

ANNUAL REPORT 2022

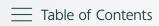
Consistently, Connected

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Key Financial Figures

3,552 Net Income

42.88% C/I Ratio

(KRW bn)

0.31%

0.30%

Credit Cost

Delinquency Ratio

195.86%

NPL Coverage Ratio

CET-1 Ratio

13.16% 10.08% **ROE**

FINANCIAL SUMMARY

| | 2022 | 2021 |
|--|-----------|-----------|
| Profitability (Unit: KRW bn) | | |
| General operating income | 10,337.9 | 9,214.2 |
| Operating income | 4,690.3 | 4,631.1 |
| Consolidated net income | 3,552.4 | 3,526.1 |
| ROA (%) | 0.66 | 0.74 |
| ROE (%) | 10.08 | 10.89 |
| EPS (KRW) | 11,803 | 11,819 |
| DPS (KRW) | 3,350 | 3,100 |
| Cost to income ratio (%) | 42.88 | 43.96 |
| Business Volume (Unit: KRW bn) | | |
| Total assets | 568,873.2 | 502,445.3 |
| (Total deposits) | 362,576.0 | 325,149.1 |
| Asset Quality (Unit: %) | | |
| Substandard & below (NPL) ratio | 0.34 | 0.32 |
| Substandard & below (NPL) coverage ratio | 195.86 | 177.26 |
| Delinquency ratio | 0.30 | 0.28 |
| Credit Cost | 0.31 | 0.25 |
| Capital Adequacy (Unit: %) | | |
| BIS capital adequacy ratio | 15.67 | 16.29 |
| Tier 1 ratio | 14.61 | 15.15 |
| Common equity tier 1 ratio | 13.16 | 13.78 |
| BPS (Unit: KRW) | 113,635 | 108,354 |

Key Non-financial Figures

No.1 Global No.1, 2022 DJSI World Index

AA MSCI ESG ratings 18.5
ESG bonds, loans, investments (KRW tn)

62,544GHG Emissions

60.9
Ratio of female employees

36
Female leaders
who completed
Hana Waves
(persons)

(Scope 1+2)

(tCO₂eq)

KEY SUSTAINABILITY FIGURES

| | | - Unit | 2022 | 2021 |
|---------------------------------|-------------------------------|-------------------------|--------|--------|
| ENVIRONMENTAL | | | | |
| Greenhouse gas (GHG) emissions | | - | | |
| Direct emissions (Sco | ope 1) 1) | - tCO ₂ eq - | 7,101 | 7,454 |
| Indirect emissions (Scope 2) 1) | | _ | 55,443 | 56,464 |
| Energy consumption 1) | | TJ | 926 | 1,311 |
| Water consumption 2) | | | 93,441 | 89,532 |
| Waste discharge ³⁾ | Recovery of incineration heat | ton | 206 | 81 |
| | Recycling | | 101 | 52 |
| SOCIAL | _ | | | |
| Total No. of employees 3) | | | 11,833 | 12,203 |
| By gender | Male | _ | 4,625 | 4,832 |
| | Female | _ | 7,208 | 7,371 |
| By employment type | Regular workers | Persons | 10,835 | 11,302 |
| | Unlimited contract workers | _ | 120 | 118 |
| | Contract workers | | 878 | 783 |
| Ratio of female employees | | % | 60.9 | 60.2 |
| Total social contribution | | KRW bn | 149.3 | 165.9 |

¹⁾ Based on figures at Hana Bank HQ, sales branches, and affiliates in the Myeong-dong building (Data range: Headquarters of HFG, Hana Bank, Hana Card, and Others)

²⁾ Based on figures at Hana Bank HQ and affiliates in Myeong-dong building

³⁾ Based on figures of Hana Bank

Stock Information

12.44
Market Capitalization

(KRW tn)

3,350
Dividend per share

27.5% Dividend payout

70.2%

Foreign Ownership

(KRW)

29.8%

Domestic Ownership

ratio

Credit Rating of Hana Bank

A+

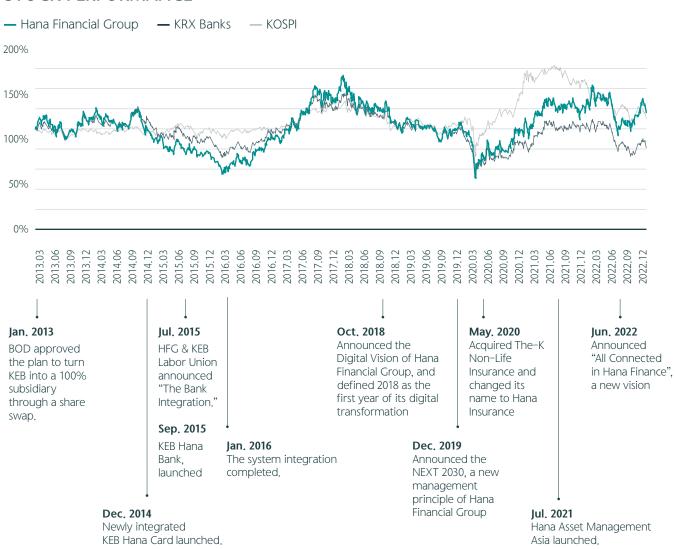
S&P Moody's

A Fitch

SHARE PRICE CHANGES

| | 2022 | 2021 | 2020 | 2019 | 2018 |
|------------------------|----------|----------|----------|----------|----------|
| High | 52,400 | 47,550 | 36,750 | 40,050 | 55,500 |
| Low | 33,850 | 32,650 | 18,450 | 31,450 | 35,700 |
| Year-end | 42,050 | 42,050 | 34,500 | 36,900 | 36,250 |
| KOSPI index (year-end) | 2,236.40 | 2,977.65 | 2,873.47 | 2,197.67 | 2,041.04 |

STOCK PERFORMANCE



Corporate Information

HANA FINANCIAL GROUP

www.hanafn.com

HANA CARD

www.hanacard.co.kr

Since its inception in 2005, Hana Financial Group has drawn on Korea's largest financial global network to become a leading global financial group. As the holding company, Hana Financial Group establishes business strategies and oversees management support to 14 subsidiaries, 29 second-tier subsidiaries, and 1 third-tier subsidiary.

Hana Card was launched in December 2014 after the integration of KEB Card (established in 1978) and Hana SK Card, a joint venture that started in 2010 between SK Telecom and Hana Bank's credit card business line, which dates back to 1992. As a market leader in digital payments, global payments, and data innovation, the company is now looking beyond carrying out mere payment settlement services, with an eye on becoming a smart life leader as a smart finance innovator.

HANA BANK

www.kebhana.com

HANA CAPITAL

www.hanacapital.co.kr

Hana Bank has grown into a megabank through a series of mergers and acquisitions, which began with the mergers of Chungcheong Bank in 1998 and Boram Bank in 1999. After merging Seoul Bank in 2002, Hana Bank acquired Korea Exchange Bank in 2015. The latest merger brought with it the nation's largest global network. A time-honored PB leader with a vast overseas network, Hana Bank is looking to be more than just Korea's top financial institution in corporate banking and foreign exchange as it strives to become a truly premier global bank.

Hana Capital joined the Group in 2005. As a specialized credit financier, the company strives to provide financial products and services tailored to the capital needs of customers. By taking advantage of the Group's extensive and advanced financial know-how and competitive edge, the company is continuously developing competitive and reliable financial products in auto finance, microfinance, and corporate finance. Through global expansion efforts into rising markets, such as Indonesia and Myanmar, and new business expansion in digital finance. Hana Capital continues to grow.

HANA SECURITIES

www.hanaw.com

HANA LIFE

www.hanalife.co.kr

Hana Securities is the unsurpassed leader in asset management with the record of being Korea's first investment trust service and setting Korea's first investment fund. The company traces its origins to Korea Investment Corporation (established in 1968), renamed Korea Investment Trust in 1977, Hana Daetoo Securities in 2007, and Hana Financial Investment in 2015, before changing to its current name in 2022. With its equity capital reaching KRW 5.0 trillion, Hana Securities became a mega-size investment bank (IB) in 2021, functioning in its pivotal role as the Group's IB operations and based on its particular strength in global alternative investments. The company leverages the Group's extensive network to serve in global financial markets as Asia's leading IB house.

Hana Life was Korea's first life insurer to introduce bancassurance products in Korea in February 2003, Since then, the company has been leading the market while also proudly contributing to the insurance industry's social safety net function with its extensive product lineup of innovative protection-type insurance. Today, the company is growing into a digital and bancassurance specialist by enhancing the customer experience with its fully digitalized customer journey that ranges from underwriting to claims payments.

HANA INSURANCE

www.hanainsure.co.kr



Hana Insurance started as an auto insurance specialist under the name The K Property & Indemnity Insurance in December 2003. The company was renamed after its incorporation into the Group as its 14th subsidiary in May 2020. In coping with the rapidly changing digital era, whose hallmarks include an aging population and a contactless transaction era, the company is emerging as a total non-life insurer that quickly and easily covers a wide variety of risks involved in our daily lives with its unprecedented insurance experience.

Corporate Information

HANA SAVINGS BANK

www.hanasavings.com

Launched in 2012, Hana Savings Bank focusses on its inherent role as a savings bank, offering productive financial services to SMEs and inclusive financial support to the underprivileged. At the same time, the bank seeks to inspire customers to do well by others and go beyond just aiming for the very best customer satisfaction through its diverse social contribution activities.

HANA ASSET TRUST

www.hanatrust.com

Hana Asset Trust was chartered as a trust in 2004 before joining the Group in March 2010. It has since grown into the industry's top trust company, with an enhanced return on portfolios and notable expansion into new business areas. Today, it is leading the domestic real estate finance market through collaborations with Group affiliates.

HANA ALTERNATIVE ASSET MANAGEMENT

www.hana-aamc.com

Hana Alternative Asset Management started in 2006 as Korea's first real estate-oriented asset manager. Since its incorporation into the Group in March 2010, the company has expanded its business domain to include special assets and private equity management. establishing itself as an alternative investment specialist. Today, with its top priority on customer value, it is growing into a top-tier asset manager on par with global standards.

HANA F&I

www.hanafni.com

Hana F&I started as a specialized credit financier in 1989. Since pivoting its line of business toward being an investment company that specializes in the management of nonperforming loans (NPL) in December 2013, the company has been contributing to enhancing the asset quality of financial institutions and to transforming NPLs into performing assets through various NPL investment and management activities. After being spun off from Hana Bank in December 2019, the company became a subsidiary of the Group and expanded its business domain to include business restructuring. Since then, the company has been evolving into a leading investment management firm in the NPL market, with diverse financial services for companies facing restructuring.

HANA VENTURES

www.hanaventures.co.kr



Hana Ventures was established in October 2018 as Korea's first financial group-affiliated venture financier specializing in new technology startups. As the Group's corporate venture capital (CVC) arm, the company aims to generate synergies with peer subsidiaries through job creation and digital transformation. As a reliable financial partner to venture startups, it sees venture startups all the way through with financial support until they can successfully grow into unicorn companies.

HANA INVESTORS SERVICES

www.hanais.co.kr



Hana Investors Services dates back to 2003, when it spun off from Korea Exchange Bank (KEB) as an administrative company specializing in funds accounting and management. Since then, it has grown as a result of its customer-oriented business operations. The company joined the Group in 2012 when KEB was incorporated into the Group. It is now faithfully fulfilling its role as a market leader in the administration management market for a broad spectrum of customer profiles, ranging from public and corporate pension services to asset managers and special accounts of insurers.

HANA TI

www.hanati.co.kr



Hana TI was first established as Hana I&S in 1990 and renamed Hana TI in 2017. As the Group's IT-specialist subsidiary, the company provides high-quality financial IT services across a wide array of financial sectors, from banking and brokerage to credit card, insurance, and capital. Most importantly, the company is playing a pivotal role in the Group-wide digital transformation initiative by leveraging its innovative tech and global expansion capacities.

FINNO

www.finng.com

Finnq was first established in October 2016 as a joint venture between Hana Financial Group and SK Telecom, with the Group holding the majority, 51%, of all shares. It became a wholly owned subsidiary of the Group in July 2022. The company provides various retail financial products, such as loans, deposits, and mutual funds, as well as stock trading services, on its mobile app, which also provides personalized recommendations concerning financial products and personal finance management services.



— CEO Letter & Presentation

Letter from the CEO

In spite of the unsettling economic landscape, Hana Financial Group delivered another record-high net profit of KRW 3,552.4 billion through business strategies thanks to our strengths in corporate finance and FX operations, as well as synergies from Group-wide collaborations.

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Firstly, I would like to express my sincere gratitude to all our shareholders and clients for the unwavering encouragement and support for Hana Financial Group.

In spite of the unsettling economic landscape, Hana Financial Group delivered another record-high net profit of KRW 3,552.4 billion through business strategies thanks to our strengths in corporate finance and FX operations, as well as synergies from Group-wide collaborations.

Hana Financial Group achieved milestone in ESG management performance, ranking at the top of the banking sector in the 2022 Dow Jones Sustainability Management Index (DJSI)—an ESG evaluation published by S&P Global. The inclusion in the DJSI World Index further demonstrated its global–level ESG leadership.

However, we are expected to face another challenging year due to ongoing global macro uncertainties. To navigate such difficulties, Hana Financial Group has developed three decisive business strategies: enhancing our business competitiveness, strengthening our global presence, and innovating digital finance.

First, we will maximize business competitiveness in investment banking, FX, and asset management, while simultaneously creating a platform for long-term growth in the non-banking sector. To this end, we will reinforce our competitiveness in asset management and insurance businesses.

Second, we will expand our presence overseas to accomplish a balanced Group business portfolio. In markets such as Vietnam, Singapore, and Indonesia, where we have already established bases, we will expand our non-banking businesses, specifically focusing on consumer finance and securities. At the same time, we will bolster risk management in preparation for heightened macro volatilities.

Third, we will strive to innovate digital finance. The digitization of finance is now inherent in all its aspects. As the success of digital finance depends on data, it is absolutely important that such data is seamlessly connected within the utilization of the Group. This is precisely why we are capitalizing on the advantages of data and mobilizing all available resources to connect data to our digital finance business.

Lastly, we aim to become an ESG leader in the financial sector.

Hana Financial Group will pave the way towards global ESG management through greater ambition and support for ESG activities on all levels. For starters, the Group is adopting K-Taxonomy in its field operations. This will extend the scope of its ESG financial support programs and investments in transitioning to a low-carbon economy.

Hana Financial Group will push ahead to become Asia's top financial company while embracing innovation. In the meantime, the Group will strive to enhance the value for all of our stakeholders by continuing to fulfill our social responsibilities. Through such efforts, we will successfully implement the Group's mission, "Growing Together, Sharing Happiness."

Thank you.

함 영주

Ham, Young-joo CEO, Hana Financial Group — CEO Letter & Presentation

Interview with the CEO

Our focus is on building a competitive business portfolio while reinforcing core competencies in global and digital operations for greater corporate value.

GROUP VISION

Q1 Please elaborate on the new vision you declared in 2022, "All connected in Hana Finance."

Our new vision incorporates three key concepts: ① all-inclusive finance that benefits everyone; ② connecting time, space, the future, and value; and ③ in Hana Financial Group's own unique way.

As a means of achieving this vision, we have established the mid- to long-term strategic goal of "O.N.E. Value 2030" and set our goal at transforming ourselves into a value-oriented financial group in our own Hana Way, departing from simply pursuing sizeable growth.

Our Value-Customer Value means our commitment to becoming the most customer-centric financial group by connecting everything that customers need.

New Value–Social Value connotes our pledge to become the most trusted financial group for ESG management that delivers happiness to all members of society.

Lastly, **Extra Value–Innovation Value** refers to our unwavering determination, which is reflected in the strategic goal to become the most innovative financial group that creates better value by securing cross–industrial future capabilities.



BUSINESS STRATEGIES

Q2 Please outline your 2023 business strategies.

In 2023, we will expand our business portfolio by 1) enhancing our business competitiveness, 2) strengthening our global presence, and 3) innovating our digital finance.

First, we will further enhance our business competitiveness through our strengths in investment banking (IB), FX, WM, capital business, and trust management. At the same time, we will be expanding the scope of our business domains into non-banking sectors through active partnerships and investments in mobility, healthcare, and crypto assets.

Second, we will leverage our strengths to make global operations one of our core businesses. We will solidify our global presence in the rapidly changing global economic environment based on differentiated approaches by region and industry.

Third, our digital financial innovation involves upgrading our infrastructure and working tools for better convenience of customers and improved work efficiency for employees. We will achieve this through active cross-industry partnerships and investments while proactively adapting to a new digital evolution, such as Web 3.0.

"I am deeply honored and humbled to have been entrusted with the responsibility to lead Hana Financial Group and work to create a new roadmap for our company at this critical juncture in global financial industry."



NON-BANK

Q3 What are your plans to reinforce your nonbank business competencies?

The Group is considering various options, including organic and inorganic growth strategies for bolstering our non-banking business. Our focus is on building a competitive business portfolio while reinforcing core competencies in global and digital operations for greater corporate value.

As a financial group, we pursue long-term growth and better shareholder value by enhancing non-banking business competencies. In light of this, we are weighing our strategic priorities to strengthen our competencies in pension/insurance, asset management, payment settlements, and capital markets.

However, given the uncertain economic outlook and limited resources, we will not become fixated on size-driven M&A attempts. Rather, we will prioritize value-driven growth that can contribute to the improvement in Group's ROE and market competitiveness. As such, we will maximize efficiency in our capital management and minimize potential risks toward sustainable growth.

"Hana Financial Group will push ahead to become Asia's top financial company, while embracing innovation. I will further enhance corporate and shareholder values to my best ability."

SHAREHOLDER RETURN

Q4 What changes should we expect in your new shareholder return policy?

Hana Financial Group always exerts every effort to diversify shareholders' return policy and improve our shareholder return ratio.

Specifically, our dividend yield reached 8% in 2022 as dividend per share (DPS) continuously increased over the past few years. Also, given that our price-to-book ratio (PBR) is lower than that of KOSPI or financial stocks traded overseas, it would be better to combine share buyback with cash dividends to enhance shareholders' value.

Share buybacks, in principle, are followed by cancellation. Therefore, we will maintain a balance between dividend payouts and buybacks by comprehensively considering the financial market conditions, such as our stock price, capital adequacy, and interest rates at the time of implementation.

Even if the proportion to share buyback increases, we intend to maintain DPS, emphasizing sustainability as the core value of our shareholder return policy.

PROFITABILITY

Q5 What is your view of the ROE level attainable by the Group from a mid- and long-term perspective?

As ROE is one of our key performance indicators at the Group, our goal is to maintain it above 10% through stable profit growth and an adequate level of capital.

To that end, it is essential to secure a stable revenue stream through balanced business portfolios between banks and nonbanks as well as through the continuous expansion of core business capabilities, such as digital and global.

In addition, we will strive to improve cost/income ratios at an appropriate level while also containing credit costs through more proactive risk management practices.

— Key Business Operations

Digital

Hana Financial Group will continue to expand its DT coverage across its products, services, and processes.

Q1 Please describe your achievements in 2022–digital channel development, virtual channel performance results to do with credit/jeonse/mortgage loans–and key digital innovation plans for 2023.

At Hana Financial Group, digital transformation is taking place in three phases: DT 1.0 started in 2019 with process innovation, including robotic process automation (RPA) and work process streamlining, as well as establishing a paperless workplace; DT 2.0 began in 2021 and focused on building the infrastructure–setting up the DT task force team, improving the work process and corporate culture, and increasing nonface–to–face product coverage; and now we are working towards the DT 3.0 era, when the DT initiative is growing at the Group–wide level in pursuit of a competitive edge in future business operations.

In fact, Hana Bank's sales performance in non-face-to-face products is the centerpiece of our 2022 DT performance results. Specifically, 74,576 accounts, or 66% of mortgage loans, were completed online (as of Q4 2022). Since going fully digitalized in August 2021, the 1Q Apartment Loan (mortgage loan) sold 1,703 accounts (KRW 232 billion) in 2022, leading the sales growth of digital mortgage loans, despite the downturn in the housing market. As for savings and time deposits, 73% of its total sales, or 785,473 accounts, were handled through digital channels, while mutual fund products sold 25,133 accounts, or 88.2% of fund sales, via non-face-to-face channels-indicating a solid performance in non-face-to-face product sales.

Hana Financial Group will continue to expand its DT coverage across its products, services, and processes. At the same time, the Group flagship app, Hana 1Q, will be upgraded to become a universal banking app which provides all services offered by the Group on a single platform. Furthermore, better RPA performance is expected to be delivered on the back of Alengineered call centers (AICCs) going into full operation for Hana Bank and Hana Card customers as of 2023.

In 2023, Hana Financial Group will continue with collaborations and timely execution of all digital innovation initiatives to generate tangible outcomes that will benefit both customers and employees.

2023 DIGITAL INNOVATION STRATEGIES

 Substantial digital innovation firmly rooted in our strong competitiveness in the main business
 (Driving digital innovation for the benefit of customers and employees)

2023 DIGITAL BANKING INNOVATION PLANS

For Customers

Strengthening Our Basic Financial Services for Core Customers

- Reinforcing the digital WM service on the strength of the Group's WM capabilities to secure market dominance
- Pooling BaaS (Banking as a Service)-based alliances to preempt the high-growth SOHO/SME markets
- Connecting the newly completed in 2022 Al-based call centers to the network of offline branches and online digital channels for a seamless customer management system, and expanding into specialized financial services based on our accumulated financial know-how

For Employees

Field-Based Process Innovation at Branches

- RPA and work efficiency-enhancing initiatives to help employees focus on sales-oriented value-added work
- Providing differentiated sales tools that combine digital tech with the human touch, such as ODS (outdoor services)

For Digital Infrastructure

Expansion of Business by Utilizing Digital Technologies

- Collaborating with the Hana Institute of Technology, the Group's technology think tank, to upgrade new tech-embedded financial services
- Strengthening the ICT core infrastructure through the bank's next-generation IT System Integration Project (Project ONE)

Q2. Please elaborate on your plans to upgrade "Hana 1Q" to a total wealth management app and "1Q Pay" to a life-friendly platform.

As seen in the recent financial regulatory changes that took place with the introduction of the MyData, Open Banking, and Open Pay services, cross-industry convergence of finance with high-tech is breaking down the Chinese wall between industries to bring all assets scattered in different industries together into a single platform for the quick check and management of personal assets. Thus, rapidly advancing technologies are seeping into the new concept of digital assets to diversify the asset types.

Against this backdrop, Hana Bank is expanding the scope of assets that can be accessed and managed on its Hana 1Q app to realize a comprehensive digital solution for customers to check and manage their diverse assets, including payments, investments, insurance, and innovative financial products, as well as banking products. Furthermore, Hana 1Q app will become a comprehensive financial platform for personal wealth management, offering personalized UI and solutions based on the understanding of customer context to provide a truly unique customer experience.

In 2022, Hana Card upgraded its signature app, 1Q Pay, thereby taking a step forward as a life-friendly finance platform. In addition to the payments/settlements, the main functions of a credit card app, it added special features, such as overseas services, life-friendly services, and VIP services, as well as banking, asset/expenditure management, and Hana Money point redemption. The app is particularly unique in terms of customer convenience, as its services are accessible even to guests who do not have a Hana Card to make payments and money transfers through a Hana Money-linked account.

In 2023, 1Q Pay is differentiating its unique services by expanding the scope of services based on consumption patterns and propensity analysis. The data-based dining recommendation service called AI Restaurant is upgrading its services and adding new features, such as credit scoreenhancing and insurance portfolio review services. At the same time, the 1Q Pay app will further improve the speed, simplify UX writing, and make the UI more intuitive and easier to navigate, achieving higher customer satisfaction.

Q3 Hana Financial Group is expanding its partnerships and investments with third parties, as seen with the launch of the NAVER Pay Money Hana Bank Account. Please tell us about your 2022 achievements and plans for 2023.

The disruptive changes that the financial industry has witnessed lately have set a new tone in the financial landscape-crossindustry partnerships between legacy banks and big tech/ fintech firms. Hana Financial Group has also established an allaround collaboration network to expand its alliances and investments. First, the Group signed an MOU with Com2uS Group in March 2022. Under the agreement, the two parties are working together to establish a financial infrastructure in the metaverse platform Com2verse to make financial services accessible even in the virtual world. Also, it entered into a strategic partnership for win-win growth with SK Telecom in July 2022. This partnership pursues future cooperation projects based on finance-ICT convergence in six main areas: ESG cooperation for expanding its social roles; digital transformation of finance; exploring new business models in the convergence of financial and telecommunication data; customer-specific product services for service convergence; sharing mutual infrastructure; and digital-based joint marketing. Furthermore, Hana Financial Group concluded an MOU with NAVER Financial for innovative financial services in September 2022. Two months later, it launched the NAVER Pay Money Hana Account product under that same partnership. Designated as one of the most innovative financial services by the Financial Services Commission, the product is a prepayment product that deposits a user's money through their Hana Bank account, which even pays interest on the deposited amount. This innovative financial product sold more than 240,000 accounts in only two months of being in service (as of December 2022), creating a sensational impact on the market. Additionally, Hana 1Q Agile Lab, Hana Bank's startup accelerator program, served as a venue for collaborations with diverse fintech firms while both nurturing startups and expanding foundation for digital alliances.

In addition, it has been expanding digital new tech investments. In May 2022, the Group established the KRW 300 billion Hana Beyond Finance Fund to invest in innovative technology firms. With all these consistent endeavors, Hana Institute of Technology, the Group's big data and Al-specialized R&D affiliate, is leading the Group-wide drive of internalizing innovative technologies.

A SNAPSHOT OF HFG'S 2022 — Digital

66.0%

Digital mortgage loans ratio

3.0

Digital Transformation 3.0 Era

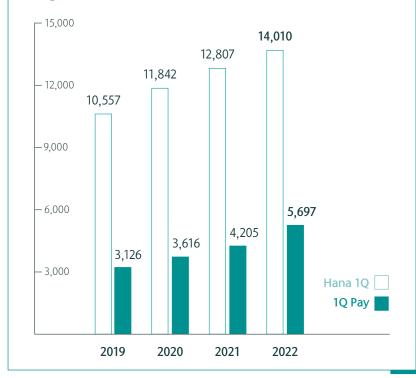
212.0

1Q Apt Loan (KRW bn)

19,707

Number of digital platform subscribers (In thousand)

Digital Platform Subscribers (Cumulative)



— Key Business Operations

Global

The Group set key strategies for its operations around the world at what we call "Global A.C.T.

(Accelerate, Collabo, and Take-off)"



Q1 Please describe your achievements in 2022 and your key strategies for 2023 with regard to strengthening your global presence.

In 2022, Hana Financial Group achieved an overseas income of KRW 712.7 billion, a YoY increase of KRW 25.6 billion, or 3.7%. Although gains on valuation rose YoY KRW 46.1 billion, or 33.6%, to reach KRW 183.1 billion, overseas channels, including the overseas subsidiaries, posted a net income of KRW 290.7 billion, down YoY 6.5%, or KRW 20.1 billion. Investment income from global investments also declined slightly by YoY 0.2%, or KRW 0.4 billion, to KRW 238.8 billion.

The main reason for the decline in net income in global channel operations can be attributed to the large amount of provisions set aside for preemptive risk management against the Chinese government's zero-COVID drive, such as the write-off of non-performing loan (NPL) assets of Hana Bank (China) Co., Ltd. The increased gains on valuation were driven primarily by the steady growth in the gains on valuation from the Bank for Investment and Development of Vietnam (BIDV) thanks to its robust performance results, which was large enough to offset the KRW 42.8 billion loss on stock forward contract incurred from Hana Securities' investments in BIDV Securities Company (BSC).

In 2023, Hana Financial Group aims to strengthen the fundamentals of its global network, maximize cross-sector collaborations among affiliates, and discover new growth drivers for global operations to establish a virtuous cycle of global growth. To that end, the Group set key strategies for its operations around the world at what we call "Global A.C.T. (Accelerate, Collabo, and Take-off)."

Secondly, Collabo denotes its plans to develop more collaborative initiatives among affiliates in strategic markets for the Group, such as Vietnam, Indonesia, and Greater China. In the long run, the Group will pursue cross–sector and cross–industry collaborations as the foundation for a global financial value chain that ranges all the way from sourcing to product development and sales.

Lastly, Take-off speaks to the Group's full-scale entry into non-bank businesses and strategic alliances in Southeast Asia. This began in 2022 with its strategic investments for a partnership

with BSC, which helped us enhance its position and develop new projects in the Vietnamese market. While closely monitoring global economic developments, the Group is also now exploring new investment opportunities in promising industries in Southeast Asia, such as in the areas of brokerage services, consumer finance, and payments.

Q2 Please explain the current status and future plans for both the bank and nonbank affiliates' overseas expansion efforts.

As of the end of 2022, Hana Financial Group was operating 206 networks in 25 regions, six networks down from the previous year. Most importantly, Hana Bank became the first Korean bank to open a branch in Taipei in April 2022. This marked not only a successful entry into Taiwan but also the completion of a network connecting all ten of Korea's major trading hubs. It is also meaningful that the Group contributed to better serving the long-standing financial needs of Korean companies and residents in the country in a more convenient way. In the future, through an aggressive localization strategy and collaborations with affiliates, the Taipei branch is highly expected to play a key role for the Group's IB and corporate banking business in Asian markets.

Hana Securities completed the acquisition of a 35% stake in BIDV Securities Company (BSC) in September 2022. As BSC's second-largest shareholder and strategic partner, Hana Securities supports its Vietnamese partner's digital transformation and new business advancement. BSC is now trying to transform itself into a mobile-based, digital-oriented brokerage house by renewing its digital platform. At the same time, it will support the companies in entering into new businesses, such as wealth management, in response to the expected market demand, which will obviously increase in tandem with the country's economic growth. The Group aims to grow the company into one of the top three brokerage houses in Vietnam by 2030.

Looking ahead, Hana Financial Group will strive to carry on its outstanding global business performance and bolster its market position as a leading global group through a two-track approach to global markets by region. As such, the Group will pursue global expansion in the advanced markets of the

Americas and the eurozone through strategic partnerships and by building our IB and corporate banking capabilities. Meanwhile, the Group is taking a different strategy for the high-growth markets of Southeast Asia, where it will accelerate overseas expansion through M&As and equity investments, mainly in non-banking businesses.

The Group is also expanding its global presence in the non-banking sector, such as brokerage services, consumer finance, and asset management, in high-growth Asian markets, including Indonesia and Vietnam. In fact, the Group launched an asset management arm called Hana Asset Management Asia Pte. Ltd. (HAMA) in Singapore in 2021. Based on its plans for investments in various alternative investment assets to diversify the Group's revenue stream, with a focus on Southeast Asia and Oceania, HAMA will grow into the Group's asset management hub for Southeast Asian markets. Furthermore, the company will strengthen its asset management capabilities while also seeking collaborations with competitive local asset managers to set up private equity/venture capital funds.

In addition to the asset management and brokerage businesses, the Group is also considering advancing into the consumer finance industry in Indonesia and Vietnam, where strong GDP growth is expected. Also, the Group is currently in the midst of conducting market research, with several expansion plans. The plans being reviewed include leveraging the local networks of Hana Capital, Hana Card, BIDV, and PT Bank KEB Hana Indonesia to acquire a local microfinance company in Indonesia or to set up a joint venture with a local consumer finance company in Vietnam.

Q3 Hana Financial Group has been successfully expanding its global digital business operations through the expansion of GLN services and the launch of loan products from LINE Bank in Indonesia. Please walk us through these accomplishments and any future plans you may have.

Hana Financial Group has anchored its global business strategy in digital transformation and has been striving to provide high-quality services to customers through infrastructure development and diversified digital channels.

For instance, the Group launched LINE Bank, an Indonesian internet-only bank, in June 2021. Since then, the bank has attracted 540,000 new customers, opened 770,000 new demand deposit accounts, issued 380,000 debit cards, and recorded a deposit of 697.8 billion Rupiahs (approximately KRW 56.5 billion). The bank then gained significant brand recognition in Indonesia when it was selected as one of Indonesia's Global Top 100 Digital Banks and a Consumer Pick Top 3 Brand in its first year of operation.

In June 2022, the bank introduced mobile non-secured loan product as part of its retail business expansion. Going forward, more sales growth is expected from a greater inflow of monthly active users (MAU) thanks to the bank's strategic expansion of alliance channels and product portfolio diversification.

GLN, which was established after its spin-off from Hana Bank in July 2021, embarked on its own business operations as of July 2022 when it formed a cooperative body with domestic and foreign financial institutions. The company provides QR code-based overseas mobile payment services that allow the users of the alliance's apps-Hana Bank's Hana 1Q, Hana Card's Hana Money, and Toss-to make payments at GLN partner merchants in nine countries/territories (Thailand, Taiwan, Japan, Singapore, Hong Kong, Vietnam, Laos, Guam, and Korea). In the near future, KB Bank and Kakao Pay will join the service alliance for Korean users. Through this overseas expansion plan, the GLN service will be accessible to global users from more than six new national and regional partners, including Taixin Bank in Taiwan, by the end of 2023.

The payment service coverage will also be expanded to China, Cambodia, the Philippines, Malaysia, Indonesia, Macau, and Mongolia. ATM service will also be extended to cover Taiwan, Thailand, and Singapore. On top of that, the Group will step up the expansion of its alliances with banks, payment service providers, and retailers of key strategic markets worldwide to further consolidate its market leadership in the global QR payment/cash withdrawal platform business.

A SNAPSHOT OF HFG'S 2022 — Global

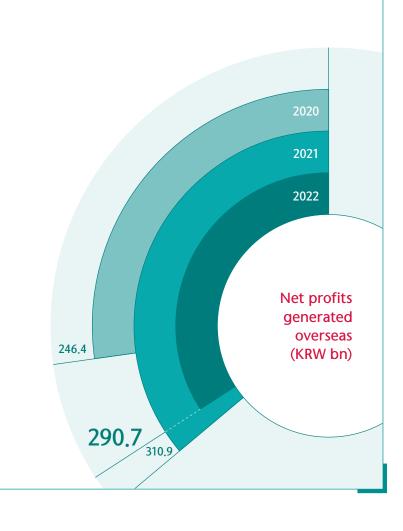
712.7

Total profits generated overseas (KRW bn)

290.7

Net profit contribution from global operations (KRW bn) 206

Number of overseas networks



— BOD Letter & Presentation

Letter from the Chairman

Dear Honorable Shareholders,

I would like to express my sincere gratitude for your consistent trust and support for Hana Financial Group.

2022 was a year when both domestic and overseas economic uncertainty and volatility expanded rapidly. In such an unpredictable business environment, the Board was striving to ensure sustainable growth, risk management, and enhanced value for all stakeholders, including our shareholders.

In 2022, the Group achieved a record-high net profit of KRW 3,552.4 billion and showed stable performance improvement

In 2022, the Group's annual net profit was KRW 3,552.4 billion, up by 0.7% from the previous year. Amid a favorable interest rate environment, robust asset growth continued, and cost efficiency improved significantly with the C/I ratio reaching 42.9%, the lowest level since the establishment of the Group's holding company. In addition, our pre-emptive risk management helped the Group maintain the key asset quality metrics, such as credit cost and delinquency rate at a benign level and reinforced the ability to absorb losses against potential risks. Accordingly, the Group's annual ROE achieved above 10% and its CET-1 ratio reached 13.16%, which indicates the Group has secured sufficient capital adequacy compared to the ratio required by relevant regulations.

The Group announced a new capital management and shareholder return policy in an effort to increase the visibility of the Group's capital management policy and enhance shareholder value

The Board has long been contemplating how to enhance shareholder value, and accordingly announced a new capital management and shareholder return policy in February 2023. We set the appropriate target levels for CET-1 ratio as in between 13% and 13.5%, while establishing a specific principle that capital exceeding the target level would be used as a resource for shareholder return. In addition, for a progressive achievement of the shareholder return rate target of 50%, we are planning on pursuing diversification of the shareholder return policy by utilizing both dividends and share buyback/cancellations. As part of this plan, the Group's dividend payout ratio reached 27,5% for the



"The Group BOD has continued its efforts to consolidate a transparent and fair corporate governance structure to achieve the sustainable development of the Group."

- Kim, Hong-jin, Chairman, Hana Financial Group

common shares in 2022, which is the highest among the domestic peers, and a resolution was adopted to purchase and cancel treasury shares worth a total of KRW 150 billion in February 2023. We will strive to implement efficient capital management and deliver a predictable shareholder return so that we can share the fruits of growth with our shareholders.

BOD Letter & Presentation

Letter from the Chairman

To effectively address the risks of climate change, Hana Financial Group completed setting the roadmap and joining global initiatives. In recognition of such commitment, the Group earned merits from various global ESG evaluation institutions

With the aim of growing together with stakeholders, the Board has made various efforts through the "Sustainable Management Committee" to create environmental and social values and improve corporate governance. In 2022, the Board resolved the "2050 Carbon Neutral Achievement Plan" and developed a specific roadmap based on the Science Based Target (SBT). On this basis, the Group moved further to join the Net–Zero Banking Alliance (NZBA) and became the seventh Korean company that acquired an official certificate from the Science Based Target Initiative (SBTi). Finally, the Group received the world's highest score in the financial industry in the 2022 S&P Dow Jones ESG evaluation and was included in the DJSI World Index. Also, in the MSCI ESG evaluation, the Group's rating improved for two years in a row, indicating that its leading ESG performance has been officially recognized by external institutions.

In line with the ESG framework centered on society, the Board is trying to practice "finance that grows together and shares happiness" as set out in the Group mission

In particular, we focus on how to expand diversity and inclusiveness to address social imbalance that our society is facing. As part of our efforts, we joined the UN Women's Empowerment Principles (WEPs) to support gender equality. In addition, in order to foster various female talents and expand the number and roles of female leaders, we are running "Hana WAVEs," a program aiming to develop next–generation female leaders endorsed by the CEOs from each subsidiary of the Group. Another Group program, "The 100 Child Daycare Centers Construction Project," which symbolizes our continued efforts towards contribution to society, will be completed in 2023. We will continue to take further actions, such as remodeling old daycare facilities. We are also operating "Hana Power–On Program" to reduce social inequality and are implementing various projects such as youth internship support, startup support, and housing support for single mothers.

The Group BOD has continued its efforts to consolidate a transparent and fair corporate governance structure to achieve the sustainable development of the Group

Hana Financial Group's BOD consists of 10 members, including 8 independent directors, 1 executive director, and 1 non-executive director. In order to guarantee the independence of the BOD and its supervisory function over all executives, the chair of the Board has been appointed among the independent directors, separate from the Group CEO, since 2010. All the directors on the Board contribute their extensive experience and expertise in their respective specialties-from banking, business administration, economics, and finance/accounting to legal and ESG-to BOD operations while upholding diversity and inclusiveness within the organization. Although the Group has only one female independent director on the Board at this juncture, it has plans to raise the percentage of female members up to 25% of the BOD by 2025 to further promote gender diversity.

On behalf of my fellow board members, I would like to reiterate our deepest gratitude for your continuous support of the Group. Hana Financial Group will continue "Growing Together, Sharing Happiness" with shareholders and customers through our commitment to inclusive finance.

Thank you.

Kim, Hong-jin

Chairman, Hana Financial Group

— Environmental Management & Social Contributions

Chair of the Sustainable Management Committee



Won, Sook-yeon
Chair of the Sustainable
Management Committee,
Hana Financial Group

Q1 Please explain the purpose, authority, and responsibilities of the Sustainable Management Committee, as well as major achievements and activities in 2022.

Hana Financial Group's Sustainable Management Committee formulates Group-wide strategies and policies for promoting the Group's transition to a low-carbon economy and achieving transparent and responsible management, as well as social contribution through finance. It also oversees Group-wide ESG activities.

Particularly, the committee approved the Hana Financial Group Sustainable Finance Framework and established the standards for managing the Group's performance of ESG financing in 2021. In April 2022, the committee then approved the Group's 2050 Net Zero Roadmap and ESG initiatives, which set out the plans to join the SBTi (Science–Based Target initiatives), NZBA (Net–Zero Banking Alliance), and UN WEPs (UN Women's Empowerment Principle). Specifically, the Group's 2050 Net Zero Roadmap states the Group's commitment to Net Zero not only in terms of operational emissions but also financed emissions, as per the SBTi standards.

Accordingly, the Group joined the NZBA and UN WEPs in the first half of 2022 and became the seventh Korean company to have its net zero plan endorsed by the SBTi in October. All of this significantly enhanced public appreciation of the Group's ESG commitment. In particular, the Group transparently disclosed the results of strengthened risk management, HR management to embrace diversity, calculation of financed emissions, and climate risk scenario analysis results. As a result, the Group received the world's highest score (87 points) in the financial sector in the 2022 S&P Dow Jones ESG Evaluation. Its MSCI ESG rating was also upgraded to AA, a clear indication of the global recognition of its ESG commitment.

Hana Financial Group's Sustainable Management Committee holds regular meetings twice a year, but it can also convene additional meetings when needed. All four independent directors on the committee are also members of the Audit Committee, allowing for audit activities to be conducted from an ESG management perspective. The Audit Committee held a total of 12 meetings in 2022.

Q2 What are the Sustainable Management Committee's 2023 plans?

Hana Financial Group is well aware of climate change, one of the most pressing global issues. The Group is following the lead of the SBTi to reduce its carbon emissions while also encouraging its employees to participate in the Group's commitment to environmental management. In fact, the Group keeps a close eye on its financed emissions and regularly identifies the financial impact of climate risks. In this way, the Group is internalizing the climate risk management system to consistently monitor its responses to climate change.

The committee plans to identify the financial impact of deforestation and coastal ecosystem destruction to provide a managerial environment that allows studying the biodiversity-related financial impact assessment methodologies that the Group needs to manage going forward. In addition, the committee has prioritized inclusiveness and diversity for 2023 and is taking the initiative to address issues concerning social inequality.

Q3 Please explain the Sustainable Finance Goal plans, including measures to prevent greenwashing.

In 2021, Hana Financial Group set its goal called 2030 & 60. Since then, it has promoted to set committed a total of KRW 60 trillion for funding and lending sustainable finance projects. Of that total commitment, KRW 18.5 trillion had been executed by the end of 2022.

The Group's sustainable finance performance is managed under the Hana Financial Group Sustainable Finance Framework, which the Group instituted in 2021 for ESG finance performance management purposes to prevent greenwashing. In 2023, the operational system will be further improved as the K-Taxonomy is being incorporated into the Framework and reflected in the IT system for corporate lending.

At the same time, the Group's flagship subsidiary, Hana Bank, joined the Equator Principles in August 2022. Since then, the Group has devised its Environmental Social Risk Management (ESRM) system based on the Equator Principles and applies the system to all new large–scale project financing. The ESRM system mandates the preliminary assessment of environmental and social impact prior to the approval of any large–scale projects.

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— Environmental Management & Social Contributions

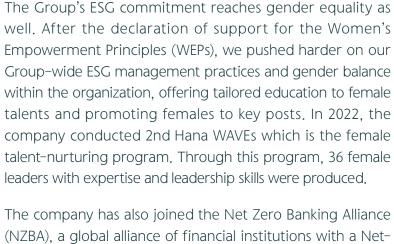
ESG Presentation

Strengthening ESG management and expanding participation in global initiatives

Q1 Tell us about your key ESG management activities in 2022.

In 2022, Hana Financial Group drew up its net-zero roadmap, which was then verified by the Science Based Targets initiative (SBTi) in October. Under the goal of reaching net zero by 2050, we laid out our interim goals according to the SBTi requirements as follows:

- ▲ Cutting down on operational emissions by 42% of the base year (2020) level by the end of 2030, and 75.4% by the end of 2040
- ▲ Slashing financed emissions from assets subject to the sectoral decarbonization approach (SDA) by 32.8% of the base year (2022) level by the end of 2030 and by 64.6% by the end of 2040



The company has also joined the Net Zero Banking Alliance (NZBA), a global alliance of financial institutions with a Net-Zero goal by 2050, to fulfill its role as a responsible financial company committed to carbon neutrality.

The Group's mission, "All Connected in Hana Finance," is carried out through a wide range of ESG campaigns involving our employees and customers.

The Good Tumbler campaign encourages people to use a tumbler on a daily basis; the Cool & Cool Closets campaign is a clothing donation campaign; the Love, Hana, Autism Race is a charity marathon to enhance public awareness about autism and create a culture of respect for the disabled; and employees and customers participated in a kimchi donation campaign on 2022 Hana Together Day.

Aside from these regular campaigns, Hana Financial Group does whatever it can when needed to address social issues and help the underprivileged. In 2022, we extended a helping hand for relief and recovery efforts in communities stricken by wildfires on Korea's east coast, made monetary donations to support the recovery from damages caused by torrential downpours, and raised funds for year-end charity events.

Q2 Can you provide some hard facts that back up your accomplishments in 2022?

One of the most conspicuous accomplishments in ESG would be our debut on the DJSI World Index, simultaneously making it at the top of the global banking industry in the DJSI ESG evaluation. Topping the global ranking of DJSI, one of the world's most renowned ESG assessors, speaks volumes of the Group's world-leading accomplishments in ESG management.



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The Group also earned a AA grade in the MSCI ESG evaluations, further heightening its respected position as a global ESG leader.

On the domestic front, Hana Financial Group has been building daycare centers under its 100 Child Daycare Centers Construction Project since May 2018 in a bid to contribute to industrial decentralization and to reinforce public education infrastructure. In particular, our 58th daycare center opened in the Cheongra Hana Dream Town in Incheon in May 2022. Named the Cheongra Win-Win Hana Finance Joint Workplace Daycare Center, it is in fact the largest workplace daycare facility in Korea. As of the end of December 2022, construction on the 66th center had been completed. Hana Financial Group is steadily carrying out social value creation projects to ensure inclusive social welfare. In addition to constructing and donating national and public daycare centers in depopulated rural areas such as Heuksando Island, Cheongsong, and Gunwi-gun, we have also constructed and donated 18 more daycare centers for children with disabilities.

"We will increase the usability of information by proactively introducing investor-required global ESG disclosure standards."

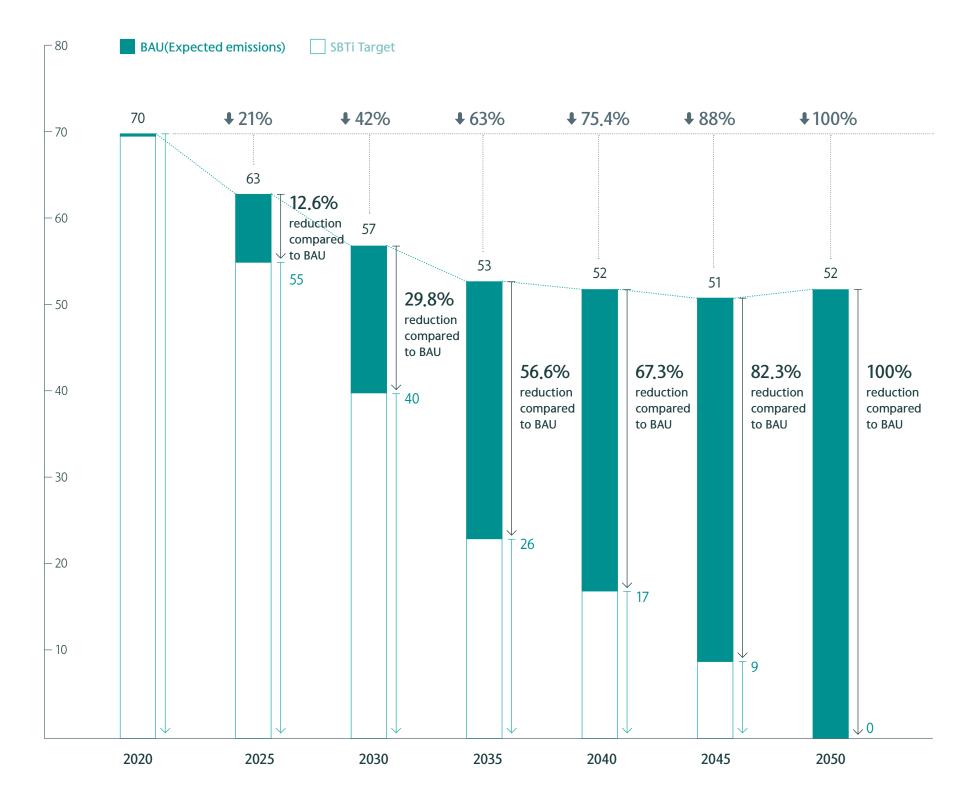
- Yang, Dong-hoon, Independent Director

In 2022, the Group placed its priority on the "social" aspect in ESG management initiatives. The Group's signature social value creation program "Hana Power–On" consists of three subthemes: Challenge is about job creation; Care is about supporting the underprivileged; and Community is about giving back to local communities through sports clubs and digital channels.

These activities were recognized when we received several awards and commendations from various entities. The Group's job training and internship program for the financial independence of single mothers and adolescent parents was the recipient of the Chairman's Award in the social sector of

Carbon Neutrality Roadmap of Business Sites (Scope 1+2)

(Unit: 1,000tCO₂eq)



^{*} Depreciation cost is calculated in the straight-line method and target levels are connected linearly

^{**} Currently, only the reduction targets for the next 15 years from the base year and the carbon neutral target for 2050 are presented in the SBTi

A SNAPSHOT OF HFG'S 2022 — ESG

2030 & 60

Supplying KRW 60 trillion through ESG finance by 2030

Zero & Zero

Reduce the financing of coal-related project to zero and leaving no carbon footprint throughout

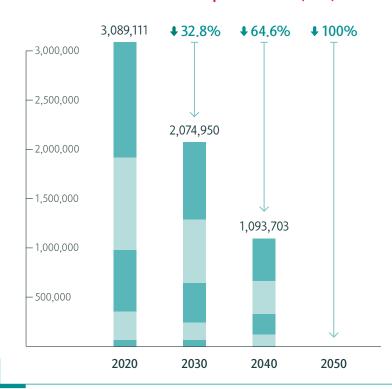
No.1
The world's No.1

bank in DISI

66

Opening completed of 66 daycare centers

GHG Reduction in the Group's Portfolio (SDA)



living together at the Together Corporate Awards & CSR Film Festival organized by the Financial Services Commission. Our commitment to improving the living conditions for the socially vulnerable, such as single mothers and abused children, was also singled out when it won the Future Happiness Award from the Ministry of the Interior and Safety. With respect to the Hana Social Venture University Project, it is a youth job creation and startup accelerator program which earned the Labor Minister's Award for outstanding performance in the youth-friendly enterprise ESG Project Evaluation by the Ministry of Employment and Labor.

Q3 Please walk us through Hana Financial Group's mid- to long-term ESG vision, strategy, goals, and the status quo, as well as achievement plans.

Hana Financial Group is implementing mid- to long-term ESG strategies through two goals and under the ESG vision of "Big Step for Tomorrow," which represents our commitment to take a big step forward in pursuit of a sustainable future.

The two goals are 2030 & 60 and Zero & Zero. The 2030 & 60 reflects our determination to reach KRW 60 trillion in an ESG finance balance by 2030, while Zero & Zero is connected to our commitment to achieving net zero in both operational emissions and coal–powered project financing.

To attain these goals, the Group is engaging in myriad financial support programs. First of all, we have issued ESG bonds to accelerate the transition to a low-carbon economy and to a shared growth society. The raised funds are being invested in eco-friendly energy projects, such as renewable energy, and addressing social issues, including job creation.

"We will do our best to achieve carbon neutrality by 2050 based on these emission reduction targets."

- Ham, Young-joo, Executive Director

Domestically, we have performed a climate risk analysis that looks into our major corporate loans for their correlation with carbon emissions to sort out industries with high carbon intensity. We then calculated the estimated future carbon costs using scenarios developed by the NGFS (Network of Central Banks and Supervisors for Greening the Financial System) to predict volatility in default probability. These represent just part of our endeavors to reflect climate risk management and disclosure, as well as climate change mitigation, into our financial decision–making process.

Additionally, we are working on an IT system for asset management in line with the new K-Taxonomy (a national green classification system that regulates eco-friendly economic activities). Also in the works is an ESG consulting service for SMEs that will diagnose the current status of ESG management practices at SMEs to encourage their ESG competency-building and provide education programs and solutions tailored to their individual conditions. These will ultimately facilitate our efforts to transparently manage our ESG financing performance and attain the Group's ESG goal of 2030 & 60 (for ESG financing) and take the lead in transitioning to a low-carbon economy.



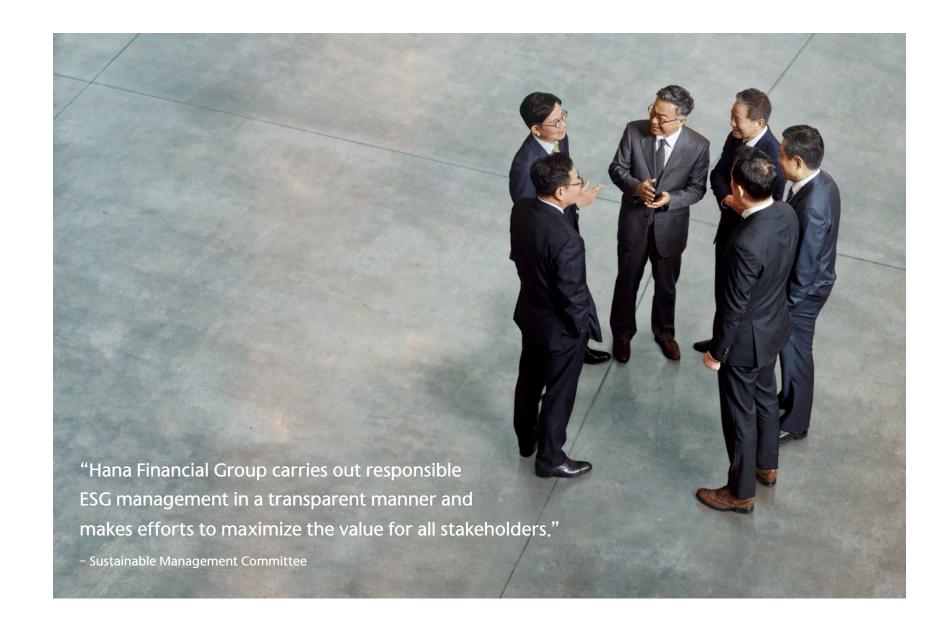
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Q4 Please tell us about the Sustainable Management Committee's activities in 2022 and plans for 2023.

Hana Financial Group's Sustainable Management Committee is a subcommittee of the Board of Directors that was established to set directions for Group-wide sustainability management and effectively identify and proactively enhance ESG management practices and social value creation activities. At the same time, it oversees our Group-wide ESG management performance. In 2022, the committee convened two meetings to deliberate and resolve issues related to formulating the Group's sustainability management strategies and policies, as well as the implementation of sustainable management initiatives. It also drew up the Group's 2050 Carbon Neutrality Roadmap and finalized decisions to join global initiatives such as the SBTi, NZBA, and UN WEPs.

In 2023, the committee will resolve to join the TNFD (Taskforce on Nature–related Financial Disclosure). It also plans to resolve the amendment to the company's Sustainable Finance Framework, the Group Diversity Roadmap, and report on plans to address ESG material issues. Furthermore, the committee has plans in place to provide independent directors with an ESG education session on the trends and response strategies of global sustainability reporting standards.

Furthermore, we will continue to expand our ESG management disclosure and participation in global ESG initiatives to increase communication with stakeholders and transparently disclose our ESG management performance results to build up our capabilities as a trusted ESG leader, which will in turn enhance our corporate value.



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Vision & Mission

In 2023, the post–pandemic market environment, which looks to be mired in high interest rates, high inflation, and high exchange rates, is forecast to suffer multi–faceted macro uncertainties for the first time in ten years. In a bid to deal with imminent crises–and turn them into opportunities for growth, Hana Financial Group set the slogan for the 2023 key strategies as "ACT NOW."

1. Corporate Culture

Happy employees make for happy customers–two equally powerful forces that propel any flourishing business. That is why the Group is building a truly great workplace, one where hard work and dedication are rightfully recognized and compensated fairly, and somewhere everyone can reach their full potential, all while supported by a resilient corporate culture of collaboration.

2. Business Strategies

Hana Financial Group plans to expand its business domains based on the strengths of its field sales, wealth management, and offline channel network. Furthermore, we are upgrading the Group's digital platform, bolstering the seamless connection of on– and off–line channels, while also building infrastructure for enhanced data engineering as well as expediting data–based service innovation and digital talent development plans. At the same time, the Group is seeking more opportunities in diverse financial and non–financial business ecosystems for investments and strategic alliances as it reinforces its digital support solutions to strengthen field sales capabilities.

On the global front, the Group is seeking to expand globally under its Global A.C.T. strategy. It will enhance the efficiency and productivity of global channels and develop a sustainable growth model based on tight risk management (Accelerate). Both bank and non-bank affiliates will collaborate in their penetration into global markets while the Group aims to build a system to support their global expansion initiatives (Collabo). Moreover, the Group plans to strengthen non-banking business operations in the strategic region of Southeast Asia through more investment and strategic alliance opportunities (Take-off).

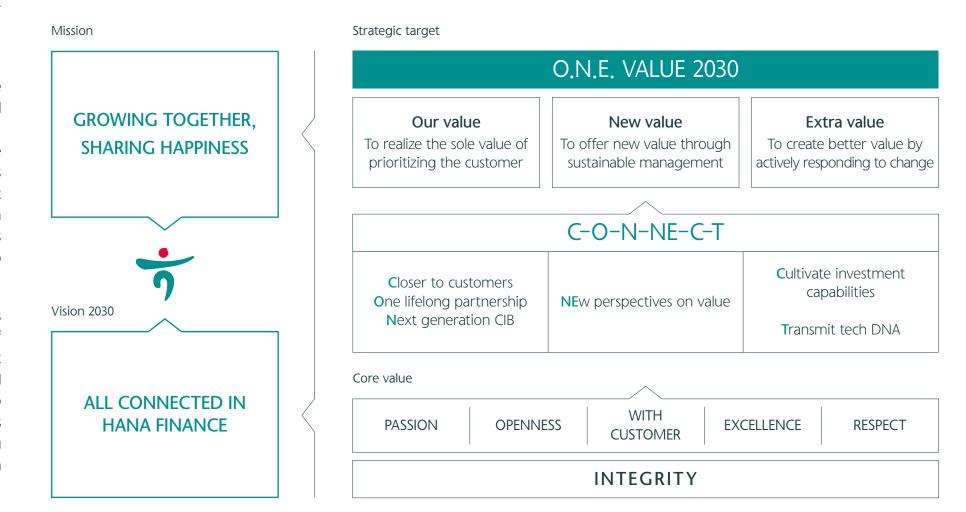
3. Social Value Creation

Hana Financial Group will not only devote itself to solving financial difficulties through active microfinancing programs but also serve its social role through inclusive growth with the underprivileged. Additionally, it will play a leading role in promoting ESG management practices through green finance and job creation for the good of future generations.

4. Risk Management

Risk management is an imperative aspect of financial businesses. In preparation for growing uncertainties in financial markets—we will timely respond to crises through preemptive and strategic risk management.

Under the new vision of "All connected in Hana Finance," Hana Financial Group will make a concerted, heartfelt effort in 2023 to achieving its ambitious goal of becoming Asia's No. 1 financial group. As Korea's leading financial group, Hana Financial Group will faithfully fulfill its social role and mission so as to provide satisfactory financial experiences for our customers, employees, shareholders, and society at large.



Mission

GROWING TOGETHER, SHARING HAPPINESS

Hana Financial Group's mission declares its commitment to corporate social responsibility in meeting the demands and changes of our times. "Growing Together" signifies devotion to balancing between growth, the inherent goal of any business, and social responsibility, while also carrying out activities that enable all stakeholders to thrive together for a better community. Hana Financial Group has always been and will continue to be faithful in performing fundamental and crucial roles in initiatives to spread happiness for society by sharing growth benefits with stakeholders and promoting the value of inclusive finance.

In June 2022, Hana Financial Group declared the Group's new vision for NEXT 2030, "All Connected in Hana Finance," and also declared our midto long-term strategic goal as being "O.N.E. Value 2030."

A Bottom-Up Project: For eleven months, from June 2021 onwards, 12,000 employees brainstormed together to come up with a new vision

Everyone at Hana Financial Group reached a unanimous consensus regarding the imperative to ensure innovation in the organization and workforce in order for the Group to adapt to the rapidly changing financial environment. To that end, the Group initiated a bold and ambitious project of reestablishing its vision for a new paradigm. For eleven months, from June 2021 onwards, more than 12,000 employees participated in a bottom-up project to brainstorm for the new vision. The New Vision project incorporated various opinions put forth by employees through surveys, in-depth interviews, and metaverse workshops. In addition, a customer advisory group asked for opinions from diverse customer groups, as well as interviews and consulting with external experts. In the end, eleven months of hard work with thousands of people boiled down to the Group's new vision, "All Connected in Hana Finance."

Vision

ALL CONNECTED IN HANA FINANCE

Hana Financial Group's vision can read as:

ALL inclusive finance that benefits everybody **CONNECTED** by connecting time, future, and value **HANA FINANCE** in Hana Financial Group's own unique way

This vision embodies our determination to create new value through finance that is firmly built upon mutual trust, allowing everyone to take full advantage of finance through its innovative platform. Based on customer-centric, future-oriented, innovative business model, it is prioritizing value, not growth, in a bid to become Asia's No. 1 financial group-and not just Korea's top financial institution-for its customers, shareholders, and society at large.

ALL

The word "All" signifies more than just finance—it means inclusive finance that does not leave anyone behind. Essentially, it represents the Group's commitment to provide financial services to customers, shareholders and society, and to lead the way in sustainable management that foster growth and fulfill social responsibility.

CONNECTED

"Connected" means that Hana Financial Group will connect with anyone, anywhere, anytime, bridge the present and the future, and create value beyond finance for everyone. The Group is determined to create a better world through its digital finance innovation, which is already bringing about a more advanced financial platform that provides all financial services to anyone, anywhere, and anytime.

HANA FINANCE

This phrase represents the Group's swift and bold spirit toward change, as well as commitment to innovation and responsible finance to deliver easy and convenient financial experiences to everyone in the digital era. The Group has been forging its own path in order to realize convenient, easy-to-use services, a differentiated customer experience, and sustainable and reliable value

Strategic Goal

O.N.E. VALUE 2030

Our Value, New Value, Extra Value

O.N.E. Value 2030 is the new strategic goal for achieving new vision. It represents the Group's determination to become a value-oriented financial group in Hana's Way, without solely focusing on quantitative growth.

O: OUR VALUE

As a customer-centric financial group, the customer values always come first. To that end, the Group seeks to realize customer value and come up with customer-oriented solutions encompassing both financial and non-financial needs. The Group's ultimate goal is to maximize the customer experience based on comprehensive understanding of each and every customer.

N: NEW VALUE

As one of the most recognized financial groups, the Group will generate new value through sustainable management practices. Rather than simply being a fast follower, as the Group desires to become an ESG Frontier, thereby bringing happiness to everyone–from customers and employees to shareholders and society–through the creation of shared value.

E: EXTRA VALUE

As one of the most innovative financial groups, the Group is constantly generating greater value by actively embracing change. It continues to make aggressive, cross-industry investments in pursuit of future competitiveness as well as strengthening core foundations-talents, technology, corporate organization and culture-to actively embrace change.

Corporate Governance

COMPOSITION OF THE BOD

Hana Financial Group's Board of Directors (BOD) approves the Group's management goals, strategies, and business plans, and then oversees their implementation thereof. In addition to formulating the Group's mid- to long-term management strategies, the BOD also appoints and removes the Group CEO and Chairperson, determines director remuneration within the cap set by the general shareholders' meeting (GSM), and approves transactions between directors and the Group.

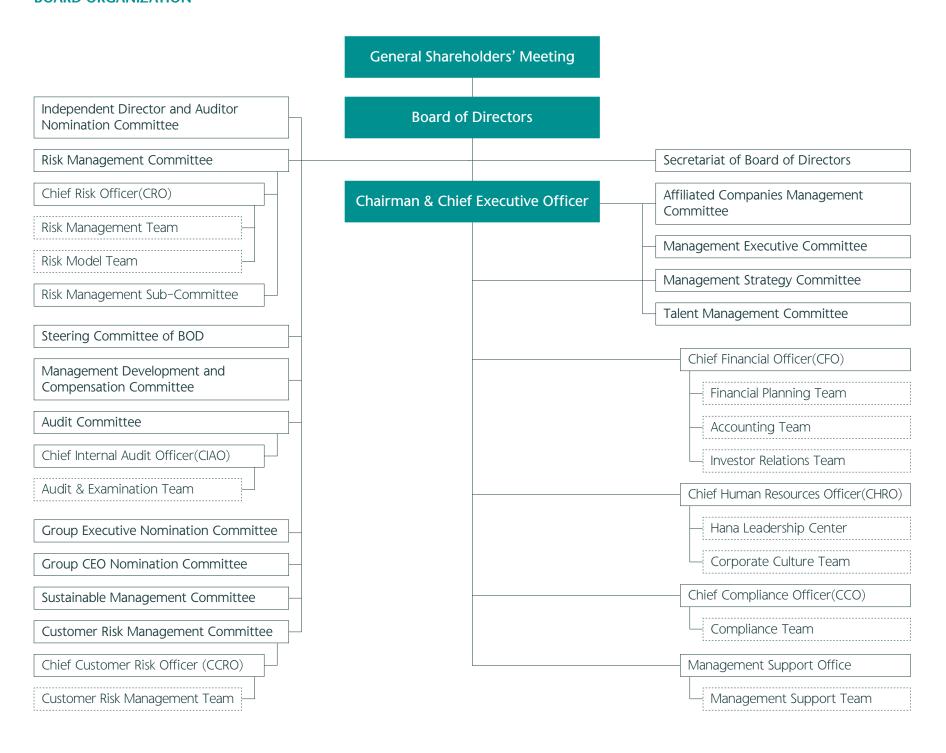
The Group BOD consists of 10 members. Of this number, independent directors account for 80% of the total, with all 8 members contributing to the BOD's expertise in operations through their experience in their respective specialties, including banking, business administration, economics, finance/accounting, legal, information technology, and consumer protection. This diversity in the BOD expertise, which is not skewed in any one specific area, ensures the balanced maximization of value for all stakeholders, from shareholders and customers to employees at every level.

As of the end of 2022, the Group BOD was composed of 10 members, including 8 independent directors, 1 executive (CEO & Chair) director, and 1 non-executive director. Of these people, 3 directors have expertise in banking, 1 in business administration, 2 in economics, 1 in accounting, 2 in legal, and 1 in IT.

As of the end of March 2023, the Group BOD was composed of 10 members, including 8 independent directors, 1 executive (CEO & Chair) director, and 1 non-executive director. Of these people, 3 directors have expertise in banking, 1 in business management, 2 in economics, 1 in finance, 1 in accounting, 1 in law, and 1 in ESG.

For the same period, the Group BOD operated 9 committees, all of which support the BOD's in-depth reviews and deliberation of major business issues. In accordance with the relevant Articles of the Act on Corporate Governance of Financial Companies, the Group has two separate nomination committees, one that recommends candidates to

BOARD ORGANIZATION



become independent directors and audit committee members, and a second that recommends candidates to become the chairperson. This separation is deemed reasonable because each position has unique duties and qualifications, thus requiring a different approach to pooling the candidates.

Once again, as of the end of March 2023, the Group's BOD committees included the Steering Committee of BOD, Audit Committee, Risk Management Committee, Management Development and Compensation Committee, Group Executive Nomination Committee, Independent Director and Auditor Nomination Committee, Group CEO Nomination Committee, Sustainable Management Committee, and Consumer Risk Management Committee.

The Group BOD and all BOD committees closely cooperate with one another in their duty fulfillment and have adequate support from their attached organization(s).

BOD COMMITTEES

Hana Financial Group operates BOD committees to enhance the transparency of its business management, implement rational corporate governance, and facilitate the efficient operation of the BOD. As of the end of March 2023, the Group BOD had 9 committees, as introduced above. It is noteworthy to mention that the Group Executive Nomination Committee also examines and comments on the qualifications of, and recommends, the CEO candidates for Hana Bank, Hana Securities, Hana Card, Hana Capital, Hana Life, and Hana Savings Bank.

The Group BOD empowers its committees to the extent that it does not violate the relevant laws and regulations or the Articles of Incorporation. The committees are empowered with matters related to their specialties, such as improving governance, enhancing the efficiency of BOD operations, auditing the accounting and business activities of the Group, managing various risks arising in the normal course of business activities, establishing the Group's compensation policies, and reviewing the execution thereof, and then recommending candidates for the positions of CEO, independent director, and auditor. All of these Group BOD and committee activities are publicly disclosed on a regular basis.

The Group BOD holds regular and additional meetings when needed. In 2022, the BOD's key resolutions and approvals included: amendments to the Articles of Incorporation, bylaws concerning the Group's governance, BOD regulations, Independent Director Nomination Committee

BOARD COMMITTEES

| Committee | Purpose and Responsibilities | No. of independent directors/ No. of members | Chair |
|---|--|--|-----------------|
| Steering Committee of BOD | Deliberate and resolve issues related to enhancing the corporate governance structure, improving the operation of the BOD and its committees, and other matters delegated by the BOD | 4/5 | Kim, Hong-jin |
| Audit Committee | Plan and conduct internal audits, including accounting and business audits and other incidental audits, evaluate audit results and take follow-up measures, and recommend improvements | 4/4 | Yang, Dong-hoon |
| Risk Management Committee | Establish, approve, and manage policies and plans for handling various risks associated to the Group's business operations | 4/4 | Lee, Jung-won |
| Management Development and Compensation Committee | Establish and deliberate the Group's compensation policies and matters related to the performance evaluation of executives in the holding company and its subsidiaries | 3/3 | Park, Dong-moon |
| Group CEO Nomination Committee | Set criteria for candidates for the Group's CEO, and screen and nominate qualified candidates according to relevant regulations and bylaws | 3/4 | Heo, Yoon |
| Independent Director and Auditor Nomination Committee | Establish guidelines for appointing independent directors, and screen and nominate qualified independent director candidates from various fields; and Select candidates for the Audit Committee and nominate them at GSM | 5/5 | Kim, Hong-jin |
| Group Executive Nomination Committee | Screen and nominate candidates for the position of executive directors of the holding company (excluding Group CEO and independent directors) and chief executive officers of the Group affiliates when new appointments are required for various reasons including tenure termination | 8/8 | Kim, Hong-jin |
| Sustainable Management Committee | Establish and change the Group's sustainable management strategies and policies | 4/5 | Won, Sook-yeon |
| Customer Risk Management Committee | Establish and change the Group's customer risk management policies, enact and abolish Customer Risk Management Operating Committee regulations | 4/5 | TBD |

^{*} As of March 2023

regulations, Audit Committee regulations, and Management Succession Plan regulations, as well as the abolition of the Auditor Committee Member Nomination Committee and relevant regulations; and approvals of the Group vision and mid- and long-term management strategies, share buyback/cancellation, interim dividend payment for FY 2022, paid-in capital increase of Hana Securities and Hana Insurance, respectively, acquisition of shares in Hana Card, the Group Recovery Plan, and the 2023 business management plan and budget.

INDEPENDENCE, TRANSPARENCY AND DIVERSITY OF THE BOD

Hana Financial Group's BOD is its highest decision–making body with respect to important business management issues. As mentioned above, the BOD is composed of 8 independent directors, 1 executive director, and 1 non–executive director. As independent directors account for the majority of the BOD, it has the ability to keep executives in check independently and transparently.

In addition to their supervisory function, directors can also support the informed decision–making of executives with their extensive experience and expertise in related fields, from banking, business administration, economics, and finance/accounting, to legal, IT, and consumer protection. As stipulated in the bylaws, the BOD can also confer with external professional agencies whenever necessary.

The Group's independent directors bring with them their abundance of practical experience as well as expertise in their respective specialties, independent from any conflicts of interest. Furthermore, the Group's independent directors devote sufficient time and effort to perform their duties at the highest level.

As of the end of 2022, the independent directors specialized in the following areas: 1 in banking, 1 in business administration, 2 in economics, 1 in accounting, 2 in legal, and 1 in IT. As of the end of March 2023, the independent directors specialized in the following areas: 1 in banking, 1 in business administration, 2 in economics, 1 in finance, 1 in accounting, 1 in legal, and 1 in ESG.

BOD EVALUATION PROCESS AND STANDARDS

The Group BOD carries out an annual review of its performance results to ensure the transparent and efficient composition and operation of the BOD and to find better ways of improving its roles and duty performance. The annual review of the previous year is conducted immediately at the beginning of the following year. The review procedure is performed in written surveys by independent directors to ensure the objectivity of the process.

This review process was determined by the 8th BOD meeting held in December 2015. The BOD revised the criteria for evaluating the BOD and independent directors' performance, following the advice of a consulting firm to enhance objectivity and fairness in the evaluation process. All these procedures are led by the BOD, but some detailed tasks are delegated to the Secretariat of the Board of Directors.

The evaluation criteria consist of the functions, roles, and responsibilities of the BOD, its operations, its evaluation scheme, its composition, and the qualifications of directors. The details of each criterion are extensive enough to properly evaluate BOD performance.

Respondents are required to elaborate on their evaluation and feedback when answering each criterion on their written questionnaires and to score their answers to each question on a scale of 5 points. Each item is calculated on an average score. When the average score range is 4.5 and higher, it is evaluated as "highest level," the 4 to 4.5 range as "higher than expected," the 3.5 to 4 range as "as expected," and less than 3.5 points is rated as "less than expected."

The table below shows the results of the evaluation of the Group BOD and its committees' 2022 activities.

BOD EVALUATION

| Item | Score |
|---|---------------|
| BOD function, roles, and responsibilities | Highest Level |
| BOD operation | Highest Level |
| BOD evaluation scheme | Highest Level |
| BOD composition and director qualifications | Highest Level |

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Risk Management

RISK MANAGEMENT AT THE GROUP

Hana Financial Group is fully aware of the critical importance of proactive and systematic risk management, and thus focuses on maximizing its risk management capacity to effectively cope with a crisis of any magnitude. In accordance with guidelines at the Group level, all risks associated with credit, markets, liquidity, and operations are managed through detection, measurement, monitoring, control, and reporting.

RISK GOVERNANCE

Hana Financial Group has in place an advanced risk governance system that enables the comprehensive and systematic management of potential risks. The Group's Board of Directors (BOD) commands the resources and systems necessary to manage risks in line with our business strategies, and delegates a portion of its risk management authority and responsibilities to the Risk Management Committee.

RISK MANAGEMENT COMMITTEE

As the highest decision-making body for the Group's risk management, the Risk Management Committee is entrusted by the BOD to establish, approve, and manage the Group-wide policies and master plans for managing various risks associated with the Group's business.

RISK MANAGEMENT SUB-COMMITTEE

The Risk Management Sub-Committee fine-tunes and handles the caps on matters delegated by the Risk Management Committee, and accordingly monitors and manages risk management practices across all Group operations. It also deliberates on pending risk issues and control measures of Group affiliates and orchestrates the implementation of the Group's Risk Management policies at the affiliate level.

RISK MANAGEMENT ORGANIZATION Board of Directors Risk Management Committee - Establish basic policies and strategies for risk management - Set maximum tolerable risk limits - Approve adequate investment limits and maximum acceptable loss limits Risk Management Sub-Committee **Chief Risk Officer** Internal Capital Adequacy Review - Manage matters delegated by the Risk - Assess internal capital adequacy management Management Committee procedures and operations status - Handle excess limits regarding decisions made by the Risk Management Sub-Committee **Risk Management Committee** Risk Management Team, **Risk Officer Risk Model Team Risk Management Team** Planning and policy Adequacy management Measurement and System and infrastructure Verification of suitability monitoring Group-wide risk planning/ - Asset quality & provision - Group Basel (credit/market/ - Verification of the suitability - Group RWA (credit/market/ of affiliates' risk policy management operation) system - Managing the lines of credit operation) measurement - Group credit rating system management systems - Group-wide risk regulations - Group risk culture - Analysis of industrial & and management - Group-wide internal capital - Macroeconomic situation corporate early warning - Group RoRWA management management system analysis & industry analysis Group internal capital - Affiliate risk management Monitoring and assessing adequacy management system-building support the risk management status - Stress testing at affiliates Market/Operations/Interest/ Liquidity risk measurement and management

CHIEF RISK OFFICER

The Chief Risk Officer (CRO) is in charge of all risk management-related organizations of the Group as delegated by the Group Risk Management Committee. The CRO is selected from among candidates without disqualification factors pursuant to Article 28, Paragraph 3 of the Act on Corporate Governance of Financial Companies and all relevant internal regulations.

THE GROUP RISK MANAGEMENT UNITS

The Group Risk Management units–Risk Management Team and Risk Model Team–are independently run under the direct supervision of the CRO. They report risk management–related issues directly to the Risk Management Committee, Risk Management Sub–committee, top management, and CRO, and assist each of the bodies in their deliberation of the issues. They also examine Group affiliates' day–to–day risk management practices and the adequacy of their risk measurement models.

RISK MANAGEMENT COMMITTEES, OFFICERS, AND TEAMS AT GROUP AFFILIATES

The Group affiliates not only follow Group-wide risk policies and strategies but also establish and implement the details of their own risk policies and strategies as well as for subsidiaries. This is always carried out in conformity with Group-wide risk policies and strategies.

THE ROLE AND RESPONSIBILITIES OF THE GROUP RISK MANAGEMENT COMMITTEE

The Group Risk Management Committee is one of the BOD committees responsible for effective risk management in line with the business strategies of the Group and the Group affiliates in accordance with all related regulations established by the BOD.

As the highest decision–making body on Group–wide risk management practices, the Committee establishes, approves, and manages policies and master plans for managing any risk involving the Group's ordinary business activities on the basis of a top–down system between the holding company and the Group affiliates.

Consisting of experts in accounting, economics, and finance, the Committee manages all Group-wide risks, while also making every effort to ensure smooth communication and, when needed, seeks opinions from internal and external experts.

RISK-WEIGHTED ASSET MANAGEMENT STRATEGY

The risk-weighted asset (RWA) management goal is to achieve the mid-to long-term capital adequacy ratio as approved by the BOD and to maintain an efficient RoRWA*. Based on the recognition of the growing needs of Group-wide capital adequacy management, the Group and its affiliates set their own individual RWA goals and monitor the performance results to timely address affiliates in reaching their RWA limits with separate management plans. In hedging against a prolonged economic recession, we will keep a close eye on our high-risk exposure even as we increase our low-risk exposure to rebalance a sound asset portfolio.

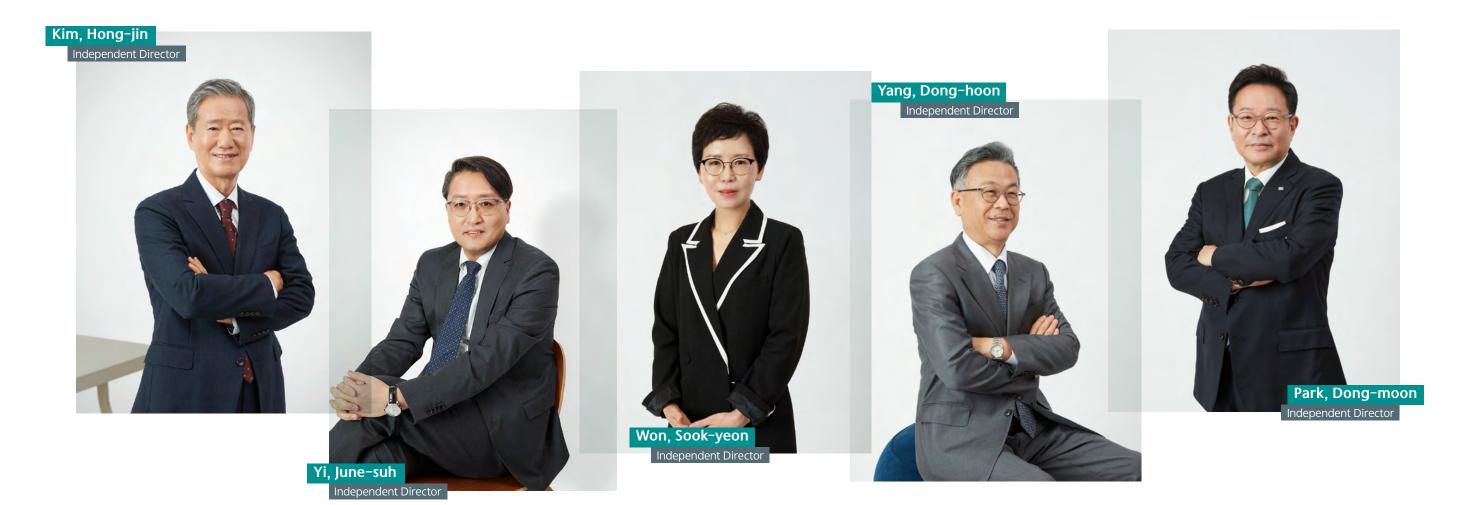
For successful RoRWA management, the Group and its affiliates have in place their own respective RoRWA goals. Affiliates have determined the guidelines for RoRWA management so as to factor the RoRWA into the decision–making processes from new lending or investment review stages to credit review stages. Moving forward, RoRWA guidelines will be pegged to the economic situation at hand to ensure effective risk-based profit management.

PROMINENT RISK MANAGEMENT AGENDA FOR 2023

In 2023, a myriad of risk factors–untamed inflation, soaring interest rates and foreign exchange rates, growing volatility in capital markets, and an economic recession outlook–portend of a challenging year for all, demanding more proactive and strategic risk management plans than ever before. Against this backdrop, we have thoroughly prepared for this complexity of challenging situations by making preemptive asset quality management our top priority in risk management policy for 2023. In addition, we will maintain solid capital adequacy to ensure we achieve sustainable growth. In preparation for continued fluctuation in financial markets, we will further strengthen our liquidity risk management system and bolster our global risk management in response to a potential global economic downturn. At the same time, we will soberly respond to regulatory changes while advancing our risk early warning system to be prepared against any potential crisis.

^{*}RoRWA: return on risk-weighted assets

Board of Directors



- Former, Executive Vice President,
 Management Support Division,
 Korea Securities Depository
- Former, Head of Administration and Planning, Financial Intelligence Unit, Ministry of Economy and Finance
- Former, Director for Audit and Inspection, Ministry of Finance and Economy
- Professor, Finance Faculty,
 Dongguk Business School
- Former, member, Special Committee on Investment Policy, National Pension Fund Management Committee
- Former, Member, Securities and Futures Commission,
 Financial Services Commission
- Professor, Public Administration,
 Ewha Womans University
- Member, Equal Opportunity
 Policy Committee,
 Supreme Prosecutors' Office
- Member, Financial Management
 Strategy, Ministry of Economy
 and Finance
- Professor, Department of Accounting,
 Business School, Dongguk University
- Former, President, Korean Accounting Association
- Former, Member of Accounting Reform Task Force, Financial Services Commission
- Former, CEO, Kolon Industries
- Former, CEO, Kolon Glotech
- Former, CEO, Kolon Inet

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Board of Directors



- Former, CEO, Shinhan Data System
- Former, Vice President, Credit Analysis& Assessment Group, Shinhan Bank
- Former, Independent Director, Hana Bank
- Managing Partner, Dadam LLC.
- Former, Chief Judge, Busan High Court
- Former, Presiding Judge,Seoul High Court
- Professor, Graduate School of
 International Studies, Sogang University
- Former, Chairman of International Cooperation Division, International Finance Development Deliberation Committee, Ministry of Economy and Finance
- Former, President, Korean Association of Trade and Industry Studies

- CEO, Hana Financial Group (March 25, 2022 ~ Present)
- Former, CEO, Hana Bank

- CEO, Hana Bank
- Former, CEO, Hana Life
- Former, Deputy President,
 Chief Financial Officer, Hana Financial
 Group

EVERY STEP, EVERYWHERE FOR EVERYONE

Hana Financial Group plans to expand its business domains based on the strengths of its field sales, wealth management, and offline channel network. Furthermore, we are upgrading the Group's digital platform, bolstering the seamless connection of on– and off–line channels, while also building infrastructure for enhanced data engineering as well as expediting data–based service innovation and digital talent development plans. At the same time, the Group is seeking more opportunities in diverse financial and non–financial business ecosystems for investments and strategic alliances as it reinforces its digital support solutions to strengthen field sales capabilities.



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CONSISTENTLY CUSTOMER-CENTRIC

— we support you Every Step of the way

Hana Financial Group is focused on evolving into a life finance platform through digital financial innovation, which is one of its three key strategic objectives. To achieve this objective, the Group plans to introduce a new collaboration paradigm, create innovative financial models through partnerships and investments in non-financial industries, and seek opportunities for expansion into big tech apps, surpassing competition with big tech companies.

NON-FINANCIAL

Hana 1Q offers not only banking transactions but also group-affiliated services such as stock and card transactions, insurance consultations, as well as various lifestyle finance contents.



Health Care Platform

- Provide various healthcare management contents
- Digital insurance product information service

Mobility Platform

- New car quotation service
- Private used car direct transaction

FINANCIAL

Hana 1Q offers a seamless experience with a single sign-on feature, allowing users to receive personalized stock recommendations, purchase overseas stocks, analyze their insurance policies, and view their credit card usage and apply for new cards.



Stock Trading

- IPO subscription

PB Service

- Digital comprehensive asset

management service

support service

- Legal advisory consulting

- Overseas stock recommendation and trading

Card

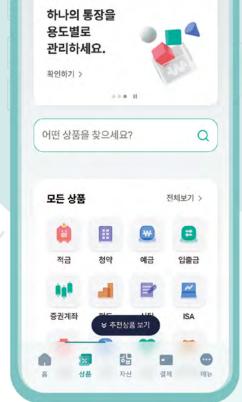
- Card application
- Transaction history inquiry

Payment Settlements

- Payment
- Discount coupon deal

FX Market

- Currency exchange request
- Foreign exchange transaction



상품

Real Estate

- Non-face-to-face apartment collateralized loan
- Subscription solution

Hana Music Box

- Free music streaming service

Sports Platform

- Ticket reservation for Daejeon Hana Citizen
- Hana sports news









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CONSISTENTLY GLOBAL

— we see opportunities **Everywhere**

Hana Financial Group continues to take on diverse challenges to become a leading digital financial group. While improving our profitability, we also are expanding our presence in emerging financial markets and thus gaining global growth momentum based on localization strategies. We are also focusing on expanding platform-based digital financial services.



PT Bank KEB Hana Indonesia

Holding Economic Outlook 2023, Hana Bank is prepared to meet the challenges of the global



Vietnam Hana Securities

HS will support BSC to accelerate the digital transformation process and become a digital securities company in Vietnam.



Singapore Hana Asset Management Asia

Hana Bank of Singapore operates as a bank. The Bank accepts deposits and makes loans, as well as provides mortgage solutions, card facilities, and online banking services.





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CONSISTENTLY SUSTAINABLE

— we create a better world for **Everyone**

Hana Financial Group fulfills environmental, social and governance responsibilities while transparently disclosing our ESG performance and management strategies through our annual ESG reports according to acclaimed global standards. In line with the growing societal demand for ESG management, we will cooperate with various global ESG initiatives to internalize ESG-oriented management, stay on top of global trends in all areas of ESG, and achieve sustainable growth by fulfilling ESG initiatives.



Building 100 Daycare Centers

These specialized daycare centers contribute to social cohesion and provide opportunities for childcare.



The Hana Dream Town Group HQ

The building obtained the Preliminary Green Standard for Energy and Environmental Design (G-SEED) "Best (Green Class 1)" and Preliminary Building Energy Efficiency "Class 1+"

KEY ESG OBJECTIVES

by 2030

KRW 60 trillion

in green and sustainable sector loans, investments and funding by 2030



Dow Jones
Sustainability Indices
Powered by the S&P Global CSA

2022 DJSI World Index, Global No. 1 in Banking Industry



Received grade AA in 2022



The Group's Carbon reduction target was approved by the SBTi



Hana Financial Group included in BGEI

BUSINESS OVERVIEW

In an era characterized by the dissolution of industry boundaries and increasing uncertainty, Hana Financial Group is transforming itself into a financial platform company by leveraging digital innovations to enhance its traditional strengths. With an extensive and diverse business portfolio, Hana Financial Group is strategically utilizing its expansive global network, the largest in Korea, to foster group synergies and explore growth prospects through collaborative efforts across different industries. The ultimate objective is to establish itself as the leading financial group in Asia.

HANA BANK



Lee, Seung-lyul CEO, Hana Bank

STRENGTHS

Q1 Hana Bank is renowned for its expertise in WM, corporate banking, and FX business. What are your plans to further reinforce these strengths in the future?

In a nutshell, we will make the most of our strengths in WM, corporate banking, and FX to increase our revenue base and develop them into future growth engines.

To expand our WM customer base, our PB-level digital advisory services will target the mass affluent and mass market segments. At the same time, we will develop a future-oriented hybrid WM model that covers both digital and offline channels and reinforces our WM product lineup to consolidate the prestige that stands behind the name Hana Bank in the WM market.

For corporate banking operations, our platform-based solutions will help corporate clients enhance their operational efficiency while our digital transformation drive will facilitate a risk management process tailored to each corporate client's specific needs. Furthermore, we plan to provide SME customers with digital-based total solutions designed to meet their precise individual lifecycles-from their establishment to business administration and finance.

Regarding the FX business, the bank will expand its platform business to lead the foreign remittance market and upgrade its corporate FX competency to further strengthen business operations. We will also add more customized exchange banking services to address the various demands of consumers, such as FX trading, investments in offshore stocks, direct cross-border e-commerce purchases, and outbound remittances by foreign workers.

ASSET QUALITY

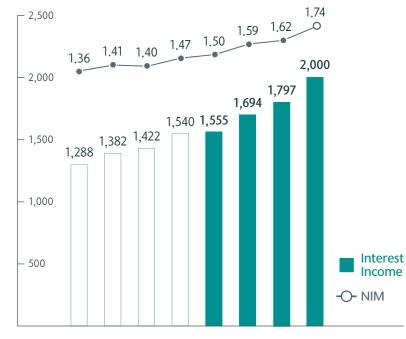
Q2 What are your plans for keeping your asset quality (household and SOHO loans, watch-out companies) protected against macroeconomic risks amid rising concerns over a looming recession?

In 2023, recession fears are rising, not to mention the possibility of a real estate project financing crisis and soaring interest rates, the latter weighing on borrowers' repayment capacity. Taken as a whole, this adds up to market uncertainties in domestic and international economic conditions, leading to rising concerns over the possible deterioration of asset quality.

From where we stand, we are closely monitoring vulnerable groups, including SOHO, marginal SMEs, and retail borrowers with high debt-to-income ratios.

NIM & INTEREST INCOME

(KRW bn, %)



1Q21 2Q21 3Q21 4Q21 1Q22 2Q22 3Q22 4Q22

HANA FINANCIAL GROUP Annual Report 2022 – HANA BANK

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In anticipation of a potential increase in credit risk, Hana Bank has in place cautious credit management protocols. While prudently extending new corporate loans to maintain a balance among the different ranges of credit ratings, we also periodically monitor and review loans by size and collateral types. On top of this, we will continue to raise the proportion of quality collateralized loans and increase the coverage of collateral to ensure the soundness of our loan portfolio, and minimize default risks.

DIGITAL

Q3 Please tell us more about the ideal scale of your bank channels and your strategies for differentiating digital operations, that is, making "Hana 1Q" a super platform.

Banking services are going digital at a faster-than-expected pace. Accordingly, the number of bank branches is gradually dwindling.

In theory, an ideal bank channel would be the one that can cater to all the demand for in-person channels, excluding the digital channel demand. But it is difficult to come up with a concrete number as the calculation takes numerous factors, such as economic conditions, population, regional markets, and bank network density.

Therefore, our immediate focus is on providing a differentiated customer experience through "Hana 1Q" (our flagship mobile banking app). To that end, we will take full advantage of our digital technologies to realize an easy and convenient digital environment that can be made available on one super app. As it stands, this super app will bring together all the core financial services of our Group affiliates–from personalized financial services and comprehensive WM services to bank deposits/loans and FX transactions.

INTERNET BANK

Q4 The advent of internet banks gave rise to market concerns over legacy banks in the past. What is your differentiation plan to keep a competitive edge over digital banks?

The advent of internet banks armed with digital competitiveness in 2017 has expedited the digital transformation initiative in Korea's financial industry. As a result, higher expectations from financial consumers, big tech incursions into the financial sector, and the Korean government's financial deregulation measures have inspired innovation drives among traditional banks to survive this paradigm shift.

In order to take the lead in this fierce competition for leadership in the future financial ecosystem, Hana Bank has come up with three strategies to differentiate our services.

The first is that the Group flagship app, "Hana 1Q," will evolve into a total financial platform specializing in wealth management. This will allow us to continue listening to customer feedback in a meaningful way while enhancing our services and usability to provide an easy and convenient digital experience for all.

The second is that we are broadening our collaborations from existing tech–savvy conglomerates, such as SKT and NAVER Financial, to other industries, like gaming companies that include Com2us. Not only that, but we are expanding our digital alliances with several fintech firms to establish a comprehensive partnership system to provide even greater customer service.

Lastly, the third strategy has to do with bolstering our digital competencies in both software and hardware. In addition to next-generation IT system projects, we are cultivating digital talents to augment our ICT infrastructure and digital capabilities.

1.74% 227.3% NPL Coverage Ratio

273,972
Total Loans
(KRW bn)



"We will establish
'Customer First' corporate
culture as the DNA of
Hana Bank."

HANA SECURITIES



Kang, Seong-muk
CEO, Hana Securities

BUSINESS STRATEGY

Q1 Hana Securities has grown into a major IB house with an equity size of KRW 6 trillion. What is your plan for 2023?

Hana Securities became a mega-size IB house by the end of December 2022, when our equity capital reached KRW 5.8 trillion.

However, sharp interest rate hikes and the subsequent deteriorating business environment drew down the overall capital markets, with liquidity draining out of the markets for equities, bonds, and real estate. Consequently, Hana Securities' net income decreased.

As these market complexities are here to stay in 2023, we need some breakthroughs to overcome these market-related uncertainties. That's why Hana Securities set its goal at achieving qualitative growth by consolidating our fundamentals for sustainable growth as well as improving our profitability. To that end, we will bolster our core competencies in each business area to achieve substantial growth and create a breakthrough to become a new and stronger-than-ever Hana Securities in 2023.

To start, we will make a company-wide effort to expand our WM customer base and AUMs. As part of this effort, we will continue to preemptively introduce competitive products that are well-matched to customer needs. Also, we will expand our digital business infrastructure through alliances with third parties and Group subsidiaries while upgrading our services.

As for the IB segment, we will promote the rebalancing and restructuring of its asset portfolios through active sell-downs of IB assets in our holdings. We will also restructure our portfolios to augment traditional IB operations by concentrating on the SPAC sector, where we have a clear and distinct advantage relatively. As for new business, we will build a platform rooted in strategic REITs to capture both sell-down and ROI, thereby achieving substantiality and quality growth.

With respect to the S&T segment, we will strategically cope with market developments to improve our profitability while also diversifying its revenue stream by strengthening our forte, such as our derivatives-linked securities issuance. Plus, we will increase the size of our principal investments (PI) to match our expanded equity capital and also seek new revenue sources in undiscovered businesses, including the issuance of promissory notes.

At the same time, effective risk management will remain at the top of our priority task list until market uncertainties subside. We will take preemptive measures such as systematically tightening our screening and monitoring procedures.

FEE INCOME

(KRW bn)



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GLOBAL

Q2 The Group continues to expand globally in pursuit of revenue diversification and more robust non-bank operations. What is Hana Securities' global expansion strategy?

In 2022, Hana Securities successfully established a bridgehead in the New Southern market by acquiring a Singaporean asset manager and stakes in a Vietnamese BSC brokerage house, BIDV Securities Company (BSC).

Our plans for 2023 are to expand our support for the growth of the Singaporean asset management subsidiary and maximize BSC's profits. In particular, we plan to impart our business know-how on BSC to help it develop the digital platform and content required to grow into a digital specialist securities firm that can lead the Vietnamese securities market. To that end, we are developing mid- to long-term business strategies and digital integration marketing strategies.

Furthermore, we will collaborate with the Group's global division in order to maximize synergies between subsidiaries and strengthen our global business capabilities, specifically in Southeast Asia's fast-growing markets.

REAL ESTATE PF

Q3 There are growing concerns about potential defaults in Korea's real estate PF market. What are your plans to deal with such risks now and in the future?

Crises in Korea's bond and PF markets, which were triggered by the default in project financing for the construction of the LEGOLAND Korea amusement park in Gangwon province, eventually abated and the markets regained their footing after financial regulators quickly stepped forward with large-scale stabilization packages. Still, commodity supply disruptions and soaring labor costs, coupled with high interest rates, are only adding up to greater market instability, leaving market players on edge and vigilant.

In stark contrast, our real estate PF assets remain well managed, as their repayments and exits are on course, despite some market concerns over potential insolvencies. Still, we are refining our risk management system to proactively hedge against potential risks that could arise from unsettling factors we need to account for, such as continued high interest rates and the prolonged downturn in the real estate market.

Specifically, we are not only working on a preemptive monitoring system to detect and address potential non-performing assets in advance but are also further tightening our maintenance of regulatory ratios. As we have recently established a department dedicated to following up on the management of our IB assets in our holdings, we are now making more substantial efforts to keep firm control of our risk management as well.

778.9
General Operating Income (KRW bn)

210.0

IPO & Capital Increase (KRW bn)



"Hana Securities set its goal at achieving qualitative growth by consolidating fundamentals for sustainable growth as well as improving profitability."

ACQUISITION AND ISSUANCE IN 2022

| | 2022 | 2021 | YoY | % |
|---------------------------------------|---------|---------|---------|--------|
| IPO & Capital Increase (Lead-managed) | 210.0 | 359.2 | -149.3 | -41.6% |
| ELS/DLS Issued (ELB/DLB included) | 9,567.0 | 6,941.7 | 2,625.3 | 37.8% |

FINANCIAL REVIEW

Management's Discussion and Analysis

- Independent Auditor's Report
- Consolidated Statements of Financial Position
- Consolidated Statements of Profit or Loss and Other Comprehensive Income
- Consolidated Statements of Changes in Equity
- Consolidated Statements of Cash Flows
- Notes to the Consolidated Financial Statements

HANA FINANCIAL GROUP

I. OVERVIEW

Against the backdrop of the global pandemic blurring the macro and microeconomic outlook in 2022, Hana Financial Group and its employees continued a concerted effort to deliver the Group mission, "Growing Together, Sharing Happiness." The Group is committed to its duty as a financial group by seeking to achieve win–win partnerships with various stakeholders, including customers.

The commitment paid off when the Group renewed its record-high consolidated net income of KRW 3,552.4 billion, up 0.7% yet again from the previous year's all-time-high record. This remarkable performance was driven by a surge in general operating income due to steady asset growth and interest rate hikes, which offset the stagnant fee income and valuation gains due to volatile financial markets. The government's back-to-back interest rate hikes helped improve the Group's net interest margin (NIM)-combining NIMs of Hana Bank and Hana Card-by 17 bps YoY to 1.83% as net interest income rose by KRW 1,482.6 billion YoY to KRW 8,919.8 billion, driving the overall net income growth. The Group's return on equity (ROE) was 10.08% while the C/I ratio improved to 42,88%, down 1.08%p YoY.

The Group's total assets grew by 13,2% YoY to KRW 568,873.2 billion, owing to the increased interest-earning assets to meet the growing demand for funding by large corporations and public institutions.

The Group's asset quality remained as stable as the previous year, with a non-performing loan (NPL) ratio of 0.34% and an NPL coverage ratio of 195.86%, up by 18.6%p YoY. Delinquency rate was 0.30%, up 2bps YoY. The Group-wide risk management was effectively carried out amid the unstable macroeconomic developments.

The Group's BIS ratio was 15.67%, and the Common Equity Tier 1 ratio was 13.16%. All in all, the capital adequacy ratio of the Group and its subsidiaries remained stable well above the regulatory ratio of financial authorities.

In order to achieve the Group's 2023 management goals, it will focus on corporate culture innovation, business strategy execution, social value creation, and risk management. Hana Financial Group will continue to grow beyond the financial boundaries and break the conventional business framework through competition and cooperation.

TABLE 1. SUMMARIZED FINANCIAL INFORMATION

| | 2022 | 2021 | YoY |
|---|-----------|-----------|-----------|
| Profitability | | | |
| General Operating Income | 10,337.9 | 9,214.2 | 1,123.7 |
| Operating Income | 4,690.3 | 4,631.1 | 59.2 |
| Consolidated Net Income | 3,552.4 | 3,526.1 | 26.3 |
| ROA | 0.66% | 0.74% | -0.08%p |
| ROE | 10.08% | 10.89% | -0.81%p |
| EPS (KRW) | 12,184 | 11,819 | 365 |
| Cost to Income Ratio | 42.88% | 43.96% | -1.08%p |
| Business Volume | | | |
| Total Assets 1) | 568,873.2 | 502,445.3 | 66,427.9 |
| Total Sales | 419,477.4 | 400,529.8 | 18,947.5 |
| (Total Deposits) 1) | 362,738.0 | 325,344.7 | 37,393.3 |
| Asset Quality | | | |
| Substandard & Below (NPL) Ratio | 0.34% | 0.32% | 0.02%p |
| Substandard & Below (NPL) Coverage Ratio ²⁾ | 195.86% | 177.26% | 18.60%p |
| Delinquency Ratio | 0.30% | 0.28% | 0.02%p |
| BPS | 113,635 | 108,354 | 5,280 |
| Capital Adequacy 3) | | | |
| BIS CAR - Group | 15.67% | 16.29% | -0.62%p |
| Tier 1 Ratio - Group | 14.61% | 15.15% | -0.54%p |
| Common Equity Tier 1 Ratio - Group | 13.16% | 13.78% | -0.62%p |
| BIS CAR – Hana Bank | 16.63% | 17.24% | -0.61%p |
| Tier 1 Ratio - Hana Bank | 14.84% | 15.29% | -0.45%p |
| Common Equity Tier 1 Ratio – Hana Bank | 14.64% | 15.06% | -0.42%p |
| Net Capital Ratio – Hana Securities | 1051,19% | 1192.31% | -141.12%p |
| Adjusted Equity Capital Ratio - Hana Card | 19.11% | 22.13% | -3.02%p |
| Solvency Margin Ratio - Hana Life | 186.32% | 200.40% | -14.08%p |
| Adjusted Equity Capital Ratio - Hana Capital | 12.97% | 13.90% | -0.93%p |

- 1) Total assets exclusive of trust assets
- 2) Based on the Regulations on Supervision of Banking Business amended on December 14, 2016
- 3) Based on Basel III standards

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Management's Discussion and Analysis

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II. SUMMARY OF BUSINESS PERFORMANCE

Hana Financial Group's consolidated net income for 2022 stood at KRW 3,552.4 billion, up KRW 26.3 billion YoY. The main driver of the increase was a surge in the general operating income from the previous year on the strength of solid asset growth and multiple interest rate hikes.

Interest income rose KRW 1,482.6 billion YoY as a result of the growth in quality asset size from improved asset portfolio and BOK's base rate hikes. Fee income declined KRW 119.0 billion YoY as brokerage and beneficiary certificate fees dropped due to sagging investor sentiments over the plummeting global stock markets. Gains on disposition and valuation fell due to the bearish stock market coupled with rising interest rates. Still, the Group's general operating income sustained a robust growth of KRW 1,123.7 billion, or 12,2%, from the previous year to reach KRW 10,337,9 billion in 2022.

SG&A expenses were well-maintained thanks to the strong income growth and the Group-wide cost control, which collectively offset the increased administrative expenses.

The Group's provision rose by KRW 682.0 billion YoY to KRW 1,214.7 billion. This was the result of preemptive provisioning to enhance total loss absorbing capacity and additional provisioning for the potential risks of default on the real estate PF and global sectors. In preparation for an economic downturn, the Group will maintain a conservative level of provision and intensify risk exposure monitoring. Hana Financial Group's operating income increased by KRW 59.2 billion YoY to record KRW 4,690.3 billion in 2022.

In 2022, Hana Financial Group's SG&A expenses increased by KRW 382.4 billion YoY to KRW 4,432.9 billion. Owing to the higher general operating income and improved cost efficiency, C/I ratio declined by 1.1%p YoY to 42.9%, a record-low figure since the establishment of the Group. To break down the expenses in detail, salaries and employee benefits decreased by KRW 29.4 billion from the previous year due to the reduction of headcount at Hana Bank and decreased performance-linked bonus expenses of Hana Securities.

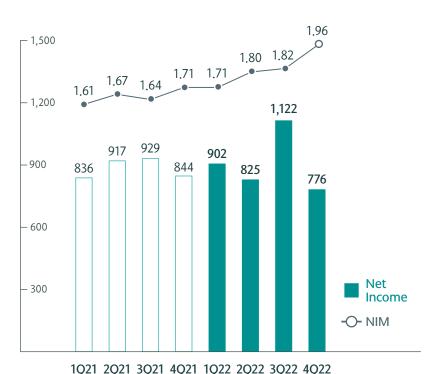
Provision for salaries and severance benefit expenses grew by KRW 165.9 billion YoY due to the underlying effect of extraordinary retirement expenses of Hana Bank and Hana Card. Administrative expenses and depreciation & amortization increased by KRW 188.8 billion and KRW 22.1 billion YoY, respectively, mainly driven by increases in IT infrastructure investment, ESG-related expenses, and sales support expenses at subsidiaries. The Group will continue enhancing cost efficiency through cost-cutting efforts.

Looking at the 2022 performance by subsidiary, Hana Bank posted a net income of KRW 2,986.0 billion, up KRW 605.8 billion YoY to KRW 2,986.0 billion. Interest income grew by KRW 1,415.2 billion, and fee income rose by KRW 12.9 billion, demonstrating a solid improvement on the back of a rising net interest margin. On the other hand, despite the sluggish sales of fixed-income, decreased foreign currency valuation loss and rising foreign currency translation gains propped up the gains on disposition and valuation, which grew by KRW 103.2 billion YoY. Overall, general operating income increased by KRW 1,371.0 billion to reach KRW 7,503.7 billion in 2022. Hana Bank's general and administrative expenses grew by KRW 302.7 billion YoY despite the bankwide cost-saving effort, which was offset by the underlying effect of ERP expenses, the increase in IT infrastructure investments and ESG-related expenses, and sales administrative expenses. Provision increased by KRW 257.1 billion YoY to KRW 395.7 billion due to the Bank's preemptive additional provision for macro uncertainty.

Hana Securities posted a net income of KRW 155,8 billion, down KRW 408.1 billion YoY. The company recorded a YoY decline of KRW 100.5 billion and KRW 10.7 billion each in brokerage and beneficiary certificate fee incomes. Coupled with interest rate hikes, sagging investor sentiment over the bearish stock market quickly drained funds away from stock deposit and equity-type beneficiary certificate deposits, driving down the average daily trading volume of the stock market by 39% YoY from KRW 31 trillion in 2021 to KRW 19 trillion in 2022.

GROUP NET INCOME & NIM

(Unit: KRW billion, %)



GROUP SG&A EXPENSES & C/I RATIO

(Unit: KRW billion, %)



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As for Hana Card, funding costs increased due to the rising market rates. The adjustment of merchant fees hindered the fee income growth, resulting in a KRW 58.5 billion YoY decline in net profit, which ended at KRW 192.0 billion in 2022. Fee income remained similar to the previous year's level at KRW 225.5 billion, while SG&A expenses grew by KRW 23.6 billion to KRW 245.5 billion in 2022.

Hana Capital diversified its business portfolio and laid the foundation for a stable revenue stream by expanding the coverage of its financial investment assets. Consequently, the company posted a record-high net income of KRW 293.3 billion, up by KRW 22.1 billion YoY. Lease and installment assets increased KRW 678.0 billion YoY to KRW 5,559.2 billion. In an aggressive risk management effort, the company preemptively set aside additional loan loss provision of KRW 57.8 billion YoY to reserve KRW 94.6 billion. Asset quality, including the NPL ratio, mostly remained at the same level as the previous year.

Hana Life strived to reduce costs and expand sales of protection and variable insurance plans instead of saving-type insurance products. The company actively pursued cross-selling with the Group subsidiaries for quality-driven asset management to grow the return on investments (ROI). At the same time, it focused on building sound business fundamentals through tight risk management. The net income dropped by KRW 2.6 billion YoY to KRW 10.1 billion in 2022.

Hana Savings Bank's retail banking business substantially grew, contributing to its interest income growth, thanks to its focus on increasing corporate loans centered on stable assets and through policy loan such as the Sunshine Loan, and mid-credit loans through its digital platform. In addition, through sales channel diversification and loan portfolio rebalancing, the bank continued quality-driven growth and efficient management. General operating income grew by KRW 25.8 billion YoY, but preemptive provisioning of loan loss reserve offset the net income, down KRW 3.3 billion YoY to KRW 23.3 billion in 2022.

Hana Asset Trust reported a net income of KRW 83.9 billion, down KRW 8.8 billion YoY, aiming to increase sales of high-margin, completion-guarantee-type land trusts and expand REITs and apartment redevelopment business.

Hana Insurance is driving transformation from traditional car insurance-oriented business to a digital insurance platform for daily lives. The base effect of the sale of office buildings in the previous year and the growing auto insurance loss ratio eroded into the company's net income for 2022, which dropped by KRW 91.0 billion, resulting in a net loss of KRW 70.2 billion.

TABLE 2. COMPREHENSIVE INCOME STATEMENT BY SUBSIDIARIES (SEPARATED)

| | Hana Bank | Hana Securities | Hana Card | Hana Capital | Hana Asset Trust | Hana Alternative Asset Management | Hana Life | Hana Savings Bank | Hana TI | Hana Ventures | Hana F&I | Hana Insurance |
|--|--------------|--------------------|--------------|-----------------|------------------------|--|--------------|-------------------------|------------|------------------|-------------|-------------------|
| General Operating Income | 7,503.7 | 804.5 | 711.7 | 566.0 | 161.8 | 65.6 | 72.6 | 112.1 | 12.5 | 10.5 | 62.2 | 77.5 |
| Net Interest Income | 7,046.9 | 331.3 | 395.4 | 385.1 | 11.9 | 1.6 | 80.9 | 113.1 | -4.0 | 0.1 | 61.2 | 20.8 |
| Net Fee and Commission Income | 761.4 | 491.7 | 225.5 | 123.6 | 139.7 | 55.8 | 44.5 | 5.8 | 0.0 | 10.3 | -10.2 | 1.0 |
| Gains on Disposition & Valuation | 450.0 | -133.8 | 49.8 | 29.0 | 8.7 | 0.6 | 12.8 | 4.0 | 0.1 | 0.1 | 3.2 | -0.2 |
| Other Operating Income | -754.6 | 115.4 | 40.9 | 28.3 | 1.5 | 7.5 | -65.6 | -10.8 | 16.5 | 0.0 | 8.0 | 55.9 |
| General & Administrative Expenses | 3,036.2 | 502.9 | 245.5 | 82.8 | 42.2 | 28.1 | 46.5 | 38.9 | 7.5 | 6.0 | 10.2 | 138.3 |
| Pre-Provisioning Operating Profit (PPOP) | 4,467.5 | 301.6 | 466.2 | 483.2 | 119.6 | 37.4 | 26.1 | 73.2 | 5.0 | 4.5 | 52.0 | -60.8 |
| Provision | 395.7 | 100.1 | 218.9 | 94.6 | 6.6 | -0.6 | 6.6 | 41.5 | 0.0 | 0.0 | 12.4 | 0.2 |
| Operating Income | 4,071.8 | 201.6 | 247.3 | 388.6 | 113.0 | 38.0 | 19.5 | 31.7 | 5.0 | 4.5 | 39.6 | -61.0 |
| Non-Operating Income | -74.2 | 18.6 | -0.7 | 2.7 | 0.4 | 1.4 | -2.1 | -0.1 | 110.9 | -1.5 | -0.1 | -0.6 |
| Net Income before Income Tax | 3,997.6 | 220.2 | 246.5 | 391.3 | 113.3 | 39.4 | 17.5 | 31.6 | 115.8 | 3.0 | 39.5 | -61.6 |
| Income Tax Expense | 1,011.7 | 64.3 | 54.6 | 98.0 | 29.4 | 10.3 | 7.3 | 8.3 | 31.1 | 0.7 | 9.1 | 8.6 |
| Net Income | 2,986.0 | 155.8 | 192.0 | 293.3 | 83.9 | 29.1 | 10.1 | 23.3 | 84.7 | 2.3 | 30.4 | -70.2 |

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The Group's non-interest income decreased by 20.2% YoY to KRW 1,418.2 billion as fee income, gains on disposition & valuation, and other operating income dropped from the previous year.

The bearish stock markets at home and abroad dampened investor sentiment, leading to a 39% YoY decline of the average daily transaction volume. Consequently, the Group's brokerage fees and beneficiary certificates income were both contracted in 2022. Surging interest rates, commodity prices, and construction costs hindered real estate IB deals, and the contracting IPO market resulted in a decline in M&A advisory fee income.

Gains on disposition and valuation dropped due to internal and external factors in the market, resulting in a KRW 140.4 billion YoY decrease to KRW 364.3 billion.

Other operating income consists primarily of deposit insurance fees and other sales expenses, contributions to the credit guarantee fund and other business expenses, stock dividends, and other income accounts. Dividend income fell by KRW 18.5 billion YoY to KRW 343.5 billion, while the contributions to the credit guarantee fund and deposit insurance fees stood at KRW 423.2 billion and KRW 467.4 billion, respectively.

TABLE 3. NON-INTEREST INCOME (CONSOLIDATED)

(Unit: KRW in billion)

| | 2022 | 2021 | YoY |
|--|---------|---------|--------|
| Net Fee & Commission Income | 1,744.5 | 1,863.4 | -119.0 |
| Credit Card | 261.2 | 263.5 | -2.3 |
| Loan and FX-related | 573.2 | 483.9 | 89.3 |
| Asset Management | 651.5 | 778.0 | -126.6 |
| Beneficiary Certificates | 99.5 | 132.8 | -33.3 |
| Brokerage | 131.0 | 231.5 | -100.5 |
| Trust Fees | 311.6 | 306.5 | 5.1 |
| Bancassurance | 40.6 | 31.0 | 9.7 |
| M&A Advisory | 186.5 | 242.1 | -55.6 |
| Others | 72.0 | 95.9 | -23.8 |
| Gains on Disposition & Valuation | 364.3 | 504.7 | -140.4 |
| Other Operating Income | -690.6 | -591.2 | -99.4 |
| Dividend Income | 343.4 | 361.8 | -18.5 |
| Contribution to the Credit Guaranteed Fund | -423.2 | -373.0 | -50.2 |
| Deposit Insurance Fee | -467.4 | -455.8 | -11.6 |
| Others | -143.3 | -124,2 | -19.1 |
| Total | 1,418.2 | 1,777.0 | -358.8 |

III. SUMMARIZED GROUP FINANCIAL POSITION

Hana Financial Group has focused on diversifying its business portfolio to bolster its global and non-bank operations while pursuing profitable asset-oriented qualitative growth. As a result, it maintained sound asset growth in 2022 as the Group's total assets went up 13.2% YoY to KRW 569 trillion at the end of the year. The Group-wide concerted effort towards risk management during the prolonged pandemic, NPL ratio inched up 0.02%p YoY to 0.34% with a stable delinquency rate of 0.30%. Overall, its asset quality indicators remained within reassuring ranges.

Breaking down by segment, loan assets, which account for the majority of interest-earning assets, increased by 6.9% YoY to KRW 362,712.8 billion. KRW loans rose by 7.0% YoY to KRW 292,021.8 billion, primarily driven by growth in corporate and household loans. FX loans also increased by 12.9% YoY to KRW 32,507.5 billion in 2022.

TABLE 4, CONDENSED BALANCE SHEETS (CONSOLIDATED)

| | 2022 | 2021 | YoY |
|--|-----------|-----------|----------|
| Interest Earning Assets | 489,054.6 | 435,866.5 | 53,188.2 |
| Due from Banks | 27,922.9 | 16,361.1 | 11,561.8 |
| Securities | 98,418.9 | 80,257.2 | 18,161.7 |
| Loans | 362,712.8 | 339,248.2 | 23,464.6 |
| Other Revenue Earning Assets | 20,088.6 | 16,882.6 | 3,205.9 |
| Non-Revenue Earning Assets | 59,730.0 | 49,696.2 | 10,033.8 |
| Total Assets | 568,873.2 | 502,445.3 | 66,427.9 |
| Interest Bearing Liabilities | 481,635.9 | 429,242.3 | 52,393.6 |
| Deposits | 362,738.0 | 325,344.7 | 37,393.3 |
| Borrowings | 37,473.7 | 30,735.3 | 6,738.3 |
| Debentures | 56,673.8 | 54,476.2 | 2,197.7 |
| Policy Reserve | 4,698.4 | 4,376.7 | 321.7 |
| Borrowings from Trust Accounts | 7,882.9 | 5,874.1 | 2,008.8 |
| Non-Interest Bearing Liabilities | 49,818.5 | 37,703.7 | 12,114.9 |
| Total Liabilities | 531,454.3 | 466,945.9 | 64,508.4 |
| Shareholders' Equity | 37,418.9 | 35,499.3 | 1,919.5 |
| Total Liabilities & Shareholders' Equity | 568,873.2 | 502,445.3 | 66,427.9 |
| | | | |

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Total liabilities increased by 13.8% YoY to KRW 531,454.3 billion. The year-end deposit balance amounted to KRW 362,738.0 billion, up 11.5% from the previous year. Borrowings grew by 21.9% YoY to reach KRW 37,473.7 billion at the end of 2022. Shareholders' equity also increased 5.4% YoY to KRW 37,418.9 billion, led by growth in retained earnings from the constructive consolidated net income and additional issuance of hybrid bonds during the year.

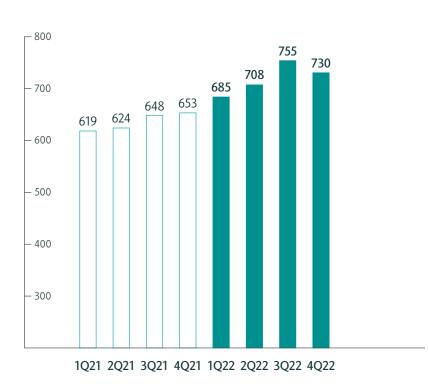
IV. ASSET QUALITY

Total credit grew by 7.9% YoY to KRW 372,001.9 billion, including NPLs of KRW 1,260.1 billion. Precautionary & below ratio went up by 26 bps YoY to record 1.36%, and NPL ratio was up 2bps for the same period. Still, the overall asset quality remained stable. In preparation for economic recession from the prolonged pandemic and the resultant increase in default risk, the Group set aside additional provision for credit losses for a second straight year, resulting in an 18.60%p YoY growth in NPL coverage ratio, which ended the year at 195.86%.

Hana Bank, the Group's major subsidiary, achieved sound asset growth, primarily in the corporate banking sector in 2022, with large corporate loans of KRW 10.8 trillion and SME loans amounting to KRW 9.0 trillion. The exposure to retail and SOHO customers, sensitive to macroeconomic changes, declined by 3.5%p and 0.7%p, respectively, YoY.

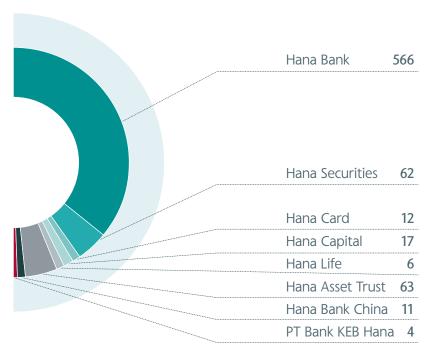
GROUP TOTAL ASSETS

(Unit: KRW trillion)



GROUP SUBSIDIARIES' ASSETS

(Unit: KRW trillion)



The Bank regularly reviews its credit exposure to large corporates and updates the watchlist each year, considering both financial and non-financial risk factors associated with its operations and the chances of facing liquidity crisis and responsiveness to such crises. The Bank preemptively manages its exposure to borrowers on the watchlist through in-depth monitoring for early signs of major risks, credit rating changes, or restructuring process.

In addition, the Group preemptively manages a watchlist of industries at risk to control industrial risks stemming from the pandemic, economic recession, PF crisis, interest rate hikes, and commodity price rise. The Group closely monitors cyclical industries, such as construction, real estate leasing, food and beverage through regular monitoring and stringent management of related companies.

For corporate clients with large exposures, the Group's sales, credit evaluation, and risk management divisions cooperate to rigorously check and analyze the business status and risk factors for preemptive responses.

TABLE 5. ASSET QUALITY AND LOAN LOSS PROVISION

| | | (Unit: KRW in billion | | |
|---|-----------|-----------------------|----------|--|
| | 2022 | 2021 | YoY | |
| Total Credit | 372,001.9 | 344,780.2 | 27,221.7 | |
| Normal | 366,928.1 | 340,975.0 | 25,953.1 | |
| Precautionary | 3,813.8 | 2,692.7 | 1,121.1 | |
| Substandard | 639.9 | 576.5 | 63.4 | |
| Doubtful | 385,3 | 320.2 | 65.1 | |
| Estimated Loss | 234.9 | 215.9 | 19.0 | |
| Precautionary & Below | | | | |
| Amount | 5,073.9 | 3,805.2 | 1,268.6 | |
| Ratio | 1.36% | 1.10% | 0,26%p | |
| Substandard & Below (NPL) | | | | |
| Amount | 1,260.1 | 1,112.5 | 147.6 | |
| Ratio | 0.34% | 0.32% | 0.02%p | |
| Loan Loss Allowance | 4,825.4 | 4,409.1 | 416.3 | |
| Loan Loss Reserve | 2,468.0 | 1,972.0 | 496.0 | |
| Credit Loss Reserve | 2,360.9 | 2,437.0 | -76.1 | |
| Substandard & Below (NPL) Coverage Ratio | 195.86% | 177.26% | 18.60%p | |
| | | | | |

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V. CAPITAL ADEQUACY

The Group's total BIS capital amounted to KRW 37,634.7 billion in 2022, an increase of KRW 2,159.0 billion or 6.1% YoY. Risk-weighted assets (RWA) rose by KRW 22,344.7 billion, or 10.3%, YoY to KRW 240,112.7 billion. As a result, BIS capital adequacy ratio decreased by 0.62%p YoY to 15.67% at the end of 2022.

TABLE 6. BIS CAPITAL AND RATIO

(Unit: KRW in billion)

| | 2022 | 2021 | YoY |
|------------------------------|-----------|-----------|----------|
| Common Equity Tier 1 Capital | 31,592.7 | 30,001.3 | 1,591.4 |
| Additional Tier 1 Capital | 3,494.6 | 2,983.4 | 511.2 |
| Tier 2 Capital | 2,547.4 | 2,491.0 | 56.4 |
| Total BIS Capital | 37,634.7 | 35,475.7 | 2,159.0 |
| Risk-Weighted Assets | 240,112.7 | 217,768.0 | 22,344.7 |
| BIS Capital Adequacy Ratio * | 15.67% | 16.29% | -0.62%p |
| Tier 1 Ratio | 14.61% | 15.15% | -0.54%p |
| Common Equity Tier 1 Ratio | 13,16% | 13.78% | -0.62%p |
| | | | |

^{*} Based on Basel III standards

GROUP NEW NPL & NPL RATIO

(Unit: KRW billion, %)



Common equity Tier 1 capital increased by KRW 1,591.4 billion YoY, mainly led by the recognition of net income for the year as common equity capital. Additional Tier 1 capital grew by KRW 511.2 billion, while Tier 2 capital increased by KRW 56.4 billion over the previous year.

The Group's total RWA increased by KRW 22,354.2 billion YoY in 2022 on the strength of a KRW 18,780.7 billion YoY increase in credit RWA, as well as a YoY growth of KRW 2,068.6 billion and KRW 1,504.8 billion in market RWA and operational RWA, respectively.

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Management's Discussion and Analysis



I. OVERVIEW

In 2022, the aftermath of the pandemic and the Russo-Ukraine War together brought the global supply chain to a near-standstill, feeding people's fears of inflation. In response, governments around the world, led by the U.S., adopted intensely austere measures, resulting in an unprecedentedly challenging financial environment mired in rising inflation as well as high exchange and interest rates.

Against this backdrop, Hana Bank still demonstrated robust performance results through its strategic increase of high-quality assets and sales activities. While bolstering core business competencies by digitalizing retail banking operations and enhancing asset management/corporate finance capabilities, the Bank accelerated the fostering of its core key strategic businesses and established a comprehensive financial platform. At the same time, Hana Bank pushed forward with laying the groundwork for sustainable growth through preemptive risk management and ESG management centered on customers and the market,

In 2023, the Bank foresees even higher volatility in global financial markets, with Big Tech's incursion expected to increase the competitive landscape of the market.

In anticipation of these realities, Hana Bank will differentiate core business models by expanding the customer base and solidify digital business infrastructure by expanding finance platform ecosystem and realizing omnichannel customer engagement. Going forward, Hana Bank will not relent in efforts to grow its global business and strengthen preemptive risk management. As a financial company, the Bank will meet the social demand for ESG management by pursuing socially responsible finance in order to be a leader in the industry.

II. SUMMARY OF BUSINESS PERFORMANCE

TABLE 1. COMPREHENSIVE INCOME STATEMENT (SEPARATED)

(Unit: KRW in billion)

| | | (01116-14111111 | | |
|--|---------|-----------------|---------|--|
| | 2022 | 2021 | YoY | |
| General Operating Income | 7,503.7 | 6,132.7 | 1,371.0 | |
| Net Interest Income | 7,046.9 | 5,631.7 | 1,415.2 | |
| Net Fee and Commissions Income | 761.4 | 748.5 | 12.9 | |
| Gains on Disposition & Valuation | 450.0 | 346.8 | 103.2 | |
| Other Operating Income | -754.6 | -594.3 | -160.3 | |
| General & Administrative Expenses | 3,036.2 | 2,733.5 | 302.7 | |
| Pre-Provisioning Operating Profit (PPOP) | 4,467.5 | 3,399.2 | 1,068.3 | |
| Credit Loss Provision | 395.7 | 138.6 | 257.1 | |
| Operating Income | 4,071.8 | 3,260.6 | 811.2 | |
| Non-Operating Income | -74.2 | -54.7 | -19.5 | |
| Net Income before Income Tax | 3,997.6 | 3,205.9 | 791.7 | |
| Income Tax Expense | 1,011.7 | 825.7 | 185.9 | |
| Net Income | 2,986.0 | 2,380.1 | 605.8 | |
| Cost to Income Ratio | 40.46% | 44.57% | -4.11%p | |
| | | | | |

In 2022, Hana Bank achieved a general operating income of KRW 7,503.7 billion, an increase of KRW 1,371.0 billion over the previous year.

Net interest income increased by KRW 1,415.2 billion YoY to KRW 7,046.9 billion, benefitting from both interest rate hikes as well as its efforts to build high-quality assets. Net fee and commissions income also increased by KRW 12.9 billion YoY to KRW 761.4 billion, despite the deteriorating internal and external economic conditions in the aftermath of COVID-19.

Gains on disposition and valuation increased by KRW 103.2 billion YoY to KRW 450.0 billion, driven by robust sales buoyed by the recovery of foreign exchange transactions by travelers and new demands for futures trading, as well as increased profits from the foreign exchange derivatives desk cashing in on the volatility of the foreign exchange market.

SG&A expenses increased by KRW 302.7 billion compared to the previous year due to the effect of extraordinary severance expenses at the beginning of the year and increased marketing expenses related to marketing activities. After SG&A expenses, PPOP stood at KRW 4,467.5 billion, an increase of KRW 1,068.3 billion from the previous year.

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Management's Discussion and Analysis

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Credit loss provision grew by KRW 257.1 billion YoY as a result of the KRW 285.6 billion preemptive provisioning for economic risk exposure for the year. Operating income reached KRW 4,071.8 billion, a YoY increase of KRW 811.2 billion. Non-operating income decreased by 19.5 billion YoY due to a decrease in gains on the disposition of tangible assets.

TABLE 2. NON-INTEREST INCOME (SEPARATED)

(Unit: KRW in billion)

| - | 2022 | 2021 | YoY |
|---|--------|--------|--------|
| Fee & Commissions Income | 761.4 | 748.5 | 12.9 |
| Credit Card | 0.2 | 0.1 | 0.1 |
| Loan & FX-related | 457.4 | 437.5 | 19.8 |
| Fees in Acceptances and Guarantees | 81.6 | 69.6 | 11.9 |
| Fees Related to Loans | 193.1 | 205.4 | -12.3 |
| Fees in Foreign Currencies | 182.7 | 162.5 | 20.2 |
| Asset Management | 303.9 | 310.9 | -7.1 |
| Sales of Beneficiary Certificate | 64.8 | 86.9 | -22.0 |
| Bancassurance | 51.2 | 44.9 | 6.3 |
| Trust Fees | 187.8 | 179.2 | 8.6 |
| Gains on Disposition & Valuation | 450.0 | 346.8 | 103.2 |
| Other Operating Income | -754.6 | -594.3 | -160.3 |
| Dividend Income | 60.5 | 131.7 | -71.1 |
| Deposit Insurance Fee | -442.8 | -437.8 | -5.0 |
| Contribution to the Credit Guarantee Fund | -423.2 | -373.0 | -50.2 |
| Others | 50.9 | 84.8 | -34.0 |

Fee & commissions income edged up by YoY KRW 12.9 billion, or 1.7%, to reach KRW 761.4 billion. Gains on disposition and valuation increased by YoY KRW 103.2 billion, or 29.8%, to reach KRW 450.0 billion. Other operating income decreased by KRW 160.3 billion YoY, resulting in a KRW 754.6 billion loss.

Breaking down the fee income, sales of beneficiary certificates affected by the bearish stock market declined by KRW 22.0 billion, which was offset by the KRW 20.2 billion growth of FX fee driven by the recovering travel demand, coupled with the steady growth in bancassurance and trust fees. As a result of our consistent efforts to increase our assets, fees in guarantees also grew by KRW 11.9 billion over the previous year.

Gains on disposition and valuation jumped by 29.8% YoY to KRW 450.0 billion. Increased volatility in exchange rates propped up our FX/derivative-related gains, including demand for futures trading. FX translation loss decreased from a KRW 154.6 billion loss in 2021 to a KRW 91.5 billion loss in 2022 as the exchange rate stabilized toward the end of the year.

Other operating losses grew by KRW 160.3 billion YoY due to the KRW 5.0 billion rise in deposit insurance fees and an increase of KRW 50.2 billion in our contribution to the credit guarantee, coupled with a KRW 71.1 billion decrease in dividend income from alternative and equity investments due to the sluggish investment markets.

TABLE 3. GENERAL AND ADMINISTRATIVE EXPENSES (SEPARATED)

(Unit: KRW in billion)

| | 2022 | 2021 | YoY |
|-----------------------------------|---------|---------|---------|
| General & Administrative Expenses | 3,036.2 | 2,733.5 | 302.7 |
| Salaries and Employment Benefits | 1,503.0 | 1,517.3 | -14.3 |
| Severance and Retirement Benefits | 319.1 | 160.0 | 159.0 |
| Administrative Expenses | 721.1 | 594.0 | 127.0 |
| Depreciation and Amortization | 388.3 | 383.5 | 4.8 |
| Taxes and Dues | 104.8 | 78.6 | 26.2 |
| Cost to Income Ratio | 40.46% | 44.57% | -4.11%p |

SG&A expenses increased by KRW 302.7 billion YoY to KRW 3,036.2 billion. Salaries and employment benefits decreased by KRW 14.3 billion YoY due to the base effect of bonus payments from the previous year.

In 2022, severance and retirement benefits increased by KRW 159.0 billion YoY to KRW 319.1 billion as a result of payments for early retirement in 2022. Administrative expenses increased by KRW 127.0 billion YoY due to the contribution to the Employee Welfare Fund, increased IT outsourcing, and augmented digital marketing campaigns. Still, the expense is well managed within the 10% range of the general operating income, which was KRW 7,503.7 billion for the year.

Cost to income ratio continued to improve in 2022, declining by another 4.11%p from the previous year.

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Management's Discussion and Analysis

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III. SUMMARIZED FINANCIAL POSITION

In 2022, Hana Bank's total assets amounted to KRW 466,138.2 billion, a YoY increase of KRW 54,276.6 billion. By category, interest-earning assets, including deposits and loan receivables, and other revenue-earning and non-revenue-earning assets all increased as well. Interest-earning assets amounted to KRW 406,225.1 billion, a YoY increase of KRW 44,620.9 billion.

Corporate loans, including public loans, rose by KRW 17,194.1 billion YoY, mostly in SME loans of low risk-weighted assets (RWA). Household loans, however, decreased by KRW 1,174.9 billion YoY due to sagging demand in the sluggish real estate. All in all, KRW loans increased by KRW 16,025.2 billion YoY.

Interest-bearing liabilities increased by KRW 43,230.4 billion YoY, and were led by deposits and borrowings. Shareholders' equity rose by KRW 1,091.4 billion YoY as a result of a robust net income of KRW 2,986.0 billion, even after dividend payments of KRW 1,450.0 billion in 2022.

TABLE 4. CONDENSED BALANCE SHEETS (SEPARATED)

(Unit: KRW in billion)

| | 2022 | 2021 | YoY |
|--|-----------|-----------|----------|
| Interest Earning Assets | 406,225.1 | 361,604.2 | 44,620.9 |
| Due from Banks | 20,994.2 | 10,975.1 | 10,019.2 |
| Fixed Income Securities | 69,051.0 | 54,777.6 | 14,273.4 |
| Loans | 316,179.8 | 295,851.6 | 20,328.2 |
| Other Revenue Earning Assets | 10,514.0 | 9,518.4 | 995.6 |
| Stocks and Others | 10,514.0 | 9,518.4 | 995.6 |
| Non-Revenue Earning Assets | 49,399.1 | 40,739.0 | 8,660.1 |
| Total Assets | 466,138.2 | 411,861.6 | 54,276.6 |
| Interest Bearing Liabilities | 399,319.0 | 356,088.6 | 43,230.4 |
| Deposits | 344,070.5 | 306,614.2 | 37,456.3 |
| Borrowings | 20,790.2 | 15,572.4 | 5,217.9 |
| Debentures | 26,204.5 | 27,640.8 | -1,436.2 |
| Borrowings from Trust Accounts | 8,091.7 | 6,065.7 | 2,026.0 |
| Non-Interest Bearing Liabilities | 38,276.5 | 28,321.7 | 9,954.8 |
| Total Liabilities | 437,595.5 | 384,410.3 | 53,185.2 |
| Shareholders' Equity | 28,542.7 | 27,451.3 | 1,091.4 |
| Total Liabilities & Shareholders' Equity | 466,138.2 | 411,861.6 | 54,276.6 |

KRW loans totaled KRW 273,972.4 billion, a YoY increase of KRW 17,261.2 billion. Corporate loans increased by KRW 18,436.1 billion YoY, with a YoY increase of KRW 5,372.0 billion for large corporates and a KRW 10,751.3 billion YoY growth in SME loans, including SOHO. Household loans decreased by 1,174.9 billion YoY due to a decline in demand for credit and mortgage loans amid the contracting asset markets, which included a bearish stock market and slowing growth dampened by housing market regulations, excluding the end user–driven jeonse loan.

KRW deposits totaled KRW 293,507.3 billion, a YoY increase of KRW 25,216.2 billion. Serial interest rate hikes began reversing the money move phenomenon in 2022, resulting in a YoY decline of KRW 12,163.4 billion in low-cost funding (LCF) and a YoY growth of KRW 30,902.2 billion in time deposits.

TABLE 5. KRW LOANS & DEPOSITS

| | 2022 | 2021 | YoY |
|-------------------------------------|-----------|-----------|-----------|
| KRW Loans | 273,972.4 | 256,711.2 | 17,261.2 |
| Loans to Corporate | 144,828.5 | 126,392.4 | 18,436.1 |
| SME | 120,397.1 | 109,645.8 | 10,751.3 |
| (SOHO) | 58,474.8 | 56,163.8 | 2,311.0 |
| Large Corporate | 19,649.2 | 14,277.3 | 5,372.0 |
| Others | 4,782.2 | 2,469.4 | 2,312.8 |
| Loans to Households | 129,143.9 | 130,318.8 | -1,174.9 |
| KRW Deposits 1) | 293,507.3 | 268,291.2 | 25,216.2 |
| Low Cost Funding | 112,146.4 | 124,309.9 | -12,163.4 |
| Core Deposits | 76,601.2 | 88,801.0 | -12,199.9 |
| Money Market Deposit Account (MMDA) | 35,545.3 | 35,508.8 | 36.5 |
| Time Deposits | 162,723.9 | 131,821.7 | 30,902.2 |
| Installment Deposits | 5,558.4 | 5,778.6 | -220.3 |
| Core Deposits & Others | 13,078.6 | 6,406.6 | 6,672.0 |

¹⁾ Excluding foreign currency and trust deposits

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IV. ASSET QUALITY

At the end of 2022, total credit stood at KRW 317,974.6 billion, an increase of KRW 22,948.9 billion compared to the previous year. The increase in normal credit was the main factor, with substandard and below loans decreasing by KRW 93,9 billion YoY.

Our consistent monitoring and management of non-performing loans (NPLs) and risk management contributed to improving both the precautionary & below ratio (0.01%p) and substandard & below ratio (0.05%p) to reach 0.80% and 0.21%, respectively. NPL coverage ratio increased by 63,38%p YoY to 227,32% due to the preemptive provisioning and management for loan loss reserves against COVID-19.

TABLE 6. ASSET QUALITY AND LOAN LOSS PROVISION

(Unit: KRW in billion)

| | (01110-121747111 | | - KIKVV III DIIIIOII) |
|--|------------------|-----------|-----------------------|
| | 2022 | 2021 | YoY |
| Total Credit | 317,974.6 | 295,025.6 | 22,948.9 |
| Normal | 315,439.7 | 292,648.9 | 22,790.7 |
| Precautionary | 1,871.6 | 1,619.6 | 252.0 |
| Substandard | 427.6 | 470.5 | -42.9 |
| Doubtful | 124,5 | 179.0 | -54.5 |
| Estimated Loss | 111,2 | 107.7 | 3.6 |
| Precautionary & Below | | | |
| Amount | 2,534.9 | 2,376.7 | -85.8 |
| Ratio | 0.80% | 0.81% | -0.01%p |
| Substandard & Below (NPL) | _ | | |
| Amount | 663.3 | 757.1 | -93.9 |
| Ratio | 0.21% | 0.26% | -0.05%p |
| Loan Loss Reserves | 1,507.7 | 1,241.2 | 266.5 |
| Substandard & Below (NPL) Coverage Ratio 1) | 227.32% | 163.94% | 63.38%p |

¹⁾ Excluding Credit Loss Reserves

V. CAPITAL ADEQUACY

In 2022, Hana Bank made continuous efforts to bolster its capital adequacy, such as increasing retained earnings through income growth and issuing KRW 296.0 billion in subordinated bonds.

Despite the increase in Tier 2 capital, the BIS capital ratio as of the end of 2022 decreased slightly to 16.63% due to RWA growth that stemmed from asset growth and increased market volatility. Still, it remains above regulatory requirements, with capital adequacy expected to improve starting from 2023 as the total BIS capital ratio is expected to rise under the Basel III final guidelines.

Hana Bank plans to maintain an appropriate level of capital by increasing our retained earnings through continuous income growth, while continuing our efforts to maintain a sound level of capital adequacy through the stable management of risk-weighted assets.

TABLE 7. BIS CAPITAL AND RATIO

| | (Unit | : KRW in billion) |
|-----------|--|--|
| 2022 | 2021 | YoY |
| 28,247.2 | 27,329.7 | 917.6 |
| 27,877.0 | 26,917.0 | 960.0 |
| 370.3 | 412.7 | -42.4 |
| 3,422.4 | 3,483.1 | -60.7 |
| 273.9 | 236.0 | 37.9 |
| 2,993.1 | 3,226.9 | -233.9 |
| 155.4 | 20.1 | 135.3 |
| 31,669.6 | 30,812.7 | 856.9 |
| 190,401.9 | 178,733.5 | 11,668.4 |
| | | |
| 14.64% | 15.06% | -0.42%p |
| 14.84% | 15.29% | -0.46%p |
| 16.63% | 17.24% | -0.61%p |
| | 28,247.2 27,877.0 370.3 3,422.4 273.9 2,993.1 155.4 31,669.6 190,401.9 | 2022 2021 28,247.2 27,329.7 27,877.0 26,917.0 370.3 412.7 3,422.4 3,483.1 273.9 236.0 2,993.1 3,226.9 155.4 20.1 31,669.6 30,812.7 190,401.9 178,733.5 14.64% 15.06% 14.84% 15.29% |

¹⁾ Based on Basel III standards

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Management's Discussion and Analysis



I. OVERVIEW

The year 2022 was challenging for the securities business at home and abroad: supply chain disruption caused by the Russo-Ukrainian War and the US Fed's bigger-than-anticipated steps in raising the interest rates. Falling asset values drove investors out of the stock markets, who fled to risk-free assets. As a result, securities firms had to endure sluggish brokerage fee income and low sales of financial products.

Furthermore, falling stock prices depreciated the valuation of securities in holdings, and the slowing real estate economy caused insolvency in some of our alternative investment assets. Worse still, rising interest rates deteriorated our return on bond investments. All sectors performed poorly.

As a result, Hana Securities' general operating income decreased by 35.4% YoY to KRW 804.5 billion, and net income dropped by 72.4% YoY to KRW 155.8 billion. ROE and C/I Ratio decreased YoY, reaching 2.47% and 62.5%, respectively.

TABLE 1. SUMMARIZED FINANCIAL INFORMATION (SEPARATED)

(Unit: KRW in billion)

| | 2022 | 2021 | YoY |
|--------------------------|-----------|-----------|-----------|
| Business Volume | | | |
| Total Assets | 40,676.1 | 34,432.6 | 6,243.5 |
| Shareholders' Equity | 5,847.7 | 5,307.1 | 540.6 |
| Profitability | | | |
| General Operating Income | 804.5 | 1,246.0 | -441.5 |
| Operating Income | 201.6 | 695.3 | -493.7 |
| Net Income | 155.8 | 563.9 | -408.1 |
| ROA | 0.40% | 1.63% | -1.23%p |
| ROE | 2.74% | 11.56% | -8.82%p |
| Cost to Income Ratio | 62,51% | 43.10% | 19.41%p |
| Capital Adequacy | | | |
| Net Capital Ratio | 1,051.19% | 1,192.31% | -141.12%p |
| | | | |

^{*} ROA is based on the average year-end balance.

II. SUMMARY OF BUSINESS PERFORMANCE

The deteriorating macroeconomic conditions at home and overseas in 2022 affected the company's investment banking business, with its brokerage fee income shrinking from declining stock market trading volume and delays/cancellations of major IB deals due to the crunching real estate markets. Overall, the prevalent risk factors across the securities business, such as valuation losses on bond investments due to widening credit spreads, resulted in a YoY decrease of KRW 408.1 billion in net income after tax, which stood at KRW 155.8 billion for 2022.

TABLE 2. COMPREHENSIVE INCOME STATEMENT (SEPARATED)

(Unit: KRW in billion)

| | | (0 | |
|--|--------|---------|--------|
| | 2022 | 2021 | YoY |
| General Operating Income | 804.5 | 1,246.0 | -441.5 |
| Net Interest Income | 331.3 | 253.7 | 77.6 |
| Net Fee and Commissions Income | 491.7 | 749.7 | -258.0 |
| Gains on Disposition & Valuation | -133.8 | 137.7 | -271.5 |
| Other Operating Income | 115.4 | 105.0 | 10.4 |
| General & Administrative Expenses | 502.9 | 537.0 | -34.1 |
| Pre-Provisioning Operating Profit (PPOP) | 301.6 | 709.0 | -407.4 |
| Credit Loss Provision | 100.1 | 13.8 | 86.3 |
| Operating Income | 201.6 | 695.3 | -493.7 |
| Non-Operating Income | 18.6 | 69.1 | -50.5 |
| Income before Income Tax | 220.2 | 764.3 | -544.2 |
| Income Tax Expense | 64.3 | 200.4 | -136.1 |
| Net Income | 155.8 | 563.9 | -408.1 |
| | | | |

General operating income decreased by 35.4% YoY to KRW 804.5 billion. The falling trading volume in the stock market brought down the fee income by 34.4% YoY to KRW 491.7 billion. Still, net interest income increased 30.6% YoY to KRW 331.3 billion owing to interest income from credit lines and over-the-counter derivatives investment

KOSPI closed the year at 2,236.40p, down 25% YoY, and the base rates ended the year at 3.25%, up 2,25%p YoY. The plunging stock prices and soaring interest rates resulted in a KRW 133.8 billion YoY loss on disposition and valuation. Other operating income edged up a little to KRW 115.4 billion thanks to an increase in dividend income from the holding assets.

^{*} Net capital ratio is on a consolidated basis.

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Management's Discussion and Analysis

THANA SECURITIES

SG&A expenses decreased by KRW 34.1 billion YoY to KRW 502.9 billion, reflecting a decline in performance-linked bonuses due to lower general operating income. This translated into a C/I ratio of 62.5%. Credit loss provisions as part of our proactive risk management amounted to KRW 100.1 billion, up by KRW 86.3 billion from the previous year.

Despite the challenging market environment, Hana Securities posted a net income of KRW 155.8 billion in 2022.

Rising interest rates and inflation fears dampened market players' investment sentiment, resulting in a 34.4% YoY decrease in fees and commissions income to KRW 491.7 billion in 2022. Brokerage commissions fell by KRW 100.5 billion YoY to KRW 131.0 billion due to plunging stock prices (KOSPI \triangle 25%, KOSDAQ \triangle 34%) and contracting trading volume (daily market average \triangle 38% YoY), while commissions on M&As decreased YoY to KRW 41.7 billion and KRW 149.3 billion respectively due to the downturn in the real estate market.

TABLE 3. FEE & COMMISSIONS INCOME (SEPARATED)

(Unit: KRW in billion)

| 2022 | 2021 | YoY |
|-------|---|--|
| 491.7 | 749.7 | -258.0 |
| 131.0 | 231.5 | -100.5 |
| 83.3 | 111.8 | -28.5 |
| 41.7 | 96.1 | -54.5 |
| 149.3 | 163.8 | -14.5 |
| 86.4 | 146.4 | -60.0 |
| | 491.7 131.0 83.3 41.7 149.3 | 491.7 749.7 131.0 231.5 83.3 111.8 41.7 96.1 149.3 163.8 |

SG&A expenses decreased by KRW 34.1 billion YoY to KRW 502,9 billion in 2022. Amid the challenging market environment in Korea and overseas, general operating income decreased across all segments. Salaries and employee benefits decreased by KRW 47.4 billion YoY. Still, administrative expenses, which are more of a fixed cost by nature, increased by KRW 23.1 billion YoY, resulting in an increase of 19.41%p YoY in the C/I ratio, which stood at 62.51%.

Salaries and employee benefits decreased by KRW 47.4 billion YoY to KRW 283.8 billion on the effect of reduced performance-linked bonuses, and the reserves for severance and retirement benefits decreased by 30.0% YoY to KRW 15.8 billion due to the base effect of the voluntary retirement at the end of 2021.

Administrative expenses increased by KRW 23.1 billion from the previous year to KRW 143.8 billion, and the main reasons for the increase include IT system expenses (up KRW 6.0 billion YoY), advertising expenses (up KRW 5.6 billion YoY), and KRW 3.0 billion was spent on expenses for renaming of the company.

TABLE 4. GENERAL AND ADMINISTRATIVE EXPENSES (SEPARATED)

(Unit: KRW in billion)

| | 2022 | 2021 | YoY |
|-----------------------------------|--------|--------|---------|
| General & Administrative Expenses | 502.9 | 537.0 | -34.1 |
| Salaries and Employment Benefits | 283.8 | 331.2 | -47.4 |
| Severance and Retirement Benefits | 15.8 | 22.6 | -6.8 |
| Administrative Expenses | 143.8 | 120.7 | 23.1 |
| Depreciation and Amortization | 42.0 | 45.4 | -3.4 |
| Taxes and Dues | 17.5 | 17.1 | 0.4 |
| Cost to Income Ratio | 62.51% | 43.10% | 19.41%p |

III. KEY FIGURES

In 2022, the US Fed's interest rate hikes and the resultant asset depreciation impacted the company's assets under management (AUM). The most significant drop in the AUM occurred in bonds and MMF-type beneficiary certificates, which are most sensitive to interest rate hikes, falling by KRW 226.6 billion and KRW 499.6 billion, respectively. Nevertheless, the loss was offset by a KRW 948.8 billion YoY growth in our return on alternative investments, resulting in an AUM similar to that of the previous year at KRW 29.2 trillion.

In the financial products segment, due to the lower return on investments and shift of capital to risk-free assets, increased over the course of the year, ending the year at a KRW 5.5 trillion YoY drop to KRW 38.9 trillion. Hana Securities issued mid-risk/mid-return ELBs and DLBs to compensate for the other financial product sales. Still, the KRW 1.1 trillion YoY growth was insufficient to cover up the declining return on bond-type trusts arising from the interest rate hikes, leading to the overall drop in financial product sales.

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Management's Discussion and Analysis

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TABLE 5. AUM BREAKDOWN

(Unit: KRW in billion)

| | 2022 | 2021 | YoY |
|-----------------------------|-----------|-----------|-----------|
| Customer Assets of HS (AUM) | 113,148.0 | 132,868.2 | -19,720.2 |
| Beneficiary Certificates | 29,222.9 | 29,003.6 | 219.3 |
| Equity (Hybrid) Type | 2,561.3 | 2,564.5 | -3.2 |
| Fixed Income (Hybrid) Type | 4,832.9 | 5,059.5 | -226.6 |
| MMF | 4,903.2 | 5,402.8 | -499.6 |
| Other | 16,925.6 | 15,976.8 | 948.8 |
| Financial Products | 38,917.7 | 44,418.6 | -5,500.9 |
| Trust | 18,554.2 | 25,384.2 | -6,830.0 |
| RP | 2,981.3 | 3,642.0 | -660.7 |
| Fixed Income/CD/CP | 13,364.3 | 12,477.0 | 887.3 |
| Other | 4,018.0 | 2,915.4 | 1,102.5 |
| Entrusted Assets | 45,007.4 | 59,446.0 | -14,438.6 |
| Market | 831,135.0 | 785,687.0 | 45,448.0 |
| M/S | 3.52% | 3.69% | -0.17%p |

Hana Securities served as a lead manager of 10 initial public offerings (IPOs) in 2022, raising a total of KRW 210.0 billion in public funding; the company ranked 12th in the IPO league table. The issuance volume dropped due to the slowdown in the IPO market throughout the year.

Still, the company topped the derivatives-linked securities (DLS) issuance market for the third quarter of 2022. Regarding the annual total issuance value, Hana Securities ranked third place with KRW 956.7 billion. The company excelled in ELS and DLS issuance market and secured the predominantly largest market share of 22.2% of the private DLS sector. Given the current developments in the fundamental economic indicators, the IPO market slowdown is forecast to continue in 2023. In anticipation of a growing demand for capital in the alternatives issuance market, Hana Securities will carefully analyze the potential need for hybrid bonds and prepare for effective product distribution by leveraging its competitive edge in the market.

TABLE 6. ACQUISITION AND ISSUANCE

(Unit: KRW in billion)

| | | | , |
|---------------------------------------|---------|---------|---------|
| | 2022 | 2021 | YoY |
| IPO & Capital Increase (Lead-managed) | 210.0 | 359.2 | -149.3 |
| ELS/DLS Issued (ELB/DLB included) | 9,567.0 | 6,941.7 | 2,625.3 |

As seen in the recent performance of KOSPI, which fell by 741p, or 25%, YoY to 2,236.40p at the end of 2022, and average daily trading volume fell by 38% YoY to KRW 18.8 trillion, eroding into the brokerage fee income for Hana Securities. Furthermore, the online trading volume dropped 46.0% YoY to KRW 129.5 trillion, leading to a 38.6% YoY decrease in the brokerage contract volume. The company's market share of brokerage contracts remained at 1.90%, slightly lower than the previous year.

TABLE 7. BROKERAGE CONTRACTS

(Unit: KRW in billion)

| | 2022 | 2021 | YoY |
|---------------------|-------------|--------------|------------|
| Brokerage Contracts | 176,310.8 | 293,511.8 | -117,201 |
| OFF | 46,815.2 | 53,920.9 | -7,106 |
| ON | 129,495.6 | 239,590.9 | -110,095 |
| Market | 9,261,220.5 | 15,074,811.6 | -5,813,591 |
| M/S | 1.90% | 1.95% | -0.04%p |

Hana Securities will focus on enhancing the current services and revenue models of overseas stock trading and CFD services. At the same time, the company will explore new business opportunities, such as the STO (security token offering), and build competencies to provide timely products catering to the segmented needs of customers.

IV. ASSET QUALITY

In 2022, total credit decreased by KRW 1,487.9 billion from KRW 9,653.1 billion in 2021 to KRW 8,165.2 billion.

The drop can be explained by a KRW 603.2 billion YoY decrease in the lines of credit, a KRW 6.5 billion YoY decline in loan assets, a KRW 262.9 billion YoY reduction of accounts receivable and accrued revenue, a KRW 860.9 billion YoY drop in debt guarantees, and a KRW 1.1 billion YoY drop in loan write-off. NPL ratio increased by about 4.78%p from the previous year, and loan loss reserve increased by about KRW 94.4 billion compared to last year. This is attributable to an increase in the substandard & below loans in tandem with the growth in NPLs.

NPL coverage ratio decreased by 42.9%p YoY to 110.53%. As of 2022, loan loss reserve stayed at an appropriate level considering the recoverability of individual assets so as to steer clear of further losses.

HANA SECURITIES

V. CAPITAL ADEQUACY

As of 2022, net capital ratio stood at 1,051.2%, down 141.1%p YoY, well above the regulatory guidelines set by the Financial Supervisory Service (100%) and the more conservative target (200%) set by Hana Securities' Risk Management Committee.

TABLE 8. ASSET QUALITY AND LOAN LOSS PROVISION

(Unit: KRW in billion)

| | | (0 | |
|---------------------------|---------|---------|----------|
| | 2022 | 2021 | YoY |
| Total Credit | 8,165.2 | 9,653.1 | -1,487.9 |
| Normal | 7,724.2 | 9,593.3 | -1,869.1 |
| Precautionary | 286.4 | 10.0 | 276.4 |
| Substandard | 44.0 | 2.6 | 41.4 |
| Doubtful | 105.6 | 42.1 | 63.4 |
| Estimated Loss | 5.0 | 5.0 | 0.0 |
| Precautionary & Below | | | |
| Amount | 441.0 | 59.8 | 381.2 |
| Ratio | 5.40% | 0.62% | 4.78%p |
| Substandard & Below (NPL) | | | |
| Amount | 154.6 | 49.8 | 104.8 |
| Ratio | 1.89% | 0.52% | 1.38%p |
| Loan Loss Reserve | 170.9 | 76.4 | 94.4 |
| Normal | 13.7 | 27.5 | -13.8 |
| Precautionary | 46.6 | 1.8 | 44.8 |
| Substandard | _ | - | 0.0 |
| Doubtful | 105.5 | 42.1 | 63.4 |
| Estimated Loss | 5.0 | 5.0 | 0.0 |
| Precautionary & Below | | | |
| Loan Loss Reserve | 157.2 | 48.9 | 108.2 |
| Coverage Ratio | 38.75% | 127.78% | -89.03%p |
| Substandard & Below (NPL) | | | |
| Loan Loss Reserve | 110.5 | 47.1 | 63.4 |
| Coverage Ratio | 110.53% | 153.43% | -42.90%p |

Net capital contracted by KRW 26.6 billion YoY to KRW 4,248.8 billion. Despite the KRW 500 billion YoY growth in shareholders' equity, net capital inched down due to several factors such as a KRW 130 billion YoY drop in subordinated bonds, and an increase of KRW 339.1 billion in unsecured loans over three months. Gross risk amount stood at KRW 2,837.8 billion, an increase of KRW 162.8 billion compared to the previous year. The growth in collective investment securities and loans drove the increase.

TABLE 9. NET CAPITAL RATIO

| (UTILL KRVV I | | L. KKVV III DIIIIOI I, |
|---------------|--|---|
| 2022 | 2021 | YoY |
| 4,248.8 | 4,275.4 | -26.6 |
| 5,846.0 | 5,321.2 | 524.8 |
| 56.9 | 67.8 | -11.0 |
| 330.0 | 460.0 | -130.0 |
| 128.8 | 138.1 | -9.2 |
| 92.3 | 39.6 | 52.7 |
| 1,534.3 | 1,195.2 | 339.1 |
| 228.7 | 200.8 | 27.9 |
| 2,837.8 | 2,675.0 | 162.8 |
| 1,709.8 | 1,573.5 | 136.3 |
| 910.0 | 864.3 | 45.7 |
| 30.6 | 39.2 | -8.6 |
| 187.4 | 198.0 | -10.6 |
| 0.0 | 0.0 | 0.0 |
| 1,051.19% | 1,192.31% | -141.13%p |
| | 4,248.8 5,846.0 56.9 330.0 128.8 92.3 1,534.3 228.7 2,837.8 1,709.8 910.0 30.6 187.4 0.0 | 2022 2021 4,248.8 4,275.4 5,846.0 5,321.2 56.9 67.8 330.0 460.0 128.8 138.1 92.3 39.6 1,534.3 1,195.2 228.7 200.8 2,837.8 2,675.0 1,709.8 1,573.5 910.0 864.3 30.6 39.2 187.4 198.0 0.0 0.0 |



I. OVERVIEW

In 2022, Hana Card recorded KRW 80.3 trillion in transaction volume, earning KRW 247.3 billion in operating income and KRW 192.0 billion in net income. On the back of reopening after the two years of pandemic, the company's transaction volume enjoyed a 14% YoY growth, outperforming the market's 10% expansion. In particular, its corporate card transaction volume jumped 28% YoY, reaching KRW 20 trillion. Despite the asset growth from increasing transaction volume, net income edged down due to merchant fee cuts and higher funding costs from interest rate hikes.

Nevertheless, the company continued expanding its customer base, with excellent credit ratings, locking in 910,000 subscribers, up 20% YoY. At the same time, it solidified the foundation for future growth through its digitalization initiative that expanded IT investments.

In anticipation of a challenging business environment from rising funding costs in 2023, Hana Card will tap into the Group's captive customer base through collaborations while reinforcing tailored product and service line-ups to continue growing its customer base and market share.

TABLE 1, SUMMARIZED FINANCIAL INFORMATION (CONSOLIDATED)

(Unit: KRW in billion)

| | | (OTHE TATE OF THE OTHER | | |
|--------------------------|----------|-------------------------|---------|--|
| | 2022 | 2021 | YoY | |
| Profitability | | | | |
| General Operating Income | 711.7 | 749.8 | -38.1 | |
| Operating Income | 247.3 | 344.5 | -97.2 | |
| Net Income | 192.0 | 250.5 | -58.5 | |
| ROA | 1.81% | 2.81% | -1.00%p | |
| ROE | 8.98% | 13.11% | -4.12%p | |
| Cost to Income Ratio | 34.49% | 29.59% | 4.90%p | |
| Business Volume 1) | 80,254.8 | 70,537.2 | 9,717.6 | |
| Lump-sum | 66,818.6 | 57,810.2 | 9,008.4 | |
| Installment | 7,292.3 | 6,066.3 | 1,226.1 | |
| Cash Advance | 3,097.7 | 3,098.4 | -0.8 | |
| Card Loans | 3,046.2 | 3,562.2 | -516.1 | |
| | | | | |

¹⁾ Other credit card assets and installments are included in credit sales.

At the same time, the company will continue with its digitalization initiative in pursuit of a Group-wide life-finance platform while fortifying profitability through profitdriven asset growth. It is also exploring new business opportunities, such as the credit card processing service, to diversify its revenue sources, which will minimize the macroeconomic impact on profitability.

II. SUMMARY OF BUSINESS PERFORMANCE

Net interest income declined KRW 76.6 billion YoY due to higher funding costs from interest rate hikes and a decrease in card loan revenue due to preemptive risk management. Net fee & commission income decreased KRW 7.1 billion YoY due to merchant fee cuts. Gains on disposition and valuation increased by KRW 25.1 billion owing to increased foreign exchange gains from the increased overseas transaction. Other operating income increased by KRW 20.4 billion due to higher gains on the disposition of bonds. SG&A expenses increased by KRW 23.6 billion due to peak salary special retirements and higher administrative expenses. Credit loss provision rose KRW 35.5 billion to match the asset growth. Hana Card's net income was down KRW 58.5 billion from KRW 250.5 billion in 2021 to KRW 192.0 billion in 2022.

TABLE 2. COMPREHENSIVE INCOME STATEMENT (CONSOLIDATED)

| (UTIL: KRVV ITI DIIIIOTI | | |
|--------------------------|--|---|
| 2022 | 2021 | YoY |
| 711.7 | 749.8 | -38.1 |
| 395.4 | 472.0 | -76.6 |
| 225.5 | 232.6 | -7.1 |
| 49.8 | 24.7 | 25.1 |
| 40.9 | 20.5 | 20.4 |
| 245.5 | 221.9 | 23.6 |
| 466.2 | 527.9 | -61.7 |
| 218.9 | 183.4 | 35.5 |
| 247.3 | 344.5 | -97.2 |
| -0.7 | -1.7 | 1.0 |
| 246.5 | 342.7 | -96.2 |
| 54.6 | 92.2 | -37.7 |
| 192.0 | 250.5 | -58.5 |
| | 711.7 395.4 225.5 49.8 40.9 245.5 466.2 218.9 247.3 -0.7 246.5 54.6 | 2022 2021 711.7 749.8 395.4 472.0 225.5 232.6 49.8 24.7 40.9 20.5 245.5 221.9 466.2 527.9 218.9 183.4 247.3 344.5 -0.7 -1.7 246.5 342.7 54.6 92.2 |

¹⁾ Other operating income includes transfer to reserve for unused credit loss provision and provisions for other allowances.

HANA CARD

Fee revenue edged up by KRW 112.8 billion YoY, driven by the KRW 19.0 billion YoY growth in credit card receivables and the KRW 139.6 billion YoY rise in overseas card purchases and secondary business income, offsetting the KRW 2.5 billion and KRW 43.4 billion YoY decline, respectively, in fee revenue from cash advances and card loans. Fee expenses went up KRW 119.8 billion due to the increased cost from a larger transaction volume.

TABLE 3. FEE STRUCTURE (CONSOLIDATED)

General & Administrative Expenses

Salaries and Employment Benefits

Severance and Retirement Benefits

Depreciation and Amortization

Administrative Expenses

Taxes and Dues

Cost to Income Ratio

(Unit: KRW in billion)

| | (| | |
|--------------------------------|---------|---------|-------|
| | 2022 | 2021 | YoY |
| Fee Revenue | 1,428.5 | 1,315.8 | 112.8 |
| Credit Card Receivables in Won | 553.7 | 534.7 | 19.0 |
| Cash Advance | 59.5 | 62.1 | -2.5 |
| Card Loan | 295,2 | 338.6 | -43.4 |
| Others | 520,1 | 380.4 | 139.6 |
| Fee Expenses | 1,203.0 | 1,083.2 | 119.8 |
| Fee Income | 225.5 | 232.6 | -7.1 |
| <u> </u> | | | |

SG&A expenses rose KRW 23.6 billion due to the peak salary special retirements and higher administrative expenses. C/I ratio was up 4.90%p from the previous year, driven by higher interest expenses due to increased one-off expenses, such as the peak salary special retirement and higher funding costs.

2022

245.5

88.6

19.1

88.3

37.4

12.1

34,49%

TABLE 4. GENERAL AND ADMINISTRATIVE EXPENSES (CONSOLIDATED)

2021 YoY

221.9 23.6

89.2 -0.6

9.4 9.7

79.7 8.6

30.1 7.3

13.6

29.59%

(Unit: KRW in billion)

-1.4

4.90%p

III. KEY FIGURES

Earning assets increased KRW 2,379.0 billion YoY as a result of a KRW 984.9 billion YoY growth in credit purchase on the back of the reopening and business card sales growth; a KRW 30.2 billion YoY growth in cash advances, mainly in performing assets, and a KRW 219.9 billion YoY in card loans.

The auto installment finance that the company commenced operation in 2021 enjoyed a remarkable KRW 940.3 billion, or 272%, growth from the previous year.

TABLE 5. EARNING ASSET PORTFOLIO

| | 2022 | 2021 | YoY |
|-----------------------------|----------|---------|---------|
| Earning Assets (Managed) 1) | 10,886.5 | 8,507.5 | 2,379.0 |
| Credit Purchase | 4,532.6 | 3,547.7 | 984.9 |
| Cash Advances | 413.4 | 383.2 | 30.2 |
| Card Loan | 2,681.7 | 2,461.8 | 219.9 |
| (Re-aged Loan) | 70.9 | 61.6 | 9.4 |
| Installment Finance | 1,285.7 | 345.4 | 940.3 |
| Lease | _ | _ | 0.0 |
| Others | 1,973.1 | 1,769.5 | 203.7 |

¹⁾ Earning assets before deducting credit loss provisions and present value discounts

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Management's Discussion and Analysis

THANA CARD

IV. ASSET QUALITY

The asset size growth propped up the total credit by KRW 2,359.6 billion YoY to reach KRW 11,081.2 billion at the end of 2022. NPL ratio improved by 3 bps from 0.70% in 2021 to 0.67% in 2022. Precautionary and below ratio also improved by 16 bps from 3,35% in 2021 to 3,19% in 2022.

TABLE 6. ASSET QUALITY AND LOAN LOSS PROVISION

(Unit: KRW in billion)

| | | (01110- | KIKVV II I DIIIIOI I) |
|------------------------------------|----------|---------|-----------------------|
| | 2022 | 2021 | YoY |
| Total Credit | 11,081.2 | 8,721.6 | 2,359.6 |
| Normal | 10,727.9 | 8,429.7 | 2,298.2 |
| Precautionary | 279.5 | 230.9 | 48.6 |
| Substandard | 0.4 | 0.9 | -0.5 |
| Doubtful | 44.7 | 39.8 | 4.9 |
| Estimated Loss | 28.7 | 20.4 | 8.3 |
| Substandard & Below (NPL) | 73.7 | 61.0 | 12.7 |
| Substandard & Below (NPL) Ratio 1) | 0.67% | 0.70% | -0.03%p |
| Precautionary & Below | 353.3 | 291.9 | 61.3 |
| Precautionary & Below ratio | 3.19% | 3.35% | -0.16%p |
| Loan Loss Reserves | 288.9 | 239.0 | 49.9 |
| Normal | 123.9 | 129.0 | -5.1 |
| Precautionary | 143.1 | 63.5 | 79.7 |
| Substandard | 89.6 | 0.4 | 89.2 |
| Doubtful | 0.1 | 30.0 | -29.9 |
| Estimated Loss | 33,5 | 16.1 | 17.5 |
| Coverage Ratio | 0 | 0 | |
| Substandard & Below (NPL) Coverage | 391.72% | 391.72% | 0.00%p |
| Precautionary & Below | 81.77% | 81.86% | -0.09%p |
| | | | |

¹⁾ NPL Ratio inclusive of factoring

V. CAPITAL ADEQUACY

Adjusted equity capital ratio dropped 3,03%p from 22,13% in 2021 to 19,11% in 2022, but remained at a stable level. Leverage ratio edged up from 4,72 at the end of 2021 to 5,52 at the end of 2022 but remained steady, well below the regulatory guideline of 8.0.

TABLE 7. ADJUSTED EQUITY CAPITAL RATIO AND LEVERAGE RATIO

| | 2022 | 2021 | YoY |
|-----------------------------------|----------|---------|---------|
| Adjusted Equity Capital | 2,184.1 | 2,001.1 | 183.0 |
| Adjusted Total Asset | 11,431.7 | 9,040.7 | 2,391.0 |
| Adjusted Equity Capital Ratio (%) | 19.11% | 22.13% | -3.03%p |
| Total Equity Capital | 2,219.2 | 2,028.7 | 190.5 |
| Total Assets | 12,256.9 | 9,585.4 | 2,671.5 |
| Leverage Ratio (Multiples) | 5.52 | 4.72 | 0.80 |





I. OVERVIEW

The year 2022 was tough for domestic capital industry, with intensifying competition in the retail market and rising funding costs from interest rate hikes. Despite the challenging market environment, Hana Capital adhered to its digital transformation drive, which helped maximize its sales competency and accelerated customer inflow and asset growth via digital platform.

Also, the company issued ESG bonds and increased investments in K-New Deal and eco-friendly projects, realizing win-win deal-based sustainability management. Based on a diversified business portfolio through increased investments and corporate finance, and stable profit generation, the company achieved a record-high profit. In 2023, Hana Capital will continue to play its role as a leading capital firm through its business strategies, corporate culture innovation, social value creation, and risk management.

Table 1. SUMMARIZED FINANCIAL INFORMATION (CONSOLIDATED)

| | (Unit: KRW billi | | |
|--------------------------|------------------|---------|---------|
| | 2022 | 2021 | YoY |
| Profitability | | | |
| General Operating Income | 594.0 | 508.9 | 85.1 |
| Operating Income | 399.9 | 368.7 | 31.3 |
| Net Income | 298.3 | 272.0 | 26.4 |
| ROA | 1.99% | 2.22% | -0.23%p |
| ROE | 15.40% | 18.16% | -2.76%p |
| Cost to Income Ratio | 15.63% | 14.39% | 1.23%p |
| Financial Asset | | | |
| Lease | 4,344.9 | 3,568.1 | 776.8 |
| Installment | 1,222.1 | 1,324.3 | -102.2 |

II. SUMMARY OF BUSINESS PERFORMANCE

General operating income grew by KRW 104.0 billion, or 22.5%, YoY to record KRW 556.0 billion for 2022 from the increase in interest income and fee income from the net increase of assets. Net income was up KRW 22.1 billion, or 8.2%, YoY to reach KRW 293.3 billion, delivering record-high performance.

TABLE 2. COMPREHENSIVE INCOME STATEMENT (SEPARATED)

(Unit: KRW billion)

| | | · | |
|--|-------|-------|-------|
| | 2022 | 2021 | YoY |
| General Opearating Income | 566.0 | 462.0 | 104.0 |
| Net Interest Income | 385.1 | 349.7 | 35.4 |
| Net Fee & Commission Income | 123.6 | 62.7 | 60.9 |
| Gains on Disposition & Valuation | 29.0 | 22.0 | 7.0 |
| Other Operating Income | 28.3 | 27.5 | 0.8 |
| General & Administrative Expenses | 82.8 | 64.7 | 18.1 |
| Pre-Provisioning Operating Profit (PPOP) | 483.2 | 397.2 | 85.9 |
| Credit Loss Provision | 94.6 | 36.8 | 57.8 |
| Operating Income | 388.6 | 360.4 | 28.2 |
| Non-Operating Income | 2.7 | 3.1 | -0.4 |
| Net Income before Income Tax | 391.3 | 363.5 | 27.8 |
| Income Tax Expenses | 98.0 | 92.3 | 5.7 |
| Net Income | 293.3 | 271.2 | 22.1 |
| | | | |

SG&A expenses increased by KRW 18.1 billion YoY to KRW 82.8 billion. Salaries and employee benefits rose by KRW 9.1 billion YoY to KRW 38.8 billion. Administrative expenses also grew by KRW 4.1 billion to KRW 25.1 billion. Cost to Income Ratio increased by 0.62%p YoY to 14.63% in 2022.

TABLE 3. GENERAL AND ADMINISTRATIVE EXPENSES

| | 2022 | 2021 | YoY |
|-------------------------------------|--------|--------|--------|
| General and Administrative Expenses | 82.8 | 64.7 | 18.1 |
| Salaries and Employee Benefits | 38.8 | 29.7 | 9.1 |
| Severance and Retirement Benefits | 2.0 | 2.5 | -0.5 |
| Administrative Expenses | 25.1 | 21.0 | 4.1 |
| Depreciation and Amortization | 8.3 | 7.4 | 0.9 |
| Taxes and Dues | 8.6 | 4.0 | 4.5 |
| Cost to Income Ratio | 14.63% | 14.01% | 0.62%p |
| | | | |

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Management's Discussion and Analysis

HANA CAPITAL

III. FINANCIAL POSITIONS

Lease and installment finance assets amounted to KRW 5,566.9 billion, a KRW 674.6 billion YoY growth. Lease assets stood at KRW 4,344,9 billion, a net increase of KRW 776.8 billion YoY, and installment finance assets amounted to KRW 1,222.1 billion, a decrease of KRW 102.2 billion YoY. In particular, the percentage of auto finance grew 0.7%p YoY to account for 90.1% of the lease and installment finance assets.

TABLE 4. LEASE / INSTALLMENT

| / | 1 1 *** | I/DIA/ | 1 *11 | . \ |
|---|---------|----------|-------|-------|
| 1 | Unit: | K 12\/\/ | niii | 1001 |
| ١ | OI III. | 1/1//// | MIII | 1011/ |

| | 2022 | 2021 | YoY |
|---------------|---------|---------|--------|
| Lease | 4,344.9 | 3,568.1 | 776.8 |
| Auto | 3,986.6 | 3,252.7 | 734.0 |
| General | 358.2 | 315.4 | 42.8 |
| Installment | 1,222.1 | 1,324.3 | -102.2 |
| Durable Goods | 171.7 | 183.8 | -12.1 |
| Auto | 1,031.8 | 1,120.0 | -88.2 |
| General | 18.6 | 20.5 | -1.9 |
| Total | 5,566.9 | 4,892.4 | 674.6 |

| | 2022 | 2021 | 101 |
|---------------------------|---------|---------|----------|
| Ratio | 3.95% | 0.87% | 3.08%p |
| Substandard & Below (NPL) | | | |
| Amount | 97.4 | 58.7 | 38.7 |
| Ratio | 0.70% | 0.50% | 0.20%p |
| Loans Loss Reserve | 110.5 | 74.6 | 35.9 |
| Normal | 56.8 | 47.8 | 9.0 |
| Precautionary | 18.8 | 6.3 | 12.5 |
| Substandard | 6.3 | 3.7 | 2.6 |
| Doubtful | 28.1 | 16.0 | 12.1 |
| Estimated Loss | 0.4 | 0.7 | -0.4 |
| Precautionary & Below | | | |
| Loans Loss Reserve | 53.6 | 26.7 | 26.9 |
| Coverage Ratio | 20.11% | 72.60% | -52.48%p |
| Substandard & Below (NPL) | | | |
| Loans Loss Reserve | 34.8 | 20.5 | 14.4 |
| Coverage Ratio | 113.36% | 126.94% | -13.58%p |

2022

IV. ASSET QUALITY

In 2022, total credit stood at KRW 13,896.9 billion, up KRW 2,069.0 billion from the previous year. NPLs grew by KRW 38.7 billion YoY to reach KRW 97.4 billion, and NPL ratio was up 0.2%p YoY to 0.7%. Loan loss reserve also grew by KRW 35.9 billion YoY to reach KRW 110.5 billion, and NPL coverage ratio was 113.36%, 13.58%p lower than the previous year.

TABLE 5. ASSET QUALITY AND LOAN LOSS PROVISION

(Unit: KRW billion)

| | 2022 | 2021 | YoY |
|-----------------------|----------|----------|---------|
| Total Credit | 13,896.9 | 11,827.9 | 2,069.0 |
| Normal | 13,347.8 | 11,725.2 | 1,622.5 |
| Precautionary | 451.7 | 44.0 | 407.7 |
| Substandard | 49.3 | 27.7 | 21.7 |
| Doubtful | 47.6 | 30.2 | 17.3 |
| Estimated Loss | 0.5 | 0.8 | -0.3 |
| Precautionary & Below | | | |
| Amount | 549.1 | 102.7 | 446.4 |

V. CAPITAL ADEQUACY

Adjusted equity capital ratio was 12.97%, well above the regulatory guidelines of 7%.

TABLE 6. ADJUSTED EQUITY CAPITAL RATIO

| | | ` | |
|-------------------------------|----------|----------|---------|
| | 2022 | 2021 | YoY |
| Adjusted Equity Capital | 2,097.0 | 1,842.1 | 254.8 |
| Tier 1 Capital | 1,752.8 | 1,524.3 | 228.5 |
| Shareholders' Equity | 1,752.8 | 1,524.3 | 228.5 |
| Tier 2 Capital | 364.7 | 332.0 | 32.7 |
| Subordinated Bonds | 249.5 | 249.5 | 0.0 |
| Loan Loss Reserve | 115.2 | 82.5 | 32.7 |
| (-) Deduction | 20.5 | 14.2 | 6.3 |
| Adjusted Total Assets | 16,167.6 | 13,256.1 | 2,911.5 |
| Total Assets on Balance Sheet | 16,497.9 | 13,666.6 | 2,831.3 |
| (-) Deduction | 747.1 | 410.5 | 336.7 |
| Adjusted Equity Capital Ratio | 12.97% | 13.90% | -0.93%p |
| | | | |

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Management's Discussion and Analysis



I. OVERVIEW

Korean life insurance sector is quickly pivoting away from savings-type sales to focus more on selling protection and variable insurance products in response to the social changes arising from low birth rate, fast-aging population, and sluggish economic growth, and to the regulatory changes, such as dwindling tax-exemption benefits and revised accounting rules.

New capital adequacy requirements have become the most pressing issue for domestic life insurers with the IFRS17 and, accordingly, the K-ICS slated for 2023. Consequently, they are exploring diverse options for raising capital.

Furthermore, they are working hard to secure their market share of the recently-rising digital channels as these are eclipsing the traditional face-to-face sales channels.

In 2022, Hana Life spurred up its digital transformation initiative under the slogan "Easy Insurance, Customer Insurance, Digital Hana!" while building its competencies through across–the–board digitalization to enhance customer convenience and through fostering digital talents.

The company threw efforts into cost reduction and sales increase of protection and variable insurance products, replacing savings-type, enhanced return on investments through investments concentrated on quality assets through collaboration with the Group affiliates, and enhanced business fundamentals by notching up its risk management practices.

Hana Life will continue to strengthen its operational network by creating synergies with the Group affiliates, expanding the bancassurance channels through new alliances, and expanding digital platform sales into developing new sources of revenue. At the same time, the company works hard to increase the insurance product line-up catering to the diverse needs of customers to become a more customer-oriented life insurance company.

II. SUMMARY OF BUSINESS PERFORMANCE

Hana Life's monthly coverage premium (MCP)–a key performance indicator of the insurance business–grew year on year to reach KRW 18.9 billion at the end of 2022 due to the company's coverage insurance–driven sales expansion strategy. New protection insurance sales grew by 45% YoY to KRW 6.2 billion at the end of 2022, showing robust growth. The investment income also demonstrated a substantial 16% YoY growth to reach KRW 170 billion for 2022.

TABLE 1. MAIN PERFORMANCE INDICATORS (SEPARATED)

(Unit: KRW in billion)

| | 2022 | 2021 | YoY |
|---------------------------------|--------|--------|---------|
| MCP(Monthly Converged Premiums) | 18.9 | 13.8 | 5.1 |
| Annuity | 2.6 | 4.4 | -1.8 |
| Saving | 6.2 | 0.0 | 6.2 |
| Protection | 6.2 | 4.3 | 1.9 |
| Variable | 4.0 | 5.1 | -1.2 |
| Premium Income | 795.3 | 514.3 | 281.0 |
| Investment Income | 170.0 | 146.3 | 23.7 |
| Investment Income Ratio | 3.06% | 2.99% | 0.08%p |
| Net Income | 10.1 | 12.7 | -2.6 |
| ROA | 0.18% | 0.23% | -0.06%p |
| ROE | 3.50% | 3.60% | -0.09%p |
| Cost to Income Ratio | 63.96% | 68.05% | -4.09%p |
| | | | |

Hana Life's net income for 2022 stood at KRW 10.1 billion after the initial expenses on newly-launched channels. Net investment business income rose more than 4% YoY to KRW 121.9 billion.

TABLE 2. COMPREHENSIVE INCOME STATEMENT (SEPARATED)

| | | \ | - / |
|-------------------------------|-------|-------|-------|
| | 2022 | 2021 | YoY |
| Net Insurance Business Income | 106.7 | 18.6 | 88.1 |
| Insurance Income | 807.1 | 524.9 | 282.1 |
| Premium Income | 795.3 | 514.3 | 281.0 |
| Reinsurance Income | 11.8 | 10.6 | 1.2 |
| Insurance Expense | 700.4 | 506.4 | 194.0 |
| Benefit & Payments | 607.3 | 420.3 | 187.0 |

THANA LIFE

| | 2022 | 2021 | YoY |
|--|-------|-------|-------|
| Reinsurance Expense | 12.3 | 11.8 | 0.5 |
| General & Administrative Expense | 72.6 | 64.5 | 8.1 |
| Decrease(Increase) of Deferred Acquisition Cost | 2.6 | 2.6 | 0.0 |
| Discount | 5.6 | 7.2 | -1.6 |
| Net Investment Business Income | 121.9 | 117.1 | 4.8 |
| Investment Income | 170.0 | 146.3 | 23.7 |
| Investment Expense | 48.1 | 29.2 | 18.9 |
| Increase of Policy Reserve | 246.6 | 187.7 | 58.9 |
| Operating Income | -18.0 | -52.0 | 34.0 |
| Non-Operating Income | 35.5 | 69.1 | -33.6 |
| Net Income before Income Tax | 17.5 | 17.0 | 0.4 |
| Income Tax Expense | 7.3 | 4.3 | 3.0 |
| Net Income | 10,1 | 12.7 | -2.6 |
| | | | |

Hana Life's general and administrative expenses increased by KRW 5.4 billion from 2021 to KRW 46.5 billion in 2022. The main causes of the increase were the launching of new channels, which required to hire more staffs and thereby pushed up the labor costs, as well as the company's response to regulatory changes resulting in higher administrative and expenses.

TABLE 3. GENERAL AND ADMINISTRATIVE EXPENSES (SEPARATED)

(Unit: KRW in billion)

| | 2022 | 2021 | YoY |
|-----------------------------------|--------|--------|---------|
| General & Administrative Expenses | 46.5 | 41.0 | 5.4 |
| Salaries and Employment Benefits | 15.0 | 15.1 | -0.1 |
| Severance and Retirement Benefits | 2.0 | 1.5 | 0.5 |
| Administrative Expenses | 20.0 | 17.2 | 2.8 |
| Depreciation and Amortization | 6.4 | 6.2 | 0.2 |
| Taxes and Dues | 3.2 | 1.0 | 2.1 |
| Cost to Income Ratio | 63.96% | 68.05% | -4.09%p |
| | | | |

III. CAPITAL ADEQUACY

Hana Life's risk-based capital (RBC) ratio declined 14.1%p from the previous year to 186.3% at the end of 2022. Solvency margin rose by KRW 9.5 billion from a year ago to reach KRW 412.9 billion at the end of 2022. The growth can be attributed to: the regulatory change, which added KRW 121.5 billion, or 40% of the liability adequacy test (LAT) surplus amount, to risk-based capital; a KRW 80.5 billion decrease in accumulated other comprehensive income; and a KRW 10.0 billion drop in subordinated bonds recognized as Tier 2 capital. Standard amount of solvency margin stood at KRW 221.6 billion for the reporting period, up KRW 20.3 billion from 2021, due to a KRW 17.5 billion rise in credit risk amount on the asset growth, led by fixed-income and beneficiary certificates and a KRW 3.4 billion increase in operational risk amount due to the rise in premium income.

TABLE 4. SOLVENCY MARGIN RATIO

| | | , | · · · · · · · · · · · · · · · · · · · |
|------------------------------------|--------|--------|---------------------------------------|
| | 2022 | 2021 | YoY |
| Solvency Margin | 412.9 | 403.4 | 9.5 |
| Shareholders' Equity | 462.3 | 417.2 | 45.1 |
| Loan Loss Reserve | 4.7 | 4.9 | -0.2 |
| Subordinated Bonds | 0.0 | 10.0 | -10.0 |
| Net Premium Reserve in Excess | 34.4 | 38.1 | -3.7 |
| (-)Deduction | 88.5 | 66.7 | 21.8 |
| Standard Amount of Solvency Margin | 221.6 | 201.3 | 20.3 |
| Solvency Margin Ratio | 186.3% | 200.4% | -14.1%p |
| | | | |

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Management's Discussion and Analysis



I. OVERVIEW

Hana Savings Bank contributes to inclusive finance and microfinance in Korea through its products, such as Sunshine Loan (government-supported microfinance) and midinterest-rate loans. The bank secures asset quality and profitability by exploring niche markets in pursuit of business expansion and strengthening cross-selling with affiliates. Recently, it has been actively capitalizing on non-face-to-face channels to bolster its digital banking system while enhancing customer-oriented competitiveness to achieve sustainable growth in advancing microfinance in Korea.

Leveraging its vast capital pool and good credit standing as an affiliate of the financial group, the company has made continuous investments in digital banking, facilitating online cross-selling with affiliates and partners. The bank has also focused on increasing its retail assets, including mid-interest-rate credit loans and Sunshine Loans. As a result, it achieved stable asset growth and higher profitability from its diversified asset portfolios.

II. SUMMARY OF BUSINESS PERFORMANCE

Hana Savings Bank was established in 2012 through the acquisition of Jeil Savings Bank II and Ace Mutual Savings Bank and acquired another savings bank-Korea Mutual Savings Bank-in September of the same year. In the following year, the bank turned around to profits of KRW 5.8 billion, a remarkable accomplishment given that it was only in the second year of operation.

Since then, the bank has continued growth by leaps and bounds, and the upshot was KRW 26.5 billion in net income in 2021. The net income for 2022 was KRW 23.3 billion.

Despite the unstable market conditions due to the pandemic in 2022, strong corporate and retail loan growth, mainly through Sunshine Loans via a digital platform and midcredit loans, significantly contributed to the substantial improvement in net interest income. In anticipation of possible deterioration in the market, the company set aside a sizeable loan loss provision last year without compromising its stable revenue structure.

In 2022, SG&A expenses increased by about KRW 5.6 billion YoY, mainly due to a KRW 1.4 billion increase in depreciation and amortization owing to asset acquisition from developing digital platforms, KRW 1.3 billion increase in the associating service expenses, and a KRW 0.7 billion addition in IT expenses, as well as a KRW 0.6 billion increase in advertising expenses.

On the other hand, an increase in the general operating income helped improve the C/I ratio, which dropped by 3.95%p YoY, resulting in a more efficient revenue structure.

TABLE 1, COMPREHENSIVE INCOME STATEMENT (SEPARATED)

(Unit: KRW in billion)

| | 2022 | 2021 | YoY |
|--|-------|------|------|
| General Operating Income | 112.1 | 86.3 | 25.8 |
| Net Interest Income | 113,1 | 86.2 | 26.9 |
| Net Fee and Commissions Income | 5.8 | 7.2 | -1.4 |
| Gains on Disposition & Valuation | 4.0 | 0.5 | 3.4 |
| Other Operating Income (Expenses) | -10.8 | -7.7 | -3.1 |
| General & Administrative Expenses | 38.9 | 33.3 | 5.6 |
| Pre-Provisioning Operating Income (PPOP) | 73.2 | 52.9 | 20.3 |
| Credit Loss Provision | 41.5 | 16.4 | 25.1 |
| Operating Income | 31.7 | 36.5 | -4.8 |
| Non-Operating Income | -0.1 | 0.0 | -0.1 |
| Net Income before Income Tax | 31,6 | 36.5 | -4.9 |
| Income Tax Expense | 8.3 | 10.0 | -1.6 |
| Net Income | 23.3 | 26.5 | -3.3 |

TABLE 2. GENERAL AND ADMINISTRATIVE EXPENSE

(Unit: KRW in billion)

| | (-111-111-111-111-111-111-111-11-11-11-1 | | |
|-----------------------------------|--|--------|---------|
| | 2022 | 2021 | YoY |
| General & Administrative Expenses | 38.9 | 33.3 | 5.6 |
| Salaries and Employment Benefits | 13.2 | 12.2 | 1.0 |
| Severance and Retirement Benefits | 0.9 | 0.7 | 0.1 |
| Administrative Expenses | 14.5 | 11.8 | 2.7 |
| Depreciation and Amortization | 8.1 | 6.7 | 1.4 |
| Taxes and Dues | 2.2 | 1.9 | 0.3 |
| Cost to Income Ratio | 34.69% | 38.64% | -3.95%p |
| | | | |

III. SUMMARY OF FINANCIAL CONDITION

Hana Savings Bank is a subsidiary of Hana Financial Group that holds a 100% stake. Currently, the bank operates a Synergy Innovation Office that orchestrates the cross-selling among its two branches, the Corporate Finance Division and the Retail Finance Division at the headquarters, and other Group affiliates. As of the end of 2022, the bank holds a total asset of KRW 2,821.8 billion and liabilities of KRW 2,444.8 billion, with its shareholders' equity standing at KRW 377.0 billion.

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Management's Discussion and Analysis

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SAVINGS BANK

In 2022, Hana Savings Bank's total assets increased by KRW 344.6 billion compared to 2021, mainly driven by a KRW 294.3 billion growth in credit assets due to the sales growth powered by channel diversification.

TABLE 3. CONDENSED BALANCE SHEETS (SEPARATED)

(Unit: KRW in billion)

| | (UTILL TRAV TILIDIIII) | | |
|--|------------------------|---------|-------|
| | 2022 | 2021 | YoY |
| Interest Earning Assets | 2,661.3 | 2,356.9 | 304.4 |
| Due from Banks | 212.4 | 187.3 | 25.1 |
| Fixed Income Securities | 0.0 | 0.0 | 0.0 |
| Loans | 2,497.3 | 2,203.0 | 294.3 |
| Loan Loss Allowance | -48.4 | -33.4 | -15.0 |
| Other Revenue Earning Assets | 58.2 | 22.7 | 35.5 |
| Stocks and Others | 40.9 | 15.1 | 25.8 |
| Lease | 0.0 | 0.0 | 0.0 |
| Trust Account Assets | 0.0 | 0.0 | 0.0 |
| Domestic Exchange Settlement | 17.3 | 7.6 | 9.7 |
| Non-Revenue Earning Assets | 102.4 | 97.6 | 4.7 |
| Total Assets | 2,821.8 | 2,477.2 | 344.6 |
| Interest Bearing Liabilities | 2,378.2 | 2,060.2 | 318.0 |
| Deposits | 2,369.2 | 2,060.2 | 309.0 |
| Borrowings | | 0.0 | 0.0 |
| Debentures | | 0.0 | 0.0 |
| Policy Reserve | | 0.0 | 0.0 |
| Borrowings from Trust Accounts | | 0.0 | 0.0 |
| Trust Account Liabilities | _ | - | 0.0 |
| Domestic Exchange Settlement | 9.0 | 0.0 | 9.0 |
| Non-Interest Bearing Liabilities | 66.6 | 56.4 | 10.2 |
| Total Liabilities | 2,444.8 | 2,116.6 | 328.2 |
| Shareholders' Equity | 377.0 | 360.6 | 16.4 |
| Total Liabilities & Shareholders' Equity | 2,821.8 | 2,477.2 | 344.6 |

IV. ASSET QUALITY

The slight increase in the NPL can be explained by the market recession and the resultant deterioration in the asset quality indicators for retail credit. Currently, the bank is diversifying its asset portfolio and increasing quality assets to substantialize asset holdings in its growth strategy.

TABLE 4. ASSET QUALITY AND LOAN LOSS PROVISION

| | (Unit: KRW in billio | | KRW in billion |
|---------------------------|----------------------|--------|----------------|
| | 2022 | 2021 | YoY |
| Total Credit | 2,497.0 | 2202.6 | 294.3 |
| Normal | 1,929.2 | 1873.7 | 55.5 |
| Precautionary | 488.0 | 291.7 | 196.2 |
| Substandard | 36.7 | 12.6 | 24.0 |
| Doubtful | 30.4 | 12.0 | 18.5 |
| Estimated Loss | 12,7 | 12.6 | 0.1 |
| Precautionary & Below | | | 0.0 |
| Amount | 567.8 | 329.0 | 238.8 |
| Ratio | 22.7% | 14.9% | 7.8%p |
| Substandard & Below (NPL) | | | 0.0 |
| Amount | 79.8 | 37.2 | 42.6 |
| Ratio | 3.20% | 1.69% | 1.51%p |
| Loan Loss Reserve | 75.9 | 51.8 | 24.1 |
| Normal | 28.3 | 23.9 | 4.4 |
| Precautionary | 11.7 | 5.7 | 6.0 |
| Substandard | 7.0 | 2.6 | 4.3 |
| Doubtful | 19.0 | 8.0 | 11.0 |
| Estimated Loss | 9.9 | 11.6 | -1.7 |
| Precautionary & Below | | | 0.0 |
| Loan Loss Reserve | 47.6 | 27.9 | 19.7 |
| Coverage Ratio | 13.4% | 15.8% | -2.4%p |
| Substandard & Below (NPL) | | | 0.0 |
| Loan Loss Reserve | 35.8 | 22.2 | 13.7 |
| Coverage Ratio | 95.1% | 139.1% | -44.0%p |

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SAVINGS BANK

V. CAPITAL ADEQUACY

BIS ratio declined 0.88%p YoY to 14.90% due to the KRW 300 billion increase in loan assets. This is considered a high level of capital adequacy, significantly above the 8% regulated by the Savings Bank Act and exceeds the 11% guided by supervisory authorities in view of the recent market conditions.

Based on the continuous asset growth, Hana Savings Bank will continue to reflect the capital surplus from the net income growth to its core capital so as to maintain a stable capital adequacy.

TABLE 5. BIS CAPITAL AND RATIO

| | 2022 | 2021 | YoY |
|----------------------------|---------|---------|---------|
| Tier 1 Capital | 305.5 | 297.9 | 7.6 |
| Common Equity Capital | 305.5 | 297.9 | 7.6 |
| Capital Stock | 115.5 | 115.5 | 0.0 |
| Capital Surplus | 167.6 | 167.6 | -0.0 |
| Retained Earnings | 56.3 | 53.5 | 2.7 |
| Others | -33.9 | -38.8 | 4.9 |
| Hybrid Bonds | 0.0 | 0.0 | 0.0 |
| Tier 2 Capital | 30.6 | 26.3 | 4.3 |
| Loan Loss Reserve | 29.0 | 26.1 | 2.9 |
| Subordinated Bonds | 0.0 | 0.0 | 0.0 |
| Others | 1.5 | 0.2 | 1.4 |
| Total BIS Capital | 336.1 | 324.2 | 11.9 |
| Risk-Weighted Assets | 2,254.9 | 2,054.0 | 200.9 |
| BIS Capital Adequacy Ratio | 14.90% | 15.78% | -0.88%p |
| Tier 1 Ratio | 13.55% | 14.50% | -0.95%p |
| Tier 2 Ratio | 1.36% | 1.28% | 0.08%p |

Independent Auditor's Report

To the Shareholders and the Board of Directors of Hana Financial Group Inc.

Deloitte

Deloitte Anjin LLC

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AUDIT OPINION

We have audited the consolidated financial statements of Hana Financial Group Inc. and its subsidiaries (the "Group"), which comprise the consolidated statement of financial position as of December 31, 2022, and the consolidated statement of comprehensive income, consolidated statement of changes in shareholders' equity and separate statement of cash flows, for the years then ended, and notes to the consolidated financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying separate financial statements present fairly, in all material respects, the financial position of the Group as of December 31, 2022, and its financial performance and its cash flows for the years then ended in accordance with Korean International Financial Reporting Standards ("K–IFRS").

BASIS FOR AUDIT OPINION

We conducted our audits in accordance with the Korean Standards on Auditing ("KSAs"). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Consolidated Financial Statements section of our report. We are independent of the Group in accordance with the ethical requirements that are relevant to our audit of the consolidated financial statements in the Republic of Korea, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

KEY AUDIT MATTER

The key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the consolidated financial statements of the current period. These matters were addressed in the context of our audit of the consolidated financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

1. Assessment of the allowance for credit losses for loans

As discussed in Note 3, 16 to the consolidated financial statements, the Group recognized an allowance for credit losses using the Expected Credit Loss (ECL) impairment model for loans at amortized cost amounting to KRW 2,419,868 million as of December 31, 2022. A lifetime ECL is recognized for those loans that have experienced a Significant Increase in Credit Risk (SICR) since initial recognition or are credit impaired, otherwise a 12-month ECL is recognized. The Group measures ECL allowances on an individual basis for individually significant loans which are credit impaired and for those which have experienced a SICR and demonstrate certain other high risk indicators (for example, debt restructuring). The individual assessment involves judgement by the Group in estimating the future cash flows, including the value of related collateral. The allowance for credit losses for other loans are measured on a collective basis. For these loan, the Group measures ECL based on its estimates of the Probability of Default (PD), the Loss Given Default (LGD) and the Exposure at Default (EAD) as well as the impact of Forward-Looking information (FLI). For the loans measured on a collective basis, one of the relevant inputs for determining PD is the internal credit risk rating of the borrower. The internal credit risk rating of the borrower is defined by the Group using quantitative and qualitative factors.

We identified the assessment of the allowance for credit losses for loans as a key audit matter. A high degree of audit effort, including specialized skills and knowledge, and subjective and complex auditor judgment was involved to evaluate the Group's estimates of future cash flows, including from the sale of collateral, for the loans with ECL measured on an individual basis. In addition, a high degree of audit effort, including specialized skills and knowledge, and subjective and complex auditor judgment was involved to evaluate the Group's estimates and judgments with respect to the measurement of ECL on a collective basis. This included the analysis of the qualitative factors considered in determining the internal credit risk ratings of loans, the calculation of 12 month and lifetime PD, the calculation of LGD and the evaluation of FLI incorporated in the measurement of collective ECL.

The following are the primary procedures we performed to address this key audit matter. We evaluated the design and tested the operating effectiveness of certain internal controls related to: (i) the estimation of future cash flows for individually assessed loans, including controls over the work of external valuation profession als engaged by the Group to assess the future cash flows together with the value of collateral; (ii) the validation of the models used to determine the inputs to the collective ECL calculation and the impact of FLI; (iii) the assessment of quantitative and qualitative factors in the process of determining the internal credit risk rating of the loans, including the review of internal credit risk ratings performed by a n independent department with access to the same qualitative information; and (iv) the completeness and accuracy of data used in the determination of the credit risk ratings. We assessed the estimates of future cash flows expected

Independent Auditor's Report

To the Shareholders and the Board of Directors of Hana Financial Group Inc

from collateral on a sample of individually assessed loans by: (i) comparing assumptions made with information obtained from internal and external sources; and (ii) assessing the reliability of information used in the estimates, including the qualification of external valuation professionals engaged by the Group. We involved credit risk and information technology professionals with specialized skills and knowledge who assisted in: (i) evaluating the methodology and key judgments used in determining the PD and LGD parameters; (ii) evaluating how FLI was incorporated in the collective ECL model; and (iii) checking the accuracy of the calculation of PDs, and a sample of LGDs. We evaluated whether, for a sample of loans with ECL measured on a collective basis, Group policy was applied in the internal credit risk rating process.

2. Assessment of the measurement of fair value of certain level 3 derivatives and level 3 derivative linked securities

As described in Note 5 to the consolidated financial statements, the Group discloses the fair value of financial instruments classified at level 3 if the inputs that have a significant impact on the fair value assessment results are based on information that is not observable in the market.

In particular, Hana Securities Co., Ltd. evaluates some derivatives and derivatives-linked securities classified as level 3 through its own evaluation system. As of the end of 2022, the derivative assets was accounted for KRW 17,627 million and the derivative liabilities was accounted for KRW 258,8853 million. In addition, the derivative-linked securities was accounted at KRW 96,626 million for fair value through profit or loss financial assets and at KRW 3,346,917 million for fair value through profit or loss designated financial liabilities. To measure these financial instruments, the Group uses valuation methods such as discounted cash flow models and option models, which require various inputs and assumptions depending on the characteristics of the financial instruments.

The principal considerations for our determination that performing procedures relating to valuation of level 3 derivatives and level 3 derivative-linked securities is a key audit matter are: (i) there was significant judgment by management in deter mining the internal valuation models, which in turn led to a high degree of auditor subjectivity in performing procedures related to the valuation of derivatives using internal valuation models; (ii) there was significant judgment and effort in evaluating audit evidence related to these internal valuation models and unobservable inputs used to determine the valuation of level 3 derivatives and level 3 derivative-linked securities; and (iii) the audit effort involved the use of professionals with specialized skill and knowledge.

The following are the primary procedures we performed to address this key audit matter. We evaluated the design and tested the operating effectiveness of certain internal controls related to the measurement of fair value of the level 3 derivatives and derivative-linked securities that are valued using internally developed

valuation models. These procedures included controls over the review on development and validation on change of the internal valuation models and unobservable inputs used in valuation of level 3 derivatives. Also, we used professionals with specialized skill, competence and objectivity to evaluate valuation models and unobservable inputs for specific contracts, and to confirm whether the fair value calculated using independently developed valuation models and unobservable inputs is significantly different from the management's fair value.

OTHER MATTERS

EY Korea has audited the consolidated statement of financial position of the Company as of December 31, 2021, and the related consolidated statement of comprehensive income, consolidated statement of changes in equity, and consolidated statement of cash flows for the year then ended in accordance with KSAs (not presented in this report), and the report dated March 10, 2022, expressed an unqualified opinion. By the way, the consolidated financial statements that EY Korea expressed an unqualified opinion are the consolidated financial statements before the adjustments described in Note 3–35–5 to the consolidated financial statements were reflected, and the comparative consolidated financial statements as of December 31, 2021, are consolidated financial statements were reflected such adjustments.

Responsibilities of Management and Those Charged with Governance for the Consolidated Financial Statements

Management is responsible for the preparation of the accompanying consolidated financial statements in accordance with K-IFRS, and for such internal control as they determine is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management of the Group is responsible for assessing the Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Group or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Group's financial reporting process.

Auditor's Responsibilities for the Audit of the Consolidated Financial Statements

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an

Independent Auditor's Report

To the Shareholders and the Board of Directors of Hana Financial Group Inc.

audit conducted in accordance with KSAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated financial statements.

As part of an audit in accordance with KSAs, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our audit opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of the management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the consolidated financial statements or, if such dis closures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Group to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. We are

responsible for the direction, supervision and performance of the group audit. We are solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the consolidated financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

The engagement partner on the audit resulting in this independent auditor's report is Ho Young, Heo.

Delorte Idnjin LC March 10, 2023

This report is effective as of March 10, 2023, the auditor's report date. Certain subsequent events or circumstances may have occurred between the auditor's report date and the time the auditor's report is read. Such events or circumstances could significantly affect the consolidated financial statements and may result in modifications to the auditor's report.

Consolidated Statements of Financial Position

As of December 31, 2022 and 2021 Hana Financial Group Inc. and its subsidiaries

| Accounts | Notes | December 31, 2022 | December 31, 2021 |
|---|---------------------------|-------------------|-------------------|
| Assets | | | |
| I. Cash and due from banks | 5, 6, 7, 9, 11, 15, 57 | ₩ 45,756,109 | ₩ 31,406,596 |
| II. Financial assets measured at fair value through profit or loss("FVTPL") | 5, 6, 7, 9, 12,15, 17 | 51,158,805 | 38,718,285 |
| III. Financial assets measured at fair value through other comprehensive income ("FVOCI") | 5, 6, 7, 9, 13, 15, 17 | 37,370,178 | 39,473,529 |
| IV. Securities measured at amortized cost | 5, 6, 7, 9, 14, 15, 17 | 38,928,911 | 23,769,017 |
| V. Loans measured at amortized cost | 5, 6, 7, 9, 15, 16 | 361,484,896 | 337,349,273 |
| VI. Derivative assets used for hedging | 5, 6, 7, 9, 17 | 32,312 | 77,507 |
| VII. Investments in associates and joint ventures | 18 | 3,917,787 | 3,282,042 |
| VIII. Property and equipment | 15, 19, 21 | 5,243,039 | 3,539,669 |
| IX. Investment properties | 20 | 1,250,085 | 1,055,719 |
| X. Intangible assets | 22 | 870,443 | 748,337 |
| XI. Net defined benefit assets | 30 | 134,965 | _ |
| XII. Deferred tax assets | 53 | 428,812 | 302,030 |
| XIII. Current income tax assets | | 41,881 | 27,515 |
| XIV. Non-current assets held for sale | 23 | 72,950 | 412,594 |
| XV. Other assets | 5, 6, 7, 9, 24 | 22,182,026 | 22,283,157 |
| Total assets | | 568,873,199 | 502,445,270 |
| Liabilities | | | |
| I. Financial liabilities measured at FVTPL | 5, 6, 7, 9, 17, 25, 26 | 28,020,558 | 15,876,923 |
| II. Deposits | 5, 6, 7, 9, 27 | 362,575,964 | 325,149,095 |
| III. Borrowings | 5, 6, 7, 9, 28 | 37,087,312 | 30,261,598 |
| IV. Debentures | 5, 6, 7, 9, 29 | 56,673,832 | 54,476,161 |
| V. Derivative liabilities used for hedging | 5, 6, 7, 9, 17 | 546,408 | 118,599 |
| VI. Net defined benefit liabilities | 30 | 10,610 | 198,020 |
| VII. Provisions | 31 | 636,761 | 587,422 |
| VIII. Deferred tax liabilities | 53 | 2,259 | 203,288 |
| IX. Current income tax liabilities | | 728,389 | 782,822 |

| Accounts | Notes | December 31, 202 | 2 December 31, 2021 |
|---|----------------|------------------|---------------------|
| X. Other liabilities | 5, 6, 7, 9, 32 | 45,172,21 | 7 39,292,002 |
| Total liabilities | | ₩ 531,454,31 | ₩ 466,945,930 |
| Equity | | | |
| I. Equity attributable to equity holder of the parent | | ₩ 36,426,45 | 34,218,635 |
| 1. Issued capital | 33 | 1,501,21 | 1,501,210 |
| 2. Hybrid equity securities | 33 | 3,294,68 | 2,626,459 |
| 3. Capital surplus | 33 | 10,581,29 | 1 10,576,587 |
| 4. Capital adjustment | 34 | (165,041 | (315,606) |
| 5. Accumulated other comprehensive loss | 35 | (1,980,988 | (994,227) |
| 6. Retained earnings | 36 | 23,195,29 | 3 20,824,212 |
| II. Non-controlling shareholders' equity | 1 | 992,43 | 1,280,705 |
| Total equity | | 37,418,88 | 35,499,340 |
| Total liabilities and equity | | ₩ 568,873,19 | 9 ₩ 502,445,270 |

[&]quot;The accompanying notes are an integral part of the consolidated financial statements."



Consolidated Statements of Profit or Loss and Other Comprehensive Income

For the years ended December 31, 2022 and 2021 Hana Financial Group Inc. and its subsidiaries

| Accounts | | Notes | 2 | 022 | 2021 | | |
|------------|--|------------|-----------|-------------|-------------|-------------|--|
| Ī. | Net interest income | 38, 39 | ₩ | 8,919,763 | ₩ | 7,437,205 | |
| | 1. Interest income | | 15,876,58 | 80 | 10,867,491 | | |
| | 2. Interest expense | | (6,956,81 | 7) | (3,430,286) | - | |
| II. | Net fees and comission income | 38, 40 | | 1,754,919 | | 1,741,717 | |
| | 1. Fees and comission income | | 2,735,80 | 00 | 2,653,186 | | |
| | 2. Fees and comission expense | | (980,88 | 1) | (911,469) | | |
| III. | Net gain on financial assets measured at FVTPL | 38, 41, 42 | | 273,599 | | 789,984 | |
| IV. | Net gain on financial assets measured at FVOCI | 38, 43 | | 17,146 | | 104,548 | |
| V. | Gain on disposal of financial assets measured at amortized cost | 38, 44 | | 61,066 | | 76,830 | |
| VI. | Loss on derivative assets used for hedging | 38, 45 | | (67,719) | | (51,735) | |
| VII. | Gain on foreign currencies transactions | 38 | | 516,085 | | 38,322 | |
| VIII. | Total operating income | | | 11,474,859 | | 10,136,871 | |
| IX. | Impairment loss on financial assets | 38, 46 | | (1,186,798) | | (533,218) | |
| Χ. | Net operating income | | | 10,288,061 | | 9,603,653 | |
| XI. | General and administrative expenses | 38, 47 | | (4,432,949) | | (4,050,460) | |
| XII. | Other operating income | 38, 48, 50 | | 2,101,877 | | 1,587,197 | |
| XIII. | Other operating expenses | 38, 49, 50 | | (3,266,677) | | (2,509,294) | |
| XIV. | Operating income | | | 4,690,312 | | 4,631,096 | |
| XV. | Non-operating income | | | 253,754 | | 273,829 | |
| | 1. Net gain on valuation of investments in associates and joint ventures | 18 | 233,16 | 56 | 130,980 | | |
| | 2. Other non-operating income | 51 | 261,78 | 34 | 558,348 | | |
| | 3. Other non-operating expenses | 52 | (241,19 | 5) | (415,499) | | |
| XVI. | Net income before income tax expense | | | 4,944,066 | | 4,904,925 | |
| XVII. | Income tax expenses | 53 | | (1,322,872) | | (1,323,343) | |
| XVIII. | Net income for the year | | | 3,621,194 | | 3,581,582 | |
| XIX. | Other comprehensive income (loss) | | | (997,923) | | 62,539 | |
| | Items that may be reclassified subsequently to profit or loss: | | (936,51) | 5) | 27,642 | | |
| | Loss on valuation of debt securities measured at FVOCI | | ₩ (900,17 | 3) | ₩ (405,131) | | |

| | | | 1 | | | | |
|-------|---|----|-----------|-----------|-----------|-----------|--|
| | Accounts | | 2022 | 2 | 2021 | | |
| | Exchange differences on translation of foreign operations, net | | ₩ 5,992 | | ₩ 292,027 | | |
| | Changes in capital from valuation of equity method for investments in associates | | (1,366) | | 181,108 | | |
| | Loss on valuation of net investment in hedges | | (20,529) | | (40,788) | | |
| | Gain (loss) on valuation of cash flow hedges | | (3,864) | | 2,234 | | |
| | Other comprehensive loss on separate accounts | | (16,576) | | (1,808) | | |
| | 2. Items that will not be reclassified subsequently to profit or loss: | | (61,407) | | 34,897 | | |
| | Gain (loss) on valuation of equity securities measured at FVOCI | | (56,142) | | 18,208 | | |
| | Effect of changes in the credit risk of financial liabilities designated at FVTPL | | (7,675) | | (10,356) | | |
| | Loss on valuation of the fair value hedging instruments | | (11,861) | | (14,138) | | |
| | Changes in capital from valuation of equity method for investments in associates | | (14,676) | | 1,534 | | |
| | Remeasurements of the defined benefit plan | | 28,947 | | 39,649 | | |
| XX. | Total comprehensive income for the year | | | 2,623,271 | | 3,644,121 | |
| XXI. | Net income for the year attributable to: | | | 3,621,194 | | 3,581,582 | |
| | Equity of owner of the parent | | 3,552,391 | | 3,526,068 | | |
| | Non-controlling interests | 1 | 68,803 | | 55,514 | | |
| XXII. | Total comprehensive income for the year attributable to: | | | 2,623,271 | | 3,644,121 | |
| | Equity of owner of the parent | | 2,565,362 | | 3,570,890 | | |
| | Non-controlling interests | 1 | 57,909 | | 73,231 | | |
| XXII. | Earnings per share | 55 | | | | | |
| | Basic earnings per share (Korean won) | | | 11,803 | | 11,819 | |
| | Diluted earnings per share (Korean won) | | ₩ | 11,803 | ₩ | 11,819 | |

[&]quot;The accompanying notes are an integral part of the consolidated financial statements."

Consolidated Statements of Changes in Equity

For the years ended December 31, 2022 and 2021 Hana Financial Group Inc. and its subsidiaries

| Accounts | Issued capital | Hybrid equity securities | Capital surplus | Capital adjustments | Accumulated other comprehensive income | Retained earnings | Equity attributable to equity holder of the parent | Non- controlling shareholder's equity | Total |
|---|----------------|--------------------------|-----------------|------------------------|--|----------------------|---|---|------------|
| As of January 1, 2021 | ₩ 1,501,210 | 2,007,927 | 10,579,945 | (315,030) | (1,001,953) | 17,941,584 | 30,713,683 | 886,605 | 31,600,288 |
| Annual dividends | | | | | | (393,611) | (393,611) | _ | (393,611) |
| Interimdividends | | | | | | (204,094) | (204,094) | _ | (204,094) |
| Issuance of hybrid equity securities | | 618,532 | | | | _ | 618,532 | 353,739 | 972,271 |
| Redemption of hybrid equity securities | | | (165) | | | _ | (165) | (29,835) | (30,000) |
| Paid-in capital increases of subsidiaries | _ | | (3,109) | (578) | _ | _ | (3,687) | 17 | (3,670) |
| Changes in shares of subsidiaries | _ | _ | _ | _ | _ | _ | _ | 12,889 | 12,889 |
| Dividends on hybrid equity securities | - | _ | - | _ | - | (80,083) | (80,083) | (15,941) | (96,024) |
| Reclassification of equity securities measured at FVOCI | - | _ | _ | _ | (37,096) | 37,096 | _ | _ | - |
| Others | _ | _ | (84) | 2 | _ | (2,748) | (2,830) | _ | (2,830) |
| Subtotal | 1,501,210 | 2,626,459 | 10,576,587 | (315,606) | (1,039,049) | 17,298,144 | 30,647,745 | 1,207,474 | 31,855,219 |
| Net income for the year | _ | | _ | _ | _ | 3,526,068 | 3,526,068 | 55,514 | 3,581,582 |
| Loss on valuation of financial assets measured at FVOCI | | | | | (386,160) | | (386,160) | (763) | (386,923) |
| Exchange differences on translation of foreign operations | | | | | 274,147 | | 274,147 | 17,880 | 292,027 |
| Changes in capital from valuation of equity method for investments in associates | - | - | - | - | 182,658 | - | 182,658 | (16) | 182,642 |
| Loss on valuation of net investment hedges | - | _ | _ | _ | (40,788) | _ | (40,788) | - | (40,788) |
| Gain on valuation of cash flow hedges | _ | _ | _ | _ | 1,899 | _ | 1,899 | 335 | 2,234 |
| Loss on valuation of fair value hedges | - | - | - | _ | (14,138) | _ | (14,138) | - | (14,138) |
| Other comprehensive loss on separate accounts | - | _ | _ | _ | (1,808) | _ | (1,808) | - | (1,808) |
| Effect of changes in credit risk on financial liabilities designated as measured at FVTPL | _ | _ | _ | _ | (10,356) | - | (10,356) | - | (10,356) |
| Remeasurement of the net defined benefit plan | _ | _ | _ | - | 39,368 | - | 39,368 | 281 | 39,649 |
| Total comprehensive income for the year | - | - | _ | _ | 44,822 | 3,526,068 | 3,570,890 | 73,231 | 3,644,121 |
| As of December 31, 2021 | ₩ 1,501,210 | 2,626,459 | 10,576,587 | (315,606) | (994,227) | 20,824,212 | 34,218,635 | 1,280,705 | 35,499,340 |

Consolidated Statements of Changes in Equity

For the years ended December 31, 2022 and 202 Hana Financial Group Inc. and its subsidiaries

| Accounts | Issued capital | Hybrid equity securities | Capital surplus | Capital adjustments | Accumulated other comprehensive income | Retained earnings | Equity attributable to equity holder of the parent | Non- controlling shareholder's equity | Total |
|---|----------------|--------------------------|-----------------|------------------------|--|----------------------|---|---|------------|
| As of January 1, 2022 | ₩ 1,501,210 | 2,626,459 | 10,576,587 | (315,606) | (994,227) | 20,824,212 | 34,218,635 | 1,280,705 | 35,499,340 |
| Annual dividends | _ | _ | _ | _ | _ | (699,752) | (699,752) | _ | (699,752) |
| Interimdividends | _ | _ | _ | _ | _ | (233,251) | (233,251) | _ | (233,251) |
| Issuance of hybrid equity securities | _ | 668,229 | _ | _ | _ | - | 668,229 | _ | 668,229 |
| Paid-in capital increases of subsidiaries | | | 4,905 | | 44 | - | 4,949 | 8,299 | 13,248 |
| Changes in shares of subsidiaries | _ | _ | (201) | _ | _ | _ | (201) | (325,082) | (325,283) |
| Dividends on hybrid equity securities | _ | _ | _ | _ | _ | (111,210) | (111,210) | (29,395) | (140,605) |
| Retirement of treasury stock | _ | | _ | 149,972 | | (149,972) | _ | _ | - |
| Reclassification of equity securities measured at FVOCI | - | _ | _ | _ | 224 | (224) | _ | _ | - |
| Others | - | - | _ | 593 | - | 13,099 | 13,692 | _ | 13,692 |
| Subtotal | 1,501,210 | 3,294,688 | 10,581,291 | (165,041) | (993,959) | 19,642,902 | 33,861,091 | 934,527 | 34,795,618 |
| Net income for the year | - | _ | _ | _ | _ | 3,552,391 | 3,552,391 | 68,803 | 3,621,194 |
| Loss on valuation of financial assets measured at FVOCI | | | _ | _ | (953,150) | - | (953,150) | (3,165) | (956,315) |
| Exchange differences on translation of foreign operations | | | | _ | 13,946 | - | 13,946 | (7,954) | 5,992 |
| Changes in capital from valuation of equity method for investments in associates | - | - | - | - | (16,068) | - | (16,068) | 26 | (16,042) |
| Loss on valuation of net investment hedges | - | - | - | _ | (20,529) | - | (20,529) | - | (20,529) |
| Gain (loss) on valuation of cash flow hedges | - | _ | _ | _ | (4,085) | - | (4,085) | 221 | (3,864) |
| Loss on valuation of fair value hedging instruments | - | _ | _ | _ | (11,861) | - | (11,861) | _ | (11,861) |
| Special account other comprehensive loss | - | _ | _ | - | (16,576) | - | (16,576) | _ | (16,576) |
| Effect of changes in credit risk on financial liabilities designated as measured at FVTPL | _ | _ | _ | _ | (7,675) | - | (7,675) | - | (7,675) |
| Remeasurement of the net defined benefit plan | _ | _ | | _ | 28,969 | - | 28,969 | (22) | 28,947 |
| Total comprehensive income for the year | _ | _ | _ | _ | (987,029) | 3,552,391 | 2,565,362 | 57,909 | 2,623,271 |
| As of December 31, 2022 | ₩ 1,501,210 | 3,294,688 | 10,581,291 | (165,041) | (1,980,988) | 23,195,293 | 36,426,453 | 992,436 | 37,418,889 |

[&]quot;The accompanying notes are an integral part of the consolidated financial statements."

Consolidated Statements of Cash Flows

For the years ended December 31, 2022 and 2021 Hana Financial Group Inc. and its subsidiaries

| | Accounts | 2022 | 2 | 2021 | |
|----|--|--------------|------------|--------------|-----------|
| Ι. | Net cash cash provided by operating activities | ₩ | 25,063,802 | ₩ | 4,929,909 |
| | 1. Net income before income tax expenses | 4,944,066 | | 4,904,925 | |
| | Adjustments to reconcile net income before income tax expense | (8,994,524) | | (7,504,043) | |
| | Interest expenses | 6,956,817 | | 3,430,286 | |
| | Interest income | (15,876,580) | | (10,867,491) | |
| | Dividends income | (74,761) | | (66,838) | |
| | 3. Adjustments to non-cash items | 3,044,397 | | 1,829,221 | |
| | Net loss on valuation of financial assets measured at FVTPL | 969,817 | | 277,054 | |
| | Net gain on disposal of financial assets measured at FVTPL | (32,675) | | (42,913) | |
| | Net gain on transaction of financial assets measured at FVOCI | (3,315) | | (93,754) | |
| | Reversal of credit loss allowance on financial assets measured at FVOCI | (361) | | (64) | |
| | Provision for credit loss allowance on financial assets measured at amortized cost | 66,946 | | 10,286 | |
| | Net loss on derivative assets used for hedging | 68,786 | | 50,561 | |
| | Net loss (gain) on foreign currencies transactions | (348,998) | | 254,606 | |
| | Provisions of credit loss allowance | 1,019,075 | | 522,996 | |
| | Depreciation and amortization | 932,061 | | 768,787 | |
| | Share-based compensation expenses | 21,976 | | 28,712 | |
| | Provision for postemployment benefit obligations | 183,733 | | 194,874 | |
| | Net gain on valuation of investments in associates and joint ventures | (233,166) | | (130,980) | |
| | Other gain relating to property and equipment and intangible assets | (5,278) | | (62,272) | |
| | Others | ₩ 405,796 | | ₩ 51,328 | |

| Accounts | 2022 | 2021 | | | |
|--|---------------|---------------|--|--|--|
| 4. Changes in operating assets and liabilities: | ₩ 17,572,976 | ₩ (107,019) | | | |
| Due from banks | (1,591,043) | (527,362) | | | |
| Financial assets measured at FVTPL (held for trading) | (12,567,383) | 4,638,039 | | | |
| Loans measured at amortized cost | (19,172,516) | (23,112,201) | | | |
| Net defined benefit assets | (134,965) | - | | | |
| Derivative assets used for hedging | (2,193) | (21,013) | | | |
| Investments in associates and joint ventures (related to dividend) | 47,465 | 23,201 | | | |
| Other assets | 1,664,482 | (2,849,831) | | | |
| Financial liabilities measured at FVTPL | 12,957,613 | (4,657,581) | | | |
| Deposits | 32,936,503 | 24,942,466 | | | |
| Derivative liabilities used for hedging | (3,118) | (20,857) | | | |
| Net defined benefit liabilities | (331,040) | (268,397) | | | |
| Provisions | 21,428 | 29,918 | | | |
| Other liabilities | 3,747,743 | 1,716,599 | | | |
| 5. Cash provided by operating activities: | 15,571,480 | 10,441,547 | | | |
| Interest received | 15,496,088 | 10,374,289 | | | |
| Dividend received | 75,392 | 67,258 | | | |
| 6. Cash used in operating activities: | (7,074,593) | (4,634,722) | | | |
| Accounts | 2022 | 2021 | | | |
| Interest paid | (5,550,366) | (3,530,628) | | | |
| Income tax paid | ₩ (1,524,227) | ₩ (1,104,094) | | | |

Consolidated Statements of Cash Flows

For the years ended December 31, 2022 and 2021 Hana Financial Group Inc. and its subsidiaries

| | Accounts | 202 | 2 | 202 | 1 |
|----------|--|--------------|--------------|--------------|-------------|
| — II. | Net cash flows used in investing activities | ₩ | (18,309,511) | ₩ | (8,931,994) |
| | Net cash flows used in acquisition of subsidiary | 121,520 | | 40,612 | |
| | Purchase of financial assets measured at FVTPL (other than held for trading) | (17,499,913) | | (16,707,654) | |
| | Proceeds from disposal of financial assets measured at FVTPL (other than held for trading) | 16,263,845 | | 17,005,226 | |
| | Purchase of financial assets measured at FVOCI | (11,856,630) | | (21,648,517) | |
| | Proceeds from disposal of financial assets measured at FVOCI | 13,108,794 | | 18,462,270 | |
| | Purchase of financial assets measured at amortized cost | (16,706,356) | | (10,511,761) | |
| | Proceeds from redemption of financial assets measured at amortized cost | 1,652,761 | | 5,429,969 | |
| | Acquisition of investment in associates and joint ventures | (633,803) | | (402,667) | |
| | Proceeds from disposal of investment in associates and joint ventures | 204,257 | | 357,122 | |
| | Purchase of property and equipment | (2,458,635) | | (1,163,853) | |
| | Proceeds from disposal of property and equipment | 189,121 | | 359,175 | |
| | Purchase of investment properties | (449,462) | | (171,986) | |
| | Proceeds from disposal of investment properties | 19,998 | | 127,847 | |
| | Acquisition of intangible assets | (309,289) | | (201,443) | |
| | Proceeds from disposal of intangible assets | 260 | | 9,122 | |
| | Decrease in non-current assets held for sale, net | 9,275 | | 16,147 | |
| | Decrease in guarantee deposit, net | ₩ 34,746 | | ₩ 68,397 | |

| | Accounts | 202 | 2 | 202 | I |
|------|--|--------------|------------|--------------|------------|
| III. | Net cash flows provided by financing activities | ₩ | 6,463,890 | ₩ | 6,872,426 |
| | Increase of borrowings, net | 6,082,331 | | 2,827,521 | |
| | Issuance of debentures | 38,261,070 | | 39,441,225 | |
| | Redemption of debentures | (36,938,979) | | (35,425,612) | |
| | Payment of lease liabilities | (223,276) | | (224,509) | |
| | Dividends payment | (933,003) | | (597,705) | |
| | Issuance of hybrid equity securities | 668,229 | | 618,532 | |
| | Dividends on hybrid equity securities | (111,210) | | (80,083) | |
| | Decrease in non-controlling shareholders' equity, net | (341,272) | | 304,128 | |
| | Net decrease in hedging instruments | _ | | 8,929 | |
| IV. | Effect of exchange rate changes on cash and cash equivalents | | (399,427) | | 644,916 |
| V. | Net increase in cash and cash equivalents (+ + +) | | 12,818,754 | | 3,515,257 |
| VI. | Cash and cash equivalents as of January 1 | | 26,936,469 | | 23,421,212 |
| VII. | Cash and cash equivalents as of December 31 (Note 57) | ₩ | 39,755,223 | ₩ | 26,936,469 |

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Notes to the Consolidated Financial Statements

As of and for the Years Ended December 31, 2022 and 2021 Hana Financial Group Inc. and its subsidiaries

1. COMPANY OVERVIEW

The general information of Hana Financial Group, Inc. ("HFG" or "the Company" or "the Parent Company"), which is the controlling entity, and its controlled subsidiaries (collectively, "the Group") under K-IFRS 1110, is as follows.

1-1 HFG

HFG was incorporated on December 1, 2005 under the Financial Holding Companies Act, in exchange for those entities' shares owned by the shareholders of Hana Bank, Hana Securities Co., Ltd. (formerly known as Hana Financial Investment Co., Ltd.) ("Hana Securities"), Hana TI (formerly known as Hana I&S) and Hana Institute of Finance. HFG primarily engages in the management of its subsidiaries, which operate in the financial services industry or closely related sectors in the Republic of Korea.

The capital stock amounted to $\mbox{$\seta$1,021,281$ million at the time of incorporation. As of December 31, 2022, the capital stock amounted to <math>\mbox{\seta1,501,210$ million due to stock dividends, stock exchanges and capital increase. Also, the Group's common shares were listed on the Korea Exchange ("KRX") on December 12, 200 5 and the Group's authorized common shares are 800,000,000 shares as of December 31, 2022.$

1–2 Scope of consolidation

Details of subsidiaries in scope of consolidation as of the December 31, 2022 are as follows:

| Classification | Country | Majorbusiness | Ownership (%)(*1) | Reporting date |
|---|---------|---|----------------------|-------------------|
| Subsidiaries of HFG: | • | | | |
| Hana Bank | Korea | Banking | 100.0 | December 31, 2022 |
| Hana Securities | Korea | Financial investments | 100.0 | December 31, 2022 |
| Hana Card | Korea | Credit card business | 100.0 | December 31, 2022 |
| Hana Capital | Korea | Installment credit financing | 100.0 | December 31, 2022 |
| Hana Asset Trust | Korea | Real estate trust | 100.0 | December 31, 2022 |
| Hana TI | Korea | Systemdevelopment service | 100.0 | December 31, 2022 |
| Hana Savings Bank | Korea | Mutual savings banking | 100.0 | December 31, 2022 |
| Hana Life Insurance | Korea | Lifeinsurance | 100.0 | December 31, 2022 |
| Hana Insurance. Co., Ltd. | Korea | Non-life insurance | 89.6 | December 31, 2022 |
| HIS | Korea | Transferagent | 100.0 | December 31, 2022 |
| Hana Alternative Asset Management | Korea | Asset management | 100.0 | December 31, 2022 |
| Hana Ventures | Korea | Newtechnology financial business | 100.0 | December 31, 2022 |
| Hana F&I, Inc | Korea | Investment and management service for non-performing loan ("NPL") asset-backed securities | 99.8 | December 31, 2022 |
| FinnqCo., Ltd. | Korea | Other financial business | 100.0 | December 31, 2022 |
| Hana Alternative BlackRock QIP Trust No. 73 | Korea | Privately placed fund | 33.3 | December 31, 2022 |
| Hana Alternative Special Investment Private Trust No.90 | Korea | Privately placed fund | 67.5 | December 31, 2022 |
| Hana Alternative UKGovernment Office Professional Investors' Private Real Estate Investment Feeder Trust No. 1 | Korea | Privately placed fund | 50.1 | December 31, 2022 |
| Hana Alternative Infra Special Investment Private Trust No. 3-1 | Korea | Privately placedfund | 100.0 | December 31, 2022 |
| Hana Alternative Infra Special Investment Private Trust No. 3-2 | Korea | Privately placedfund | 100.0 | December 31, 2022 |
| Hana Alternative Infra Special Investment Private Trust No. 3-3 | Korea | Privately placed fund | 100.0 | December 31, 2022 |
| Hana Alternative Energy Infra Special Asset Fund 3-4 | Korea | Privately placed fund | 100.0 | December 31, 2022 |
| Hana Alternative Special Investment Private Trust No. 100 | Korea | Privately placed fund | 50.0 | December 31, 2022 |
| Hana Alternative Special Investment Private Trust No. 102 | Korea | Privately placedfund | 44.0 | December 31, 2022 |
| Hana Alternative Special Investment Private Trust No. 108 | Korea | Privately placed fund | 83.3 | December 31, 2022 |
| Hana Alternative Special Investment Private Trust No. 123-1 (USD) | Korea | Privately placedfund | 100.0 | December 31, 2022 |
| Hana Alternative Special Asset Private Trust No. 126 | Korea | Privately placed fund | 30.3 | December 31, 2022 |
| Hana Private Real Estate Investment Trust No. 165 | Korea | Privately placed fund | 58.0 | December 31, 2022 |
| Hana Alternative Investment Land Chip Real Estate Private Trust No. 68 | Korea | Privately placed fund | 52.2 | December 31, 2022 |
| Hana Ventures NewTechnology Investment Association No. 4 | Korea | Newtechnology financial business | 100.0 | December 31, 2022 |
| Hana Ventures NewTechnology Investment Association No. 6 | Korea | Newtechnology financial business | 73.8 | December 31, 2022 |
| Hana Ventures NewTechnology Investment Association No. 7 | Korea | Newtechnology financial business | 100.0 | December 31, 2022 |
| HANA Alternative Wando Geum-il Wind Power Infra Special Asset No. 1 | Korea | Privately placed fund | 66.7 | December 31, 2022 |
| Hana Special NewDeal National Representative Growth Private Trust | Korea | Privately placed fund | 100.0 | December 31, 2022 |
| Hana Alternative Frontier Private Investment Trust No. 1 | Korea | Privately placedfund | 67.6 | December 31, 2022 |
| Hana Alternative Private Real Estate Investment Trust No. 119 | Korea | Privately placedfund | 40.2 | December 31, 2022 |
| Hana Alternative Private Real Estate Investment Trust No. 181 | Korea | Privately placedfund | 52.5 | December 31, 2022 |
| Hana Alternative Private Real Estate Investment Trust No. 186 | Korea | Privately placedfund | 80.7 | December 31, 2022 |
| Hana Alternative Private Real Estate Investment Trust No. 187 | Korea | Privately placed fund | 70.0 | December 31, 2022 |
| Hana Alternative Investment PRC Logistics General Private Investment Trust No. 1 (professional) | Korea | Privately placed fund | 100.0 | December31, 2022 |
| Hana Beyond Finance Fund | Korea | Privately placed fund | 100.0 | December 31, 2022 |
| Hana Alternative Private Real Estate Investment Trust No. 180 | Korea | Privately placedfund | 100.0 | December 31, 2022 |
| Hana Alternative Private Real Estate Investment Trust No. 182 | Korea | Privately placed fund | 61.9 | December 31, 2022 |
| Hana Alternative Private Real Estate Investment Trust No. 185 | Korea | Privately placedfund | 88.5 | December 31, 2022 |

| Classification | Country | Majorbusiness | Ownership (%) (*1) | Reporting date |
|---|------------------|--------------------------|-----------------------|-------------------|
| Hana Alternative Investment Chuncheon Fuel Cell General Private Investment Trust No. 1 (professional) | Korea | Privately placed fund | 36.4 | December 31, 2022 |
| Defense Technology Innovation Private Investment Trust | Korea | Privately placed fund | 100.0 | December 31, 2022 |
| Specified Money Trust (HFG) (*2) | Korea | Specifiedmoney trust | - | December 31, 2022 |
| Subsidiaries of Hana Bank: | | | | |
| Hana Bank (China) Co., Ltd. | China | Financial business | 100.0 | December 31, 2022 |
| KEB Hana Bank Canada | Canada | Financial business | 100.0 | December 31, 2022 |
| KEB Hana Bank Germany | Germany | Financial business | 100.0 | December 31, 2022 |
| PT. Bank KEB Hana Indonesia | Indonesia | Financial business | 69.0 | December 31, 2022 |
| Banco KEB Hana do Brazil S.A. | Brazil | Financial business | 100.0 | December 31, 2022 |
| KEB Hana NY Financial Corp. | United States | Financial business | 100.0 | December 31, 2022 |
| KEB Hana LA Financial Corp. | United States | Financial business | 100.0 | December 31, 2022 |
| KEB Hana Global Finance | HongKong | Financial business | 100.0 | December 31, 2022 |
| KEBHNBRUSILC | Russia | Financial business | 99.9 | December 31, 2022 |
| BANCO KEB HANA MEXICO S.A. | Mexico | Financial business | 99.9 | December 31, 2022 |
| Hana Bancorp, inc. | United States | Financial business | 96.8 | December 31, 2022 |
| GLNInternational Inc. | Korea | Other financial business | 85.4 | December 31, 2022 |
| UBS Hana Power Private Equity Investment Trust 21 [Bond] | Korea | Privately placedfund | 100.0 | December 31, 2022 |
| Hyundai Trust PEF Invest 16 [Bond] | Korea | Privately placedfund | 100.0 | December 31, 2022 |
| Kyobo Axa Tomorrow Private Equity KH-1 [Bond] | Korea | Privately placedfund | 100.0 | December 31, 2022 |
| Sevenstar Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Marine Solution Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Chungangstar Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Display First Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Ocean Betts The First Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Hin the Holdings 1st LLC(*3) | Korea | Other financial business | - | December 31, 2022 |
| H-Plus 1st, L.L.C. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana CK1st Co., Ltd (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Hin the Holdings 2nd L.L.C. (*3) | Korea | Other financial business | - | December 31, 2022 |
| PIOTOWER1st, LLC (*3) | Korea | Other financial business | - | December 31, 2022 |
| HEONEQ1st, LLC(*3) | Korea | Other financial business | - | December 31, 2022 |
| HCONEQ1st, LLC (*3) | Korea | Other financial business | - | December 31, 2022 |
| HHotel ONEQ 1st, LLC (*3) | Korea | Other financial business | - | December 31, 2022 |
| DPS 2nd, Co., Ltd (*3) | Korea | Other financial business | - | December 31, 2022 |
| Bbq1q1st. LLC(*3) | Korea | Other financial business | - | December 31, 2022 |
| Skoffice 1q1st. LLC(*3) | Korea | Other financial business | - | December 31, 2022 |
| Cleanenergy 1q1st. LLC(*3) | Korea | Other financial business | - | December 31, 2022 |
| HANADL First Co., Ltd (*3) | Korea | Other financial business | - | December 31, 2022 |
| HANATERMINUS First Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Tech Value-Up Investment Fund | Korea | Other financial business | 100.0 | December 31, 2022 |
| Hana 1Q Startup Investment Fund | Korea | Other financial business | 100.0 | December 31, 2022 |
| THE HAMONEQ 1st. LLC (*3) | Korea | Other financial business | - | December 31, 2022 |
| HANABAY1st. LLC(*3) | Korea | Other financial business | - | December 31, 2022 |
| HANAI.S 1st. LLC(*3) | Korea | Other financial business | - | December 31, 2022 |
| HANAI.G1st. LLC(*3) | Korea | Other financial business | - | December 31, 2022 |

| Classification | Country | Majorbusiness | Ownership (%) (*1) | Reporting date |
|---|-------------------|---------------------------------------|-----------------------|-------------------|
| GRANDONEQ 1st. LLC (*3) | Korea | Other financial business | - | December 31, 2022 |
| THE MIRAE ONEQ 1st. LLC (*3) | Korea | Other financial business | - | December 31, 2022 |
| DONG DAEGUTERMINAL 2nd. LLC (*3) | Korea | Other financial business | - | December 31, 2022 |
| KENDALL NO.91st. LLC(*3) | Korea | Other financial business | - | December 31, 2022 |
| BYK3rdCo., Ltd.(*3) | Korea | Other financial business | - | December 31, 2022 |
| Mini Hana 1st, LLC(*3) | Korea | Other financial business | - | December 31, 2022 |
| Jinwoori 1Q 1st, LLC(*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Double H1Q4th Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Double H1Q5th Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| H-ECHO 1st, LLC (*3) | Korea | Other financial business | - | December 31, 2022 |
| HANASTARLORD1st, LLC(*3) | Korea | Other financial business | - | December 31, 2022 |
| CLEANWORLD1st, LLC(*3) | Korea | Other financial business | - | December 31, 2022 |
| H-HANA1st, LLC (*3) | Korea | Other financial business | - | December 31, 2022 |
| HANAANANTI1st, LLC(*3) | Korea | Other financial business | - | December 31, 2022 |
| One QB777F66872Co., Ltd. (*3) | Cayman Islands | Other financial business | - | December 31, 2022 |
| NAE CHONHANA 1st, LLC (*3) | Korea | Other financial business | - | December 31, 2022 |
| DRAGONHANA1st, LLC(*3) | Korea | Other financial business | - | December 31, 2022 |
| HANABAEKSALOGISTICS 1st, LLC (*3) | Korea | Other financial business | - | December 31, 2022 |
| HANAS ONE Q1st, LLC(*3) | Korea | Other financial business | - | December 31, 2022 |
| HOME PLUS HANA CONNECT, LLC (*3) | Korea | Other financial business | _ | December 31, 2022 |
| Antarctica 1st, Ltd(*3) | Korea | Other financial business | _ | December 31, 2022 |
| Enerbility Hana 1st, Ltd (*3) | Korea | Other financial business | _ | December 31, 2022 |
| Hana Plant 1st, Ltd (*3) | Korea | Other financial business | _ | December 31, 2022 |
| Gs Hana 1st, Ltd (*3) | Korea | Other financial business | _ | December 31, 2022 |
| Cha Cha Hana 1st, Ltd (*3) | Korea | Other financial business | _ | December 31, 2022 |
| TA1st, Ltd(*3) | Korea | Other financial business | _ | December 31, 2022 |
| Neostar 6th, Ltd(*3) | Korea | Other financial business | _ | December 31, 2022 |
| Galaxia 1Q 1st, Ltd(*3) | Korea | Other financial business | _ | December 31, 2022 |
| Trust accounts guaranteeing the repayment of principal | Korea | Trustaccount | _ | December 31, 2022 |
| Subsidiaries of Hana Bancorp, inc.: | | | | - |
| KEB Hana Bank USA | United States | Banking | 100.0 | December 31, 2022 |
| Subsidiaries of Hana Securities: | | | | |
| Hana the First Private Equity Fund | Korea | Privately placed fund for institution | 48.9 | December 31, 2022 |
| Hana Daol Land Chip Heungdeok Real Estate Private Fund 35 | Korea | Privately placed fund | 100.0 | December 31, 2022 |
| Hana Equity Investment Management (Shenzhen) Co., Ltd | China | Investment consulting | 50.1 | December 31, 2022 |
| Hana Asset Management Asia Pte. Ltd. | Singapore | Investment consulting | 100.0 | December 31, 2022 |
| Hana Land Chip Houston Real Estate Private Fund 59 | Korea | Privately placed fund | 100.0 | December 31, 2022 |
| Hana the Third Private Equity Fund | Korea | Privately placed fund for institution | 35.0 | December 31, 2022 |
| Citizenfyu 1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Portfolio 1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| YellowBalloon3rdCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Areca 1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Charlemont Exchange (*3) | Korea | Other financial business | - | December 31, 2022 |
| Centaur First Co., Ltd. (*3) | Korea | Other financial business | _ | December 31, 2022 |

| Classification | Country | Majorbusiness | Ownership (%) (*1) | Reporting date |
|--|---------|--------------------------|-----------------------|-------------------|
| Hana Formula-E Private Special Asset Fund 114 | Korea | Privately placedfund | 99.4 | December 31, 2022 |
| KBMobility Solution Private Special Asset Fund 1 | Korea | Privately placedfund | 99.9 | December 31, 2022 |
| SanJose Real 1 st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| GIFRocinanteCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana US Emerging Office Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| AIP Energy Infrastructure Specialized Privately Placed Fund Trust #2 | Korea | Privately placedfund | 99.8 | December 31, 2022 |
| Capstone EUPrivate Investment Trust No. 13 (formerly known as Hana Private Real Estate Investment Trust No. 130) | Korea | Privately placed fund | 100.0 | December 31, 2022 |
| HERITAGE US Manhattan Qualified Investors Real Estate Private Investment Trust No. 2 (USD) | Korea | Privately placedfund | 99.8 | December 31, 2022 |
| Shinhan AIM Infrastructure Fund No. 6-2 | Korea | Privately placedfund | 100.0 | December 31, 2022 |
| STICLogistics Qualified Investors Real Estate Investment Trust No. 3 (formerly known as K-REITs Specialized Private Investment Trust No. 23) | Korea | Privately placed fund | 99.6 | December 31, 2022 |
| Shinhan AIM Infrastructure Fund No. 6-A | Korea | Privately placedfund | 99.3 | December 31, 2022 |
| KAIM Global Value Specialized Private Investment Trust No. 1 | Korea | Privately placedfund | 99.9 | December 31, 2022 |
| AIP Energy Transport Infrastructure Specialized Privately Placed Fund Trust #4 | Korea | Privately placed fund | 99.9 | December 31, 2022 |
| Hana Trust Global REIT One Co., Ltd. | Korea | Real estate management | 100.0 | December 31, 2022 |
| Hana AIC1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Peach Shine 2nd Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hanalogis No. 1 Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| GIFBoomerangCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| GIFSowol-ro Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Runway Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| JLBSquaireCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Private Real Estate Investment Trust No. 137 | Korea | Privately placedfund | 99.9 | December 31, 2022 |
| Broadway 1stCo. Ltd(*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana-Sinjang1stCo.,Ltd(*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Datacenter 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| AchenhaimCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Eco CloverCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana 5-geori 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana-UlsanCo., Ltd(*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Port 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| HFCaribbeanCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| GMHB2nd., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana InChungmu 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| HangdongWest 2nd., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Wonderful GM1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| GIFOlympus Co., Ltd. (*3) | Korea | Other financial business | _ | December 31, 2022 |
| ZeroToOne1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Heaven 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana 1 Q Logis B Co., Ltd. (*3) | Korea | Other financial business | _ | December 31, 2022 |
| Hana Bukjincheon 2nd., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Tree Unique 1st., Co., Ltd. (*3) | Korea | Other financial business | _ | December 31, 2022 |
| Ernest Hyun 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| GIFMDCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Alternative Investment Shipping Specialized Private Equity Fund No. 1 | Korea | Privately placedfund | 99.9 | December 31, 2022 |
| i iaanazzuen iauven ivesu nen it si lippin igspeulatizea Private Equity Puridino. T | Noted | i iivaleiy piacediurid | 99.9 | December 31, 2022 |

| Classification | Country | Majorbusiness | Ownership (%) (*1) | Reporting date |
|---|---------|--------------------------|-----------------------|-------------------|
| Darby Hana NewYork Hotel Specialized Private Investment Trust No. 1 | Korea | Privately placedfund | 99.9 | December 31, 2022 |
| Tree Yard 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Tree Axion 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Easy Tree 6th., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| AIP Environment Infrastructure Specialized Privately Placed Fund Trust No. 1 | Korea | Privately placedfund | 99.2 | December 31, 2022 |
| JA8th., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Joon Dragon Fairness 2nd., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Asan Baebang 1 st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Zeronine 1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| HighyieldStoneCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| The 1st GM23thCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| HanaJH2ndCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Gamsam1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| JEYComplex Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| JHYComplex Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Sanchylly Renewable Energy Privat Equity Trust II | Korea | Privately placedfund | 100.0 | December 31, 2022 |
| Hana Alternative Specialized Private Placement Real Estate Investment Trust No. 175-1 | Korea | Privately placedfund | 100.0 | December 31, 2022 |
| Hana Alternative Specialized Private Placement Real Estate Investment Trust No. 175-2 | Korea | Privately placedfund | 100.0 | December 31, 2022 |
| KTB Global CRE Private Investment Trust No. 49 | Korea | Privately placedfund | 100.0 | December 31, 2022 |
| Vestas Europe Logistics Private Real Estate Investment Trust No. 73B | Korea | Privately placedfund | 97.4 | December 31, 2022 |
| Mastern US Private Real Estate Investment Trust No. 52 | Korea | Privately placedfund | 96.4 | December 31, 2022 |
| Vestas Private Real Estate Investment Trust No.82 | Korea | Privately placedfund | 99.9 | December 31, 2022 |
| Meritz Private Real Estate Investment Trust No. 30 | Korea | Privately placedfund | 99.9 | December 31, 2022 |
| Hana Residence 1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Residence 2nd Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| NewDeal Beomeo 1 Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Joon Dragon Brite Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| E-Master14thCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Planet Seocho 2nd Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| E-Master18thCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Boston Core 1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Boston Core 2nd Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| E-Master17thCo., Ltd. (*3) | Korea | Other financial business | _ | December 31, 2022 |
| Geomdan Nine One 1 st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Geomdan Nine One 2nd Co., Ltd. (*3) | Korea | Other financial business | _ | December 31, 2022 |
| NewDeal IDC1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| NewDeal IDC2ndCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| US Alix 1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Western 1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Core-value Securitization 1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| BlackWing1stCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Joon Dragon Mark 1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana HD1st Co., Ltd. (*3) | Korea | Other financial business | _ | December 31, 2022 |
| Hana 4Sky Co., Ltd. (*3) | Korea | Other financial business | _ | December 31, 2022 |
| Hana Auto 1st Co., Ltd. (*3) | Korea | Other financial business | _ | December 31, 2022 |

| Classification | Country | Majorbusiness | Ownership (%) (*1) | Reporting date |
|--|---------|-------------------------------------|-----------------------|--------------------|
| Hana Suseong 1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Dowon 1 st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hmidan 1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Ernest Hyun2nd., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| DAGlobal Logis 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| SFDadae NewDream., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| One Mega Wonchang 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Parkway., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| NewDeal IDC3rdCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| JHDouble 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana 1 QOSC., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| J-OnPrime., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| J-OnEco., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Dongnae 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Dongnae 2nd., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| HanaJangpo 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| The Conral GM23rd., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| The Conral GM22nd., Co., Ltd. (*3) | Korea | Otherfinancial business | - | December 31, 2022 |
| Hana Ulsan Yaeum 1 st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Moon 101st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Synergy 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| NewDeal IDC4thCo., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Haeundae Jungdong 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Haeundae Jungdong 2nd., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| BlueShining1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Chookhyun 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Hana Chookhyun 2nd., Co., Ltd. (*3) | Korea | Other financial business | _ | December 31, 2022 |
| ExcelsiopSaka IMP., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| BlackMir2nd., Co., Ltd. (*3) | Korea | Otherfinancial business | - | December 31, 2022 |
| Hana Logis Point 1st., Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| WithGM7th., Co., Ltd. (*3) | Korea | Otherfinancial business | - | December 31, 2022 |
| WithGM9th., Co., Ltd. (*3) | Korea | Otherfinancial business | _ | December 31, 2022 |
| Tongyeong Ellioju 1st Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| HanaJaehyun 1st Co., Ltd. (*3) | Korea | Otherfinancial business | _ | December 31, 2022 |
| Planet AyajinCo., Ltd.(*3) | Korea | Other financial business | _ | December 31, 2022 |
| Stade Blue 7th Co., Ltd. (*3) | Korea | Otherfinancial business | _ | December 31, 2022 |
| Hmidan 2nd Co., Ltd. (*3) | Korea | Other financial business | - | December 31, 2022 |
| Subsidiaries of Hanathe 3rd PEF: | | | | l. |
| Bareun Food Factory Co., Ltd. | Korea | Other financial business | 100.0 | December 31, 2022 |
| Subsidiaries of Bareun Food Factory Co., Ltd.: | | | | <u> </u> |
| DduksimCo., Ltd.(*4) | Korea | Korean traditional food business | 81.8 | September 30, 2022 |
| KeumhoTradingCo., Ltd. (*4) | Korea | Seafoodprocessingbusiness | 67.4 | September 30, 2022 |
| Subsidiaries of Dduksim: | | 1 | 1 | 1 |
| SeojewonCo.,Ltd(*4) | Korea | Franchise business | 70.0 | September 30, 2022 |
| Subsidiaries of Keumho Trading Co., Ltd.: | 1.0704 | . 10.10.10000011000 | . 0.0 | _ 551020100, 2022 |
| Keumho Seafood. Co., Ltd. (*4) | Korea | Seafoodprocessingbusiness | 100.0 | September 30, 2022 |
| | | , , | | <u> </u> |
| Designmeal co., Ltd. (*4) | Korea | Seafoodprocessingbusiness | 100.0 | September 30, 2022 |

| Classification | Country | Majorbusiness | Ownership (%)(*1) | Reporting date |
|---|-----------|----------------------------------|----------------------|-------------------|
| Subsidiaries of Hana Equity Investment Management (Shenzhen) Co., Ltd.: | | | | |
| Shenzhen Hana No. 1 Investment Partnership(Limited Partnership) | China | Other financial business | 100.0 | December 31, 2022 |
| HICGlobal Limited(*3) | China | Other financial business | - | December 31, 2022 |
| Subsidiaries of Hana Card: | | | | |
| Hana Card Payment | Japan | Other financial support service | 100.0 | December 31, 2022 |
| Hana Card 2020-1 Asset Securitization Specialty. Co., Ltd. (*3) | Korea | Asset securitization | 0.5 | December 31, 2022 |
| Hana Card 2021 - 1 Asset Securitization Specialty. Co., Ltd. (*3) | Korea | Asset securitization | 0.5 | December 31, 2022 |
| Hana Card 2022-1 Asset Securitization Specialty. Co., Ltd. (*3) | Korea | Asset securitization | 0.5 | December 31, 2022 |
| Subsidiaries of Hana Capital: | | | | |
| HanaVentures No. 2 Investment Fund | Korea | Newtechnology financial business | 100.0 | December 31, 2022 |
| HanaVentures No. 3 Investment Fund | Korea | Newtechnology financial business | 100.0 | December 31, 2022 |
| Hana Capital-Capstone Venture Fund | Korea | Newtechnology financial business | 88.9 | December 31, 2022 |
| Hana Capital-Capstone Venture Fund II | Korea | Newtechnology financial business | 90.0 | December 31, 2022 |
| Hana Collaboration Pre-IPO Fund | Korea | Newtechnology financial business | 100.0 | December 31, 2022 |
| Hana Micro Finance, Ltd. | Myanmar | Financial business | 100.0 | December 31, 2022 |
| Subsidiaries of Hana Alternative Asset management: | | | | |
| Hana Alternative Private Real Estate Investment Trust No. 158 | Korea | Trust and collective investment | 92.3 | December 31, 2022 |
| Hana Private Real Estate Investment Trust No. 166 | Korea | Trust and collective investment | 99.8 | December 31, 2022 |
| Hana Global REITCO., Ltd. | Korea | Real estate business | 100.0 | December 31, 2022 |
| Hana Global No. 1 REIT CO., Ltd. | Korea | Real estate business | 100.0 | December 31, 2022 |
| Hana Alternative Private Real Estate Investment Trust No. 192 | Korea | Trust and collective investment | 80.0 | December 31, 2022 |
| Subsidiaries of Hana Private Real Estate Investment Trust No. 166: | | | | |
| H&Hinvestment4(*3) | Korea | Other financial business | - | December 31, 2022 |
| Subsidiaries of HanaTI: | | | | |
| PTNextTransformtechIndonesia | Indonesia | System development service | 100.0 | December 31, 2022 |
| Subsidiaries of Hana F&I, Inc: | | | | |
| KEBTheLeftco., Ltd. (*3) | Korea | Asset securitization | - | December 31, 2022 |
| HFTSecondSecuritizationSpecialty (*3) | Korea | Asset securitization | 5.0 | December 31, 2022 |
| Hana SHFirst Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 14.0 | December 31, 2022 |
| HFS SecondSecuritizationSpecialty (*3) | Korea | Asset securitization | 14.0 | December 31, 2022 |
| Hana KFirst Securitization Specialty (*3) | Korea | Asset securitization | 14.0 | December 31, 2022 |
| HFDFirstSecuritizationSpecialty (*3) | Korea | Asset securitization | 14.0 | December 31, 2022 |
| HFS 73ASecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFS 73B Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFW 73 Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFK74SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFSCN81 Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFB81 Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| Fine Fifth Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFS 82 Securitization Specialty Co Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFF82 Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |

| Classification | Country | Majorbusiness | Ownership (%) (*1) | Reporting date |
|---|---------|--|-----------------------|-------------------|
| HFI83SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFS 84SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFF84SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFK84SecuritizationSpecialtyCo., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFFN91 Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFI 91 SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFS 92ASecuritization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFS 92B Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFB92SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFI93SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFN92 Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFB93SecuritizationSpecialty Co.,Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFF93SecuritizationSpecialtyCo.,Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFF94SecuritizationSpecialty Co.,Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFF95SecuritizationSpecialty Co.,Ltd. | Korea | Asset securitization | 100.0 | December 31, 2022 |
| HFI01BSecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFH02 Inc. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFI01ASecuritization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFD02SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFN02 Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFK02SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFC03 Inc. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFI03B Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFB03SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFG03Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFD03SecuritizationSpecialty Co.,Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFG04SecuritizationSpecialty Co.,Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFI04SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFI11 Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFG11 Securitization Specialty Co.,Ltd.(*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFT12SecuritizationSpecialty Co.,Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFTW12SecuritizationSpecialty Co.,Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFI12ASecuritization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFI 12C Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFW 13 Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFN13Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFG13SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFK14SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFB14SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFN14SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFT14SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HF114ASecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HF114BSecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFM21 Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | - | December 31, 2022 |
| HF1st Corporate Private Equity Fund | Korea | Privately placedfund | 82.0 | December 31, 2022 |
| HFB21 Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFI22 Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization Asset securitization | 9.0 | December 31, 2022 |
| I ii izz occunizationopocially oo., Ltd. (^0) | Notea | Asset secunitization i | 5.0 | December 01, 2022 |

| Classification | Country | Majorbusiness | Ownership (%) (*1) | Reporting date |
|--|------------------|--------------------------|-----------------------|--------------------|
| HFG22SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFF22 Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFBG23SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFS 23 Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFN23 Securitization Specialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| HFF24SecuritizationSpecialty Co., Ltd. (*3) | Korea | Asset securitization | 9.0 | December 31, 2022 |
| Subsidiaries of Hana Insurance Co., Ltd.: | | | | |
| Hana Financial Find Inc. | Korea | Financial business | 100.0 | December 31, 2022 |
| Subsidiary of Hana Alternative Special Investment Private Trust No.90: | | | | |
| H&Hinvestment (*3) | Korea | Other financial business | - | December 31, 2022 |
| Subsidiary of Hana Alternative Special investment private Trust No. 123-1 (USD): | | | | |
| Dragon One Investment Limited | HongKong | Other financial business | 100.0 | December 31, 2022 |
| Subsidiaries of Dragon One Investment Limited: | | | | |
| QFLP | China | Other financial business | 100.0 | December 31, 2022 |
| Subsidiary of Hana Alternative Special Asset Private Trust No. 126: | | | | |
| K-REITLLC(*4) | United States | Other financial business | 100.0 | November 30, 2022 |
| Subsidiaries of Hana Private Real Estate Investment Trust No. 165: | | | | |
| H&Hinvestment 3 (*3) | Korea | Other financial business | - | December 31, 2022 |
| Subsidiaries of Hana Alternative Private Real Estate Investment Trust No. 181: | | | | |
| SHORELINE SQUARE REITLLC (*4) | United States | Real estate business | 100.0 | September 30, 2022 |
| Subsidiaries of Hana Alternative Private Real Estate Investment Trust No. 182: | | | | |
| BOSTONSEAPORTALYXSGREIT, LLC(*4) | United States | Real estate business | 100.0 | September 30, 2022 |
| Subsidiaries of Hana Alternative Private Real Estate Investment Trust No. 185: | | | | |
| 70HudsonREITLLC(*4) | United States | Asset securitization | 88.2 | November 30, 2022 |
| Subsidiaries of 70 Hudson REITLLC: | | | | |
| 70HudsonLLC-PropCo(*4) | United States | Real estate business | 100 | November 30, 2022 |
| | | | • | |

- (*1) The ownership percentage was calculated based on the shareholding of the ultimate parent company.
- (*2) Specified money trust accounts consist of different accounts but the number of accounts is not recorded.
- (*3) It is included in the scope of consolidation since the subsidiary provides granting of credit.
- (*4) As the consolidated financial statements as of December 31, 2022, were not available, the Group used the most recent consolidated financial statements available as of December 31, 2022.

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The financial information of subsidiaries as of December 31, 2022 and 2021, is as follows (Korean won in millions):

<December 31, 2022>

| Classification | Assets | Liabilities | Equity | Revenue | Net income (loss) | Other comprehensive income (loss) | Comprehensive income (loss) |
|--|---------------|-------------|------------|--------------|----------------------|---|-----------------------------|
| KEB Hana Bank (*1) | 485, 308, 744 | 455,343,376 | 29,965,368 | 53,702,914 | 3,111,699 | (663,520) | 2,448,179 |
| Hana Securities (*1) | 43,345,325 | 37,539,264 | 5,806,061 | 13, 121, 776 | 130,645 | (104,646) | 25,999 |
| Hana Card(*1) | 12,284,060 | 10,067,212 | 2,216,848 | 1,445,422 | 191,981 | (5,711) | 186,270 |
| Hana Capital (*1) | 16,638,148 | 14,567,235 | 2,070,913 | 1,484,056 | 299,663 | (5,773) | 293,890 |
| Hana Asset Trust | 555,240 | 78,829 | 476,411 | 162,704 | 83,908 | - | 83,908 |
| HanaTI(*1) | 453,989 | 257,321 | 196,668 | 291,887 | 84,891 | 6,152 | 91,043 |
| Hana Savings Bank | 2,821,799 | 2,444,773 | 377,026 | 187, 122 | 23,283 | 156 | 23,439 |
| Hana Life Insurance | 5,876,464 | 5,662,081 | 214,383 | 1,049,573 | 10,148 | (211, 154) | (201,006) |
| HIS | 65,710 | 15,002 | 50,708 | 38, 136 | 9,197 | (242) | 8,955 |
| Hana Alternative Asset Management Co., Ltd.(*1) | 243,238 | 29,497 | 213,741 | 73,661 | 28, 155 | - | 28, 155 |
| Hana Ventures, Ltd. | 111,515 | 3,552 | 107,963 | 12,884 | 2,321 | 157 | 2,478 |
| HanaF&I, Inc.(*1) | 1,302,476 | 988,352 | 314, 124 | 105,258 | 30,350 | 178 | 30,528 |
| Hana Insurance Co., Ltd. (*1) | 1,526,322 | 1,255,259 | 271,063 | 635,669 | (84,348) | (30,458) | (114,806) |
| HANAASSETMANAGEMENTASIA(*3) | - | - | - | - | (708) | (291) | (999) |
| FinnqCo., Ltd. | 58,950 | 6,359 | 52,591 | 7,892 | (12,380) | - | (12,380) |
| SpecifiedMoneyTrust(HFG) | 777,233 | 56 | 777,177 | 2,906 | 2,177 | - | 2,177 |
| Hana Alternative BlackRock QIP Trust No. 73 | 57,497 | 75 | 57,422 | 7,538 | 3,800 | - | 3,800 |
| Hana Professional Investment Type Private Equity 90 | 20,296 | 1,977 | 18,319 | 4,370 | 1,265 | - | 1,265 |
| Hana Alternative UKGovernment Office Professional Investors' Private Real Estate Investment Feeder Trust No. 1 | 1,638 | 1,617 | 21 | 29 | (93) | 104 | 11 |
| Hana Alternative Infra Special Investment Private Trust No. 3-1 | 38,716 | 43 | 38,673 | 957 | 514 | - | 514 |
| Hana Alternative Infra Special Investment Private Trust No. 3-2 | 6,466 | 9 | 6,457 | 466 | 447 | 405 | 852 |
| HanaAlternative Infra Special Investment Private Trust No. 3-3 | 22,629 | 4 | 22,625 | 2,213 | 2,006 | _ | 2,006 |
| HanaAlternative Infra Special Investment rivate Trust No. 3-4 | 36,240 | 45 | 36, 195 | 2,286 | 2,105 | 200 | 2,305 |
| Hana Alternative Special Investment Private Trust No. 100 | 11,107 | 11 | 11,096 | 970 | 941 | _ | 941 |
| Hana Alternative Special Investment Private Trust No. 102 | 76,243 | 532 | 75,711 | 12,017 | 6,961 | _ | 6,961 |
| Hana Alternative Special Investment Private Trust No. 108 | 9,439 | 27 | 9,412 | 1,397 | 402 | _ | 402 |
| HanaAlternativeSpecialInvestment PrivateTrustNo. 123-1 | 13,025 | 586 | 12,439 | (14,749) | 48,662 | (9,417) | 39,245 |
| Hana Alternative Houston Private Investment Trust No. 121(*3) | - | - | - | 11,662 | 3,859 | _ | 3,859 |
| Alternative Special Asset Private Trust No. 126 | 104,581 | 11,933 | 92,648 | 83 | (6,773) | 6,830 | 57 |
| Hana Alternative Investment Land Chip Real Estate Private Trust 68 | 178,797 | 136,618 | 42, 179 | 196 | 5,087 | _ | 5,087 |
| Hana Private Real Estate Investment Trust No. 165 | 55,659 | 4,617 | 51,042 | 9,367 | 2,770 | - | 2,770 |

| Classification | Assets | Liabilities | Equity | Revenue | Net income (loss) | Other comprehensive income (loss) | Comprehensive income (loss) |
|--|---------|-------------|----------|---------|----------------------|---|-----------------------------|
| HanaAlternativeSpecial InvestmentWando Geumil OffshoreWindPowerPrivateTrust No. 1 | 2,045 | 58 | 1,987 | 134 | 108 | _ | 108 |
| HanaVentures NewTechnology Investment Association No. 4 | 790 | 22 | 768 | 2 | (5,049) | - | (5,049) |
| HanaVentures NewTechnology Investment Association No. 6 | 11,450 | 33 | 11,417 | 3,461 | 3,314 | _ | 3,314 |
| HanaVentures NewTechnology Investment Association No. 7 | 5,285 | 28 | 5,257 | 3 | (113) | _ | (113) |
| Hana Special New Deal National Representative Growth Private Trust | 27,024 | 72 | 26,952 | 85 | (21) | - | (21) |
| HanaAlternativePrivateRealEstate InvestmentTrustNo. 119 | 12,589 | 101 | 12,488 | 14 | (607) | _ | (607) |
| Hana Alternative Frontier Private Investment Trust No. 1 | 78,819 | 1,114 | 77,705 | 5, 489 | 4,042 | _ | 4,042 |
| HanaAlternativeInvestment PRCLogistics General Private Investment Trust No. 1 (professional) (*2) | 61,837 | 9,824 | 52,013 | 4,359 | 904 | 167 | 1,071 |
| Hana Alternative Private Real Estate Investment Trust No. 181 (*2) | 44,686 | 1,946 | 42,740 | 2,235 | 150 | 2,441 | 2,591 |
| Hana Alternative Private Real Estate Investment Trust No. 186(*2) | 16,022 | 415 | 15,607 | 1,817 | 940 | _ | 940 |
| Hana Alternative Private Real Estate Investment Trust No. 187(*2) | 10,003 | 733 | 9,270 | 1,128 | 464 | _ | 464 |
| Hana Alternative Private Real Estate Investment Trust No. 182(*2) | 103,794 | 5,911 | 97,883 | 10 | (6,807) | 6,897 | 90 |
| Hana Alternative Private Real Estate Investment Trust No. 185(*2) | 386,775 | 273,673 | 113, 102 | 2,989 | (18,966) | 8,876 | (10,090) |
| Hana Alternative Private Real Estate Investment Trust No. 180(*2) | 68,522 | 135 | 68,387 | 64 | (112) | - | (112) |
| Hana Beyond Finance Fund (*2) | 88,908 | 756 | 88, 152 | 229 | (1,848) | - | (1,848) |
| Hana Alternative Investment Chuncheon Fuel Cell General Private Investment Trust No. 1 (professional) (*2) | 49,464 | 16 | 49,448 | 1,011 | (209) | - | (209) |
| Defense Technology Innovation Private Investment Trust (*2) | 3,002 | 5 | 2,997 | 2 | (3) | - | (3) |

- (*1) Consolidated financial information of the intermediate parent company.
- (*2) Newly incorporated for the year ended December 31, 2022.
- (*3) Excluded from subsidiary of the Company for the year ended December 31, 2022.

<December 31, 2021>

(Korean won in millions)

| Classification | Assets | Liabilities | Equity | Revenue | Netincome (loss) | Other comprehensive income (loss) | Comprehensive income (loss) |
|-----------------|-------------|-------------|------------|------------|---------------------|-----------------------------------|-----------------------------|
| KEBHanaBank(*1) | 430,193,576 | 401,437,105 | 28,756,471 | 30,175,283 | 2,575,746 | 140,697 | 2,716,443 |

| Classification | Assets | Liabilities | Equity | Revenue | Net income (loss) | Other comprehensive income (loss) | Comprehensive income (loss) |
|---|------------|-------------|-----------|-----------|----------------------|-----------------------------------|-----------------------------|
| Hana Securities (*1) | 37,614,683 | 32,323,651 | 5,291,032 | 8,059,329 | 505,993 | (26,038) | 479,955 |
| KEB Hana Card (*1) | 9,596,474 | 7,565,896 | 2,030,578 | 1,322,005 | 250,484 | 2,480 | 252,964 |
| Hana Capital (*1) | 13,856,805 | 12,030,439 | 1,826,366 | 1,017,815 | 273,726 | (13,358) | 260,368 |
| Hana Asset Trust | 511,369 | 88,866 | 422,503 | 163,732 | 92,739 | - | 92,739 |
| HanaTI(*1) | 482,015 | 376,564 | 105,451 | 261,276 | 374 | (2,028) | (1,654) |
| Hana Savings Bank | 2,477,165 | 2,116,578 | 360,587 | 130,573 | 26,548 | (332) | 26,216 |
| HanaLifeInsurance(*1) | 5,858,383 | 5,442,993 | 415,390 | 767,576 | 24,271 | (55,348) | (31,077) |
| HIS | 57,833 | 13,081 | 44,752 | 36,645 | 8,303 | 108 | 8,411 |
| Hana Alternative Asset Management Co., Ltd.(*1) | 219,454 | 23,870 | 195,584 | 81,533 | 30,951 | (49) | 30,902 |
| Hana Ventures, Ltd. | 109,850 | 4,365 | 105,485 | 11,845 | 5,458 | 79 | 5,537 |
| HanaF&I, Inc.(*1) | 1,557,988 | 1,274,391 | 283,597 | 97,846 | 25,384 | (489) | 24,895 |
| HanaInsuranceCo., Ltd. (*1) | 1,362,941 | 1,126,281 | 236,660 | 600,819 | 16,818 | (21,221) | (4,403) |
| HANAASSETMANAGEMENTASIA | 8,210 | 123 | 8,087 | - | (664) | 300 | (364) |
| SpecifiedMoneyTrust(HFG) | 380,261 | 114 | 380,147 | 1,868 | 1,147 | - | 1,147 |
| Hana Alternative BlackRock QIP Trust No. 73 | 52,717 | 1,859 | 50,858 | 7,907 | 3,336 | - | 3,336 |
| Hana Professional Investment Type Private Equity 90 (*1) | 20,265 | 1,743 | 18,522 | 3,830 | 2,165 | - | 2,165 |
| Hana Alternative UKGovernment Office Professional Investors' Private Real Estate Investment Feeder Trust No. 1 (*1) | 1,628 | 1,617 | 11 | 1 | 1,832 | 33 | 1,865 |
| Hana Alternative Infra Special Investment Private Trust No. 3-1 | 9,728 | 13 | 9,715 | 636 | 504 | - | 504 |
| Hana Alternative Infra Special Investment Private Trust No. 3-2 | 6,035 | 8 | 6,027 | 3,570 | 1,930 | 705 | 2,635 |
| Hana Alternative Infra Special Investment Private Trust No. 3-3 | 20,937 | 25 | 20,912 | 1,104 | 442 | - | 442 |
| Hana Alternative Infra Special Investment Private Trust No. 3-4 (*2) | 34,672 | 26 | 34,646 | 165 | (1,140) | 47 | (1,093) |
| Hana Alternative Special Investment Private Trust No. 100 | 11,862 | 159 | 11,703 | 947 | 726 | - | 726 |
| Hana Alternative Special Investment Private Trust No. 102 | 75,768 | 2,130 | 73,638 | 10,031 | 2,921 | - | 2,921 |
| Hana Alternative Special Investment Private Trust No. 108 | 9,627 | 590 | 9,037 | 2,002 | 391 | - | 391 |
| Hana Alternative Special Investment Private Trust No. 123-1 (USD) (*1) | 332,785 | 220,593 | 112,192 | 903 | (15,586) | 14,972 | (614) |
| Hana Alternative Houston Private Investment Trust No. 121 | 35,907 | 1,416 | 34,491 | 6,083 | 2,581 | - | 2,581 |
| Hana Alternative Special Asset Private Trust No. 123-2 | 41,800 | 1,924 | 39,876 | 11,377 | 2,892 | - | 2,892 |
| Alternative Special Asset Private Trust No. 126(*1) | 104,490 | 7,242 | 97,248 | 74 | (11,246) | 8,444 | (2,802) |
| Hana Alternative Special Investment Private Trust No. 116(*1) | 52,772 | 24 | 52,748 | 25,636 | 13,238 | - | 13,238 |
| Hana Alternative Investment Real Estate Private Trust No. 163-1 (H) (*2) | 35,770 | 3,163 | 32,607 | 7,641 | 1,417 | _ | 1,417 |
| Hana Alternative Investment Land Chip Real Estate Private Trust No. 68 (*3) | 178,309 | 136,269 | 42,040 | 124 | 3,730 | - | 3,730 |
| HanaPrivateRealEstateInvestmentTrust No. 165(*1)(*2) | 55,682 | 3,383 | 52,299 | 3,616 | (2,186) | - | (2,186) |
| Hana Alternative Special Investment Wando Geumil | 2,170 | 188 | 1,982 | 96 | 34 | - | 34 |

| Classification | Assets | Liabilities | Equity | Revenue | Net income (loss) | Other comprehensive income (loss) | Comprehensive income (loss) |
|---|--------|-------------|--------|---------|----------------------|-----------------------------------|-----------------------------|
| OffshoreWindPowerPrivateTrustNo. 1 (*2) | | | | | | | |
| Hana Ventures NewTechnology Investment Association No. 4 | 5,817 | - | 5,817 | - | (95) | - | (95) |
| Hana Ventures NewTechnology Investment Association No. 6 | 10,891 | - | 10,891 | 4,543 | 4,407 | - | 4,407 |
| Hana Ventures NewTechnology Investment Association No. 7 | 5,370 | - | 5,370 | 1 | (115) | - | (115) |
| Hana Special NewDeal National Representative Growth Private Trust (*2) | 2,007 | 35 | 1,972 | 7 | (28) | - | (28) |
| Hana-Capstone Al PlatformFund(*4) | - | - | - | 8 | (448) | - | (448) |
| Genesis Environment Energy No. 6 Private Equity Fund (*4) | - | - | - | - | (1,544) | - | (1,544) |
| Hana Alternative Private Real Estate Investment Trust No. 119 (*2) | 13,196 | 101 | 13,095 | 1 | (105) | _ | (105) |
| ana Alternative Private Real Estate Investment Trust No. 183-1 (*2) | 19,793 | 94 | 19,699 | 405 | (171) | - | (171) |
| Hana Alternative Frontier Private Investment Trust No. 1 (*2) | 34,864 | 2,599 | 32,265 | 802 | (85) | - | (85) |

- (*1) Consolidated financial information of the intermediate parent company.
- (*2) Hana Asset Management Asia was newly incorporated during the year ended December 31, 2021.
- (*3) Changed from subsidiary of Hana Life Insurance to subsidiary of HFG as of March 31, 2021.
- (*4) Excluded from the consolidation scope during the year ended December 31, 2021

Changes in scope of consolidation for the year ended December 31, 2022 are as follows:

| Name of subsidiaries | Rationale |
|---------------------------------|--|
| Includedinscopeofconsolidation: | |
| ErnestHyur2nd.,Co.,Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| DAGlobalLogis1st.,Co.,Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| SFDadaeNewDream., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| OneMegaWonchang1st.,Co.,Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| HanaParkway., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| NewDealIDC3rdCo., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Mt.Kai1st.,Co.,Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |

| Name of subsidiaries | Rationale |
|--|--|
| JHDouble 1st., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| OS Residence 1st., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Hana 1 Q OSC., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| EGIS British Core Infra Specialized Privately Placed Fund Trust No. 445 | Holds power as an actual beneficiary of a private equity fundand exposed to variable returns |
| Pinestreet US Infra Specalized Privately Placed Fund Trust No. 7 | Holds power as an actual beneficiary of a private equity fund and exposed to variable returns |
| IGIS Global. Specialized Private Placement Real Estate Investment Trust No. 436-1 | Holds power as an actual beneficiary of a private equity fund and exposed to variable returns |
| IGIS Global. Specialized Private Placement Real Estate Investment Trust No. 436–2 | Holds power as an actual beneficiary of a private equity fundand exposed to variable returns |
| KTB Global CRE Private Investment Trust No. 49 | Holds power as an actual beneficiary of a private equity fundand exposed to variable returns |
| Hyundai Infiniti Private Placement Real Estate Investment Trust No. 3 | Holds power as an actual beneficiary of a private equity fundand exposed to variable returns |
| J-On Prime., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| J-OnEco., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Hana Dongnae 1st., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Hana Dongnae 2nd., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| HanaJangpo 1st., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| The Conral GM23rd., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| The Conral GM22nd., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Hana Ulsan Yaeum 1 st., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Hana Moon 101st., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Synergy 1st., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| NewDeal IDC 4th Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Hana Haeundae Jungdong 1st., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Hana Haeundae Jungdong 2nd., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Blue Shining 1 st., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Hana Chookhyun 1st., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Hana Chookhyun 2nd., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| ExcelsiopSaka IMP., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| BlackMir2nd., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| | Holds power as an asset manager and exposed to variable returns based on credit |



| Name of subsidiaries | Rationale | | | |
|---|---|--|--|--|
| Hana Logis Point 1st., Co., Ltd. | facility or purchase commitments | | | |
| Sprott Chile Renewable Energy Privat Equity Trust II | Holds power as an actual beneficiary of a private equity fund, and exposed to variable returns | | | |
| Vestas Europe Logistics Private Real Estate Investment Trust No. 73B | Holds power as an actual beneficiary of a private equity fund, and exposed to variable returns | | | |
| Mastern US Private Real Estate Investment Trust No. 52 | Holds power as an actual beneficiary of a private equity fund, and exposed to variable returns | | | |
| Vestas Private Real Estate Investment Trust No.82 | Holds power as an actual beneficiary of a private equity fund, and exposed to variable returns | | | |
| Meritz Private Real Estate Investment Trust No. 30 | Holds power as an actual beneficiary of a private equity fund, and exposed to variable returns | | | |
| With GM7th., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments | | | |
| With GM9th., Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments | | | |
| Tongyeong Ellioju 1st Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments | | | |
| HanaJaehyun 1st Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments | | | |
| Planet Ayajin Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments | | | |
| Stade Blue 7th Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments | | | |
| Hmidan2ndCo., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments | | | |
| Shenzhen Hana No. 1 Investment Partnership (Limited Partnership) | Obtained majority of shares with voting rights | | | |
| HIC Global Limited | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments | | | |
| HFM21 Securitization Specialty Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments | | | |
| HF1stCorporatePrivateEquityFund | Holds power as an executive officer and exposed to variable returns | | | |
| HFB21 Securitization Specialty Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments | | | |
| HFI 22 Securitization Specialty Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase arrangements | | | |
| HFG22Securitization Specialty Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments | | | |
| HFF22SecuritizationSpecialtyCo.,Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase arrangements | | | |
| HFBG23 Securitization Specialty Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments | | | |
| HFS 23 Securitization Specialty Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase arrangements | | | |
| HFN23SecuritizationSpecialty Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments | | | |
| HFF24SecuritizationSpecialty Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase arrangements | | | |
| Hana Alternative Private Real Estate Investment Trust No. 181 | Holds power as an actual beneficiary of a private equity fund, and exposed to variable returns | | | |
| Hana Alternative Private Real Estate Investment Trust No. 186 | Holds power as an actual beneficiary of a private equity fund, and exposed to variable returns | | | |
| Hana Alternative Private Real Estate Investment Trust No. 187 | Holds power as an actual beneficiary of a private equity fund, and exposed to variable returns | | | |

| Name of subsidiaries | Rationale |
|--|---|
| Hana Alternative Investment PRC Logistics General Private Investment Trust No. 1 | Holds power as an actual beneficiary of a private equity fund, and exposed to variable returns |
| Hana Beyond Finance Fund | Holds power as an actual beneficiary of a private equity fund, and exposed to variable returns |
| Hana Alternative Private Real Estate Investment Trust No. 180 | Holds power as an actual beneficiary of a private equity fund, and exposed to variable returns |
| Hana Alternative Private Real Estate Investment Trust No. 185 | Holds power as an actual beneficiary of a private equity fund, and exposed to variable returns |
| Hana Alternative Investment Chuncheon Fuel Cell General Private Investment Trust No. 1 (professional) | Holds power as an actual beneficiary of a private equity fund, and exposed to variable returns |
| BYK3rdCo., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Mini Hana 1st, LLC | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Jinwoori 1Q1st, LLC | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Hana Double H1Q 4th Co.,Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| Hana Double H1Q 5th Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments. |
| H-ECHO 1st, LLC | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase arrangements |
| HANASTARLORD1st, LLC | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments. |
| CLEANWORLD 1st, LLC | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase arrangements |
| H-HANA1st, LLC | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments. |
| HANAANANTI 1st, LLC | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase arrangements |
| One Q B777F66872 Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments. |
| NAE CHONHANA 1st, LLC | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase arrangements |
| DRAGONHANA1st, LLC | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments. |
| HANABAEKSALOGISTICS 1st, LLC | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase arrangements |
| HANAS ONE Q1st, LLC | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments. |
| HOMEPLUS HANA CONNECT, LLC | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase arrangements |
| Antarctica 1st, Ltd | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments. |
| Enerbility Hana 1st, Ltd | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase arrangements |
| Hana Plant 1st, Ltd | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments. |
| Gs Hana 1st, Ltd | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase arrangements |
| Cha Cha Hana 1 st, Ltd | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments. |
| TA1st, Ltd | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase arrangements |
| | Holds power as an asset manager and exposed to variable returns based on credit |

| Name of subsidiaries | Rationale |
|--|---|
| Neostar 6th, Ltd | facility or purchase commitments. |
| Galaxia1Q1st, Ltd | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase arrangements |
| Hana Collaboration Pre-IPO Fund | Obtained majority of shares with voting rights |
| Hana Global REIT CO., Ltd. | Obtained majority of shares with voting rights |
| Hana Global No. 1 REIT CO., Ltd. | Obtained majority of shares with voting rights |
| Hana Alternative Private Real Estate Investment Trust No. 192 | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| FinnqCo., Ltd. | Obtained majority of shares with voting rights |
| Defense Technology Innovation Private Investment Trust | Holds power as an actual beneficiary of a private equity fund, and exposed to variable returns. |
| Hana Card 2022-1 Asset Securitization Specialty Co., Ltd. | Holds power as an asset manager and exposed to variable returns based on credit facility or purchase commitments |
| SHORELINESQUAREREITLLC | Obtained majority of shares with voting rights |
| BOSTONSEAPORTALYXSGREIT, LLC | Obtained majority of shares with voting rights |
| 70 Hudson REIT LLC | Obtained majority of shares with voting rights |
| 70 Hudson LLC-PropCo | Obtained majority of shares with voting rights |

| Name of subsidiaries | Rationale |
|--|--|
| Excluded in scope of consolidation: | |
| IGIS U.S. Specialized Private Placement Real Estate Investment Trust No. 417-1 | Loss of control due to disposal |
| YDL1stCo. Ltd. | Loss of control due to disposal (Termination of credit facility) |
| Hana Ocean 1st | Loss of control due to disposal (Termination of credit facility) |
| Hana Solar 1st Co., Ltd | Loss of control due to disposal (Termination of credit facility) |
| GS Solution 1st., Co., Ltd. | Loss of control due to disposal (Termination of credit facility) |
| Madrid First Co., Ltd. | Loss of control due to disposal (Termination of credit facility) |
| Hana Seattle Prime Co., Ltd. | Loss of control due to disposal (Termination of credit facility) |
| Hana Middle Mile 1st Co., Ltd. | Loss of control due to disposal (Termination of credit facility) |
| KBBonaccordPrivateFund(FOFS) | Loss of control due to disposal |
| Shinhan AIM Real Estate Fund No. 22-B | Loss of control due to disposal |
| Midas Global Qualified Investors Private Real Estate Investment Trust No. 10 | Loss of control due to disposal |
| Pinestreet US Infra Specialized Privately Placed Fund Trust No. 7 | Loss of control due to disposal |
| Hyundai Infiniti Private Placement Real Estate Investment Trust No. 3 | Loss of control due to disposal |
| Hana New Technology Fund No. 1 | Loss of control due to disposal |
| IGIS Global. Specialized Private Placement Real Estate Investment Trust No. 436-1 | Loss of control due to disposal |
| HANAMCONECo., Ltd. | Loss of control due to disposal (Termination of credit facility) |
| Anseong KL 1st., Co., Ltd. | Loss of control due to disposal (Termination of credit facility) |
| HanaPenta1st., Co., Ltd. | Loss of control due to disposal (Termination of credit facility) |
| MagicTown1st., Co., Ltd. | Loss of control due to disposal (Termination of credit facility) |
| Planet Seocho Co., Ltd. | Loss of control due to disposal (Termination of credit facility) |
| Hana HQ 1st., Co., Ltd. | Loss of control due to disposal (Termination of credit facility) |
| KB Spain Solar Energy Private Special Asset Fund | Loss of control due to disposal |
| EGIS British Core Infra Specialized Privately Placed Fund Trust No. 445 | Loss of control due to disposal |
| IGIS Global. Specialized Private Placement Real Estate | |

HANA FINANCIAL GROUP Annual Report 2022 - NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

| Name of subsidiaries | Rationale |
|---|--|
| Investment Trust No. 436-2 | Loss of control due to disposal |
| Sprott Chile Renewable Energy Privat Equity Trust II | Loss of control due to disposal |
| Venus 1 SPCCo., Ltd. | Loss of control due to disposal |
| HIT1SPCLLC | Loss of control due to disposal |
| Hana Trust Global REIT One CO., Ltd. | Loss of control due to liquidation |
| YKHo1st., Co., Ltd | Loss of control due to disposal (termination of credit facility) |
| YKHo2nd., Co., Ltd | Loss of control due to disposal (termination of credit facility) |
| Hana YJDL Co., Ltd. | Loss of control due to disposal (termination of credit facility) |
| Hana Sewoon 1st., Co., Ltd. | Loss of control due to disposal (termination of credit facility) |
| Hana Al 5th Co., Ltd. | Loss of control due to disposal (termination of credit facility) |
| Planet Advisor Co., Ltd. | Loss of control due to disposal (termination of credit facility) |
| YDJ2ndCo., Ltd. | Loss of control due to disposal (termination of credit facility) |
| Mt.Kai 1st., Co., Ltd. | Loss of control due to disposal (termination of credit facility) |
| OS Residence 1st., Co., Ltd. | Loss of control due to disposal (termination of credit facility) |
| Capstone EU Private Investment Trust No. 12 | Loss of control due to disposal |
| Titan 1 SPCLLC | Loss of control due to liquidation |
| VICTORYLIMITEDPARTNERSHIP | Loss of control due to liquidation |
| VICTORYInvestment Company Limited | Loss of control due to liquidation |
| VICTORYGP | Loss of control due to liquidation |
| SpecifiedMoneyTrust (HanaF&I) | Loss of control due to disposal |
| Hana Alternative Private Real Estate Investment Trust No. 157 | Loss of control due to liquidation |
| Hana Private Real Estate Investment Trust No. 177 | Loss of control due to decrease invoting rights |
| H&Hinvestment 2 | Loss of control due to liquidation |
| Hana Alternative Special Investment Private Trust No. 116 | Loss of control due to liquidation |
| Hana Alternative Investment Real Estate Private Trust No. 163-1 (H) | Loss of control due to liquidation |
| Hana Alternative Special Asset Private Trust No. 123-2 | Loss of control due to liquidation |
| Hana Alternative Private Real Estate Investment Trust No. 183-1 | Loss of control due to liquidation |
| Hana Alternative Houston Private Investment Trust No. 121 | Loss of control due to liquidation |
| BEST ONE Q1st | Loss of control due to disposal (termination of credit facility) |
| HILeading Solution PEFInvest Trust 143 (previously, DGB Leading Solution PEFInvest Trust 143) | Loss of control due to disposal |
| Netoneg1stL.L.C | Loss of control due to disposal (termination of credit facility) |
| DONGAMTOWER 1st Co., Ltd. | Loss of control due to disposal (termination of credit facility) |
| Hana Hin the Holdings 2nd L.L.C. | Loss of control due to disposal (termination of credit facility) |
| Hana Hin the Holdings 3rd L.L.C. | Loss of control due to disposal (termination of credit facility) |
| KSPARTNERSHIP 1st 2020, INC. | Loss of control due to disposal (termination of credit facility) |
| SpecifiedMoneyTrust(KEBHanaCard) | Loss of control due to changes in accounting policy |
| Hana Card 2019–1 Asset Securitization Specialty Co., Ltd. | Loss of control due to liquidation |
| Beijing Jianhao Hongji Real Estate | Loss of control due to disposal |
| Development Co., Ltd. PFV | |



1–3 Risk and the financial support to a consolidated structured entity

A structured entity is incorporated for asset-back securitization of NPL and beneficiary interest in investment funds of property. A consolidated entity has been involved by purchasing a subordinated bonds from a consolidated structured entity or offering buyout option of asset-backed commercial papers ("ABCP") or loans issued by a consolidated structured entity. It is exposed to a risk of not being able to recover the acquisition (investment) principal according to the performance.

Nature and reasons of the contractual arrangements for providing the financial support to a consolidated structured entity as of December 31, 2022 are as follows:

| Name of entity | Commitments to provide financial support | Intention to provide support |
|--|--|---|
| Trust accounts with guarantee of the repayment of principal and interest | The Group offers principal conservation commitment to trust accounts. The Group is required to conserve the deficit amount in case the trust account stands below the principal as a result of the operation. | Credit enhancement on financial management of trust |
| Ocean Betts The First Co., Ltd. | The Groupentered into purchase commitment of \(\psi \)50 billion ABCP fromOcean Betts The First Co., Ltd. | Credit facility |
| Hana Hin the Holdings 1st LLC | The Groupentered into purchase commitment of ₩150 billion ABCP from Hana Hin the Holdings 1st LLC | Credit facility |
| Hana Display the First Co., Ltd. | The Groupentered into purchase commitment of \(\psi \)200 billion ABCP from Hana Display the First Co., Ltd. | Credit facility |
| H-Plus 1st, L.L.C. | The Groupentered into purchase commitment of ₩100 billion ABCP from H-Plus 1st, L.L.C. | Credit facility |
| Hana CK1st Co.,Ltd. | The Groupentered into purchase commitment of \wxi>57.3 billion ABCP from Hana CK1st Co., Ltd. | Credit facility |
| Hana Hinthe Holdings 2nd L.L.C | The Groupentered into purchase commitment of ₩50 billion ABCP from Hana Hin the Holdings 2nd L.L.C | Credit facility |
| PIOTOWER1st, LLC | The Groupentered into purchase commitment of ₩60 billion ABCP from PIOTOWER1st, LLC | Credit facility |
| HEONEQ1st, LLC | The Groupentered into purchase commitment of \wxi>50 billion ABCP from HEONEQ1st, LLC | Credit facility |
| HCONEQ1st, LLC | The Groupentered into purchase commitment of \wxi>50 billion ABCP from HCONEQ1st, LLC | Credit facility |
| DPS 2nd, Co., Ltd | The Groupentered into purchase commitment of ₩45.7 billion ABCP from DPS 2nd, Co., Ltd | Credit facility |
| HHotel ONEQ 1st, LLC | The Groupentered into purchase commitment of ₩48 billion ABCP from H Hotel ONEQ 1st, LLC | Credit facility |
| Bbq1q1st. LLC | The Groupentered into purchase commitment of \(\psi \)20 billion ABCP from \(\mathbb{B}\)backgraph 1 at LLC | Credit facility |
| Skoffice 1q1st. LLC | The Groupentered into purchase commitment of ₩60 billion ABCP from Skoffice 1q1st, LLC | Credit facility |
| Cleanenergy 1q1st. LLC | The Groupentered into purchase commitment of ₩60 billion ABCP from Cleanenergy 1q1st, LLC | |
| | The Grouppartially purchased ABCP (purchase commitment of ₩50 billion) from | |

| Name of entity | Commitments to provide financial support | Intention to provide suppor |
|------------------------------|--|-----------------------------|
| HANADL First Co., Ltd | HANADL First Co., Ltd | Credit facility |
| HANATERMINUS First Co., Ltd | The Grouppartially purchased ABCP (purchase commitment of \wxi0 billion) from \mathbb{H}ANATERMINUS First Co., Ltd | Credit facility |
| THE HAMONEQ 1st. LLC | The Groupentered into purchase commitment of ₩40 billion ABCP from THE HAMONEQ 1 st. LLC | Credit facility |
| HANAI.G1st. LLC | The Groupentered into purchase commitment of ₩20 billion ABCP from HANAI.G1st. LLC | Credit facility |
| GRANDONEQ1st. LLC | The Groupentered into purchase commitment of ₩40 billion ABCP from GRANDONEQ 1st. LLC | Credit facility |
| THEMIRAEONEQ 1st. LLC | The Groupentered into purchase commitment of ₩50 billion ABCP from THE MIRAE ONEQ 1st. LLC | Credit facility |
| DONG DAEGUTERMINAL 2nd. LLC | The Groupentered into purchase commitment of ₩20 billion ABCP from DONG DAEGUTERMINAL 2nd, LLC | Credit facility |
| KENDALL NO.91st, LLC | The Groupentered into purchase commitment of ₩30.3 billion ABCP from KENDALL NO.91st. LLC | Credit facility |
| BYK3rdCo., Ltd. | The Groupentered into purchase commitment of ₩20 billion ABCP from BYK3rdCo., Ltd | Credit facility |
| Mini Hana 1st, LLC | The Groupentered into purchase commitment of ₩30 billion ABCP from Mini Hana 1 st, LLC. | Credit facility |
| Jinwoori 1Q1st, LLC | The Groupentered into purchase commitment of ₩30 billion ABCP from Jinwoori 1Q1st, LLC. | Credit facility |
| Hana Double H1Q4th Co.,Ltd. | The Groupentered into purchase commitment of ₩11.1 billion ABCP from Hana Double H1Q4th Co., Ltd. | Credit facility |
| Hana Double H1Q5th Co.,Ltd. | The Groupentered into purchase commitment of ₩11.1 billion ABCP from Hana Double H1Q5th Co., Ltd. | Credit facility |
| H-ECHO 1st, LLC | The Groupentered into purchase commitment of $\$80$ billion ABCP from H-ECHO 1st, LLC. | Credit facility |
| HANASTARLORD1st, LLC | The Groupentered into purchase commitment of ₩30 billion ABCP from HANASTARLORD1st, LLC. | Credit facility |
| CLEANWORLD 1st, LLC | The Groupentered into purchase commitment of ₩20 billion ABCP from CLEANWORLD 1st, LLC. | Credit facility |
| H-HANA1st, LLC | The Groupentered into purchase commitment of ₩90 billion ABCP from H-HANA1st, LLC. | Credit facility |
| HANAANANTI 1st, LLC | The Groupentered into purchase commitment of ₩50 billion ABCP from HANAANANTI 1st, LLC. | Credit facility |
| NAE CHONHANA 1st, LLC | The Groupentered into purchase commitment of ₩49.6 billion ABCP from NAECHONHANA 1st, LLC. | Credit facility |
| DRAGONHANA 1st, LLC | The Groupentered into purchase commitment of ₩30 billion ABCP from DRAGONHANA 1 st, LLC. | Credit facility |
| HANABAEKSALOGISTICS 1st, LLC | The Groupentered into purchase commitment of ₩34.6 billion ABCP from HANABAEKSALOGISTICS 1st, LLC | Credit facility |
| HANAS ONE Q1st, LLC | The Groupentered into purchase commitment of ₩30 billion ABCP from HANAS ONE Q1st, LLC. | Credit facility |
| HOMEPLUS HANACONNECT, LLC | The Groupentered into purchase commitment of ₩60 billion ABCP from HOME PLUS HANA CONNECT, LLC. | Credit facility |
| Antarctica 1st, Ltd | The Groupentered into purchase commitment of ₩60 billion ABCP from Antarctica 1 st, Ltd. | Credit facility |
| Enerbility Hana 1st, Ltd | The Groupentered into purchase commitment of ₩50 billion ABCP from Enerbility Hana 1st, Ltd. | Credit facility |
| Hana Plant 1st, Ltd | The Groupentered into purchase commitment of ₩100 billion ABCP from Hana Plant 1st, Ltd. | Credit facility |
| Gs Hana 1st, Ltd | The Groupentered into purchase commitment of ₩60 billion ABCP from Gs Hana 1st, Ltd. | Credit facility |
| | The Groupentered into purchase commitment of ₩30 billion ABCP from | |

| Name of entity | Commitments to provide financial support | Intention to provide support |
|--|---|------------------------------|
| ChaChaHana1st, Ltd | Cha Cha Hana 1st, Ltd. | Credit facility |
| TA1st, Ltd | The Groupentered into purchase commitment of ₩10 billion ABCP from TA1st, Ltd. | Credit facility |
| Neostar6th, Ltd | The Groupentered into purchase commitment of ₩40 billion ABCP from Neostar 6th, Ltd. | Credit facility |
| Galaxia 1 Q 1 st, Ltd | The Groupentered into purchase commitment of \w26.3 billion ABCP from Galaxia 1Q 1st, Ltd. | Credit facility |
| Hana Charlemont Exchange | The Group is obligated to acquire privately placed bonds up to ₩11.6 billion. | Credit facility |
| Hana AIC 1st Co., Ltd | The Group is obligated to acquire privately placed bonds up to ₩141.2 billion. | Credit facility |
| Peach Shine 2nd Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \text{\$\psi}37\$ billion. | Credit facility |
| Centaur First Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩29 billion. | Credit facility |
| Hana Runway Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩76 billion. | Credit facility |
| JLB Squaire Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩110.3 billion. | Credit facility |
| Hana-Sinjang1stCo.,Ltd | The Group is obligated to acquire privately placed bonds up to ₩4 billion. | Credit facility |
| Hana Datacenter 1st., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩0.1 billion. | Credit facility |
| Eco Clover Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \(\psi 92.1\) billion. | Credit facility |
| Hana-Ulsan Co., Ltd | The Groupis obligated to acquire privately placed bonds up to ₩2.7 billion. | Credit facility |
| Hana Port 1st., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \\46 billion. | Credit facility |
| Hana 1 Q Logis B Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩10 billion. | Credit facility |
| Hana Bukjincheon 2nd., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \text{\$\psi\$5 billion.} | Credit facility |
| Ernest Hyun 1st Co Ltd. | The Group is obligated to acquire privately placed bonds up to ₩83 billion. | Credit facility |
| Tree Axion 1st., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩6.5 billion. | Credit facility |
| Easy Tree 6th., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩20 billion. | Credit facility |
| JA8th., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩20 billion. | Credit facility |
| Joon Dragon Fairness 2nd., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \forall 30.4 billion. | Credit facility |
| Hana Asan Baebang 1st Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩13.1 billion. | Credit facility |
| Zeronine 1st Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩6.8 billion. | Credit facility |
| HanaJH2ndCo., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩12 billion. | Credit facility |
| The 1st GM23th Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩10 billion. | Credit facility |
| JEYComplex Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩83 billion. | Credit facility |
| JHYComplex Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩50 billion. | Credit facility |
| Hana Residence 2nd Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩42.8 billion. | Credit facility |
| NewDeal Beomeo 1 Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩20 billion. | Credit facility |
| E-Master 14th Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩9.6 billion. | Credit facility |
| Planet Seocho 2nd Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \text{\$\psi_30.5} billion. | Credit facility |
| E-Master 18th Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩20.5 billion. | Credit facility |
| Hana Boston Core 1st Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩79.6 billion. | Credit facility |
| Hana Boston Core 2nd Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩53.1 billion. | Credit facility |
| Geomdan Nine One 1st Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \text{\$\psi\$}4.9 billion. | Credit facility |
| NewDeal IDC1stndCo., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩20.5 billion. | Credit facility |
| NewDeal IDC2ndCo., Ltd. | The Group is obligated to acquire privately placed bonds up to \(\frac{\psi}{14.5}\) billion. | Credit facility |
| US Alix 1st Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩36.5 billion. | Credit facility |
| Hana Core-value Securitization 1st Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \text{\$\psi 82 billion.} | Credit facility |
| BlackWing 1st Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \(\psi 20\) billion. | Credit facility |
| Hana HD1st Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \(\psi \)30 billion. | Credit facility |
| Hana 4 Sky Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \(\psi 17\) billion. | Credit facility |
| Hana Dowon 1st Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \widetilde{W38} billion. | Credit facility |
| Portfolio 1st Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩15 billion. | Credit facility |
| Ernest Hyun 2nd., Co., Ltd. | | Credit facility |
| inest⊓yunzna., Co., Lla. | The Group is obligated to acquire privately placed bonds up to \text{\$\psi 4.1 billion}. | Credit facility |

| Name of entity | Commitments to provide financial support | Intention to provide suppor |
|--|---|-----------------------------|
| DAGlobal Logis 1st., Co., Ltd. | The Groupis obligated to acquire privately placed bonds up to ₩27.9 billion. | Credit facility |
| SFDadae New Dream., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩50 billion. | Credit facility |
| One Mega Wonchang 1 st., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩6.1 billion. | Credit facility |
| NewDealIDC3rdCo., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩19 billion. | Credit facility |
| JHDouble 1st., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩21 billion. | Credit facility |
| Hana 1 Q OSC., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩30 billion. | Credit facility |
| NewDealIDC4thCo., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩37 billion. | Credit facility |
| The Conral GM23rd., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩20 billion. | Credit facility |
| The Conral GM22nd., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \forall 30 billion. | Credit facility |
| BlackMir2nd., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩73.5 billion. | Credit facility |
| Blue Shining 1st., Co., Ltd. | The Groupis obligated to acquire privately placed bonds up to ₩20 billion. | Credit facility |
| Synergy 1st., Co., Ltd. | The Groupis obligated to acquire privately placed bonds up to ₩120 billion. | Credit facility |
| ExcelsiopSaka IMP., Co., Ltd. | The Groupis obligated to acquire privately placed bonds up to ₩34.6 billion. | Credit facility |
| J-On Prime., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩79.8 billion. | Credit facility |
| Hana Dongnae 2nd., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩6.1 billion. | Credit facility |
| Hana Dongnae 1st., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩16.2 billion. | Credit facility |
| Hana Logis Point 1st., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩14 billion. | Credit facility |
| Hana Moon 101st., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \times 11.5 billion. | Credit facility |
| Hana Ulsan Yaeum 1 st., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩11 billion. | Credit facility |
| Hana Jangpo 1st., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \\$\text{\$\psi}\$23 billion. | Credit facility |
| Hana Chookhyun 2nd., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \(\frac{\psi}{10}\) billion. | Credit facility |
| Hana Chookhyun 1st., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \(\psi\) 13.1 billion. | Credit facility |
| Hana Haeundae Jungdong 1st., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \(\psi 20.2 \) billion. | Credit facility |
| Stade Blue 7th Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \(\foware 40.8 \) billion. | |
| | | Credit facility |
| With GM9th., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \frac{\pmathbb{H}}{12} billion. | Credit facility |
| With GM7th., Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩20 billion. | Credit facility |
| Tongyeong Ellioju 1st Co., Ltd. | The Group is obligated to acquire privately placed bonds up to \(\psi 50.5 \) billion. | Credit facility |
| Planet Ayajin Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩15.6 billion. | Credit facility |
| HanaJaehyun1stCo., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩17 billion. | Credit facility |
| Hmidan 2nd Co., Ltd. | The Group is obligated to acquire privately placed bonds up to ₩30.5 billion. | Credit facility |
| AIP Environment Infrastructure Specalized Privately Placed Fund Trust | The Group committed to increase investment up to ₩11 billion on its asset. | Investment commitment |
| AIP Energy Transport Infrastructure Specialized Privately Placed Fund Trust | The Group committed to increase investment up to ₩10.9 billion on its asset. | Investment commitment |
| AIP Energy Infrastructure Specialized Privately Placed Fund | The Group committed to increase investment up to ₩3 billion on its asset. | Investment commitment |
| Sanchylly Renewable Energy Privat Equity Trust II | The Group committed to increase investment up to ₩10.6 billion on its asset. | Investment commitment |
| Mastern US Private Real Estate Investment Trust No. 52 | The Group committed to increase investment up to ₩38 billion on its asset. | Investment commitment |
| Vestas Europe Logistics Private Real Estate Investment Trust No. | The Group committed to increase investment up to \w27 billion on its asset. | Investment commitment |
| Meritz Private Real Estate Investment Trust No. 30 | The Group committed to increase investment up to ₩18.2 billion on its asset. | Investment commitment |
| Vestas Private Real Estate Investment Trust No.82 | The Group committed to increase investment up to ₩57.6 billion on its asset. | Investment commitment |
| Hana Card 2020–1 Asset Securitization Specialty Co., Ltd. | In related to asset securitization, the transferred beneficial interest is required to be above a certain rate. If asset shortage is constant, additional asset transfer shall be held. | Asset securitization |
| Hana Card 2021 – 1 Asset Securitization Specialty Co., Ltd. | In related to asset securitization, the transferred beneficial interest is required to be above a certain rate. If asset shortage is constant, additional asset transfer shall be held. | Asset securitization |
| Hana Card 2022-1 Asset Securitization | In related to asset securitization, the transferred beneficial interest is required to be abo | |

| Name of entity | Commitments to provide financial support | Intention to provide autopart |
|---|--|-------------------------------|
| , | Commitments to provide financial support | Intention to provide support |
| Specialty Co., Ltd. | ve a certain rate. If asset shortage is constant, additional asset transfer shall be held. | Asset securitization |
| Hana Alternative Infra Special Investment Private Trust | The Group committed to increase investment up to ₩16.6 billion on its asset of Hana Alternative InfraSpecial Investment Private Trust Nos.3–1, 3–2, 3–3 and 3–4. | Investment commitment |
| Hana Special New Deal National Representative Growth Private | The Group committed to increase investment up to ₩73 billion on its asset. | Investment commitment |
| Hana Alternative Special Investment Private Trust No. 108 | The Group committed to increase investment up to ₩3.3 billion on its asset. | Investment commitment |
| HANA Alternative Wando Geum-il Wind Power Infra Special Asset No. 1 | The Group committed to increase investment up to ₩0.7 billion on its asset. | Investment commitment |
| HanaTech Value-Up Investment Fund | The Group committed to increase investment up to ₩15.3 billion on its asset. | Investment commitment |
| Hana Alternative Private Real Estate Investment Trust No. 119 | The Group committed to increase investment up to ₩35 billion on its asset. | Investment commitment |
| Hana Alternative Frontier Private Investment Trust No. 1 | The Group committed to increase investment up to ₩2.5 billion on its asset. | Investment commitment |
| Hana Collaboration Pre-IPO Fund | The Group committed to increase investment up to ₩8.8 billion on its asset. | Investment commitment |
| HF1stCorporatePrivateEquityFund | The Group committed to increase investment up to ₩16.7 billion on its asset. | Investment commitment |
| Hana Beyond Finance Fund | The Group committed to increase investment up to ₩210 billion on its asset. | Investment commitment |
| Hana Alternative Private Real Estate Investment Trust No. 180 | The Group committed to increase investment up to ₩215 billion on its asset | Investment commitment |
| Defense Technology Innovation Private Investment Trust | The Group committed to increase investment up to ₩587 billion on its asset. | Investment commitment |

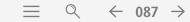
1–4 Non–controlling interest of subsidiaries

1–4–1 Major non-controlling interests' share of the equity of the subsidiaries as of December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|-----------------------------------|-------------------|-------------------|
| Hana Bank (*1) | 533,475 | 533,475 |
| KEB Hana Card | - | 305,825 |
| Hana Capital (*1) | 149,578 | 149,578 |
| Hana F&I, Inc. | 599 | 540 |
| PT Bank KEB Hana | 267,149 | 262,399 |
| Hana Bancorp, inc. | 4,071 | 4,089 |
| GLN International Co., Ltd. | 8,179 | - |
| Hana Equity Investment Management | | |
| (Shenzhen) Co., Ltd | 23,726 | 18,153 |
| Others (*2) | 5,659 | 6,646 |
| Total | 992,436 | 1,280,705 |

^(*1) The carrying amount of hybrid bonds issued by the subsidiary.

^(*2) The carrying amounts of non-controlling interest of Dduksim Co., Ltd. and Keumho Trading Co., Ltd.



1–4–2 Major non–controlling interest share of profit or loss of the subsidiaries for the years ended December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|---|---------|--------|
| Hana Bank(*1) | 22,532 | 7,027 |
| KEB Hana Card | 20,076 | 37,573 |
| Hana Capital (*1) | 5,625 | 5,625 |
| HanaF&I, Inc. (*1) | _ | 503 |
| HanaF&I, Inc. | 58 | 47 |
| PTBankKEBHana | 15,980 | 5,430 |
| Hana Bancorp, inc. | (127) | (44) |
| Hana Equity Investment Management (Shenzhen) Co., Ltd | 5,660 | _ |
| Others (*2) | (1,001) | (647) |
| Total | 68,803 | 55,514 |

- (*1) The carrying amount of hybrid bonds issued by the subsidiary
- (*2) The carrying amounts of non-controlling interest of Dduksim Co., Ltd., Sejoong Co., Ltd. and Keumho Trading Co., Ltd.

2. UNCONSOLIDATED STRUCTURED ENTITIES

2–1 Nature of the Group's interests in unconsolidated structured entities

Details of the nature of the Group's interests in unconsolidated structured entities as of December 31, 2022 and 2021, are as follows

(Korean won in millions):

| | | | Total assets | |
|---|---|---------------------------------|---------------------|---------------------|
| Classification | Purpose | Financingarrangement | December31, 2022 | December31, 2021 |
| Asset securitization | Financing through asset liquidation and | Issuing asset backed | | |
| special-purpose company ("SPC") | securitization | loan ("ABL")/ABCP andothers | 8,061,914 | 7,211,374 |
| Real estate finance | Operation for real estate (including SOC) development | Investment and borrowing | 136,331,948 | 35,521,837 |
| Shipping finance and acquisition fiancing | Financing to purchase ships, NPL and ownership | Investment and borrowing | 54,032,565 | 25,967,276 |
| Investment fund | Managing investment fundand trust | Issuingbeneficiary certificates | 242,591,368 | 277,704,873 |

2–2 Risks from its interests in unconsolidated structured entities (Korean won in millions):

<December 31, 2022>

(Korean won in millions)

| Classification | Asset securitization SPC | Real estate finance | Shipping finance and acquisition fiancing | Investment fund |
|-----------------------------|-----------------------------|---------------------|---|-----------------|
| Assets: | | | | |
| Loans receivable (A) | 899,544 | 4,644,713 | 1,771,780 | 1,163,791 |
| Securities (B) | 1 | 90,421 | 29,007 | 17,516,734 |
| Derivatives (C) | 8,778 | 6,104 | 19,536 | 379 |
| Others (D) | 1,430 | 16,301 | 8,883 | 157,142 |
| Liabilities: | | | | |
| Derivatives | 41,255 | 2,347 | 6,460 | - |
| Provision | 206 | 2,872 | 490 | 96 |
| Others | 17 | 61 | 45 | 2,970 |
| Netasset | 868,275 | 4,752,259 | 1,822,211 | 18,834,980 |
| Maximum exposure to loss | | | | |
| Financial assets (A+B+C+D) | 909,753 | 4,757,539 | 1,829,206 | 18,838,046 |
| Credit and other commitment | 295,062 | 1,043,612 | 354,198 | 2,598,034 |

<December 31, 2022>

(Korean won in millions)

| Classification | Asset securitization SPC | Real estate finance | Shippingfinance and acquisition fiancing | Investment fund |
|-----------------------------|-----------------------------|---------------------|--|-----------------|
| Assets: | | | | |
| Loans receivable (A) | 416,759 | 2,395,327 | 1,276,791 | 1,044,937 |
| Securities (B) | 1 | 55,260 | 26,292 | 13,991,289 |
| Derivatives (C) | 4,391 | 3,782 | 11,868 | _ |
| Others (D) | 1,253 | 6,988 | 4,694 | 70,232 |
| Liabilities: | | | | |
| Derivatives | 6,574 | 170 | 1,200 | _ |
| Provision | 2,198 | 3,291 | 979 | 252 |
| Others | 24 | 124 | 55 | _ |
| Netasset | 413,608 | 2,457,772 | 1,317,411 | 15,106,206 |
| Maximumexposure to loss | | | | |
| Financial assets (A+B+C+D) | 422,404 | 2,461,357 | 1,319,645 | 15,106,458 |
| Credit and other commitment | 908,695 | 1,129,319 | 462,185 | 1,847,264 |



3. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND BASIS OF PREPARATION

3-1 Basis of preparation

The Group prepares statutory consolidated financial statements in the Korean in accordance with Korean International Financial Reporting Standard ("K-IFRS") based on the Act on External Audit of Stock Companies

The accompanying consolidated financial statements have been translated into English. In the event of any differences in interpreting the consolidated financial statements or the independent auditors' review report thereon, the Korean version, which is used for regulatory reporting purposes, shall prevail.

3-2 Principles of consolidation

The significant accounting methods of consolidation that the Group adopts in preparing the consolidated financial statements are as follows.

3-2-1 Subsidiaries

Subsidiaries are the companies controlled by the Group, and the Group has rights to determine the financial and operational policies of the subsidiaries. Generally, it has at least 50% voting rights, and special-purpose vehicles are included. When the Group evaluates whether a company falls under a subsidiary, it considers the existence of an exercisable or convertible potential voting right and its effect. When the Group controls a subsidiary, the subsidiary is subject to consolidation; when the Group loses the control, it is eliminated from the consolidation.

3-2-2 Structured entity

A structured entity is an entity that has been designed so that voting or similar rights are not a dominant factor in deciding who controls the entity. When assessing whether the Group has power over a structured entity, which the Group holds an interest in, the following factors should be considered: the purpose and form of the structured entity; substantive ability to direct the relevant activities of the structured entity; relationship and its character with the structured entity and the size of exposure to earnings volatility of the structured entity.

3-2-3 Offsetting investment account against equity account

The investment accounts of the Group and the corresponding equity accounts of the subsidiaries were offset and eliminated as of the date of acquiring control.

3-2-4 Difference between net assets of an investee and acquisition costs

When offsetting the investment of the Parent Company and the equity of a subsidiary, the Group applies an acquisition method in accounting treatment. When applying the acquisition method, if the purchase price to acquire shares of the subsidiary's assets and liabilities at fair value exceeds the investment as of the date of acquiring control, the excess is recognized as goodwill and recorded as an intangible asset, and the Group tests goodwill for impairment annually at the end of reporting period.

If the parent acquires additional shares of the subsidiary after acquiring the control of the subsidiary, the investment of the Parent Company and the equity of the subsidiary are offset and eliminated as of the initial acquisition date; at this time, if the investment and the corresponding equity are not equal, the difference is recorded as consolidated capital surplus (or consolidated capital adjustments).

3-2-5 Elimination of related-party transactions and unrealized gains or losses

The Group offset and eliminated intercompany accounts receivable-payable, intercompany revenue-expenses, and interest incomes or expenses arising from intercompany loans by applying an interest rate for the current term.

3-2-6 Application of equity method

According to the sources of changes in net assets of an investee under equity method, the Group differently records the changes in accounting treatments. If the net assets of an investee are changed due to a net profit or loss for the current term, the change is recorded as an investment income or loss under equity method; if the net assets are changed due to an increase or decrease in retained earnings carried over from the previous term, the change is recorded as a positive or negative change in retained earnings under equity method; if the net assets are changed due to an increase or decrease in equity other than the net profit or loss for the current term or the change in retained earnings carried over from the previous term, the change is recorded as a positive or negative change in equity under equity method.

3–2–7 Special reserve of trust account

In the trusts with stipulations of preserving principals and interests, which are consolidated, special reserves accumulated in accordance with the terms and conditions of the trusts are adjusted in the consolidated retained earnings in accordance with the detailed enforcement regulations on banking supervision.

3–2–8 Non–controlling interests

The Group recognizes equity in a subsidiary not attributable to a parent as non- controlling interests. The Group also attributes total comprehensive income to the non-controlling interests even if this results in the non-controlling interests having a deficit balance. The Group presents the deficit balance as a negative number in equity.

3-2-9 Business combinations

3-2-9-1 Business combinations

Acquisition method is applied to business combinations except a business combination between entities or business under the control of the same ultimate parent company. The Group recognizes identifiable assets acquired and liabilities taken over at fair value on the acquisition date, except in the following cases.

- Lease contracts: classified by the terms and conditions of contracts on the date of contract
- Contingent liabilities: recognized as the liabilities that can be reliably measured as current obligations
- Deferred tax assets and liabilities: recognized and measured in accordance with K-IFRS 1012 Income taxes.
- Employee benefits: recognized and measured in accordance with K-IFRS 1019 Employee benefits

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- Compensable assets: recognized and measured in accordance with standards applicable to compensable items
- Reacquired rights: measured in accordance with special regulations
- Stock options: stock option-related debt or equity securities are measured in accordance with K-IFRS 1102 Share-based payment
- Assets held-for-sale: measured at net fair value in accordance with K-IFRS 1105 Non-current assets held-for-sale and discontinued operations

In business combination, consideration for transfer is measured at fair value, which is a sum of the fair values of assets transferred by the Group, liabilities that the Group bears for the previous owner of a company being acquired and equity instruments issued by the Group on the acquisition date. However, the stock options included in the consideration for transfer, which the acquirer grants to exchange for the compensations that are held by the employees of the acquiree, are not measured at fair value but evaluated in the way described above.

The acquisition–related costs are costs the acquirer has incurred to achieve effects of business combination. Those costs include brokerage fees, in other words, advisory, legal, accounting, valuation and other professional or consulting fees; general administrative costs, including costs of maintaining an internal acquisitions department; and costs to register and issue debt securities and equity securities. Except the costs of issuing debt and equity securities under K–IFRS 1032 and K–IFRS 1109, the acquirer recognizes acquisition–related costs as expenses in the periods in which the costs are incurred and the services are received.

3-2-9-2 Goodwill or gain on bargain purchase

The Group recognizes goodwill as of the acquisition date measured as the excess of (a) the aggregate of (i) the consideration transferred measured that which generally requires acquisition—date fair value and (ii) the amount of any non–controlling interest in the acquire over (b) the net of the acquisition—date amounts of the identifiable assets acquired and the liabilities assumed in accordance with K–IFRS 1103 Business combinations. If (b) exceeds (a), the Group reassess whether it hascorrectly identified all of the assets acquired and all of the liabilities assumed. After reassessments, the Group recognizes the resulting gain in profit or loss (a gain on bargain purchase) on the acquisition date.

Additional acquisition of non-controlling interest is taken into account as transactions between the shareholders and the resulting goodwill, etc. is not recognized.

3-3 Foreign exchange

3–3–1 Functional currency

When the Group prepares the consolidated financial statements, it measures and recognizes all transactions according to the functional currency. The functional currency is the currency of the primary economic environment in which the entity operates and entities with different functional currencies measured and recognized in its own functional currencies.

3-3-2 Translation of foreign currency transactions and balances at the end of the reporting period

Transactions in foreign currencies are initially recorded at the functional currency rate of exchange ruling at the date of the transaction. Monetary assets and liabilities denominated in foreign currencies are translated at the exchange rate at the reporting date and the exchange difference is recognized as profit or loss. Non-monetary items measured at fair value in a foreign currency are translated at the exchange rates at the end of reporting date. When a gain or loss on a non-monetary item is recognized in other comprehensive income ("OCI"), any exchange component of that gain or loss is recognized in OCI. Conversely, when a gain or loss on a non-monetary item is recognized in profit or loss, any exchange component of that gain or loss is recognized in profit or loss. Non-monetary items that are measured in terms of historical cost in a foreign currency are translated using the exchange rates as of the dates of the initial transactions.

The Group may have a monetary item that is receivable from or payable to a foreign operation. An item for which settlement is neither planned nor likely to occur in the foreseeable future is, in substance, a part of the entity's net investment in that foreign operation. Exchange differences arising on a monetary item that forms part of a reporting entity's net investment in a foreign operation are recognized initially in OCI and reclassified from equity to profit or loss on disposal of the net investment

3-3-3 Translation to the presentation currency

The Group translates the results and financial position of overseas branches and subsidiaries recorded in its own functional currencies into the presentation currency of the Group, Korean won ("KRW"). The Group translates (i) assets and liabilities for each statement of financial position at the closing rate at the date of that statement of financial position and (ii) income and expenses for each statement presenting profit or loss and OCI at exchange rates at the dates of the transactions or an average rate of the period. The Group recognizes all resulting exchange differences as OCI.

3–4 Cash and cash equivalents

Cash and cash equivalent are comprised of cash at banks and on hand and short- term demand deposits. The purpose of cash and cash equivalents is to make short-term investments and to meet short-term cash demands. Cash equivalents are short-term, highly liquid investments that are readily convertible to known amounts of cash and which are subject to an insignificant risk of changes in value

The restrictions on the Group's use of a demand deposit arising from a contract with a third party do not result in the deposit no longer being cash, unless those restrictions change the nature of the deposit in a way that it would no longer meet the definition of cash. The restrictions on the use of cash and due from banks arising from contracts are disclosed in Note 11–2.

3-5 Classification and measurement of financial assets

The classification of financial assets at initial recognition depends on the financial asset's contractual cash flow characteristics and the Group's business model for managing them. Financial assets are classified, at initial recognition, as FVTPL, FVOCI and subsequently measured at amortized cost, and financial liabilities are classified as FVTPL and subsequently measured at amortized cost.

Purchase or sale of financial assets is recognized at the date of settlement. However, purchases or sales of financial assets that require delivery of assets within a time frame established by regulation or convention in the market place (regular-way trades) are recognized on the trade date, i.e., the date that the Group commits to purchase or sell the asset.

The Group initially measures a financial asset and a financial liability at its fair value, plus (minus), in the case of a financial asset (financial liability) not at FVTPL, transaction costs. Fair value is defined as the amount by which an asset can be exchanged or a liability settled in a transaction between an independent party with a reasonable judgment and willingness to trade. The fair value of a financial instrument at initial recognition is generally the transaction price (the fair value provided or received).

3-5-1 Financial assets at FVTPL

Financial assets at FVTPL include financial assets held for trading, financial assets designated upon initial recognition at FVTPL and financial assets not classified as FVOCI or subsequently measured at amortized cost.

In addition, if the designation of a financial asset eliminates or significantly reduces the recognition and measurement inconsistencies that may arise from the measurement of assets or liabilities on a different basis or recognition of gains or losses, a financial asset can be designated as FVTPL.

Financial assets at FVTPL are measured at fair value and the gains or losses arising from changes in fair value are recognized in profit or loss. Dividends and interest income from financial assets are also recognized in profit or loss.

3-5-2 Financial assets at FVOCI

The Group measures debt instruments at FVOCI if both of the following conditions are met:

- a. The financial asset is held within a business model with the objective of both holding to collect contractual cash flows and selling
- b. The contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding

The Group can elect to classify irrevocably its equity investments as equity instruments designated at FVOCI when they are held strategically not for short- term trading. Financial assets at FVOCI are measured at fair value after initial recognition. For debt instruments at FVOCI, interest income, foreign exchange revaluation and impairment losses or reversals are recognized in the consolidated statement of profit or loss and other comprehensive income and computed in the same manner as for financial assets measured at amortized cost. The remaining fair value changes are recognized in OCI.

Upon derecognition, the cumulative fair value change recognized in OCI is recycled to profit or loss. However, the cumulative fair value change from equity instruments designated at FVOCI is never recycled to profit or loss when derecognized.

The fair value of financial assets at FVOCI is measured in the foreign currency and translated at the exchange rate at the end of the reporting period. The part of changes in fair value arising from changes in the amortized cost is recognized in profit or loss and other changes are recognized in equity.

3-5-3 Financial assets at amortized cost

The Group measures financial assets at amortized cost if both of the following conditions are met:

- a. The financial asset is held within a business model with the objective to hold financial assets in order to collect contractual cash flows
- b. The contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding

Financial assets at amortized cost are subsequently measured using the effective interest rate ("EIR") method and are subject to impairment. Interest income is recognized using the EIR method.

The Group defers loan origination fees / loan origination costs ("LOF/LOCs") associated with originating loans and LOCs that have future economic benefits. Loan balances are reported net of these LOF/LOCs. The deferred LOF/LOCs are amortized based on the EIR method with the amortization recognized as adjustments to interest income.

3-6 Derivative financial instruments and hedge accounting

The Group measures derivative financial instruments at fair value at initial recognition The Group classifies derivative financial instruments as derivative financial instruments held for trading purpose or hedging instruments. After initial recognition, the Group measures derivative financial instruments at fair value and gains or loss arising from changes in the fair value as profit or loss, except when the derivative financial instruments are previously a designated and effective hedging instrument in a cash flow hedge or net investment hedge no longer qualifies, the Group recognizes the portion of the gain or loss on the hedging instrument that is determined to be an effective hedge as OCI.

The Group applies fair value hedge accounting for a hedge of the exposure to changes in fair value of a recognized asset or liability or an unrecognized firm commitment, or an identified portion of such an asset, liability or firm commitment, that is attributable to a particular risk and could affect profit or loss.

The Group applies cash flow hedge for a hedge of the exposure to variability in cash flows that is attributable to a particular risk associated with a recognized asset or liability (such as all or some future interest payments on variable–rate debt) or a highly probable forecast transaction.

The Group documents the hedging relationship, Group's risk management objective and strategy for undertaking the hedge, the risk being hedged and how to assess the hedging instrument's effectiveness for applying hedge accounting. The effectiveness of the hedge is the hedging instrument's effectiveness in offsetting the exposure to changes in the hedged item's fair value or cash flows attributable to the hedged risk. The Group assesses the hedge on an ongoing basis and determined actually to have been highly

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effective throughout the financial reporting periods for which the hedge was designated and documents the result of assessment.

3-6-1 Fair value hedges

For fair value hedge accounting, the Group recognizes a gain or a loss on valuation of the hedging instrument and the hedged item as profit or loss for offsetting the changes in the fair value of the hedging instrument and the hedged item. If the Group elect to classify irrevocably the hedged equity instruments designated at fair value through OCI, the Group recognizes a gain or a loss on valuation of the hedging instrument and the hedged item as other comprehensive income or loss

The Group discontinues prospectively the hedge accounting if the hedge no longer meets the criteria for hedge accounting. Any adjustment arising from the change in the fair value of the hedged financial instrument for which the EIR method is used is amortized to profit or loss fully by maturity of the hedged financial instrument.

3-6-2 Cash flow hedges

For cash flow hedge accounting, the Group recognizes the effective portion of the gain or loss on the hedging instrument directly as OCI for offsetting the exposure to changes in cash flows of the hedging instrument and the hedged item attributable to the hedged risk. The Group reclassified from equity to profit or loss the associated gain or loss that was recognized in OCI in the same period during which the hedged forecast cash flows affect profit or loss. The Group discontinues prospectively the cash flow hedge accounting if the hedge no longer meets the criteria for hedge accounting.

3-6-3 Hedges of a net investment

Hedges of a net investment in a foreign operation, including a hedge of a monetary item that is accounted for as part of the net investment, are accounted for in a way gains or losses on the hedging instrument relating to the effective portion of the hedge are recognized as OCI, while any gains or losses relating to the ineffective portion are recognized in the consolidated statement of profit or loss and other comprehensive income. On disposal of the foreign operation, the cumulative value of any such gains or losses recorded in equity is transferred to the consolidated statement of comprehensive income in accordance with K-IFRS 1021 The Effects of Changes in Foreign Exchange Rates.

3-6-4 Embedded derivatives

An embedded derivative is a component of a hybrid (combined) instrument that also includes a non-derivative host contract with the effect that some of the cash flows of the combined instrument vary in a way similar to a stand-alone derivative. The Group separates an embedded derivative from the host contract and it is accounted for as a derivative only if the requirements of separation are met.

3-6-5 'Day 1' profit or loss

In case of derivatives in Level 3, whose fair value is determined using data that is not observable from markets, the difference between the transaction price and fair value at initial recognition (a 'Day 1' profit or loss) is deferred and amortized over the life of the associated instrument using the straight-line method and

the amortization is recognized in the consolidated statement of comprehensive income.

3-6-6 Credit risk valuation adjustment

When measuring derivatives at fair value, credit risk valuation adjustment is calculated to reflect the effectiveness of the adjustment for counter parties.

3–7 Investments in associates and joint ventures

Investments in entities over which the Group has joint control or significant influence (investments in associates and joint ventures) are accounted for using the equity method. Under the equity method, on initial recognition, the Group recognizes investments in associates and joint ventures cost. Subsequently, the Group adjusts the carrying amount of the investments in associates and joint ventures to recognize the Group's share of the profit or loss of the investee as profit or loss in the consolidated statement of comprehensive income. The Group recognizes the Group's share of changes in equity (except for profit or loss of the investee) directly in the related equity account to the consolidated statement of financial position.

If the Group's share of losses of the investee equals or exceeds its interest in the associates and joint ventures, it suspends recognizing its share of further losses. However, if the Group has other long-term interests in the investee, it continues recognizing its share of further losses to the extent of the carrying amount of such long-term interests. Such items include preference shares and long-term receivables or loans. The Group resumes the application of the equity method if the Group's share of income or change in equity of an investee exceeds the Group's share of losses accumulated during the period of suspension of the equity method.

On acquisition of the investment, the excess of the cost of the investment over the Group's share of the net fair value of the investee's identifiable assets and liabilities is accounted for as goodwill. The Group does not amortize goodwill relating to an associate or a joint venture and tests the investment for impairment if there is an indication that the investment is impaired. Further, the Group's share of any difference between the net fair value of the investee's identifiable assets and liabilities and the net book value of such assets and liabilities is amortized based on the investee's accounting treatments on the related assets and liabilities and charged or credited to the valuation gain or loss on the equity method investments in the consolidated statement of comprehensive income.

The Group's share in the investee's unrealized profits and losses resulting from transactions between the Group and its investee is eliminated to the extent of the interest in the investee.

3–8 Impairment of financial assets

The Group evaluates expected credit losses ("ECLs") of financial assets at amortized cost and FVOCI, except financial assets at FVTPL at the end of each reporting period, and an allowance for ECLs is recognized.

The ECL is the weighted-average amount of possible outcomes within a certain range, reflecting the time value of money; estimates on the past, current and future situations; and information accessible without excessive cost of effort.

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The ECL can be measured in three followings ways:

- General approach: when financial assets do not fall into below two categories and are off-consolidated statement of financial position undrawn commitments.
- Simplified approach: when financial assets are trade receivables, contract assets or lease receivables.
- Credit-impaired approach: when financial assets are credit impaired at initial recognition.

The general approach is applied differently depending on the significance of the increase of the credit risk. If, at the reporting date, the credit risk on a financial instrument has not increased significantly since initial recognition, an entity shall measure the loss allowance for that financial instrument at an amount equal to 12–month ECLs. If the credit risk on that financial instrument has increased significantly since initial recognition, an entity shall measure the loss allowance for a financial instrument at an amount equal to the lifetime ECLs at each reporting date.

The loss allowance is measured at an amount equal to lifetime ECLs for the simplified approach, and an entity shall only recognize the cumulative changes in lifetime ECLs since initial recognition as a loss allowance for purchased or originated credit–impaired financial assets at each reporting date for the credit–impaired approach.

The following non-exhaustive list of information may be relevant in assessing changes in credit risk:

- Significant changes in internal price indicators of credit risk as a result of a change in credit risk since inception
- Other changes in the rates or terms of an existing financial instrument that would be significantly different
- An actual or expected significant change in the financial instrument's external credit rating
- An actual or expected internal credit rating downgrade for the borrower or decrease in behavioral scoring used to assess credit risk internally
- An actual or expected significant change in the operating results of the borrower
- Past-due information

1) Forward-looking information

The Group measures the significance of the increase of the credit risk and the ECL using forward-looking information.

The Group assumes that the risk component is correlated with changes in market conditions, and calculates the ECL using the forward-looking information by modelling macroeconomic variables and risk components.

The forward–looking information used to measure the ECL is derived from 'stress–case' or 'worst–case' scenarios.

2) Measurement of ECL for financial assets measured at amortized cost ECL for financial assets measured at amortized cost is measured as the difference between the present value of the cash flows expected to be received and the cash flow expected to paid. For this purpose, the Group calculates expected cash flows for individually significant financial assets (individual valuation allowance).

Financial assets insignificant in value individually are measured on a collective basis with financial assets with similar credit risks (collective loss allowance).

1) Loss allowance on an individual assessment basis

Loss allowance on an individual assessment basis is based on the best estimates of management in regard to the present value of cash flows expected to be recovered from receivables. In estimating the cash flows, the Group uses all available information including the financial conditions such as the operating cash flows of counterparties and the net realizable value of collateral provided.

2) Loss allowance on a collective assessment basis

Loss allowance on a collective assessment basis uses the estimation model that accounts for the forward-looking information based on the past loss rate to measure the ECL. The model considers the probability of default ("PD") and the loss given default ("LGD") reflecting the type of instruments and borrowers' credit rating, portfolio size and collection period. Also, certain assumptions are applied to model the ECL measurement and to determine input variables based on past experiences and forward-looking information. Methodologies and assumptions for this model are regularly reviewed to minimize the difference between the loss allowance and the actual loss.

The ECL for financial assets measured at amortized cost is recognized as the loss allowance, and when the financial asset is determined to be irrecoverable, the carrying amount and loss allowance are decreased. If financial assets previously written off are recovered, the loss allowance is increased and the difference is recognized in the current profit or loss.

3) ECL measurement for financial assets measured at FVOCI

The measurement method is the same as the one for financial assets measured at amortized cost, but the change in the loss allowance is recognized as OCI. The loss allowance for financial assets measured at FVOCI is reclassified from OCI to current profit or loss when the assets are disposed of or repaid.

3–9 Derecognition of financial assets

A financial asset (or, where applicable, a part of a financial asset or part of a group of similar financial assets) is derecognized when (i) the rights to receive cash flows from the asset have expired or (ii) the Group has transferred substantially all the risks and rewards of the asset. If the Group has neither transferred nor retained substantially all the risks and rewards of the asset, but has transferred control of the asset, the Group recognizes the asset and the associated liability to the extent of the Group's continuing involvement in the asset. If the Group has retained substantially all the risks and rewards of ownership of the transferred asset, the Group continues to recognize the transferred asset and recognizes a collateralized borrowing for the consideration received.

3–10 Classification and measurement of financial liabilities

Financial liabilities are classified, at initial recognition, as financial liabilities at FVTPL or borrowings. All financial liabilities are recognized initially at fair value and, except for financial liabilities at FVTPL, net of directly attributable transaction costs.

3-10-1 Financial liabilities at FVTPL

Financial liabilities at FVTPL include financial liabilities held for trading and financial liabilities designated upon initial recognition as of FVTPL. Financial liabilities are classified as held for trading if they are incurred for the purpose of repurchasing in the near term. This category also includes derivative financial instruments entered into by the Group that are not designated as hedging instruments in hedge relationships as defined by K-IFRS 1109. Separated embedded derivatives are also classified as held for trading, unless they are designated as effective hedging instruments. Financial liabilities at FVTPL are subsequently measured at fair value and the related gain and income expense are recognized in the consolidated statement of profit or loss and other comprehensive income.

The Group performs securities lending and borrowing classified to financial liabilities at FVTPL. When the Group borrows securities from Korea Securities Depository, securities borrowed are managed as memorandum value, and when selling them, they are recorded as securities sold. At closing, the difference in the price securities are sold and the market price prevailing on the closing date is taken into account as valuation gain or loss on securities sold, and at the time of selling the securities, the difference in book value and the price securities are purchased is recorded as trading gain or loss on securities sold.

3-10-2 Deposits, borrowings and debentures

After initial recognition, interest bearing deposits, borrowings and debentures are subsequently measured at amortized cost using the EIR method. Gains and losses are recognized in the consolidated statement of comprehensive income when the liabilities are derecognized as well as through the EIR method amortization process.

3-11 Derecognition of financial liabilities

A financial liability is derecognized when the obligation under the liability is discharged, canceled or expired. When an existing financial liability is replaced by another from the same lender on substantially different terms, or the terms of an existing liability are substantially modified, such an exchange or modification is treated as of the original liability and the recognition of a new liability, and the difference in the respective carrying amounts is recognized in the consolidated statement of comprehensive income.

3–12 Offsetting of financial instruments

Financial assets and financial liabilities are offset and the net amount reported in the consolidated statement of financial position if, and only if, there is a currently enforceable legal right to offset the recognized amounts and there is an intention to settle on a net basis or to realize the asset and settle the liability simultaneously.

3–13 Provisions

Provisions are recognized when the Group has a present obligation (legal or constructive) as a result of a past event, it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation.

The provision is used only for expenditures for which the provision was originally recognized. If a present obligation is not probable that an outflow of resources embodying economic benefits will be required to settle the obligation or the amount of the obligation cannot be measured with sufficient reliability, the Group discloses the obligation as a contingent liability. If the effect of the time value of money is material, provisions are measured at present value; the amount of a provision is measured at the present value of the expenditures expected to be required to settle the obligation.

The Group recognizes a provision for confirmed acceptances and guarantees, unconfirmed acceptances and guarantees, bills endorsed by applying cash conversion factor, same way that is applied to collective assessments of loans and receivables. The Group measures provisions for unused credit line by applying credit conversion factor, the additional withdrawal rate in the event of default, in the same way.

3–14 Financial guarantee contracts

A financial guarantee contract is a contract that requires the issuer to make specified payments to reimburse the holder for a loss it incurs because a specified debtor fails to make payment when due in accordance with the original or modified terms of a debt instrument and is measured at fair value on date of initial recognition. After initial recognition, the Group, as an issuer of such a contract, measures it at the higher of (i) the amount determined in accordance with K–IFRS 1109 Financial instruments and (ii) the amount initially recognized less, when appropriate, cumulative amortization recognized in accordance with K–IFRS 1115 Revenues from contracts with customers.

3-15 Bonds purchased under resale agreements and bonds sold under repurchase agreements

Bonds purchased under resale agreements and bonds sold under repurchase agreements are included in loans receivable and borrowings, respectively, in the accompanying consolidated statement of financial position. Interest income and expense from purchase or sale are recognized as interest income on loan receivables and interest expense on borrowings.

3–16 Property and equipment

An item of property and equipment is measured at its cost less any accumulated depreciation. The cost of an item of property and equipment includes any costs directly attributable to acquisition of an item.

Subsequent cost is recognized as an asset if, and only if it is probable that future economic benefits associated with the cost will flow to the Group and the cost can be measured reliably. The carrying amount of parts that are replaced is derecognized. The Group recognizes other repair and maintenance costs as profit or loss for the current period.

Land is not depreciated. Depreciation of other item of property and equipment is calculated using methods listed below to write down the cost of property and equipment to their residual values over their estimated useful lives. The depreciation methods and estimated useful lives are as follows:

| Classification | Depreciation method | Useful life (years) |
|--|--|------------------------|
| Buildings for business purpose, equipment attached to the building and construction structures | Straight-line method | 5 to 55 |
| Vehicles, furniture and fixtures, and leasehold improvements | Straight-line method or declining-balance method | 3to 20 |

When the carrying amount of an asset exceeds its recoverable amount, the asset is written down to its recoverable amount. The residual value and useful life of an asset are reviewed at each financial year end, and if expectations differ from previous estimates, the Group applies change in estimates. Any gain or loss arising on derecognition of the asset (calculated as the difference between the net disposal proceeds and the carrying amount of the asset) is included in non-operating income in the consolidated statements of comprehensive income.

Government grants are recognized where there is reasonable assurance that the grant will be received and all attached conditions will be complied with. When the grant relates to an expense item, it is recognized as income on a systematic basis over the periods that the related costs, for which it is intended to compensate, are expensed. When the grant relates to an asset, it is recognized as income in equal amounts over the expected useful life of the related asset.

3–17 Investment properties

An item of investment properties is measured at its cost less any accumulated depreciation. The cost of an item of investment properties includes any costs directly attributable to acquisition of an item. After initial recognition, the Group measures all of its investment properties in accordance with the cost model in K-IFRS 1040.

Land is not depreciated. Depreciation of other item of investment properties is calculated using methods listed below to write down the cost of investment properties to their residual values over their estimated useful lives. The depreciation methods and estimated useful lives are as follows:

| Classification | Depreciation method | Useful life (years) | |
|----------------|----------------------|------------------------|--|
| Buildings | Straight-line method | 5 to 55 | |

Investment properties are derecognized when either they have been disposed of or when the investment property is permanently withdrawn from use and no future economic benefit is expected from its disposal. The difference between the net disposal proceeds and the carrying amount of the asset is recognized in the consolidated statement of comprehensive income in the period of derecognition. Transfers to, or from, investment properties are made when, and only when, there is a change in use.

3-18 Intangible assets

An intangible asset is recognized only when its cost can be measured reliably and it is probable that the expected future economic benefits that are attributable to it will flow to the Group. Intangible assets include industrial right, software, development cost and others. These intangible assets are amortized using the straight-line method over the estimated useful life based on the following economic useful life. Membership is not amortized.

| Classification | Depreciation method | Years |
|--|----------------------|----------|
| Industrial property, software, systemdevelopment, and trademark rights | Straight-line method | 5 |
| Core deposit | Straight-line method | 14 |
| Client membership | Straight-line method | 10 to 30 |
| Others | Straight-line method | 1 to 20 |

Intangible assets acquired separately are measured on initial recognition at cost. The cost of intangible assets acquired in a business combination is their fair value as of the date of acquisition in accordance with K-IFRS 1103 Business Combinations. Following initial recognition, the carrying amount of intangible assets with finite useful lives is allocated on a systematic basis over their useful lives. The intangible assets with indefinite useful lives are not amortized and the Group tests those assets for impairment annually and whenever there is an indication that the intangible asset may be impaired. The assessment of indefinite life is reviewed annually to determine whether the indefinite life continues to be supportable.

3-19 Non-current assets held for sale

The Group classifies a non-current asset or disposal group as held for sale if its carrying amount will be recovered principally through a sale transaction rather than through continuing use. For this to be the case, the asset or disposal group must be available for immediate sale in its present condition and its sale must be highly probable. The asset (or disposal group) must be available for immediate sale in its present condition subject only to terms that are usual and customary for sales of such assets (or disposal groups) and its sale must be highly probable.

The Group measures a non-current asset (or disposal group) classified as held for sale at the lower of its carrying amount and fair value less costs to sell.

3-20 Impairment of non-financial assets

The Group tests the depreciable asset for impairment whenever there is a change of environment or an event that the carrying amount may not be recoverable.

The Group recognizes an excess of the carrying amount over the recoverable amount as an impairment loss. The Group defines recoverable amount as the higher of an asset's or cash-generating unit's ("CGU") fair value less costs to sell and its value in use. For measuring the impairment of assets, the Group identifies the lowest aggregation of assets that generate largely independent cash inflows (CGU). The Group assesses reversal of an impairment loss recognized for the non-financial assets other than goodwill at the end of reporting period.

3–21 Short-term employee benefits

When employees have rendered services to the Group during an accounting period, the Group recognizes the undiscounted amount of short-term employee benefits. This amount is expected to be settled in whole before 12 months after the end of the reporting period, in exchange for those services.

3-22 Net defined benefit liabilities (assets)

The Group has both defined benefit and defined contribution plans. A defined contribution plan is a pension plan under which the Group pays fixed contributions into a separate entity. The Group has no legal or constructive obligations to pay further contributions if the fund does not hold sufficient assets to pay all employees the benefits relating to employee service rendered in the current and prior periods. Defined benefit plans are all post employment benefit plans, except for defined contribution plans. A defined benefit plan is a pension plan that defines an amount of pension benefit that an employee will receive on retirement, usually dependent on one or more factors, such as years of service and compensation.

The defined benefit liability is the present value of the defined benefit obligation less the fair value of plan assets. The cost of providing benefits under the defined benefit plan is determined separately using the projected unit credit actuarial valuation method. The present value of the defined benefit liability is recorded in the same currency as the payment itself and is calculated by discounting the expected future cash flow and using the interest rate of other reputable companies with similar payment and end of reporting dates.

Changes in the actuarial estimates and actuarial gains and losses between estimates and results are recognized in the period they occur as part of other comprehensive income. The past service cost is recognized immediately.

The Group has no further payment obligations once the contributions have been paid. The contributions are recognized as employee benefit expense when they are due. Prepaid contributions are recognized as an asset to the extent that a cash refund or a reduction in the future payments is available.

3–23 Termination benefits

Termination benefits are payable when employment is terminated by the Group before the normal retirement date or an employee's decision to accept an offer of benefits in exchange for the termination

of employment. The Group recognizes a liability and expense for termination benefits at the earlier of the following dates when the Group can no longer withdraw the offer of those benefits and when the Group recognizes costs for a restructuring that is within the scope of K-IFRS 1037 and involves the payment of termination benefits. Termination benefits for voluntary redundancies are recognized as an expense if the Group has made an offer of voluntary redundancy, it is probable that the offer will be accepted and the number of acceptances can be estimated reliably. If the termination benefits are not expected to be settled wholly before 12 months after the end of the annual reporting period, then the termination benefits are discounted to present value.

3-24 Share-based payment transactions

The Group grants share options to its employees in the form of share-based payment transactions. For equity-settled share-based payment transactions, the Group measures the goods or services received and the corresponding increase in equity, directly, at the fair value of the goods or services received and recognizes the cost as employee benefits expense and other capital adjustment in equity. If the Group cannot estimate reliably the fair value of the goods or services received, the Group measures their value and the corresponding increase in equity, indirectly, by reference to the fair value of the equity instruments granted and recognizes the cost as employee benefits expense and other capital adjustment in equity. For cash-settled share-based payment transactions, the Group measures the goods or services acquired and the liability incurred at the fair value of the liability. Until the liability is settled, the Group remeasures the fair value of the liability at the end of each reporting period and at the date of settlement, with any changes in fair value recognized in profit or loss for the period. For share-based payment transactions in which the terms of the arrangement provide the counterparty with a choice of settlement, the Group accounted for the transactions in accordance with their commercial substance

3-25 Income tax expenses and deferred tax assets and liabilities

3-25-1 Recognition of income tax expenses and deferred tax assets and liabilities

Income taxes are comprised of current and deferred taxes. All items related to taxes, other than those recognized directly in equity, are accounted for in the consolidated statement of comprehensive income. Accordingly, items recognized directly in equity and the related taxes are accounted for as OCI in the consolidated statements of comprehensive income.

Current income tax expenses are computed based on the tax rates and tax laws enacted or substantively enacted in the jurisdictions that the Group operates in and generates taxable income at the end of the reporting period. If application of related tax law or regulation depends on the interpretation, the Group measures the current tax liabilities at the amount expected to be paid to the taxation authorities based on its interpretation and assesses its initial interpretation periodically.

Deferred tax is provided on the temporary differences at the reporting date between the tax bases of assets and liabilities and their carrying amounts for financial reporting purposes.

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When the initial recognition of an asset or liability in a transaction that is not a business and at the time of the transaction, affects neither accounting profit nor taxable profit, the Group does not recognize a deferred tax asset or liability. The Group measures deferred tax assets and liabilities at the tax rates that are expected to apply to the period when the asset is realized or the liability is settled, based on tax rates (and tax laws) that have been enacted or substantively enacted by the end of the reporting period.

The Group recognizes a deferred tax asset for all deductible temporary differences to the extent it is probable that taxable profit will be available against which the deductible temporary difference can be utilized.

The Group recognizes a deferred tax liability for all taxable temporary differences with investments in subsidiaries, except to the extent that both of the following conditions are satisfied: (a) the parent is able to control the timing of the reversal of the temporary difference and (b) it is probable that the temporary difference will not reverse in the foreseeable future.

The Group offsets deferred assets and liabilities if, and only if (a) the Group has a legally enforceable right to set off current tax assets against current tax liabilities and (b) the deferred tax assets and the deferred tax liabilities relate to income taxes levied by the same taxation authority on either on (i) the same taxable entity or (ii) different taxable entities that intend either to settle current tax liabilities and assets on a net basis, or to realize the assets and settle the liabilities simultaneously, in each future period in which significant amounts of deferred tax liabilities or assets are expected to be settled or recovered.

3–25–2 Uncertain tax position

Uncertain tax position arises from the Company's request for correction due to the complexity of transactions or differences in interpretation of tax laws, litigation for refund of additional tax by the tax authorities, and tax investigation. The Company recognizes and measures uncertain tax position in accordance with K-IFRS 1012 and IFRS Interpretations Committee ("IFRIC") 23.

If the Company concludes it is probable that the taxation authority will refund taxes in the future, the Company shall recognize an income tax asset. On the other hand, if the Company concludes it is probable that the Company will pay tax as a result of tax investigations, the amount expected to be paid is recognized as an income tax liability. However, panalty tax and refund penalty are recognized as interest and penalties in accordance with K-IFRS 1037

3-26 Insurance contracts

Hana Life Insurance and Hana Insurance Co., Ltd.'s significant accounting policies relating to insurance contracts are as follows.

An insurance contract is a contract under which one party (the insurer) accepts significant insurance risk from another party (the policyholder) by agreeing to compensate the policyholder if a specified uncertain future event (the insured event) adversely affects the policyholder.

A contract that qualifies as an insurance contract remains an insurance contract until all rights and obligations are extinguished or expired. Such investment contract that contains Discretionary Participation Features subsequent to the contract classification according to quantitative criteria is within the scope of K–IFRS 1104 Insurance Contracts. If the investment contract does not contain Discretionary Participation Features, the contract is subject to K–IFRS 1109 Financial Instruments.

3-26-1 Reinsurance assets

The Group does not offset the reinsurance assets against the related reinsurance liabilities. If a reinsurance asset is impaired, the Group reduces its carrying amount accordingly and recognizes that impairment loss in profit or loss.

3-26-2 Deferred acquisition costs

The Group amortized the acquisition costs arising from long-duration contracts during the term of the contracts in the straight-line method in accordance with Accounting Standards for Insurance Business Article 31 and Article 3 of the supplementary provisions. If the acquisition costs exceed the expected amount or the additional premiums are settled highly for earlier term of the contracts to collect the acquisition costs in early stage, the acquisition costs are recognized in the period they occur as profit or loss. The deferred acquisition costs are amortized over the term of the contracts within the limits of seven years. The unamortized costs of surrendered insurance contract are amortized in the period it is surrendered.

3-26-3 Liabilities reserves

The Group recognizes liabilities reserves by types of insurance contracts as of the reporting date in accordance with the Insurance Business Act and the related regulations. The liabilities reserves refer to an amount calculated pursuant to the premiums and liabilities reserves calculation manual for payment of claims, bonus return and policyholders dividend.

3-26-4 Valuation of special accounts assets and liabilities

The Group designates and operates any of the retirement insurance contracts, retirement dividend insurance contracts and variable insurance contracts (including variable universal insurance contracts) as special accounts pursuant to Article 108 (1) of the Insurance Business Act and Article 52 of the Regulations on Supervision of Insurance Business.

3-26-5 Liability adequacy assessment

At the end of each reporting period, the Group evaluates the appropriate insurance liabilities recognized using current estimates of future cash flows of all insurance contracts (including cash flows, such as claims handling costs as well as cash flows resulting from embedded options and guarantees). In the case of long-term insurance, future cash flows are discounted at the rate of return on future operating assets, and in the case of general insurance and auto insurance, the present value is not discounted.

Earned premiums and long-term unearned premiums evaluate insurance liabilities adequacy by considering all cash flows, such as future insurance, business expenses and operating insurance premiums. As a result of the evaluation, if the carrying amount of insurance liability is inappropriate from the perspective of

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estimated future cash flows, the full amount is recognized as profit or loss. If the evaluation shows that the liability is inadequate, the entire deficiency is recognized in profit or loss.

3-27 Equity

3-27-1 Classification of equity

The Group classifies a financial instrument on initial recognition as a financial liability or an equity instrument in accordance with the substance of the contractual arrangement. If the Group has the right to avoid contractual obligation relating to an issued financial instrument, the Group classifies the financial instrument as an equity instrument in accordance with the substance of the contractual arrangement. The Group classifies a hybrid equity security on initial recognition as equity if it meets the condition of an equity instrument. The hybrid equity securities, issued by subsidiaries of the Group, are classified as non–controlling interests according to this classification standard. Distributions from hybrid equity securities are accounted as net income attributable to non–controlling interests in the consolidated statements of profit or loss and other comprehensive income.

3-27-2 Stock issuance costs

Additional stock issuance costs or incremental costs related to the stock issuance for business combinations are recorded as a deduction from issued capital net of tax effects.

3-27-3 Dividends on common stock

Dividends from common stock are deducted from the Group's equity and recognized as a liability upon approval of dividend distributions at the shareholders' meeting (the board of directors for the interim dividends). Dividends declared for the year that are approved after the reporting date are disclosed as a subsequent event.

3-27-4 Treasury stock

Equity instruments of the Group that are acquired by the Group or any of its subsidiaries are deducted from its equity and recorded at acquisition cost, including transaction costs. Consideration received on the sale or issuance of the Group's own equity instruments is recognized directly in equity.

3–28 Earnings per share

Basic and diluted earnings per share are computed by dividing net income by the weighted-average number of shares of common stock outstanding during the year.

3–29 Accounting basis for trust accounts

The Group separates trust properties from proprietary properties in accordance with the Supervisory Regulations on Financial Investment Business. The Group recognizes funds lent or borrowed to trust accounts as accounts receivable or accounts payable, respectively. The Group recognizes trust commissions earned from trust accounts as income from trust operations. When a loss is incurred on a trust account that includes a guarantee of principal repayment, the corresponding loss is recognized as a loss from trust operations.

3-30 Lease

In accordance with K-IFRS 1116, the Group applies a single recognition and measurement approach for all leases, except for leases of low-value assets. K-IFRS 1116 provides guidance on specific transition requirements and practical expedients that an entity may apply.

The Group recognized right-of-use assets and lease liabilities for those leases previously classified as operating leases, except leases of low-value assets. The right-of-use assets for most leases were recognized based on the carrying amount as if the standard had always been applied, apart from the use of incremental borrowing rate at the date of initial application. In some leases, the right-of-use assets were recognized based on the amount equal to the lease liabilities, adjusted for any related prepaid and accrued lease payments previously recognized. Lease liabilities were recognized based on the present value of the remaining lease payments, discounted using the incremental borrowing rate at the date of initial application.

The Group also applied the available practical expedients wherein it:

- Used a single discount rate to a portfolio of leases with reasonably similar characteristics
- Relied on its assessment of whether leases are onerous immediately before the date of initial application
- Applied the short-term leases exemptions to leases with lease term that ends within 12 months of the date of initial application
- Excluded the initial direct costs from the measurement of the right-of-use asset at the date of initial application
- Used hindsight in determining the lease term where the contract contained options to extend or terminate the lease

3-31 Merchant banking accounts

As permitted by the Restructuring of Financial Institutions Act, the Group may continue its merchant banking operations, including business affairs of bill management accounts, until the existing contracts acquired from Korea International Merchant Bank upon merger are terminated.

Significant accounting policies applied to the Group's merchant banking operations are summarized as follows:

3–31–1 Revenue recognition on discounted notes

Interest income on discounted notes is accrued over the term of the notes. Income from the sale of the discounted notes is recognized at the date of sale based on the difference between the purchase and sales prices of the notes, adjusted for interest earned during the holding period.

3–31–2 Cash Management Accounts (CMA)

The Group recognizes interest income from CMA investments and interest expense from CMA deposits as other income and other expenses, respectively.

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3–32 Revenue Recognition

The Group recognizes revenues in accordance with the following steps determined in accordance with K–IFRS 1115 Revenue from Contracts with Customers:

- Step 1: Identify the contract with a customer.
- Step 2: Identify the separate performance obligations in the contract.
- Step 3: Determine the transaction price of the contract.
- Step 4: Allocate the transaction price to each of the separate performance obligations in the contract.
- Step 5: Recognize revenue when (or as) each performance obligation is satisfied.

3–32–1 Interest income and interest expense

The Group recognizes interest income and expense using the EIR method by the passage of time.

The EIR method is a method of calculating the amortized cost of a financial asset or a financial liability (or group of financial assets or financial liabilities) and of allocating the interest income or interest expense over the relevant period. The EIR is the rate that exactly discounts estimated future cash payments or receipts through the expected life of the financial instrument or, when appropriate, a shorter period to the net carrying amount of the financial asset or financial liability. The Group estimates cash flows considering all contractual terms of the financial instrument, but does not consider future credit losses. The cash flows include all fees and points paid or received by the Group, including transaction costs, and all other premiums or discounts.

If it is probable that interest income arising from a financial asset will flow to the Group, the interest income is recognized as income when the Group receives interest payments. For the impaired loans and receivable that are individually assessed, the Group recognizes the adjustment as interest income if recover ability of the assets subsequently increases.

3-32-2 Fee and commission income

The Group earns fees and commissions income from a diverse range of services it provides to its customers. Fee income, which is part of the EIR of a financial instrument, is adjusted to an EIR and recognized as interest income.

Under the new K-IFRS 1115, the commission income charged by providing services is recognized by applying a five-stage revenue recognition model (①Identification of a contract with a customer \rightarrow ②Identification of performance obligations in the contract \rightarrow ③Determination of the transaction price \rightarrow ④Allocation of the transaction price to the separate performance obligations in the contract \rightarrow ⑤Recognition of revenue upon satisfying the performance obligations) to all of its contracts with customers.

3-32-3 Net gains or losses on financial instruments at FVTPL

Net gains or losses on financial instruments at FVTPL (including changes in fair value, etc) include gains and losses from following financial instruments:

- Gains or losses relating to financial instruments at FVTPL
- Gains or losses relating to derivatives for trading

3-33 Dividend income

Dividend income is recognized when the Group's right to receive the payment is established.

3-34 Transaction under common control

The Group conducted accounting treatment of transactions under common control based on book value. Therefore, the Group recognized (eliminated) asset, liability and capital as at merger and spinoff date as book value and didn't recognize transaction gain (loss).

3-35 Nature and the impact of each new and amended standards and interpretations

3-35-1 K-IFRS 1103 Business Combinations - Reference to the Conceptual Framework (Amendments)

The amendments update K-IFRS 1103 so that it refers to the Conceptual Framework (2018) instead of the Framework (2007). They also add to K-IFRS 1103 a requirement that, for obligations within the scope of K-IFRS 1037 Provisions, Contingent Liabilities and Contingent Assets, an acquirer applies K-IFRS 1037 to determine whether at the acquisition date a present obligation exists as a result of past events. For a levy that would be within the scope of K-IFRS 2121 Levies, the acquirer applies K-IFRS 2121 to determine whether the obligating event that gives rise to a liability to pay the levy has occurred by the acquisition date.

Finally, the amendments add an explicit statement that an acquirer does not recognize contingent assets acquired in a business combination.

The amendments are effective for business combinations for which the date of acquisition is on or after the beginning of the first annual period beginning on or after January 1, 2022. There is no material impact of this amendment on the Group's consolidated financial statements.

3–35–2 K–IFRS 1016 Property, Plant and Equipment – Proceeds before Intended Use and the related costs (Amendments)

The amendments prohibit an entity from deducting from the cost of an item of property, plant and equipment the proceeds from selling items produced before that asset is available for use. Proceeds before intended use and related cost are recognized in profit and loss. An entity recognizes the proceeds from selling any such items, and the cost of those items, in profit or loss and measures the cost of those items applying the measurement requirements of K–IFRS 1002 Inventories.

If not presented separately in the consolidated statement of comprehensive income, the consolidated financial statements shall also disclose the amounts of proceeds and cost included in profit or loss that relate to items produced that are not an output of the entity's ordinary activities and which line items in the consolidated statement of comprehensive income include such proceeds and cost,

An entity shall apply those amendments retrospectively, but only to items of property, plant and equipment that are brought to the location and condition necessary for them to be capable of operating in the manner intended by management on or after the beginning of the earliest period presented in the consolidated financial statements in which the entity first applies the amendments. The entity shall recognize the cumulative effect of initially applying the amendments as an adjustment to the opening balance of retained earnings (or other component of equity, as appropriate) at the beginning of that earliest period presented. There is no material impact of this amendment on the Group's consolidated financial statements.

3–35–3 K–IFRS 1037 Provisions, Contingent Liabilities and Contingent Assets

- Onerous Contracts - Cost of Fulfilling a Contract (Amendments)

The amendments specify that the 'cost of fulfilling a contract' comprises the 'costs that relate directly to the contract.' Costs that relate directly to a contract consist of both the incremental costs of fulfilling that contract (examples would be direct labor or materials) and an allocation of other costs that relate directly to fulfilling contracts (an example would be the allocation of the depreciation charge for an item of property, plant and equipment used in fulfilling the contract).

The amendments apply to contracts for which the entity has not yet fulfilled all its obligations at the beginning of the annual reporting period in which the entity first applies the amendments. Comparatives are not restated. Instead, the entity shall recognize the cumulative effect of initially applying the amendments as an adjustment to the opening balance of retained earnings or other component of equity, as appropriate, at the date of initial application. There is no material impact of this amendment on the Group's consolidated financial statements.

3-35-4 Annual Improvements to K-IFRS Standards 2018-2020

The annual improvements include amendments to four standards such as K-IFRS 1101 First-time Adoption of K-IFRS, K-IFRS 1109 Financial Instruments, K-IFRS 1116 Leases and K-IFRS 1041 Agriculture.

3-35-4-1 K-IFRS 1101 First-time Adoption of K-IFRS (Amendment)

The amendment provides additional exemption to a subsidiary, which becomes a first-time adopter later than its parent in respect of accounting for cumulative translation differences. As a result of the amendment, a subsidiary that uses the exemption in K-IFRS 1101 paragraph D16(1) can now also elect to measure cumulative translation differences for all foreign operations at the carrying amount that would be included in the parent's consolidated financial statements, based on the parent's date of transition to K-IFRS standards, if no adjustments were made for consolidation procedures and for the effects of the business combination in which the parent acquired the subsidiary. A similar election is available to an associate or joint venture that uses the exemption in K-IFRS 1101 paragraph D16(1). There is no material impact of this amendment on the Group's consolidated financial statements.

3-35-4-2 K-IFRS 1109 Financial Instruments (Amendment)

The amendment clarifies that in applying the '10 percent' test to assess whether to derecognize a financial liability, an entity includes only fees paid or received between the entity (the borrower) and the lender,

including fees paid or received by either the entity or the lender on the other's behalf. The amendment is applied prospectively to modifications and exchanges that occur on or after the date the entity first applies the amendment. There is no material impact of this amendment on the Group's consolidated financial statements.

3-35-4-3 K-IFRS 1041 Agriculture

The amendment removes the requirement in K-IFRS 1041 for entities to exclude cash flows for taxation when measuring fair value. This aligns the fair value measurement in K-IFRS 1041 with the requirements of K-IFRS 1113 Fair Value Measurement to use internally consistent cash flows and discount rates and enables preparers to determine whether to use pretax or posttax cash flows and discount rates for the most appropriate fair value measurement.

As the Company does not have assets within the scope of K-IFRS 1041, there is no material impact of this amendment on the Group's consolidated financial statements.

3-35-5 K-IFRS 1007 Statements of cash flow - Cash and cash equivalent

The Group has applied an accounting policy that excludes demand deposits with restrictions on use arising from relevant regulations, such as reserve requirement deposits, from cash equivalents. However, based on the agenda decision made by IFRS Interpretations Committee in March 2022, regarding "Demand Deposits with Restrictions on Use arising from a Contract with a Third Party," the Group has changed its accounting policy to classify demand deposits with restrictions on use arising from relevant regulations, including reserve requirement deposits, as cash equivalent.

There is no change in the consolidated statement of financial position and consolidated statement of comprehensive income due to the accounting policy. The main revised amount for each item in the consolidated statements of cash flow for the year ended December 31, 2021 are as follows (Korean won in millions):

<December 31, 2021>

| Classification | Before revision | Afterrevision | Netincrease |
|--|-----------------|---------------|-------------|
| IV. Effect of exchange rate changes on cash and cash equivalents | 164,574 | 644,916 | 480,342 |
| V. Net increase (decrease) incash and cash equivalents | (1,207,693) | 3,515,257 | 4,722,950 |
| VI. Cashandcash equivalents as of January 1, 2021 | 7,357,241 | 23,421,212 | 16,063,971 |
| VII. Cashandcashequivalents as of December 31, 2021 | 6,149,548 | 26,936,469 | 20,786,921 |

3–36 Standard issued but not yet effective is as follows:

The standards and interpretations that are issued, but not yet effective, up to the date of issuance of the Group's consolidated financial statements are disclosed below.

3–36–1 K–IFRS 1117 Insurance Contracts (Enactment)

The K-IFRS 1117 insurance contract established on April 23, 2021 applies for annual periods beginning on after January 1, 2023, which will replace the current K-IFRS 1104 insurance contract.

The main features of K-IFRS 1117 are the measurement of the current value of insurance liabilities, the recognition of insurance returns on accrual basis and the separation of gains and losses on insurance and investment. Previous K-IFRS 1104 measured insurance liabilities using historical information (such as interest rates at the time of sale), recognized premiums received by the entity as insurance revenue on cash basis and had no obligation to distinguish between insurance and investment gains. On the other hand, K-IFRS 1117 measures the current value of insurance liabilities by using discount rates that reflect assumptions and risks at present, and insurance revenue recognizes revenue on an accrual basis, reflecting services provided by insurers to contractors in each financial year, separating insurance gain or loss on investment.

When an insurer applies K-IFRS 1117 to prepare new financial statements, it is expected to cause significant differences from the current financial statements. These parts do not include all future differences and can be changed by the analytical results in the future.

According to K–IFRS 1117, an insurer estimates all cash flows under an insurance contract and measures insurance liabilities using discount rates that reflect assumptions and risks at the time of reporting. Specifically, insurers identify a portfolio of insurance contracts that are exposed to similar risks and consisted of similar contracts and within that portfolio separate sets of insurance contracts with similar profitability. Subsequently, group of insurance contracts are measured by estimates of future cash flows (including insurance loan–related cash flows, reflecting the time value of money), risk adjustment and the sum of insurance contract margins. The introduction of K–IFRS 1117 introduces a new insurance contract margin account, that means unrealized gains that will be recognized in future by delivering insurance contract services.

On the other hand, reinsurance contracts mean insurance contracts issued by reinsurers to compensate for insurance premiums. Also, the new group of insurance contracts applies a consistent assumption with original contract in estimating the present value of future cash flows.

According to K-IFRS 1117, insurance revenue is recognized on an accrual basis, reflecting the services (insurance) provided by the insurer to the contractor in each fiscal year, and the investment components paid to the clients are excluded from insurance revenue. In addition, by separately displaying insurance gains and losses on investment, the information user can identify the source of the gains and losses.

In addition, insurance companies include the time value of money related to group of insurance contracts, financial risks and the effects of their fluctuations on insurance finance income and loss, and should select an accounting policy on whether to separate insurance finance gains and losses for the period into profit or loss and OCI.

According to the transitional provisions of K-IFRS 1117, insurers apply a full retrospective method, modified retrospective method or fair value method to adjust fair value measurement rather than cost-based valuation for group of insurance contracts issued prior to the date of transition on January 1, 2022 (the beginning of the annual reporting period prior to the date of initial application).

In principle, an insurer must identify, recognize and measure a group of insurance contracts (completely retrospectively) as if K-IFRS 1117 had been applied even before the transition date. However if it is practically difficult, the insurer may choose to apply the modified retrospective method or fair value approach. However, in the case of a group of insurance contracts with direct participation characteristics that meet certain requirements, the fair value method can be applied even if the full retrospective method is applicable.

The modified retrospective method is a method for obtaining results similar to the full retrospective method using reasonable and supportable information available without undue cost or effort. The fair value method is a method of evaluating a group of insurance contracts by using the fair value valuation amount according to K–IFRS 1113 Measurement of fair value. When the fair value method is applied, the insurance contract margin on the remaining guarantee liability is calculated as the difference between the fair value of the insurance contract group at the date of transition and the fulfillment cash flow.

In K-IFRS 1104, insurance liabilities have been measured using historical information, but in K-IFRS 1117, insurance liabilities are measured at their present value using a discount rate that reflects the assumptions and risks at the time of reporting. In addition, the existing cost-based valuation should be adjusted to the current valuation by applying (optionally) the full retrospective method, the modified retrospective method or the fair value method for a group of insurance contracts issued before the date of conversion.

In order for an insurance company to adopt K-IFRS 1117, it is necessary to prepare a separate introduction team, establish an accounting settlement system, train employees and analyze financial impact. Above all, the stability of the accounting settlement system and the consistency of system calculations must be secured for the adequacy of insurance liability evaluation, and accounting policies and actuarial assumptions must be set reasonably and applied consistently every period. To do this, the insurer must continuously validate the system and put internal control in place. In particular, the entity must establish and comply with an internal accounting management system suitable for the changed accounting environment so that reliable accounting information can be prepared and disclosed after the implementation of the new accounting standards.

The adoption of K-IFRS 1117 will not only change accounting standards, but will also have an impact on insurance product development, sales strategies and long-term management strategy. Accordingly, it is necessary for entities to establish various management strategies after the implementation of the new standards, to provide continuous education for related employees and to report the preparation status and future plans to the management.

The preparation status and plans for the introduction of K-IFRS 1117 of Hana Life Insurance, a subsidiary of the Group, are as follows.

In preparation for the adoption of K-IFRS 1117, Hana Life Insurance has organized and operated the IFRS 17 task force team(currently, the person in-charge of the actuary department) since March 2017. In March 2017, Hana Life Insurance established an insurance liability valuation system in April 2018. Hana Life Insurance established an accounting system in January 2020. Hana Life Insurance has been conducting a pilot operation

of the system and verifying its adequacy. And Hana Life Insurance completed a upgrade of the liability valuation system and the accounting system in November 2022. Hana Life Insurance plans to establish the internal control over the financial reporting ("ICFR") related to the adoption of K-IFRS 1117.

In addition, while providing education related to K-IFRS 1117 for executives and employees, Hana Life Insurance has frequently reported the preparation and the financial impact of the adoption of K-IFRS 1117 to the board of directors and its management

Specific preparations for the adoption and future plans are as follows:

| Mainactivity | Preparation (December 31, 2022) | Futureplans |
|------------------------------------|--|--|
| Organized ataskforce | -In March (2017), organization of task force (Seven members in present) | -Continuous operation of task force |
| Establishment of accounting system | In January (2020), systemdevelopment completed In November (2022), systemupgrade completed Pilot operation in progress | - Parallel financial closing - Establishment of ICFR |
| Training | -SharingK-IFRS 1117 knowledge and newwork process with department managers and key staff | -Sharing the acts and regulations amended related to K-IFRS 1117 |
| Management reporting | -Systemestablishment, reporting financial impact | -Report on all matters related to parallel financial closing |

With the adoption of K-IFRS 1117, as the valuation method of liabilities and the method of revenue recognition are changed, the financial figures for 2023 are expected to change accordingly. Furthermore, as it is allowed to change the business model under K-IFRS 1109 with the adoption of K-IFRS 1117, it is expected that the Group's consolidated financial statements including the consolidated statements of financial position and the consolidated statements of comprehensive income will reflect the impact of the reclassification of the financial instruments.

In accordance with the initial application of K-IFRS 1117, the financial impact on the financial statements of Hana Life Insurance for the year ended December 31, 2022, calculated by the financial closing system, is as follows:

When applying K-IFRS 1117, Hana Life Insurance's assets, liabilities and equity in the statements of financial position as of December 31, 2022 are expected to be \(\pms\)5,704,028 million, \(\pms\)5,357,738 million and \(\pms\)4346,290 million, respectively. Hana Life Insurance's net income and comprehensive income in the statements of comprehensive income for the year ended December 31, 2022 are expected to be \(\pms\)16,600 million and \(\pms\)63,378 million, respectively. Compared to applying K-IFRS 1104, assets and liabilities decreased by \(\pms\)172,436 million and \(\pms\)304,343 million, respectively; equity increased by \(\pms\)131,907 million; and net income increased by \(\pms\)452 million and total comprehensive income decreased by \(\pms\)137,628 million, respectively.

The results of this analysis are subject to change depending on additional information available in the future and economic conditions.

<Statement of the financial position>

| Accounts | The amount in accordance with K-IFRS 1104(A) (*1) | Accounts | Theamountin accordancewith K-IFRS1117(B) (*2) | Effect(B-A) |
|--------------------------------|---|----------------------------------|---|-------------|
| Total assets | 5,876,464 | Total assets | 5,704,028 | (172,436) |
| Financial assets | 4,011,527 | Financial assets | 5,614,526 | |
| Derivatives assets | 2,114 | Derivatives assets | 2,114 | |
| Tangible assets | 2,091 | Tangibleassets | 2,091 | |
| Lease right-of-use assets | 11,067 | Leaseright-of-use assets | 11,067 | |
| Intangible assets | 10,287 | Intangible assets | 10,287 | |
| Reinsurance contract assets | 2,883 | Reinsurance contract assets | 5,576 | |
| Deferred acquisition costs | 30,806 | Otherassets | 58,367 | |
| Otherassets | 112,448 | | | |
| Special accounts assets | 1,693,241 | | | |
| Total liabilities | 5,662,081 | Total liabilities | 5,357,738 | (304,343) |
| Insurance contract liabilities | 3,644,652 | Insurance contract liabilities | 4,511,067 | |
| Debentures | 49,992 | Reinsurance contract liabilities | 6,853 | |
| Derivatives liabilities | 4,236 | investment contract liabilities | 751,845 | |
| Lease liabilities | 11,081 | Debentures | 49,992 | |
| Definedbenefit obligation | 1,498 | Derivatives liabilities | 4,236 | |
| Provisions | 157 | Leaseliabilities | 11,081 | |
| Otherliabilities | 183,262 | Defined benefit obligation | 1,498 | |
| Special accounts liabilities | 1,767,203 | Provisions | 157 | |
| | | Otherliabilities | 21,009 | |
| Total equity | 214,383 | Total equity | 346,290 | 131,907 |

<Statements of comprehensive income>

| Accounts | The amount in accordance with K-IFRS 1104(A) (*1) | Accounts | The amount in accordance with K-IFRS 1117(B) (*2) | Effect(B-A) |
|------------------------------|---|---------------------------|---|-------------|
| Operatingincome | 1,047,110 | Insurance revenue | 477,013 | (570,097) |
| Premiumincome | 795,308 | Expected claims, etc. | 71,454 | |
| Reinsurance income | 11,773 | Investmentincome | 9,940 | |
| Investment income | 240,029 | Otheroperatingincome | 395,619 | |
| Operatingexpense | 1,027,567 | Operatingexpense | 458,391 | (569,176) |
| Provision for policy reserve | 246,600 | Insurance service expense | 60,716 | |
| Insurance claim | 607,296 | Reinsurance expens | 11,924 | |
| Reinsurance expense | 12,316 | Other operating expense | 11,856 | |

| Accounts | The amount in accordance with K- Accounts IFRS 1104(A) (*1) | | The amount in accordance with K-IFRS 1117(B) (*2) | Effect(B-A) |
|-----------------------------------|--|-----------------------------------|---|-------------|
| Business expenses | 59,138 | Investment operating income | 373,895 | |
| Depreciation of acquisition costs | 16,030 | - | | |
| Investment expense | 76,919 | - | | |
| Other operating expense | 9,268 | - | | |
| Net operating income | 19,543 | Net operating income | 18,622 | (921) |
| Non-operatingincome | 1,331 | Non-operatingincome | 9,585 | |
| Non-operatingloss | 3,403 | Non-operatingloss | 1,667 | |
| Incometax expenses | 17,471 | Income tax expenses | 26,540 | 9,069 |
| Netincome (loss) | 7,323 | Net income (loss) | 9,940 | |
| Other comprehensive income (loss) | 10,148 | Other comprehensive income (loss) | 16,600 | 6,452 |
| Other comprehensive income | (211,154) | Other comprehensive income | (79,978) | |
| Total comprehensive income | (201,006) | Total comprehensive income | (63,378) | 137,628 |

<Statements of cash flow>

| Accounts | The amount in accordance with K-IFRS 1104(A) (*1) | The amount in accordance with K-IFRS 1117(B) (*2) | Effect(B-A) |
|--|---|---|-------------|
| Net cash flows provided by (used in) operating activities | 322,818 | 409,694 | 86,876 |
| Net cash flows used in investing activities | (362,859) | (489,453) | (126,594) |
| Net cash flows provided by financing activities | (1,815) | (1,815) | _ |
| Effect of exchange rate changes on cash and cash equivalents | (200) | (200) | _ |

- (*1) These amounts are based on K-IFRS 1104 Insurance contracts and K-IFRS 1109 Financial instruments.
- (*2) These amounts are based on K-IFRS 1117 Insurance contracts and K-IFRS 1109 Financial instruments.

Hana Life Insurance adjusted the valuation of insurance liabilities from the cost to current value applying the modified retrospective method to insurance contracts issued within four years (2018–2021) immediately before the transition date (January 1, 2022) and the fair value method to insurance contracts issued earlier than four years before the transition date.

When applying the fair value method, the fair value of insurance contracts was calculated based on the insurance contract liability valuation calculated by the Korean Insurance Capital Standards ("K-ICS") and adjusted for certain items.

As a result of analyzing the financial impact related to transition, the insurance contract assets and insurance contract liabilities applied to K-IFRS 1117 are expected to be 44,602 million and 44,693,285 million, respectively, as of January 1, 2022.

The effect (estimated value) of the transition method on the valuation of insurance contract liabilities is as follows (Korean won in millions):

| | Issuanceyearof | | The effect of the adoption of K-IFRS 1117 | | | |
|--------------------------------|-------------------------------------|------------------------|---|------------------------------------|----------------------------------|--|
| Classification | Transitionmethod | insurance contracts | Insurance contract assets(*1) | Insurance contract liabilities(*1) | Insurance contract margin(*2) | |
| Underlying insurance contracts | Modified retrospective method | 2018–2021 | - | 1,353,076 | 101,406 | |
| Contracts | Fairvalue method | Before 2017 | - | 3,331,455 | 26,929 | |
| Reinsurance | Fairvalue method | Before 2021 | 4,602 | 8,754 | (12,526) | |
| | Total | | | 4,693,285 | 115,809 | |

- (*1) These amounts are the total amount of all components in insurance contract assets and insurance contract liabilities.
- (*2) These amounts include insurance contract margin in insurance contract assets and insurance contract liabilities.

When applying K-IFRS 1117, Hana Life Insurance's insurance contract assets and liabilities are expected to amount to \$5,576 million and \$4,517,920 million, respectively. As insurance contract loans' cash flows of \$107,212 million are reflected in insurance contract liabilities, there was a decrease in liabilities, and insurance contract liabilities are expected to decrease due to factors such as an increase in interest rates.

The composition (estimated value) of insurance contract assets and liabilities when applying K-IFRS 1117 is as follows (Korean won in millions):

| | | Assets in K-IFRS 1117 | | | | Liabilities in K-IFRS 1117 | | | | |
|-----------------|----------------|-----------------------|--|---------------|--|----------------------------|---|-------------------------------------|--|-------------------------------------|
| Classification | Classification | | Insurance contract assets (A) (*1), (*2) Total | | Reinsurance contract assets (B) (*1), (*3) | | Insurance contract liabilities(C) (*1), (*2) | | Reinsurance contract liabilities(D) (*1), (*3) | |
| 0.00000001 | (A+B) | Sub -total | Insurance contract margin(*4) | Sub -total | Insurance contract margin(*4) | Total (C+D) | Sub -total | Insurance contract margin(*4) | Sub -total | Insurance contract margin(*4) |
| Estimated value | 5,576 | _ | _ | 5,576 | 6,800 | 4,517,920 | 4,511,067 | 188,007 | 6,853 | (2,142) |

- (*1) The total amount of insurance (reinsurance) contract assets and insurance (reinsurance) contract liabilities includes all components.
- (*2) These amounts include assets and liabilities related to groups of insurance co ntracts issued by Hana Life Insurance.
- (*3) These amounts include assets and liabilities related to groups of reinsurance contracts held by Hana Life Insurance.
- (*4) Insurance contract margin included in insurance (reinsurance) contract assets and insurance (reinsurance) contract liabilities are separately disclosed.

The preparation status and plans for the adoption of K-IFRS 1117 of Hana Insurance Co., Ltd., a subsidiary of the Group, are as follows.

Hana Insurance Co., Ltd. first formed the K-IFRS17 introduction preparation task force team in May 2017 to introduce K-IFRS 1117. Hana Insurance Co., Ltd. has been operating IFRS 17 promotion team which consists of eight members.

In May 2017, Hana Insurance Co., Ltd. initiated the establishment of an actuarial system for calculating insurance contract liabilities through the Insurance Development Institute consortium and from March 2019, has commissioned an accounting firm to establish the financial closing system and completed in June 2020. As of June 2022, Hana Insurance Co., Ltd. is conducting a pilot operation of the system and verifying its adequacy, and plans to continuously upgrade the system by 2022 and establish an overall internal accounting management system. As of December 2022, Hana Insurance Co., Ltd. plans to establish the internal controls over the financial reporting while stabilizing the accounting system to respond to parallel financial closing.

In addition, Hana Insurance Co., Ltd. plans to provide internal and external training to the related employees on accounting actuary, impact and settlement process related to K-IFRS 1117, and prepare an in-depth training course in 2022. The Group's management reported the preparations for introduction four times in 2021 and two times in 2022 to midlevel management.

Specific preparations for introduction and future plans are as follows

| Mainactivity | Preparation (December 31, 2022) | Future plans |
|---|--|---|
| Organizedatask force | -OnMay, 2017, organization of TaskForceTeam(currently named IFRS 17 promotion team, eight members present) | -Continuous operation of IFRS 17 promotion team |
| Establishment of financial closing system | On May, 2017, system development On February, 2022, completion of system development, pilot operation in progress On November, 2022, initiate preaudit | - Systemenhancement/preaudit - Establishment of internal control over the financial reporting |
| Employeetraining | Conducted training for major accounting practitioners Training for executives and department heads | -Intensive course |
| Management reporting | -Systemdevelopment, reporting financial impact | -Report on all matters related to parallel financial closing |

Hana Insurance Co., Ltd. is conducting parallel financial closing before the adoption of K-IFRS 1117 for the year ended December 31, 2022. A preaudit is being conducted by Hana Insurance Co., Ltd.'s external auditor as of December 31, 2022.

The results of the financial impact assessment according to the adoption of K-IFRS 1117 in the consolidated financial statements for the year ended December 31, 2022, prepared using the financial closing system are as follows.

When applying K-IFRS 1117, Hana Insurance Co., Ltd.'s assets, liabilities and equity in the statements of financial position as of December 31, 2022 are expected to increase $\mbox{$W$}1,478,236$ million, $\mbox{$W$}1,058,272$ million and $\mbox{$W$}419,963$ million, respectively. Hana Insurance Co., Ltd.'s net income and comprehensive income in the statements of comprehensive income for the year ended December 31, 2022 are expected to decrease $\mbox{$W$}46,329$ million and $\mbox{$W$}1,929$ million, respectively.

Compared to applying K-IFRS 1104, assets and liabilities decreased by $\mbox{$W$63,950$}$ million and $\mbox{$W$194,912$}$ million, respectively; equity increased by $\mbox{$W$130,961$}$ million; and net income and comprehensive income increased by $\mbox{$W$23,915$}$ million and $\mbox{$W$98,849$}$ million, respectively. (The results of this analysis are subject to change depending on additional information available in the future and economic conditions)

The detailed results of financial impact assessment according to the adoption of K-IFRS 1117 are as follows (Korean won in millions):

<Statement of the financial position>

| Accounts | The amount in accordance with K-IFRS 1104(A) (*1) | Accounts | The amount in accordance with K-IFRS 1117(B) (*2) | Effect(B-A) |
|----------------------------------|---|----------------------------------|---|-------------|
| Total assets | 1,542,186 | Total assets | 1,478,236 | (63,950) |
| Financial assets | 1,171,130 | Financial assets | 1,285,629 | 114,499 |
| Non-financial assets | 205,827 | Non-financial assets | 160,589 | (45,238) |
| Insurance contract assets | _ | Insurance contract assets | 2,829 | 2,829 |
| Reinsurance contract assets | 31,722 | Reinsurance contract assets | 29,189 | (2,533) |
| Special accounts assets | 133,507 | Special accounts assets | - | (133,507) |
| Total liabilities | 1,253,184 | Total liabilities | 1,058,273 | (194,911) |
| Insurance contract liabilities | 1,053,729 | Insurance contract liabilities | 868,357 | (185,372) |
| Reinsurance contract liabilities | _ | Reinsurance contract liabilities | 112 | 112 |
| Investment contract liabilities | _ | Investment contract liabilities | 135,052 | 135,052 |
| Special accounts liabilities | 135,236 | Special accounts liabilities | - | (135,236) |
| Otherliabilities | 64,219 | Otherliabilities | 54,752 | (9,467) |
| Total equity | 289,002 | Total equity | 419,963 | 130,961 |
| Issued capital, etc. | 433,857 | Issued capital, etc. | 433,857 | - |
| OCI | (48,403) | OCI | 24,365 | 72,768 |
| Deficit carried forward | (96,452) | Deficit carried forward | (38,259) | 58,193 |

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<Statements of comprehensive income>

| Accounts | The amount in accordance with K-IFRS 1104(A) (*1) | Accounts | The amount in accordance with K-IFRS 1117(B) (*2) | Effect(B-A) |
|-----------------------------------|---|-----------------------------------|---|-------------|
| Operatingincome | 635,021 | Insurance revenue | 503,999 | (131,022) |
| Premiumincome | 556,411 | Expected claims, etc. | 449,534 | |
| Reinsurance income | 12,829 | Investment income | 53,694 | |
| Investment income | 50,667 | Other operating income | 771 | |
| Other operating income | 15,114 | | | |
| Operating expense | 695,506 | Insurance service expense | 563,229 | (132,277) |
| Provision for policy reserve | 69,855 | Actual claims, etc. | 511,465 | |
| Insurance claim | 398,028 | Investment expense | 44,613 | |
| Reinsurance expense | 30,199 | Other operating expense | 7,151 | |
| Business expenses | 142,631 | | | |
| Depreciation of acquisition costs | 23,211 | | | |
| Investment expense | 16,513 | | | |
| Other operating expense | 15,069 | | | |
| Net operating income | (60,485) | Net operating income | (59,230) | 1,255 |
| Non-operating income | 704 | Non-operating income | 704 | - |
| Non-operating loss | 1,854 | Non-operatingloss | 1,854 | - |
| Income tax expenses | 8,609 | Income tax expenses | (14,051) | (22,660) |
| Net income (loss) | (70,244) | Net income (loss) | (46,329) | 23,915 |
| Other comprehensive income (loss) | (30,534) | Other comprehensive income (loss) | 44,400 | 74,934 |
| Total comprehensive income | (100,778) | Total comprehensive income | (1,929) | 98,849 |

<Statements of cash flow>

| Accounts | The amount in accordance with K-IFRS 1104(A) (*1) | The amount in accordance with K-IFRS 1117(B) (*2) | Effect(B-A) |
|---|---|---|-------------|
| Net cash flows provided by (used in) operating activities | (61,435) | 61,599 | 123,034 |
| Net cash flows used in investing activities | (153,069) | (287,581) | (134,512) |
| Net cash flows provided by financing activities | 139,486 | 139,486 | - |

- (*1) These amounts are based on K-IFRS 1104 Insurance contracts and K-IFRS 1109 Financial instruments.
- (*2) These amounts are based on K-IFRS 1117 Insurance contracts and K-IFRS 1109 Financial instruments.

The value of insurance contract liabilities was adjusted from cost to current value by applying the fair value method for long-term insurance contracts issued before 2016 and the modified retrospective method for long-term insurance contracts issued from 2017 to 2021 and general and automobile insurance contracts before 2021.

When applying the fair value method, the fair value of insurance contracts was calculated based on the insurance contract liability valuation calculated by the K-ICS, and adjusted for certain items.

As a result of analyzing the financial impact related to transition, the insurance contract assets and insurance contract liabilities applied to K-IFRS 1117 as of January 1, 2022 are as follows (Korean won in millions):

(The results of this analysis are subject to change depending on additional information available in the future and economic conditions.)

| Transition _ | | Issuance year of | ssuance year of The effect of the adoption of K-IFR | | |
|-------------------------------|------------|------------------------|---|------------------------------------|-----------------------------------|
| method | Type | insurance contracts | Insurance contract assets(*1) | Insurance contract liabilities(*1) | Insurance contract margin (*2) |
| Fair value method | Longterm | Until 2016 | _ | 387,051 | 4,761 |
| Modified retrospective method | Longterm | 2017–2021 | 4,965 | 105,580 | 74,161 |
| Modified retrospective method | Automobile | Until 2021 | 633 | 293,575 | _ |
| Modified retrospective method | General | Until 2021 | 17,689 | 35,663 | _ |

- (*1) These amounts are the total amount of all components in insurance contract assets and insurance contract liabilities.
- (*2) These amounts include insurance contract margin in insurance contract assets and insurance contract liabilities.

When applying K-IFRS 1117, the value of insurance contract assets and liabilities as of December 31, 2022, amounts to 4.018 million and 4.018 million, respectively. (The results of this analysis are subject to change depending on additional information available in the future and economic conditions.)

(Korean won in millions)

| | | 1117 | | | |
|-----------------|----------------|---|---------|--|-----------------------------------|
| Classification | Total | Insurance contract assets (A) (*1), (*2) | | Reinsurance contract assets (B) (*1), (*3) | |
| Classification | Total (A+B) | Insurance contract Insurance contract assets (A) (*1), (*2) margin (*4) | | Reinsurance contract assets (B) (*1), (*3) | Insurance contract margin (*4) |
| Estimated value | 32,018 | 2,829 | (6,104) | 29,189 | 7,809 |

| | | Assets in K-IFRS 1117 | | | | |
|----------------------|----------------|--|----------------------------------|--|-----------------------------------|--|
| Classification Total | | Insurance contract liabilities(C) (*1), (*2) | | Reinsurance contract liabilities(D) (*1), (*3) | | |
| Oladolii Odulori | Total (C+D) | Insurance contract liabilities(C) (*1), (*2) | Insurance contract margin(*4) | Reinsurance contract liabilities(D) (*1), (*3) | Insurance contract margin (*4) | |
| Estimated value | 868,469 | 868,357 | 113,985 | 112 | - | |

- (*1) The total amount of insurance (reinsurance) contract assets and insurance (reinsurance) contract liabilities includes all components.
- (*2) These amounts include assets and liabilities related to groups of insurance co ntracts issued by Hana Insurance Co., Ltd.
- (*3) These amounts include assets and liabilities related to groups of reinsurance contracts held by Hana Insurance Co., Ltd.
- (*4) Insurance contract margin included in insurance (reinsurance) contract assets and insurance (reinsurance) contract liabilities are separately disclosed.

3-36-2 K-IFRS 1001 Presentation of Financial Statements - Classification of Liabilities as Current or Non-current (Amendment)

The amendments to K-IFRS 1001 affect only the presentation of liabilities as current or non-current in the consolidated statement of financial position and not the amount or timing of recognition of any asset, liability, income or expenses or the information disclosed about those items.

The amendments clarify that the classification of liabilities as current or non-current is based on rights that are in existence at the end of the reporting period; specify that classification is unaffected by expectations about whether an entity will exercise its right to defer settlement of a liability; explain that rights are in existence if covenants are complied with at the end of the reporting period; and introduce a definition of 'settlement' to make clear that settlement refers to the transfer to the counterparty of cash, equity instruments, other assets or services.

The amendments are applied retrospectively for annual periods beginning on or after January 1, 2023, with early application permitted. The amendments are not expected have a material impact on the consolidated financial statements.

3–36–3 K–IFRS 1001 Presentation of Financial Statements and IFRS Practice Statement 2 Making Materiality Judgements – Disclosure of Accounting Policies (Amendment)

The amendments change the requirements in K-IFRS 1001 with regard to disclosure of accounting policies. The amendments replace all instances of the term 'significant accounting policies' with 'material accounting policy information.' Accounting policy information is material if, when considered together with other information included in an entity's financial statements, it can reasonably be expected to influence decisions that the primary users of general– purpose financial statements make on the basis of those financial statements.

The supporting paragraphs in K-IFRS 1001 are also amended to clarify that accounting policy information that relates to immaterial transactions, other events or conditions is immaterial and need not be disclosed.

Accounting policy information may be material because of the nature of the related transactions, other events or conditions, even if the amounts are immaterial. However, not all accounting policy information relating to material transactions, other events or conditions is itself material.

The board has also developed guidance and examples to explain and demonstrate the application of the 'four-step materiality process' described in IFRS Practice Statement 2.

The amendments to K-IFRS 1001 are effective for annual periods beginning on or after January 1, 2023, with earlier application permitted and are applied prospectively. The amendments to IFRS Practice Statement 2 do not contain an effective date or transition requirements. The amendments are not expected have material impact on the consolidated financial statements.

3-36-4 K-IFRS 1001 Presentation of Financial Statements(Amendment) – Disclosure of financial liabilities with condition to adjust exercise price

The amendments require disclosure of valuation gains or losses (limited to those recognized in the profit or loss) of the conversion options or warrants (or financial liabilities including them), if all or part of the financial instrument with exercise price that is adjusted depending on the issuer's share price change is classified as financial liability as defined in paragraph 11 (2) of K–IFRS 1032.

The amendments are applied retrospectively for annual periods beginning on or after 1 January 2023, with early application permitted. The amendments are not expected have material impact on the consolidated financial statements.

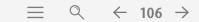
3–36–5 K–IFRS 1008 Accounting Polices, Changes in Accounting Estimates and Errors – Definition of Accounting Estimates (Amendment)

The amendments replace the definition of a change in accounting estimates with a definition of accounting estimates. Under the new definition, accounting estimates are "monetary amounts in financial statements that are subject to measurement uncertainty."

The definition of a change in accounting estimates was deleted. However, the International Accounting Standards Board retained the concept of changes in accounting estimates in the standard with the following clarifications:

- A change in accounting estimate that results from new information or new developments is not the correction of an error
- The effects of a change in an input or a measurement technique used to develop an accounting estimate are changes in accounting estimates if they do not result from the correction of prior-period errors

The amendments are effective for annual periods beginning on or after January 1, 2023 to changes in accounting policies and changes in accounting estimates that occur on or after the beginning of that period, with earlier application permitted. The amendments are not expected to have a material impact on the consolidated financial statements.



3-36-6 K-IFRS 1012 Income Taxes - Deferred Tax related to Assets and Liabilities arising from a Single Transaction (Amendment)

The amendments introduce a further exception from the initial recognition exemption. Under the amendments, an entity does not apply the initial recognition exemption for transactions that give rise to equal taxable and deductible temporary differences.

Depending on the applicable tax law, equal taxable and deductible temporary differences may arise on initial recognition of an asset and liability in a transaction that is not a business combination and affects neither accounting nor taxable profit. For example, this may arise upon recognition of a lease liability and the corresponding right-of-use asset applying K-IFRS 1116 at the commencement date of a lease.

Following the amendments to K-IFRS 1012, an entity is required to recognize the related deferred tax asset and liability, with the recognition of any deferred tax asset being subject to the recoverability criteria in K-IFRS 1012.

The amendments apply to transactions that occur on or after the beginning of the earliest comparative period presented. In addition, at the beginning of the earliest comparative period an entity recognizes:

- A deferred tax asset (to the extent it is probable that taxable profit will be available against which the deductible temporary difference can be utilized) and a deferred tax liability for all deductible and taxable temporary differences associated with:
 - Right-of-use assets and lease liabilities
 - Decommissioning, restoration and similar liabilities and the corresponding amounts recognized as part of the cost of the related asset
- The cumulative effect of initially applying the amendments as an adjustment to the opening balance of retained earnings (or other component of equity, as appropriate) at that date.

The amendments are effective for annual reporting periods beginning on or after January 1, 2023, with earlier application permitted. The amendments are not expected have material impact on the consolidated financial statements.

4. SIGNIFICANT ACCOUNTING ESTIMATES AND JUDGMENTS

For applying accounting policies of the Group's consolidated financial statements, management is required to make judgments, estimates and assumptions that affect the amount of assets and liabilities that are difficult to identify through other resources. The estimates and assumptions are based on the other factors considered that they are related to historical experience. Actual results may differ from these estimations.

Management reviews these estimates and assumptions regularly. The effect of a change in an accounting estimate is recognized in profit or loss in the period of the change if the change affects that period only and the effect of a change in an accounting estimate is recognized in profit or loss in the period of the change and the future periods if the change affects both.

In the process of applying the Group's accounting policies, management has made the following judgments that have a significant effect on the amounts recognized in the consolidated financial statements.

4–1 Fair value of financial instruments

Where the fair values of financial assets and financial liabilities recorded in the statement of financial position cannot be derived from active markets, they are determined using a variety of valuation techniques that include the use of mathematical models. The inputs to these models are derived from observable market data where possible, but where observable market data is not available, a degree of judgment is required to establish fair values. The judgments include considerations of liquidity and model inputs, such as volatility for longer-dated derivatives and discount rates, prepayment rates and default rate assumptions for asset-backed securities.

4-2 Impairment losses on financial assets

The Group recognizes impairment losses on debt instruments, lease receivables, contract assets, loan commitment and financial guarantee contracts that were accounted for at amortized cost, or FVOCI, based on the ECL impairment model using a three-stage model for 12-month ECLs or lifetime ECLs based on changes in credit risk since initial recognition of financial assets.

| | Classification | Loss allowance | |
|--------|--|---|--|
| STAGE1 | Credit risk on a financial instrument has not increased significantly since initial recognition. | 12-month ECL: ECLs that result from default events that are possible within 12 months after the reporting date | |
| STAGE2 | Credit risk on a financial instrument has increased significantly since initial recognition. | Lifetime ECL: ECLs that result fromall possible default events over the expected life of the financial instrument | |
| STAGE3 | Credit-impaired | | |

The cumulative changes in lifetime ECLs since initial recognition are recognized as loss allowance for a financial asset that is considered credit-impaired at initial recognition.

4–3 Provision for severance and retirement benefits

The cost of providing benefits under the defined benefit plans is determined separately for each plan using the projected unit credit method. Actuarial assumptions were made for the discount rate, the overall expected rates of return on assets and an increase in the future pay rate. Severance and retirement benefits include significant uncertainties in the estimates due to the long duration of the period.

4–4 Impairment of non–financial assets

The Group assesses at the end of the reporting period whether there is any indication that a non-financial assets may be impaired. The Group tests an intangible asset with an indefinite useful life for impairment annually or if any such indication exists. The Group tests an intangible asset with definite useful life for impairment if any such indication exists. Management estimates future cash flow associated with an asset or

a CGU and selects the adequate discount rate to compute present value of future cash flow.

4-5 Income taxes

There are uncertainties that exist on the calculation of the final tax effect since the Group's tax expense on taxable income is calculated based on the tax laws and interpretations of tax authorities in numerous countries. In addition, there has been various transactions and tax accounting methods that have made computing the final tax expenses for the period uncertain. Significant judgment is required when determining the estimation of corporate taxes in various countries. The contingent liability from any future tax assessments is based on the estimates of the likelihood of additional taxes imposed and has been included in the Group's consolidated financial statements for the current period. When the finalized tax expense assessments are different from the appropriated amounts, the differences, if any, are recognized in current deferred tax assets, liabilities and expenses for the period.

4-6 Estimated amount for IBNR

Incurred but not reported ("IBNR") is the sum of the estimated insurance amount of accidents that have not been reported to the Group, but have already occurred and the estimated insurance amount to be additionally paid due to the resumption of payment claims. The Group calculates the estimated amount by applying statistical method to the calculation units prescribed by the Insurance Business Supervision Enforcement Regulations and accounts for the reserve within the insurance contract liability. IBNR according to the statistical method requires significant estimation in determining the application methodology (paid loss development method, incurred loss development method, Bornhuetter–Ferguson method, etc.) for each accident year and determining the progress coefficient.

5. METHODS FOR MEASURING THE FAIR VALUE OF FINANCIAL ASSETS AND FINANCIAL LIABILITIES

The following standards are applied in measuring the fair value of financial assets and financial liabilities

- a. Financial assets and financial liabilities traded in active markets at the reporting date is based on their quoted market price or dealer price quotations (bid price for long positions and ask price for short positions), without any deduction for transaction costs.
- b. For all other financial instruments not traded in an active market, the fair value is determined by using appropriate valuation techniques. Valuation techniques include the discounted cash flow method, comparison to similar instruments for which market observable prices exist, options pricing models, credit models and other relevant valuation models. These techniques incorporate the Group's estimate of assumptions that a market participant would make when valuing the instruments. Valuation techniques that provide reliable estimates on mark-to-market prices are applied.
- c. When determining fair value by the use of valuation techniques, comparison of current market transaction of another instrument that is substantially the same to the financial instrument needs to be objectively substantiated or inclusion of variables in the marketable data must be performed. Not all the significant market variables are observable and therefore in determining fair value, reasonable estimates or assumptions are required.

d. Investments in equity instruments that do not have a quoted market price in an active market and whose fair value cannot be reliably measured and derivatives that are linked to and must be settled by delivery of such unquoted equity instruments, which are measured at cost, will be accounted for using the cost method.

5–1 Fair value hierarchy of financial instruments

The fair value hierarchy of financial assets and liabilities as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Observition | Fair | Fair value hierarchy(*) | | |
|---|------------|-------------------------|------------|------------|
| Classification | Level 1 | Level 2 | Level 3 | Total |
| Financial assets: | | | | |
| Financial assets measured at FVTPL | | | | |
| Debt securities | 5,381,402 | 22,316,229 | 6,753,229 | 34,450,860 |
| Equity securities | 112,589 | 30,953 | 1,320,312 | 1,463,854 |
| Derivative assets held for trading | 89,534 | 12,394,288 | 149,404 | 12,633,226 |
| Loans | - | - | 1,227,865 | 1,227,865 |
| Others | - | _ | 1,383,000 | 1,383,000 |
| Subtotal | 5,583,525 | 34,741,470 | 10,833,810 | 51,158,805 |
| Financial assets designated at FVOCI: | | | | |
| Debt securities | 11,829,606 | 24,449,668 | - | 36,279,274 |
| Equity securities | 339,744 | 34 | 751,126 | 1,090,904 |
| Subtotal | 12,169,350 | 24,449,702 | 751,126 | 37,370,178 |
| Derivative assets used for hedging | _ | 32,312 | _ | 32,312 |
| Merchant banking accounts asset | - | 4,631,361 | - | 4,631,361 |
| Total | 17,752,875 | 63,854,845 | 11,584,936 | 93,192,656 |
| Financial liabilities: | | | | |
| Financial liabilities measured at FVTPL | | | | |
| Derivative liabilities heldfortrading | 252,393 | 13,161,037 | 834,646 | 14,248,076 |
| Securities lent | 945,673 | 109,301 | _ | 1,054,974 |
| Subtotal | 1,198,066 | 13,270,338 | 834,646 | 15,303,050 |
| Financial liabilities designated as measured at FVTPL | 6,480 | 4,853,499 | 7,857,529 | 12,717,508 |
| Derivative liabilities used for hedging | - | 515,571 | 30,837 | 546,408 |
| Total | 1,204,546 | 18,639,408 | 8,723,012 | 28,566,966 |

^(*) The Group recognizes a change in level at the beginning of the reporting period when the event or change in circumstances that causes the transfer between levels occurs.

<December 31, 2021>

| Ole selfice the | Fair | Fair value hierarchy(*) | | |
|---|------------|-------------------------|------------|------------|
| Classification | Level 1 | Level 2 | Level 3 | Total |
| Financial assets: | | | | |
| Financial assets measured at FVTPL | | | | |
| Debt securities | 3,216,070 | 18,881,802 | 5,818,785 | 27,916,657 |
| Equity securities | 329,917 | 32,783 | 1,267,151 | 1,629,851 |
| Derivative assets held for trading | 67,335 | 5,003,189 | 218,451 | 5,288,975 |
| Loans | - | - | 1,898,878 | 1,898,878 |
| Others | - | - | 1,983,924 | 1,983,924 |
| Subtotal | 3,613,322 | 23,917,774 | 11,187,189 | 38,718,285 |
| Financial assets designated at FVOCI: | | | | |
| Debt securities | 13,410,125 | 24,975,265 | _ | 38,385,390 |
| Equity securities | 326,532 | 50 | 761,557 | 1,088,139 |
| Subtotal | 13,736,657 | 24,975,315 | 761,557 | 39,473,529 |
| Derivative assets used for hedging | - | 77,507 | _ | 77,507 |
| Merchant banking accounts asset | - | 4,741,939 | _ | 4,741,939 |
| Total | 17,349,979 | 53,712,535 | 11,948,746 | 83,011,260 |
| Financial liabilities: | | | | |
| Financial liabilities measured at FVTPL | | | | |
| Derivative liabilities held for trading | 167,633 | 4,866,443 | 855,358 | 5,889,434 |
| Securities lent | 859,252 | 23,614 | _ | 882,866 |
| Subtotal | 1,026,885 | 4,890,057 | 855,358 | 6,772,300 |
| Financial liabilities designated as measured at FVTPL | 364,970 | 1,910,365 | 6,829,288 | 9,104,623 |
| Derivative liabilities used for hedging | _ | 109,475 | 9,124 | 118,599 |
| Total | 1,391,855 | 6,909,897 | 7,693,770 | 15,995,522 |

(*) The Group recognizes a change in level at the beginning of the reporting period when the event or change in circumstances that causes the transfer between levels occurs.

The Group uses the following hierarchy for determining and disclosing the fair value of financial instruments by valuation technique:

- a. Level 1: Quoted (unadjusted) prices in active markets for similar assets or liabilities
- b. Level 2: Other techniques for that all inputs which have a significant effect on the recorded fair value are observable, either directly or indirectly
- c. Level 3: Techniques that use inputs that have a significant effect on the recorded fair value that are not based on observable market data

Fair value, valuation method and input variables used to measure fair value of financial instruments classified as fair value hierarchy Level 2 as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

(Korean won in millions)

| Classification | Fairvalue | Valuation method | Inputvariable |
|---|------------|--|---|
| Financial assets: | | | |
| Financial assets measured at FVTPL | | | |
| Debt securities | 22,316,229 | Black-Scholes model, Hull-White 1 factor model, DCF model, Gaussian 1 factor model, Net asset value model, etc. | Volatility, Discount rate, Stock price, exchange rate, interest rate, CDS premium, price of underlying asset such as bond, stock, etc. |
| Equity securities | 30,953 | Hull-White Monte Carlo Simulation, Market approach | Discount rate, linterest rate curve, quoted price in a market that is not active |
| Derivative assets held for trading | 12,394,288 | Black-Scholes model, Hull-White 1 factor model, Black model, DCF Model, Gaussian 1 factor model, etc. | Volatility, discount rate, stock price, exchange rate, interest rate, CDS premium, yield curve of swap, volatility of swaption, yield curve of currency, etc |
| Subtotal | 34,741,470 | | |
| Financial assets measured at FVOCI | | | |
| Debt securities | 24,449,668 | DOF model | Discount rate, etc. |
| Equity securities | 34 | Market price | Stockprice |
| Subtotal | 24,449,702 | | |
| Derivative assets used for hedging | 32,312 | Hull-White 1 factor model | Exchange rate, yield curve of swap, volatility of swaption, yield curve of currency |
| Merchant banking account asset | 4,631,361 | DOF model | Discount rate |
| Total | 63,854,845 | | |
| Financial liabilities: | | | |
| Financial liabilities measured at FVTPL | | | |
| Derivative liabilities heldfor trading | 13,161,037 | Black-Scholes model, Hull-White 1 factor model, DCF model, Black model, Gaussian 1 factor model, etc. | Volatility, discount rate, stock price, exchange rate, interest rate, CDSprerrium, yield curve of swap, volatility of swaption, yield curve of currency, index, etc |
| Securities sold | 109,301 | DOF model | Discount rate |
| Subtotal | 13,270,338 | | |
| Financial liabilities designated as measured at FVTPL | 4,853,499 | Black-Scholes model, Hull-White 1 factor model, DCF model, Gaussian 1 factor model, etc | Volatility, discount rate, stock price, exchange rate, interest rate, CDS premium, yield curve of swap, volatility of swaption, etc. |
| Derivative liabilities used for hedging | 515,571 | Hull-White 1 factor model | Exchange rate, yield curve of swap, volatility of |
| | | | swaption, yield curve of currency, interest rate |
| Total | 18,639,408 | | |

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<December 31, 2021>

(Korean won in millions)

| Classification | Fair value | Valuation method | Input variable |
|---|------------|--|--|
| Financial assets: | | | |
| Financial assets measured at FVTPL | | | |
| Debt securities | 18,881,802 | Black-Scholes model, Hull-White 1 factor model, DCF model, Gaussian 1 factor model, Net asset value model, etc. | Volatility, discount rate, stock price, exchange rate, interest rate, CDS premium, price of underlying asset such as bond, stock, etc. |
| Equity securities | 32,783 | Hull-White Monte Carlo Simulation | Discount rate, etc. |
| Derivative assets held for trading | 5,003,189 | Black-Scholes model, Hull-White 1 factor model, Black model, DCF model, Gaussian 1 factor model, etc. | Volatility, discount rate, stock price, exchange rate, interest rate, CDS premium, yield curve of swap, volatility of swaption, yield curve of currency etc. |
| Subtotal | 23,917,774 | | |
| Financial assets measured at FVOCI | | | |
| Debt securities | 24,975,265 | DOF model | Discount rate, etc. |
| Equity securities | 50 | Market price | Stock price |
| Subtotal | 24,975,315 | | |
| Derivative assets used for hedging | 77,507 | Hull-White 1 factor model | Exchange rate, yield curve of swap, volatility of swaption, yield curve of currency, etc. |
| Merchant banking account asset | 4,741,939 | DOF model | Discount rate |
| Total | 53,712,535 | | |
| Financial liabilities: | | | |
| Financial liabilities measured at FVTPL | | | |
| Derivative liabilities held for trading | 4,866,443 | Black-Scholes model, Hull-White 1 factor model, DCF model, Black model, Gaussian 1 factor model, etc. | Volatility, discount rate, stock price, exchange rate, interest rate, CDSpremium, yield curve of swap, volatility of swaption, yield curve of currency etc. |
| Securities sold | 23,614 | DOF model | Discount rate |
| Subtotal | 4,890,057 | | |
| Financial liabilities designated as measured at FVTPL | 1,910,365 | Black-Scholes model, Hull-White 1 factor model, DCF model, Gaussian 1 factor model, etc | Volatility, discount rate, stock price, exchange rate, interest rate, CDS premium, yield curve of swap, volatility of swaption, etc. |
| Derivative liabilities used for hedging | 109,475 | Hull-White 1 factor model | Exchange rate, yield curve of swap, volatility of swaption, yield curve of currency etc. |
| Total | 6,909,897 | | |

Fair value, valuation method, input variables and significant unobservable input variables information used to measure fair value of financial instruments classified as fair value hierarchy Level 3 as of December 31, 2022 and 2021, are as follows (Korean won in millions):



<December 31, 2021>

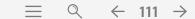
| _ | | | | Significant | | |
|---|------------|--|---|---|---|--|
| Classification | Fair value | Valuation method | Input variable | unobservable inputs used in the fair value measurement | Range | The effect of changes in unobservable inputs on fair value |
| Financial assets: | | | | | | |
| Financial assets measured at FVTPL | | | | | | |
| Debt securities | 6,753,229 | DCF model, net assets model, income approach, Black-Scholes model, Hull-White 1 factor model, Guassian 1 factor model, , etc. | Volatility, exchange rate, interest rate, CDS premium, correlation, discount rate, stock price, liquidating value, Volatility and price of underlying asset, etc | Volatility, correlation, discount rate , liquidating value, price of underlying ass et. | Volatility: 0~100% Correlation: -1-+1 Discount rate: 5.68-6.88% Liquidating value: 0 | Volatility of underlying asse ts: Positive Correlation: Positive Discount rate: Negative Liquidating value: Positive Some cases show an opposite effect as above |
| Equity securities | 1,320,312 | DCF model, income approach, Multiple, Monte Carlo Simulation model, Hull-White 1 factor model, etc. | Growth rate, liquidating rate, discount rate, volatility, stock price, interest rate, striking price, liquidating value, etc | Volatility, Growth rate, Discount rate, I iquidating rate, liquidating value, etc | Volatility: -1-1% Discount rate: 0.15-20.14% Liquidating rate: -1-1% Growth rate:0-2% Liquidating value: 0 | Volatility of underlying assets: Positive Growth rate: Positive Liquidating rate: Positive Discount rate: Negative Liquidating value: Positive |
| Derivative assets held for trading | 149,404 | Black-Scholes model, Hull-White 1 factor model, Hull-White 2 factor model, DOF model, Gaussian 1 factor model, etc. | Exchange rate, yield curve of swap, volatility of swaption, correlation between valuation models , volatility, discount rate, stock price, interest rate, CDS premium, correlation, etc | Volatility, correlation, regression coefficient related to interest rate, spread of underlying assets, recovery rate related to credit | Volatility:0.06-65.6 % Correlation:-64.51 -+89.28% Regression coefficient: 1-10% Spread of underlying assets: 0.061-4.281% Recovery rate: 0-40% | Volatility: Positive Correlation: Positive Changes in correlation because of products and market condition is positive or negative Some cases show an opposite effect as above |
| Loans | 1,227,865 | DOF model, etc. | Discount rate, etc. | Discount rate | Discount rate: 0- 10.05% | Discount rate: Negative |
| Others | 1,383,000 | DOF model, etc. | Discount rate, etc. | Discount rate, etc. | | |
| Subtotal | 10,833,810 | | | | | |
| Financial assets measuredat FVOCI | | | | | | |
| Equity securities | 751,126 | DCF model, binominal model, discounted shareh -olders' cash flow model, Peer group analysis, etc. | Growth rate, discount rate, liquidating value, volatility and price of underlying asset, etc. | Growth rate, discount rate, liquidating val- ue, volatility of underlying asset | Growth rate: 0-1% Discount rate: 0.15 -20.14% Liquidating value: 0 Volatility of underlying asset: 21.98-46.53% | Growth rate: Positive Discount rate: Negative Liquidating value: Positive Volatility of underlying asset: Positive |
| Total | 11,584,936 | | | | | |
| Financial liabilities: | | | | | | |
| Financial liabilities measured at FVTPL | | | | | | |
| | | | | Volatility, correlation, | Volatility: 0.06-65.6 % | |

| | \equiv | Q | \leftarrow | 110 | \rightarrow |
|--|----------|---|--------------|-----|---------------|
|--|----------|---|--------------|-----|---------------|

| Classification | Fair value | Valuation method | Input variable | Significant unobservable inputs used in the fair value measurement | Range | The effect of changes in unobservable inputs on fair value |
|---|------------|---|--|--|---|--|
| Derivative liabilities held for trading | 834,646 | Black-Scholes model, Hull-White 1 factor model, Hull-White 2 factor model, DCF model, Gaussian 1 factor model, etc. | Discount rate, swap yield curve, volatility of swaption, correlation between valuation models , volatility, discount rate, stock price, CDS premium, correlation, etc. | regression coefficient related to interest rate, spread of underlying assets, recovery rate related to credit | Correlation: -64.51 +89.28% Regression coefficient: 1-10% Spread of underlying assets: 0.061-4.281% Recovery rate: 0- 40% | Volatility: Positive Correlation: Positive Changes in correlation because of products and market condition is positive or negative Some cases show an opposite effect as above |
| Financial liabilities designated as measured at PVTPL | 7,857,529 | DOF model, Black- Scholes model, Hull- White 1 factor model, Gaussian 1 factor model, etc. | Volatility, discount rate, stock price, exchange rate, interest rate, CDS premium, correlation, etc. | Volatility, correl ation, regressi on coefficient, spread of unde rlying assets, r ecovery rate | Volatility: 0.06-65.6 % Correlation: -64.51 +89.28% Regression coefficient: 1-10% Spread of underlying assets: 0.061-4.281% Recovery rate: 0-40% | Volatility: Positive Correlation: Positive Some cases show an opposite effect as above |
| Derivative liabilities used for hedging | 30,837 | Hull-White 2 factor model | Swap yield curve, volatility of swaption, correlation between valuation models, exchange rate, etc. | Correlation between KRW Interest Rate Swap("IRS") rates, correlation between USD IRS rates | Correlation between KRW IRS rates, correlation between USD IRS rates: 39.00–96.00% | Fair value increase or decrease based on the changes in correlation by the effect of trading instruments and market status |
| Total | 8,723,012 | | | | | |

| Classification | Fair value | Valuation method | Input variable | Significant unobservable inputs used in the fair value measurement | Range | The effect of changes in unobservable inputs on fair value |
|------------------------------------|------------|--|---|---|---|--|
| Financial assets: | | | | | | |
| Financial assets measured at FVTPL | | | | | | |
| Debt securities | | DOF model, net assets model, income approach, Black-scholes model, Hull-White 1 factor model, Guassian 1 factor model, , etc. | Volatility, exchange rate, interest rate, interest rate, cDS premium, correlation, discount rate, stock price, liquidating value, etc | Volatility, correlation, discount rate , liquidating value, etc. | Volatility: 0-100% Correlation: -1-+1 Discount rate: 5.13-21.37% Liquidating value: 0 | Volatility of underlying assets: Positive Correlation: Positive (Negative in some cases) Discount rate: Negative Liquidating value: Positive |
| | | DCF model, income approach, Multiple, Monte | Growth rate, liquidating rate, discount rate, | Volatility, growth rate, discount rate, | Volatility: -1-1% Discount rate: 10.25-25.46% | Volatility of underlying assets: Positive Growth rate: Positive |

| | | | | Cimpificant | | |
|---|------------|---|---|--|---|--|
| Classification | Fair value | Valuation method | Input variable | Significant unobservable inputs used in the fair value measurement | Range | The effect of changes in unobservable inputs on fair value |
| Equity securities | 1,267,151 | Carlo Simulation model, Hull-White 1 factor model, etc. | volatility, stock price, interest rate, striking price, liquidating value, etc | liquidating rate, liquidati- ng value, etc | Liquidating rate: -1-1% Growth rate: 0-1% Liquidating value: 0 | Liquidating rate: Positive Discount rate: Negative Liquidating value: Positive |
| Derivative assets held-for- trading | 218,451 | Black-Scholes model, Hull-White 1 factor model, Hull-White 2 factor model, DCF model, Gaussian 1 factor model, etc. | Exchange rate, yield curve of swap, volatility of swaption, correlation between valuation models , volatility, discount rate, stock price, interest rate, CDS premium, correlation, etc | Volatility, correlation, correlation between USD IRS rate, etc | Volatility: 0-100% Correlation:-1-+1 Correlation between USD IRS rate: 53.00-79,00% | Volatility: Positive Correlation: Positive (Negative in some cases) Fair value increase or decrease based on the changes in correlation by the effect of trading instruments and market status |
| Loans | 1,898,878 | Least Square Monte Carlo method ("LSMC"), DOF model, etc. | Volatility and price of underlying asset, discount rate, etc. | Price of underlying asset, volatility of underlying asset, discount rate , etc. | Volatility of underlying asset: 17.89-34.16% Discount rate: 3.84 -10.53% | Volatility: Positive Discount rate: Negative |
| Others | 1,983,924 | DCF model, etc. | Discount rate, etc. | Discount rate , etc. | | |
| Subtotal | 11,187,189 | | | | | |
| Financial assets measured at FVOCI | | | | | | |
| Equity securities | 761,557 | DCF model, market approach, net asset approach, LSMC, Income approach, multiple, binominal trees, etc | Growth rate, discount rate, volatility and price of un derlying asset etc. | | Growth rate: 0.00– 2.0% Discount rate: 9.90–18.02% Volatility of underlying asset: 23.32–25.49% | Growth rate: Positive Discount rate: Negative Volatility of underlying asset: Positive |
| Total | 11,948,746 | | | | | |
| Financial liabilities: | | | | | | |
| Financial liabilities measured at FVTPL | | | | | | |
| Derivative liabilities held- for- trading | 855,358 | Black-Scholes model, Hull-White 1 factor model, Hull-White 2 factor model, DOF model, Gaussian 1 factor model, etc. | Exchange rate, yield curve of swap, volatility of swaption, correlation between valuation models , volatility, discount rate, stock price, interest rate, CDS premium, correlation, etc | Volatility, correlation, correlation between USD IRS rate, etc | Volatility: 0-100% Correlation:-1-+1 Correlation between USD IRS rate: 53.00-79.00% | Volatility: Positive Correlation: Positive (Negative in some cases) Fair value increase or decrease based on the changes in correlation by the effect of trading instruments and market status |
| Financial liabilities designated as measured at FVTPL | 6,829,288 | DCF model, Black -Scholes model, Hull -White 1 factor model, Gaussian 1 factor model, etc. | Volatility, discount rate, stock price, exchange rate, interest rate, CDS premium, correlation, etc. | Volatility, correlation | Volatility: 0-100% Correlation: -1-+1 | Volatility: Positive Correlation: Positive (Negative in some cases) |
| Derivative liabilities used for | | | Swap yield curve, volatility of swaption, | Correlation between KRW IRS rates, cor | Correlation between KRW and | Fair value increase or decrease based on the changes in correlation by th |



| Classification | Fairvalue | Valuation method | Inputvariable | Significant unobservable inputs used in the fair value measurement | Range | The effect of changes in unobservable inputs on fair value |
|----------------|-----------|---------------------------|---|---|-------|--|
| hedging | 9,124 | Hull-White 2 factor model | correlation between valuation models, exchange rate | relation between USDIRS rates | | effect of trading instruments and market status |
| Total | 7,693,770 | | | | | |

5-2 Changes in the fair value of Level 3

Changes in the fair value of Level 3 financial instruments for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| | Financial assets measured at FVTPL | | | Cincondial accepta | Financial liabilities | Net derivative instruments | | |
|---|------------------------------------|-------------------|-------------|--------------------|---------------------------------------|----------------------------------|----------------------|----------------------|
| Classification | Debt securities | Equity securities | Loans | Others | Financial assets measured at FVOCI | designatedas measuredat FVTPL | Held-for -trading | Held-for -hedging |
| January 1, 2022 | 5,818,785 | 1,267,151 | 1,898,878 | 1,983,924 | 761,557 | 6,829,288 | (636,907) | (9,124) |
| Increase due to business combination(*) | 41,528 | 246,565 | 4,383 | - | - | - | - | - |
| Transfer from Level 1 to Level 3 | - | 10 | _ | - | - | - | - | - |
| Transfer from Level 3 to Level 1 | (15,584) | - | - | - | - | - | - | - |
| Netincome | 40,016 | (65,321) | (52,572) | 32,843 | _ | (388,970) | (478,511) | (21,713) |
| Other comprehensive income | - | - | _ | - | (12,389) | (8,756) | - | - |
| Buy/issue | 3,444,522 | 801,593 | 2,512,417 | 4,754,506 | 2,499 | 3,874,305 | 1,069 | - |
| Sell/settlement | (2,419,176) | (708,103) | (3,135,241) | (5,388,273) | (541) | (2,789,238) | 152,345 | - |
| Others | (156,862) | (221,583) | _ | - | - | 340,900 | 276,762 | - |
| December 31, 2022 | 6,753,229 | 1,320,312 | 1,227,865 | 1,383,000 | 751,126 | 7,857,529 | (685,242) | (30,837) |

(*) It includes the changes of subsidiaries incorporated as of credit provision or purchase agreements.

<December 31, 2021>

| | Fina | ancial assets me | easuredat FVTF | PL . | Financial assets | Financial liabilities | Net derivative instruments | |
|---|--------------------|-------------------|----------------|-----------|------------------|----------------------------------|----------------------------|----------------------|
| Classification | Debt securities | Equity securities | Loans | Others | measuredat FVOCI | designatedas measuredat FVTPL | Held-for -trading | Held-for -hedging |
| January 1, 2021 | 5,298,892 | 1,178,768 | 1,492,111 | 1,685,297 | 810,710 | 8,079,634 | (518,987) | 152 |
| Increase due to business combination(*) | 14,948 | 485 | - | - | - | - | _ | _ |
| Netincome | 56,253 | (36,416) | 64,082 | 18,678 | _ | 209,454 | 106,357 | (9,276) |

| | Financial assets measured at FVTPL | | | | 5 | Financial liabilities | Net derivative instruments | |
|----------------------------|------------------------------------|-------------------|-------------|--------------|---------------------------------------|----------------------------------|----------------------------|----------------------|
| Classification | Debt securities | Equity securities | Loans | | Financial assets measured at FVOCI | designatedas measuredat FVTPL | Held-for -trading | Held-for -hedging |
| Other comprehensive income | - | - | _ | - | (38,473) | (2,516) | _ | - |
| Buy/issue | 3,461,049 | 1,252,384 | 2,275,703 | 11,305,075 | 1,018 | 4,808,344 | (377,461) | _ |
| Sell/settlement | (3,015,651) | (1,284,467) | (1,937,195) | (11,025,126) | (11,698) | (6,265,628) | 153,184 | - |
| Others | 3,294 | 156,397 | 4,177 | - | _ | - | _ | _ |
| December31, 2021 | 5,818,785 | 1,267,151 | 1,898,878 | 1,983,924 | 761,557 | 6,829,288 | (636,907) | (9,124) |

(*) It includes the changes of subsidiaries incorporated as of credit provision or purchase agreements.

5–3 Total gains or losses recognized in profit or loss

Total gains or losses recognized in profit or loss, and the line item in profit or loss in which those gains or losses are recognized for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

(Korean won in millions)

| Classification | Total gains or losses recognized in profit or loss | The line itemin profit or loss in which those gains or losses are recognized |
|---|--|--|
| Net gain or loss on financial instruments measured at FVTPL | (523,545) | (557,116) |
| Net gain or loss related to financial instruments designated as measured at FVTPL | 388,970 | 525,648 |
| Net gain or loss related to derivative instruments used for hedging | (21,713) | (21,713) |
| Total | (156,288) | (53,181) |

<December 31, 2022>

| Classification | Total gains or losses recognized in profit or loss | The line itemin profit or loss in which those gains or lo sses are recognized |
|---|--|---|
| Net gain or loss on financial instruments measured at FVTPL | 208,954 | (72,304) |
| Net gain or loss related to financial instruments designated as measured at FVTPL | (209,454) | 97,614 |
| Net gain or loss related to derivative instruments used for hedging | (9,276) | (9,124) |
| Total | (9,776) | 16,186 |

5–4 Transfer into or out among the fair value hierarchy

Transfers into or out of Level 3 of the fair value hierarchy for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|------------------------------------|----------|------|
| TransferfromLevel 3 to Level 1(*1) | (15,584) | _ |
| TransferfromLevel 1 to Level 3(*2) | 10 | _ |

There is transfer out of Level 3 of the fair value hierarchy due to changes in the availability of observable input variables for the financial instruments.

- (*1) This is due to the listing of equity securities.
- (*2) This is due to the delisting of equity securities.

5–5 Sensitivity analysis

The results of the sensitivity analysis in accordance with changes in significant unobservable inputs as of December 31, 2022 and 2021, are as follows.

The subjects of the sensitivity analysis are the financial assets and liabilities classified as Level 3. The effects of changes in fair values, recognized in profit or loss or OCI, are classified into favorable and unfavorable changes. (Korean won in millions):

<December 31, 2022>

(Korean won in millions)

| Classification | Favorable | Unfavorable changes | |
|---|-----------|------------------------|--|
| | changes | Changes | |
| Financial assets: | | | |
| Financial assets measured at FVTPL | | | |
| Debt securities (*1) | 40,112 | (71,550) | |
| Equity securities (*2) | 15,592 | (13,062) | |
| Derivative assets held for trading (*3) | 1,156 | (1,142) | |
| Loans (*4) | 6,557 | (6,276) | |
| Subtotal | 63,417 | (92,030) | |
| Financial assets measured at FVOCI | | | |
| Equity securities (*2) | 30,414 | (19,330) | |
| Total | 93,831 | (111,360) | |
| Financial liabilities: | | | |
| Financial liabilities measuredat FVTPL | | | |
| Derivative liabilities heldfortrading(*3) | 1,281 | (1,298) | |

| Classification | Favorable changes | Unfavorable changes |
|---|-------------------|------------------------|
| Loans (*4) | 6,557 | (6,276) |
| Subtotal | 63,417 | (92,030) |
| Financial assets measured at FVOCI | | |
| Equity securities (*2) | 30,414 | (19,330) |
| Total | 93,831 | (111,360) |
| Financial liabilities: | | |
| Financial liabilities measured at FVTPL | | |
| Derivative liabilities heldfor trading (*3) | 1,281 | (1,298) |
| Financial liabilities designated as measured at FVTPL | 9,762 | (9,762) |
| Subtotal | 11,043 | (11,060) |
| Derivative liabilities used for hedging (*3) | 6 | (1) |
| Total | 11,049 | (11,061) |

(*1) Favorable changes and unfavorable changes in fair value of debt securities are calculated by changing discount rate (-1.0-1.0%), which is the main unobservable input. Favorable changes and unfavorable changes in fair value of beneficiary securities are calculated by changing discount rate of lease cash flow (-1.0-1.0%) and growth rate of selling price of real estate (-1.0-1.0%), under limited circumstances when it is consisted of real estate. However it is impossible to calculate sensitivity of beneficiary securities based on changes in inputs.

Favorable changes and unfavorable changes in fair value of convertible private bond are calculated by changing the price of underlying assets (-10.0-10.0%) and volatility of underlying assets (-10.0-10.0%), which is the main unobservable input.

- (*2) Changes in fair value of equity securities are calculated by changing growth rate (0.0–1.0%) and discount rate(–1.0–20.14%), which are main unobservable inputs.
- (*3) ① Correlation between rates of IRS of KRW, ② Correlation between rates of KRW/USD IRS, ③ Correlation between KRW/USD exchange rate and rate of USD IRS, ④ Correlation between stock price index and individual stock and
- ⑤ Favorable and unfavorable changes are calculated by taking 10% fluctuation of correlation within the valuation model.
- (*4) Favorable changes and unfavorable changes in loans are calculated by changing discount rate (Range: 0.00-10.5%), which are the main unobservable input. Favorable changes and unfavorable changes in the fair value of derivative linked securities and derivatives linked securities sold are calculated by changing volatility of underlying assets (-1-1%), which are the main unobservable input. Positions with mutual risk hedging effects were excluded.

(Korean won in millions)

| Classification | Favorable | Unfavorable |
|---|-----------|-------------|
| Ciassification | changes | changes |
| Financial assets: | | |
| Financial instruments measured at FVTPL | | |
| Debt securities (*1) | 25,765 | (25,522) |
| Equity securities (*2) | 11,089 | (10,521) |
| Derivative assets heldfortrading (*3) | 1,630 | (1,812) |
| Loans (*4) | 6,907 | (6,630) |
| Financial assets designated as measured at FVTPL | 11,054 | (7,761) |
| Subtotal | 56,445 | (52,246) |
| Financial assets measured at FVOCI | | |
| Equity securities (*2) | 29,646 | (22,348) |
| Total | 86,091 | (74,594) |
| Financial liabilities: | | |
| Financial liabilities measured at FVTPL | | |
| Derivative liabilities heldfortrading(*3) | 2,967 | (2,790) |
| Financial liabilities designated as measured at FVTPL | 8,986 | (8,986) |
| Subtotal | 11,953 | (11,776) |
| Derivative liabilities used for hedging (*3) | 287 | (241) |
| Total | 12,240 | (12,017) |

- (*1) Changes in fair value of debt securities are calculated by changing discount rate (-1.0-1.0%), which is the main unobservable input. Favorable changes and unfavorable changes in fair value of beneficiary securities are calculated by changing discount rate of lease cash flow (-1.0-1.0%) and growth rate of selling p rice of real estate (-1.0-1.0%), under limited circumstances when it is consisted of real estate. However it is impossible to calculate sensitivity of beneficiary securities based on changes in inputs.
- (*2) Changes in fair value of equity securities are calculated by changing growth rate (0.0–1.0%) and discount rate, which are main unobservable inputs.
- (*3) ① Correlation between rates of IRS of KRW, ② Correlation between rates of KRW/USD IRS, ③ Correlation between KRW/USD exchange rate and rate of USD IRS, ④ Correlation between stock price index and individual stock and
- (§) Favorable and unfavorable changes are calculated by taking 10% fluctuation of correlation within the valuation model.
- (*4) Changes in loans (convertible private bond, etc.) are calculated by changing the prices and volatility of underlying assets (-10.0-10.0%, -10.0-10.0%, respectively), which are the main unobservable input.

5–6 Financial assets and liabilities that are not measured with fair values

The fair values of financial assets and liabilities whose fair values are not readily determinable as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | Levels of | Total | | |
|--------------------------------------|-----------|-------------|-------------|-------------|
| Ciassification | Level 1 | Level 2 | Level3 | IOIdi |
| Financial assets: | | | | |
| Cashandduefrombanks | 1,923,815 | 43,832,294 | _ | 45,756,109 |
| Securities measuredat amortizedcost | 4,302,775 | 32,405,461 | 100,000 | 36,808,236 |
| Loans measuredat amortizedcost | - | - | 358,037,812 | 358,037,812 |
| Others | _ | - | 14,615,037 | 14,615,037 |
| Total | 6,226,590 | 76,237,755 | 372,752,849 | 455,217,194 |
| Financial liabilities: | | | | |
| Deposits | - | 55,701,960 | 306,521,168 | 362,223,128 |
| Borrowings | - | 14,598,621 | 22,130,474 | 36,729,095 |
| Debentures | - | 53,235,519 | 2,425,633 | 55,661,152 |
| Merchant banking account liabilities | - | - | 3,667,273 | 3,667,273 |
| Others | _ | _ | 33,373,198 | 33,373,198 |
| Total | _ | 123,536,100 | 368,117,746 | 491,653,846 |

<December 31, 2022>

| Classification | Levels of the fair value hierarchy | | | Total |
|-------------------------------------|------------------------------------|------------|-------------|-------------|
| Classification | Level 1 | Level 2 | Level 3 | TOtal |
| Financial assets: | | | | |
| Cashandduefrombanks | 2,139,052 | 29,267,544 | _ | 31,406,596 |
| Securities measuredat amortizedcost | 3,113,948 | 20,312,141 | - | 23,426,089 |
| Loans measuredat amortizedcost | _ | - | 336,125,757 | 336,125,757 |
| Others | _ | _ | 14,924,535 | 14,924,535 |
| Total | 5,253,000 | 49,579,685 | 351,050,292 | 405,882,977 |

| Classification | Levels of the fair value hierarchy | | | Total |
|--------------------------------------|------------------------------------|-------------|-------------|-------------|
| Ciassification | Level 1 | Level 2 | Level 3 | vel 3 |
| Financial liabilities: | | | | |
| Deposits | _ | 51,251,577 | 274,811,131 | 326,062,708 |
| Borrowings | _ | 12,801,006 | 17,358,134 | 30,159,140 |
| Debentures | _ | 51,400,853 | 2,773,206 | 54,174,059 |
| Merchant banking account liabilities | - | _ | 2,908,280 | 2,908,280 |
| Others | _ | - | 28,937,543 | 28,937,543 |
| Total | _ | 115,453,436 | 326,788,294 | 442,241,730 |

Details of fair value, valuation technique, and inputs used to develop those measurements classified into Level 2 assets and liabilities that are not measured at fair value as of December 31, 2022 and 2021, are as follows

(Korean won in millions):

<December 31, 2022>

(Korean won in millions)

| Classification | Fairvalue | Valuationmethod | Inputvariables | |
|-------------------------------------|-------------|-----------------|---|--|
| Financial assets: | | | | |
| Cashandduefrombanks | 43,832,294 | DCFmodel, etc | Discountrate, credit and other spread, etc. | |
| Securities measuredat amortizedcost | 32,405,461 | DCFmodel, etc | Discountrate | |
| Total | 76,237,755 | | | |
| Financial liabilities: | | | | |
| Deposits | 55,701,960 | DCFmodel, etc | Discountrate | |
| Borrowings | 14,598,621 | DCFmodel, etc | Discount rate and other spread | |
| Debentures | 53,235,519 | DCFmodel, etc | Discount rate, other spreadandrate of inherent bankruptcy | |
| Total | 123,536,100 | | | |

<December 31, 2021>

(Korean won in millions)

| Classification | Fairvalue | Valuationmethod | Inputvariables |
|--------------------------------------|-------------------------|-----------------|---|
| Financial assets: | | | |
| Cashandduefrombanks | 29,267,544 | DCFmodel, etc | Discount rate, credit and other spread, etc. |
| Securities measuredat amortized cost | 20 312 1/1 DCEmodel etc | | Discountrate |
| Total | 49,579,685 | | |
| Financial liabilities: | | | |
| Deposits | 51,251,577 | DCFmodel, etc | Discountr ate |
| Borrowings | 12,801,006 | DCFmodel, etc | Discount rate and other spread |
| Debentures | 51,400,853 | DCFmodel, etc | Discount rate, other spreadandrate of inherent bankruptcy |
| Total | 115,453,436 | | |

Fair value, valuation method and input variables of financial instruments disclosed as fair value though it cannot be measured as fair value and the fair value hierarchy Level 3 as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | Fair value | Valuation method | Input variables |
|---------------------------------------|-------------|---------------------|---|
| Financial assets: | | | |
| Securities measured at amortized cost | 100,000 | DCFmodel etc. | Discountrate, etc. |
| Loans measured at amortized cost | 358,037,812 | DCFmodel etc. | Credit and other spread, other spread, rate of advanced |
| Others | 14,615,037 | DCFmodel etc. | Discountrate, etc. |
| Total | 372,752,849 | | |
| Financial liabilities: | | | |
| Deposits | 306,521,168 | DCFmodel etc. | Other spread, rate of advanced redemption, etc. |
| Borrowings | 22,130,474 | DCFmodel etc. | Other spread |
| Debentures | 2,425,633 | DCFmodel etc. | Other spread and rate of inherent bankruptcy |
| Merchant banking account liabilities | 3,667,273 | (*) | |



| Classification | Fair value | Valuation method | Input variables |
|----------------|-------------|---------------------|---------------------|
| Others | 33,373,198 | DCFmodel etc. | Discount rate, etc. |
| Total | 368,117,746 | | |

(*) The carrying amount is considered fair value without applying the DCF method because it is derived from various transactions and has a relatively short or no maturity

<December 31, 2021>

(Korean won in millions)

| Classification | Fairvalue | Valuation method | Input variables |
|--------------------------------------|-------------|---------------------|--|
| Financial assets: | | | |
| Loans measured at amortized cost | 336,125,757 | DCFmodel etc. | Credit and other spread, rate of advanced redemption and discount rate, etc. |
| Others | 14,924,535 | DCFmodel etc. | Discount rate, etc. |
| Total | 351,050,292 | | |
| Financial liabilities: | | | |
| Deposits | 274,811,131 | DCFmodel etc. | Other spread, rate of advanced redemption, and discount rate |
| Borrowings | 17,358,134 | DCFmodel etc. | Other spread and discount rate |
| Debentures | 2,773,206 | DCFmodel etc. | Other spread, rate of inherent bankruptcy, Discount rate, etc. |
| Merchant banking account liabilities | 2,908,280 | (*) | |
| Others | 28,937,543 | DCFmodel etc. | Discount rate, etc. |
| Total | 326,788,294 | | |

(*) The carrying amount is considered fair value without applying the DCF method because it is derived from various transactions and has a relatively short or no maturity

5–7 Deferred Day 1 loss

Changes in deferred Day 1 loss for the years ended December 31, 2022 and 2021 are summarized as follows

(Korean won in millions):

| Classification | 2022 | 2021 |
|-------------------|-----------|-----------|
| Beginning balance | (113,997) | (107,818) |
| Increase | (102,770) | (89,824) |
| Profit or loss | 85,283 | 83,645 |
| Ending balance | (131,484) | (113,997) |

5–8 Financial instruments transfer transaction

The Group has bonds sold under repurchase agreements and securities. In such transactions, financial assets were transferred but the derecognition conditions were not met; so ,the entire transferred assets are continuously recognized in the Group's consolidated statement of financial position. In the case of bonds sold under repurchase agreements, it is sold on the condition that it will be repurchased at a fixed price, and when the Group lends securities held by the Group, ownership of the securities is transferred, but the securities are returned at the end of the rental period, so they retain most of the risks and rewards of ownership.

Transferred financial assets and related liabilities not eliminated as a whole as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | Book value | Fair value | |
|---|------------|------------|--|
| Assets: | | | |
| Financial assets measured at FVTPL(*) | 7,588,843 | 7,588,843 | |
| Financial assets measured at FVOCI (*) | 3,151,670 | 3,151,670 | |
| Securities measured at amortized cost (*) | 900,453 | 839,133 | |
| Liabilities: | | | |
| Securities sold under repurchase agreements | 487,732 | 436,183 | |

(*) The leased financial assets at FVTPL and FVOCI and leased securities measured at amortized cost, of which related liabilities are not recognized, amounting to \$412,492 million \$41,925,345 million and \$416,386 million, respectively, as of December 31, 2022, are included.

<December 31, 2021>

| Classification | Book value | Fair value |
|--|------------|------------|
| Assets: | | |
| Financial assets measured at FVTPL(*) | 6,563,556 | 6,563,556 |
| Financial assets measured at FVOCI (*) | 3,988,042 | 3,988,042 |
| Securities measured at amortized cost (*) | 969,732 | 961,803 |
| Liabilities: | | |
| Securities soldunder repurchase agreements | 8,180,548 | 8,161,707 |

(*) The leased financial assets at FVTPL and FVOCI and leased securities measured at amortized cost, of which related liabilities are not recognized, amounting to 449,906 million 42,538,542 million and 459,586 million, respectively, as of December 31, 2021, are included.

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Transferred financial assets(without deducting allowance for loan losses) and related liabilities not eliminated related to asset securitization as a whole as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | December 31, 2022 | December31,2021 |
|------------------------------------|-------------------|-----------------|
| Assets: | | |
| Financial assets measured at FVTPL | 20,000 | 20,000 |
| Loans measured at amortized cost | 1,291,332 | 1,335,098 |
| Total | 1,311,332 | 1,355,098 |
| Liabilities: | | |
| Securitizedborrowings | 1,321,944 | 1,335,319 |
| Securitized debentures | - | 30,000 |
| Total | 1,321,944 | 1,365,319 |

6. FAIR VALUE OF FINANCIAL INSTRUMENTS

Details of carrying amount and fair value of financial instruments as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Oleanii anii ani | Decembe | er 31, 2022 | December 31, 2021 | | |
|---|-------------|-------------|-------------------|-------------|--|
| Classification | Bookvalue | Fairvalue | Bookvalue | Fairvalue | |
| Financial assets: | | | | | |
| Cash and due frombanks | 45,756,109 | 45,756,109 | 31,406,596 | 31,406,596 | |
| Financial assets measured at FVTPL | 51,158,805 | 51,158,805 | 38,718,285 | 38,718,285 | |
| Financial assets measured at FVOCI | 37,370,178 | 37,370,178 | 39,473,529 | 39,473,529 | |
| Securities measured at amortized cost | 38,928,911 | 36,808,236 | 23,769,017 | 23,426,089 | |
| Loans measured at amortized cost | 361,484,896 | 358,037,812 | 337,349,273 | 336,125,757 | |
| Derivative assets used for hedging | 32,312 | 32,312 | 77,507 | 77,507 | |
| Merchant banking account asset | 4,631,361 | 4,631,361 | 4,741,939 | 4,741,939 | |
| Others | 14,615,387 | 14,615,037 | 14,924,144 | 14,924,535 | |
| Total | 553,977,959 | 548,409,850 | 490,460,290 | 488,894,237 | |
| Financial liabilities: | | | | | |
| Financial liabilities measured at FVTPL | 15,303,050 | 15,303,050 | 6,772,300 | 6,772,300 | |
| Financial liabilities designated as measured at FVTPL | 12,717,508 | 12,717,508 | 9,104,623 | 9,104,623 | |
| Deposits | 362,575,964 | 362,223,128 | 325,149,095 | 326,062,708 | |
| Borrowings | 37,087,312 | 36,729,095 | 30,261,598 | 30,159,140 | |
| Debentures | 56,673,832 | 55,661,152 | 54,476,161 | 54,174,059 | |
| Derivative liabilities used for hedging | 546,408 | 546,408 | 118,599 | 118,599 | |

| Classification | Decembe | er31,2022 | December 31, 2021 | | |
|--------------------------------------|-------------|-------------|-------------------|-------------|--|
| Classification | Bookvalue | Fairvalue | Bookvalue | Fairvalue | |
| Merchant banking account liabilities | 3,667,273 | 3,667,273 | 2,908,280 | 2,908,280 | |
| Others | 33,344,020 | 33,373,198 | 28,951,207 | 28,937,543 | |
| Total | 521,915,367 | 520,220,812 | 457,741,863 | 458,237,252 | |

The following standards are applied in measuring the fair value of financial instruments

- a. Loans measured at amortized cost: Expected cash flows, current market interest rates and discount rates including borrowers' credit risks are factors to calculate the fair value of loans. For lines of credit available for deposit and withdrawal from time to time and loans that have a short-term maturity (less than three months), it is assumed that the carrying amounts approximate to their fair value.
- b. Financial investment assets: The fair value of securities measured at amortized cost are as stated by the market or broker or by credible sources. If none of the information from these entities is usable, quoted market price of financial instruments with similar credit rating, maturity and return on income is used to estimate the fair value
- c. Deposits: For deposits without an explicit maturity period, including deposits with no interests, deposits that have a short-term maturity (less than three months) and deposits with a floating-rate readjustment period of less than three months, it is assumed that the carrying amounts approximate their fair value. The estimated fair value of fixed interest bearing deposits is based on DCFs using prevailing money market interest rates for debts with similar credit risk and maturity.
- d. Borrowings: For borrowings that have a short-term maturity (less than three months) and borrowings with floating-rate readjustment period of less than three months, it is assumed that the carrying amounts approximate to their fair value. The estimated fair value of fixed-interest-bearing borrowings is based on and DCFs using prevailing money market interest rates for debts with similar credit risk and maturity.
- e. Debentures: For quoted debt issued, the fair values are determined based on quoted market prices. For those notes issued where quoted market prices are not available, a DCF model is used based on a current interest rate yield curve appropriate for the remaining term to maturity and credit spreads.

7. CATEGORIES OF FINANCIAL ASSETS AND FINANCIAL LIABILITIES

Categories of financial assets and financial liabilities as of December 31, 2022 and 2021, are as follows (Korean won in millions):

\equiv \bigcirc \leftarrow 117 \rightarrow

<December 31, 2022>

(Korean won in millions)

| Classification | Financial assets me asured at FVTPL | Financial assets measured at FVOCI | Financial assets measuredat amortized cost | Derivatives forhedging | Total |
|--|-------------------------------------|--|--|---------------------------|--------------|
| Financial assets | | | | | |
| Cash and due from banks | _ | - | 45, 756, 109 | - | 45, 756, 109 |
| Financial assets measured at FVTPL | 51, 158, 805 | - | - | - | 51, 158, 805 |
| Financial assets measured at FVOCI | _ | 37,370,178 | - | - | 37,370,178 |
| Securities measured at amortized cost | _ | _ | 38,928,911 | _ | 38,928,911 |
| Loans measured at amortized cost | _ | _ | 361,484,896 | - | 361,484,896 |
| Derivative assets used for hedging | _ | _ | - | 32,312 | 32,312 |
| Merchantbankingaccountasset | 4,631,361 | - | - | - | 4,631,361 |
| Others | _ | - | 14,615,387 | _ | 14,615,387 |
| Total | 55,790,166 | 37,370,178 | 460,785,303 | 32,312 | 553,977,959 |
| Financial liabilities | | | | | |
| Financial liabilities measured at FVTPL | 15,303,050 | - | _ | - | 15,303,050 |
| Financial liabilities designated as measuredat FVTPL | _ | 12,717,508 | - | - | 12,717,508 |
| Deposits | - | - | 362,575,964 | - | 362,575,964 |
| Borrowings | - | - | 37,087,312 | _ | 37,087,312 |
| Debentures | - | - | 56,673,832 | - | 56,673,832 |
| Derivative liabilities used for hedging | - | - | - | 546,408 | 546,408 |
| Merchantbankingaccountliabilities | - | - | 3,667,273 | - | 3,667,273 |
| Others | _ | _ | 33,344,020 | _ | 33,344,020 |
| Total | 15,303,050 | 12,717,508 | 493,348,401 | 546,408 | 521,915,367 |

<December 31, 2022>

(Korean won in millions)

| Classification | Financial assets measured at FVTPL | Financial assets measured at FVOCI | Financial assets measured at amortized cost | Derivatives for hedging | Total |
|--|---------------------------------------|--|---|-------------------------|-------------|
| Financial assets | | | | | |
| Cash and due frombanks | - | - | 31,406,596 | - | 31,406,596 |
| Financial assets measured at FVTPL | 38,718,285 | _ | - | _ | 38,718,285 |
| Financial assets measured at FVOCI | _ | 39,473,529 | - | - | 39,473,529 |
| Securities measured at amortized cost | - | _ | 23,769,017 | - | 23,769,017 |
| Loans measured at amortized cost | - | _ | 337,349,273 | - | 337,349,273 |
| Derivative assets used for hedging | - | - | - | 77,507 | 77,507 |
| Merchant banking account asset | 4,741,939 | - | - | - | 4,741,939 |
| Others | _ | _ | 14,924,144 | - | 14,924,144 |
| Total | 43,460,224 | 39,473,529 | 407,449,030 | 77,507 | 490,460,290 |
| Financial liabilities | | | | | |
| Financial liabilities measured at FVTPL | 6,772,300 | - | - | _ | 6,772,300 |
| Financial liabilities designated as measuredat FVTPL | _ | 9,104,623 | - | - | 9,104,623 |
| Deposits | - | _ | 325,149,095 | - | 325,149,095 |
| Borrowings | _ | _ | 30,261,598 | _ | 30,261,598 |
| Debentures | _ | _ | 54,476,161 | _ | 54,476,161 |

| Classification | Financial liabilities measuredat FVTPL | Financial liabilities designatedas measuredat FVTPL | Financial liabilities measuredat amortizedcost | Derivatives for hedging | Total |
|---|---|---|--|-------------------------|-------------|
| Derivative liabilities used for hedging | - | - | _ | 118,599 | 118,599 |
| Merchant banking account liabilities | - | - | 2,908,280 | _ | 2,908,280 |
| Others | _ | _ | 28,951,207 | - | 28,951,207 |
| Total | 6,772,300 | 9,104,623 | 441,746,341 | 118,599 | 457,741,863 |

8. OFFSETTING FINANCIAL ASSETS AND LIABILITIES

The Group engages in master netting arrangement contracts with counterparties through International Derivatives Swaps and Dealers Association or similar agreements in relation to over-the-counter derivatives and spot exchange transactions. Under this agreement, in the event of a credit case such as the counterparty's bankruptcy, the transaction with the counterparty will be terminated, and at the time of termination, the amount paid or received by each party is offset and paid or received. Bonds purchased under resale agreements and Securities loan transaction has been made offsetting arrangement that is similar derivatives offsetting arrangement

In the case of unpaid domestic exchange bonds and unpaid domestic exchange obligations that deal with bonds and debts arising from domestic exchange transactions between banks, the Group holds the right to netting and pays in a net amount, it is displayed in the consolidated statement of financial position based on the amount after offsetting. Other financial instruments include bonds and debts related to securities traded in the market and are marked on the consolidated statement of financial position based on the amount after netting as they hold legal offsetting rights andpay in net amounts.

8–1 Details of financial assets subject to offsetting, enforceable master netting arrangements and similar agreements as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Gross amounts Classification of recognized | | Gross amounts of recognized | Net amounts of financial assets presented in | Related amount the consolidate financial p | Netamount | |
|--|------------------|---|--|--|-----------------|---------|
| | financial assets | liabilities offset financial statements | | Financial instruments | Cash collateral | |
| Derivatives | 12,482,455 | _ | 12,482,455 | | | |
| Derivative-linked securities | 298,577 | _ | 298,577 | (10,329,187) | (1,493,553) | 958,292 |
| Securities lending | 2,754,223 | _ | 2,754,223 | (2,754,223) | - | _ |
| Bonds purchased underresale agreement | 12,306,702 | - | 12,306,702 | (12,306,702) | _ | _ |
| Unsettledspot exchanges | 5,982,300 | _ | 5,982,300 | (5,980,820) | _ | 1,480 |

| Gross amounts Classification of recognized financial assets | | Gross amounts of recognized financial | Net amounts of financial assets presentedin | Related amounthe consolidat | Netamount | |
|---|--------------------|---------------------------------------|---|-----------------------------|-------------|-----------|
| | liabilities offset | the consolidated financial statements | Financial instruments | Cash collateral | | |
| Domestic exchange settlement debts | 40,695,225 | (36,454,614) | 4,240,611 | - | _ | 4,240,611 |
| Other accounts receivable (*2) | 727,613 | (343,889) | 383,724 | - | _ | 383,724 |
| Total | 75,247,095 | (36,798,503) | 38,448,592 | (31,370,932) | (1,493,553) | 5,584,107 |

(Korean won in millions)

| Classification | Gross amounts of recognized | Gross amounts of recognized | Net amounts of financial assets presentedin | the consolidat | nts not offset in edstatement of osition(*1) | Netamount |
|--|-----------------------------|---------------------------------|---|-----------------------|--|-----------|
| financial assets | | financial liabilities offset | the consolidated financial statements | Financial instruments | Cash collateral | |
| Derivatives | 5,280,303 | _ | 5,280,303 | (3,856,516) | (238,492) | 1,185,295 |
| Securities lending | 2,648,033 | - | 2,648,033 | (2,648,033) | - | - |
| Bonds purchased under resale agreement | 11,676,882 | - | 11,676,882 | (11,676,882) | _ | _ |
| Unsettled spot exchanges | 7,936,381 | - | 7,936,381 | (7,930,650) | _ | 5,731 |
| Domestic exchange settlement debts | 36,861,598 | (33,077,374) | 3,784,224 | - | _ | 3,784,224 |
| Other accounts receivable(*2) | 1,090,665 | (428,851) | 661,814 | - | - | 661,814 |
| Total | 65,493,862 | (33,506,225) | 31,987,637 | (26,112,081) | (238,492) | 5,637,064 |

- (*1) The rights to offset exist only in case of default, insolvency or bankruptcy. Accordingly, the amounts are not offset in the consolidated statement of financial position as they do not meet the criteria for offsetting.
- (*2) It includes accounts receivable on the KRX related to brokerage trading and proprietary trading transactions
- 8–2 Details of financial liabilities subject to offsetting, enforceable master netting arrangements and similar agreements as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

(Korean won in millions)

| | | Gross amounts | Netamounts offinancial | Relatedamounts not off set in the consolidated statement of financial position(*1) | | |
|-------------------------------------|--|---|---|--|-------------------------|-----------|
| Classification | Gross amounts of ecognized financial liabilities | of recognized financial assets offset | liabilities presented in the consolidated financial statements | Financial instruments recognizedin the consolidated financial statements | Financial collateral | Netamount |
| Derivatives | 14,275,835 | - | 14,275,835 | (10.671.751) | (70 F00) | 0.674.401 |
| Derivatives linkedsecurities sold | 1,140,869 | - | 1,140,869 | (12,671,751) | (70,522) | 2,674,431 |
| Bonds sold under | 8,346,645 | - | 8,346,645 | (8,346,645) | - | - |
| repurchase agreements | | | | | | |
| Unsettledspotexchanges | 5,982,363 | - | 5,982,363 | (5,980,880) | - | 1,483 |
| Domestic exchange settlement credit | 41,967,417 | (36,454,614) | 5,512,803 | - | - | 5,512,803 |
| Other accounts payable (*2) | 717,547 | (343,889) | 373,658 | - | - | 373,658 |
| Securities sold | 1,054,974 | - | 1,054,974 | (1,054,974) | - | - |
| Total | 73,485,650 | (36,798,503) | 36,687,147 | (28,054,250) | (70,522) | 8,562,375 |

- (*1) The rights to offset exist only in case of default, insolvency or bankruptcy. Accordingly, the amounts are not offset in the consolidated statement of financial position as they do not meet the criteria for offsetting.
- (*2) It includes accounts payable on the KRX related to brokerage trading and proprietary trading transactions

<December 31, 2021>

| | Gross amounts of | Gross amounts | Net amounts of financial | Relatedamounts not off set in the consolidated statement of financial position(*1) | | |
|---------------------------------------|-----------------------------------|---|---|--|-------------------------|-----------|
| Classification | ecognizedfinancial liabilities | of recognized financial assets offset | liabilities presented in the consolidated financial statements | Financial instruments recognizedin the consolidated financial statements | Financial collateral | Netamount |
| Derivatives | 5,806,970 | - | 5,806,970 | (4,533,548) | (246,815) | 1,026,607 |
| Bonds soldunder repurchase agreements | 8,180,548 | - | 8,180,548 | (8,180,548) | _ | _ |
| Unsettledspotexchanges | 7,935,821 | _ | 7,935,821 | (7,930,656) | - | 5,165 |
| Domestic exchange settlement credit | 39,250,072 | (33,077,374) | 6,172,698 | (6,172,698) | - | - |
| Otheraccounts payable(*2) | 1,099,653 | (428,851) | 670,802 | _ | - | 670,802 |
| Securities sold | 882,866 | - | 882,866 | (882,866) | - | - |
| Total | 63,155,930 | (33,506,225) | 29,649,705 | (27,700,316) | (246,815) | 1,702,574 |

- (*1) The rights to offset exist only in case of default, insolvency or bankruptcy. Accordingly, the amounts are not offset in the consolidated statement of financial position as they do not meet the criteria for offsetting.
- (*2) It includes accounts payable on the KRX related to brokerage trading and proprietary trading transactions

9. RISK MANAGEMENT

The Group is exposed to credit risk, liquidity risk, market risk and operational risk of its financial instruments. Risk management is a basic activity to use the Group's limited capital effectively under the rapidly changing financial circumstances. The ultimate goal of risk management is to maximize the Group's shareholder value with minimizing the sudden fluctuation of its income through a proper balance between risks and returns.

To keep the consistent risk management on a group-level basis, the Group establishes and manages the group risk management policies and each of its subsidiaries also establishes its own risk management systems and policies suitable for the subsidiaries' industry through the risk committees and working-level councils under the group risk management policies. The Group identifies improvements by diagnosing the subsidiaries' risk management performance if necessary, and continuously enforces the subsidiaries' risk management activities to make them reflect the improvements.

The group risk management committee is a top decision-making organization of the group risk management and has responsibilities to establish and monitor risk management strategies and policies, allowable risk limits and investment limits and capital allocation, which are required to be managed on a group-level

basis. The subsidiaries' risk management committees (or board of directors) are responsible for its own risk management strategies, policies and monitoring. If necessary, the group risk management committee or group risk management execution committee can apply separate risk management standards considering distinct characteristics of each subsidiary.

9-1 Credit risk

9–1–1 Credit risk management

Credit risk is the risk that the Group will incur a loss because its customers' or counterparties' credit rating goes down or fail to discharge their contractual obligations. Credit risk is the highest risk exposed to the Group. Credit risk arises from on-balance and off-balance accounts including loans, financial guarantees, securities and derivatives. The purpose of managing credit risk is to control the relevant losses upon counterparties' default, for a certain period, within the allowable range.

The Company's group risk management committee and group risk management execution committee examine its credit risk on a regular basis. The Group continuously monitors whether credit limits set for each individual, corporation, borrower, subsidiary and major shareholder are compiled and reviews the subsidiaries' asset quality. The Group also checks the status of change of risk exposure, residual limit, profitability, delinquency rate and change of loan loss provision, etc. at least on a quarterly basis.

The Group classifies expected loss and unexpected loss calculating the credit risk.

The expected loss is assessed based on estimated LGD. The LGD is calculated by using exposure at default, estimated PD, which is based on a historical default rate, and historical collection rate. The assessed expected loss is reflected on the interest rates on

new or rolled over loans and loan loss provision. The unexpected loss, which means a potential volatility between estimate loss and actual loss, is estimated as a credit risk exposure of a portfolio using statistical models. The unexpected loss is used for the Group's internal management purpose.

9-1-2 Degree of exposure to credit risk

The maximum exposure to credit risk as of December 31, 2022 and 2021, is as follows. The following table shows the maximum exposure to credit risk for the items in the consolidated statement of financial position, including derivatives, by geography of counterparty and by industry before the effect of mitigation through the use of master netting and collateral agreements. Equity securities in financial assets measured at FVTPL and financial assets held for trading and financial assets measured at FVOCI are excluded (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|---|-------------------|-------------------|
| On-consolidated statement of financial position items: | | |
| Due frombanks | 43,851,198 | 29,375,449 |
| Financial assets measured at FVTPL | | |
| Debt securities | 34,064,189 | 27,939,273 |
| Derivative assets held for trading | 12,633,226 | 5,288,975 |
| Loans | 1,227,865 | 1,898,878 |
| Others | 1,383,000 | 1,983,924 |
| Subtotal | 49,308,280 | 37,111,050 |
| Financial assets measured at FVOCI | 36,279,274 | 38,385,390 |
| Securities measured at amortized cost | 38,928,911 | 23,769,017 |
| Derivative assets used for hedging | 32,312 | 77,507 |
| Loans measured at amortized cost | 361,484,896 | 337,349,273 |
| Merchant banking account asset | 4,631,361 | 4,741,939 |
| Others | 14,615,387 | 14,924,144 |
| Total | 549,131,619 | 485,733,769 |
| Off-consolidated statement of financial position items: | | |
| Financial guarantee contracts | 1,313,320 | 1,451,843 |
| Guarantee contracts | 20,566,305 | 16,433,918 |
| Commitment | 133,138,270 | 118,472,476 |
| Commitment to merchant banking account | 620,000 | 790,000 |
| Total | 155,637,895 | 137,148,237 |

9-1-3 Collateral management and credit risk mitigation

Details of collateral management and credit risk mitigation as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

(Korean won in millions)

| Classification | Impaire | Total | |
|---------------------|-----------------------|-----------------------|---------|
| Classification | Individual assessment | Collective assessment | TOtal |
| Guarantees | 13,949 | 178,192 | 192,141 |
| Deposit | 92 | 11,936 | 12,028 |
| Realestate | 191,261 | 226,932 | 418,193 |
| Movables and others | 8,694 | 6,022 | 14,716 |
| Total | 213,996 | 423,082 | 637,078 |

<December 31, 2021>

(Korean won in millions)

| Classification | Impaire | Total | |
|---------------------|-----------------------|-----------------------|---------|
| Classification | Individual assessment | Collective assessment | TOtal |
| Guarantees | 12,936 | 106,383 | 119,319 |
| Deposit | 90 | 10,593 | 10,683 |
| Realestate | 206,468 | 193,442 | 399,910 |
| Securities | - | 58 | 58 |
| Movables and others | 25,630 | 3,963 | 29,593 |
| Total | 245,124 | 314,439 | 559,563 |

9-1-3-1 As of December 31, 2022 and 2021, financial assets that have collateral and do not recognize a loss allowance are \$1,302,377 million and \$455,162 million, respectively.

9-1-4 Credit risk exposure

9-1-4-1 Loans

As of December 31, 2022 and 2021, carrying amounts of debt securities by internal credit rating in accordance with the loss allowance measurement method are as follows (Korean won in millions):

<December 31, 2022>

| | | Lifetim | ie ECL | Subject to the | |
|-------------------|--------------|-------------------------|-----------------------|---|-------------|
| Classification | 12-month ECL | Noncredit-impaired loan | Credit-impaired loans | application of credit-impaired approach(*1) | Total |
| Householdloans | | | | | |
| Grade 1 | 104,736,860 | 18,497,592 | - | - | 123,234,452 |
| Grade 2 | 8,356,443 | 6,312,502 | - | - | 14,668,945 |
| Grade 3 | 181,229 | 284,158 | 453,355 | - | 918,742 |
| Unrated(*2) | 1,841,522 | 1,045 | 1,751 | - | 1,844,318 |
| Subtotal | 115,116,054 | 25,095,297 | 455,106 | - | 140,666,457 |
| Corporateloans | | | | | |
| Grade 1 | 130,040,890 | 3,297,413 | - | - | 133,338,303 |
| Grade 2 | 63,409,668 | 11,109,167 | 3,258 | - | 74,522,093 |
| Grade 3 | 386,230 | 3,405,512 | 769,750 | 968,506 | 5,529,998 |
| Unrated(*2) | 178,287 | 14,000 | - | - | 192,287 |
| Subtotal | 194,015,075 | 17,826,092 | 773,008 | 968,506 | 213,582,681 |
| Credit card loans | | | | | |
| Grade 1 | 4,076,150 | 94,698 | - | - | 4,170,848 |
| Grade 2 | 4,474,393 | 382,703 | _ | _ | 4,857,096 |
| Grade 3 | 7,731 | 72,966 | 155,329 | - | 236,026 |
| Subtotal | 8,558,274 | 550,367 | 155,329 | - | 9,263,970 |
| Total | 317,689,403 | 43,471,756 | 1,383,443 | 968,506 | 363,513,108 |

^(*1) The Group applies the credit-impaired approach to the underlying assets subject to securitization (purchased NPL assets).

^(*2) The amounts of items that are internally unrated

(Korean won in millions)

| | | Lifetime ECL | | Subject to the | |
|-------------------|-------------|----------------------------|--------------------------|--|-------------|
| Classification | 12-monthECL | Noncredit-impaired Ioan | Credit-impaired loans | application of credit-impaired approach (*1) | Total |
| Householdloans | | | | | |
| Grade 1 | 105,546,439 | 19,132,518 | - | 1 | 124,678,957 |
| Grade 2 | 8,603,470 | 5,547,758 | - | _ | 14,151,228 |
| Grade3 | 94,255 | 141,541 | 355,748 | _ | 591,544 |
| Unrated(*2) | 2,354,909 | 700 | 5,931 | - | 2,361,540 |
| Subtotal | 116,599,073 | 24,822,517 | 361,679 | _ | 141,783,269 |
| Corporateloans | | | | | |
| Grade 1 | 113,400,972 | 2,694,780 | - | _ | 116,095,752 |
| Grade 2 | 58,317,326 | 9,959,224 | - | _ | 68,276,550 |
| Grade 3 | 240,056 | 2,131,950 | 683,009 | 1,369,499 | 4,424,514 |
| Unrated(*2) | 256,190 | 10,000 | - | _ | 266,190 |
| Subtotal | 172,214,544 | 14,795,954 | 683,009 | 1,369,499 | 189,063,006 |
| Credit card loans | | | | | |
| Grade 1 | 3,362,392 | 93,494 | - | - | 3,455,886 |
| Grade 2 | 3,988,964 | 383,003 | - | _ | 4,371,967 |
| Grade 3 | 3,049 | 43,528 | 127,519 | _ | 174,096 |
| Subtotal | 7,354,405 | 520,025 | 127,519 | _ | 8,001,949 |
| Total | 296,168,022 | 40,138,496 | 1,172,207 | 1,369,499 | 338,848,224 |

- (*1) The Group applies the credit-impaired approach to the underlying assets subject to securitization (purchased NPL assets).
- (*2) The amounts of items that are internally unrated

The above book amount does not reflect the loan origination deferred asset, provision for loss and present value discount.

The credit rating classification of the loans for the years ended December 31, 2022 and 2021, is as follows:

<December 31, 2022>

| | 1 | | |
|----------------|------------------------------|---------------------------------|-----------------------------------|
| Classification | Householdloans | Corporate loans | Small office home office ("SOHO") |
| Grade 1 | Less or equal to 0.49% of PD | Less or equal to 0.58% of PD | Less or equal to 2.85% of PD |
| Grade 2 | From 0.49% to 24.93% of PD | From 0.58% to 12.83% of PD | From 2.85% to 27.43% of PD |
| Grade 3 | From 24.93% to 100% of PD | From12.83% to 100% of PD | From 27.43% to 100% of PD |

<December 31, 2021>

| Classification | Household loans | Corporateloans | SOHO |
|----------------|---------------------------------|------------------------------|---------------------------------|
| Grade 1 | Less or equal to 0.58% of PD | Less or equal to 0.51% of PD | Less or equal to 2.56% of PD |
| Grade 2 | From 0.58% to 30.72% of PD | From 0.51%to 10.99%ofPD | From 2.56% to 25.64% of PD |
| Grade 3 | From 30.72% to 100% of PD | From 10.99% to 100% of PD | From 25.64% to 100% of PD |

9-1-4-2 Off-consolidated statement of financial position items

As of December 31, 2022 and 2021, exposures of off-balance-sheet items by internal credit rating in accordance with the loss allowance measurement method are as follows (Korean won in millions):

<December 31, 2022>

| | 10 " | Lifetime expect | ed credit losses | | |
|-------------------------------|-------------------------------|-------------------------------|--------------------------|-------------|--|
| Classification | 12 month expected credit loss | Non credit- impaired loans | Credit-impaired loans | Total | |
| Financial guarantee contracts | | | | | |
| Grade 1 | 1,138,318 | 60,616 | | 1,198,934 | |
| Grade 2 | 78,156 | 22,248 | _ | 100,404 | |
| Grade 3 | 8,908 | 5,070 | 4 | 13,982 | |
| Subtotal | 1,225,382 | 87,934 | 4 | 1,313,320 | |
| Guarantee contracts | | | | | |
| Grade 1 | 16,243,568 | 579,746 | - | 16,823,314 | |
| Grade 2 | 2,956,691 | 404,440 | - | 3,361,131 | |
| Grade 3 | 9 | 359,681 | 22,170 | 381,860 | |
| Subtotal | 19,200,268 | 1,343,867 | 22,170 | 20,566,305 | |
| Commitment | | | | | |
| Grade 1 | 108,746,430 | 5,434,384 | - | 114,180,814 | |
| Grade 2 | 15,752,227 | 2,764,895 | - | 18,517,122 | |
| Grade 3 | 6,163 | 286,665 | 39,600 | 332,428 | |
| Unrated | 107,906 | - | - | 107,906 | |
| Subtotal | 124,612,726 | 8,485,944 | 39,600 | 133,138,270 | |
| Total | 145,038,376 | 9,917,745 | 61,774 | 155,017,895 | |

(Korean won in millions)

| | Lifetime expected credit losses | | ed credit losses | | | |
|---------------------------|---------------------------------|-------------------------------|--------------------------|-------------|--|--|
| Classification | credit loss | Non credit- impaired loans | Credit-impaired loans | Total | | |
| Financial guarantee ontra | Financial guarantee ontracts | | | | | |
| Grade 1 | 1,218,378 | 55,091 | - | 1,273,469 | | |
| Grade 2 | 147,773 | 26,447 | - | 174,220 | | |
| Grade 3 | _ | 4,150 | 4 | 4,154 | | |
| Subtotal | 1,366,151 | 85,688 | 4 | 1,451,843 | | |
| Guarantee contracts | | | | | | |
| Grade 1 | 11,705,587 | 1,075,730 | - | 12,781,317 | | |
| Grade 2 | 2,740,338 | 588,344 | - | 3,328,682 | | |
| Grade 3 | 8 | 297,838 | 26,073 | 323,919 | | |
| Subtotal | 14,445,933 | 1,961,912 | 26,073 | 16,433,918 | | |
| Commitment | | | | | | |
| Grade 1 | 96,936,886 | 5,210,937 | - | 102,147,823 | | |
| Grade 2 | 12,650,113 | 3,169,877 | - | 15,819,990 | | |
| Grade 3 | 8,622 | 304,186 | 32,681 | 345,489 | | |
| Unrated | 159,174 | - | - | 159,174 | | |
| Subtotal | 109,754,795 | 8,685,000 | 32,681 | 118,472,476 | | |
| Total | 125,566,879 | 10,732,600 | 58,758 | 136,358,237 | | |

The credit rating classification of the off-Off-consolidated statement of financial position items as of December 31, 2022 and 2021, is as follows:

<December 31, 2022>

| Classification | Householdloans | Corporate loans | SOHO |
|----------------|-------------------------------|-------------------------------|------------------------------|
| | Less or equal to | Less or equal to | Less or equal to |
| Grade 1 | 0.49% of PD | 0.58% of PD | 2.85% of PD |
| Grade 2 | From 0.49% to 24.93% of PD | From 0.58% to 12.83% of PD | From 2.85% to 27.43% of PD |
| Grade 3 | From 24.93% to 100% of PD | From 12.83% to 100% of PD | From 27.43% to 100% of PD |

<December 31, 2021>

| Classification | Householdloans | Corporateloans | SOHO |
|----------------|------------------------------|-------------------------------|------------------------------|
| Grade 1 | Less or equal to 0.58% of PD | Less or equal to 0.51% of PD | Less or equal to 2.56% of PD |
| Grade 2 | From 0.58% to 30.72% of PD | From 0.51% to 10.99% of PD | From 2.56% to 25.64% of PD |
| Grade 3 | From 30.72% to 100%of PD | From 10.99% to 100% of PD | From 25.64% to 100% of PD |

9–1–5 Internal credit rating of debt securities

9–1–5–1 As of December 31, 2022 and 2021, the carrying amounts of debt securities by internal credit rating in accordance with the loss allowance measurement method are as follows (Korean won in millions):

<December 31, 2022>

| | 10 magnith our agt ad | Lifetime expect | ted credit losses | |
|---|-------------------------------|------------------------------|-----------------------|------------|
| Classification | 12 month expected credit loss | Noncredit- impaired loans | Credit-impaired loans | Total |
| Financial assets measured at FVOCI | | | | |
| Grade 1 | 36,264,534 | - | _ | 36,264,534 |
| Grade 2 | 14,740 | - | _ | 14,740 |
| Subtotal | 36,279,274 | - | _ | 36,279,274 |
| Financial assets measured at amortized cost | | | | |
| Grade 1 | 38,848,534 | _ | - | 38,848,534 |
| Grade 2 | 71,783 | - | _ | 71,783 |
| Grade 3 | _ | 24,507 | 67,336 | 91,843 |
| Subtotal | 38,920,317 | 24,507 | 67,336 | 39,012,160 |
| Total | 75,199,591 | 24,507 | 67,336 | 75,291,434 |

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<December 31, 2021>

(Korean won in millions)

| | 12 month | Lifetime expect | ed credit losses | |
|---|-----------------|-------------------------------|--------------------------|------------|
| Classification | expected credit | Non credit- impaired loans | Credit-impaired loans | Total |
| Financial assets measured at FVOCI | | | | |
| Grade 1 | 38,385,390 | 1 | ı | 38,385,390 |
| Subtotal | 38,385,390 | _ | - | 38,385,390 |
| Financial assets measured at amortized cost | | | | |
| Grade 1 | 23,618,738 | - | - | 23,618,738 |
| Grade 2 | 76,096 | 68,827 | - | 144,923 |
| Grade 3 | _ | 25,113 | _ | 25,113 |
| Subtotal | 23,694,834 | 93,940 | | 23,788,774 |
| Total | 62,080,224 | 93,940 | _ | 62,174,164 |

The credit ratings of debt securities based on the internal rating used by Hana Bank and credit ratings by external credit rating agencies are as follows:

| | Internal credit | | Overseas rating a gencies | | |
|----------------|-----------------------|-----------------------------|---------------------------|--------|--|
| Classification | rating (Corporate) | Domesticrating a gencies | Moody's | Fitch | |
| Grade 1 | A1-A7 | AAA-BBB | Aaa-Ba2 | AAA-BB | |
| Grade 2 | B1-B6 | BBBBB- | Ba3-B3 | BBB- | |
| Grade3 | C1-C3 | B+-CCC | Caa1-C | CCC+-C | |

9–1–6 Credit risk concentration

9–1–6–1 Credit risk concentration in each major industry as of December 31, 2022 and 2021,is as follows (Korean won in millions):



| OI 15. 1. | Labora | Decembe | r31, 2022 | December 31, 2021 | | |
|------------------------------------|--------------------------------|-------------|-----------|-------------------|----------|--|
| Classification | Industry | Amounts | Ratio(%) | Amounts | Ratio(%) | |
| On-consolidated statement | | | | | | |
| of financial position items | | | | | | |
| Due frombanks | Financial services | 43,851,198 | 100.0 | 29,375,449 | 100.0 | |
| | Financial services | 32,035,757 | 65.0 | 22,855,396 | 61.6 | |
| | Manufacturing | 2,669,343 | 5.4 | 2,315,583 | 6.2 | |
| | Publicadministration | 6,970,203 | 14.1 | 3,705,198 | 10.0 | |
| Financial assets | Construction | 175,720 | 0.4 | 8,829 | _ | |
| measured at FVTPL | Wholesale and retail | 341,340 | 0.7 | 214,002 | 0.6 | |
| | Others | 7,115,917 | 14.4 | 8,012,042 | 21.6 | |
| | Subtotal | 49,308,280 | 100.0 | 37,111,050 | 100.0 | |
| | Financial services | 17,492,958 | 48.2 | 19,322,185 | 50.3 | |
| | Manufacturing | 264,703 | 0.7 | 273,971 | 0.7 | |
| | Publicadministration | 15,010,857 | 41.4 | 14,754,866 | 38.4 | |
| Financial assets | Construction | 66,962 | 0.2 | 337,319 | 0.9 | |
| measured at FVOCI | Wholesale and retail | 126,301 | 0.3 | 133,056 | 0.3 | |
| | Others | 3,317,493 | 9.2 | 3,563,993 | 9.4 | |
| | Subtotal | 36,279,274 | 100.0 | 38,385,390 | 100.0 | |
| | Financial services | 19,546,733 | 50.2 | 9,904,454 | 41.7 | |
| | Manufacturing | 248,479 | 0.6 | 84,749 | 0.4 | |
| | Public administration | 10,464,619 | 26.9 | 7,987,248 | 33.6 | |
| Securities measured | Construction | 83,495 | 0.2 | 204,833 | 0.9 | |
| at amortizedcost | Others | 8,668,834 | 22.3 | 5,607,490 | 23.5 | |
| | Subtotal | 39,012,160 | 100.2 | 23,788,774 | 100.1 | |
| | Allowance for credit loss | (83,249) | (0.2) | (19,757) | (0.1) | |
| | Total | 38,928,911 | 100.0 | 23,769,017 | 100.0 | |
| Derivative assets used for hedging | Financial services | 32,312 | 100.0 | 77,507 | 100.0 | |
| | Householdloans | 140,666,457 | 38.9 | 141,783,269 | 42.0 | |
| | Credit cardloans | 9,263,970 | 2.6 | 8,001,949 | 2.4 | |
| | Corporate loans | | | | | |
| | Manufacturing | 51,878,007 | 14.4 | 44,901,226 | 13.3 | |
| | Construction | 5,851,966 | 1.6 | 4,104,014 | 1.2 | |
| | Wholesale and retail | 24,367,647 | 6.7 | 22,244,449 | 6.6 | |
| | Financial services | 25,826,786 | 7.1 | 22,848,839 | 6.8 | |
| Loans measured at amortized cost | Real estate rental | 46,934,536 | 13.0 | 44,839,185 | 13.3 | |
| at amortized cost | Others | 58,723,739 | 16.3 | 50,125,293 | 14.8 | |
| | Subtotal | 363,513,108 | 100.6 | 338,848,224 | 100.4 | |
| | Deferred loan fees | 410,522 | 0.1 | 420,682 | 0.1 | |
| | Present value discount | (18,866) | _ | (5,231) | _ | |
| | Expected credit loss allowance | (2,419,868) | (0.7) | (1,914,402) | (0.5) | |
| | Subtotal | (2,028,212) | (0.6) | (1,498,951) | (0.4) | |

| Classification | la di tota i | December | r31,2022 | December 31, 2021 | | |
|---|----------------------|-------------|----------|-------------------|----------|--|
| Classification | Industry | Amounts | Ratio(%) | Amounts | Ratio(%) | |
| | Total | 361,585,610 | 100.0 | 337,349,273 | 100.0 | |
| | Financial services | 817,368 | 17.6 | 668,878 | 14.1 | |
| | Manufacturing | - | _ | 49,827 | 1.1 | |
| NA-vala and languities and a second | Wholesale and retail | - | _ | 119,976 | 2.5 | |
| Merchant banking account | Real estate rental | 1,007,544 | 21.8 | 1,208,226 | 25.5 | |
| | Others | 2,806,449 | 60.6 | 2,695,032 | 56.8 | |
| | Subtotal | 4,631,361 | 100.0 | 4,741,939 | 100.0 | |
| | Total | 534,516,232 | | 470,809,625 | | |
| Off-consolidated statement of financial | | | | | | |
| | Manufacturing | 219,522 | 16.7 | 170,742 | 11.8 | |
| | Construction | 6,643 | 0.5 | 4,083 | 0.3 | |
| | Wholesale and retail | 58,813 | 4.5 | 48,765 | 3.4 | |
| Financial guarantee | Financial services | 695,034 | 52.9 | 652,535 | 44.9 | |
| contracts | Real estate rental | 54,214 | 4.1 | 138,890 | 9.6 | |
| | Others | 279,094 | 21.3 | 436,828 | 30.0 | |
| | Subtotal | 1,313,320 | 100.0 | 1,451,843 | 100.0 | |
| | Householdloans | 353,026 | 1.7 | 19,369 | 0.1 | |
| | Manufacturing | 11,165,598 | 54.3 | 9,410,325 | 57.3 | |
| | Construction | 1,600,908 | 7.8 | 1,602,680 | 9.8 | |
| | Wholesale and retail | 3,664,550 | 17.8 | 3,264,298 | 19.9 | |
| Guarantee contracts | Financial services | 2,154,942 | 10.5 | 802,350 | 4.9 | |
| | Real estate rental | 168,777 | 0.8 | 149,210 | 0.9 | |
| | Others | 1,458,504 | 7.1 | 1,185,686 | 7.1 | |
| | Subtotal | 20,566,305 | 100.0 | 16,433,918 | 100.0 | |
| | Householdloans | 56,430,947 | 42.4 | 51,108,539 | 43.1 | |
| | Manufacturing | 30,606,423 | 23.0 | 27,245,050 | 23.0 | |
| | Construction | 2,269,858 | 1.7 | 2,542,532 | 2.1 | |
| Commitment | Wholesale and retail | 9,994,085 | 7.5 | 8,613,975 | 7.3 | |
| Commitment | Financial services | 9,839,807 | 7.4 | 8,602,102 | 7.3 | |
| | Real estate rental | 4,692,251 | 3.5 | 4,142,299 | 3.5 | |
| | Others | 19,304,899 | 14.5 | 16,217,979 | 13.7 | |
| | Subtotal | 133,138,270 | 100.0 | 118,472,476 | 100.0 | |
| | Financial services | 310,000 | 50.0 | 460,000 | 58.2 | |
| | Manufacturing | 50,000 | 8.1 | 50,000 | 6.3 | |
| Moroboot booking assessed | Wholesale and retail | 110,000 | 17.7 | 130,000 | 16.5 | |
| Merchant banking account | Real estate rental | 100,000 | 16.1 | 100,000 | 12.7 | |
| | Others | 50,000 | 8.1 | 50,000 | 6.3 | |
| | Subtotal | 620,000 | 100.0 | 790,000 | 100.0 | |
| | Total | 155,637,895 | | 137,148,237 | | |

9–1–6–2 Credit risk concentration in each country as of December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classifi 1i | Country | December | 31, 2022 | December | 31, 2021 |
|--|---------------------------|------------|----------|------------|----------|
| Classification | Country | Amounts | Ratio(%) | Amounts | Ratio(%) |
| On-consolidated statement of financial | | | | | |
| | Korea | 29,198,285 | 66.6 | 21,769,253 | 74.1 |
| | United States | 7,384,384 | 16.8 | 619,767 | 2.1 |
| | China | 1,203,980 | 2.7 | 1,133,907 | 3.9 |
| | Japan | 1,006,988 | 2.3 | 1,844,472 | 6.3 |
| Due frombanks | Singapore | 96,289 | 0.2 | 246,342 | 0.8 |
| | HongKong | 165,821 | 0.4 | 123,637 | 0.4 |
| | United Kingdom | 67,588 | 0.2 | 54,880 | 0.2 |
| | Others | 4,727,863 | 10.8 | 3,583,191 | 12.2 |
| | Subtotal | 43,851,198 | 100.0 | 29,375,449 | 100.0 |
| | Korea | 42,963,001 | 87.1 | 32,172,436 | 86.7 |
| | United States | 1,755,529 | 3.6 | 2,164,344 | 5.8 |
| | China | 679,035 | 1.4 | 14,802 | - |
| | Japan | 87,217 | 0.2 | 152,774 | 0.4 |
| Financial assets measured at FVTPL(*) | Singapore | 13,404 | _ | 36,475 | 0.1 |
| | HongKong | 73,318 | 0.1 | 42,795 | 0.1 |
| | United Kingdom | 276,302 | 0.6 | 251,772 | 0.7 |
| | Others | 3,460,474 | 7.0 | 2,275,652 | 6.2 |
| | Subtotal | 49,308,280 | 100.0 | 37,111,050 | 100.0 |
| | Korea | 31,369,891 | 86.5 | 33,079,714 | 86.2 |
| | United States | 861,451 | 2.4 | 596,427 | 1.6 |
| | China | 1,977,918 | 5.5 | 2,195,189 | 5.7 |
| | Japan | - | - | 13,460 | _ |
| Financial assets measured at FVOCI | HongKong | 79,518 | 0.2 | 103,977 | 0.3 |
| | Australia | _ | - | 35,249 | 0.1 |
| | France | 55,351 | 0.2 | 56,571 | 0.1 |
| | Others | 1,935,145 | 5.2 | 2,304,803 | 6.0 |
| | Subtotal | 36,279,274 | 100.0 | 38,385,390 | 100.0 |
| | Korea | 36,380,281 | 93.5 | 21,614,683 | 90.9 |
| | United States | 90,775 | 0.2 | 540,728 | 2.3 |
| | China | 128,242 | 0.3 | 131,144 | 0.6 |
| Securities measured at amortized cost | Others | 2,412,863 | 6.2 | 1,502,220 | 6.3 |
| at amortizedoust | Subtotal | 39,012,161 | 100.2 | 23,788,775 | 100.1 |
| | Allowance for credit loss | (83,250) | (0.2) | (19,758) | (0.1) |
| | Total | 38,928,911 | 100.0 | 23,769,017 | 100.0 |
| | Korea | 32,312 | 100.0 | 20,590 | 26.6 |
| | United States | _ | _ | 86 | 0.1 |

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| Classification | Country | December | 31, 2022 | December | er 31, 2021 | |
|---|---------------------------------|-------------|----------|-------------|-------------|--|
| Classification | Country | Amounts | Ratio(%) | Amounts | Ratio(%) | |
| Derivative assets used | HongKong | _ | _ | 2,177 | 2.8 | |
| for hedging | United Kingdom | - | _ | 273 | 0.4 | |
| | Others | _ | _ | 54,381 | 70.1 | |
| | Subtotal | 32,312 | 100.0 | 77,507 | 100.0 | |
| | Korea | 332,675,461 | 92.0 | 311,205,550 | 92.3 | |
| | UnitedStates | 4,748,966 | 1.3 | 4,263,906 | 1.3 | |
| | China | 6,051,565 | 1.7 | 6,107,149 | 1.8 | |
| | Japan | 1,855,875 | 0.5 | 1,840,661 | 0.5 | |
| | HongKong | 2,545,485 | 0.7 | 2,359,165 | 0.7 | |
| | Others | 15,635,756 | 4.4 | 13,071,793 | 3.8 | |
| Loans measured | Subtotal | 363,513,108 | 100.6 | 338,848,224 | 100.4 | |
| at amortizedcost | Deferred loan fees and expenses | 410,522 | 0.1 | 420,682 | 0.1 | |
| | Present value discount | (18,866) | _ | (5,231) | _ | |
| | Expected credit loss allowance | (2,419,868) | (0.7) | (1,914,402) | (0.5) | |
| | Subtotal | (2,028,212) | (0.6) | (1,498,951) | (0.4) | |
| | Total | 361,484,896 | 100.0 | 337,349,273 | 100.0 | |
| Merchant banking accounts assets | Korea | 4,631,361 | 100.0 | 4,741,939 | 100.0 | |
| Total | | 534,516,232 | | 470,809,625 | | |
| Off-consolidated statement of financial | | | | | | |
| Financial guarantees | Korea | 1,313,320 | 100.0 | 1,451,843 | 100.0 | |
| | Korea | 15,171,807 | 73.8 | 13,097,487 | 79.7 | |
| | UnitedStates | 213,716 | 1.0 | 26,714 | 0.2 | |
| | China | 1,831,845 | 8.9 | 1,822,912 | 11.1 | |
| Guarantee contracts | Japan | 23,331 | 0.1 | 29,602 | 0.2 | |
| | Others | 3,325,606 | 16.2 | 1,457,203 | 8.8 | |
| | Subtotal | 20,566,305 | 100.0 | 16,433,918 | 100.0 | |
| | Korea | 128,228,602 | 96.3 | 114,407,903 | 96.6 | |
| | UnitedStates | 682,571 | 0.5 | 293,350 | 0.2 | |
| Community and | China | 783,536 | 0.6 | 623,483 | 0.5 | |
| Commitment | Japan | 199,854 | 0.2 | 272,926 | 0.2 | |
| | Others | 3,243,707 | 2.4 | 2,874,814 | 2.5 | |
| | Subtotal | 133,138,270 | 100.0 | 118,472,476 | 100.0 | |
| Merchant banking accounts | Korea | 620,000 | 100.0 | 790,000 | 100.0 | |
| Total | | 155,637,895 | | 137,148,237 | | |



9–1–7 Details of the Group's corporate loans by industry affected by the spread of COVID–19 as of December 31, 2022 and 2021, are as follows.

The effect on the industries may vary significantly based on future economic conditions. Household loan debtors subject to measurement of lifetime ECL as disclosed in Note 9–1–4–1, may be impacted by the spread of COVID–19, The effect may change depending on future economic conditions (Korean won in millions):

<December 31, 2022>

(Korean won in millions)

| Industry | Financial assets at FVTPL | Financial assets at FVOCI | Securities measured at amortized cost | Loans at amortized cost | Merchant banking account assets | Off-consolidated statement of financial position items | Total |
|---------------------|---------------------------------|---------------------------------|--|-------------------------|--|---|------------|
| Airtransportation | 134,278 | - | - | 581,155 | _ | 442,132 | 1,157,565 |
| Watertransportation | - | 1 | 1 | - | 118,889 | _ | 118,889 |
| Lodging | 480,714 | - | - | 3,253,722 | _ | 219,923 | 3,954,359 |
| Food | 3,692 | 1 | 1 | 5,749,221 | _ | 227,043 | 5,979,956 |
| Automobile | 191,334 | 9,515 | 14,222 | 6,520,246 | _ | 5,147,485 | 11,882,802 |
| Petroleumrefining | 332,596 | 9,268 | - | 1,632,294 | _ | 2,633,508 | 4,607,666 |
| Travel | 258 | - | - | 216,039 | _ | 50,561 | 266,858 |
| Total | 1,142,872 | 18,783 | 14,222 | 17,952,677 | 118,889 | 8,720,652 | 27,968,095 |

<December 31, 2021>

| Industry | Financial assets at FVTPL | Financial assets at FVOCI | Securities measuredat amortizedcost | Loans at amortized cost | Off-consolidated statement of financial position items | Total |
|-------------------|---------------------------------|---------------------------------|---|-------------------------------|---|------------|
| Airtransportation | 118,276 | - | _ | 559,471 | 290,076 | 967,823 |
| Lodging | 377,220 | _ | _ | 3,235,904 | 406,478 | 4,019,602 |
| Food | 4,302 | - | - | 5,276,673 | 209,605 | 5,490,580 |
| Automobile | 429,609 | 9,849 | 13,379 | 6,587,129 | 5,060,751 | 12,100,717 |
| Petroleumrefining | 181,251 | 9,728 | _ | 819,014 | 2,424,649 | 3,434,642 |
| Travel | 301 | - | _ | 172,308 | 60,374 | 232,983 |
| Total | 1,110,959 | 19,577 | 13,379 | 16,650,499 | 8,451,933 | 26,246,347 |

9–2–1 Liquidity risk management

Liquidity risk is defined as the risk that the Group will encounter difficulty in meeting obligations associated with financial liabilities. The purpose to manage liquidity risk is to early identify the potential risk factors upon raising and operating the Group's funds and to obtain a stable revenue base through maintaining an appropriate level of the Group's liquidity by systematically managing the risk. The targets of liquidity risk management are all assets and liabilities outstanding in the Group's consolidated statements of financial position.

The Group's principles regarding liquidity risk management are as follows:

- Set up and comply with tolerable limits to liquidity risk
- Maintain liquidity by regularly forecasting cash requirements on a regular basis

Each associate assesses and manages liquidity coverage ratios and liquidity ratio of the relevant assets and liabilities by applying the relevant supervisory regulations. The Group manages an acceptable limit on each associate's liquidity risk through the group risk management executive committee and performs liquidity stress test periodically and establishes a contingent funding plan based on the test results to be prepared for liquidity crisis.

9-2-2 Maturity of financial instruments analysis 9-2-2-1 Reporting standard

Details of the remaining contractual maturities of financial liabilities are analyzed by the earliest maturity date when the Group would be required to pay, based on the undiscounted cash outflows of the Group's financial liabilities. In addition, financial liabilities at FVTPL and depository liabilities (payment on demand) are shown at fair value in the immediate payment column.

9–2–2–2 Remaining maturity of the financial liabilities

The table below summarizes the maturity profile of the contractual undiscounted cash flows of the Group's financial liabilities. The remaining maturity of financial liabilities as of December 31, 2022 and 2021, is summarized as follows (Korean won in millions):

<December 31, 2022>

(Korean won in millions)

| Classification | Ondemand | Within 1 month | After 1 month but no later than 3 months | After3months ~but no later than 1 year | After 1 year ~but no later than 5years | After5years | Total |
|--|-------------|----------------|--|--|---|-------------|-------------|
| On-consolidated statement of financial position accounts: | | | | | | | |
| Financial liabilities measuredat FVTPL | 15,303,050 | - | - | _ | - | 1 | 15,303,050 |
| Financial liabilities designatedas measured at FVTPL | 6,480 | 558,267 | 1,818,812 | 3,307,693 | 4,740,720 | 2,395,703 | 12,827,675 |
| Deposits | 157,708,593 | 35,030,107 | 41,387,865 | 115,996,872 | 17,202,553 | 1,473,265 | 368,799,255 |
| Borrowings | 5,488,091 | 12,201,635 | 4,740,635 | 7,877,506 | 6,734,267 | 518,789 | 37,560,923 |
| ebentures | 139 | 3,466,112 | 5,991,676 | 18,431,443 | 26,540,659 | 4,219,764 | 58,649,793 |
| Derivative liabilities used for hedging | _ | 11,322 | 3,591 | 33,937 | 41,224 | (20,827) | 69,247 |
| Merchant banking account liabilities | 1,122,469 | 2,544,804 | - | _ | - | _ | 3,667,273 |

| Classification | Ondemand | Within 1 month | After 1 month ~but no later than 3 months | After3months ~but no later than 1 year | After 1 year but no later than years | After 5 years | Total |
|--|-------------|----------------|---|--|--|---------------|-------------|
| Others | 10,671,444 | 17,771,177 | 118,392 | 160,356 | 763,338 | 42,070 | 29,526,777 |
| Total | 190,300,266 | 71,583,424 | 54,060,971 | 145,807,807 | 56,022,761 | 8,628,764 | 526,403,993 |
| Off-consolidated statement of financial position accounts: | | | | | | | |
| Financial guarantee contracts | 1,313,320 | - | - | - | - | - | 1,313,320 |
| Acceptances and guarantees | 20,566,305 | - | - | _ | - | _ | 20,566,305 |
| Commitment | 133,138,270 | - | - | - | - | - | 133,138,270 |
| Commitment to merchant banking | 620,000 | - | - | - | - | - | 620,000 |
| Total | 155,637,895 | - | - | - | - | _ | 155,637,895 |

<December 31, 2022>

| Classification | Ondemand | Within 1 month | After 1 month ~but no later than 3 months | After3months ~but no later than 1 year | After 1 year ~but no later than 5 years | After5years | Total |
|---|-------------|----------------|---|--|--|-------------|-------------|
| On-consolidated statement of financial position accounts: | | | | | | | |
| Financial liabilities measuredat FVTPL | 6,772,300 | - | I | _ | - | 1 | 6,772,300 |
| Financial liabilities designated as measured at FVTPL | _ | 128,507 | 113,122 | 1,950,260 | 4,044,713 | 2,944,657 | 9,181,259 |
| Deposits | 168,885,302 | 20,824,748 | 32,642,988 | 93,004,427 | 9,739,702 | 2,084,058 | 327,181,225 |
| Borrowings | 5,530,618 | 10,622,547 | 3,157,158 | 6,672,462 | 3,917,418 | 449,091 | 30,349,294 |
| Debentures | 12,741 | 2,946,602 | 3,719,445 | 14,694,412 | 29,100,506 | 5,160,244 | 55,633,950 |
| Derivative liabilities used for hedging | - | 1,889 | 1,728 | 7,312 | 43,457 | (88,970) | (34,584) |
| Merchant banking account liabilities | 895,438 | 2,012,842 | - | _ | - | - | 2,908,280 |
| Others | 7,040,521 | 19,106,583 | 121,314 | 336,510 | 794,470 | 307,694 | 27,707,092 |
| Total | 189,136,920 | 55,643,718 | 39,755,755 | 116,665,383 | 47,640,266 | 10,856,774 | 459,698,816 |
| Off-consolidated statement of financial position accounts: | | | | | | | |
| Financial guarantee contracts | 1,451,843 | - | - | _ | - | - | 1,451,843 |
| Acceptances and guarantees | 16,433,918 | - | - | - | - | _ | 16,433,918 |
| Commitment | 118,472,476 | - | 1 | _ | _ | _ | 118,472,476 |
| Commitment to merchant banking account | 790,000 | - | - | - | - | - | 790,000 |
| Total | 137,148,237 | - | - | | _ | _ | 137,148,237 |



Derivative liabilities used for hedging are denominated based on the net cash flow. Available assets that exist in redeeming financial liabilities and unused loan commitments are cash and due from banks, debt securities, equity securities, loans, etc. In addition, the Group is able to cope with unexpected cash flows through the sale of securities and additional sources of funding, similar to asset–backed securitization.

9-3 Market risk

Market risk is the risk that the fair value or future cash flows of financial instruments will fluctuate due to the changes in market variables, such as interest rates, equity prices and exchange ratios in the market.

The purpose of market risk management is to maintain the loss of assets and liabilities incurred due to changes in market variables, such as interest rates, foreign exchanges and equity ,prices within the allowable limits in order to ensure profitability and stability. Market risk management targets include securities held for trading, foreign currency net positions, derivatives and other assets and liabilities with embedded market risks. Significant risks exposed to the Group as of the reporting date are interest rate risk, foreign exchange risk and equity price risk.

For market risk management, the Group measures and monitors the relevant risk exposures on a regular basis. The Group also establishes and complies with market risk limits, whereby it can manage the exposures arising from changes of market variables within an adequate level. The subsidiaries exposed to market risks, such as Hana Bank and Hana Securities, set up and operate their own market risk management system. The Group-level market risk exposures are consistently calculated through the Group-integrated risk management system.

The Group reports its current status of market risk management to the group risk management execution committee and group risk management committee on a monthly and quarterly basis.

9-3-1 Trading position

The trading positions include positions of interest rate, equity price, commodity and foreign exchange held for trading purpose. To be more specific, the trading positions include financial instruments for the purpose of acquiring the differences incurred due to short-term trading or price fluctuations, financial instruments for the purpose of hedging risks, financial instruments for the purpose of acquiring arbitrages, financial instruments for the purpose of acquiring arbitrages, financial instruments for the purpose of acquiring arbitrages.

The Group's principles to manage the market risk of its trading positions are to measure its market risk status on a regular basis and to establish and comply with the various market risk limits. The Group analyzes whether the return against risk are appropriate by reviewing its profit and risk on a regular basis

9-3-1-1 Value at Risk ("VaR")

VaR is a primary method that manages and measures the degree of market risks of the trading portfolio subject to exposure, which estimates the potential loss of the trading portfolio that is not expected to be exceeded if the current market risk positions were to be held unchanged for one day. The Group calculates

the VaR for a standard 10 days in the 99% confidence level. In addition, to account for the method's limited use, stress tests are performed in order to measure the extent of the loss in extreme cases.

9-3-1-2 Risk types of VaR

Risk types of VaR as of December 31, 2022 and 2021, are summarized as follows (Korean won in millions):

| Classification | December 31, 2022 | Average | Minimum | Maximum | December 31, 2021 |
|-----------------------------|----------------------|---------|---------|---------|----------------------|
| Interest rates risk | 121,787 | 91,389 | 47,140 | 214,468 | 64,980 |
| Foreign exchange rates risk | 468,262 | 404,949 | 301,090 | 638,195 | 406,435 |
| Stock price risk | 50,283 | 34,004 | 6,144 | 67,153 | 39,554 |
| Total risk(*) | 584,101 | 437,304 | 341,684 | 674,819 | 408,720 |

(*) The calculation of the total risk VaR takes into consideration the correlation and diversification effects between each risk factor and therefore, is not the same as the arithmetic additions of all the VaRs.

9–3–2 Non-trading position 9–3–2–1 Interest rate risk

Interest rate risk of non-trading position is a risk of losses on financial assets and liabilities with interest rates due to adverse changes in interest rates and is incurred when maturity structure does not match interest rate setting cycle of the related assets and liabilities. The Group measures interest rate risk on interest ratebearing assets, such as loans, due from banks and debt securities; interest rate liabilities, such as deposits, borrowings and debentures; and interest rate-sensitive derivatives, such as interest rate swaps for each subsidiary. The Group manages interest rate risks in order to maintain the stability of net interest income and net asset value.

Interest rate risk establishes limits and monitors interest rate economic value of equity ("interest rate EVE") according to interest rate risk in the banking book ("IRRBB") methodology. Interest rate EVE means the maximum decrease in net asset value when interest rate changes, and details of changes in EVE as of December 31,2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|----------------|-------------------|-------------------|
| Changes in EVE | 1,655,929 | 411,681 |

9–3–2–2 Details of the financial instruments that have not been converted to an alternative indicator interest rate as of December 31, 2022 and 2021, are as follows (Korean won in millions):

(Korean won in millions)

| | Non-derivative financial assets(*1) | | | Non-derivative liabilities(* | | | Commitments and finance guarantee contracts (*2) | |
|--|-------------------------------------|-----------|--|------------------------------|-----------------|------------|--|--|
| Classification | measured measuredat Total | | Financial liabilites measuredat amortizedcosts | Total | Derivatives(*2) | | | |
| USDLondon Interbank OfferedRate ("LIBOR") | 32,245 | 5,236,730 | 5,268,975 | 1,393,822 | 1,393,822 | 72,946,982 | 40,438 | |

- (*1) The amount of non-derivative financial instruments is based on the book value
- (*2) The amount of derivatives is based on the nominal amount.
- (*3) For financial instruments related to USD-LIBOR, those with maturities before June 30, 2023, are excluded.

<December 31, 2021>

(Korean won in millions)

| | Non-deriva | ative financial assets(| *1) | Non-deriva financial liabiliti | | | Commitments and finance guarantee contracts (*2) | |
|----------------|--|---|-----------|--|-----------|-----------------|--|--|
| Classification | Financial assets measured at FVOCI | Financial assets measuredat amortized costs | Total | Financial liabilites measured at amortized costs | Total | Derivatives(*2) | | |
| USDLIBOR | 48,425 | 5,595,621 | 5,644,046 | 1,319,972 | 1,319,972 | 58,912,456 | 631,126 | |

- (*1) The amount of non-derivative financial instruments is based on the book value
- (*2) The amount of derivatives is based on the nominal amount.
- (*3) For financial instruments related to USD-LIBOR, those with maturities before June 30, 2023, are excluded.

9-3-2-3 Stock price risk

Stock price risk is the risk that the fair value of equities results in changes in the level of related revenue and capital. Effects on capital due to fluctuations in stock price risk as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

(Korean won in millions)

| Classification | 20% decline | 10% decline | 10% rise | 20% rise | |
|----------------|-------------|-------------|----------|----------|--|
| Stockpricerisk | (52,211) | (26,106) | 26,106 | 52,211 | |

<December 31, 2021>

(Korean won in millions)

| Classification | 20% decline | 10% decline | 10% rise | 20% rise | |
|----------------|-------------|-------------|----------|----------|--|
| Stockpricerisk | (98,040) | (49,020) | 49,020 | 98,040 | |

The Group measures the stock price risk on the domestic listed equity securities only.

9-3-3 Currency risk concentration

Currency risk is a risk incurred when the value of a financial instrument or future cash flows fluctuates due to the changes in foreign exchange rates. Currency risk arises from the financial instruments expressed in currencies other than the functional currency. Currency risk does not arise from the financial instruments expressed in the functional currency, measured based on historical currency, or in non-monetary items measured by using the historical foreign exchange rates. The Group manages the foreign exchange net exposure amount of the trading and non-trading positions by each currency.

Significant foreign currency assets and liabilities denominated in Korean won as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | USD | JPY | EUR | CNY | IDR | Others | Total |
|---|------------|-----------|-----------|------------|-----------|-----------|------------|
| Assets | | | | | | | |
| Cash and due from bank | 19,672,287 | 1,354,473 | 1,283,069 | 1,064,480 | 313,517 | 1,137,302 | 24,825,128 |
| Financial assets measured at FVTPL | 5,454,613 | 389,502 | 656,328 | 93,358 | 10,254 | 436,544 | 7,040,599 |
| Financial assets measured at FVOCI | 2,584,584 | - | - | 1,975,363 | 295,867 | 1,292,405 | 6,148,219 |
| Securities measured at amortized cost | 1,880,750 | - | 165,033 | 58,488 | 160,655 | 1,644,946 | 3,909,872 |
| Loans measuredat amortized cost | 26,134,296 | 1,751,839 | 4,648,700 | 6,873,532 | 1,439,045 | 4,934,226 | 45,781,638 |
| Derivative assets used for hedging | 20,459 | - | 193 | - | _ | - | 20,652 |
| Others | 3,367,759 | 176,096 | 351,893 | 333,968 | 49,282 | 523,602 | 4,802,600 |
| Total | 59,114,748 | 3,671,910 | 7,105,216 | 10,399,189 | 2,268,620 | 9,969,025 | 92,528,708 |
| Liabilities | | | | | | | |
| Financial liabilities measured at FVTPL | 2,784,580 | 294,180 | 136,457 | 17,268 | _ | 222,586 | 3,455,071 |
| Financial liabilities designated as measured at FVTPL | 1,969,910 | 385 | 9,430 | _ | _ | 9,091 | 1,988,816 |
| Deposits | 42,152,397 | 2,732,463 | 5,044,365 | 8,645,503 | 1,386,024 | 4,936,062 | 64,896,814 |
| Borrowings | 10,525,246 | 136,405 | 1,036,917 | 383,820 | 43,523 | 1,088,758 | 13,214,669 |
| Debentures | 5,281,339 | - | 827,921 | 336,151 | 19,709 | 239,891 | 6,705,011 |
| Derivative liabilities used for hedging | 246,333 | - | 9,044 | - | _ | - | 255,377 |
| Others | 6,192,605 | 217,709 | 681,816 | 501,470 | 38,205 | 323,356 | 7,955,161 |
| Total | 69,152,410 | 3,381,142 | 7,745,950 | 9,884,212 | 1,487,461 | 6,819,744 | 98,470,919 |

| Classification | USD | JPY | EUR | CNY | IDR | Others | Total |
|---|------------|-----------|-----------|------------|-----------|-----------|------------|
| Assets | | | | | | | |
| Cash and due frombank | 9,387,554 | 1,973,385 | 554,962 | 781,113 | 206,986 | 1,006,320 | 13,910,320 |
| Financial assets measured at FVTPL | 3,992,312 | 151,116 | 834,640 | 115,512 | 122,071 | 321,327 | 5,536,978 |
| Financial assets measured at FVOCI | 2,852,585 | - | - | 2,193,679 | 282,334 | 1,430,360 | 6,758,958 |
| Securities measured at amortized cost | 1,625,260 | - | 104,411 | 119,932 | 199,405 | 1,195,406 | 3,244,414 |
| Loans measuredat amortized cost | 23,921,730 | 1,906,806 | 4,009,683 | 6,853,211 | 1,449,769 | 4,067,343 | 42,208,542 |
| Derivative assets used for hedging | 57,747 | - | - | - | _ | - | 57,747 |
| Others | 3,795,944 | 234,531 | 443,485 | 139,047 | 49,171 | 514,839 | 5,177,017 |
| Total | 45,633,132 | 4,265,838 | 5,947,181 | 10,202,494 | 2,309,736 | 8,535,595 | 76,893,976 |
| Liabilities | | | | | | | |
| Financial liabilities measured at FVTPL | 926,610 | 20,327 | 76,237 | 3,332 | 1,252 | 159,470 | 1,187,228 |
| Financial liabilities designated as measured at FVTPL | 2,312,957 | - | 13,685 | - | - | 6,904 | 2,333,546 |
| Deposits | 31,150,254 | 2,332,032 | 4,068,677 | 7,667,956 | 1,396,788 | 4,907,220 | 51,522,927 |
| Borrowings | 6,404,445 | 128,189 | 1,283,632 | 435,611 | 3,882 | 846,133 | 9,101,892 |
| Debentures | 5,240,235 | - | 881,849 | 340,786 | 20,213 | 231,796 | 6,714,879 |
| Derivative liabilities used for hedging | 22,764 | - | 3,242 | - | - | - | 26,006 |
| Others | 5,341,727 | 518,474 | 1,171,299 | 232,302 | 18,638 | 390,756 | 7,673,196 |
| Total | 51,398,992 | 2,999,022 | 7,498,621 | 8,679,987 | 1,440,773 | 6,542,279 | 78,559,674 |

9-4 Operational risk

Operational risk is a risk of loss arising from systems failure, human error, fraud or other external events. Risks related to strategies or damaging reputation are excluded but legal or regulatory implications are identified as operational risks. Operational risk includes non-financial risks related to losses due to internal operational problems and externalities such as natural disasters and terrorist attacks. Operational risk does not have a direct correlation with income and the Group needs to mitigate such risk through internal controls and insurance

The Group measures and monitors its operational risks on a regular basis and complies with the predetermined risk limits, whereby the Group manages and controls its operational risk arising from changes of its operation environments and internal controls within an appropriate level. The Group's subsidiaries measures the operational risk exposures using their own approaches suitable to the relevant supervisory regulations of each industry and the group-level operational risk exposures are consistently calculated through the group-integrated risk management system. The Group reports its current status of operational risk management to the group risk management execution committee and group risk management committee on a monthly and quarterly basis.

9–5 Capital management

The Group implements the Bank of International Settlements ("BIS") capital requirement system in order to secure capital adequacy and comply with the supervisory regulations. The Group maintains appropriate capital ratio in accordance with BIS capital requirement system. In addition, the Group performs a capital adequacy assessment in order to cope with an unexpected loss.

Risk-weighted assets calculated per each risk type when calculating BIS ratio are as follows:

- a. Credit risk incurs when potential loss arises from default of a borrower or counterparty or downgrading of its credit rating Risk-weighted assets of credit risk of bank subsidiaries are calculated using the internal model approved by Financial Supervisory Service. Risk-weighted assets of credit risk are calculated by multiplying risk weights reflecting counterparty credit rating, maturity, collateral and guarantees granted according to the standardized model of Basel III.
- b. Market risk incurs when potential loss arises from the fluctuation of market price of stocks, interest rates and foreign currency rates. Risk-weighted assets of market risk are calculated by multiplying 12.5 to the required capital of market risk, which consists of the interest rate risk, equity price risk, foreign currency risk, commodity risk and option risk, according to the standardized model of Supervisory Regulations on Financial Holding Companies.
- c. Operational risk incurs when loss arises from systems failure, human error and business process. Risk-weighted assets of operational risk are calculated by multiplying 12.5 to the required capital of operational risk according to Detailed Regulations on Supervisory of Banking Business.

Regulatory capital and BIS ratios as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|----------------------------------|-------------------|-------------------|
| Common Equity Tier 1 capital | 31,592,690 | 30,001,299 |
| Additional Tier 1 capital | 3,494,640 | 2,983,389 |
| Subtotal(Tier1 capital) | 35,087,330 | 32,984,688 |
| Tier 2 capital | 2,547,376 | 2,490,969 |
| Total(total capital) | 37,634,706 | 35,475,657 |
| Risk-weightedassets: | | |
| Credit risk-weighted assets | 208,160,882 | 189,389,595 |
| Market risk-weighted assets | 14,064,799 | 11,996,151 |
| Operational risk-weighted assets | 17,887,065 | 16,382,247 |
| Total | 240,112,746 | 217,767,993 |
| BIS capital ratio: | | |
| Common Equity Tier 1 ratio | 13.16% | 13.78% |
| Additional Tier 1 capital ratio | 14.61% | 15.15% |
| Total capital ratio | 15.67% | 16.29% |

9-5-1 Assessment and management of reasonableness of internal capital

Internal capital is defined as capital defined for internal management purposes to determine whether a financial institution has a level of capital that can cover possible risks in its portfolio.

The purpose of the Group's internal capital management is to adjust the operating portfolio to maximize risk-to-return while controlling the possibility of loss from investment operations within a certain level, and to compare the size of internal capital with the actual available capital ("Tier 1"). The Group use the internal capital management indicators as a measure of financial soundness comparing the internal capital with actual available capital ("Tier 1 capital"). The indicators consist of risk appetite ratio which is the ratio of the internal capital to Tier 1 capital, and exhaustion ratio, which is the ratio of the amount of internal capital used against the internal capital limits.

Internal capital limits are established after accounting for the size of current and subsequent Tier 1 capital as well as the components, quality, risk appetite, target credit rating, operational strategy and business plans. The Risk Committee determines risk types and internal capital limits for HFG and each subsidiary more than once a year. In the case where new operations or expansion of operations result in the amount exceeding the internal capital limits, an approval from the Risk Committee is needed beforehand. If such a situation occurs in cases outlined as exceptions, an approval from the Risk Committee is needed for the information on exceeded amount and post hoc results, as well as subsequent plans.

10. OPERATING SEGMENTS INFORMATION 10-1 GENERAL INFORMATION

The Group is organized into four operating segments based on its financial information of each legal entity used for making decisions about resources to be allocated to the segment and assessing its performance. Details of operating segments are presented as follows 1) Hana Bank and its subsidiaries (Banking); 2) Hana Securities and its subsidiaries (Financial Investing); 3) KEB Hana Card and its subsidiaries (Credit Card) and 4) Others (consist of Hana Financial Group's separate performance and its other subsidiaries such as Hana Capital, Hana Asset Trust, Hana TI, Hana Ventures, Hana Savings Bank, Hana Life Insurance, Hana Alternative Asset Management, HIS, Hana Insurance Co., Ltd. and others)

10-2 Income or loss by operating segments

10-2-1 Details of net income, assets and liabilities by operating segments for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<For the year ended December 31, 2022>

(Korean won in millions)

| Classification | Hana Bank | Hana Securities | KEB Hana Card | Others | Subtotal | Adjustments | Total | | |
|---------------------------------------|---------------------------------------|--------------------|------------------|------------|-------------|--------------|-------------|--|--|
| Operating segment income and los | Operatingsegment income and loss (*): | | | | | | | | |
| Net interest income | 7,608,678 | 340,509 | 395,401 | 573,493 | 8,918,081 | 1,682 | 8,919,763 | | |
| Interestincome | 13,347,231 | 879,333 | 571,184 | 1,115,158 | 15,912,906 | (36,326) | 15,876,580 | | |
| Interest expense | (5,738,553) | (538,824) | (175,783) | (541,665) | (6,994,825) | 38,008 | (6,956,817) | | |
| Net fee and commission income (loss) | 593,612 | 363,916 | 225,499 | 574,676 | 1,757,703 | (2,784) | 1,754,919 | | |
| Fee and commission income | 874,721 | 494,808 | 766,115 | 676,478 | 2,812,122 | (76,322) | 2,735,800 | | |
| Fee and commission expense | (281,109) | (130,892) | (540,616) | (101,802) | (1,054,419) | 73,538 | (980,881) | | |
| Others | 520,098 | 60,958 | 90,758 | 1,556,535 | 2,228,349 | (1,428,172) | 800,177 | | |
| Total operating income (loss) | 8,722,388 | 765,383 | 711,658 | 2,704,704 | 12,904,133 | (1,429,274) | 11,474,859 | | |
| Impairment loss on financial assets | (657,650) | (149,044) | (212,846) | (165,428) | (1,184,968) | (1,830) | (1,186,798) | | |
| Net operating income (loss) | 8,064,738 | 616,339 | 498,812 | 2,539,276 | 11,719,165 | (1,431,104) | 10,288,061 | | |
| General and administrative expenses | (3,318,831) | (534,022) | (245,480) | (534,616) | (4,632,949) | 200,000 | (4,432,949) | | |
| Net other operating income (loss) | (679,304) | 14,315 | (6,074) | (303,935) | (974,998) | (189,802) | (1,164,800) | | |
| Operatingincome (loss) | 4,066,603 | 96,632 | 247,258 | 1,700,725 | 6,111,218 | (1,420,906) | 4,690,312 | | |
| Net other non-operating income (loss) | 104,883 | 65,670 | (711) | 194,553 | 364,395 | (110,641) | 253,754 | | |
| Incometax expenses (income) | (1,059,787) | (31,657) | (54,566) | (201,394) | (1,347,404) | 24,532 | (1,322,872) | | |
| Net income (loss) | 3,111,699 | 130,645 | 191,981 | 1,693,884 | 5,128,209 | (1,507,015) | 3,621,194 | | |
| Total assets (*) | 485,308,744 | 43,345,325 | 12,284,060 | 57,077,998 | 598,016,127 | (29,142,928) | 568,873,199 | | |
| Total liabilities (*) | 455,343,376 | 37,539,264 | 10,067,212 | 32,188,109 | 535,137,961 | (3,683,651) | 531,454,310 | | |

^(*) The amount of net income or loss, asset and liabilities by the operating segments does not consider the transaction amount between the segments.

<For the year ended December 31, 2021>

| Classification | Hana Bank | Hana Securities | KEB Hana Card | Others | Subtotal | Adjustments | Total |
|--------------------------------------|-------------|--------------------|------------------|-----------|-------------|-------------|-------------|
| Operating segment income and los | ss(*): | | | | | | |
| Net interest income (loss) | 6,150,597 | 291,749 | 471,974 | 524,608 | 7,438,928 | (1,723) | 7,437,205 |
| Interestincome | 8,786,664 | 595,099 | 587,624 | 918,542 | 10,887,929 | (20,438) | 10,867,491 |
| Interest expense | (2,636,067) | (303,350) | (115,650) | (393,934) | (3,449,001) | 18,715 | (3,430,286) |
| Net fee and commission income (loss) | 552,794 | 553,955 | 232,595 | 409,054 | 1,748,398 | (6,681) | 1,741,717 |
| Fee and commission income | 837,624 | 685,482 | 682,944 | 523,171 | 2,729,221 | (76,035) | 2,653,186 |
| Fee and commission expense | (284,830) | (131,527) | (450,349) | (114,117) | (980,823) | 69,354 | (911,469) |
| Others | 545,724 | 239,421 | 45,226 | 1,525,891 | 2,356,262 | (1,398,313) | 957,949 |



| Classification | Hana Bank | Hana Securities | KEB Hana Card | Others | Subtotal | Adjustments | Total |
|---------------------------------------|-------------|--------------------|------------------|------------|-------------|-------------|-------------|
| Total operating income (loss) | 7,249,115 | 1,085,125 | 749,795 | 2,459,553 | 11,543,588 | (1,406,717) | 10,136,871 |
| Impairment loss on financial assets | (243,338) | (3,446) | (188,173) | (98,805) | (533,762) | 544 | (533,218) |
| Net operating income (loss) | 7,005,777 | 1,081,679 | 561,622 | 2,360,748 | 11,009,826 | (1,406,173) | 9,603,653 |
| General and administrative expenses | (2,973,063) | (575,010) | (221,898) | (434,925) | (4,204,896) | 154,436 | (4,050,460) |
| Net other operating income (loss) | (614,276) | (15,159) | 4,735 | (147,028) | (771,728) | (150,369) | (922,097) |
| Operating income (loss) | 3,418,438 | 491,510 | 344,459 | 1,778,795 | 6,033,202 | (1,402,106) | 4,631,096 |
| Net other non-operating income (loss) | 60,036 | 181,914 | (1,739) | 46,562 | 286,773 | (12,944) | 273,829 |
| Incometax expenses | (902,728) | (167,431) | (92,236) | (176,964) | (1,339,359) | 16,016 | (1,323,343) |
| Net income (loss) | 2,575,746 | 505,993 | 250,484 | 1,648,393 | 4,980,616 | (1,399,034) | 3,581,582 |
| Total assets(*) | 430,193,576 | 37,614,683 | 9,596,474 | 51,769,924 | 529,174,657 | 26,729,387) | 502,445,270 |
| Total liabilities(*) | 401,437,105 | 32,323,652 | 7,565,896 | 28,803,826 | 470,130,479 | (3,184,549) | 466,945,930 |

^(*) The amount of net income or loss, asset and liabilities by the operating segments does not consider the transaction amount between the segments.

10-2-2 The operating income or loss from external customers and internal transactions for the years ended December 31, 2022 and 2021, is as follows (Korean won in millions):

<For the year ended December 31, 2022>

(Korean won in millions)

| Classification | Hana Bank | Hana Securities | KEB Hana Card | Others | Subtotal | Adjustments | Total |
|--|-----------|--------------------|------------------|-----------|------------|-------------|------------|
| Revenue (expense) fromex ternal customers | 8,780,159 | 676,646 | 747,801 | 1,270,253 | 11,474,859 | 1 | 11,474,859 |
| Revenue (expense) fromint ernal transactions | (57,771) | 88,737 | (36,143) | 1,434,451 | 1,429,274 | (1,429,274) | _ |
| Total | 8,722,388 | 765,383 | 711,658 | 2,704,704 | 12,904,133 | (1,429,274) | 11,474,859 |

<For the year ended December 31, 2021>

(Korean won in millions)

| Classification | Hana Bank | Hana Securities | KEBHana Card | Others | Subtotal | Adjustments | Total |
|--|-----------|--------------------|-----------------|-----------|------------|-------------|------------|
| Revenue (expense) fromex ternal customers | 7,165,349 | 1,132,653 | 780,850 | 1,058,019 | 10,136,871 | | 10,136,871 |
| Revenue (expense) fromint ernal transactions | 83,766 | (47,528) | (31,055) | 1,401,534 | 1,406,717 | (1,406,717) | _ |
| Total | 7,249,115 | 1,085,125 | 749,795 | 2,459,553 | 11,543,588 | (1,406,717) | 10,136,871 |

10-2-3 Significant non-cash transactions included in income of operating segments for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<For the year ended December 31, 2022>

(Korean won in millions)

| Classification | Hana Bank | Hana Securities | KEBHana Card | Others | Subtotal | Adjustments | Total |
|-------------------------------|-----------|--------------------|-----------------|-----------|-----------|-------------|-----------|
| Gain(loss) on equity method | 189,012 | 29,973 | 1,949 | 5,631 | 226,565 | 6,601 | 233,166 |
| Depreciation and amortization | (465,048) | (48,509) | (37,354) | (397,209) | (948,120) | 16,059 | (932,061) |

<For the year ended December 31, 2021>

(Korean won in millions)

| Classification | Hana Bank | Hana Securities | KEBHana Card | Others | Subtotal | Adjustments | Total |
|-------------------------------|-----------|--------------------|-----------------|-----------|-----------|-------------|-----------|
| Gain(loss) on equity method | 127,673 | (5,477) | 2,070 | 6,445 | 130,711 | 269 | 130,980 |
| Depreciation and amortization | (451,498) | (51,119) | (30,079) | (240,756) | (773,452) | 4,665 | (768,787) |

10-3 Information about regions

Revenue by region from the external customers for the years ended December 31, 2022 and 2021, and non current assets by region as of December 31, 2022 and 2021 are as follows (Korean won in millions):

| Ol ifi ti | Revenues fromext | ernal customers | Non-curre | ent assets |
|----------------|------------------|-----------------|-------------------|-------------------|
| Classification | 2022 | 2021 | December 31, 2022 | December 31, 2021 |
| Domestic | 11,853,441 | 10,672,518 | 7,499,536 | 5,408,606 |
| Foreign: | | | | |
| HongKong | 72,199 | 63,976 | 5,320 | 3,997 |
| Singapore | 60,917 | 46,801 | 1,943 | 1,563 |
| UnitedStates | 68,959 | 49,686 | 29,170 | 6,872 |
| Japan | 36,539 | 29,060 | 3,486 | 3,894 |
| China | 230,305 | 229,228 | 62,992 | 63,523 |
| Indonesia | 201,009 | 195,281 | 59,288 | 67,821 |
| UnitedKingdom | 45,130 | 30,625 | 2,601 | 2,626 |
| Canada | 50,743 | 32,851 | 11,274 | 10,809 |
| Others | 284,891 | 193,562 | 19,263 | 18,323 |
| Subtotal | 1,050,692 | 871,070 | 195,337 | 179,428 |
| Adjustments | (1,429,274) | (1,406,717) | (331,308) | (244,310) |
| Total | 11,474,859 | 10,136,871 | 7,363,565 | 5,343,724 |

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Non-current assets consist of property and equipment, investment properties and intangible assets and are classified as either domestic or overseas depending on its geographic proximity.

10-4 Information about major customers

There are no individual customers who account for more than 10% of the Group's consolidated revenue for the years ended December 31, 2022 and 2021.

11. CASH AND DUE FROM BANKS

Cash and due from banks as of December 31, 2022 and 2021, are as follows

(Korean won in millions)

| Classification | Counterparty | December 31, 2022 | December 31, 2021 |
|---|------------------------------|-------------------|-------------------|
| Cash and foreign currency | | 1,904,911 | 2,031,147 |
| Due frombanks in Korean won | | | |
| Reserve deposits with Bank of Korea ("BOK"), etc. | BOK, etc. | 16,119,619 | 13,199,451 |
| Time deposits, etc. | Other banks | 224,939 | 281,200 |
| Other deposits | Other financial institutions | 3,237,506 | 2,446,061 |
| Subtotal | | 19,582,064 | 15,926,712 |
| Due frombanks in foreign currencies | | | |
| Due frombanks on demand | BOK, etc. | 11,590,380 | 7,815,953 |
| Time deposits | ICICI Bank, etc. | 1,147,224 | 971,559 |
| Other deposits | Other financial institutions | 11,531,530 | 4,661,225 |
| Subtotal | | 24,269,134 | 13,448,737 |
| Total | | 45,756,109 | 31,406,596 |

11–2 Restricted balances in due from banks as of December 31, 2022 and 2021, are summarized as follows (Korean won in millions):

| | December31, | December 31, | |
|------------------------------|-------------|--------------|---|
| Classification | 2022 | 2021 | Restrictions |
| Due frombanks in | | | |
| Koreanwon | | | |
| Reserve deposits | 16,036,240 | 13,102,451 | Reserve deposits from the Banking Act and the Bank of Korea Act, currency stabilization |
| with BOK, etc. | 10,000,240 | 10,102,401 | account, reserve and domestic exchange transaction collateral |
| Reserve for futures trading | 110,013 | - | Marginfortradingaccount |
| Reserve for claims of | | | Canital modulation, year dation on hydrograph using a of a quitting appropriate |
| customers' deposits | 412,000 | 293,000 | Capital market law, regulation on brokerage business of securities company, etc. |
| Otherdeposits | 1,573,222 | 936,896 | For the right of pledge, etc. |
| Subtotal | 18,131,475 | 14,332,347 | |
| Due frombanks in | | | |
| foreign currencies | | | |
| Deposits inforeign | | | Reserve for payment of deposits from the Banking |
| currencies in other branches | 9,596,193 | 5,883,930 | Act and the Bank of Korea Act |
| Otherdeposits | 10,100,883 | 4,150,948 | Over-the-counter ("OTC") derivative contracts, etc. |
| Subtotal | 19,697,076 | 10,034,878 | |
| Total | 37,828,551 | 24,367,225 | |

12. FINANCIAL ASSETS MEASURED AT FVTPL

Financial assets measured at FVTPL as of December 31, 2022 and 2021, are as follows (Korean won in millions)

| Classification | December 31, 2022 | December 31, 2021 |
|--|-------------------|-------------------|
| Stocks | 609,892 | 483,000 |
| Investments in partnerships | 652,382 | 464,596 |
| Government and public bonds | 5,037,314 | 2,828,697 |
| Financial bonds | 6,873,159 | 7,240,570 |
| Corporate bonds and others | 8,913,209 | 5,465,545 |
| Beneficiary certificates | 8,388,332 | 7,434,923 |
| Other securities denominated in Korean won | 277,194 | 293,367 |
| Securities denominated in foreign currencies | 4,851,537 | 4,860,918 |
| Derivative linked securities | 311,695 | 474,891 |
| Derivative assets held for trading(*) | 12,633,226 | 5,288,975 |
| Loans | 1,227,865 | 1,898,878 |
| Others | 1,383,000 | 1,983,925 |
| Total | 51,158,805 | 38,718,285 |

(*) Refers to Note 17. Derivatives instruments



13. FINANCIAL ASSETS MEASURED AT FVOCI

13–1 Details of financial assets measured at FVOCI as of December 31, 2022 and 2021 are as follows (Koreanwon in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|--|-------------------|-------------------|
| Stocks | 994,619 | 977,270 |
| Investments in partnerships | 748 | 773 |
| Government and public bonds | 11,352,572 | 11,253,235 |
| Financial bonds | 12,349,570 | 14,143,886 |
| Corporate bonds | 6,428,912 | 6,229,311 |
| Other securities denominated in Korean won | 89,132 | 80,334 |
| Securities denominated in foreign currencies | 6,154,625 | 6,788,720 |
| Total | 37,370,178 | 39,473,529 |

13–2 Details of shares(including shares in foreign currencies) included in financial assets measured at FVOCI as of December 31, 2022 and 2021, are as follows

<December 31, 2022>

| Counterparty | Bookvalue (fairvalue) |
|---|-----------------------|
| UAMCO., Ltd. | 188,721 |
| Daewoo Shipbuilding&Marine Engineering Co., Ltd. etc. | 170,845 |
| KRX | 163,428 |
| The Korea Securities Finance Corporation | 135,479 |
| SKTELECOMCO.,LTD | 61,974 |
| Consumer Credit Assistant FundCo., Ltd. | 50,942 |
| Taihan Electric Wire Co., Ltd. | 46,131 |
| STX Engine (perpetual convertible bonds) | 45,207 |
| KCI | 43,924 |
| SKSquare Co., Ltd. | 25,733 |
| KoData Co., Ltd | 20,111 |
| HMM | 17,387 |
| Korea Asset Management Corporation | 15,737 |
| Korea Money Brokerage Corp | 11,620 |
| BCCardCo., Ltd. | 10,604 |

| Counterparty | Bookvalue (fairvalue) |
|-----------------------------|-----------------------|
| HJCCORP. | 9,817 |
| KGDongbu Steel Co., Ltd. | 8,387 |
| Korea Securities Depository | 8,216 |
| Kumho Tire Co., Inc. | 6,748 |
| DBASSETMANAGEMENT CO., LTD | 5,713 |
| CLS GROUP HOLDINGS AG | 5,038 |
| Others | 39,142 |
| Total | 1,090,904 |

<December 31, 2021>

| Counterparty | Bookvalue (fairvalue) |
|---|-----------------------|
| Daewoo Shipbuilding & Marine Engineering Co., Ltd. etc. | 207,809 |
| UAMCO., Ltd | 176,628 |
| KRX | 148,732 |
| The Korea Securities Finance Corporation | 139,872 |
| Consumer Credit Assistant Fund Co., Ltd. | 84,067 |
| KCI | 56,454 |
| Taihan Electric Wire Co., Ltd. | 54,925 |
| НММ | 23,924 |
| STX Engine (perpetual convertible bonds) | 23,877 |
| CMInternational | 23,710 |
| KGDongbu Steel Co., Ltd. | 20,908 |
| Korea Asset Management Corporation | 15,737 |
| Korea Enterprise Data | 14,330 |
| Korea Money Brokerage Corp | 13,789 |
| Kumho Tire Co., Inc. | 11,190 |
| BCCardCo., Ltd. | 9,784 |
| HJCCORP. | 8,271 |
| Korea Securities Depository | 7,964 |
| DBASSETMANAGEMENT CO., LTD | 5,698 |
| CLS GROUP HOLDINGS AG | 4,761 |
| DaelimConstructionCo. | 4,586 |
| Others | 31,123 |
| Total | 1,088,139 |

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Equity instruments that are held for strategic alliances, not for trading, converted from debt instruments and acquired for access rights of systems and facilities are designated as measured at FVOCI.

13–3 Details of disposal of shares (including shares in foreign currencies) included in financial assets measured at FVOCI for the years December 31, 2022 and 2021, are as follows (Korean won in millions):

<2022>

| Counterparty | Bookvalue | Cumulative valuation gain (loss) (*) | Reason for disposal |
|------------------------------------|-----------|--------------------------------------|---|
| KG DONGBUSTEEL CO., LTD. | 20,980 | (3,806) | Decision of Council of Financial creditors |
| ChinHunginternational, Inc | 3,280 | (1,320) | Decision of Council of Financial creditors |
| Taihan Electric Wire Co., Ltd. 55R | 1,174 | 1,174 | Decision of Council of Financial creditors |
| Others | 659 | 259 | |
| Total | 26,093 | (3,693) | |

^(*) Cumulative gain or loss is replaced with retained earnings.

<2021>

| Counterparty | Bookvalue | Cumulative valuation gain (loss) (*) | Reason for disposal |
|--|-----------|--------------------------------------|---|
| НММ | 146,293 | 110,760 | Decision of Council of Financial creditors |
| Hanjin Heavy Industries & Construction Co., Ltd. | 40,747 | (36,905) | Decision of Council of Financial creditors |
| ChinHunginternational, Inc | 12,700 | (2,915) | Decision of Council of Financial creditors |
| Taihan Electric Wire Co., Ltd. | 12,111 | (28,391) | Decision of Council of Financial creditors |
| Koramco REITs Management and Trust Co., Ltd. | 9,327 | 8,952 | Sales due to reduced effectiveness of strategic investment through business partnership |
| Kumgo Electric | 1,672 | (1,353) | Decision of Council of Financial creditors |
| Others | 3,508 | 917 | |
| Total | 226,358 | 51,065 | |

^(*) Cumulative gain or loss is replaced with retained earnings.

13-4 Dividends recognized from financial assets measured at FVOCI for the years ended December 31, 2022 and 2021, are as follows

(Korean won in millions)

| Classification | 2022 | 2021 |
|---|--------|--------|
| Dividends recognized from equity instruments held as of December 31 2022 and 2021 | 13,831 | 10,661 |
| Dividends recognized from equity instruments derecognized | - | 133 |
| Total | 13,831 | 10,794 |

13-5 Changes in the loss allowance in relation to financial assets measured at FVOCI for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<2022>

| | | Lifetin | ne ELC | |
|---|-------------|------------------------------------|---------------------------------|---------|
| Classification | 12month ELC | Noncredit-impaired debt securities | Credit-impaired debt securities | Total |
| Beginningbalance | 12,278 | _ | - | 12,278 |
| Provision (reversal) for possible loan losses | 2,556 | 1 | 1 | 2,556 |
| Newfinancial assets executed or purchased | 315 | | | 315 |
| Disposal financial assets | (3,232) | _ | - | (3,232) |
| Exchange rate fluctuation and others | 454 | _ | - | 454 |
| Ending balance | 12,371 | _ | - | 12,371 |

<2021>

| | | Lifetime ELC | | |
|---|--------------|------------------------------------|---------------------------------|---------|
| Classification | 12 month ELC | Noncredit-impaired debt securities | Credit-impaired debt securities | Total |
| Beginningbalance | 10,859 | - | - | 10,859 |
| Provision (reversal) for possible loan losses | 4,982 | - | - | 4,982 |
| Newfinancial assets executed or purchased | 693 | - | - | 693 |
| Disposal financial assets | (5,739) | - | - | (5,739) |
| Exchange rate fluctuation and others | 1,483 | - | - | 1,483 |
| Ending balance | 12,278 | - | _ | 12,278 |

13-6 Changes in the carrying amount in relation to financial assets measured at FVOCI for the years ended December31, 2022 and 2021, are as follows (Korean won in millions):

<2022>

| | | Lifetime ELC | | | |
|---|--------------|------------------------------------|---------------------------------|--------------|--|
| Classification | 12 month ELC | Noncredit-impaired debt securities | Credit-impaired debt securities | Total | |
| Beginning balance | 38,385,390 | _ | _ | 38,385,390 | |
| Newfinancial assets executed or purchased | 11,746,883 | _ | _ | 11,746,883 | |
| Disposed financial assets | (12,681,524) | - | _ | (12,681,524) | |
| Exchange rate fluctuation and others | (1,171,475) | _ | _ | (1,171,475) | |
| Ending balance | 36,279,274 | _ | _ | 36,279,274 | |

<2021>

| | | Lifetime ELC | | |
|---|--------------|------------------------------------|---------------------------------|--------------|
| Classification | 12 month ELC | Noncredit-impaired debt securities | Credit-impaired debt securities | Total |
| Beginning balance | 34,883,331 | _ | _ | 34,883,331 |
| Newfinancial assets executed or purchased | 21,641,073 | | _ | 21,641,073 |
| Disposed financial assets | (17,957,206) | | _ | (17,957,206) |
| Exchange rate fluctuation and others | (181,808) | _ | - | (181,808) |
| Ending balance | 38,385,390 | _ | _ | 38,385,390 |

14. SECURITIES MEASURED AT AMORTIZED COST

14-1 Details of securities measured at amortized cost as of December 31, 2022 and 2021, are as follows:

(Korean won in millions)

| Classification | December 31, 2022 | December 31, 2021 |
|--|-------------------|-------------------|
| Government and public bonds | 8,084,050 | 6,695,621 |
| Financial bonds | 7,991,991 | 1,483,330 |
| Corporate bonds and others | 18,954,431 | 12,352,368 |
| Securities denominated in foreign currencies | 3,981,688 | 3,257,456 |
| Allowance for credit losses | (83,249) | (19,758) |
| Total | 38,928,911 | 23,769,017 |

14–2 Profit or loss from disposal of securities at amortized cost for the years ended December 31, 2022 and 2021, are as follows:

(Korean won in millions)

<2022>

| Classification | Face amount | Bookvalue | Amount of profit from disposal |
|----------------------------|-------------|-----------|--------------------------------|
| Corporate bonds and others | 7,800 | 7,796 | 4 |

The Group disposed of some securities at amortized cost in accordance with the exercise of an option (put option) by the issuer of the securities for the year ended December 31, 2022.

<2021>

| Classification | Face amount | Bookvalue | Amount of profit from disposal |
|----------------------------|-------------|-----------|--------------------------------|
| Corporate bonds and others | 28,900 | 28,880 | 20 |

The Group disposed of some securities at amortized cost in accordance with the exercise of an option (put option) by the issuer of the securities for the year ended December 31, 2021.

14–3 Changes in provision for allowance for loan losses in relation to securities measured at amortized cost for the years ended December 31, 2022 and 2021, are as follows:

(Korean won in millions)

<2022>

| | 12month expected - credit loss | Lifetime expected credit losses | | |
|--|--------------------------------|---------------------------------|-----------------------|---------|
| Classification | | Non credit- impaired loans | Credit-impaired loans | Total |
| Beginningbalance | 8,557 | 11,200 | _ | 19,757 |
| Transfer to non credit-impaired financial assets | _ | (8,470) | 8,470 | _ |
| Provision for possible loan losses | 5,506 | 3,007 | 58,940 | 67,453 |
| Disposed financial assets | (507) | - | - | (507) |
| Exchange rate fluctuation and others | (48) | 35 | (3,441) | (3,454) |
| Ending balance | 13,508 | 5,772 | 63,969 | 83,249 |

<2021>

| Classification | 12monthexpected creditloss | Lifetime expect | | |
|--|----------------------------|-------------------------------|-----------------------|---------|
| | | Non credit- impaired loans | Credit-impaired loans | Total |
| Beginning balance | 10,090 | - | - | 10,090 |
| Transfer to non credit-impaired financial assets | (4,062) | 4,062 | _ | _ |
| Provision for possible loan losses | 5,489 | 6,603 | _ | 12,092 |
| Disposed financial assets | (1,561) | (245) | _ | (1,806) |
| Exchange rate fluctuation and others | (1,399) | 780 | _ | (619) |
| Ending balance | 8,557 | 11,200 | - | 19,757 |

14–4 Changes in the carrying amount in relation to securities measured at amortized cost for years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<2022>

| Classification | 12month expected credit loss | Lifetime expect | | |
|--|------------------------------|-------------------------------|-----------------------|-------------|
| | | Non credit- impaired loans | Credit-impaired loans | Total |
| Beginning balance | 23,694,834 | 93,940 | _ | 23,788,774 |
| Transfer to non credit-impaired financial assets | _ | (68,827) | 68,827 | - |
| Newfinancial assets executed or purchased | 16,822,097 | - | _ | 16,822,097 |
| Disposed financial assets | (1,674,801) | - | _ | (1,674,801) |
| Exchange rate fluctuation and others | 78,187 | (606) | (1,491) | 76,090 |
| Endingbalance | 38,920,317 | 24,507 | 67,336 | 39,012,160 |

<2021>

| Classification | 12 month expected credit loss | Lifetime expect | | |
|--|-------------------------------|-------------------------------|-----------------------|-------------|
| | | Non credit- impaired loans | Credit-impaired loans | Total |
| Beginning balance | 18,386,747 | _ | _ | 18,386,747 |
| Transfer to non credit-impaired financial assets | (112,583) | 112,583 | _ | _ |
| Newfinancial assets executed or purchased | 10,395,043 | - | - | 10,395,043 |
| Disposed financial assets | (5,127,492) | (28,354) | _ | (5,155,846) |
| Exchange rate fluctuation and others | 153,119 | 9,711 | - | 162,830 |
| Ending balance | 23,694,834 | 93,940 | - | 23,788,774 |

15. PLEDGED ASSET

15–1 Details of assets provided as collateral as of the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | Details | BookValue |
|--------------------------------------|-----------------------------------|------------|
| | Pledgedsecurities | 6,745,131 |
| | Derivative instruments | 2,434,424 |
| Financial assets measured | KRX, etc. | 164,082 |
| at FVTPL | Client RP | 6,733,265 |
| | Others | 555,915 |
| | Subtotal | 16,632,817 |
| | Futures | 374,368 |
| | Daylight credit | 272,486 |
| | Client RP | 1,226,326 |
| | Pledgedsecurities | 2,129,311 |
| Financial assets measured | BOKpayment | 39,707 |
| at FVOCI | Borrowings from BOK | 1,240,667 |
| | Collateral for securities lending | 78,084 |
| | Others | 3,057,069 |
| | Subtotal | 8,418,018 |
| | Foreign currency borrowing | 484,066 |
| | Establishment of a pledge right | 10,155 |
| | Futures | 10,000 |
| | BOKpayment | 2,905,847 |
| Securities measuredat amortized cost | Daylight credit | 373,511 |
| | Borrowings from BOK | 4,719,163 |
| | Pledgedsecurities | 1,149,955 |
| | Others | 1,151,860 |
| | Subtotal | 10,804,557 |
| Loans measured at amortized cost | Borrowings | 475,051 |
| Tot | 36,330,443 | |

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| Classification | Details | BookValue | |
|------------------------------------|---------------------------------|------------|--|
| | Pledgedsecurities | 5,766,635 | |
| | Derivative instruments | 1,486,824 | |
| Financial assets measured | KRX, etc. | 393,312 | |
| at FVTPL | ClientRP | 6,513,651 | |
| | Others | 46,608 | |
| | Subtotal | 14,207,030 | |
| | Futures | 202,927 | |
| | Daylight credit | 277,657 | |
| | Client RP | 1,245,539 | |
| | Foreign currency | 203,962 | |
| Financial assets measured at FVOCI | Pledgedsecurities | 2,541,827 | |
| | BOKpayment | 1,871,226 | |
| | Borrowings fromBOK | 829,803 | |
| | Others | 733,625 | |
| | Subtotal | 7,906,566 | |
| | Foreign currency borrowing | 910,097 | |
| | Establishment of a pledge right | 10,199 | |
| | Futures | 100,047 | |
| | BOKpayment | 2,313,892 | |
| Securities measured at | Daylight credit | 372,940 | |
| amortizedcost | Client RP | 50 | |
| | Borrowings fromBOK | 4,311,268 | |
| | Pledgedsecurities | 59,586 | |
| | Others | 427,638 | |
| | Subtotal | 8,505,717 | |
| Loans measured at amortized cost | Borrowings | 474,805 | |
| Property and equipment | Rental deposit | 523 | |
| To | Total | | |



15–2 The fair value of collateral that is available–for–sale and re–pledge, irrespective of default as of December 31, 2022 and 2021, is as follows (Korean won in millions):

<December 31, 2022>

| Classification | Fair value of collateral | Fair value of collateral sold or re-pledged |
|----------------|--------------------------|---|
| Securities | 14,777,597 | 4,229,813 |
| Deposits | 639,297 | _ |

<December 31, 2021>

| Classification | Fair value of collateral | Fair value of collateral sold or re-pledged |
|----------------|--------------------------|---|
| Securities | 13,988,194 | 1,015,450 |
| Deposits | 336,619 | - |

16. LOANS AND RECEIVABLES MEASURED AT AMORTIZED COST

16-1 Details of loans and receivables measured at amortized cost as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|--|-------------------|-------------------|
| Loans and receivables: | | |
| Loans in Korean won | 292,021,797 | 272,786,199 |
| Loans in foreign currencies | 32,507,537 | 28,782,642 |
| Domestic import usance | 4,546,348 | 4,188,861 |
| Call loans | 1,377,862 | 1,288,673 |
| Bills purchased in Korean won | 1,235,390 | 187,361 |
| Bills purchased in foreign currencies | 5,289,419 | 5,799,103 |
| Advance payments on acceptances and guarantees | 5,533 | 12,083 |
| Credit cardloans | 9,278,288 | 8,023,704 |
| Bonds purchased under resale agreement | 12,306,702 | 11,676,882 |
| Installment receivables purchased | 777,910 | 808,625 |

| Classification | December 31, 2022 | December 31, 2021 |
|----------------------------------|-------------------|-------------------|
| Privately placed corporate bonds | 2,230,400 | 2,821,097 |
| Leasereceivables | 1,935,922 | 2,472,994 |
| Subtotal | 363,513,108 | 338,848,224 |
| Plus (less): | | |
| Deferredloan fees | 410,522 | 420,682 |
| Present value discount | (18,866) | (5,231) |
| Allowance for loan losses | (2,419,868) | (1,914,402) |
| Total | 361,484,896 | 337,349,273 |

16–2 Loans measured at amortized cost to customer as of December 31, 2022 and 2021 are listed as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|---------------------------|-------------------|-------------------|
| Corporate loans: | | |
| Large business | 49,956,307 | 41,727,560 |
| Small and medium business | 135,518,988 | 123,156,797 |
| Public sector and others | 28,107,386 | 24,178,649 |
| Subtotal | 213,582,681 | 189,063,006 |
| Householdloans | 140,666,457 | 141,783,269 |
| Credit card loans | 9,263,970 | 8,001,949 |
| Subtotal | 363,513,108 | 338,848,224 |
| Plus (less): | | |
| Deferredloanfees | 410,522 | 420,682 |
| Present value discount | (18,866) | (5,231) |
| Allowance for loan losses | (2,419,868) | (1,914,402) |
| Total | 361,484,896 | 337,349,273 |

16–3 Changes in allowance for possible loan losses for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<2022>

| Classification | | Lifetime ECL | | Credit | |
|---|-------------|-------------------------|---------------------|------------------|-----------|
| | 12month ECL | Noncredit-impaired loan | Credit-impairedloan | impairment model | Total |
| As of January 1, 2022 | 590,313 | 740,738 | 549,222 | 34,129 | 1,914,402 |
| Transfer to 12 month ECL | 55,320 | (52,168) | (3,152) | - | - |
| Transfer to noncredit-impaired financial assets | (48,366) | 50,839 | (2,473) | - | - |
| Transfer to credit-impaired loan | (117,389) | (89,926) | 207,315 | - | - |
| Provisions of allowance of possible loan losses | 312,933 | 301,169 | 475,812 | 12,296 | 1,102,210 |
| Write-offs | 1 | 22 | (690,727) | - | (690,704) |
| Collection of loans written off | _ | - | 144,072 | - | 144,072 |
| Disposal of NPLs | _ | _ | (61,452) | (470) | (61,922) |
| Changes in exchange rate, etc. | 12,227 | 3,584 | (4,001) | - | 11,810 |
| As of December 31, 2022 | 805,039 | 954,258 | 614,616 | 45,955 | 2,419,868 |

<2021>

| Classification | | Lifetime ECL | | Credit | |
|---|--------------|--------------------------|---------------------|------------------|-----------|
| | 12 month ECL | Non credit-impaired loan | Credit-impairedloan | impairment model | Total |
| As of January 1, 2021 | 617,285 | 558,893 | 573,611 | 20,683 | 1,770,472 |
| Increase due to business combination | - | 196 | - | _ | 196 |
| Transfer to 12 month ECL | 115,989 | (67,285) | (48,704) | 1 | - |
| Transfer to noncredit-impaired financial assets | (73,774) | 82,109 | (8,335) | - | _ |
| Transfer to credit-impaired loan | (126,969) | (90,843) | 217,812 | - | - |
| Provisions of allowance of possible loan losses | 22,014 | 271,900 | 214,324 | 17,028 | 525,266 |
| Write-offs | 10 | 22 | (558,867) | _ | (558,835) |
| Collection of loans written off | _ | - | 213,419 | | 213,419 |
| Disposal of NPLs | _ | - | (46,863) | (3,582) | (50,445) |
| Changes in exchange rate, etc. | 35,758 | (14,254) | (7,175) | _ | 14,329 |
| As of December 31, 2021 | 590,313 | 740,738 | 549,222 | 34,129 | 1,914,402 |

16-4 Changes in the carrying amounts of allowance for possible loan losses for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<2022>

| | | Lifetim | eECL | O114 | |
|---|--------------|-------------------------|---------------------|----------------------------|-------------|
| Classification | 12month ECL | Noncredit-impaired loan | Credit-impairedloan | Credit impairment model | Total |
| As of January 1, 2022 | 296,168,022 | 40,138,496 | 1,172,207 | 1,369,499 | 338,848,224 |
| Transfer to 12 month ECL | 6,518,117 | (6,506,098) | (12,019) | _ | - |
| Transfer to noncredit-impaired financial assets | (13,909,307) | 13,927,004 | (17,697) | - | _ |
| Transfer to credit-impaired loan | (784,939) | (505,848) | 1,290,787 | - | - |
| Write-offs | (177) | - | (690,727) | - | (690,904) |
| Net increase and decrease | 29,713,294 | (3,580,542) | (109,409) | (400,523) | 25,622,820 |
| Disposal of NPLs | - | - | (247,587) | (470) | (248,057) |
| Changes in exchange rate, etc. | (15,607) | (1,256) | (2,112) | - | (18,975) |
| As of December 31, 2022 | 317,689,403 | 43,471,756 | 1,383,443 | 968,506 | 363,513,108 |

<2021>

| | | Lifetime ECL | | Out all t | | |
|---|--------------|-------------------------|---------------------|----------------------------|-------------|--|
| Classification | 12month ECL | Noncredit-impaired loan | Credit-impairedloan | Credit impairment model | Total | |
| As of January 1, 2021 | 277,343,228 | 30,153,244 | 1,300,180 | 1,361,444 | 310,158,096 | |
| Increase due to business combination | | 10,000 | 1 | _ | 10,000 | |
| Transfer to 12 month ECL | 4,459,382 | (4,399,754) | (59,628) | - | _ | |
| Transfer to noncredit-impaired financial assets | (18,390,881) | 18,438,038 | (47,157) | - | - | |
| Transfer to credit-impaired loan | (629,299) | (474,032) | 1,103,331 | - | - | |
| Write-offs | - | - | (558,867) | - | (558,867) | |
| Net increase and decrease | 33,407,714 | (3,581,951) | (318,178) | 11,637 | 29,519,222 | |
| Disposal of NPLs | (22,122) | (7,049) | (247,474) | (3,582) | (280,227) | |
| As of December 31, 2021 | 296,168,022 | 40,138,496 | 1,172,207 | 1,369,499 | 338,848,224 | |

16–5 Amortized cost before change and net gain or loss due to change in cash flows of contract of loans, whose allowance for possible loan losses was measured based on the lifetime ECL for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|--------------------------------|--------|--------|
| Amortized cost before change | 81,226 | 83,324 |
| Net gain or loss due to change | (835) | (941) |

16–6 Loans whose contractual cash flows changed for which the measurement of allowance for doubtful accounts changed from the lifetime ECL to 12–month ECL on initial recognition during the reporting period are ₩1,355 million and ₩17,538 million as of December 31, 2022 and 2021, respectively.

16–7 The contractual non-recoverable amount of the loan receivable that has been fully amortized as of the end of the reporting period but is still trying to recover is \$5,260,733 million and \$5,331,950 as of December 31, 2022 and 2021, respectively.

17. DERIVATIVE INSTRUMENTS

17–1 Details of amounts of the unsettled derivative contract and fair value of derivatives held by the Group as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | Notional amounts | Netvaluationgain | Net valuation loss | Assets | Liabilities |
|--------------------|------------------|------------------|--------------------|------------|-------------|
| Currency: | | | | | |
| Forward | 246,586,069 | 5,751,081 | 5,660,985 | 6,455,877 | 5,981,513 |
| Swap | 102,309,784 | 3,239,312 | 3,922,569 | 3,986,397 | 5,070,355 |
| Call option | 664,573 | 3,976 | - | 3,741 | _ |
| Putoption | 635,883 | - | 1,377 | - | 3,267 |
| Future | 1,680,861 | 166 | 3,228 | 166 | 3,228 |
| Subtotal | 351,877,170 | 8,994,535 | 9,588,159 | 10,446,181 | 11,058,363 |
| Interest: | | | | | |
| Forward | 11,243,004 | 388,432 | 174,843 | 432,121 | 209,713 |
| Swap | 262,615,673 | 1,477,168 | 2,024,792 | 1,234,089 | 1,883,597 |
| Call option | 66,150 | 1,579 | - | - | _ |
| Putoption | 765,000 | _ | 4,195 | - | 9,458 |
| Future | 3,607,527 | 5,114 | 304 | 5,421 | 298 |
| Subtotal | 278,297,354 | 1,872,293 | 2,204,134 | 1,671,631 | 2,103,066 |
| Stock: | | | | | |
| Forward | 524 | 171 | - | 286 | _ |
| Swap | 3,356,095 | 22,430 | 229,843 | 18,433 | 370,774 |
| Call option | 2,001,713 | 20,562 | 37,691 | 89,430 | - |
| Put option | 5,226,479 | 66,478 | 50,429 | - | 230,395 |
| Future | 1,014,092 | 11,540 | 7,772 | 11,540 | 7,772 |
| Subtotal | 11,598,903 | 121,181 | 325,735 | 119,689 | 608,941 |
| Credit: | | | | | |
| Swap(CDS) | 17,456,755 | 146,384 | 105,582 | 195,321 | 76,248 |
| Total revenue swap | 5,625,477 | 37,741 | 93,481 | 40,416 | 94,536 |
| Subtotal | 23,082,232 | 184,125 | 199,063 | 235,737 | 170,784 |
| Others: | | | | | |

| Classification | Notional amounts | Net valuation gain | Net valuation loss | Assets | Liabilities |
|--|------------------|--------------------|--------------------|------------|-------------|
| Creditriskvaluation adjustment | - | - | 5,729 | (17,758) | _ |
| Profit or loss on the trade date (unamortized) | _ | I | - | 20,242 | 35,200 |
| Other forwards | 3,020,489 | 108,965 | 90,791 | 107,845 | 90,729 |
| Otherswaps | 10,208,325 | 40,995 | 182,512 | 49,659 | 180,993 |
| Subtotal | 13,228,814 | 149,960 | 279,032 | 159,988 | 306,922 |
| Total | 678,084,473 | 11,322,094 | 12,596,123 | 12,633,226 | 14,248,076 |

| Classification | Notional amounts | Net valuation gain | Net valuation loss | Assets | Liabilities |
|--|------------------|--------------------|--------------------|-----------|-------------|
| Currency: | | | | | |
| Forward | 207,574,461 | 3,104,657 | 2,372,709 | 2,856,394 | 2,206,665 |
| Swap | 93,499,816 | 2,657,272 | 3,420,437 | 1,461,317 | 1,889,435 |
| Call option | 452,589 | 4,373 | _ | 2,344 | _ |
| Put option | 443,674 | _ | 1,955 | - | 1,565 |
| Future | 1,492,911 | 562 | 494 | 562 | 494 |
| Subtotal | 303,463,451 | 5,766,864 | 5,795,595 | 4,320,617 | 4,098,159 |
| Interest: | | | | | |
| Forward | 1,467,163 | 36,539 | 28,408 | 49,367 | 40,459 |
| Swap | 175,714,299 | 472,784 | 732,906 | 486,615 | 559,343 |
| Call option | 251,966 | 4,688 | 821 | 53,273 | - |
| Put option | 905,000 | - | 299 | - | 13,354 |
| Future | 4,280,415 | 3,639 | 1,037 | 3,639 | 1,038 |
| Subtotal | 182,618,843 | 517,650 | 763,471 | 592,894 | 614,194 |
| Stock: | | | | | |
| Forward | 654 | - | 34 | 184 | _ |
| Swap | 3,447,020 | 44,166 | 141,219 | 100,130 | 750,813 |
| Call option | 2,103,991 | 33,871 | 24,515 | 59,350 | _ |
| Put option | 4,447,453 | 35,702 | 16,982 | - | 147,837 |
| Future | 611,158 | 2,666 | 2,849 | 2,666 | 2,849 |
| Subtotal | 10,610,276 | 116,405 | 185,599 | 162,330 | 901,499 |
| Credit: | | | | | |
| Swap(CDS) | 13,626,442 | 26,002 | 46,684 | 99,821 | 125,059 |
| Total revenue swap | 151,447 | 908 | 544 | 5,975 | 1,438 |
| Subtotal | 13,777,889 | 26,910 | 47,228 | 105,796 | 126,497 |
| Others: | | | | | |
| Creditriskvaluation adjustment | - | 2,159 | _ | (12,029) | _ |
| Profit or loss on the trade date (unamortized) | _ | _ | _ | 19,150 | 33,430 |
| Other forwards | 1,550,831 | 30,684 | 28,177 | 30,684 | 28,177 |

| Classification | Notional amounts | Net valuation gain | Net valuation loss Assets Liabilit | | Liabilities |
|--------------------|------------------|--------------------|------------------------------------|-----------|-------------|
| Otherswaps | 7,635,278 | 29,353 | 22,086 | 40,705 | 57,766 |
| Other call options | 1,357,349 | 28,822 | 29,704 | 28,828 | _ |
| Other put options | - | _ | _ | 1 | 29,712 |
| Subtotal | 10,543,458 | 91,018 | 79,967 | 107,338 | 149,085 |
| Total | 521,013,917 | 6,518,847 | 6,871,860 | 5,288,975 | 5,889,434 |

17–2 Unsettled derivative contracts held for hedging purpose as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | Notional amounts | Net valuation gain | Net valuation loss | Assets | Liabilities |
|-----------------------------|------------------|--------------------|--------------------|--------|-------------|
| Fairvalue hedge | | | | | |
| Currency forward | 47,860 | 292 | 1,900 | 193 | 1,900 |
| Currency swap | 1,150,977 | _ | 129,660 | 8,062 | 180,192 |
| Interest swap | 3,497,558 | 30 | 325,172 | _ | 325,952 |
| Subtotal | 4,696,395 | 322 | 456,732 | 8,255 | 508,044 |
| Cash flowhedge | | | | | |
| Currency swap | 825,122 | 12,100 | 24,229 | 20,459 | 27,471 |
| Interest swap | 70,000 | 4,810 | _ | 3,598 | - |
| Bondforwards | 8,779 | - | 620 | - | 620 |
| Subtotal | 903,901 | 16,910 | 24,849 | 24,057 | 28,091 |
| Net investment hedged items | | | | | |
| Currency forwards | 233,345 | - | 10,273 | _ | 10,273 |
| Total | 5,833,641 | 17,232 | 491,854 | 32,312 | 546,408 |

<December 31, 2021>

| Classification | Notional amounts | Net valuation gain | Netvaluation | Assets | Liabilities | |
|------------------|------------------|--------------------|--------------|--------|-------------|--|
| Fairvalue hedge | | | | | | |
| Currency forward | 59,324 | 359 | 4,057 | 359 | 2,834 | |
| Currency swap | 1,138,491 | 3,532 | 67,910 | 19,281 | 61,752 | |
| Interest swap | 2,940,680 | 222 | 99,231 | 49,389 | 49,439 | |
| Subtotal | 4,138,495 | 4,113 | 171,198 | 69,029 | 114,025 | |
| Cash flowhedge | | | | | | |
| Currency swap | 577,341 | 34,077 | 3,242 | 8,359 | 3,242 | |
| Interest swap | 130,000 | 824 | 1,332 | 119 | 1,332 | |
| Subtotal | 707,341 | 34,901 | 4,574 | 8,478 | 4,574 | |
| Total | 4,845,836 | 39,014 | 175,772 | 77,507 | 118,599 | |

For derivative transactions involving both Korean won and foreign currency such as currency forwards, currency futures and currency swap, the fair value of the unsettled amount for such transaction is presented using the proper foreign exchange rate of the contract amount in foreign currency at the reporting date. For a derivative transaction involving only foreign currency, the fair value of the unsettled amount is presented using the proper foreign exchange rate of the foreign currency purchased at the reporting date.

Non-derivative contracts held for hedging purpose as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| | Decembe | er 31, 2022 | December 31, 2021 | | |
|--|-----------|----------------------------|-------------------|----------------------------|--|
| Classification | Bookvalue | Net valuation gain or loss | Bookvalue | Net valuation gain or loss | |
| Fairvalue hedge accounting: | | | | | |
| Debentures in foreign currencies | _ | _ | 237,100 | (19,500) | |
| Net investment in foreign operations hedge accounting: | | | | | |
| Debentures in foreign currencies | 1,131,686 | (24,527) | 779,488 | (56,259) | |
| Borrowings in foreign currencies | 170,314 | 6,559 | _ | _ | |
| Subtotal | 1,302,000 | (17,968) | 779,488 | (56,259) | |
| Total | 1,302,000 | (17,968) | 1,016,588 | (75,759) | |

17–2–1 Details of fair value hedge as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Risk | Hedgeditem Booky | | value I | | ccumulated adjusted fair value hedge | | edfair nedge |
|-----------------------|---|--------|-----------|---------|--------------------------------------|-------|-----------------|
| | | Asset | Liability | Asset | Liability | Asset | Liability |
| Foreign currency risk | Securities measured at FVOCI | 8,671 | _ | (1,224) | 1 | 818 | _ |
| Foreign currency risk | Securities measured at amortized cost | 31,233 | _ | 502 | _ | 805 | _ |
| Interest rate risk | Depository liabilities in Korean won | _ | 187,705 | _ | (62,295) | - | (46,117) |
| Interest rate risk | Depository liabilities inforeign currency | - | 115,865 | | (23,538) | 1 | (24,898) |
| Interest rate risk | Financial debentures in Koreanwon | _ | 93,262 | | (36,738) | | (26,241) |
| Interestraterisk | Financial debentures in foreign currency | _ | 2,773,530 | _ | (204,625) | _ | (228,870) |

| Risk Hedgeditem | Hedgeditem | Bookvalue | | Accumulated adjusted fair value hedge | | Adjusted fair value hedge | |
|---|--|-----------|-----------|---------------------------------------|-----------|------------------------------|-----------|
| | Asset | Liability | Asset | Liability | Asset | Liability | |
| Interest rate and Foreign currency risk | Financial debentures in foreign currency | - | 1,080,816 | | (70,161) | - | (61,499) |
| Tota | Total | | 4,251,178 | (722) | (397,357) | 1,623 | (387,625) |

<December 31, 2021>

| Risk | Hedgeditem | Book | Bookvalue | | Accumulated adjusted fair value hedge | | Adjustedfair value hedge | |
|---|---|--------|-----------|--------|---------------------------------------|--------|-----------------------------|--|
| | | Asset | Liability | Asset | Liability | Asset | Liability | |
| Foreign currency risk | Securities measured at FVOCI | 36,956 | - | 17,694 | _ | 20,674 | _ | |
| Foreign currency risk | Securities measured at amortized cost | 41,949 | _ | 1,530 | _ | 1,894 | _ | |
| Interest rate risk | Depository liabilities in Korean won | | 233,822 | | (16,178) | _ | (12,659) | |
| Interest rate risk | Depository liabilities inforeign currency | I | 131,765 | | 1,360 | - | (3,899) | |
| Interest rate risk | Financial debentures in Korean won | I | 119,503 | | (10,497) | - | (6,345) | |
| Interest rate risk | Financial debentures in foreign currency | | 2,455,251 | | 24,976 | | (76,182) | |
| Interest rate and Foreign currency risk | Financial debentures in foreign currency | - | 1,129,830 | _ | (8,662) | _ | (17,439) | |
| Tot | al | 78,905 | 4,070,171 | 19,224 | (9,001) | 22,568 | (116,524) | |

17–2–2 Details of the fair value hedge target items and the fair value hedge method of the consolidated entity as of the end of the year December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Hedgeditem | Hedging instrument | Gain (loss) onvaluation of hedged item | Gain (loss) on valuation of hedging instrument | Ineffective portion of hedge recognized in profit or loss |
|--|--------------------|--|--|---|
| Securities measured at FVOCI | Currency forwards | 818 | (987) | (169) |
| Securities measured at amortized cost | Currency forwards | 805 | (720) | 85 |
| Depository liabilities in Korean won | Interest swap | 46,117 | (46,117) | _ |
| Depository liabilities in foreign currency | Interest swap | 24,898 | (24,898) | _ |
| Financial debentures in Korean won | Interest swap | 26,241 | (26,241) | _ |
| Financial debentures in foreign currency | Interest swap | 228,870 | (227,915) | 955 |



| Hedgeditem | Hedging instrument | Gain (loss) onvaluation of hedged item | Gain (loss) on valuation of hedging instrument | Ineffective portion of hedge recognized in profit or loss |
|--|--------------------|--|--|---|
| Financial debentures in foreign currency | Currency swap | 61,499 | (129,660) | (19) |
| Total | | 389,248 | (456,538) | 852 |

| Hedgeditem | Hedging instrument | Gain (loss) onvaluation of hedged item | Gain (loss) on valuation of hedging instrument | Ineffective portion of hedge recognized in profit or loss |
|--|--|--|--|---|
| Securities measured at FVOCI | Financial debentures in foreign currency | 19,500 | (19,500) | - |
| Securities measured at FVOCI | Currency forwards | 1,174 | (2,112) | (938) |
| Securities measured at amortized cost | Currency forwards | 1,894 | (1,586) | 308 |
| Depository liabilities in Korean won | Interest swap | 12,659 | (12,659) | - |
| Depository liabilities in foreign currency | Interest swap | 3,899 | (3,899) | - |
| Financial debentures in Korean won | Interest swap | 6,345 | (6,345) | - |
| Financial debentures in foreign currency | Interest swap | 76,182 | (76,328) | (146) |
| Financial debentures in foreign currency | Currency swap | 17,439 | (64,377) | (11) |
| To | otal | 139,092 | (186,806) | (787) |

17–2–3 Details of items subject to cash flow hedge as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Risk | Hedgeditem | Bookvalue | | Accumulated cash flow hedge adjustments | | Cash flowhedging effect | |
|---|---|-----------|-----------|---|-----------|-------------------------|-----------|
| | | Asset | Liability | Asset | Liability | Asset | Liability |
| Interest rate risk | Variable interest rate debentures denominated in Koreanwon | - | 69,944 | - | 3,963 | | 4,700 |
| Interest rate and foreign exchange risk | Variable interest rate debentures denominated in foreign currency | - | 601,067 | 16,244 | 20,429 | 6,426 | - |
| Foreignexchangerisk | Fixed interest rate debentures denominated in foreign currency | - | 222,866 | 7,170 | - | 5,802 | - |

| Risk | Hedgeditem | Bookvalue | | Accumulated cash flow hedge adjustments | | Cash flowhedging effect | |
|--------------------|------------------------------------|-----------|-----------|---|-----------|-------------------------|-----------|
| | | Asset | Liability | Asset | Liability | Asset | Liability |
| Interest rate risk | Expected bond purchase transaction | _ | 620 | | 620 | | 620 |
| Total | | _ | 894,497 | 23,414 | 25,012 | 12,228 | 5,320 |

<December 31, 2021>

| Risk | Hedgeditem | Bookvalue | | Accumulated cash flow hedge adjustments | | Cash flowhedging effect | |
|-------------------------|---|-----------|-----------|---|-----------|-------------------------|-----------|
| | | Asset | Liability | Asset | Liability | Asset | Liability |
| Interest rate risk | Variable interest rate debentures denominated in Koreanwon | 1 | 129,946 | _ | 559 | 526 | - |
| l toreian exchange risk | Variable interest rate debentures denominated in foreign currency | - | 355,382 | 8,487 | - | I | 33,874 |
| Foreign exchange risk | Fixed interest rate debentures denominated in foreign currency | _ | 221,322 | _ | 750 | 3,242 | _ |
| To | Total | | 706,650 | 8,487 | 1,309 | 3,768 | 33,874 |

17–2–4 Cash flow hedged items and gain or loss on valuation of items subject to cash flow hedge for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Hedgeditem | Hedginginstrument | Gain (loss) on valuation of hedgeditem | Gain (loss) on valuation of hedging instrument (*) | Ineffective portion of hedge recognized in profit or loss |
|---|-------------------|--|--|---|
| Variable interest rate debentures denominated in Koreanwon | Interest swap | (4,700) | 4,810 | 110 |
| Variable interest rate debentures denominated in foreign currency | Currency swap | 6,426 | (6,327) | 99 |
| Fixed interest rate debentures denominated in foreign currency | Currency swap | 5,802 | (5,802) | _ |
| Expectedbond purchase transaction | Bondforwards | (620) | 617 | (2) |
| Total | | 6,908 | (6,702) | 207 |

(*) Gain (loss) on valuation of hedging instrument effective for hedging are included in OCI.

| Hedgeditem | Hedginginstrument | Gain (loss) on valuation of hedged item | Gain (loss) on valuation of hedging instrument (*) | Ineffective portion of hedge recognized in profit or loss |
|--|-------------------|---|--|---|
| Variable interest rate debentures denominated in Koreanwon, borrowings | Interest swap | 526 | (508) | 18 |
| Interest rate and foreign exchangerisk | Currency swap | (33,874) | 34,077 | 203 |
| Currency risk | Currency swap | 3,242 | (3,242) | _ |
| Total | | (30,106) | 30,327 | 221 |

^(*) Gain (loss) on valuation of hedging instrument effective for hedging are included in OCI.

17-2-5 Net investment hedged items and gain or loss on valuation of items subject to net investment hedge for the years ended December 31, 2022 and 2021 are as follows (Korean won in millions):

<December 31, 2022>

| Hedgeditem | Hedginginstrument | Gain (loss) onvaluation of hedged item | Gain (loss) on valuation of hedging instrument | Ineffective portion of hedge recognized in profit or loss |
|---|---|--|--|---|
| Net investment in foreign operation (foreign currency risk) | Debentures denominated inforeign currencies | 24,527 | (24,527) | _ |
| Net investment in foreign operation (exchange differences on translation of foreign operations) | Currency forwards | 10,273 | (10,273) | _ |
| Net investment in foreign operation (exchange differences on translation of foreign operations) | Borrowings denominated inforeign currencies | (6,559) | 6,559 | _ |
| Total | | 28,241 | (28,241) | _ |

<December 31, 2021>

| Hedgeditem | Hedginginstrument | Gain (loss) onvaluation of hedged item | Gain (loss) on valuation of hedging instrument | Ineffective portion of hedge recognized in profit or loss |
|--|---|--|--|---|
| Net investment inforeign operation (foreign currency risk) | Debentures denominated inforeign currencies | 56,259 | (56,259) | - |

17–3 Details of the average hedging ratio of future nominal cash flow as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

(Korean won in millions)

| Classification | 1 year | 2years | 2years | 4years | 5years | After 5 years | Total |
|--|---------|-----------|---------|-----------|---------|---------------|-----------|
| Fairvalue hedge: | | | | | | | |
| Nominal value of hedged items | 536,350 | 1,375,348 | - | 1,435,980 | 760,380 | 582,768 | 4,690,826 |
| Nominal value of hedging instrument | 541,918 | 1,375,348 | _ | 1,435,980 | 760,380 | 582,768 | 4,696,394 |
| Rate of average hedging | 99.14% | 100.36% | - | 99.95% | 102.32% | 100.00% | 100.03% |
| Cash flowhedge: | | | | | | | |
| Nominal value of cash flow hedge | 221,778 | - | 324,482 | 307,641 | _ | 50,000 | 903,901 |
| Nominal value of hedging instrument | 221,778 | - | 324,482 | 307,641 | _ | 50,000 | 903,901 |
| Rate of average hedging | 100.00% | _ | 100.00% | 100.00% | _ | 100.00% | 100.00% |
| Net investment hedges of foreign operations: | | | | | | | |
| Nominal value of hedged items | 511,355 | 576,205 | _ | 224,713 | _ | _ | 1,312,273 |
| Nominal value of hedging instrument | 511,355 | 576,205 | _ | 224,713 | _ | _ | 1,312,273 |
| Rate of average hedging | 99.42% | 100.00% | _ | 100.00% | _ | _ | 99.78% |

<December 31, 2021>

| Classification | 1 year | 2years | 2 years | 4years | 5years | After 5 years | Total |
|--|---------|---------|-----------|--------|-----------|---------------|-----------|
| Fairvalue hedge: | | | | | | | |
| Nominal value of hedged items | 409,380 | 467,116 | 1,304,256 | _ | 1,382,470 | 806,780 | 4,370,002 |
| Nominal value of hedging instrument | 414,974 | 467,116 | 1,304,256 | - | 1,382,470 | 806,780 | 4,375,596 |
| Rate of average hedging | 98.65% | 99.75% | 99.66% | _ | 99.90% | 100.00% | 99.77% |
| Cash flowhedge: | | | | | | | |
| Nominal value of cash flow hedge | 228,188 | 207,463 | - | - | 221,691 | 50,000 | 707,342 |
| Nominal value of hedging instrument | 228,188 | 207,463 | - | _ | 221,691 | 50,000 | 707,342 |
| Rate of average hedging | 100.00% | 100.00% | _ | _ | 100.00% | 100.00% | 100.00% |
| Net investment hedges of foreign operations: | | | | | | | |
| Nominal value of hedged items | _ | - | _ | _ | - | 779,488 | 779,488 |
| Nominal value of hedging instrument | - | - | _ | _ | - | 779,488 | 779,488 |
| Rate of average hedging | _ | _ | _ | _ | _ | 100.00% | 100.00% |



17–4 Hedging relationships affected by Interbank Offered Rate ("IBOR") Reform

17–4–1 The exposure to hedging relationships due to the Group's IBOR Reform as of December 31, 2022 and 2021, is as follows (Korean won in millions):

The USD LIBOR interest rate will be replaced by a Secure Overnight Financing Rate ("SOFR") based on actual transactions. And the KRW Certificate of Deposit ("CD") rate can be replaced by the Risk Free Rate ("RFR") in case of an emergency in the long run. In this hedging relationship, the Group assumed that the spread based on a SOFR would be similar to that included in the interest rate swap used as a hedging instrument and no other changes were assumed.

<December 31, 2022>

(Korean won in millions)

| Interestindex | Currency | Bookvalue of non-derivative financial liabilities (*) | Nominal value of hedging instruments (*) | |
|---------------|----------|---|--|--|
| KRW91CD | KRW | 280,967 | 380,000 | |
| USD1MLIBOR | USD | 221,742 | 221,778 | |
| USD3MLIBOR | USD | 3,257,616 | 3,508,155 | |

(*) It contains the amount prior to the time when the LIBOR was calculated.

<December 31, 2021>

(Korean won in millions)

| Interestindex | Currency | Bookvalue of non-derivative Nominal value of financial liabilities (*) hedging instrument | |
|---------------|----------|---|-----------|
| KRW91 CD | KRW | 433,317 | 460,000 |
| USD1MLIBOR | USD | 355,382 | 355,650 |
| USD3MLIBOR | USD | 3,716,846 | 3,699,172 |

(*) It contains the amount prior to the time when the LIBOR was calculated.

17–4–2 The nominal amount and weighted average maturity of derivatives that will be affected by the IBOR reform for transition to a SOFR basis as of December 31, 2022 and 2021, (Korean won in millions, year):

<December 31, 2022>

(Korean won in millions)

| Interest index | Currency | Nominal value of derivatives | Weightedaverage of remaining life | |
|----------------|----------|------------------------------|-----------------------------------|--|
| KRW91CD | KRW | 380,000 | 16.74 | |
| USD1MLIBOR | USD | 221,778 | 0.25 | |
| USD3MLIBOR | USD | 3,508,155 | 3.48 | |

(*) It contains the amount prior to the time when the LIBOR was calculated.

<December 31, 2021>

(Korean won in millions)

| Interest index | Currency | Nominal value of derivatives | Weightedaverage of remaining life | |
|----------------|----------|------------------------------|-----------------------------------|--|
| KRW91CD | KRW | 460,000 | 14.80 | |
| USD1MLIBOR | USD | 355,650 | 1.07 | |
| USD3MLIBOR | USD | 3,699,172 | 4.03 | |

(*) It contains the amount prior to the time when the LIBOR was calculated.

18. INVESTMENTS IN ASSOCIATES AND JOINT VENTURES

18–1 Details of investments in associates and joint ventures

Details of investments in associates and joint ventures as of December 31, 2022 and 2021 are as follows (Korean won in millions):

| | | | Date of | Ownership(%) | | Bookvalue | |
|---|------------|---------|-------------------------|---------------------|---------------------|---------------------|---------------------|
| Classification | Туре | Country | financial statements | December31, 2022 | December31, 2021 | December31, 2022 | December31, 2021 |
| BankforInvestmentandDevelopment of Vietnam("BIDV") (*1) | Associates | Vietnam | December 31,2022 | 15.0 | 15.0 | 1,641,419 | 1,441,797 |
| BankofJilin(*1) | Associates | China | December 31,2022 | 11.9 | 11.9 | 877,490 | 853,877 |
| HORIZONPRIVATEEQUITYFUND(*4) | Associates | Korea | December 31,2022 | 80.2 | 80.2 | 177,775 | 233,270 |
| BeijingLangaAssetManagementCo., Ltd. | Associates | China | December 31,2022 | 21.9 | 21.9 | 96,647 | 96,672 |
| KEBHana-KVICUnicomFundofFunds (*4) | Associates | Korea | December 31,2022 | 90.9 | 90.9 | 98,244 | 72,528 |
| Toss BankCo., Ltd. (*1) | Associates | Korea | December 31,2022 | 9.3 | 10.0 | 97,371 | 49,125 |
| Hana Digital Transformation Fund(*4) | Associates | Korea | December 31,2022 | 57.9 | 57.9 | 55,939 | 51,169 |

| | | | Date of | Owners | ship(%) | Book | value |
|---|----------------|-----------|-------------------------|---------------------|---------------------|---------------------|---------------------|
| Classification | Type | Country | financial statements | December31, 2022 | December31, 2021 | December31, 2022 | December31, 2021 |
| Hana-CapstoneAlPlatformFund(*4) | Associates | Korea | December 31,2022 | 60.9 | 60.9 | 48,812 | 25,000 |
| Hana UBS Asset Management | Associates | Korea | December 31,2022 | 49.0 | 49.0 | 35,660 | 35,674 |
| KORAMCOTHEONEREIT(*1) | Associates | Korea | December 31,2022 | 9.9 | 19.1 | 27,797 | 36,107 |
| PT. SINARMAS HANAFINANCE(*3) | Joint ventures | Indonesia | December 31,2022 | 85.0 | 85.0 | 24,068 | 22,338 |
| HanaPowerInfra1stPrivateEquityFund(*1) | Associates | Korea | December 31,2022 | 7.0 | 7.0 | 20,110 | 21,204 |
| Hana Innovation Venture Scale-up Fund | Associates | Korea | December 31,2022 | 46.2 | 46.2 | 25,610 | 20,184 |
| KIAMCO Daegu Complex Development Fund(*4) | Associates | Korea | December 31,2022 | 95.0 | 95.0 | 19,091 | 18,971 |
| Curious Solution Financial Stability Private Investment Joint Company | Associates | Korea | December 31,2022 | 20.4 | 32.7 | 9,989 | 15,972 |
| Genesis Environment Energy No. 6Private Equity Fund | Associates | Korea | December 31,2022 | 28.5 | 39.9 | 9,746 | 14,694 |
| Gyeonggi Hana Turnaround Fund No. 2 | Associates | Korea | December 31,2022 | 44.5 | 44.5 | 16,399 | 11,883 |
| Mirae Credit Information Services Corp | Associates | Korea | December 31,2022 | 31.0 | 31.0 | 11,647 | 11,481 |
| YHLeisure Development Co., Ltd.(*1) | Associates | Korea | December 31,2022 | 12.8 | 12.8 | 12,281 | 11,081 |
| NewDeal Extension NewTechnology FundNo. 1(*4) | Associates | Korea | December 31,2022 | 50.0 | 50.0 | 15,269 | 10,806 |
| AllTogether Korea Fund5(*4) | Associates | Korea | December 31,2022 | 100.0 | 100.0 | 10,244 | 10,070 |
| Taurus CloudFund | Associates | Korea | December 31,2022 | 27.1 | 27.1 | 9,417 | 9,391 |
| Civic Center PFV(*1), (*2) | Associates | Korea | June 30, 2022 | 13.7 | 13.7 | 7,800 | 8,441 |
| Genesis Environment Energy No. 3 Private Equity Fund | Associates | Korea | December 31,2022 | 44.8 | 44.8 | 7,567 | 7,651 |
| DreamIsland(*1) | Associates | Korea | December 31,2022 | 10.2 | 10.2 | 4,443 | 6,817 |
| 2018 Hana-Magna Start-upfund | Associates | Korea | December 31,2022 | 21.9 | 21.9 | 6,086 | 6,556 |
| Hana Ever Best Corporation Financial Stability Private Investment Co., Ltd. | Associates | Korea | December 31,2022 | 20.1 | 20.1 | 11,768 | 5,835 |
| FinnqCo., Ltd.(*7) | Joint ventures | Korea | - | - | 51.0 | - | 7,664 |
| Lakebridge The Growth Capital PEF1 | Associates | Korea | December 31,2022 | 23.5 | 23.5 | 5,552 | 5,749 |
| F&UCredit Information(*2) | Associates | Korea | November 30, 2022 | 40.0 | 40.0 | 7,105 | 5,722 |
| GFIESG the 1st Private Equity Fund(*1) | Associates | Korea | December 31,2022 | 0.3 | 15.0 | 200 | 10,191 |
| Korea Credit Bureau(*1) | Associates | Korea | December 31,2022 | 9.0 | 9.0 | 5,625 | 8,997 |
| Templeton Hana Asset Management Co., Ltd. | Associates | Korea | December 31,2022 | 29.8 | 29.8 | 4,177 | 3,828 |
| CMInternational Financing Leases | Associates | China | December 31,2022 | 25.0 | 25.0 | 1,629 | 2,149 |
| Somesevit Co., Ltd.(*1), (*5) | Associates | Korea | December 31,2022 | 1.9 | 1.9 | - | - |

| Classification | | 0 | Date of | Owners | hip(%) | Bookvalue | | |
|--|------------|---------|-------------------------|---------------------|---------------------|----------------------|---------------------|--|
| Classification | Type | Country | financial statements | December31, 2022 | December31, 2021 | December 31, 2022 | December31, 2021 | |
| MIDANCity Development Co., Ltd.(*1), (*5) | Associates | Korea | March31, 2018 | 2.2 | 2.2 | _ | - | |
| Company KStartup Winwinfund | Associates | Korea | December 31, 2022 | 23.8 | 23.8 | 2,356 | 5,215 | |
| BSK-6PatentTechnologyInvestmentAssociation | Associates | Korea | December 31,2022 | 20.0 | 20.0 | 2,748 | 2,559 | |
| Harvest PrivateEquity FundSpecializing in Start-Up and Venture Business I | Associates | Korea | December 31, 2022 | 27.3 | 27.3 | 2,803 | 2,876 | |
| Sinsa Station Complex Development PFVCo., Ltd. (*1) | Associates | Korea | December 31,2022 | 9.0 | 9.0 | 364 | 451 | |
| Cheongna Medipolis PFVCo., Ltd.(*1) | Associates | Korea | December 31,2022 | 12.4 | 12.4 | 1,891 | 2,865 | |
| NPX-Welcome Metaverse Contents fund (*4) | Associates | Korea | December 31,2022 | 50.0 | 50.0 | 1,956 | 2,000 | |
| Shinjin International Corporation (*2) (*5) | Associates | Korea | December 31,2022 | 24.2 | 24.2 | 1 | - | |
| KGfashion(*2) (*5) | Associates | Korea | December 31,2022 | 20.5 | 20.5 | 1 | - | |
| A&DCredit Information Co.,Ltd. (*1) (*2) | Associates | Korea | November 30, 2022 | 13.1 | 13.1 | 2,376 | 2,322 | |
| HyojePFVCO., LTD | Associates | Korea | December 31,2022 | 20.0 | 20.0 | 4,579 | 4,674 | |
| | | | December | | | | | |
| Metheus Private Equity Real Estate Fund 10 | Associates | Korea | 31, 2022 | 23.0 | - | 2,037 | | |
| Hana Capital-Capstone Venture Fund III (*4) | Associates | Korea | December 31, 2022 | 56.8 | 56.8 | 2,445 | 2,483 | |
| Hana-KDBC, Capstone Venture Fund (*4) | Associates | Korea | December 31, 2022 | 50.0 | 50.0 | 3,557 | 3,630 | |
| CLAVIS-MetaFundNo.2 | Associates | Korea | December 31, 2022 | 48.5 | 48.5 | 7,564 | 4,979 | |
| 2019 Capstone Venture Fund | Associates | Korea | December 31, 2022 | 27.8 | 27.8 | 1,904 | 1,923 | |
| Smart Hana-K&Green NewDeal No. 1 Fund | Associates | Korea | December 31,2022 | 48.9 | 48.9 | 10,686 | 4,831 | |
| Hana-Magna Growth Booster Fund (*4) | Associates | Korea | December 31,2022 | 50.0 | 50.0 | 14,373 | 7,505 | |
| Nautic Green Innovation ESG Co-investment No. 1 Private Equity Fund | Associates | Korea | December 31,2022 | 30.1 | ı | 4,922 | - | |
| Meta Liquifying Venture Asset 2nd Private Equity Fund | Associates | Korea | December 31,2022 | 21.4 | - | 2,968 | - | |
| Glenwood Credit Private Equity Fund II | Associates | Korea | December 31,2022 | 22.8 | - | 33,118 | - | |
| Gunsan BIO Energy Co., Ltd.(*1), (*5) | Associates | Korea | December 31,2022 | 18.9 | 18.9 | - | | |
| Synergy-Incus Venture Business Fund No. 1 | Associates | Korea | December 31,2022 | 22.0 | 22.0 | - | _ | |
| GMHBCo., Ltd. (*1) (*2) | Associates | Korea | September 30, 2022 | 19.9 | 19.9 | 33,035 | - | |
| Lotte Ventures Corp | Associates | Korea | December 31,2022 | 20.0 | 20.0 | 6,024 | 5,187 | |
| DAValue-upFundNo.2 | Associates | Korea | December 31,2022 | 33.3 | 33.3 | 223 | 944 | |
| | | | | | | | | |

| | | O-webs | Date of | Owners | ship(%) | Bookvalue | |
|---|------------|---------|-------------------------|---------------------|---------------------|---------------------|---------------------|
| Classification | Type | Country | financial statements | December31, 2022 | December31, 2021 | December31, 2022 | December31, 2021 |
| DangsandongPFVCo., Ltd. (*1) (*2) | Associates | Korea | September 30, 2022 | 5.0 | 5.0 | 250 | 298 |
| DreamIslandLeisure(*1) | Associates | Korea | December 31,2022 | 19.9 | 19.9 | 7,381 | 5,392 |
| EBEST Hitech Fund No. 1 | Associates | Korea | December 31,2022 | 36.6 | 36.6 | 936 | 952 |
| UBI-HBICNewTechnology Investment Partnership II | Associates | Korea | December 31,2022 | 27.0 | 27.0 | 1,804 | 1,821 |
| UNIONProptech FundI | Associates | Korea | December 31,2022 | 22.1 | 22.1 | 2,854 | 2,895 |
| Daegu MBC Development PFVCo. Ltd.(*1) (*2) (*5) | Associates | Korea | November 30, 2022 | 15.1 | 15.1 | ı | 627 |
| Changjo Innovation CO., Ltd. (*1) (*2) (*5) | Associates | Korea | December 31,2022 | 7.3 | 7.3 | 1 | 1 |
| DowonAssetDevelopmentCo., Ltd. (*1) (*2) | Associates | Korea | December 31,2022 | 19.9 | 19.9 | 1 | 1,242 |
| MERITZ-KCLAVIS FundNo. 1 | Associates | Korea | December 31,2022 | 22.1 | 22.1 | 969 | 984 |
| HanaMustSevenSpecialPurposeAcquisitionCompany (*1) (*2) | Associates | Korea | September 30, 2022 | 0.1 | 0.1 | 7 | 7 |
| Hana Financial Sixteenth Special Purpose Acquisition Company (*1) (*2) | Associates | Korea | September 30, 2022 | 0.2 | 0.2 | 18 | 18 |
| DGHNewTechnology Investment Association No. 1 | Associates | Korea | December 31, 2022 | 23.3 | 23.3 | 967 | 985 |
| Hana Bio New Technology Fund No. 2 | Associates | Korea | December 31, 2022 | 30.7 | 30.7 | 965 | 986 |
| Hana Bio New Technology Fund No. 3 | Associates | Korea | December 31, 2022 | 44.1 | 44.1 | 964 | 985 |
| ForestofSuseong(*1)(*2)(*5) | Associates | Korea | December 31, 2022 | 10.0 | 10.0 | - | - |
| BMVentures FundNo. 1 | Associates | Korea | December 31, 2022 | 23.1 | 23.1 | 1,449 | 1,481 |
| MCSoutheast Asia Fund No. 1 | Associates | Korea | December 31,2022 | 24.8 | 24.8 | 886 | 904 |
| Hana Hoechang Private Equity Fund No. 1 (*4) | Associates | China | December 31,2022 | 60.0 | 60.0 | 110 | 114 |
| Hana Financial Nineteenth Special Purpose Acquisition Company (*1) (*2) | Associates | Korea | December 31,2022 | 0.1 | 0.1 | 9 | 9 |
| HanaBio NewTechnology FundNo. 1-1(*4) | Associates | Korea | December 31,2022 | 61.3 | 61.3 | 1,585 | 1,984 |
| HanaSmartLogistics NewTechnology Fund | Associates | Korea | December 31,2022 | 22.8 | 22.8 | 241 | 1,982 |
| Cornerstone Mutual Growth VI Fund | Associates | Korea | December 31,2022 | 25.0 | 25.0 | 971 | 992 |
| People Korea Two (*1) (*2) (*5) | Associates | Korea | September 30, 2022 | 13.0 | 13.0 | - | - |
| Hana Financial Twentieth Special Purpose Acquisition Company (*1) (*2) | Associates | Korea | September 30, 2022 | 0.0 | 2.0 | 2 | 2 |
| C47 Investment-Contents Wavve Original Contents I Startup and Venture Private Equity Fund (*2) | Associates | Korea | November 30, 2022 | 20.5 | 20.5 | 966 | 1,000 |
| ImgokRental HousingCO., Ltd. (*1) (*2) (*5) | Associates | Korea | November 30, 2022 | 19.9 | 19.9 | - | - |
| DaeyoungNetworks Co., Ltd.(*1) (*2) (*5) | Associates | Korea | December 31, 2022 | 19.8 | 19.8 | - | 245 |

| | | | Dateof | Owners | hip(%) | Book | value |
|--|------------|---------|-------------------------|---------------------|---------------------|---------------------|---------------------|
| Classification | Туре | Country | financial statements | December31, 2022 | December31, 2021 | December31, 2022 | December31, 2021 |
| HanaFinacialTwenty-firstSpecialPurposeAcquisition Company (*1) (*2) | Associates | Korea | September 30, 2022 | 0.1 | 0.7 | 18 | 11 |
| S&S-RedwoodIndiaAgri-techFund | Associates | Korea | December 31,2022 | 36.0 | 36.0 | 1,957 | 1,995 |
| KCLAVIS AIMArtificial Intelligence Fund No. 1 | Associates | Korea | December 31, 2022 | 36.9 | 36.9 | 974 | 1,000 |
| K&Secondary No5Fund | Associates | Korea | December 31, 2022 | 22.2 | 22.2 | 977 | 1,000 |
| NPX-Welcome Metaverse Contents fund | Associates | Korea | December 31, 2022 | 42.6 | - | 978 | - |
| HanaFinancialTwenty-secondSpecialPurpose AcquisitionCompany (*1) (*2) | Associates | Korea | September 30, 2022 | 0.2 | - | 18 | - |
| STICHealthcare Private Equity Fund | Associates | Korea | December 31, 2022 | 23.8 | - | 983 | - |
| NH-DeepDiveSmartLogisticsFund | Associates | Korea | December 31, 2022 | 37.6 | - | 1,966 | - |
| Hana X Bio New Technology Fund | Associates | Korea | December 31, 2022 | 27.5 | - | 21,568 | - |
| Octave Tech Investment L25 LLC | Associates | Korea | December 31, 2022 | 23.8 | - | 4,029 | - |
| ST-CENTUMFundNo.2 | Associates | Korea | December 31, 2022 | 27.0 | - | 1,966 | _ |
| The HahmGreen Energy Fund | Associates | Korea | December 31,2022 | 30.2 | 1 | 12,778 | _ |
| EBESTHBICFundNo.83 | Associates | Korea | December 31,2022 | 23.5 | - | 2,797 | _ |
| Infinity ESGPrivate Equity FundNo. 2 | Associates | Korea | December 31,2022 | 31.5 | 1 | 13,221 | _ |
| Choice & Soyeon Construction Co., Ltd. (*2) | Associates | Korea | March23, 2022 | 20.0 | - | 86 | - |
| Daeyoung DLMPFVCo., Ltd | Associates | Korea | December 31,2022 | 20.0 | - | 1,212 | - |
| HanaFinancialTwenty-thirdSpecialPurposeAcquisition Company (*1) (*2) | Associates | Korea | September 30, 2022 | 0.2 | _ | 21 | _ |
| IMMGlobalCircularEconomyLPF(*2) | Associates | Korea | September 30, 2022 | 25.4 | - | 2,803 | - |
| JBEBEST Autonomous The Current Fund No. 3 | Associates | Korea | December 31,2022 | 22.8 | - | 987 | - |
| Hana Financial Twenty-fourth Special Purpose Acquisition Company (*1) (*2) | Associates | Korea | September 30, 2022 | 0.0 | - | 4 | _ |
| Hana Financial Twenty-fifth Special Purpose Acquisition Company (*1) (*2) | Associates | Korea | June 30, 2022 | 0.3 | - | 7 | - |
| KDBC-HarvestFundNo.1 | Associates | Korea | December 31,2022 | 22.1 | - | 25,112 | - |
| Eugene Asia Food Tech Fund-1 | Associates | Korea | December 31,2022 | 25.0 | - | 1,045 | - |
| CheonanJDCPFVCo., Ltd. (*1) | Associates | Korea | December 31,2022 | 19.2 | - | 1,149 | - |
| K&FashionNo.1Fund | Associates | Korea | December 31,2022 | 24.9 | - | 992 | - |
| HMC-Primus Mobility NewTech Fund | Associates | Korea | December 31,2022 | 29.9 | - | 2,008 | _ |
| UNIST-ATP Start-upFundNo. 1 | Associates | Korea | December 31,2022 | 23.8 | - | 985 | - |

| | | | Date of | Owners | ship(%) | Bookvalue | | |
|--|------------|----------|-------------------------|---------------------|---------------------|---------------------|----------------------|--|
| Classification | Type | Country | financial statements | December31, 2022 | December31, 2021 | December31, 2022 | December 31, 2021 | |
| BIDVSecurities Joint StockCompany | Associates | Vietnam | December 31, 2022 | 35.0 | 1 | 106,195 | - | |
| Hana Financial Twenty-sixth Special Purpose Acquisition Company (*1) | Associates | Korea | December 31, 2022 | 1.9 | 1 | 15 | - | |
| Hana Financial Twenty-seventh Special Purpose Acquisition Company (*1) (*2) | Associates | Korea | November 1 ,2022 | 1.6 | 1 | 15 | - | |
| Hanwha-Samsung Healthcare No. 1 Venture Fund | Associates | Korea | December 31, 2022 | 39.2 | 1 | 1,993 | - | |
| MS-KAl Contents Fund 1 | Associates | Korea | December 31,2022 | 27.0 | ı | 1,989 | - | |
| Anda Mobility Infrastructure Fund No. 1 | Associates | Korea | December 31,2022 | 26.3 | 1 | 1,997 | - | |
| ACP Venture BlindAssociation No. 1 | Associates | Korea | December 31,2022 | 22.2 | - | 999 | - | |
| Smilegate Kairos Sub 1 PEF | Associates | Korea | December 31, 2022 | 44.7 | 1 | 1,699 | - | |
| Gongqingcheng Zhongyuan Hana Equity Investment Partner ship (Limited Partnership) | Associates | China | December 31,2022 | 29.2 | 1 | 5,238 | - | |
| PushanHana(Hainan)Technology Co., Ltd | Associates | China | November 30, 2022 | 39.0 | - | 1,533 | - | |
| Shenzhen Hana Future Energy Investment Partnership (Limited Partnership) (*1) | Associates | China | December 31,2022 | 0.0 | - | 2 | - | |
| Hana Qualified Investor Private Real Estate Investment Trust No. 41-2 | Associates | Korea | December 31,2022 | 35.9 | 35.9 | 424 | 1,576 | |
| Hana Alternative Special Investment Private Trust No. 161 | Associates | Korea | December 31,2022 | 24.2 | 24.2 | 1,163 | 1,163 | |
| Hana Alternative Investment Real Estate Private Trust No. 189 | Associates | Korea | December 31,2022 | 26.5 | - | 2,129 | - | |
| Hana Alternative Investment Blind General Private Real Estate Investment Trust No. 172 | Associates | Korea | December 31,2022 | 20.0 | - | 794 | - | |
| HanaVentures No. 1 Investment Fund(*1) | Associates | Korea | December 31,2022 | 9.1 | 9.1 | 348 | 348 | |
| HanaVentures No. 5 Investment Fund | Associates | Korea | December 31,2022 | 33.8 | 33.8 | 1,954 | 1,985 | |
| Digital Innovation Growth Fund | Associates | Korea | December 31,2022 | 23.1 | 23.1 | 2,883 | 2,967 | |
| Hana Untact Digital Innovation Fund(*4) | Associates | Korea | December 31,2022 | 57.4 | 57.4 | 25,698 | 9,134 | |
| HanaK-NewDeal UnicomFund(*4) | Associates | Korea | December 31,2022 | 60.8 | - | 28,118 | - | |
| HSINVESTMENTSEU11L.P.(*2) | Associates | England | September 30, 2022 | 33.6 | 33.6 | 4,916 | 4,819 | |
| Apollon Private Equity Fund | Associates | Korea | December 31,2022 | 29.9 | 29.9 | 4,223 | 1,958 | |
| Heat Private Equity Fund | Associates | Korea | December 31,2022 | 20.5 | 20.5 | 2,550 | 2,552 | |
| NEHK52Ltd.(*4) | Associates | Hongkong | December 31,2022 | 71.6 | _ | 50,656 | - | |
| Axis Bio Fund (*6) | Associates | Korea | December 31,2022 | - | 31.3 | - | 754 | |
| Smart score Co., Ltd. (*6) | Associates | Korea | - | - | 5.7 | - | 5,078 | |
| Genesis Environment Energy No. 1 Private Equity Fund (*6) | Associates | Korea | - | - | 29.7 | - | 4,699 | |
| Hana Financial Seventeen Special Purpose Acquisition Company (*6) | Associates | Korea | - | - | 0.1 | - | 19 | |

| | | Type Country | Date of | Owners | ship(%) | Bookvalue | |
|--|------------|--------------|----------------------|---------------------|---------------------|----------------------|----------------------|
| Classification Type | Type | | financial statements | December31, 2022 | December31, 2021 | December 31, 2022 | December 31, 2021 |
| Hana-History No1 Investment Fund (*6) | Associates | Korea | - | - | 36.5 | - | 5,452 |
| HanaBioNewTechnologyFundNo.1(*6) | Associates | Korea | - | - | 58.0 | - | 971 |
| Odin2LLC(*6) | Associates | Korea | - | - | 26.7 | - | - |
| Inhee(*6) | Associates | Korea | - | - | 21.8 | - | - |
| HanaFinancial Fifteenth Special Purpose Acquisition Company (*6) | Associates | Korea | _ | - | 0.2 | - | 20 |
| Hana Financial Fourteen Special Purpose Acquisition Company (*6) | Associates | Korea | - | - | 0.2 | - | 19 |
| Total | | | | | | 3,917,787 | 3,282,042 |

- (*1) The Group exercises significant influence on the investee's Board of Directors and therefore, is included as part of affiliated companies under the equity method.
- (*2) The financial statements for the current period were not available; therefore, the financial statements from the recent period were used and the effect from all material transactions or events from the current period were evaluated and appropriately reflected.
- (*3) Equity method is applied since the Group cannot individually control the investees, and other shareholders' consent is required to make important decisions for the company.
- (*4) Because the Group cannot exercise control over the company in the decision-making body, it was classified as an investment in the associates.
- (*5) As the balances of investment accounts became below zero, the equity method application is suspended to them.
- (*6) Excluded from investments in associates and joint ventures because the Group disposes all or some of the shares in them or lose significant influence on them.
- (*7) Excluded from investments in associates and joint ventures through the acquisition of the remaining shares 49% for the year December 31, 2022.

Balances of investment accounts became zero so equity method was no longer applied. In this regard, unrecognized amount of changes in equity for the year ended December 31, 2022 and unrecognized accumulated amount of changes in equity as of December 31, 2021 are as follows (Korean won in millions):

| Classification | Ownership (%) | Unrecognized changes in equity for the year December 31, 2022 | Unrecognized accumulated changes in equity as of December 31, 2021 |
|-----------------------------------|------------------|---|--|
| Somesevit Co., Ltd. | 1.9 | (69) | (1,458) |
| Midan City Development Co., Ltd. | 2.2 | - | (523) |
| Gunsan Bio Energy Co., Ltd. | 18.9 | (122) | (3,864) |
| GMHBCo., Ltd. | 19.9 | 22,286 | - |
| Changjo Innovation CO., Ltd. | 7.3 | (2,176) | (970) |
| Forest of Suseong | 10.0 | (540) | (3,718) |
| People Korea Two Co., Ltd. | 13.0 | (3,737) | (2,721) |
| ImgokRental HousingCO., Ltd. | 19.9 | (553) | (514) |
| Daegu MBC Development PFVCo. Ltd. | 15.1 | (10,470) | _ |

| _ | | | |
|----|--------------|------|---------------|
| | / | 4.40 | |
| C2 | \leftarrow | 148 | \rightarrow |
| | | 170 | |

| Classification | Ownership (%) | Unrecognized changes in equity for the year December 31, 2022 | Unrecognized accumulated changes in equity as of December 31, 2021 |
|-----------------------------|------------------|---|--|
| Daeyoung Networks Co., Ltd. | 19.8 | (1,416) | - |

18–2 Condensed financial information of investments in associates and joint ventures

The condensed financial information of investments in associates and joint ventures as of December 31, 2022 and 2021, is as follows (Korean won in millions):

<December 31, 2022>

(Korean won in millions)

| Classification | Assets | Liabilities | Equity | Revenue | Netincome (loss) | Other comprehensive income (loss) | Comprehensive income(loss) |
|---|-------------|-------------|-----------|-----------|---------------------|---|----------------------------|
| BIDV(*1) | 114,300,714 | 108,381,237 | 5,919,477 | 8,100,357 | 1,071,496 | (62,742) | 1,008,754 |
| BankofJilin | 99,356,297 | 92,088,037 | 7,268,260 | 4,248,227 | 409,505 | (47,294) | 362,211 |
| HORIZONPRIVATE EQUITY FUND | 226,400 | 5,453 | 220,947 | 37 | (13,684) | - | (13,684) |
| BeijingLangaAssetManagementCo., Ltd | 481,800 | 34,098 | 447,702 | 47,954 | 23,524 | 427 | 23,951 |
| KEBHana-KVICUnicomFundofFunds | 108,429 | 361 | 108,068 | 1,440 | 1,077 | (465) | 612 |
| Toss BankCo., Ltd. | 23,398,698 | 22,432,155 | 966,543 | 755,905 | (244,515) | (123,920) | (368,435) |
| Hana Digital Transformation Fund | 98,380 | 1,684 | 96,696 | 24,428 | 16,227 | _ | 16,227 |
| Hana-Capstone Al Platform Fund | 80,570 | 420 | 80,150 | 142 | (1,502) | - | (1,502) |
| Hana UBS Asset Management | 127,034 | 54,260 | 72,774 | 28,323 | 7,747 | 24 | 7,771 |
| KORAMCOTHEONEREIT | 519,597 | 312,655 | 206,942 | 27,499 | 9,974 | - | 9,974 |
| PT. SINARMAS HANAFINANCE | 113,883 | 85,812 | 28,071 | 17,664 | 2,496 | - | 2,496 |
| Hana Power Infra 1st Private Equity Fund | 287,905 | 621 | 287,284 | 10,083 | - | - | _ |
| Hana Innovation Venture Scale-up Fund | 55,807 | 320 | 55,487 | 2,101 | (1,244) | - | (1,244) |
| KIAMCO Daegu Complex Development Fund | 20,102 | 7 | 20,095 | 1,039 | 993 | _ | 993 |
| Curious Solution Financial Stability Private Investment Joint Company No. 1 | 49,191 | 347 | 48,844 | 3,668 | 3,697 | - | 3,697 |
| Genesis Environment No. 6Private Equity Fund | 30,515 | 93 | 30,422 | 1 | (542) | - | (542) |
| Gyeonggi Hana Turnaround Fund No. 2 | 37,038 | 141 | 36,897 | 96 | (3,341) | - | (3,341) |
| Mirae Credit Information Services Corp | 57,637 | 20,065 | 37,572 | 76,293 | 2,495 | _ | 2,495 |
| YHLeisure Development Co., Ltd. | 209,329 | 113,537 | 95,792 | 23,050 | 9,359 | _ | 9,359 |
| NewDeal Extension NewTechnology FundNo. 1 | 30,539 | - | 30,539 | 39 | (1,073) | _ | (1,073) |
| All Together Korea Fund5 | 10,246 | 1 | 10,245 | 149 | 144 | - | 144 |
| Taurus CloudFund | 34,675 | 3 | 34,672 | - | (171) | - | (171) |
| Civic Center PFV | 49,518 | 6 | 49,512 | - | (1,700) | - | (1,700) |
| Genesis Environment No. 3 Private Equity Fund | 16,915 | 5 | 16,910 | 1,500 | 1,212 | _ | 1,212 |
| DreamIsland | 173,014 | 130,868 | 42,146 | 104,113 | (23,339) | _ | (23,339) |
| 2018 Hana-Magna Startup Fund | 28,449 | 695 | 27,754 | 130 | (2,148) | - | (2,148) |
| Hana Ever Best Corporation Financial Stability Private Investment Co., Ltd. | 59,104 | 490 | 58,614 | 1,205 | (498) | (56) | (554) |
| Lakebridge The Growth Capital PEF1 | 23,544 | - | 23,544 | 627 | 251 | - | 251 |
| F&UCredit Information | 28,653 | 10,889 | 17,764 | 65,798 | 2,940 | 520 | 3,460 |

| Classification | Assets | Liabilities | Equity | Revenue | Netincome (loss) | Other comprehensive income (loss) | Comprehensive income(loss) |
|--------------------------------------|---------|-------------|--------|---------|---------------------|-----------------------------------|----------------------------|
| GFI ESG the 1 st Private Equity Fund | 68,188 | 1 | 68,188 | 2,925 | 1,794 | - | 1,794 |
| Korea Credit Bureau | 155,165 | 100,065 | 55,100 | 144,907 | 13,809 | 1 | 13,809 |

(*1) Financial information of BIDV is reflecting the purchase price allocation ("PPA") valuation and generally accepted accounting principle ("GAAP") adjustments.

<December 31, 2021>

(Korean won in millions)

| Classification | Assets | Liabilities | Equity | Revenue | Net income (loss) | Other comprehensive income (loss) | Comprehensive income(loss) |
|---|------------|-------------|-----------|-----------|----------------------|-----------------------------------|----------------------------|
| BankofJilin | 88,184,828 | 81,116,728 | 7,068,100 | 3,702,700 | 371,737 | 54,571 | 426,308 |
| Korea Credit Bureau | 113,859 | 21,284 | 92,575 | 127,751 | 20,486 | - | 20,486 |
| CMInternational Financing Leases | 2,007,878 | 1,951,718 | 56,160 | 73,361 | (56,735) | 4,997 | (51,738) |
| BeijingLangaAssetManagementCo., Ltd. | 474,244 | 26,676 | 447,568 | 28,444 | 32,066 | 300 | 32,366 |
| Company KStartup Winwin Fund | 22,160 | 257 | 21,903 | 747 | 484 | (368) | 116 |
| KEB Hana-KVIC Unicom Fundof Funds | 79,960 | 179 | 79,781 | 59 | (340) | - | (340) |
| BIDV | 92,956,813 | 87,629,602 | 5,327,211 | 6,348,533 | 800,354 | 9,760 | 810,114 |
| PT. SINARMAS Hana Finance | 98,012 | 71,762 | 26,250 | 13,618 | 1,804 | _ | 1,804 |
| Hana UBS Asset Management | 125,496 | 52,693 | 72,803 | 28,873 | 8,618 | (273) | 8,345 |
| HanaPowerInfra1stPrivateEquityFund | 303,524 | 606 | 302,918 | 9,043 | (11,523) | - | (11,523) |
| KORAMCOTHEONEREIT (formerly known as KOCREFREIT 30) | 521,373 | 407,750 | 113,623 | 2,181 | 296 | - | 296 |
| Lotte Ventures Corp. (previously, Lotte Accelerator Corporation) | 19,800 | 717 | 19,083 | 4,192 | 522 | (1,389) | (867) |
| 2018Hana-MagnaStart-upfund | 31,147 | 1,245 | 29,902 | 3,796 | 2,994 | - | 2,994 |
| DreamIsland | 274,059 | 208,573 | 65,486 | _ | (972) | _ | (972) |
| Hana Digital Transformation Fund | 89,365 | 915 | 88,450 | 15,691 | 12,531 | _ | 12,531 |
| Mirae Credit Information Services Corp | 48,985 | 14,948 | 34,037 | 57,391 | 2,355 | - | 2,355 |
| FinnqCo., Ltd. | 23,887 | 8,858 | 15,029 | 5,938 | (12,274) | - | (12,274) |
| LakebridgeTheGrowthCapitalPEF1 | 24,480 | 2 | 24,478 | 570 | 277 | _ | 277 |
| AllTogetherKoreaFund5 | 10,073 | 1 | 10,072 | 53 | 47 | - | 47 |
| HORIZONPRIVATE EQUITY FUND | 292,739 | 2,743 | 289,996 | - | (3,002) | - | (3,002) |
| Toss BankCo., Ltd. | 14,348,062 | 13,906,113 | 441,949 | 37,066 | (81,653) | 3,753 | (77,900) |
| Curious Solution Financial Stability Private Investment Joint Company No. 1 | 49,159 | 344 | 48,815 | 4,392 | 3,697 | - | 3,697 |
| YHLeisure Development Co., Ltd. | 206,221 | 119,788 | 86,433 | 21,022 | 13,111 | - | 13,111 |
| Civic Center PFV | 51,389 | 177 | 51,212 | - | (3,820) | - | (3,820) |
| Hana-History No. 1 Investment Fund | 14,920 | _ | 14,920 | 1 | (130) | - | (130) |
| Templeton Hana Asset Management Co., Ltd. (previously, Darby Hana Infrastructure Fund Management) | 16,414 | 3,569 | 12,845 | 6,954 | 2,164 | - | 2,164 |
| DreamIslandLeisureCo., Ltd. | 27,097 | 2 | 27,095 | - | 485 | - | 485 |
| F&U Credit Information Co., Ltd. | 29,394 | 15,088 | 14,306 | 67,668 | 1,953 | (331) | 1,622 |

(*1) Financial information of BIDV is reflecting the PPA valuation and GAAP adjustments.

18–3 Changes in investments in associates and joint ventures

Details of changes in investments in associates and joint ventures for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<2022>

(Korean won in millions)

| Classification | Owner ship | Initial book | Purchase | Replace ment | Dividend | Book value before | | thod | Disposal | Impairment loss | Book value |
|--|---------------|-----------------|----------|-----------------|----------|-------------------------|----------------|-------------------|----------|--------------------|---------------|
| | (%) | value | | ment | | valuation | Gainor loss | Changes in equity | | IOSS | value |
| BIDV | 15.0 | 1,441,797 | - | - | - | 1,441,797 | 160,724 | 38,898 | - | _ | 1,641,419 |
| BankofJilin | 11.9 | 853,877 | ı | - | _ | 853,877 | 49,900 | (26,287) | ı | _ | 877,490 |
| HORIZONPRIVATE EQUITYFUND | 80.2 | 233,270 | - | - | (28,817) | 204,453 | (11,128) | 11,215 | (26,765) | - | 177,775 |
| BeijingLangaAssetManagement Co., Ltd. | 21.9 | 96,672 | Ī | - | (2,888) | 93,784 | 5,030 | (2,167) | ı | - | 96,647 |
| KEBHana-KVICUnicornFundof Funds | 90.9 | 72,528 | 25,130 | - | - | 97,658 | 1,009 | (423) | - | - | 98,244 |
| Toss BankCo., Ltd. | 9.3 | 49,125 | 79,753 | - | - | 128,878 | (23,982) | (7,525) | - | - | 97,371 |
| Hana Digital Transformation Fund | 57.9 | 51,169 | - | - | - | 51,169 | 9,387 | - | (4,617) | - | 55,939 |
| Hana-Capstone Al Platform Fund | 60.9 | 25,000 | 25,000 | - | - | 50,000 | (915) | - | (273) | - | 48,812 |
| Hana UBS Asset Management | 49.0 | 35,674 | - | - | (3,822) | 31,852 | 3,796 | 12 | - | - | 35,660 |
| KORAMCOTHEONEREIT | 9.9 | 36,107 | - | - | (1,727) | 34,380 | 1,123 | (4) | (7,702) | - | 27,797 |
| PT. SINARMAS HANAFINANCE | 85.0 | 22,338 | - | - | - | 22,338 | 2,380 | (650) | _ | - | 24,068 |
| HanaPowerInfra1stPrivateEquity Fund | 7.0 | 21,204 | - | - | - | 21,204 | (559) | (535) | - | - | 20,110 |
| HanaInnovationVentureScale-up Fund | 46.2 | 20,184 | 6,000 | - | - | 26,184 | (574) | - | - | - | 25,610 |
| KIAMCO Daegu Complex Development Fund | 95.0 | 18,971 | - | - | (825) | 18,146 | 945 | _ | - | _ | 19,091 |
| Curious Solution Financial Stability Private Investment Joint Company No. 1 | 20.4 | 15,972 | - | _ | (1,200) | 14,772 | 1,190 | _ | (5,973) | - | 9,989 |
| Genesis Environment No. 6Private Equity Fund | 28.5 | 14,694 | 5,704 | (6,510) | - | 13,888 | (178) | ı | (3,964) | - | 9,746 |
| Gyeonggi Hana Turnaround Fund No. 2 | 44.5 | 11,883 | 6,000 | - | - | 17,883 | (1,484) | | I | - | 16,399 |
| Mirae Credit Information Services Corp | 31.0 | 11,481 | - | - | (186) | 11,295 | 352 | - | - | - | 11,647 |
| YHLeisure Development Co., Ltd. | 12.8 | 11,081 | - | _ | - | 11,081 | 1,200 | - | - | - | 12,281 |
| NewDeal Extension New Technology FundNo. 1 | 50.0 | 10,806 | 5,000 | - | - | 15,806 | (537) | - | _ | - | 15,269 |
| All Together Korea Fund5 | 100.0 | 10,070 | 62 | - | (62) | 10,070 | 174 | _ | _ | _ | 10,244 |
| Taurus Cloud Fund | 27.1 | 9,391 | 77 | - | - | 9,468 | (51) | _ | - | _ | 9,417 |
| Civic Center PFV | 13.7 | 8,441 | - | - | - | 8,441 | (641) | _ | _ | _ | 7,800 |
| Genesis Environment No. 3Private Equity Fund | 44.8 | 7,651 | - | - | (627) | 7,024 | 543 | - | - | - | 7,567 |
| DreamIsland | 10.2 | 6,817 | - | - | - | 6,817 | (2,374) | - | - | _ | 4,443 |
| 2018 Hana-Magna Start-upfund | 21.9 | 6,556 | - | - | - | 6,556 | (470) | _ | - | _ | 6,086 |
| Hana Ever Best Corporation Financial Stability Private I rvestment Co., Ltd. | 20.1 | 5,835 | 6,044 | - | - | 11,879 | (100) | (11) | - | - | 11,768 |
| FinngCo., Ltd. | - | 7,664 | - | (3,332) | - | 4,332 | (4,332) | - | - | _ | - |

| Classification | Owner ship (%) | Initial book value | Purchase | Replace ment | Dividend | Book value before valuation | Valuation me Gainor loss | of equity thod Changes in equity | Disposal | Impairment loss | Book value |
|------------------------------------|----------------------|--------------------------|----------|-----------------|----------|--------------------------------------|-----------------------------------|---|-----------|--------------------|---------------|
| LakebridgeTheGrowthCapital PEF1 | 23.5 | 5,749 | - | - | (46) | 5,703 | 59 | 1 | (210) | - | 5,552 |
| F&UCredit Information | 40.0 | 5,722 | - | _ | _ | 5,722 | 1,175 | 208 | - | - | 7,105 |
| GFIESG the 1st Private Equity Fund | 0.3 | 10,191 | 200 | - | (5) | 10,386 | 5 | - | (10,191) | - | 200 |
| Korea Credit Bureau | 9.0 | 8,997 | - | - | _ | 8,997 | (3,372) | - | - | - | 5,625 |
| Others | - | 135,125 | 474,833 | (17,148) | (7,260) | 585,550 | 44,871 | (13,040) | (93,304) | (3,461) | 520,616 |
| Total | | 3,282,042 | 633,803 | (26,990) | (47,465) | 3,841,390 | 233,166 | (309) | (152,999) | (3,461) | 3,917,787 |

<2021>

| Olasaiti aatia | Owner | Initial | Dunahara | Replace | Didded | Book value | Valuation o | of equity thod | Diagram | Impairment | Book |
|---|-------------|---------------|----------|----------|----------|---------------------|-----------------|-------------------|----------|------------|-----------|
| Classification | ship (%) | book value | Purchase | ment | Dividend | before valuation | Gain or loss | Changes in equity | Disposal | loss | value |
| BankofJilin | 11.9 | 758,816 | - | - | - | 758,816 | 4,656 | 94,111 | (3,706) | - | 853,877 |
| Korea Credit Bureau | 9.0 | 7,819 | - | - | (90) | 7,729 | 1,268 | - | - | - | 8,997 |
| CMInternational Financing Leases | 25.0 | 2,777 | - | - | - | 2,777 | - | _ | - | (628) | 2,149 |
| BeijingLangaAssetManagementCo., Ltd. | 21.9 | 82,176 | _ | - | (2,281) | 79,895 | 7,747 | 9,030 | _ | _ | 96,672 |
| Company KStartup Winwin Fund | 23.8 | 5,487 | - | - | - | 5,487 | 116 | (88) | (300) | - | 5,215 |
| KEB Hana-KVIC Unicorn Fund of Funds | 90.9 | 55,812 | 18,000 | - | _ | 73,812 | (1,284) | 1 | - | _ | 72,528 |
| OurCrowdInternational Invest | - | 13,970 | - | - | - | 13,970 | - | _ | (13,970) | - | - |
| BankforInvestment and Development of Vietnam | 15.0 | 1,194,183 | _ | - | (6,262) | 1,187,921 | 120,053 | 133,823 | - | - | 1,441,797 |
| PT. SINARMAS Hana Finance | 85.0 | 20,213 | - | - | _ | 20,213 | 1,062 | 1,063 | - | - | 22,338 |
| Hana UBS Asset Management | 49.0 | 35,107 | - | - | (3,523) | 31,584 | 4,224 | (134) | - | - | 35,674 |
| Hana Power Infra 1st Private Equity Fund | 7.0 | 22,469 | - | (458) | - | 22,011 | (807) | - | - | - | 21,204 |
| KOCREFREIT30 | 19.1 | 36,609 | - | - | (1,036) | 35,573 | 262 | 272 | - | - | 36,107 |
| Lotte Ventures Corp. (previously, Lotte Accelerator Corporation) | 20.0 | 5,229 | - | _ | - | 5,229 | 236 | (278) | - | - | 5,187 |
| Petra6thAlpaPrivateEquityFund | - | 14,503 | - | - | - | 14,503 | - | 1 | (14,503) | - | - |
| MyoungshinCo., Ltd. | - | 22,059 | - | (17,141) | - | 4,918 | - | (4,918) | _ | - | - |
| 2018 Hana-Magna Start-upfund | 21.9 | 6,616 | - | - | - | 6,616 | 625 | - | (685) | - | 6,556 |
| DreamIsland | 10.2 | 6,910 | - | - | _ | 6,910 | (93) | - | - | - | 6,817 |
| Fresheasy Co., Ltd. | - | 20,811 | - | - | _ | 20,811 | (9,612) | (1,956) | (9,243) | - | - |
| Hana Digital Transformation Fund | 57.9 | 52,880 | - | - | - | 52,880 | 7,250 | _ | (8,961) | - | 51,169 |
| Mirae Credit Information Services Corp | 31.0 | 10,072 | - | - | (186) | 9,886 | 1,595 | _ | - | - | 11,481 |
| FinnqCo., Ltd. | 51.0 | 13,716 | - | - | - | 13,716 | (6,263) | 211 | - | - | 7,664 |
| Lakebridge The Growth Capital PEF1 | 23.5 | 5,949 | - | - | (33) | 5,916 | 43 | - | (210) | - | 5,749 |
| All Together Korea Fund5 | 100.0 | 10,023 | _ | _ | _ | 10,023 | 47 | - | | | 10,070 |
| HORIZONPRIVATE EQUITY FUND | 71.0 | 215,652 | 25,655 | - | - | 241,307 | (1,876) | 19,427 | (25,588) | - | 233,270 |
| TossBankCorp. (previously, TOSS INNOVATIONCO., LTD.) | 10.0 | 7,500 | 47,500 | _ | - | 55,000 | (6,124) | 249 | - | - | 49,125 |
| Curious Solution Financial Stability Private Investment Joint Company No. 1 | 32.7 | 15,995 | - | - | (1,232) | 14,763 | 1,209 | - | - | - | 15,972 |
| YHLeisure Development Co., Ltd. | 12.8 | 9,956 | _ | | | 9,956 | 1,125 | - | | _ | 11,081 |
| Civic Center PFV | 13.7 | 7,973 | - | - | - | 7,973 | 468 | - | - | _ | 8,441 |



| Classification | Owner ship | Initial book | Purchase | Replace | Dividend | Book value | Valuation of met | hod | Disposal | Impairment | Book |
|--|---------------|-----------------|----------|----------|----------|---------------------|------------------|-------------------|-----------|------------|-----------|
| | (%) | value | | ment | | before valuation | Gainor loss | Changes in equity | | loss | value |
| Hana-History No. 1 Investment Fund | 36.5 | - | 5,500 | _ | - | 5,500 | (48) | - | - | - | 5,452 |
| Templeton Hana Asset Management Co., Ltd. (previously, Darby Hana Infrastructure FundManagement) | 29.8 | 5,937 | - | - | (2,980) | 2,957 | 871 | _ | - | - | 3,828 |
| DreamIslandLeisureCo., Ltd. | 19.9 | 2 | 5,969 | - | - | 5,971 | (489) | (90) | - | - | 5,392 |
| F&UCredit InformationCo., Ltd. | 40.0 | 5,067 | 1 | - | - | 5,067 | 787 | (132) | - | - | 5,722 |
| Others | | 59,090 | 300,043 | 5,899 | (5,578) | 359,454 | 3,932 | 6,148 | (141,196) | 14,170 | 242,508 |
| Total | | 2,731,378 | 402,667 | (11,700) | (23,201) | 3,099,144 | 130,980 | 256,738 | (218,362) | 13,542 | 3,282,042 |

18–4 Details of net assets of related companies as of December 31, 2022 and 2021, are as follows (Korean won in million):

<December 31, 2022>

| Classification | Net assets | Ownership(%) | Interest in net assets | Goodwill and others | Bookvalue |
|---|------------|--------------|------------------------|---------------------|-----------|
| BIDV | 5,919,477 | 15.0 | 887,922 | 753,497 | 1,641,419 |
| BankofJilin | 7,268,259 | 11.9 | 866,377 | 11,113 | 877,490 |
| HORIZONPRIVATE EQUITYFUND | 220,947 | 80.2 | 177,129 | 646 | 177,775 |
| Beijing Langa Asset Management Co., Ltd. | 447,703 | 21.9 | 98,181 | (1,534) | 96,647 |
| KEB Hana-KVIC Unicorn Fund of Funds | 108,068 | 90.9 | 98,244 | - | 98,244 |
| Toss BankCo., Ltd. | 966,543 | 9.3 | 89,792 | 7,579 | 97,371 |
| Hana Digital Transformation Fund | 96,696 | 57.9 | 55,939 | _ | 55,939 |
| Hana-Capstone Al PlatformFund | 80,150 | 60.9 | 48,812 | _ | 48,812 |
| Hana UBS Asset Management | 72,775 | 49.0 | 35,660 | _ | 35,660 |
| KORAMCOTHEONEREIT | 206,942 | 9.9 | 20,489 | 7,308 | 27,797 |
| PT. SINARMAS HANA FINANCE | 28,071 | 85.0 | 23,861 | 207 | 24,068 |
| Hana Power Infra 1st Private Equity Fund | 287,284 | 7.0 | 20,110 | _ | 20,110 |
| Hana Innovation Venture Scale-up Fund | 55,487 | 46.2 | 25,610 | _ | 25,610 |
| KIAMCO Daegu Complex Development Fund | 20,095 | 95.0 | 19,091 | _ | 19,091 |
| Curious Solution Financial Stability Private Investment Joint Company No. 1 | 48,844 | 20.4 | 9,989 | _ | 9,989 |
| Genesis Environment No. 6 Private Equity Fund | 30,422 | 28.5 | 8,667 | 1,079 | 9,746 |
| Gyeonggi Hana Turn around Fund No. 2 | 36,897 | 44.5 | 16,401 | (2) | 16,399 |
| Mirae Credit Information Services Corp | 37,572 | 31.0 | 11,647 | _ | 11,647 |
| YHLeisure Development Co., Ltd. | 95,792 | 12.8 | 12,281 | _ | 12,281 |
| NewDeal Extension NewTechnology Fund No. 1 | 30,539 | 50.0 | 15,269 | - | 15,269 |
| All Together Korea Fund5 | 10,245 | 100.0 | 10,244 | _ | 10,244 |
| Taurus Cloud Fund | 34,672 | 27.1 | 9,382 | 35 | 9,417 |
| Civic Center PFV | 49,511 | 13.7 | 6,775 | 1,025 | 7,800 |
| Genesis Environment No. 3 Private Equity Fund | 16,910 | 44.8 | 7,567 | - | 7,567 |

| Classification | Net assets | Ownership(%) | Interest in net assets | Goodwill and others | Bookvalue |
|---|------------|--------------|------------------------|---------------------|-----------|
| DreamIsland | 42,147 | 10.2 | 4,288 | 155 | 4,443 |
| 2018 Hana-Magna Start-upfund | 27,754 | 21.9 | 6,071 | 15 | 6,086 |
| Hana Ever Best Corporation Financial Stability Private Investment | 58,614 | 20.1 | 11,768 | - | 11,768 |
| Lakebridge The Growth Capital PEF1 | 23,544 | 23.5 | 5,529 | 23 | 5,552 |
| F&UCredit Information | 17,763 | 40.0 | 7,105 | - | 7,105 |
| GFI ESG the 1st Private Equity Fund | 68,188 | 0.3 | 192 | 8 | 200 |
| Korea Credit Bureau | 55,100 | 9.0 | 4,959 | 666 | 5,625 |
| Others | - | - | - | - | 520,616 |
| Total | | | | | 3,917,787 |

<December 31, 2021>

| Classification | Net assets | Ownership(%) | Interest in net assets | Goodwill and others | Bookvalue |
|---|------------|--------------|------------------------|---------------------|-----------|
| BankofJilin | 7,068,100 | 11.9 | 842,518 | 11,359 | 853,877 |
| Korea Credit Bureau | 92,575 | 9.0 | 8,332 | 665 | 8,997 |
| CM International Financing Leases | 56,160 | 25.0 | 14,040 | (11,891) | 2,149 |
| Beijing Langa Asset Management Co., Ltd. | 447,568 | 21.9 | 98,152 | (1,480) | 96,672 |
| Company KStartup Winwin Fund | 21,903 | 23.8 | 5,215 | - | 5,215 |
| KEB Hana-KVIC Unicorn Fund of Funds | 79,781 | 90.9 | 72,528 | - | 72,528 |
| BIDV | 5,327,211 | 15.0 | 799,082 | 642,715 | 1,441,797 |
| PT. SINARMAS Hana Finance | 26,250 | 85.0 | 22,313 | 25 | 22,338 |
| Hana UBS Asset Management | 72,803 | 49.0 | 35,674 | - | 35,674 |
| Hana Power Infra 1st Private Equity Fund | 302,918 | 7.0 | 21,204 | - | 21,204 |
| Previously, KOCREFREIT 30 | 113,623 | 19.1 | 21,746 | 14,361 | 36,107 |
| Lotte Ventures Corp. (previously, Lotte Accelerator Corporation) | 19,083 | 20.0 | 3,813 | 1,374 | 5,187 |
| 2018 Hana-Magna Start-upfund | 29,902 | 21.9 | 6,541 | 15 | 6,556 |
| DreamIsland | 65,486 | 10.2 | 6,662 | 155 | 6,817 |
| Hana Digital Transformation Fund | 88,450 | 57.9 | 51,169 | - | 51,169 |
| Mirae Credit Information Services Corp | 34,037 | 31.0 | 10,551 | 930 | 11,481 |
| FinnqCo., Ltd. | 15,027 | 51.0 | 7,664 | - | 7,664 |
| Lakebridge The Growth Capital PEF1 | 24,478 | 23.5 | 5,749 | - | 5,749 |
| All Together Korea Fund5 | 10,070 | 100.0 | 10,070 | - | 10,070 |
| HORIZONPRIVATE EQUITYFUND | 289,996 | 71.0 | 205,804 | 27,466 | 233,270 |
| Toss Bank Corp. (previously, TOSS INNOVATIONCO., LTD.) | 441,949 | 10.0 | 44,195 | 4,930 | 49,125 |
| Curious Solution Financial Stability Private Investment Joint Company No. 1 | 48,815 | 32.7 | 15,972 | _ | 15,972 |
| YH Leisure Development Co., Ltd. | 86,433 | 12.8 | 11,081 | - | 11,081 |
| Civic Center PFV | 51,211 | 13.7 | 7,008 | 1,433 | 8,441 |
| Hana-History No1 Investment Fund | 14,920 | 36.5 | 5,452 | _ | 5,452 |



| Classification | Net assets | Ownership(%) | Interest in net assets | Goodwill and others | Bookvalue |
|---|------------|--------------|------------------------|---------------------|-----------|
| Templeton Hana Asset Management Co., Ltd. (previously, Darby Hana Infrastructure Fund Management) | 12,845 | 29.8 | 3,828 | - | 3,828 |
| DreamIsland Leisure Co., Ltd. | 27,095 | 19.9 | 5,392 | - | 5,392 |
| F&U Credit Information Co., Ltd. | 14,306 | 40.0 | 5,722 | - | 5,722 |
| Others | _ | - | _ | | 242,508 |
| Total | | | | | 3,282,042 |

18–5 Details of marketable investment shares in related companies as of December 31, 2022 and 2021, are as follows (Korean won in million, price per share in won):

<December 31, 2022>

| Classification | Market price | Price per share |
|--|--------------|-----------------|
| Bank for Investment and Development of Vietnam | 1,572,811 | 2,073 |
| KORAMCO THE ONE REIT | 17,080 | 4,270 |
| Hana Must Seven Special Purpose Acquisition Company | 8 | 2,035 |
| Hana Financial Sixteenth Special Purpose Acquisition Company | 21 | 2,060 |
| Hana Financial Nineteen Special Purpose Acquisition Company | 11 | 2,210 |
| Hana Financial Twentieth Special Purpose Acquisition Company | 2 | 2,150 |
| Hana Financial Twenty-first Special Purpose Acquisition Company | 20 | 2,020 |
| Hana Financial Twenty-second Special Purpose Acquisition Company | 20 | 2,015 |
| Hana Financial Twenty-third Special Purpose Acquisition Company | 20 | 2,010 |
| Hana Financial Twenty-fourth Special Purpose Acquisition Company | 4 | 1,995 |
| Hana Financial Twenty-fifth Special Purpose Acquisition Company | 9 | 9,480 |
| BIDVSecurities Joint Stock Company | 61,417 | 934 |

<December 31, 2021>

| Classification | Market price | Pricepershare |
|--|--------------|---------------|
| BankforInvestment and Development of Vietnam(*) | 1,466,651 | 1,933 |
| Hana Must Seven Special Purpose Acquisition Company | 9 | 2,160 |
| Hana Financial Fourteen Special Purpose Acquisition Company | 21 | 2,115 |
| Hana Financial Fifteenth Special Purpose Acquisition Company | 21 | 2,130 |
| Hana Financial Sixteenth Special Purpose Acquisition Company | 22 | 2,160 |
| Hana Financial Seventeen Special Purpose Acquisition Company | 28 | 2,810 |
| Hana Financial Nineteen Special Purpose Acquisition Company | 11 | 2,240 |
| Hana Financial Twentieth Special Purpose Acquisition Company | 3 | 2,885 |

(*) BIDV has decided to distribute stock dividends in December 2021. As a result, the number of shares held by the Group increased from 603 million to 759 million.

18-6 There's no company excluded from investments in associates and joint ventures despite holding more than 20% of shares as of December 31, 2022.

Investment in trusts that have limited significant influence on related activities under trust contracts even if the Group holds it more than 20% of shares are excluded from investments in associates and joint ventures.

19. PROPERTY AND EQUIPMENT

19–1 Details of property and equipment as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | Acquisition cost | Accumulated depreciation | Accumulated impairment loss | Bookvalue |
|----------------------------------|------------------|--------------------------|-----------------------------|-----------|
| Property and equipment | | | | |
| Land | 1,063,133 | - | (3,786) | 1,059,347 |
| Buildings | 1,188,762 | (285,567) | (8,510) | 894,685 |
| Leaseholdimprovements | 392,128 | (317,911) | _ | 74,217 |
| Vehicles, furniture and fixtures | 1,191,317 | (954,330) | - | 236,987 |
| Construction in progress | 54,629 | - | - | 54,629 |
| Operating lease assets | 2,871,705 | (495,787) | _ | 2,375,918 |
| Subtotal | 6,761,674 | (2,053,595) | (12,296) | 4,695,783 |
| Right-of-use assets | | | | |
| Real estate for business | 1,180,023 | (652,420) | _ | 527,603 |
| Vehicles | 32,935 | (15,219) | - | 17,716 |
| Others | 2,881 | (944) | _ | 1,937 |
| Subtotal | 1,215,839 | (668,583) | - | 547,256 |
| Total | 7,977,513 | (2,722,178) | (12,296) | 5,243,039 |

<December 31, 2021>

| Classification | Acquisition cost | Accumulated depreciation | Accumulated impairment loss | Bookvalue |
|----------------------------------|------------------|--------------------------|-----------------------------|-----------|
| Property and equipment | | | | |
| Land | 985,424 | - | (3,831) | 981,593 |
| Buildings | 996,078 | (240,761) | (8,660) | 746,657 |
| Leaseholdimprovements | 374,240 | (298,322) | _ | 75,918 |
| Vehicles, furniture and fixtures | 1,127,887 | (897,495) | - | 230,392 |
| Construction in progress | 34,825 | _ | - | 34,825 |

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|---|---|--------------|-----|---------------|
| | \ | , | | |

| Classification | Acquisition cost | Accumulated depreciation | Accumulated impairment loss | Bookvalue |
|--------------------------|------------------|--------------------------|-----------------------------|-----------|
| Operating lease assets | 1,443,369 | (374,641) | _ | 1,068,728 |
| Subtotal | 4,961,823 | (1,811,219) | (12,491) | 3,138,113 |
| Right-of-use assets | | | | |
| Real estate for business | 878,018 | (492,393) | _ | 385,625 |
| Vehicles | 29,310 | (14,202) | - | 15,108 |
| Others | 1,177 | (354) | _ | 823 |
| Subtotal | 908,505 | (506,949) | _ | 401,556 |
| Total | 5,870,328 | (2,318,168) | (12,491) | 3,539,669 |

19–2 Changes in property and equipment for the years ended December 31, 2022 and 2021 are as follows (Korean won in millions):

<2022>

| Classification | January 1 | Increase due to business combination | Acquisition | Disposal | Depreciation | Impairment loss | Transfer in (out) | Others | December31 |
|----------------------------------|-----------|--------------------------------------|-------------|-----------|--------------|--------------------|-------------------|---------|------------|
| Property and equipment | | | | | | | | | |
| Land | 981,593 | - | 249 | (1,377) | - | - | 78,952 | (70) | 1,059,347 |
| Buildings | 746,657 | 1 | 29,405 | 476 | (35,406) | (12) | 153,895 | (330) | 894,685 |
| Leaseholdimprovements | 75,918 | 568 | 28,561 | (1,448) | (31,619) | - | 2,167 | 70 | 74,217 |
| Vehicles, furniture and fixtures | 230,392 | 183 | 110,758 | (16,084) | (99,367) | - | 11,356 | (251) | 236,987 |
| Construction in progress | 34,825 | - | 499,742 | (261) | - | ı | (479,214) | (463) | 54,629 |
| Operatingleaseassets | 1,068,728 | - | 1,790,174 | (163,046) | (319,938) | - | - | _ | 2,375,918 |
| Subtotal | 3,138,113 | 751 | 2,458,889 | (181,740) | (486,330) | (12) | (232,844) | (1,044) | 4,695,783 |
| Right-of-use assets | | | | | | | | | |
| Real estate for business | 385,625 | 638 | 365,365 | (10,851) | (212,763) | - | - | (411) | 527,603 |
| Vehicles | 15,108 | - | 12,481 | (1,475) | (7,959) | ı | ı | (439) | 17,716 |
| Others | 823 | 96 | 937 | (62) | (916) | ı | ı | 1,059 | 1,937 |
| Subtotal | 401,556 | 734 | 378,783 | (12,388) | (221,638) | - | - | 209 | 547,256 |
| Total | 3,539,669 | 1,485 | 2,837,672 | (194,128) | (707,968) | (12) | (232,844) | (835) | 5,243,039 |

<2021>

| Classification | January 1 | Acquisition | Disposal | Depreciation | Impairment loss | Transfer in (out) | Others | December31 |
|----------------------------------|-----------|-------------|-----------|--------------|-----------------|-------------------|----------|------------|
| Property and equipment | | | | | | | | |
| Land | 1,038,749 | 1,515 | (39,031) | - | (1,867) | (12,519) | (5,254) | 981,593 |
| Buildings | 806,057 | 16,392 | (17,491) | (32,276) | (5,170) | (16,012) | (4,843) | 746,657 |
| Leaseholdimprovements | 74,330 | 31,750 | (1,399) | (30,255) | - | 488 | 1,004 | 75,918 |
| Vehicles, furniture and fixtures | 230,227 | 100,656 | (20,826) | (92,860) | - | 14,520 | (1,325) | 230,392 |
| Construction in progress | 25,421 | 228,340 | (1,000) | - | - | (217,911) | (25) | 34,825 |
| Operating lease assets | 707,633 | 789,791 | (246,661) | (182,035) | - | - | - | 1,068,728 |
| Subtotal | 2,882,417 | 1,168,444 | (326,408) | (337,426) | (7,037) | (231,434) | (10,443) | 3,138,113 |

| Classification | January 1 | Acquisition | Disposal | Depreciation | Impairment loss | Transfer in (out) | Others | December31 |
|--------------------------|-----------|-------------|-----------|--------------|--------------------|-------------------|--------|------------|
| Right-of-use assets | | | | | | | | |
| Real estate for business | 406,648 | 228,254 | (53,142) | (207,385) | _ | - | 11,250 | 385,625 |
| Vehicles | 15,254 | 9,638 | (3,108) | (7,761) | - | - | 1,085 | 15,108 |
| Others | 417 | - | (10) | (711) | _ | - | 1,127 | 823 |
| Subtotal | 422,319 | 237,892 | (56,260) | (215,857) | | - | 13,462 | 401,556 |
| Total | 3,304,736 | 1,406,336 | (382,668) | (553,283) | (7,037) | (231,434) | 3,019 | 3,539,669 |

20. INVESTMENT PROPERTIES

20–1 Details of investment properties as of December 31, 2022 and 2021, are summarized as follows (Korean won in millions):

<December 31, 2022>

| Classification | Acquisition cost | Accumulated depreciation | Accumulated impairmentloss | Bookvalue |
|----------------|------------------|--------------------------|----------------------------|-----------|
| Land | 538,282 | _ | (3,568) | 534,714 |
| Buildings | 854,048 | (137,211) | (1,466) | 715,371 |
| Total | 1,392,330 | (137,211) | (5,034) | 1,250,085 |

<December 31, 2021>

| Classification | Acquisition cost | Accumulated depreciation | Accumulated impairment loss | Bookvalue |
|----------------|------------------|--------------------------|-----------------------------|-----------|
| Land | 557,686 | - | (5,912) | 551,774 |
| Buildings | 618,917 | (111,111) | (3,861) | 503,945 |
| Total | 1,176,603 | (111,111) | (9,773) | 1,055,719 |

20–2 Changes in investment properties for the years ended December 31, 2022 and 2021 are as follows (Korean won in millions):

<2022>

| Classification | January 1 | Acquisition | Disposal | Depreciation | Transfer in (out) | Others | December31 |
|----------------|-----------|-------------|----------|--------------|-------------------|--------|------------|
| Land | 551,774 | 55,873 | (6,111) | 1 | (66,822) | 1 | 534,714 |
| Buildings | 503,945 | 393,589 | (6,858) | (28,143) | (147,244) | 82 | 715,371 |
| Total | 1,055,719 | 449,462 | (12,969) | (28,143) | (214,066) | 82 | 1,250,085 |

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<2021>

| Classification | January 1 | Acquisition | Disposal | Depreciation | Impairment loss | Transfer in (out) | Others | December 31 |
|----------------|-----------|-------------|----------|--------------|-----------------|-------------------|--------|----------------|
| Land | 665,657 | 76,604 | (56,194) | - | (2,415) | (131,878) | 1 | 551,774 |
| Buildings | 233,689 | 95,382 | (33,086) | (19,103) | (1,602) | 229,514 | (849) | 503,945 |
| Total | 899,346 | 171,986 | (89,280) | (19,103) | (4,017) | 97,636 | (849) | 1,055,719 |

20–3 Rental income and operating expenses arising from the Group's investment properties for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|--------------------|--------|--------|
| Rental income | 33,402 | 14,675 |
| Operating expenses | 21,284 | 3,339 |

20–4 Details and fair value, valuation method and input variables of investment properties for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | Fairvalue(*) | Valuation method | Inputvariables |
|----------------------|--------------|--|--|
| Landand buildings | 1,783,517 | Officially appraised and price and estimated value by cost method | Officially appraised land price and reprocurement cost |

<December 31, 2021>

| Classification | Fairvalue(*) | Valuationmethod | Inputvariables |
|----------------------|--------------|---|---|
| Landand buildings | 1,097,528 | Officially appraised landprice and estimatedvalue by cost method | Officially appraised landprice and reprocurement cost |

(*) The fair value of the investment property was measured on the basis of market-based value by an independent appraisal agency with professional qualifications. All investment properties are classified as Level 3 in the fair value hierarchy described in Note 5–1.

21. FINANCIAL LEASE AND OPERATING LEASE

21–1 The total amount of investment in leases on financial lease receivables and the net investment in leases and the minimum lease payments to be recovered as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Description | Present value of minimum lease payments | Direct cost | Net investment in lease | Unrealized interest income | Total amount of investment |
|--|---|-------------|-------------------------|----------------------------|----------------------------|
| Within 1 year | 666,133 | 3,341 | 669,474 | 87,554 | 757,028 |
| After 1 year, but no later than 2 years | 553,871 | 12,306 | 566,177 | 56,039 | 622,216 |
| After 2 years, but no later than 3 years | 392,118 | 19,813 | 411,931 | 29,591 | 441,522 |
| After3years, but no later than 5 years | 262,198 | 26,124 | 288,322 | 11,917 | 300,239 |
| After5years | 17 | - | 17 | 1 | 18 |
| Total | 1,874,337 | 61,584 | 1,935,921 | 185,102 | 2,121,023 |

(*) Interest income on finance lease receivables recognized for the year ended December 31, 2022 is \times 109,055 million.

<December 31, 2021>

| Description | Present value of minimum lease payments | Direct cost | Net investment in lease | Unrealized interest income | Total amount of investment |
|--|---|-------------|-------------------------|----------------------------|----------------------------|
| Within 1 year | 733,876 | 2,928 | 736,804 | 104,347 | 841,151 |
| After 1 year, but no later than 2 years | 590,296 | 9,126 | 599,422 | 70,966 | 670,388 |
| After 2 years, but no later than 3 years | 558,362 | 22,336 | 580,698 | 42,906 | 623,604 |
| After 3 years, but no later than 5 years | 491,164 | 64,528 | 555,692 | 25,733 | 581,425 |
| After5years | 91 | 286 | 377 | 8 | 385 |
| Total | 2,373,789 | 99,204 | 2,472,993 | 243,960 | 2,716,953 |

(*) Interest income on finance lease receivables recognized for the year ended December 31, 2021 is ₩105,787 million.

21–2 Details of operating lease assets for each type of underlying asset as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | Real estate for business | Vehicles | Equipment | Otherassets | Total |
|---------------------------|--------------------------|-----------|-----------|-------------|-----------|
| Operating lease assets(*) | _ | 2,871,705 | - | - | 2,871,705 |
| Accumulated depreciation | - | (495,787) | - | - | (495,787) |
| Accumulatedimpairmentloss | - | _ | - | _ | _ |
| Total | _ | 2,375,918 | _ | _ | 2,375,918 |

(*) The operating lease asset includes the direct cost of commencing the lease of \\$\text{\psi}192,653\\$ million.

<December 31, 2021>

| Classification | Real estate for business | Vehicles | Equipment | Otherassets | Total |
|-----------------------------|--------------------------|-----------|-----------|-------------|-----------|
| Operatinglease assets(*) | _ | 1,443,369 | - | _ | 1,443,369 |
| Accumulated depreciation | - | (374,641) | _ | _ | (374,641) |
| Accumulated impairment loss | _ | - | _ | - | _ |
| Total | _ | 1,068,728 | - | _ | 1,068,728 |

^(*) The operating lease asset includes the direct cost of commencing the lease of ₩95,436 million.

21–3 Details of operating lease assets by type of underlying asset classified by industry based on acquisition costs as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | Real estate for business | Vehicles | Equipment | Otherassets | Total |
|-------------------------------|--------------------------|-----------|-----------|-------------|-----------|
| Manufacturing | _ | 1,024,181 | - | _ | 1,024,181 |
| Wholesale and retail, lodging | _ | 945,684 | - | _ | 945,684 |
| Logistics, storage | _ | 10,708 | - | - | 10,708 |
| Private service | - | 47,143 | - | - | 47,143 |
| Others | _ | 843,989 | _ | _ | 843,989 |
| Total | _ | 2,871,705 | - | _ | 2,871,705 |

<December 31, 2021>

| Classification | Real estate for business | Vehicles | Equipment | Otherassets | Total |
|-------------------------------|--------------------------|-----------|-----------|-------------|-----------|
| Manufacturing | _ | 256,783 | - | - | 256,783 |
| Wholesale and retail, lodging | _ | 199,054 | - | - | 199,054 |
| Logistics, storage | - | 1,748 | - | - | 1,748 |
| Private service | _ | 37,159 | - | - | 37,159 |
| Others | - | 948,625 | - | - | 948,625 |
| Total | - | 1,443,369 | - | - | 1,443,369 |

21-4 Details of changes in operating lease assets by type of underlying asset for the year ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<2022>

| Classification | Beginning | Acquisition | Disposal | Depreciation | Impairment | Ending |
|--------------------------|-----------|-------------|-----------|--------------|------------|-----------|
| Real estate for business | - | - | _ | _ | - | _ |
| Vehicles | 1,068,728 | 1,790,174 | (163,046) | (319,938) | - | 2,375,918 |
| Equipment | - | - | _ | - | - | - |
| Otherassets | - | - | - | - | = | - |
| Total | 1,068,728 | 1,790,174 | (163,046) | (319,938) | 1 | 2,375,918 |

<2021>

| Classification | Beginning | Acquisition | Disposal | Depreciation | Impairment | Ending |
|--------------------------|-----------|-------------|-----------|--------------|------------|-----------|
| Real estate for business | - | _ | _ | - | - | _ |
| Vehicles | 707,633 | 789,791 | (246,661) | (182,035) | _ | 1,068,728 |
| Equipment | - | - | - | - | - | - |
| Otherassets | - | - | - | = | - | - |
| Total | 707,633 | 789,791 | (246,661) | (182,035) | _ | 1,068,728 |

21–5 The annual lease collection plan for operating lease contracts executed as of December 31, 2022 and 2021, is as follows (Korean won in millions):

<December 31, 2022>

| | Real estate for | | | | |
|--|-----------------|-----------|-----------|--------------|-----------|
| Description | business | Vehicles | Equipment | Other Assets | Total |
| Within 1 year | _ | 470,419 | ı | - | 470,419 |
| After 1 year, but no later than 2 years | _ | 418,503 | ı | - | 418,503 |
| After 2 years, but no later than 3 years | _ | 355,915 | ı | ı | 355,915 |
| After 3 years, but no later than 5 years | - | 348,598 | - | - | 348,598 |
| After 5 years | 1 | 129 | - | - | 129 |
| Total | _ | 1,593,564 | _ | _ | 1,593,564 |

<December 31, 2022>

| | Real estate for | | | | |
|--|-----------------|----------|-----------|--------------|---------|
| Description | business | Vehicles | Equipment | Other Assets | Total |
| Within 1 year | _ | 228,312 | _ | _ | 228,312 |
| After 1 year, but no later than 2 years | - | 169,404 | _ | _ | 169,404 |
| After 2 years, but no later than 3 years | _ | 125,490 | - | - | 125,490 |
| After 3 years, but no later than 5 years | - | 123,902 | _ | _ | 123,902 |
| After 5 years | - | 168 | - | - | 168 |
| Total | _ | 647,276 | - | _ | 647,276 |



22. INTANGIBLE ASSETS

22–1 Details of intangible assets as of December 31, 2022 and 2021, are summarized as follows (Korean won in millions):

<December 31, 2022>

| Classification | Acquisition cost | Accumulated amortization | Accumulated impairment loss | Bookvalue |
|---------------------------------|---------------------|--------------------------|-----------------------------|-----------|
| Goodwill | 108,097 | _ | (23,890) | 84,207 |
| Industrial property | 59,466 | (58,844) | _ | 622 |
| Core deposits | 992,484 | (987,290) | (3,116) | 2,078 |
| Client relationship | 423,113 | (356,619) | _ | 66,494 |
| Software and system development | 2,114,353 | (1,567,089) | (18) | 547,246 |
| Membership | 53,201 | (135) | (6,479) | 46,587 |
| Others | 332,710 | (209,501) | _ | 123,209 |
| Total | 4,083,424 | (3,179,478) | (33,503) | 870,443 |

<December 31, 2021>

| Classification | Acquisition cost | Accumulated amortization | Accumulated impairment loss | Bookvalue |
|---------------------------------|---------------------|--------------------------|-----------------------------|-----------|
| Goodwill | 102,929 | _ | (18,722) | 84,207 |
| Industrial property | 58,837 | (58,323) | - | 514 |
| Core deposits | 992,144 | (986,713) | (3,116) | 2,315 |
| Client relationship | 423,113 | (339,975) | - | 83,138 |
| Software and system development | 1,860,302 | (1,448,709) | (18) | 411,575 |
| Membership | 46,894 | (214) | (6,270) | 40,410 |
| Others | 303,581 | (177,403) | _ | 126,178 |
| Total | 3,787,800 | (3,011,337) | (28,126) | 748,337 |

22–2 Details of goodwill as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | Acquisition cost | Accumulated impairment loss | Bookvalue |
|------------------------|------------------|-----------------------------|-----------|
| Hana Savings Bank (*1) | 75,229 | (18,722) | 56,507 |
| Hana Asset Trust (*2) | 22,377 | _ | 22,377 |
| Hana Secuties (*3) | 4,431 | _ | 4,431 |
| KEB Hana Bank (*4) | 892 | _ | 892 |
| FinnqCo., Ltd. | 5,168 | (5,168) | _ |
| Total | 108,097 | (23,890) | 84,207 |

- (*1) The goodwill was recognized due to the business combination relating to Jeil II Savings Bank, Ace Savings Bank, KOREA SAVINGS BANK, etc.
- (*2) Includes goodwill relating to Hana Alternative Asset Management Co., Ltd. (*3) Includes goodwill relating to Bareun Food Factory Co., Ltd., a subsidiary of Hana Securities.
- (*4) Includes goodwill relating to PT Bank KEB Hana, a subsidiary of KEB Hana Bank.

<December 31, 2021>

| Classification | Acquisition cost | Accumulated impairment loss | Bookvalue |
|------------------------|------------------|-----------------------------|-----------|
| Hana Savings Bank (*1) | 75,229 | (18,722) | 56,507 |
| Hana Asset Trust (*2) | 22,377 | _ | 22,377 |
| Hana Secuties (*3) | 4,431 | - | 4,431 |
| KEB Hana Bank (*4) | 892 | _ | 892 |
| Total | 102,929 | (18,722) | 84,207 |

- (*1) The goodwill was recognized due to the business combination relating to Jeil II Savings Bank, Ace Savings Bank, KOREA SAVINGS BANK, etc.
- (*2) Includes goodwill relating to Hana Alternative Asset Management Co., Ltd. (*3) Includes goodwill relating to Bareun Food Factory Co., Ltd., a subsidiary of Hana Securities.
- (*4) Includes goodwill relating to PT Bank KEB Hana, a subsidiary of KEB Hana Bank.

22–3 The method of goodwill impairment test

The Group allocated goodwill to CGUs which are composed of operating segments or its sub-segments. Impairment test was performed regularly on an annual basis and at times there is any indication of impairment through comparing the carrying amount of CGUs including goodwill with its recoverable amount.

The recoverable amount of a CGU is estimated to be the higher of the CGU's fair value and its value in use. The fair value is based on the best information available to reflect the amount that the Group could obtain, at the end of the reporting period, from the disposal of the assets or the transfer of the liabilities in formal transaction between participants, after deducting the costs of disposal. However, if the fair value could not be measured with sufficient reliability, it is possible applying the value in use which is present value of future cash flows.

The Group estimates future cash flows based on the financial budget authorized by management. The estimation period cannot exceed five years without reasonable causes.

22-4 Result of goodwill impairment test

The goodwill allocated by CGU for the impairment test as of December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classification | Hana Savings Bank | Hana Securities | Hana Asset Trust | Hana Alternative Asset Management | Finnq Co., Ltd. |
|---|----------------------|-----------------|---------------------|--------------------------------------|-----------------|
| Value in use (recoverable amount) | 420,513 | 33,420 | 503,942 | 165,983 | 50,710 |
| Carrying amount of net assets | 377,747 | 32,664 | 377,266 | 127,052 | 58,249 |
| Value in use that exceeds carrying amount of net assets | 42,766 | 756 | 126,676 | 38,931 | (7,539) |
| Discount rate (%) | 9.45 | 12.49 | 12.06 | 12.06 | 19.06 |
| Permanent growth rate (%) | 0.00 | 0.00 | 0.50 | 0.50 | 0.50 |

The Group estimates future cash flows based on the assumption that cash flows will continue to grow at 0.0%~0.5% over five years referred to a recent macroeconomic indicator provided by EIU (Economist Intelligence Unit). The pre-tax discount rate used for discounting future cash flows is calculated based on the assumption of risk-free interest rate, market risk premium, systematic risk of CGU and other factors.

22–5 Changes in the carrying amount of intangible assets for the years ended December 31, 2022 and 2021, are as follows

<2022>

| Classification | January 1 | Increase due to business combination | Acquisition | Disposal | Amortization | Impairment loss | Reclassification | Others (*) | December 31 |
|---------------------------------|-----------|--|-------------|----------|--------------|--------------------|------------------|------------|-------------|
| Goodwill | 84,207 | 5,167 | - | - | - | (5,167) | - | - | 84,207 |
| Industrial property | 514 | 36 | 411 | _ | (345) | - | - | 6 | 622 |
| Core deposits | 2,315 | _ | _ | - | (383) | _ | - | 146 | 2,078 |
| Client relationship | 83,138 | _ | - | _ | (16,644) | _ | - | _ | 66,494 |
| Software and system development | 411,575 | 2,182 | 234,770 | - | (146,350) | (4,562) | 49,382 | 249 | 547,246 |
| Membership | 40,629 | _ | 5,753 | (167) | (135) | (280) | 649 | 138 | 46,587 |
| Others | 125,959 | _ | 79,312 | (122) | (32,093) | _ | (50,098) | 251 | 123,209 |
| Total | 748,337 | 7,385 | 320,246 | (289) | (195,950) | (10,009) | (67) | 790 | 870,443 |

(*) Includes the effect of exchange rate differences.

<2021>

| Classification | January 1 | Acquisition | Disposal | Amortization | Impairment loss | Reclassification | Others (*) | December 31 |
|---------------------------------|-----------|-------------|----------|--------------|--------------------|------------------|------------|-------------|
| Goodwill | 85,344 | - | _ | ı | - | _ | (1,137) | 84,207 |
| Industrial property | 656 | 214 | (70) | (279) | _ | _ | (7) | 514 |
| Core deposits | 2,474 | _ | _ | (340) | _ | - | 181 | 2,315 |
| Client relationship | 113,593 | _ | _ | (30,455) | _ | _ | _ | 83,138 |
| Software and system development | 366,552 | 162,904 | (8,348) | (135,847) | 1 | 25,418 | 896 | 411,575 |
| Membership | 37,833 | 2,926 | (1,010) | (52) | (73) | 220 | 785 | 40,629 |
| Others | 132,686 | 48,818 | (298) | (29,428) | _ | (23,685) | (2,134) | 125,959 |
| Total | 739,138 | 214,862 | (9,726) | (196,401) | (73) | 1,953 | (1,416) | 748,337 |

(*) Includes the effect of exchange rate differences.

23. NON-CURRENT ASSETS HELD FOR SALE

Details of non-current assets held for sale as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|------------------------|-------------------|-------------------|
| Property and equipment | 72,950 | 292,863 |
| Otherassets | _ | 119,731 |
| Total | 72,950 | 412,594 |

(*) The Group measures a non-current asset classified as held for sale at the lower of its carrying amount and fair value less costs to sell and there are no non-current assets held for sale for which impairment losses have been recognized as of December 31, 2022 and 2021.

As of December 31, 2022, non-current assets held for sale consist of 138 collateral acquired by Hana Bank, etc, a subsidiary of the group, for the purpose of repaying loans. These assets were classified as held for sale in accordance with the management's decision to sell, but were not disposed as of December 31, 2022.



24. OTHER ASSETS

24-1 Other assets as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|--------------------------------------|-------------------|-------------------|
| Guarantee deposits | 715,915 | 766,155 |
| Accounts receivable | 7,520,162 | 9,154,921 |
| Accruedincome | 1,981,189 | 1,148,592 |
| Prepaidexpenses | 352,459 | 252,178 |
| Advance payments | 222,168 | 286,130 |
| Reinsurance assets | 34,605 | 29,001 |
| Unamortizednewcontract | 58,752 | 41,369 |
| Separate account assets | 1,826,235 | 1,647,534 |
| Domestic exchange unsettlement debts | 4,240,611 | 3,784,224 |
| Merchant banking account assets | 4,631,361 | 4,741,939 |
| Others | 640,770 | 459,457 |
| Allowance for possible losses | (42,201) | (28,343) |
| Total | 22,182,026 | 22,283,157 |

24–2 Details of merchant banking account assets as of December 31, 2022 and 2021 are as follows (Korean won in millions):

| | Classification | December 31, 2022 | December 31, 2021 |
|--------------------------|-------------------------------------|-------------------|-------------------|
| On-consolidat accounts: | edstatement of financial position | | |
| Financial asset | s measured at FVTPL-Loans | 198,790 | 758,436 |
| Financial asset | s measured at FVTPL-Debt securities | 3,415,666 | 3,334,493 |
| CMAasset | FVTPL debt instruments | 1,016,905 | 649,010 |
| | Total | 4,631,361 | 4,741,939 |
| Off-consolidat accounts: | redstatement of financial position | | |
| Commitment | | 620,000 | 790,000 |

24–3 Changes in the allowance for possible losses for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|--------------------------------------|---------|---------|
| Beginningbalance | 28,343 | 31,486 |
| Write-offs | (2,390) | (2,525) |
| Debt-for-equity swap/dispose NPLs | (163) | (280) |
| Provision for possible losses | 18,003 | (2,467) |
| Interest income from impaired assets | 3 | 22 |
| Others | (1,595) | 2,107 |
| Endingbalance | 42,201 | 28,343 |

24–4 Changes in reinsurance assets and unamortized new contract fee for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<2022>

| Classification | January 1 | Increase | Decrease | December 31 |
|------------------------------|-----------|----------|----------|-------------|
| Reinsurance assets | 29,001 | 5,717 | (113) | 34,605 |
| Unamortized new contract fee | 41,369 | 41,134 | (23,751) | 58,752 |
| Total | 70,370 | 46,851 | (23,864) | 93,357 |

<2021>

| Classification | January 1 | Increase | Decrease | December 31 |
|------------------------------|-----------|----------|----------|-------------|
| Reinsurance assets | 25,895 | 8,115 | (5,009) | 29,001 |
| Unamortized new contract fee | 32,552 | 25,036 | (16,219) | 41,369 |
| Total | 58,447 | 33,151 | (21,228) | 70,370 |

24–5 Changes in greenhouse gas emissions rights held to obtain short-term profit for the years ended December 31, 2022 and 2021, are as follows (ton(tCO2-eq), Korean won in millions):

<2022>

| Classification | Emissions rights(tCO2-eq) | Bookvalue |
|---------------------|---------------------------|-----------|
| Beginningbalance | 417,865 | 14,667 |
| Purchase (disposal) | 419,368 | 4,926 |
| Valuation | _ | (6,197) |
| Ending balance | 837,233 | 13,396 |

<2021>

| Classification | Emissions rights(tCO2-eq) | Bookvalue |
|---------------------|---------------------------|-----------|
| Beginningbalance | _ | - |
| Purchase (disposal) | 417,865 | 9,722 |
| Valuation | _ | 4,945 |
| Endingbalance | 417,865 | 14,667 |

25. FINANCIAL LIABILITIES MEASURED AT FVTPL

Financial liabilities measured at FVTPL as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|---|-------------------|-------------------|
| Derivative liabilities held for trading (*) | 14,248,076 | 5,889,434 |
| Securities sold | 1,054,974 | 882,866 |
| Total | 15,303,050 | 6,772,300 |

^(*) Refer to Note 17. Derivative instruments

26. FINANCIAL LIABILITIES DESIGNATED AS MEASURED AT FVTPL

26–1 Financial liabilities designated as measured at FVTPL as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|-----------------------------------|-------------------|-------------------|
| Derivative-linked securities sold | 12,041,745 | 8,330,544 |
| Deposits | 162,069 | 195,600 |
| Borrowings | 386,341 | 473,741 |
| Deferred Day 1 profit or loss | 127,353 | 104,738 |
| Total | 12,717,508 | 9,104,623 |

With respect to derivative linked securities and structured deposits, the Group does not separate embedded derivatives from main contracts but designates them as financial liabilities measured at FVTPL.

26–2 The difference between the book value and the maturity repayment amount as of the December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|---------------------------|-------------------|-------------------|
| Bookvalue | 12,717,508 | 9,104,623 |
| Maturity repayment amount | 13,932,734 | 9,444,298 |
| Difference | (1,215,226) | (339,675) |

26–3 Credit risk for the financial liabilities designated as measured at FVTPL as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|---|----------------------|----------------------|
| Financial liabilities designated as measured at FVTPLOCI: | | |
| Changes in fair value price from credit risk fluctuation | (12,024) | (14,284) |
| Changes in fair value price from credit risk fluctuation (accumulated)(*) | (46,782) | (35,001) |

^(*) Includes the amount realized by removal and marked in other comprehensive income

27. DEPOSITS

27–1 Details of deposits as of December 31, 2022 and 2021, are as follows (Korean won in millions): Classification

| Classification | December 31, 2022 | December 31, 2021 |
|--|-------------------|-------------------|
| Demanddeposits: | | |
| Demand deposits in Korean won | 17,265,403 | 19,104,577 |
| Demand deposits in foreign currency | 40,576,241 | 34,959,125 |
| Subtotal | 57,841,644 | 54,063,702 |
| Time and saving deposits: | | |
| Time and saving deposits in Korean won | 267,361,214 | 248,140,611 |
| Time and saving deposits in foreign currency | 24,320,573 | 16,563,802 |
| Subtotal | 291,681,787 | 264,704,413 |
| Certificate of deposits | 13,052,533 | 6,380,980 |
| Total | 362,575,964 | 325,149,095 |

27–2 Allocations of deposits by customer as of December 31, 2022 and 2021, are listed as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|------------------------------|-------------------|-------------------|
| Individuals | 115,689,026 | 106,227,659 |
| Corporations | 127,985,882 | 112,055,878 |
| Other banks | 22,459,518 | 18,707,709 |
| Public institutions | 16,399,356 | 13,265,257 |
| Other financial institutions | 44,901,265 | 48,443,041 |
| Government | 8,205,076 | 5,924,293 |
| Non-profit corporations | 13,812,012 | 12,346,117 |
| Foreign corporations | 3,049,951 | 3,130,833 |
| Others | 10,073,878 | 5,048,308 |
| Total | 362,575,964 | 325,149,095 |

28. BORROWINGS

Borrowings as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Type | Lender | Interest rate (%) | December 31, 2022 | December 31, 2021 |
|--------------------------------|---|----------------------|----------------------|----------------------|
| Borrowings in Korean won: | | | | |
| BOKborrowings | BOK | 0.3-1.8 | 5,085,245 | 4,473,504 |
| Government borrowings | Korea Development Bank, etc | 0.5-5.6 | 2,061,794 | 1,932,544 |
| Otherborrowings | Korean Energy Management Corporation, etc. | 0.0-8.6 | 10,382,367 | 8,865,274 |
| Subtotal | | 17,529,406 | 15,271,322 | |
| Borrowings in foreign currence | ies: | | | |
| Bank overdrafts | Foreign bank, etc. | 0.0-12.5 | 380,662 | 313,417 |
| Otherborrowings | Oversea-Chinese Banking Corporation ("OCBC"), etc | 0.7-12.6 | 10,125,268 | 5,378,973 |
| | Subtotal | | 10,505,930 | 5,692,390 |

| Туре | Interest Lender rate (%) | | December31, 2022 | December 31, 2021 |
|--|---|---------|---------------------|----------------------|
| Call money: | | | | |
| Call money in Korean won | Heungkuk Asset Management | 5.1-5.5 | 100,000 | - |
| Call money in foreign currencies | Shinhan Bank, etc | 0.1-5.6 | 970,661 | 1,091,728 |
| | Subtotal | | 1,070,661 | 1,091,728 |
| Bonds sold under repurchase | e agreements: | | | |
| Bonds sold under repurchase agreements in Korean won | General customers, etc | 0.0-4.3 | 6,217,174 | 5,862,774 |
| Bonds sold under repurchase agreements in foreign currencies | Banco Bilbao Vizcaya Argentaria ("BBVA"), Citi, 3.2-5.6 etc | | 1,743,130 | 2,317,774 |
| Subtotal | | | 7,960,304 | 8,180,548 |
| Other borrowings: | | | | |
| Bills sold | General customers, etc | 0.0-0.0 | 26,063 | 25,610 |
| Deferred borrowing costs | Deferred borrowing costs | | | _ |
| Total | | | 37,087,312 | 30,261,598 |

29. DEBENTURES

Debentures as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Type of debentures | Lender | Interest rate (%) | December31, 2022 | December 31, 2021 |
|--|-----------------------------|-------------------|---------------------|----------------------|
| Koreanwon: | | | | |
| Debentures | Financial institutions, etc | 0.7-8.9 | 44,982,206 | 41,541,547 |
| Subordinated bonds | Financial institutions, etc | 2.1-4.9 | 5,061,139 | 6,265,139 |
| Net gain on fair value hedges (this term) | | | (26,241) | (6,345) |
| Net gain on fair value hedges (before the previous period) | | | (10,497) | (4,152) |
| Present value discount | | | (37,786) | (34,907) |
| Subtotal 49,968,821 47,761,2 | | | | 47,761,282 |
| Foreign currencies: | | | | |

| Type of debentures | Lender | Interest rate (%) | December 31, 2022 | December 31, 2021 |
|--|-----------------------------|-------------------|----------------------|----------------------|
| Debentures | Financial institutions, etc | 0.0~5.6 | 5,946,585 | 5,728,806 |
| Subordinatedbonds | Financial institutions, etc | 4.3~10.0 | 1,042,641 | 977,378 |
| Net gain on fair value hedges (this period) | | | (290,369) | (93,621) |
| Net loss on fair value hedges (before the previous period) | | | 15,583 | 109,935 |
| Present value discount | | | (9,429) | (7,619) |
| S | | 6,705,011 | 6,714,879 | |
| | | 56,673,832 | 54,476,161 | |

30. NET DEFINED BENEFIT LIABILITIES

30–1 Actuarial assumptions as of December 31, 2022 and 2021, are as follows:

| Classification | December 31, 2022 (%) | December 31, 2021 (%) | Notes |
|-------------------------------|--------------------------|--------------------------|--|
| Demographic assumptions: | | | |
| Mortality | 0.0-0.2 | 0.0-0.2 | Table from Korea insurance development institute, etc. |
| Rates of employee turnover | 0.0-90.6 | 0.0-45.2 | Table from Korea insurance development institute, etc. |
| Financial assumptions: | | | |
| Expected salary increase rate | 0.0-8.3 | 0.0-7.0 | The average of the past five years, etc. |
| Discountrate | 4.1-6.1 | 2.3-3.0 | Return oncorporate bondwith the samecredit rating |

30–2 Details of the net defined benefit liabilities as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|---|-------------------|-------------------|
| Present value of defined benefit obligation | 2,249,741 | 2,297,307 |
| Fair value of plan assets (-) | (2,374,096) | (2,099,287) |
| Net defined benefit liabilities | 10,610 | 198,020 |
| Net defined benefit assets | (134,965) | _ |

30–3 Changes in the present value of defined benefit obligation for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|---|-----------|-----------|
| Beginningbalance | 2,297,307 | 2,328,212 |
| Acquired in business combination | 1,337 | - |
| Current service cost | 176,177 | 187,088 |
| Past service cost | 951 | 121 |
| Interest cost on benefit obligation | 55,744 | 43,884 |
| Remeasurements of the net defined benefit liability | (54,909) | (63,647) |
| Benefits paid | (226,808) | (198,085) |
| Others | (58) | (266) |
| Endingbalance | 2,249,741 | 2,297,307 |

30-4 Details of losses incurred from severance and retirement benefit plan for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|---|---------|---------|
| Current service cost | 176,177 | 187,088 |
| Past service cost | 951 | 121 |
| Net interest on the net defined benefit liability | 6,605 | 7,665 |
| Subtotal | 183,733 | 194,874 |
| Benefits paid for the defined contribution plan | 4,661 | 5,391 |
| Long-termemployee payment and others | 1,064 | 256 |
| Total | 189,458 | 200,521 |

30–5 Plan assets for severance benefit as of December 31, 2022 and 2021 consist of the followings (Korean won in millions):

<December 31, 2022>

| Classification | Existence of active market price | Inexistence of active market price | Total |
|--|----------------------------------|------------------------------------|-----------|
| Time deposit | | 789,275 | 789,275 |
| ELB | | 7,660 | 7,660 |
| GIC (Interest rate guarantee insurance contract) | _ | 1,544,584 | 1,544,584 |
| Others | _ | 32,577 | 32,577 |
| Total | _ | 2,374,096 | 2,374,096 |

<December 31, 2021>

| Classification | Existence of active market price | Inexistence of active market price | Total |
|--|----------------------------------|------------------------------------|-----------|
| Time deposit | - | 1,900,282 | 1,900,282 |
| ELB | - | 27,437 | 27,437 |
| GIC (Interest rate guarantee insurance contract) | _ | 6,695 | 6,695 |
| Others | - | 164,873 | 164,873 |
| Total | - | 2,099,287 | 2,099,287 |

30-6 Changes in the fair value of plan assets for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|--------------------------------------|-----------|-----------|
| Beginningbalance | 2,099,287 | 2,003,043 |
| Acquired due to business combination | 1,216 | _ |
| Employer contributions | 387,766 | 195,140 |
| Expected return on plan assets | 49,139 | 36,219 |
| Remeasurements of the plan assets | (12,307) | (9,576) |
| Benefits paid | (149,650) | (125,678) |
| Others | (1,355) | 139 |
| Endingbalance | 2,374,096 | 2,099,287 |

30–7 Details of remeasurement accompanied by the application of actuarial assumptions for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|--|-----------|----------|
| Actual gains (losses): | | |
| Changes in demographic assumptions | 425,266 | (1,768) |
| Changes in financial assumptions | (297,480) | 98,323 |
| Experience adjustments | (72,877) | (32,908) |
| Subtotal | 54,909 | 63,647 |
| Income on planned assets: | | |
| Actual income on planned assets | 36,804 | 26,631 |
| Amounts included in net interest on the net defined benefit liability (assets) | (49,111) | (36,207) |
| Subtotal | (12,307) | (9,576) |
| Total | 42,602 | 54,071 |

30-8 The quantitative sensitivity analysis for significant actuarial assumptions as of December 31, 2022 and 2021, is as follows (Korea won in millions):

30-8-1 Discount rate

<December 31, 2022>

| Classification | December31, | 1%point | 1%point |
|---|-------------|-----------|-----------|
| | 2022 | increase | decrease |
| Present value of defined benefit obligation | 2,249,741 | 2,006,910 | 2,327,093 |

<December 31, 2021>

| Classification | December31, | 1%point | 1%point |
|---|-------------|-----------|-----------|
| | 2022 | increase | decrease |
| Present value of defined benefit obligation | 2,297,307 | 2,059,725 | 2,498,056 |

30-8-2 Expected rate of salary increase

<December 31, 2022>

| Classification | December31, | 1%point | 1%point |
|---|-------------|-----------|-----------|
| | 2021 | increase | decrease |
| Present value of defined benefit obligation | 2,249,741 | 2,329,724 | 2,002,052 |

<December 31, 2021>

| Classification | December31, | 1%point | 1%point |
|---|-------------|-----------|-----------|
| | 2021 | increase | decrease |
| Present value of defined benefit obligation | 2,297,307 | 2,495,863 | 2,063,275 |

The sensitivity analyses above have been determined based on a method that extrapolates the impact on defined benefit obligation as a result of reasonable changes in key assumptions occurring at the end of the reporting period.

30–8–3 Employer contributions in 2023 reasonably estimated for the years ended December 31, 2022 amounts to $\frac{156,602}{156,602}$ million (employer contributions in 2022 reasonably estimated for the years ended December 31, 2021 amounts to $\frac{185,510}{1500}$ million), and the average durations of the defined benefit plan obligation as of December 31, 2022 and 2021, are 5.32–9.9 years and 5.91–10.17 years, respectively.

31. CONTINGENT, COMMITMENTS AND PROVISIONS

31–1 Details of provisions as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|--|-------------------|-------------------|
| Allowance for possible losses | | |
| on acceptances and guarantees: | | |
| Financial acceptances and guarantees (*) | 2,565 | 1,682 |
| Non-financial acceptances and guarantees | 81,450 | 34,887 |
| Bills endorsed | 13 | 15 |
| Subtotal | 84,028 | 36,584 |
| Allowances for unused commitments | 115,314 | 114,094 |
| Other allowance: | | |
| Allowances for restoration cost | 61,856 | 65,312 |
| Allowance for lawsuits | 43,227 | 77,742 |
| Others | 332,336 | 293,690 |
| Subtotal | 437,419 | 436,744 |
| Total | 636,761 | 587,422 |

(*) The Group recognizes the amount of financial guarantee contracts subsequently measured that exceed the unamortized balance as provisions for acceptances and guarantees on initial recognition. The unamortized balance amounts to \pm 14,843 million and \pm 12,096 million as of December 31, 2022 and 2021, respectively, and are categorized as financial guarantee contract liability.

31–2 Changes in allowances for unused commitments for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<2022>

| | Allowan | Allowances for unused commitments | | | | | |
|--|-------------|--------------------------------------|----------------------------------|---------|--|--|--|
| Classification | | Lifetime | ECL | Total | | | |
| Glassification | 12month ECL | Non credit-impaired financial assets | Oredit-impaired financial assets | i Ottai | | | |
| Beginning balance | 76,971 | 32,989 | 4, 134 | 114,094 | | | |
| Transfer to 12 month ECL | 8,457 | (6,797) | (1,660) | _ | | | |
| Transfer to non credit-impaired financial assets | (2,976) | 3,051 | (75) | _ | | | |
| Transfer to credit-impaired financial assets | (268) | (172) | 440 | _ | | | |
| (Reversal) provision | (3,603) | 5,704 | 1,131 | 3,232 | | | |
| Exchange rate fluctuation | (2,169) | 117 | - | (2,052) | | | |
| Others | 40 | - | - | 40 | | | |
| Endingbalance | 76,452 | 34,892 | 3,970 | 115,314 | | | |

<2021>

| | Allowar | | | |
|--|-------------|-------------------------------------|----------------------------------|----------|
| Classification | | Lifetim | e ECL | Total |
| Olassincation | 12month ECL | Noncredit-impaired financial assets | Credit-impaired financial assets | |
| Beginning balance | 87,148 | 39,521 | 4,332 | 131,001 |
| Transfer to 12 month ECL | 11,504 | (9,051) | (2,453) | - |
| Transfer to non credit-impaired financial assets | (3,328) | 3,425 | (97) | _ |
| Transfer to credit-impaired financial assets | (226) | (120) | 346 | - |
| (Reversal) provision | (18,236) | (859) | 2,007 | (17,088) |
| Exchange rate fluctuation | 109 | 73 | (1) | 181 |
| Ending balance | 76,971 | 32,989 | 4,134 | 114,094 |

31–3 Changes in provision for financial guarantees for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<2022>

| | Allowa | Allowances for unused commitments | | | | | |
|--|-------------|-------------------------------------|----------------------------------|-------|--|--|--|
| Classification | | Lifetim | e ECL | Total | | | |
| Signation | 12month ECL | Noncredit-impaired financial assets | Credit-impaired financial assets | rota | | | |
| Beginning balance | 1,667 | 15 | _ | 1,682 | | | |
| Transfer to 12 month expected credit loss | 1 | (1) | _ | - | | | |
| Transfer to non credit-impaired financial assets | (11) | 11 | _ | _ | | | |
| Provision | 311 | 253 | - | 564 | | | |
| Exchange rate fluctuation | 3 | _ | - | 3 | | | |
| Others | 316 | _ | - | 316 | | | |
| Ending balance | 2,287 | 278 | _ | 2,565 | | | |

<2021>

| | Allowa | Allowances for unused commitments | | | | |
|--|-------------|--------------------------------------|----------------------------------|-------|--|--|
| Classification | | Lifetim | e ECL | Total | | |
| | 12month ECL | Non credit-impaired financial assets | Credit-impaired financial assets | 700 | | |
| Beginning balance | 2,296 | 14 | 1 | 2,310 | | |
| Transfer to 12 month expected credit loss | 1 | (1) | - | - | | |
| Transfer to non credit-impaired financial assets | (1) | 1 | - | - | | |
| Reversal | (695) | _ | _ | (695) | | |
| Exchange rate fluctuation | 18 | 1 | - | 19 | | |
| Others | 48 | _ | _ | 48 | | |
| Ending balance | 1,667 | 15 | = | 1,682 | | |

31–4 Changes in other provisions for the years ended December 31, 2022 and 2021 are as follows (Korean won in millions):

<2022>

| Classification | January 1, 2022 | Increase due to business combination | Provision (reversal) | Allowance used | Others | December31, 2022 |
|--|--------------------|--------------------------------------|-------------------------|-------------------|--------|---------------------|
| Non-financial acceptances and guarantees | 34,902 | _ | 44,623 | _ | 1,938 | 81,463 |
| Other allowance: | | | | | | |
| Allowances for restoration cost | 65,312 | 8 | (1,704) | (3,231) | 1,471 | 61,856 |
| Allowance for lawsuits | 77,742 | - | (19,233) | (15,954) | 672 | 43,227 |
| Others | 293,690 | _ | 64,317 | (25,226) | (445) | 332,336 |
| Subtotal | 436,744 | 8 | 43,380 | (44,411) | 1,698 | 437,419 |
| Total | 471,646 | 8 | 88,003 | (44,411) | 3,636 | 518,882 |

<2021>

| Classification | January 1, 2021 | Provision (reversal) | Allowance used | Others | December31, 2021 |
|---|--------------------|-------------------------|-------------------|--------|---------------------|
| Non-financial acceptances and guarantee | 32,540 | (1,025) | _ | 3,387 | 34,902 |
| Other allowance: | | | | | |
| Allowances for restoration cost | 75,257 | 683 | (16,426) | 5,798 | 65,312 |
| Allowances for reward points | 1 | (1) | _ | 1 | - |
| Allowance for lawsuits | 62,500 | 17,642 | (2,771) | 371 | 77,742 |
| Others | 251,630 | 64,128 | (22,153) | 85 | 293,690 |
| Subtotal | 389,388 | 82,452 | (41,350) | 6,254 | 436,744 |
| Total | 421,928 | 81,427 | (41,350) | 9,641 | 471,646 |

31–5 Details of guarantees as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classifi ¹ i | Amount of g | uarantee |
|---|-------------------|-------------------|
| Classification | December 31, 2022 | December 31, 2021 |
| Financial acceptances and guarantees in Koreanwon: | | |
| Private bond issue payment guarantee | 94,500 | 71,00 |
| Collateral for loans | 43,130 | 45,25 |
| Loans for purchase | 307,369 | 249,24 |
| Loan commitment | 120,119 | 110,94 |
| Commitment to acquire securities | 743,287 | 972,8 |
| Others | 2,190 | |
| Subtotal | 1,310,595 | 1,449,29 |
| Financial acceptances and guarantees in foreign currencies | 2,725 | 2,54 |
| Confirmed acceptances and guarantees in Koreanwon | 2,446,127 | 1,857,5 |
| Confirmed acceptances and guarantees in foreign currencies: | | |
| Acceptance on letter of credit | 2,213,852 | 2,189,4 |
| Acceptance on letter of guarantees | 101,659 | 91,9 |
| Others | 10,137,249 | 7,437,4 |
| Subtotal | 12,452,760 | 9,718,8 |
| Contingent acceptances and guarantees: | | |
| Letters of credit | 4,080,758 | 4,114,5 |
| Others | 1,575,952 | 730,8 |
| Subtotal | 5,656,710 | 4,845,4 |
| Bills endorsed | 10,708 | 12,0 |
| Total | 21,879,625 | 17,885,7 |

31-6 Unused commitments

Details of unused commitments as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| | Unusedcor | nmitments |
|--|----------------------|---------------------|
| Classification | December 31, 2022 | December31, 2021 |
| Commitments on loans in Korean won | 92,221,193 | 84,870,711 |
| Commitments on loans in foreign currencies | 28,960,161 | 23,829,960 |
| Commitments on credit lines on asset-backed securities | 85,200 | 247,596 |
| Commitments on purchase of securities | 11,871,082 | 9,523,616 |
| Merchant banking account-commitment | 620,000 | 790,000 |
| Others | 634 | 593 |
| Total | 133,758,270 | 119,262,476 |

31–7 Pending litigation

As of December 31, 2022, the Group is involved in 1,793 lawsuits as a plaintiff and 834 lawsuits as a defendant. The aggregate amounts of claims as a plaintiff and a defendant are approximately \(\psi \)453,246 million and \(\psi \)686,463 million, respectively. The Group's material lawsuits in progress as a defendant are as follows (Korean won in millions):

| Defendant | Plaintiff | Amagunt | 9 | Status of lawsui | t | Content |
|--------------------------------------|----------------------------|---------|-------------|--------------------------|-------------|----------------------------------|
| Defendant | Plainuii | Amount | First trial | secondtrial | thirdtrial | Content |
| Hana Alternative Asset Management | **** Insurance Co., Ltd. | 56,382 | In-progress | - | - | Compensation for damages |
| Hana Bank | Bankruptcy trustee(F*****) | 42,573 | Won | In-progress | - | Restitution of unjust enrichment |
| HanaF&I | Shin** | 38,542 | In-progress | - | - | Appeal against dividend |
| Hana Bank | **** Securities Co., Ltd | 37,136 | Won | In-progress | - | Compensation for damages |
| Hana Bank | **** Investment Co., Ltd | 16,798 | Won | Some win in a litigation | In-progress | Compensation for damages |
| Hana Bank | ****Cooperation Co., Ltd. | 15,000 | In-progress | _ | _ | Restitution of unjust enrichment |
| Hana Bank | **** Securities Co., Ltd | 10,000 | In-progress | _ | _ | Compensation for damages |

31-8 COVID-19 impact

Due to the spread of COVID-19, major economic factors are expected to worsen due to the domestic and international economic slowdown in domestic and the ripple effects of financial instability. Considering the possibility of entering a global recession caused by the global spread of COVID-19, the economic forecast scenario used to estimate ECLs for financial instruments has been reset. As of December 31, 2022, the Group has remeasured forward-looking information by using macro variables and estimated default rates based on the scenario. In addition, the Group has additionally recognized the credit loss allowance by reviewing and adjusting credit rates for industries vulnerable to COVID-19 and conservatively evaluating the credit loss

allowance on an individual assessment basis. The Group manages exposure to high-risk industries and high-risk groups/companies and preemptively responds to credit risk that will increase in the future by measuring lifetime ECL allowance on borrowers subject to deferred repayment of interest or principal and interest in installments.

In addition, the key assumptions used by financial instruments were based on fair values calculated based on the estimated assumptions taking into account the impact of COVID-19 as of December 31, 2022. The Group has prepared the consolidated financial statements by reasonably estimating the impact of COVID-19 on the consolidated financial statements for the year ended December 31, 2022. However, the ultimate impact of the future spread of COVID-19 on the consolidated financial position, financial performance and cash flows of the Group cannot be predicted.

31–9 Uncertainties Related to Overseas Subsidiaries

31–9–1 Hana Microfinance LTD, the Group's overseas subsidiary, is experiencing a contraction in normal operation due to movement restrictions as of December 31, 2022 due to the spread and disruption of COVID–19 and Myanmar unrest.

If this situation continues for a long time, the uncertainty of loan receivable collection may increase, and it is difficult to predict the ultimate effect on the consolidated financial position, consolidated financial performance and consolidated cash flows as of December 31, 2022. The Group is responding to possible crises by continuously monitoring economic conditions to minimize the impact on the Group.

31–9–2 The ongoing armed conflict in the Ukraine area which began in February 2022 and international sanctions imposed against Russia may impact sanctioned entities, entities doing business with Ukraine or Russia, as well as entities exposed directly or indirectly to industries or the economy of Ukraine or Russia. As of the reporting date, the Group expects that the event has a financial impact on the business of KEB HNB RUS LLC, a subsidiary, but the financial impact of such events cannot be estimated reasonably.

32. OTHER LIABILITIES

32–1 Details of other liabilities as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|------------------------------|-------------------|-------------------|
| Accounts payable | 8,368,200 | 9,665,502 |
| Accrued expense payables | 3,119,342 | 1,693,293 |
| Advances | 315,200 | 208,385 |
| Income in advance | 711,243 | 672,439 |
| Policy reserve | 4,698,380 | 4,376,685 |
| Separate account liabilities | 1,902,439 | 1,781,403 |

| Classification | December 31, 2022 | December 31, 2021 |
|--|-------------------|-------------------|
| Borrowing fromtrust accounts | 7,882,857 | 5,874,089 |
| Foreign exchanges settlement credits | 937,940 | 585,628 |
| Domestic exchange settlement credits | 5,512,803 | 6,172,698 |
| Deposits for letter of guarantees and others | 2,665,544 | 1,132,396 |
| Taxes withheld | 288,449 | 157,077 |
| Security deposits received | 281,894 | 74,371 |
| Accounts for agency businesses | 190,874 | 352,697 |
| Agency | 2,869,079 | 2,332,083 |
| Leaseliabilities | 521,555 | 397,394 |
| Merchant banking account liabilities | 3,667,273 | 2,908,280 |
| Others | 1,312,958 | 944,114 |
| Present value discount | (73,813) | (36,532) |
| Total | 45,172,217 | 39,292,002 |

32–2 Details of merchant banking account liabilities as of December 31, 2022 and 2021 are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|------------------------------------|-------------------|-------------------|
| Merchant banking account deposits | 3,666,199 | 2,908,071 |
| Merchant banking account others(*) | 1,074 | 209 |
| Total | 3,667,273 | 2,908,280 |

^(*) Merchant banking account others consist of accrued expense payables.

32-3 Details of policy reserve as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|-----------------------|-------------------|-------------------|
| Premiumreserve | 4,263,417 | 3,934,235 |
| Prepaidpremiumreserve | 234,596 | 236,430 |
| Guaranteedreserve | 6,902 | 4,887 |
| Outstanding claim | 193,465 | 201,133 |
| Total | 4,698,380 | 4,376,685 |

32–4 Changes in the policy reserve for the years ended December 31, 2022 and 2021 are as follows (Korean won in millions):

<2022>

| Classification | January 1, 2022 | Changes | December 31, 2022 |
|-------------------------|-----------------|---------|-------------------|
| Premiumreserve | 3,934,235 | 329,182 | 4,263,417 |
| Prepaid premium reserve | 236,430 | (1,834) | 234,596 |
| Guaranteedreserve | 4,887 | 2,015 | 6,902 |
| Outstanding claim | 201,133 | (7,668) | 193,465 |
| Total | 4,376,685 | 321,695 | 4,698,380 |

<2021>

| Classification | January 1, 2021 | Changes | December 31, 2021 |
|-------------------------|-----------------|---------|-------------------|
| Premiumreserve | 3,669,316 | 264,919 | 3,934,235 |
| Prepaid premium reserve | 208,455 | 27,975 | 236,430 |
| Guaranteedreserve | 5,122 | (235) | 4,887 |
| Outstanding claim | 193,591 | 7,542 | 201,133 |
| Total | 4,076,484 | 300,201 | 4,376,685 |

32-5 Details of lease liabilities as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | ation Nominal value Present value discount | | Bookvalue |
|--------------------------|--|----------|-----------|
| Real estate for business | 533,244 | (32,094) | 501,150 |
| Vehicles | 19,316 | (868) | 18,448 |
| Others | 2,045 | (88) | 1,957 |
| Total | 554,605 | (33,050) | 521,555 |

<December 31, 2021>

| Classification | Classification Nominal value Present value discount | | Bookvalue |
|--------------------------|---|----------|-----------|
| Real estate for business | 395,914 | (14,220) | 381,694 |
| Vehicles | 15,652 | (403) | 15,249 |
| Others | 462 | (11) | 451 |
| Total | 412,028 | (14,634) | 397,394 |

32-6 Changes in lease liabilities for the years ended December 31, 2022 and 2021 are as follows (Korea won in millions):

<2022>

| Classification | January 1, 2022 | Increase due to business combination | Increase | Amortization | Payment(*) | Other | December31, 2022 |
|----------------|--------------------|--------------------------------------|----------|--------------|------------|---------|---------------------|
| Real-estate | 381,694 | 645 | 329,380 | 11,466 | (213,925) | (8,110) | 501,150 |
| Vehicles | 15,249 | - | 12,312 | 386 | (8,609) | (890) | 18,448 |
| Others | 451 | 107 | 2,448 | 93 | (983) | (159) | 1,957 |
| Total | 397,394 | 752 | 344,140 | 11,945 | (223,517) | (9,159) | 521,555 |

(*) The total cash outflow related to lease liabilities for the year ended December 31, 2022 is ₩223,276 million.

<2021>

| Classification | January 1, 2021 | Increase | Amortization | Payment (*) | Other | December 31, 2021 |
|----------------|--------------------|----------|--------------|-------------|----------|----------------------|
| Real-estate | 400,227 | 223,712 | 9,127 | (214,347) | (37,025) | 381,694 |
| Vehicles | 15,821 | 9,451 | 285 | (9,512) | (796) | 15,249 |
| Others | 429 | _ | 25 | (717) | 714 | 451 |
| Total | 416,477 | 233,163 | 9,437 | (224,576) | (37,107) | 397,394 |

(*) The total cash outflow related to lease liabilities for the year ended December 31, 2021 is ₩224,509 million.

32–7 Details of the composition by maturity of the contractual cash flows before discounting the lease liability as of December 31, 2022 and 2021, are as follows (Korea won in millions):

<December 31, 2022>

| Classification | Not more than 1 month | Not more than 3 month | Not more than 6 month | Not more than 1 year | Not more than 5 years | Morethan 5 years | Total |
|----------------|-----------------------|-----------------------|-----------------------|-------------------------|--------------------------|---------------------|---------|
| Real-estate | 18,748 | 33,627 | 49,846 | 92,544 | 279,404 | 59,075 | 533,244 |
| Vehicles | 732 | 1,395 | 1,961 | 3,619 | 11,609 | - | 19,316 |
| Others | 82 | 32 | 115 | 225 | 1,591 | - | 2,045 |
| Total | 19,562 | 35,054 | 51,922 | 96,388 | 292,604 | 59,075 | 554,605 |

<December 31, 2021>

| Classification | Not more than 1 month | Not more than 3 month | Not more than 6 month | Not more than 1 year | Not more than 5 years | Morethan 5 years | Total |
|----------------|-----------------------|-----------------------|--------------------------|-------------------------|-----------------------|---------------------|---------|
| Real-estate | 19,376 | 35,594 | 48,464 | 84,960 | 170,367 | 37,153 | 395,914 |
| Vehicles | 699 | 1,227 | 1,606 | 2,901 | 9,192 | 27 | 15,652 |
| Others | 78 | 23 | 100 | 122 | 139 | _ | 462 |
| Total | 20,153 | 36,844 | 50,170 | 87,983 | 179,698 | 37,180 | 412,028 |

32–8 Assessment of the adequacy of liabilities

32-8-1 The experience rates and calculation basis used by the Group for the liability adequacy test are as follows

| Classif | ication | Calculation methodology |
|-------------------------------------|--------------------------|--|
| | Discount rate | Two hundred scenarios suggested by the Governor of the Financial Supervisory S ervice are applied. |
| | Business expense rate | Based on the last year experience statistics, business expense rate is estimated by calculating the ratio of detailed business expenses to total business expenses categorized by types of product, premium payment method, business expense (new acquisition cost or maintenance cost) and elapsed time. Besides the experience statistics, the Group reasonably estimated the trend of business expense by considering the variability arising from inflation and changes in management policies. Temporary expenses that are not expected to incur are excluded from the assumption for calculation of the business expense rate. |
| Hana Life Insurance Co., Ltd. | Surrender ratio | Based on the last five years' experience statistics, surrender ratio is estimated by calculating the ratios of elapsed or canceled contracts to total contracts held by the Group by types of product, premium payment method, sales channel and lapse of time. The ratio is calculated on the basis of 50 or more historical data to ensure statistical reliability. If the historical data is insufficient, the Group applies surrender ratio of a similar type of contract, uses trends by elapsed time or reclassifies the categories for the surrender ratio to ensure statistical reliability. The Group considers elapsed time, premium payment status, employee benefits policy, the period of tax benefit for an insurance contract, trend on the market interest rate which can be influential on surrender ratio. The Group applies the same surrender ratio after the specific period of elapsed time to the end of the projected period. If there are temporary increases in surrender ratio due to tax benefits, the Group calculates the final surrender ratio by eliminating the tax benefit effect or by applying the surrender ratio for the period in which there is no effect. |
| | Riskrate | Based on the last five years' experience statistics, risk rate is calculated based on the ratio of payment of premium to risk premium by collateral, time of sales (by experience life table), and elapsed time. Risk rate is reasonably calculated after reviewing and applying increase rate/trend rate compared to previous year or on ayearly basis. When risk rate is applied, at least 10 years of risk rate should be applied. But in case of decline in cash flow stability due to extreme fluctuation in risk rate by elapsed time caused by shortage of statistics after five years, risk rate can be calculated by adding statistics by elapsed time. In order to retain statistical |
| | | reliability by category, there should be at least 50 experience statistics. For sections that are short of such experience statistics, similar risk rates of other categories are applied. In case the reliability of the calculation results is not guaranteed due to shortage of experience statistics, trends by elapsed time of similar risk rates or upper-level category may be applied. |

| Classification | | Calculation methodology | | |
|-------------------------------|-------------------------|--|--|--|
| | Discount rate | The discount rate for calculating the present value of future net cash flows is the future operating asset return rate, and the future operating asset return rate is calculated by reflecting future prospects, such as future trends, risk rates and the Group's operational strategy. | | |
| | | -Long-term insurance Based on the prior-year experience statistics, business expense rate is estimated by calculating the ratio of detailed business expenses to total business expenses categorized by types of product, premium payment method, business expenses (new acquisition costs or maintenance costs) and elapsed time. Besides the experience statistics, the Group reasonably estimated the trend of business expenses by considering the variability arising from inflation and changes in management policies. Temporary expenses that are not expected to incur are excluded from the assumption for calculation of the business expense rate. | | |
| | Business expenserate | General insurance: General insurance is assessed based on the "large classification criteria set forth in Appendix 2. Types of Insurance in the standard business method of [Attachment 14] of the Insurance Business Supervision Regulations" as the evaluation unit, and the costs of maintaining the contract compared to the prior year's premium was calculated as an assumption of the business expense rate. Temporary expenses are excluded from the assumption for the calculation of the business expense rate. | | |
| | | -Automobile insurance For automobile insurance, the cost of maintaining the contract compared to the prior year's premium for each collateral (personal, property, descendant, vehicle, uninsured, etc.) was calculated as an assumption of business expense rate. Temporary expenses are excluded from the assumption for the calculation of the business expense rate. | | |
| Hana Insurance . Co., Ltd. | Surrenderratio | Based on the last five years' experience statistics, surrender ratio is estimated by calculating the ratios of elapsed or cancelled contracts to total contracts held by the Group by types of product, premium payment method, sales channel and lapse of time. The ratio is calculated on the basis of 50 or more historical data to ensure statistical reliability. If the historical data is insufficient, the Group applies surrender ratio of a similar type of contract, uses trends by elapsed time or reclassifies the categories for the surrender ratio to ensure statistical reliability. The Group considers elapsed time, premium payment status, employee benefits policy, the period of tax benefit for an insurance contract and trends in the market interest rate, which can be influential on surrender ratio. The Group applies the same surrender ratio after the specific period of elapsed time to the end of the projected period. If there are temporary increases in surrender ratio due to tax benefits, the Group calculates the final surrender ratio by eliminating the tax benefit effect or by applying the surrender ratio for the period in which there is no effect. | | |
| | Riskrate | Based on the last five years' experience statistics, risk rate is calculated based on the ratio of payment of premium to risk premium by collateral, time of sales (by experience life table) and elapsed time. Risk rate is reasonably calculated after reviewing and applying increase rate/trend rate compared to previous year or on a yearly basis. When risk rate is applied, at least 10 years of risk rate should be applied. But in case of a decline in cash flow stability due to extreme fluctuation in risk rate by elapsed time caused by shortage of statistics after five years, risk rate can be calculated by adding statistics by elapsed time. In order to retain statistical reliability by category, there should be at least 50 experience statistics. For sections that are short of such experience statistics, similar risk rates of other categories are applied. In case the reliability of the calculation results is not guaranteed due to shortage of experience statistics, trends by elapsed time of similar risk rates or upper-level category may be applied. | | |

| Classific | cation | Calculation methodology |
|-----------|--------------------------------|---|
| | Loss ratio | -General insurance: General insurance is assessed based on the "large classification criteria set forth in Appendix 2. Types of Insurance in the standard business method of [Attachment 14] of the Insurance Business Supervision Regulations" as the evaluation unit, and the loss ratio assumption was calculated by analyzing the experience statistics for the previous five years and calculating the loss ratio applied to future cash flows and the cash-out ratio for each period of progress. |
| | | -Automobile insurance: Automobile insurance is assessed based on each collateral (personal, property, descendant, vehicle, uninsured, etc.) as the evaluation unit, and the loss ratio assumption was calculated by analyzing the experience statistics for the previous five years and calculating the loss ratio applied to future cash flows and the cash-out ratio for each period of progress. |
| | Loss investigation ratio | -General insurance: General insurance is assessed based on the "large classification criteria set forth in Appendix 2. Types of Insurance in the standard business method of [Attachment 14] of the Insurance Business Supervision Regulations", as the evaluation unit, and the loss investigation costs relative to the insurance payment for the previous three years are used as the assumption for the calculation of the loss investigation ratio. -Automobile insurance: Automobile insurance is assessed based on each collateral (personal, property, descendant, vehicle, uninsured, etc.) as the evaluation unit, and the loss investigation costs relative to the insurance payment for the previous three years are used as the assumption for the calculation of the loss investigation ratio. |

32-8-2 The results of LAT as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | | Reserve for test | LATbase(*1) | Premiumsurplus (loss) (*2) |
|------------------------|-------------------------|------------------|-------------|-------------------------------|
| | Interest rate-linked | 2,278,111 | 2,266,205 | 11,906 |
| Hana Life Insurance | Interest rate-fixed | 1,164,903 | 912,451 | 252,452 |
| ii ibararico | Variable life insurance | (2,092) | (41,589) | 39,497 |
| Subtotal | | 3,440,922 | 3,137,067 | 303,855 |
| Hana | General insurance | 18,502 | 12,354 | 6,148 |
| Insurance | Automobile insurance | 202,849 | 206,543 | (3,694) |
| Co.,Ltd. | Long-terminsurance (*3) | 654,193 | 380,426 | 273,767 |
| Subtotal | | 875,544 | 599,323 | 276,221 |
| | Total (*4) | 4,316,466 | 3,736,390 | 580,076 |

- (*1) LAT of the Group is conducted at the end of reporting period, and surplus to reserve for the test is calculated as of December 31, 2022.
- (*2) Surplus= Reserve for test LAT base((-) is loss, (+) is surplus)
- (*3) For the long-term insurance calculation, the amount is calculated by adding or subtracting new acquisition costs



from the insurance premium reserve. For the calculation of general insurance and automobile insurance, unpaid insurance premiums based on the original insurance are considered.

(*4) The Group did not record additional reserves since the surplus exceeded the deficit based on the result of LAT.

<December 31, 2021>

| Classification | | Reserve for test | LATbase(*1) | Premiumsurplus (loss) (*2) |
|------------------------|-------------------------|------------------|-------------|-------------------------------|
| | Interest rate-linked | 2,458,818 | 2,399,609 | 59,209 |
| Hana Life Insurance | Interest rate-fixed | 711,698 | 650,143 | 61,555 |
| modraneo | Variable life insurance | (1,590) | (52,770) | 51,180 |
| | Subtotal | 3,168,926 | 2,996,982 | 171,944 |
| Hana | General insurance | 17,941 | 12,321 | 5,620 |
| Insurance. | Automobile insurance | 207,265 | 209,410 | (2,145) |
| Co.,Ltd. | Long-terminsurance (*3) | 601,901 | 407,901 | 194,000 |
| Subtotal | | 827,107 | 629,632 | 197,475 |
| | Total (*4) | 3,996,033 | 3,626,614 | 369,419 |

- (*1) LAT of the Group is conducted at the end of reporting period, and the surplus to reserve for the test is calculated as of December 31, 2021.
- (*2) Surplus= Reserve for test LAT base((-) is loss, (+) is surplus)
- (*3) For the long-term insurance calculation, the amount is calculated by adding or subtracting new acquisition costs from the insurance premium reserve. For the calculation of general insurance and automobile insurance, unpaid insurance premiums based on the original insurance are considered.
- (*4) The Group did not record additional reserves since the surplus exceeded the deficit based on the result of LAT.

33, CAPITAL STOCK AND CAPITAL SURPLUS

33-1 Details of capital stock as of December31, 2022 and 2021 areas follows (Korean won):

| Classification | December 31, 2022 | December 31, 2021 |
|-----------------------------|--------------------|--------------------|
| Number of shares authorized | 800,000,000 shares | 800,000,000 shares |
| Parvalue per share | ₩5,000 | ₩5,000 |
| Number of shares issued | 295,903,476 shares | 300,242,062 shares |

(*) The par value of issued shares and paid-in capital are different due to the retirement of shares (the number of shares retired: 4.338,586)

33–2 Changes in capital stock and capital surplus from December 1, 2005 (inception) to December 31, 2022, are as follows (Korean won in millions except for number of shares):

| Classification | Date | Shares | Commonstock | Capital surplus |
|------------------------------|---------------|-------------|-------------|-----------------|
| Incorporation | Dec. 1, 2005 | 204,256,243 | 1,021,281 | 5,075,488 |
| Stock dividends | Mar. 24, 2006 | 2,042,562 | 10,213 | _ |
| Shares swap (*1) | Oct. 13, 2006 | 5,552,788 | 27,764 | 215,427 |
| Paid-in capital increase | Feb. 21, 2011 | 31,198,170 | 155,991 | 1,168,759 |
| Shares swap (*2) | Apr. 5, 2013 | 46,844,299 | 234,221 | 1,511,856 |
| Paid-in capital increase | Apr. 21, 2015 | 6,109,000 | 30,545 | 149,298 |
| Paid-in capital increase | Mar. 9, 2018 | 4,239,000 | 21,195 | 178,688 |
| Retirement of Treasury stock | Apr. 29, 2022 | (4,338,586) | _ | _ |
| Total | | 295,903,476 | 1,501,210 | 8,299,516 |

- (*1) Represents transactions that the Group conducted to incorporate Hana Securities (formerly known as Hana IB) into its subsidiaries.
- (*2) Represents transactions that the Group conducted to incorporate Hana bank into its wholly owned subsidiaries.

33–3 Details of hybrid equity securities classified as equity attributable to equity holders of the Parent Company as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| | | | looka wa ak | Amount | | |
|----------------------------------|---------------------------------------|------------------|----------------------|----------------------|----------------------|--|
| Classification | Classification Issuance date Maturity | | Interest rate (%) | December 31, 2022 | December 31, 2021 | |
| The 1-2st hybrid debentures (*2) | May 29, 2015 | May 29, 2045 | 4.445 | 190,000 | 190,000 | |
| The 2-2st hybrid debentures (*2) | November 6, 2015 | November 6, 2045 | 4.612 | 20,000 | 20,000 | |
| The 3-1st hybrid debentures (*1) | March 9, 2018 | _ | 4.225 | 192,000 | 192,000 | |
| The 3-2st hybrid debentures (*2) | March 9, 2018 | _ | 4.680 | 50,000 | 50,000 | |
| The 4th hybrid debentures (*1) | November 8, 2018 | _ | 4.040 | 296,000 | 296,000 | |
| The 5th hybrid debentures (*1) | April 15, 2019 | - | 3.340 | 265,000 | 265,000 | |
| The 6-1st hybrid debentures (*1) | May 28, 2020 | _ | 3.200 | 450,000 | 450,000 | |
| The 6-2st hybrid debentures (*2) | March 28, 2020 | _ | 3.500 | 50,000 | 50,000 | |
| The 7-1st hybrid debentures (*1) | August 28, 2020 | - | 3.200 | 410,000 | 410,000 | |
| The 7-2st hybrid debentures (*2) | August 28, 2020 | _ | 3.550 | 90,000 | 90,000 | |
| The 8th hybrid debentures (*1) | May 13, 2021 | - | 3.200 | 220,000 | 220,000 | |
| The 9-1st hybrid debentures (*1) | September 9, 2021 | - | 3.340 | 280,000 | 280,000 | |
| The 9-2nd hybrid debentures (*2) | September 9, 2021 | - | 3.770 | 120,000 | 120,000 | |
| The 10th hybrid debentures (*1) | January 26, 2022 | - | 4.000 | 270,000 | - | |
| The 11th hybrid debentures (*1) | June 10, 2022 | _ | 4.550 | 400,000 | _ | |
| Subtotal | | | | 3,303,000 | 2,633,000 | |
| Issuance cost | | | | (8,312) | (6,541) | |
| Total | | | | 3,294,688 | 2,626,459 | |

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- (*1) Five years after the hybrid equity securities are issued, these can be redeemed at any point before the maturity date with the approval of the governor of the Financial Supervisory Service.
- (*2) Ten years after the hybrid equity securities are issued, these can be redeemed at any point before the maturity date with the approval of the governor of the Financial Supervisory Service.

33–4 Capital surplus as of December 31, 2022 and 2021, consists of the following (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|---------------------------------------|-------------------|-------------------|
| Paid-in capital in excess of parvalue | 8,299,516 | 8,299,516 |
| Gain on disposal of treasury stock | 76,372 | 76,372 |
| Other capital surplus | 2,205,403 | 2,200,699 |
| Total | 10,581,291 | 10,576,587 |

34. CAPITAL ADJUSTMENT

34–1 Details of capital adjustment as of December 31, 2022 and 2021, are summarized as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 | | |
|--------------------------|-------------------|-------------------|--|--|
| Treasury stock | (150,024) | (299,996) | | |
| Stockoption | 17 | 2 | | |
| Other capital adjustment | (15,034) | (15,612) | | |
| Total | (165,041) | (315,606) | | |

34–2 Fluctuations of the treasury stock for the years ended December 31, 2022 and 2021 are as follows (Korean won in millions and number of shares in unit):

<2022>

| Classification | January 1, 2022 | Retirement of treasury stock | December31, 2022 |
|------------------|--------------------|------------------------------|---------------------|
| Number of shares | 8,678,586 | (4,338,586) | 4,340,000 |
| Amount | 299,996 | (149,972) | 150,024 |

<2021>

| Classification | January 1, 2021 | Retirement of treasury stock | December 31, 2021 |
|------------------|--------------------|------------------------------|----------------------|
| Number of shares | 8,678,586 | _ | 8,678,586 |
| Amount | 299,996 | _ | 299,996 |

35. ACCUMULATED OCI

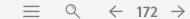
Changes in accumulated OCIs for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<2022> (Korean won in millions)

| Classification | Gain (loss) on valuation of Financial assets measured at FVOCI | Gain (loss) on exchange differences on translation offoreign operations | Changes in equities of investments in associates | Gain(loss) on valuation of net investment hedges of foreign operations | Gain (loss) on cash flow hedge | Gain(loss) on valuation of fairvalue hedges | Special account other comprehensive incomes | Credit risk fluctuation effect of financial liabilities designated at FVPTL | Remeasurement of the net defined benefit plan | Total |
|---|---|---|---|---|--------------------------------------|---|---|---|--|-------------|
| January 1, 2022 | (401,028) | (70,128) | 99,341 | (29,295) | 59 | (13,123) | (2,426) | (47,886) | (529,741) | (994,227) |
| Increase(decrease) due to business combination | - | - | _ | _ | _ | _ | - | - | (289) | (289) |
| Changes ingain (loss) on valuation of financial assets measured at FVOCI | (1,275,875) | _ | _ | _ | _ | _ | _ | _ | _ | (1,275,875) |
| Reclassified from financial debt security measured at FVOCI to financial assets measured at FVTPL | (8,603) | _ | _ | _ | _ | _ | _ | _ | _ | (8,603) |
| Reclassified from financial debt security measured at FVOCI to retained gain | 3,609 | _ | _ | _ | _ | _ | - | - | _ | 3,609 |
| Credit risk fluctuation of financial debt security measured at FVOCI | 94 | _ | _ | _ | _ | _ | - | - | _ | 94 |
| Changes in exchange differences on translation of foreign operations | - | 16,341 | _ | _ | _ | _ | - | - | _ | 16,341 |
| Changes in unrealized gain on valuation of equity method investments | - | _ | (23,966) | _ | _ | _ | - | - | _ | (23,966) |
| Changes in loss on valuation | | | | | | | | | | |
| of net investment hedges of foreign operations | - | _ | _ | (28,316) | _ | _ | _ | _ | _ | (28,316) |
| Changes in loss on cash flow hedge | - | - | - | - | (4,953) | _ | - | - | - | (4,953) |
| Changes in loss on valuation of fair value hedges | - | - | _ | _ | _ | (16,360) | - | - | _ | (16,360) |
| Changes in special account other comprehensive incomes | - | - | _ | _ | _ | _ | (22,167) | - | _ | (22,167) |
| Changes in credit risk fluctuation effect of financial liabilities designated at FVTPL | - | - | - | - | _ | _ | - | (12,024) | _ | (12,024) |
| Remeasurements of the net defined benefit liabilities (assets) | _ | - | - | - | _ | _ | _ | _ | 40,130 | 40,130 |
| Tax effect | 327,796 | (2,299) | 7,898 | 7,787 | 869 | 4,499 | 5,591 | 4,349 | (10,872) | 345,618 |
| December 31, 2022 | (1,354,007) | (56,086) | 83,273 | (49,824) | (4,025) | (24,984) | (19,002) | (55,561) | (500,772) | (1,980,988) |

<2021> (Korean won in millions)

| Classification | Gain (loss) on valuation of Financial assets measured at FVOCI | Gain (loss) on exchange differences ontranslation of foreign operations | Changes in equities of investments in associates | Gain(loss) on valuation of net investment hedges offoreign operations | Gain (loss) on cash flow hedge | Gain (loss) on valuation of fair value hedges | Special account other comprehensive incomes | Creditrisk fluctuation effect of financial liabilities designated at FVPTL | Remeasurement of the net defined benefit plan | Total |
|---|--|---|--|---|--------------------------------------|---|---|--|--|-------------|
| January 1, 2021 | 22,228 | (344,273) | (83,317) | 11,493 | (1,840) | 1,014 | (618) | (37,531) | (569,109) | (1,001,953) |
| Changes in gain (loss) on valuation of financial assets measured at FVOCI | (441,417) | - | - | - | - | - | - | - | - | (441,417) |
| Reclassified from financial debt security measured at FVOCI to financial assets measured at FVTPL | (92,994) | _ | _ | - | - | - | - | _ | - | (92,994) |
| Reclassified from financial debt security measured at FVOCI to retained gain | (51,163) | - | _ | - | - | - | _ | _ | - | (51,163) |
| Credit risk fluctuation of financial debt security measured at FVOCI | 1,420 | _ | - | - | - | - | - | - | _ | 1,420 |
| Changes in exchange differences on translation of foreign operations | - | 292,617 | - | - | _ | - | - | - | _ | 292,617 |
| Changes in unrealized gain on valuation of equity method investments | _ | _ | 251,247 | _ | - | - | _ | _ | _ | 251,247 |
| Changes in loss on valuation of net investment hedges of foreign operations | - | - | _ | (56,259) | - | - | _ | _ | _ | (56,259) |
| Changes in loss on cash flowhedge | - | _ | _ | _ | 2,612 | _ | _ | _ | _ | 2,612 |
| Changes in loss on valuation of fair value hedges | - | _ | _ | - | _ | (19,500) | _ | _ | _ | (19,500) |
| Changes in special account other comprehensive incomes | - | _ | - | - | - | - | (2,494) | - | _ | (2,494) |
| Changes in credit risk fluctuation effect of financial liabilities designated at FVTPL | _ | _ | _ | _ | _ | - | _ | (14,284) | _ | (14,284) |
| Remeasurements of the net defined benefit liabilities (assets) | - | _ | _ | _ | - | _ | - | _ | 54,354 | 54,354 |
| Tax effect | 160,898 | (18,472) | (68,589) | 15,471 | (713) | 5,363 | 686 | 3,929 | (14,986) | 83,587 |
| December31,2021 | (401,028) | (70,128) | 99,341 | (29,295) | 59 | (13,123) | (2,426) | (47,886) | (529,741) | (994,227) |



36. RETAINED EARNINGS

36-1 Retained earnings as of December 31, 2022 and 2021, consist of the following (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|----------------------------------|-------------------|-------------------|
| Legal reserve (*) | 926,600 | 813,400 |
| compensation for damages | 2,000 | 2,000 |
| Voluntary reserve | 3,654,391 | 3,653,230 |
| Unappropriated retained earnings | 18,612,302 | 16,355,582 |
| Total | 23,195,293 | 20,824,212 |

^(*) In accordance with the Financial Holding Company Act, whenever dividends are paid, an amount equal to at least 10% of net income is required to be appropriated as a legal reserve until the reserve amount equals the aggregate par value of common stock. The legal reserve may not be utilized for cash dividends but may only be used to offset a deficit, if any, or be transferred to the capital.

36–2 Changes in retained earnings for years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|---|------------|------------|
| Beginningbalance | 20,824,212 | 17,941,584 |
| Net income attributable to equity holders of the parent | 3,552,391 | 3,526,068 |
| Dividends | (933,003) | (597,705) |
| Dividends on hybrid equity securities | (111,210) | (80,083) |
| Reclassification of gain on valuation of FVOCI securities | (224) | 37,096 |
| Retirement of Treasury stock | (149,972) | - |
| Others | 13,099 | (2,748) |
| Endingbalance | 23,195,293 | 20,824,212 |

37. REGULATORY RESERVE FOR BAD DEBTS

Regulatory reserves for bad debt is calculated and disclosed in accordance with Article 27, Sections 1 and 2 of the Financial Holding Company Act.

37–1 Balance of regulatory reserve for bad debt

Regulatory reserves for bad debt reserve as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|--|-------------------|-------------------|
| Beginning balance | 3,080,295 | 2,767,615 |
| Additional planned reserve for bad debts | 52,749 | 312,680 |
| Ending balance | 3,133,044 | 3,080,295 |
| Attributable to equity holders of the parent | 3,128,258 | 3,032,031 |
| Attributable to non-controlling interests | 4,786 | 48,264 |

37–2 Provision of bad debt reserve and adjusted income after deducting provisions for bad debt reserve, etc.

Provisions for bad debt reserves and income adjusted for deductions of provisions for bad debt for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions and per share amounts in units):

| Classification | 2022 | 2021 |
|---|-----------|-----------|
| Net income attributable to equity holders of the parent before deducting provisions for baddebt reserve | 3,552,391 | 3,526,068 |
| Provision of bad debt reserve | 96,227 | 312,862 |
| Adjusted income after deducting provisions for baddebt reserve | 3,456,164 | 3,213,206 |
| Basic earnings per share on adjustment (Korean won) (*) | 11,472 | 10,746 |
| Diluted earnings per share on adjustment (Korean won) (*) | 11,472 | 10,746 |

^(*) When calculating earnings per share on adjustment for the years ended December 2022 and 2021, the Group deducts dividends on hybrid equity securities (\text{\psi}111,211 million in 2022 and \text{\psi}80,083 million in 2021, respectively) from adjusted income after deducting provisions for bad debt reserve.



38. OPERATING INCOME AND EXPENSES

38–1 Total operating income for the years ended December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|--|------------|------------|
| Interest income | 15,876,580 | 10,867,491 |
| Fee and commission income | 2,735,800 | 2,653,186 |
| Gains on financial instruments at FVPL | 39,933,992 | 20,681,138 |
| Gains on financial instruments designated at FVPL | 1,020,589 | 367,518 |
| Gains on financial instruments measured at FVOCI | 26,545 | 113,978 |
| Gains on disposal of securities measured at amortized cost | 72,965 | 80,735 |
| Gain on derivative instruments used for hedging | 397,940 | 126,542 |
| Gain on foreign currency transactions | 8,677,131 | 5,197,457 |
| Recovery of impairment loss on financial assets | 361 | 2,530 |
| Other operating income | 2,101,877 | 1,587,197 |
| Total | 70,843,780 | 41,677,772 |

38–2 Total operating expenses for the years ended December 31, 2022 and 2021 are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|--|------------|------------|
| Interest expense | 6,956,817 | 3,430,286 |
| Fee and commission expense | 980,881 | 911,469 |
| Loss on financial instruments at FVTPL | 40,411,398 | 19,824,144 |
| Loss on financial instruments designated as measured at FVTP | 269,584 | 434,528 |
| Loss on financial instruments measured at FVOCI | 9,399 | 9,430 |
| Loss on disposal of securities measured at amortized cost | 11,899 | 3,905 |
| Loss on derivative instruments used for hedging purpose | 465,659 | 178,277 |
| Loss on foreign currency transactions | 8,161,046 | 5,159,135 |
| Impairment loss on financial assets | 1,187,159 | 535,748 |
| General and administrative expense | 4,432,949 | 4,050,460 |
| Other operating expense | 3,266,677 | 2,509,294 |
| Total | 66,153,468 | 37,046,676 |

39. NET INTEREST INCOME

39–1 Interest income for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|---|------------|------------|
| Interest income on due frombanks | 353,440 | 91,758 |
| Interest income on financial assets measured at FVOCI | 631,281 | 497,322 |
| Interest income on financial assets measured atamortized cost | 725,523 | 429,035 |
| Interest income on loans receivable | 13,600,530 | 9,478,602 |
| Subtotal | 15,310,774 | 10,496,717 |
| Interest income on financial assets measured at FVTPL | 468,236 | 305,319 |
| Others | 97,570 | 65,455 |
| Total | 15,876,580 | 10,867,491 |

39–2 Interest expenses for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|--|-----------|-----------|
| Interest expense on deposit liabilities | 4,612,680 | 2,077,615 |
| Interest expense on borrowings | 680,896 | 216,650 |
| Interest expense on debentures | 1,342,641 | 942,719 |
| Subtotal | 6,636,217 | 3,236,984 |
| Interest income on financial assets held for trading | 130,357 | 127,027 |
| Others | 190,243 | 66,275 |
| Total | 6,956,817 | 3,430,286 |

40. NET FEE AND COMMISSION INCOME

40-1 Fee and commission income for the years ended December 31, 2022 and 2021 are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|---|-----------|-----------|
| Fee and commission received from loans and others | 1,618,203 | 1,653,450 |
| Fee and commission received on credit card | 764,272 | 680,608 |
| Fee and commission received on guarantee | 89,740 | 78,364 |
| Fee and commission received from redemption before maturity | 2,137 | 2,745 |
| Fee and commission-related foreign exchange | 261,448 | 238,019 |
| Total | 2,735,800 | 2,653,186 |

40–2 Fee and commission expenses for the years ended December 31, 2022 and 2021 are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|---------------------------------------|---------|---------|
| Commission paid borrowings and others | 427,623 | 457,240 |
| Commission paid on credit card | 503,012 | 417,064 |
| Commission related for eign exchange | 50,128 | 37,081 |
| Commission paid trust | 118 | 84 |
| Total | 980,881 | 911,469 |

41. GAIN (LOSS) ON FINANCIAL INSTRUMENTS MEASURED AT FVTPL

Gain (loss) on financial instruments measured at FVTPL and held-for-trading for the years ended December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|--|------------|-----------|
| Gain on financial instruments measured at FVTPL: | | |
| Securities measured at FVTPL: | | |
| Gainonvaluation | 465,117 | 345,917 |
| Gainondisposal | 345,721 | 317,933 |
| Gainonredemption | 9,477 | 6,691 |
| Dividendincome | 329,566 | 351,055 |
| Subtotal | 1,149,881 | 1,021,596 |
| Loans measured at FVTPL: | 7,940 | 25,777 |
| Derivatives-linked securities | 1,233 | 16,652 |
| Derivatives held for trading: | | |
| Gain on valuation of derivatives: | | |
| Currency related derivatives | 8,994,535 | 5,766,864 |
| Interest related derivatives | 1,872,293 | 517,650 |
| Stockrelated derivatives | 121,181 | 116,405 |
| Credit related derivatives | 184,125 | 26,910 |
| Others related derivatives | 149,960 | 91,018 |
| Subtotal | 11,322,094 | 6,518,847 |
| Gain on transactions of derivatives: | | |
| Currency related derivatives | 17,668,065 | 8,271,115 |
| Interest related derivatives | 7,916,006 | 3,275,827 |

| Classification | 2022 | 2021 |
|---|------------|------------|
| Stockrelatedderivatives | 1,088,110 | 1,052,100 |
| Credit related derivatives | 130,662 | 56,50 |
| Others related derivatives | 508,029 | 393,272 |
| Subtotal | 27,310,872 | 13,048,81 |
| Gainonsecurities sold | 109,177 | 34,75 |
| Gain on other financial instruments measured at FVTPL | 32,795 | 14,70 |
| Total | 39,933,992 | 20,681,138 |
| Loss on financial instruments measured at FVTPL: | | |
| Securities measured at FVTPL: | | |
| Loss on valuation | 977,577 | 451,07 |
| Loss on disposal | 693,361 | 295,19 |
| Loss on redemption | 5,736 | 22,86 |
| Transaction cost | 1,407 | 15 |
| Subtotal | 1,678,081 | 769,28 |
| Loans measured at FVTPL: | 10,940 | 10,86 |
| Derivatives-linkedsecurities | 33,053 | 9,13 |
| Derivatives held for trading: | | |
| Loss on valuation of derivatives: | | |
| Currency related derivatives | 9,588,159 | 5,795,59 |
| Interest related derivatives | 2,204,134 | 763,47 |
| Stockrelatedderivatives | 325,735 | 185,59 |
| Credit related derivatives | 199,063 | 47,22 |
| Others related derivatives | 279,032 | 79,96 |
| Subtotal | 12,596,123 | 6,871,86 |
| Loss on transactions of derivatives: | | |
| Currency related derivatives | 17,603,955 | 7,926,96 |
| Interest related derivatives | 6,554,736 | 2,915,74 |
| Stockrelatedderivatives | 1,267,189 | 900,56 |
| Credit related derivatives | 121,049 | 54,88 |
| Others related derivatives | 528,616 | 346,60 |
| Subtotal | 26,075,545 | 12,144,76 |
| Loss on securities sold | 17,656 | 18,23 |
| Total | 40,411,398 | 19,824,14 |
| Net amount | (477,406) | 856,99 |



42. GAIN (LOSS) ON FINANCIAL INSTRUMENTS DESIGNATED AS MEASURED AT FVPL

Gain (loss) on financial assets and liabilities designated as measured at FVPL for the years ended December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classification | 2022 | 2021 | |
|--|-----------|----------|--|
| Gain on financial instruments designated as measured at FVTPL: | | | |
| Deposits: | | | |
| Gainonvaluation | 33,531 | 10,058 | |
| Gainonredemption | _ | 12 | |
| Borrowings: | | | |
| Gainonvaluation | 2,340 | 779 | |
| Gain on redemption | 334 | - | |
| Derivatives linkedsecurities sold: | | | |
| Gainonvaluation | 882,482 | 234,577 | |
| Gainonredemption | 101,902 | 122,092 | |
| Total | 1,020,589 | 367,518 | |
| Loss on financial instruments designated as measured at FVTPL: | , | | |
| Deposits: | | | |
| Loss on redemption | - | 412 | |
| Borrowings: | | | |
| Loss on valuation | _ | 320 | |
| Loss on redemption | 862 | - | |
| Derivatives linkedsecurities sold: | | | |
| Loss on valuation | 105,456 | 101,675 | |
| Loss on redemption | 163,267 | 332,121 | |
| Total | 269,585 | 434,528 | |
| Net amount | 751,004 | (67,010) | |

43. GAIN (LOSS) ON FINANCIAL ASSETS MEASURED AT FVOCI

Gain (loss) on financial assets measured at FVOCI for the years ended December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classification | 2022 | 2021 | |
|--|--------|---------|--|
| Gain on financial assets measured at FVOCI | | | |
| Gain on disposal | 12,711 | 103,184 | |
| Gainonredemption | 3 | _ | |
| Dividendincome | 13,831 | 10,794 | |
| Total | 26,545 | 113,978 | |
| Loss on financial assets measured at FVOCI | | | |
| Loss on disposal | 9,302 | 9,430 | |
| Loss on redemption | 97 | _ | |
| Total | 9,399 | 9,430 | |
| Net amount | 17,146 | 104,548 | |

44. GAINS (LOSSES) ON DISPOSAL OF FINANCIAL ASSETS MEASURED AT AMORTIZED COST

Gain(loss) on disposal of financial assets measured at amortized cost for the years ended December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|--|--------|--------|
| Gain on disposal of financial assets measured at amortized cost: | | |
| Securities measured at amortized cost: | | |
| Gain on disposal | 4 | 20 |
| Loans measured at amortized cost: | | |
| Gain on disposal | 72,961 | 80,715 |
| Subtotal | 72,965 | 80,735 |
| Loss on disposal of financial assets measured at amortized cost: | | |
| Loans measured at amortized cost: | | |
| Loss on disposal | 11,899 | 3,905 |
| Netamount | 61,066 | 76,830 |

45. GAINS (LOSSES) ON DERIVATIVE INSTRUMENTS USED FOR HEDGING

Gain (loss) on derivative instruments used for hedging purpose for the years ended December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|--|----------|---------|
| Gain on derivative instruments used for hedging pr | urposes: | |
| Hedgeditem: | | |
| Gain on valuation of hedged item: | | |
| Debentures | 320,975 | 99,966 |
| Deposits | 71,014 | 16,558 |
| Subtotal | 391,989 | 116,524 |
| Gain on disposal of hedged item: | | |
| Debentures | 732 | 4,012 |
| Deposits | - | 426 |
| Subtotal | 732 | 4,438 |
| Derivative instruments used for hedging purposes: | | |
| Gain on valuation of derivatives: | | |
| Currency related derivatives | 292 | 4,095 |
| Interest related derivatives | 30 | 18 |
| Subtotal | 322 | 4,113 |
| Gain on settlement of derivatives: | | |
| Currency related derivatives | 2,316 | 1,459 |
| Interest related derivatives | 2,581 | 8 |
| Subtotal | 4,897 | 1,467 |
| Total | 397,940 | 126,542 |
| Loss on derivative instruments used for hedging p | urposes: | |
| Hedgeditem: | | |
| Loss on valuation of hedged item: | | |
| Debentures | 4,365 | - |
| Subtotal | 4,365 | - |
| Loss on disposal of hedged item: | | |
| Debentures | _ | 887 |
| Subtotal | _ | 887 |

| Classification | 2022 | 2021 |
|---|----------|----------|
| Derivative instruments used for hedging purposes: | | |
| Loss on valuation of derivatives: | | |
| Currency related derivatives | 131,560 | 71,967 |
| Interest related derivatives | 325,172 | 99,231 |
| Subtotal | 456,732 | 171,198 |
| Loss on settlement of derivatives: | | |
| Currency related derivatives | 2,948 | 2,428 |
| Interest related derivatives | 1,614 | 3,764 |
| Subtotal | 4,562 | 6,192 |
| Total | 465,659 | 178,277 |
| Net amount | (67,719) | (51,735) |

46. IMPAIRMENT LOSSES OF FINANCIAL INSTRUMENTS

Impairment loss on financial instruments for the years ended December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|--|-----------|---------|
| Reversal of credit loss on debt securities measured at FVOCI | (361) | (64) |
| Provision for loan losses on debt securities measured at amortized cost | 66,946 | 10,286 |
| Provision of allowances for possible loan losses for loans | 1,102,210 | 525,462 |
| Provision (reversal) of allowances for possible loan losses for other assets | 18,003 | (2,466) |
| Total | 1,186,798 | 533,218 |

47. GENERAL AND ADMINISTRATIVE EXPENSES

General and administrative expenses for the years ended December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|---|-----------|-----------|
| Salaries | 2,238,908 | 2,268,294 |
| Provision for severance and retirement benefits | 181,449 | 194,745 |
| Provision for severance (defined contributions) | 3,943 | 6,726 |
| Provision for severance (defined benefits) | 177,506 | 188,019 |
| Termination benefits | 199,741 | 20,582 |
| Employee benefits | 138,571 | 115,882 |
| Rental expenses(*) | 63,387 | 66,822 |
| Entertainment expenses | 31,844 | 29,162 |
| Depreciation on property and equipment | 160,645 | 151,198 |
| Depreciation on investment property | 21,874 | 12,834 |
| Amortization | 166,185 | 168,648 |
| Depreciation for right-of-use assets | 221,113 | 215,000 |
| Taxes and dues | 182,136 | 145,956 |
| Advertising expenses | 252,193 | 156,634 |
| Servicing expenses | 232,893 | 221,574 |
| Supplies expense | 8,063 | 7,927 |
| Others | 333,947 | 275,202 |
| Total | 4,432,949 | 4,050,460 |

(*) It includes ₩2,310 million and ₩2,515 million of small lease expenses for the year ended December 31, 2022 and 2021.

48. OTHER OPERATING INCOME

Other operating income for the years ended December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|---|-----------|-----------|
| Reversal of provisions for payment guarantees | - | 1,720 |
| Reversal of allowances for unused commitments | - | 17,088 |
| Reversal of allowance for restoration cost | 1,768 | - |
| Reversal of allowances for mileage points | _ | 1 |
| Reversal of allowance for lawsuits | 18,141 | - |
| Reversal of other allowance | 827 | - |
| Trust commissions | 309,470 | 303,736 |
| Insuranceincome | 1,396,293 | 1,074,236 |

| Classification | 2022 | 2021 |
|----------------------------------|-----------|-----------|
| Non-controlling interest | 33,330 | 23,615 |
| Merchant banking accounts profit | 119,943 | 46,395 |
| Others | 222,105 | 120,406 |
| Total | 2,101,877 | 1,587,197 |

49. OTHER OPERATING EXPENSE

Other operating expenses for the years ended December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|--|-----------|-----------|
| Provision of provisions for payment guarantees | 44,927 | _ |
| Provision of allowances for unused commitments | 3,232 | _ |
| Provision of allowance for restoration cost | - | 683 |
| Provision of allowance for lawsuits | - | 5,544 |
| Provision of other allowance | 454 | 12,000 |
| Contribution to guarantee fund | 275,105 | 241,764 |
| Insurance fee on deposit | 467,417 | 455,795 |
| Contribution to housing credit guarantee fund | 148,136 | 131,243 |
| Insurance expense | 1,125,010 | 823,350 |
| Provision for policy reserves | 316,455 | 296,375 |
| Non-controlling liability adjustment loss | 15,351 | 68,960 |
| Merchant banking accounts expense | 89,351 | 20,853 |
| Others | 781,239 | 452,727 |
| Total | 3,266,677 | 2,509,294 |

50. INSURANCE INCOME AND INSURANCE EXPENSE

Details of insurance income and insurance expense for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

| C | Classification | 2022 | 2021 |
|-------------------|-------------------------------|-----------|-----------|
| | Premiumincome | 1,336,799 | 1,038,187 |
| | Reinsuranceincome | 24,602 | 17,786 |
| Insuranceincome | Other insurance income | 6,099 | 5,289 |
| | Special account income | 28,793 | 12,974 |
| | Subtotal | 1,396,293 | 1,074,236 |
| | Insurance expense | 414,631 | 344,154 |
| | Policyholder dividend expense | 2 | - |
| | Refund cost | 590,652 | 395,376 |
| | Reinsurance cost | 42,515 | 36,424 |
| 1 | Provision for policy reserve | 316,455 | 296,375 |
| Insurance expense | Business expense | 18,704 | 1,154 |
| | Depreciation on newcontract | 23,751 | 26,063 |
| | Discount fee | 5,611 | 7,205 |
| | Other insurance expense | 351 | _ |
| | Special account expense | 28,793 | 12,974 |
| | Subtotal | 1,441,465 | 1,119,725 |
| Total | | (45,172) | (45,489) |

51. OTHER NON-OPERATING INCOME

Other non-operating income for the years ended December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classification | 2021 | 2020 |
|--|---------|---------|
| Rental fee income | 33,968 | 14,675 |
| Gains of disposal of property, equipment and intangible assets | 8,197 | 38,936 |
| Gains of disposal of investment property | 8,078 | 43,174 |
| Gains on disposal of investment in associates | 94,509 | 145,705 |
| Reversal of impairment loss on investments in associates | 1 | 14,170 |
| Others | 117,031 | 301,688 |
| Total | 261,784 | 558,348 |

52. OTHER NON-OPERATING EXPENSES

Other non-operating expenses for the years ended December 31, 2022 and 2021, is as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|--|---------|---------|
| Disposal of property, equipment and intangible assets | 845 | 6,774 |
| Disposal of investment property | 1,049 | 4,608 |
| Disposal of investment in associates | 9,702 | 6,945 |
| Contribution | 70,086 | 85,029 |
| Impairment loss on property, equipment and intangible assets | 10,374 | 7,111 |
| Impairment loss on stock of related parties | 3,462 | 628 |
| Commissions received on collection of special bond | 7,197 | 7,781 |
| Others | 138,481 | 296,623 |
| Total | 241,196 | 415,499 |

53. INCOME TAXES

53–1 The major components of income tax expense for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|---|-----------|-----------|
| Tax burden | | |
| Current income taxes | 1,342,975 | 1,374,938 |
| Additional refund of prior year's income tax | (38,575) | (7,156) |
| Changes in deferred income taxes due to the tax effect of temporary differences | (327,811) | (113,157) |
| Current and deferred income taxes recognized directly to equity | 346,283 | 68,718 |
| Income tax expense | 1,322,872 | 1,323,343 |

53–2 Reconciliations of income tax expense applicable to income before income tax at the Korea statutory tax rate to income tax expense at the effective income tax rate of the Group for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|---|-----------|-----------|
| Income before income tax | 4,944,066 | 4,904,925 |
| Tax at domestic statutory income tax rate | 1,346,009 | 1,273,037 |
| Tax-exempt income | (28,805) | (240,910) |
| Expenses not deductible for tax purposes | 84,040 | 50,071 |
| Tax deduction | (28,674) | (30,120) |
| Deduction of tax loss carryforwards | (1,450) | _ |
| Income tax expense of foreign branches and subsidiaries | 60,708 | 47,663 |
| Tax effect of consolidated tax return | (89,822) | 818 |
| Additional refundof prior year's income tax | (35,075) | (7,156) |
| Effect of tax rates change | (16,704) | 147 |
| Non-recognition of deferred income tax assets and the effect of write-off | 33,316 | (456) |
| Others | (671) | 230,249 |
| Income tax expense | 1,322,872 | 1,323,343 |
| Effective income tax rate (%) | 26.8 | 27.0 |

53–3 Temporary differences and deferred income tax assets (liabilities) as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | Deductible (taxable) temporary differences | Deferredincome tax assets (liabilities) |
|--|---|---|
| Loss on valuation of securities | 545,746 | 144,125 |
| Impairment loss on securities | 77,235 | 20,390 |
| Securities measured at FVOCI | 1,361,559 | 359,329 |
| Gain on valuation of investments in subsidiaries or associates | (458,810) | (121,126) |
| Gain on valuation of derivatives | 444,726 | 117,408 |
| Deemeddividends | 282,048 | 74,461 |
| Deferredloan fees and expenses | (587,625) | (155,133) |
| Accruedincome | (435,265) | (114,915) |
| Accruedexpenses | 296,177 | 78,129 |
| Allowance for acceptance guarantees | 81,109 | 21,413 |
| Defined benefit obligation | 2,105,530 | 555,793 |

| Classification | Deductible (taxable) temporary differences | Deferredincome tax assets (liabilities) |
|--|--|---|
| Plan assets for severance benefit | (2,122,893) | (560,377) |
| Allowance for other losses | 512,647 | 135,339 |
| Baddebt expenses | 846,990 | 223,111 |
| Depreciation | 26,163 | 6,907 |
| Dormant deposits | 22,198 | 5,860 |
| Advanced depreciation provision | (180,315) | (47,603) |
| Deemed cost for property and equipment | (680,858) | (179,746) |
| Investment in kind | 18,479 | 4,878 |
| Financial acceptances and guarantees | 4,631 | 1,222 |
| Deferred point income | 201,261 | 53,133 |
| Fair value valuation resulting frommerger | 6,937 | 1,831 |
| Fair value differences due to the business combination | (73,644) | (16,808) |
| Others | 503,353 | 135,349 |
| Tax loss carryforwards | (1,612,624) | (427,178) |
| Total | 1,184,755 | 315,792 |
| Domestic deferred income tax assets | | 322,392 |
| Domestic deferred income tax liabilities | | (6,600) |
| Foreign deferred income tax assets(*) | | 113,020 |
| Foreign deferred income tax liabilities(*) | | (2,259) |
| Deferredincome tax assets | | 426,553 |

<December 31, 2021>

| Classification | Deductible (taxable) temporary differences | Deferredincome tax assets (liabilities) |
|--|---|---|
| Loss on valuation of securities | 238,329 | 65,459 |
| Impairment loss on securities | 75,291 | 19,454 |
| Securities measured at FVOCI | 498,990 | 137,002 |
| Gain on valuation of investments in subsidiaries | (551,583) | (151,685) |
| Gain on valuation of derivatives | (397,233) | (109,279) |
| Deemeddividends | 293,313 | 80,661 |
| Deferred loan fees and expenses | (578,482) | (159,082) |

| Classification | Deductible (taxable) temporary differences | Deferredincome tax assets (liabilities) |
|--|---|---|
| Accruedincome | (268,363) | (73,800) |
| Accruedexpenses | 276,610 | 74,047 |
| Allowance for acceptance guarantees | 31,300 | 8,608 |
| Defined benefit obligation | 2,237,548 | 610,680 |
| Plan assets for severance benefit | (2,045,076) | (558,262) |
| Allowance for other losses | 529,178 | 144,659 |
| Baddebt expenses | 745,180 | 204,009 |
| Depreciation | 17,208 | 4,709 |
| Dormant deposits | 25,284 | 6,953 |
| Advanced depreciation provision | (180,315) | (49,587) |
| Deemed cost for property and equipment | (687,439) | (189,046) |
| Investment in kind | 18,479 | 5,082 |
| Financial acceptances and guarantees | 4,127 | 1,135 |
| Deferredpoint income | 210,192 | 50,869 |
| Fair value valuation resulting frommerger | 9,281 | 2,552 |
| Fair value differences due to the business combination | (78,693) | (18,384) |
| Others | 323,392 | 86,481 |
| Tax loss carryforwards | 76,869 | 17,095 |
| Total | 823,387 | 210,330 |
| Domestic deferred income tax assets | | 268,241 |
| Domestic deferred income tax liabilities | | (57,911) |
| Foreign deferred income tax assets(*) | | 39,313 |
| Foreign deferred income tax liabilities(*) | | (150,901) |
| Deferredincometax assets | | 98,742 |

^(*) Deferred income tax assets of foreign branches are not offset against the deferred income tax liabilities due to differences in tax jurisdictions.

The effective income tax rate of 26.4% is applied as of December 31, 2022 when calculating deferred income tax assets or liabilities that will be realized. Also, deferred income tax assets are recognized when it is foreseeable that future taxable income will be incurred and that future tax credits will be realized

53–4 The unrealizable temporary differences as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|----------------------------------|-------------------|-------------------|
| Deductible temporary differences | 1,545,389 | 1,519,929 |
| Taxable temporary differences | (4,304,801) | (4,317,952) |
| Total | (2,759,412) | (2,798,023) |

53–5 Details of deferred income taxes charged (credited) directly to equity as of December 31, 2022 and 2021, are as follows (Korean won in millions):

<December 31, 2022>

| Classification | Before-tax amounts | Deferredincome tax assets (liabilities) |
|---|--------------------|---|
| (Loss) gain on valuation of financial assets measured at FVOCI | (1,848,869) | 485,971 |
| Changes invaluation of equity method investments | 113,458 | (30,186) |
| (Loss) gain on fair value hedge | (34,460) | 9,477 |
| Profit or loss on hedge valuation of net investment in overseas operations | (68,721) | 18,898 |
| (Loss) gain on valuation of cash flow hedges | (5,468) | 1,444 |
| Changes in credit risk of financial liabilities designated as measured at FVTPL | (75,492) | 19,930 |
| Exchange differences on translation of foreign operations | (46,220) | (9,866) |
| Remeasurements of the net defined benefit (asset) liability | (676,237) | 175,464 |
| Others | (1,184) | 287 |
| Total | (2,643,193) | 671,419 |

<December 31, 2021>

| Classification | Before-tax amounts | Deferredincome tax assets (liabilities) |
|---|--------------------|---|
| (Loss) gain on valuation of financial assets measured at FVOCI | 57,156 | (15,526) |
| Changes in valuation of equity method investments | 86,280 | (24,039) |
| Loss on fair value hedge | _ | (1) |
| Gain (loss) on valuation of cash flow hedges | (2,175) | 526 |
| Changes in credit risk of financial liabilities designated as measured at FVTPL | 14,284 | (3,928) |
| Exchange differences on translation of foreign operations | (9,488) | 2,609 |
| Revaluation surplus | 3,502 | (963) |
| Remeasurements of the net defined benefit liability (asset) | (22,413) | 5,380 |
| Others | (462) | 90 |
| Total | 126,684 | (35,852) |

54. DIVIDENDS

54–1 Details of the Group's dividend including interim dividend for the years ended December 31, 2022 and 2021, are as follows (Korean won):

<2022>

| Type of dividend | Number of shares | Dividend per share | Share ratio (%) | Dividends (Koreawoninmillions) |
|-------------------------|------------------|-----------------------|-----------------|-----------------------------------|
| Cash dividend (interim) | 291,563,476 | 800 | 16.0 | 233,251 |
| Cash dividend (annual) | 291,563,476 | 2,550 | 51.0 | 743,487 |
| Total | | | | 976,738 |

<2021>

| Type of dividend | Number of shares | Dividendper share | Share ratio (%) | Dividends (Koreawoninmillions) |
|-------------------------|------------------|----------------------|-----------------|-----------------------------------|
| Cash dividend (interim) | 291,563,476 | 700 | 14.0 | 204,094 |
| Cash dividend (annual) | 291,563,476 | 2,400 | 48.0 | 699,752 |
| Total | | | | 903,846 |

54–2 Details of the Group's dividend pay–out ration and dividend yield (including interim dividends) for the years ended December 31, 2022 and 2021, are as follows(%):

| Classification | Formula | 2022 | 2021 |
|-----------------------|---|------|------|
| Dividendpay-out ratio | Cash dividend amount/Net income | 27.5 | 25.6 |
| Dividendyield | Cash dividend per share/stock prices (closing price of the settlement date) | 8.0 | 7.4 |

54–3 Details of dividends on hybrid equity securities for the years ended December 31, 2022 and 2021, are summarized as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|---|-----------|-----------|
| Average balance of hybrid equity securities | 3,109,164 | 2,278,370 |
| Weighted-average interest rate | 3.68% | 3.60% |
| Total dividends | 111,211 | 80,083 |

55. EARNING PER SHARE

55–1 Weighted–average numbers of common shares for the years ended December 31, 2022 and 2021, are calculated as follows (shares in units):

| Classification | 2022 | 2021 |
|--|-------------|-------------|
| Beginning | 291,563,476 | 291,563,476 |
| Weighted-average number of shares of common stocks outstanding | 291,563,476 | 291,563,476 |

55–2 The Group's basic earnings per share for the years ended December 31, 2022 and 2021, are calculated as follows (Korean won in millions and per share amounts in units):

| Classification | 2022 | 2021 |
|--|-------------|-------------|
| Net income attributable to equity holders of the parent | 3,552,391 | 3,526,068 |
| Dividends on hybrid equity securities | (111,210) | (80,083) |
| Net income attributable to common stock | 3,441,181 | 3,445,985 |
| Weighted-average number of shares of common stocks outstanding | 291,563,476 | 291,563,476 |
| Basic earnings per share (Korean won in units) | 11,803 | 11,819 |

55–3 Weighted-average numbers of common shares adjusted for the effect of dilution for the years ended December 31, 2022 and 2021, are calculated as follows (shares in units):

| Classification | 2022 | 2021 |
|--|-------------|-------------|
| Beginning | 291,563,476 | 291,563,476 |
| Weighted-average number of common shares (diluted) | 291,563,476 | 291,563,476 |

55–4 The Group's diluted earnings per share for the years ended December 31, 2022 and 2021, are computed as follows (Korean won in millions and number of shares in units):

| Classification | 2022 | 2021 |
|--|-------------|-------------|
| Net income attributable to common stock holders | 3,441,181 | 3,445,985 |
| Weighted-average number of shares of common stocks outstanding (diluted) | 291,563,476 | 291,563,476 |
| Diluted earnings per share (Korean won in units) | 11,803 | 11,819 |

56. SHARE-BASED PAYMENT TRANSACTIONS

The Group has granted employees and directors of HFG and its subsidiaries the share options, which may be settled by the issuance of additional shares or by cash payment equal to the difference between the market value and exercise price.

Finnq Co., Ltd., a subsidiary of the Group, has granted the rights and performance-based stock grants to its employees and directors according to the share-based compensation agreements. The compensation costs are measured by reference to the fair value of equity instruments granted.

GLN International Co., Ltd., a subsidiary of the Group, has granted stock option to its employees and directors. The compensation costs are measured by reference to the fair value of equity instruments granted.

56-1 Performance-based stock grants

56-1-1 Details of performance-based stock grants as of December 31, 2022 are summarized as follows (number of shares in units):

| Classification | Grant date | Settlement method | Vesting period (specified service period) | Payment date | Estimated vested shares as of December 31, 2022 |
|--------------------|------------|----------------------|--|-----------------|---|
| Grant in 2018(*1) | 2018. 1. 1 | Cash settlement | 2018. 1. 1 – 2020. 12. 31 | 2020. 12. 31 | 12,128 |
| Grant in 2019(*1) | 2019. 1. 1 | Cash settlement | 2019. 1. 1 – 2021. 12. 31 | 2021. 12. 31 | 558,815 |
| Grant in 2020(*1) | 2020. 1. 1 | Cash settlement | 2020. 1. 1 – 2022. 12. 31 | 2022. 12. 31 | 513,834 |
| Grant in 2021 (*1) | 2021. 1. 1 | Cash settlement | 2021. 1. 1 – 2023. 12. 31 | 2023. 12. 31 | 342,162 |
| Grant in 2022(*1) | 2022. 1. 1 | Cash settlement | 2022. 1. 1 – 2024. 12. 31 | 2024. 12. 31 | 101,784 |

(*1) The maximum number of shares to be compensated is predetermined before the grant date, and vested shares are determined by performance measures.

Performance is evaluated as 40% of group performance (relative shareholder return), 55% of group performance (subsidiary ROE and net profit target achievement rate) and 5% of soundness evaluation. The stocks granted in 2021 and 2022 are based on the Company performance assessment (relative shareholder return) constituting 40%, the business unit performance assessment (based on the company's ROE and the rate of goal net income achieved) constituting 50%, soundness evaluation constituting 5% and mid-and long-term strategic tasks 5%.

(*2) As the payment stock price in four years after the grant date (The arithmetic average of the weighted-average stock prices for the past two months, the past one month, and the past one week from the day before the payment date) will be paid in cash based on the performance-based stock grant agreements, the fair value of the base price to be paid in the future is measured at the closing price at the reporting period.

The Group uses the cash settlement method in connection with the performance- based stock grant liabilities based on past practice, and the compensation costs are recognized by measuring the fair value of liabilities at the end of the reporting period. The performance-based stock grant liabilities in accounts payable are in the amount of $\pm 66,833$ million and $\pm 57,088$ million as of December 31, 2022 and 2021, respectively.

56-1-2 Details of performance-based stock grants by Finnq Co., Ltd. as of December 31, 2022, are summarized as follows (number of shares in units):

| Classification | Grant date | Settlement method | Vestingperiod (specifiedservice period) | Payment date | Estimated vested shares as of December 31, 2022 |
|----------------|------------|----------------------|---|-----------------|---|
| 3rd grant(*1) | 2020.01.01 | Cash settlement | 2020.01.01-2022.12.31 | 2022.12.31 | 6,155 |
| 4th grant(*1) | 2021.01.01 | Cash settlement | 2021.01.01-2023.12.31 | 2023.12.31 | 5,654 |

- (*1) The maximum number of shares to be compensated is predetermined before the grant date, and vested shares are determined by performance measures.
- (*2) As cash will be paid based on the stock price evaluated by an objective third party designated by Finnq Co., Ltd. according to the performance-based stock grant agreements, the price per share of performance-based stock grants is measured at the fair value calculated using the net asset approach by the external valuation firm.



The compensation costs are recognized by measuring the fair value of liabilities at the end of the reporting period. The performance-based stock grant liabilities in accounts payable are in the amount of \text{\psi}46 million as of December 31, 2022.

56–1–3 Compensation costs for a performance–based stock grant for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<2022>

(Korean won in millions)

| Classification | HFG | Subsidiary | FinnqCo., Ltd. | Total |
|-------------------|-------|------------|----------------|--------|
| Compensation cost | 5,164 | 16,847 | (35) | 21,976 |

<2021>

(Korean won in millions)

| Classification | HFG | Subsidiary | Total | |
|-------------------|-------|------------|--------|--|
| Compensation cost | 5,130 | 23,582 | 28,712 | |

56–2 Stock option

56-2-1 GLN International Co., Ltd.

GLN International Co., Ltd., a subsidiary of Hana bank, has granted the stock option with new share issuance to its executives and employees. The stock option vests when the executives and employees have served for at least two years from the grant date, and the exercise period is within five years from the date on which three years from the grant date have elapsed. Details of stock option grants as of December 31, 2022, are summarized as follows:

| Classification | Details |
|--|---|
| Grantedby | GLNInternational Co., Ltd. |
| Grant shares | GLNInternational Co., Ltd.'s common stock. |
| Grant type | Issuance of newshares |
| Grant date | November 4, 2021 |
| Number of shares granted | 400,000 shares |
| Exercisable period | November 4, 2024 - November 3, 2029 |
| Price per shares (Koreanwoninunits) | 500 |
| Evaluation model | LSMC(Least-Squares Monte Carlo) simulation. |
| Risk-free interest rate | Interest rate on government bonds |
| Stock price volatility | 15.48% |

| Classification | Details |
|--|--|
| Interest rate volatility | Volatility by periodapplied to the Hull and White interest rate model. |
| Fairvalue per share (Korean won in units) (*) | 109.03 |

(*) The fair value per share is the fair value at the time the stock option is granted.

The compensation costs related to the stock option for the year ended December 31, 2022, are \forall 15 million and there is no stock option available for exercise as of December 31, 2022.

56-2-2 Finnq Co., Ltd.

Finnq Co., Ltd., a subsidiary of the Company, has granted the stock option to its executives and employees. Details of stock option grants as of December 31, 2022, are summarized as follows:

| Classification | 3rdgrant | 4th grant |
|---|--|--|
| Grantedby | FinnqCo., Ltd | FinnqCo., Ltd |
| Grantshares | FinnqCo., Ltd's common stock. | FinnqCo., Ltd's common stock. |
| Grant type | Able to choose issuance of newshares, receipt of treasury stock or cash-settled share appreciation right | Able to choose issuance of newshares, receipt of treasury stock or cash-settled share appreciation right |
| Grant date | July 28, 2021 | January 1, 2022 |
| Number of shares granted | 203,500 shares | 45,000 shares |
| Estimated number of shares vested as of December 31, 2022 | 109,000 shares | 24,000 shares |
| Vesting period (specified service period) | August 12, 2021 – July 31, 2024 | January 1, 2022 - March 31, 2025 |
| Exercisable period | August 1, 2024-November 30, 2024 | April 1, 2025 – July 31, 2025 |
| Payment date | July 31, 2024 | March 31, 2025 |
| Exercise price per shares (Korean won in units) | 5,000 | 5,000 |
| Evaluation model | Black-Scholes model | Black-Scholes model |

(*1) The maximum number of shares to be compensated is predetermined before the grant date, and vested shares are determined by performance measures.

The compensation costs related to the stock option for the year ended December 31, 2022, are not accurred and there is no stock option available for exercise as of December 31, 2022.



57. CASH FLOW STATEMENTS

57–1 Cash and cash equivalents on hand as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 |
|---|----------------------|----------------------|
| Cash | 1,904,911 | 2,031,147 |
| Due from banks in Korean won | 19,582,064 | 15,926,712 |
| Due from banks in foreign currencies | 24,269,134 | 13,448,737 |
| Subtotal | 45,756,109 | 31,406,596 |
| Restricted balances (*) | 4,605,275 | 3,580,304 |
| Due from banks with original maturities exceeding three months from the date of acquisition | 1,395,611 | 889,823 |
| Adjustments | 6,000,886 | 4,470,127 |
| Cash and cash equivalents | 39,755,223 | 26,936,469 |

^(*) Reserve requirement deposits, etc., that meet the definition of cash and cash equivalent are excluded from the restricted balances.

57–2 Significant non–cash transactions for the years ended December 31, 2022 and 2021 are as follows (Korean won in millions):

| Description | 2022 | 2021 |
|--|-------------|-----------|
| Gain on valuation of financial assets measured at FVOCI, net | (1,280,775) | (584,154) |
| Debt-to-equity swap | 40,370 | 1 |
| Replacement from loan, etc., to non-current assets held for sale | 7,371 | 10,489 |
| Replacement from current assets to investment properties | (214,066) | 97,636 |
| Replacement fromproperties to prepaid assets | 12,789 | 16,442 |
| Changes in right-of-use assets | 145,700 | 20,763 |
| Changes in lease liability | 347,678 | 205,493 |
| Changes in exchange differences on translation of foreign | | |
| operations | 316 | 300,302 |

57–3 Changes in liabilities arising from financing activities for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions):

<2022>

| Classification | January 1, 2022 | Cash flows | Foreign exchange movement | Changes in Other | | December31, 2022 |
|-----------------|--------------------|------------|---------------------------|------------------|-----------|---------------------|
| Borrowings | 30,261,598 | 6,082,331 | 743,383 | _ | _ | 37,087,312 |
| Debentures | 54,476,161 | 1,322,091 | 257,968 | (271,934) | 889,546 | 56,673,832 |
| Lease liability | 397,394 | (222,973) | _ | - | 347,134 | 521,555 |
| Total | 85,135,153 | 7,181,449 | 1,001,351 | (271,934) | 1,236,680 | 94,282,699 |

<2021>

| Classification | January 1, 2021 | Cash flows | Foreign exchange movement | Oti Oti | | Other | | December31, 2021 |
|-----------------|--------------------|------------|---------------------------|----------|-----------|------------|--|---------------------|
| Borrowings | 26,494,316 | 2,827,521 | 939,761 | - | _ | 30,261,598 | | |
| Debentures | 48,761,838 | 4,015,613 | 392,646 | (24,207) | 1,330,271 | 54,476,161 | | |
| Lease liability | 416,477 | (224,509) | _ | - | 205,426 | 397,394 | | |
| Total | 75,672,631 | 6,618,625 | 1,332,407 | (24,207) | 1,535,697 | 85,135,153 | | |

58. RELATED PARTY TRANSACTIONS

The Group defines related parties to include the associates, a member of the key management personnel and a close member of the key management personnel 's family and a post-employment benefit plan for the benefit of employees of either the Group or an entity related to the Group. The Group discloses the profit and loss, outstanding balances with related parties arising from the below significant transactions. Details of the investments in associates and joint ventures are disclosed in Note 18.

58–1 Details of significant transactions with related parties for the years ended December 31, 2022 and 2021, are summarized as follows (Korean won in millions):

<2022>

| Relatedparty | | | Income | | | Expenses | | | |
|---|---------------|--------------------|---------------------------|-----------------|--|----------------------|-----------------------------|----------------|--|
| | Туре | Interest income | Fee and commission income | Other income | (reversals) of credit loss allowance on loans | Interest expenses | Fee and commission expenses | Other expenses | |
| BankofJilin | Associate | 100 | 3 | - | - | - | - | 5 | |
| CMInternational Financing Leases | Associate | 2,407 | - | - | 16,015 | - | - | _ | |
| BeijingLangaAssetManagementCo., Ltd. | Associate | 67 | 1 | 1 | (22) | 8 | - | _ | |
| PT. SINARMAS Hana Finance | Joint venture | 2,398 | 274 | 259 | 76 | - | - | _ | |
| Korea Credit Bureau | Associate | 978 | 38 | - | 17 | 108 | 4,498 | 1 | |
| KEBHana-KVICUnicom Fundof Funds | Associate | - | - | - | - | 78 | - | - | |
| Templeton Hana Asset Management Co., Ltd. | Associate | - | 1 | 2 | - | 213 | _ | _ | |

| | | Income | | | Provisions | | Expenses | |
|---|-----------|--------------------|---------------------------|-----------------|--|----------------------|-----------------------------|-------------------|
| Related party | Туре | Interest income | Fee and commission income | Other income | (reversals) of credit loss allowance on loans | Interest expenses | Fee and commission expenses | Other expenses |
| BIDV | Associate | 780 | - | _ | (15) | 1,284 | 1 | |
| All Together Korea Fund5 | Associate | _ | - | 62 | - | _ | - | - |
| Toss Bank Co., Ltd. | Associate | 10,541 | 20,649 | 1 | 1 | 2 | 1 | |
| Shinjin International Corporation | Associate | 4 | - | - | _ | _ | - | |
| Sinsa Station Complex Development PFV Co., Ltd. | Associate | 2,681 | 218 | - | 9,174 | - | - | _ |
| Cheongna Medipolis PFV Co., Ltd. | Associate | _ | 300 | _ | - | 53 | - | _ |
| Mirae Credit Information Services Corp. | Associate | 242 | 10 | 32 | 9 | 42 | 10,395 | - |
| Lakebridge The Growth Capital PEF1 | Associate | _ | - | _ | - | 1 | - | _ |
| Hana-Capstone Al Platform Fund | Associate | _ | _ | _ | _ | 54 | _ | |
| KORAMCO THE ONE REIT (formerly known as KOCREF REIT 30) | Associate | 608 | 975 | - | (139) | 605 | - | 16,951 |
| GMHB Co., Ltd. | Associate | 1,494 | _ | 29 | (336) | 1 | _ | _ |
| Lotte Ventures Corp. (formerly known as Lotte Accelerator Corporation) | Associate | - | - | 1 | - | - | - | _ |
| Hana Power Infra 1st Private Equity Fund | Associate | 588 | 2,432 | - | (69) | 20 | - | - |
| Hana UBS Asset Management | Associate | _ | 2,283 | 9 | _ | 353 | - | - |
| 2018 Hana-Magna Startup Fund | Associate | _ | 341 | _ | - | _ | - | _ |
| Dangsandong PFV Co., Ltd. | Associate | - | 99 | - | _ | _ | - | |
| World HansSang Dream Island | Associate | 68 | 405 | _ | (18) | _ | - | - |
| Dream Island Leisure | Associate | - | 300 | - | - | - | - | _ |
| Daegu MBC Development PFV Co. Ltd. | Associate | 7,306 | 367 | | 210 | _ | _ | _ |
| YH Leisure Development Co., Ltd. | Associate | 3,917 | 57 | - | (160) | 29 | - | _ |
| Changjo Innovation CO., Ltd. | Associate | _ | 1,122 | | - | _ | _ | _ |
| Dowon Asset Development Co., Ltd. | Associate | 63 | 2 | - | (55) | - | - | _ |
| HORIZON PRIVATE EQUITY FUND | Associate | - | 2,623 | - | - | - | - | _ |
| Hana Must Seven Special Purpose Acquisition Company | Associate | - | - | - | - | 1 | - | _ |
| Hana Financial Sixteenth Special Purpose Acquisition Company | Associate | - | - | - | _ | 1 | - | _ |
| Hana Ever Best Corporation Financial Stability Private Investment Co., Ltd. | Associate | - | 776 | - | _ | - | - | = |
| Hana Bio New Technology Fund No. 2 | Associate | _ | 39 | _ | - | - | - | _ |
| Hana Bio New Technology Fund No. 3 | Associate | _ | 27 | _ | - | _ | - | _ |
| Forest of Suseong | Associate | _ | 4 | _ | - | - | - | _ |
| Hana Financial Nineteenth Special Purpose Acquisition Company | Associate | - | - | - | _ | 29 | - | _ |
| Hana Bio New Technology Fund No. 1-1 | Associate | _ | 39 | _ | - | _ | _ | _ |
| Smart Hana-K& Green New Deal No. 1 Fund | Associate | _ | 303 | | | | _ | |
| Hana Smart Logistics New Technology Fund | Associate | _ | 105 | - | _ | - | _ | _ |
| People Korea Two | Associate | 1,495 | 249 | | 22,097 | | | |
| Hana Financial Twentieth Special Purpose Acquisition Company | Associate | _ | _ | _ | _ | 1 | - | _ |
| New Deal Extension New Technology Fund No. 1 | Associate | - | 550 | _ | _ | | - | _ |
| GFI ESG the 1st Private Equity Fund | Associate | _ | 139 | | _ | | _ | _ |
| Imgok Rental Housing CO., Ltd. | Associate | 1,071 | 1,155 | - | 39 | 1 | 77 | _ |
| DaeyoungNetworksCo.,Ltd. | Associate | - | 36 | - | - | - | - | - |
| Haba Finacial Twenty-first Special Purpose Acquisition Company | Associate | _ | 180 | _ | _ | 17 | _ | _ |

| | | | Income | | Provisions Expenses | | | |
|---|---------------|--------------------|--------------------------|--------------|--|----------------------|-----------------------------|----------------|
| Relatedparty | Туре | Interest income | Feeand commission income | Other income | (reversals) of credit loss allowance on loans | Interest expenses | Fee and commission expenses | Other expenses |
| Hana X Bio New Technology Fund | Associate | - | 758 | I | - | 1 | - | - |
| The HahmGreen Energy Fund | Associate | - | _ | l | _ | 25 | ı | |
| Choice & Soyeon Construction Co., Ltd. | Associate | 1,055 | 8,250 | - | 100 | - | - | - |
| Daeyoung DLMPFVCo., Ltd | Associate | _ | 827 | - | - | - | _ | - |
| Hana Financial Twenty-second Special Purpose Acquisition Company | Associate | - | 150 | _ | _ | 13 | - | - |
| Hana Financial Twenty-third Special Purpose Acquisition Company | Associate | - | 150 | _ | - | 12 | - | - |
| Hana Financial Twenty-fourth Special Purpose Acquisition Company | Associate | - | 210 | - | _ | 19 | - | - |
| Hana Financial Twenty-fifth Special Purpose Acquisition Company | Associate | - | 400 | - | _ | 44 | ı | |
| Eugene Asia Food Tech Fund-1 | Associate | - | | 37 | _ | - | _ | - |
| K&FashionNo. 1 Fund | Associate | _ | 9 | _ | _ | _ | _ | - |
| Hana-Magna Growth Booster Fund | Associate | _ | 696 | _ | _ | _ | _ | _ |
| Hana Qualified Investor Private Real Estate Investment Trust No. 41-2 | Associate | - | 4 | _ | - | - | - | - |
| Hana Alternative Special Investment Private Trust No. 161 | Associate | - | 76 | - | _ | - | - | - |
| Hana Alternative Investment Real Estate Private Trust No. 189 | Associate | - | 12 | - | _ | - | - | - |
| Hana Alternative Investment Blind General Private Real Estate Investment Trust No. 172 | Associate | - | 35 | - | _ | - | - | - |
| HyojePFVCO., LTD | Associate | _ | 240 | - | - | - | _ | - |
| F&UCredit Information | Associate | _ | 995 | - | - | 11 | 12,137 | 23 |
| Hana Ventures No. 1 Investment Fund | Associate | _ | 33 | _ | - | - | - | - |
| Hana Digital Transformation Fund | Associate | _ | 1,634 | - | - | - | - | _ |
| Hana Ventures No. 5 Investment Fund | Associate | - | 90 | - | - | 6 | - | - |
| Hana Innovation Venture Scale-up Fund | Associate | - | 1,302 | - | - | 76 | - | - |
| Digital Innovation Growth Fund | Associate | - | 369 | - | - | - | - | _ |
| Gyeonggi Hana Turnaround Fund No. 2 | Associate | - | 903 | 16 | - | 94 | - | - |
| Hana Untact Digital Innovation Fund | Associate | - | 1,089 | 21 | - | 69 | - | - |
| Hana K-NewDeal Unicom Fund | Associate | - | 1,918 | - | - | - | - | - |
| Inhee(*) | Associate | - | 1 | - | - | - | - | - |
| Finnq(*) | Joint venture | - | 51 | 30 | (12) | 7 | 1,185 | 70 |
| Smartscore Co., Ltd. (*) | Associate | _ | _ | 5 | _ | _ | _ | _ |
| Hana Financial Seventeen Special Purpose Acquisition Company (*) | Associate | - | 332 | _ | _ | 40 | - | - |
| Hana-History No1 Investment Fund(*) | Associate | - | (51) | _ | - | 3 | - | - |
| HanaBioNewTechnologyFundNo.1(*) | Associate | - | 21 | _ | - | - | - | - |
| Striker Morgarten I Private Equity Fund(*) | Associate | - | 2,000 | _ | - | - | - | - |
| Genesis Environment No. 5Private Equity Fund(*) | Associate | - | 840 | - | _ | - | - | - |
| Hana Financial Fourteenth Special Purpose Acquisition Company(*) | Associate | - | _ | - | _ | 1 | - | - |
| Hana Financial Fifteenth Special Purpose Acquisition Company(*) | Associate | - | 420 | _ | - | 1 | - | - |
| Key management personnel | | 304 | - | 81 | 9 | 189 | - | - |
| Total | | 38,167 | 59,866 | 586 | 46,921 | 3,511 | 28,294 | 17,059 |

^(*) Excluded from the related party for the year ended December 31, 2022

<2021>

| | | | Income | | Provisions | Expenses | | |
|---|--------------|--------------------|---------------------------|--------------|---|----------------------|------------------------------------|----------------|
| Relatedparty | Туре | Interest income | Fee and commission income | Other income | (reversals) of allowance for possible loan losses | Interest expenses | Fee and com mission expenses | Other expenses |
| BankofJilin | Associate | 62 | 3 | 1 | - | _ | _ | 2 |
| CMInternational Financing Leases | Associate | 2,282 | - | | 7,590 | | _ | |
| Beijing Langa Asset Management Co., Ltd. | Associate | 629 | 537 | 20 | (50) | 8 | - | |
| PT. SINARMAS Hana Finance | Jointventure | 1,427 | 64 | 220 | 89 | - | - | |
| Company KStartup Winwinfund | Associate | | - | | _ | 1 | - | |
| Korea Credit Bureau | Associate | | 48 | | - | 13 | 4,081 | |
| KEB Hana-KVICUnicorn Fundof Funds | Associate | | - | | - | 27 | _ | |
| Templeton Hana Asset Management Co., Ltd. | Associate | | 3,092 | 5 | | 127 | - | |
| BIDV | Associate | 307 | - | | (105) | 500 | - | _ |
| Toss BankCo., Ltd. | Associate | 12 | 2,049 | _ | - | 330 | _ | _ |
| Shinjin International Corporation | Associate | - | - | _ | 92 | - | - | - |
| Inhee | Associate | - | 2 | _ | - | - | - | - |
| Sinsa Station Complex Development PFVCo., Ltd. | Associate | 497 | 1,041 | _ | 713 | - | _ | _ |
| FinnqCo., Ltd. | Jointventure | _ | 437 | 80 | 7 | 19 | 1,094 | 140 |
| Mirae Credit Information Services Corp. | Associate | 18 | 10 | 19 | (1) | 18 | 9,979 | _ |
| Hana-Capstone Al Platform Fund | Associate | _ | - | _ | - | 8 | - | _ |
| KORAMCOTHEONEREIT (formerly known as KOCREFREIT 30) | Associate | 2,141 | - | - | (20) | 727 | - | 17,215 |
| Gunsan BIO Energy Co., Ltd. | Associate | - | - | - | - | 1 | - | - |
| GMHBCo., Ltd. | Associate | 2,583 | - | 30 | (158) | 1 | - | - |
| Lotte Ventures Corp. (previously, Lotte Accelerat or Corporation) | Associate | _ | - | 1 | _ | 6 | _ | _ |
| Hana Power Infra 1st Private Equity Fund | Associate | 528 | 2,432 | - | (104) | 17 | - | - |
| Hana UBS Asset Management | Associate | - | 2,967 | 15 | - | 148 | - | - |
| Smartscore Co., Ltd. | Associate | 70 | 13 | 19 | - | - | - | - |
| 2018 Hana-Magna Startup Fund | Associate | - | 388 | - | - | - | - | - |
| DangsandongPFVCo., Ltd. | Associate | - | 95 | - | - | - | - | - |
| WorldHansSang DreamIsland | Associate | 181 | 403 | - | 6 | - | - | - |
| DreamIslandLeisure | Associate | - | 300 | _ | - | - | - | - |
| DaeguMBCDevelopment PFVCo. Ltd. | Associate | 940 | 20,118 | - | 1,124 | - | - | - |
| YHLeisure Development Co., Ltd. | Associate | 3,994 | 55 | - | (31) | 3 | _ | - |
| Changjo Innovation CO., Ltd. | Associate | 959 | 2,676 | - | _ | - | _ | - |
| Hana Bio NewTechnology FundNo. 1 | Associate | - | 21 | - | _ | - | _ | - |
| DowonAssetDevelopmentCo., Ltd. | Associate | 353 | 734 | - | 4 | 1 | _ | _ |
| HORIZONPRIVATE EQUITY FUND | Associate | - | 2,640 | - | _ | - | _ | - |
| Hana Must Seven Special Purpose Acquisition Company | Associate | - | 150 | - | _ | 1 | _ | - |
| Hana Financial Fourteen Special Purpose Acquis ition Company | Associate | - | - | - | - | 1 | - | - |
| Hana Financial Fifteenth Special Purpose Acquisition Company | Associate | - | - | _ | - | 2 | - | - |
| Hana Financial Sixteenth Special Purpose Acqui sition Company | Associate | - | - | _ | - | 1 | - | - |
| Hana Financial Seventeen Special Purpose Acquisition Company | Associate | - | 180 | 821 | - | 3 | - | - |

| | | | Income | | Provisions Expenses | | | | | |
|---|-----------|-----------------|---------------------------|-----------------|---|----------------------|------------------------------------|----------------|--|--|
| Relatedparty | Туре | Interest income | Fee and commission income | Other income | (reversals) of allowance for possible loan losses | Interest expenses | Fee and com mission expenses | Other expenses | | |
| Hana Ever Best Corporation Financial Stability Pr ivate Investment Co., Ltd. | Associate | - | 462 | - | - | _ | - | - | | |
| HanaBioNewTechnologyFundNo.2 | Associate | - | 27 | - | - | _ | - | - | | |
| HanaBioNewTechnologyFundNo.3 | Associate | - | 19 | _ | - | _ | - | _ | | |
| Forest of Suseong | Associate | 604 | 1,485 | - | - | - | - | - | | |
| Hana Financial Nineteenth Special Purpose Acqu isition Company | Associate | - | 165 | - | - | 9 | _ | - | | |
| HanaBioNewTechnologyFundNo.1-1 | Associate | - | 15 | - | - | _ | - | _ | | |
| Smart Hana-K&GreenNewDeal No. 1 Fund | Associate | _ | 40 | | _ | _ | _ | | | |
| Hana Smart Logistics New Technology Fund | Associate | _ | 36 | _ | _ | _ | _ | _ | | |
| People Korea Two | Associate | 457 | 7,681 | _ | 182 | 1 | _ | _ | | |
| Hana Financial Twentieth Special Purpose Acqui sition Company | Associate | - | 150 | _ | - | _ | - | _ | | |
| NewDeal Extension NewTechnology Fund No. 1 | Associate | - | 172 | _ | - | - | - | - | | |
| ImgokRental HousingCO., Ltd. | Associate | 539 | 299 | _ | 39 | _ | - | _ | | |
| Daeyoung Networks Co., Ltd. | Associate | - | 4,410 | - | - | _ | - | - | | |
| Hana-Magna Growth Booster Fund | Associate | - | 122 | - | - | - | - | - | | |
| Odin2LLC | Associate | 14,648 | - | - | - | - | - | - | | |
| Hana Qualified Investor Private Real Estate Inve stment Trust No. 41-2 | Associate | - | 7 | - | - | - | - | - | | |
| Hana Alternative Special Investment Private Trust No. 161 | Associate | - | 1,039 | - | - | - | - | - | | |
| A&DCreditInformationCo.,Ltd. | Associate | - | - | - | - | _ | 4 | - | | |
| Hyoje PFVCO., LTD | Associate | - | 240 | - | - | _ | - | _ | | |
| F&UCredit Information | Associate | - | 708 | - | - | 4 | 13,158 | 85 | | |
| Hana Ventures No. 1 Investment Fund | Associate | _ | 33 | _ | - | _ | - | _ | | |
| Hana Digital Transformation Fund | Associate | - | 1,842 | - | - | - | - | - | | |
| Hana Ventures No. 5 Investment Fund | Associate | - | 90 | - | - | 1 | - | - | | |
| Hana Innovation Venture Scale-up Fund | Associate | - | 1,365 | - | - | 12 | - | _ | | |
| Digital Innovation Growth Fund | Associate | _ | 141 | | _ | _ | _ | _ | | |
| Hana-History No1 Investment Fund | Associate | _ | 51 | _ | _ | _ | _ | | | |
| Gyeonggi Hana Turnaround Fund No. 2 | Associate | _ | 264 | _ | _ | _ | _ | _ | | |
| Hana Untact Digital Innovation Fund | Associate | _ | 289 | | _ | _ | _ | _ | | |
| Hana Financial Strategic the 1st Private Equity F und (*) | Associate | _ | 91 | - | - | - | - | - | | |
| Our CrowdInternational Invest III (*) | Associate | - | - | 137 | - | - | - | 27 | | |
| Hana Must Sixth Special Purpose Acquisition C ompany (*) | Associate | - | _ | - | - | 1 | - | - | | |
| K1 No. 13Entrustment Management Real Estate Investment Company (*) | Associate | _ | 825 | - | - | _ | _ | _ | | |
| MyoungshinCo., Ltd. (*) | Associate | 52 | - | _ | (9) | _ | _ | _ | | |
| Fresheasy Co., Ltd. (*) | Associate | 378 | 17 | _ | _ | 41 | _ | _ | | |
| Key management personnel | | 294 | 68 | 114 | (2) | 89 | 6 | - | | |
| Total | | 33,955 | | 1,482 | 9,366 | 2,121 | 28,322 | 17,469 | | |

^(*) It is excluded from the related party for the year ended December 31, 2021.

58–2 Outstanding balances with related parties arising from the below significant transactions as of December 31, 2022 and 2021, are summarized as follows (Korean won in millions):

<December 31, 2022>

(Korean won in millions)

| | | Ass | ets | Allowance | | Liabilities | | |
|---|---------------|----------------------|-------------------|--------------------------|----------|-------------|----------------|--|
| Relatedparty | Туре | Loans receivables | Other receivables | for possible loan losses | Deposits | Borrowings | Other payables | |
| BankofJilin | Associate | 3,200 | 2,409 | - | 1,611 | - | - | |
| CMInternational Financing Leases | Associate | 61,969 | - | 49,620 | 18 | - | - | |
| BeijingLangaAssetManagementCo., Ltd. | Associate | - | - | - | 3,601 | - | _ | |
| PT. SINARMAS Hana Finance | Joint venture | 37,144 | 143 | 229 | 5 | - | - | |
| MIDANCity Development Co., Ltd. | Associate | - | - | - | 2 | - | - | |
| Korea Credit Bureau | Associate | 40,069 | - | 17 | 8,263 | - | 20 | |
| KEB Hana-KVICUnicorn Fundof Funds | Associate | - | - | - | 3,993 | - | - | |
| Templeton Hana Asset Management Co., Ltd. | Associate | - | - | - | 10,672 | - | _ | |
| BIDV | Associate | 6,337 | 5,394 | 24 | 2,045 | 10,740 | - | |
| Toss BankCo., Ltd. | Associate | 250 | 45,715 | 1 | _ | - | 1,588 | |
| Shinjin International Corporation | Associate | 1,444 | 1 | 107 | _ | - | - | |
| SinsaStationComplex DevelopmentPFVCo., Ltd. | Associate | 33,300 | - | 9,887 | 45 | - | - | |
| Cheongna Medipolis PFVCo., Ltd. | Associate | - | - | - | 2,500 | - | 25 | |
| Mirae Credit Information Services Corp. | Associate | 7,238 | 172 | 9 | 2,267 | - | 146 | |
| LakebridgeTheGrowthCapitalPEF1 | Associate | - | - | - | 330 | - | - | |
| Hana-Capstone Al Platform Fund | Associate | - | - | - | 16,841 | - | - | |
| KORAMCOTHEONEREIT (formerly known as KOCREFREIT 30) | Associate | - | 39,421 | _ | - | - | 27,920 | |
| Gunsan BIO Energy Co., Ltd. | Associate | - | 2,617 | 2,617 | 549 | - | - | |
| GMHBCo., Ltd. | Associate | - | - | - | 100 | - | 343 | |
| Lotte Ventures Corp. (formerly known as Lotte Accelerator Corporation) | Associate | - | - | - | 96 | - | - | |
| Hana Power Infra 1st Private Equity Fund | Associate | 11,116 | 598 | 170 | 4,264 | - | - | |
| Hana UBS Asset Management | Associate | 21 | 507 | - | 18,287 | - | - | |
| 2018 Hana-Magna Startup Fund | Associate | - | 346 | - | _ | - | - | |
| DangsandongPFVCo., Ltd. | Associate | - | - | - | 675 | - | 9 | |
| WorldHansSangDreamIsland | Associate | - | - | - | - | - | 120 | |
| Daegu MBC Development PFVCo. Ltd. | Associate | 134,430 | - | 1,345 | 2 | - | 6 | |
| YHLeisure Development Co., Ltd. | Associate | 112,331 | _ | 172 | 5,045 | - | 7 | |
| Changjo Innovation CO., Ltd. | Associate | 4 | - | - | 70 | - | 201 | |
| DowonAssetDevelopmentCo., Ltd. | Associate | 10,000 | 3,685 | - | - | - | - | |
| HORIZONPRIVATE EQUITYFUND | Associate | _ | 5,263 | _ | _ | - | _ | |
| Hana Must Seven Special Purpose Acquisition Company | Associate | - | 796 | - | 1,389 | - | - | |
| Hana Financial Sixteenth Special Purpose Acquisition Company | Associate | - | 990 | - | 1,275 | - | - | |
| Hana Ever Best Corporation Financial Stability Private Investment Co., Ltd. | Associate | - | 207 | - | _ | - | 19 | |
| Genesis Environment No. 3Private Equity Fund | Associate | _ | _ | _ | _ | _ | 1 | |
| Hana Hoechang Private Equity Fund No. 1 | Associate | _ | - | - | _ | - | 28 | |
| Hana Financial Nineteenth Special Purpose Acquisition Company | Associate | _ | 1,595 | _ | 2,423 | - | - | |
| Smart Hana-K&GreenNewDeal No. 1 Fund | Associate | - | 84 | - | - | - | - | |
| People Korea Two | Associate | 30,000 | _ | 22,279 | 47 | _ | _ | |
| Hana Financial Twentieth Special Purpose Acquisition Company | Associate | _ | 700 | _ | 778 | _ | _ | |
| NewDeal Extension NewTechnology FundNo. 1 | Associate | _ | - | - | _ | - | 17 | |
| ImgokRental HousingCO., Ltd. | Associate | _ | _ | _ | 38 | _ | _ | |

| | | Ass | ets | Allowance | Liabilities | | | |
|--|-----------|-------------------|-------------------|--------------------------|-------------|------------|----------------|--|
| Relatedparty | Type | Loans receivables | Other receivables | for possible loan losses | Deposits | Borrowings | Other payables | |
| Daeyoung Networks Co., Ltd. | Associate | - | - | _ | _ | - | 7 | |
| Hana Finacial Twenty-first Special Purpose Acquisition Company | Associate | | 1,390 | _ | 2,572 | - | | |
| Hana X Bio New Technology Fund | Associate | - | 2,000 | - | - | - | - | |
| Infinity ESGPrivate Equity FundNo. 2 | Associate | - | ı | - | - | _ | 9 | |
| Choice & Soyeon Construction Co., Ltd. | Associate | 25,000 | 1,600 | 100 | 104 | - | - | |
| Hana Financial Twenty-second Special Purpose Acquisition Company | Associate | _ | 1,190 | - | 2,007 | _ | - | |
| Hana Financial Twenty-third Special Purpose Acquisition Company | Associate | - | 1,290 | - | 1,911 | - | - | |
| Hana Financial Twenty-fourth Special Purpose Acquisition Company | Associate | - | 1,798 | - | 2,954 | - | - | |
| Hana Financial Twenty-fifth Special Purpose Acquisition Company | Associate | - | 4,995 | - | 6,536 | - | - | |
| Eugene Asia Food Tech Fund-1 | Associate | - | - | - | 247 | - | - | |
| K&FashionNo. 1 Fund | Associate | - | 6 | - | - | - | - | |
| Hana Financial Twenty-sixth Special Purpose Acquisition Company | Associate | - | 1,290 | - | - | - | - | |
| Hana Financial Twenty-seventh Special Purpose Acquisition Company | Associate | - | 1,390 | _ | - | - | - | |
| Hana-Magna Growth Booster Fund | Associate | - | 174 | - | - | - | 18 | |
| Glenwood Credit Private Equity Fund II | Associate | - | 2,070 | - | - | - | - | |
| HanaAlternativeSpecialInvestmentPrivateTrustNo. 161 | Associate | - | 6 | - | - | - | - | |
| HanaAlternative Investment Real Estate Private Trust No. 189 | Associate | - | 12 | - | - | - | - | |
| Hana Alternative Investment Blind General Private Real Estate Investment Trust No. 172 | Associate | - | 10 | - | - | - | - | |
| F&UCredit Information | Associate | 192 | - | - | 1,149 | - | - | |
| Hana Ventures No. 1 Investment Fund | Associate | - | 8 | - | - | - | - | |
| Hana Digital Transformation Fund | Associate | - | 5,507 | - | - | _ | 12 | |
| Hana Ventures No. 5 Investment Fund | Associate | - | 23 | _ | 592 | _ | | |
| Hana Innovation Venture Scale-up Fund | Associate | - | 1,174 | _ | 10,943 | _ | _ | |
| Digital Innovation Growth Fund | Associate | - | 100 | | - | _ | | |
| Gyeonggi Hana Turnaround Fund No. 2 | Associate | _ | 141 | - | 11,370 | _ | | |
| Hana Untact Digital Innovation Fund | Associate | _ | 172 | _ | 8,252 | _ | | |
| Hana K-New Deal Unicom Fund | Associate | | 573 | | _ | | | |
| Key management personnel | | 9,505 | - | 14 | 17,663 | _ | 4 | |
| Total | | 523,550 | 137,562 | 86,591 | 153,531 | 10,740 | 30,500 | |

<December 31, 2021>

| | | Ass | ets | Allowancefor | | Liabilities | |
|--|--------------|----------------------|-------------------|------------------------|----------|-------------|----------------|
| Relatedparty | Type | Loans receivables | Other receivables | possible loanlosses | Deposits | Borrowings | Other payables |
| BankofJilin | Associate | 6,300 | 11,573 | - | 3,492 | - | - |
| CMInternational Financing Leases | Associate | 63,341 | - | 35,184 | 18 | - | - |
| Beijing Langa Asset Management Co., Ltd. | Associate | 11,161 | - | 21 | 12 | - | - |
| PT. SINARMAS Hana Finance | Jointventure | 32,491 | 33 | 163 | 12 | - | - |
| MIDANCity Development Co., Ltd. | Associate | 1 | - | - | 2 | - | - |
| Company KStartup Winwin fund | Associate | - | - | - | 300 | - | - |
| Korea Credit Bureau | Associate | 55 | - | _ | 141 | - | 217 |

| | | Ass | ets | Allowancefor | | Liabilities | |
|---|--------------|-------------------|-------------------|------------------------|----------|-------------|----------------|
| Relatedparty | Туре | Loans receivables | Other receivables | possible loanlosses | Deposits | Borrowings | Other payables |
| KEB Hana-KVICUnicom Fundof Funds | Associate | - | - | - | 3,779 | - | _ |
| Templeton Hana Asset Management Co., Ltd. | Associate | - | - | - | 11,694 | - | _ |
| BIDV | Associate | 11,855 | 3,851 | 39 | 1,653 | 80,755 | _ |
| Toss BankCo., Ltd. (formerly Toss INNOVATIONCO., LTD) | Associate | 138 | 10,682 | - | - | - | 514 |
| Shinjin International Corporation | Associate | 1,444 | 1 | 107 | - | - | _ |
| Inhee | Associate | - | - | - | 2 | - | - |
| Sinsa Station Complex Development PFVCo., Ltd. | Associate | 99,000 | _ | 713 | 92 | - | _ |
| FinngCo., Ltd. | Jointventure | 88 | 13 | 12 | 15,289 | _ | 47 |
| Mirae Credit Information Services Corp. | Associate | 253 | 246 | - | 4,631 | - | 100 |
| Heat Private Equity Fund | Associate | - | - | - | 1 | - | 8 |
| LakebridgeTheGrowthCapitalPEF1 | Associate | - | _ | - | 277 | - | _ |
| Hana-Capstone Al Platform Fund | Associate | - | _ | - | 2,129 | - | 48 |
| KORAMCO THE ONE REIT (formerly known as KOCREFREIT 30) | Associate | 40,000 | 48,434 | 139 | - | - | 35,836 |
| Gunsan BIO Energy Co., Ltd. | Associate | 2 | 2,617 | 2,617 | 555 | _ | |
| GMHBCo., Ltd. | Associate | 52,500 | | 336 | 100 | _ | 169 |
| Lotte Ventures Corp. (previously, Lotte Accelerator Corporation) | Associate | - | - | - | 777 | - | - |
| Hana Power Infra 1st Private Equity Fund | Associate | 13,023 | 598 | 239 | 12,428 | _ | - |
| Hana UBS Asset Management | Associate | 19 | 689 | | 16,328 | _ | |
| Smartscore Co., Ltd. | Associate | 1 | 2,077 | _ | 188 | _ | 37 |
| 2018 Hana – Magna Startup Fund | Associate | _ | 147 | _ | _ | _ | - |
| DangsandongPFVCo., Ltd. | Associate | _ | _ | _ | 183 | _ | 12 |
| WorldHansSangDreamIsland | Associate | 4,750 | 8 | 18 | 52 | _ | 122 |
| DaeguMBCDevelopment PFVCo. Ltd. | Associate | 123,325 | _ | 1,163 | 2,402 | _ | 104 |
| Genesis Environment No. 1 Private Equity Fund | Associate | _ | _ | _ | _ | _ | 1 |
| YHLeisure Development Co., Ltd. | Associate | 115,473 | _ | 332 | 1,788 | _ | - |
| Changjo Innovation CO., Ltd. | Associate | 1 | _ | - | 45 | - | 98 |
| DowonAsset Development Co., Ltd. | Associate | 9,942 | 3,685 | 55 | 83 | _ | 2 |
| HORIZONPRIVATE EQUITY FUND | Associate | - | 2,640 | - | - | - | - |
| HanaMustSevenSpecial PurposeAcquisition Comp any | Associate | - | 796 | - | 1,405 | - | - |
| Hana Financial Fourteen Special Purpose Acquisition Company | Associate | - | 990 | - | 1,285 | - | - |
| Hana Financial Fifteenth Special Purpose Acquisition Company | Associate | - | 1,390 | _ | 1,588 | _ | - |
| Hana Financial Sixteenth Special Purpose Acquisition Company | Associate | - | 990 | - | 1,286 | - | |
| Hana Financial Seventeen Special Purpose Acquisition Company | Associate | - | 2,611 | - | 2,535 | - | |
| Hana Ever Best Corporation Financial Stability Private Investment Co., Ltd. | Associate | - | 136 | - | - | - | 24 |
| Genesis Environment No. 3 Private Equity Fund | Associate | - | - | - | - | _ | 1 |
| Hana Hoechang Private Equity Fund No. 1 | Associate | - | - | _ | - | _ | 24 |
| Hana Financial Nineteenth Special Purpose Acquisition Company | Associate | - | 1,595 | _ | 2,496 | _ | |
| Smart Hana-K&GreenNewDeal No. 1 Fund | Associate | - | _ | - | - | _ | 4 |
| People Korea Two | Associate | 30,000 | - | 182 | 57 | _ | 69 |
| Hana Financial Twentieth Special Purpose Acquisition Company | Associate | - | 700 | - | 817 | - | - |
| NewDeal Extension NewTechnology FundNo. 1 | Associate | _ | _ | _ | _ | _ | 22 |

| | | Ass | sets | Allowancefor | | Liabilities | |
|---|-----------|----------------------|-------------------|-------------------------|----------|-------------|----------------|
| Relatedparty | Type | Loans receivables | Other receivables | possible loan losses | Deposits | Borrowings | Other payables |
| ImgokRental Housing CO., Ltd. | Associate | 12,000 | 239 | 39 | 308 | - | 901 |
| Daeyoung Networks Co., Ltd. | Associate | - | - | - | 1 | - | 23 |
| HabaFinacial Twenty-OneSpecial Purpose Acquisiti onCompany | Associate | - | 1,390 | - | 2,786 | - | - |
| Hana-Magna Growth Booster Fund | Associate | _ | 122 | - | _ | - | 28 |
| Hana Qualified Investor Private Real Estate Investment Trust No. 41–2 | Associate | - | 1 | _ | _ | - | - |
| Hana Alternative Special Investment Private Trust No. 161 | Associate | - | 6 | _ | _ | - | _ |
| F&UCredit Information | Associate | 97 | _ | - | 1,266 | - | _ |
| Hana Ventures No. 1 Investment Fund | Associate | _ | 4,403 | _ | _ | _ | 10 |
| Hana Digital Transformation Fund | Associate | - | - | - | 661 | - | - |
| Hana Innovation Venture Scale-upFund | Associate | - | 704 | _ | 7,786 | - | - |
| Key management personnel | | 11,216 | _ | 4 | 16,036 | | 3 |
| Total | | 638,475 | 103,367 | 41,363 | 118,765 | 80,755 | 38,424 |

58–3 The Group engages in financing activities and transactions with related parties as part of normal business activities. Money transactions between related parties for the years ended December 31, 2022 and 2021, are as follows (Korean won in millions).

<2022>

| Relatedparty | Type | Loar | ns Receivables(| *1) | Deposit | ts(*1) andBorro | wings | Ca | pital Contribu | ution |
|--|---------------|-----------|-----------------|------------|-----------|-----------------|------------|----------|----------------|------------|
| Helateupany | туре | Lend | Collect | Difference | Increase | Decrease | Difference | Increase | Decrease | Difference |
| BankofJilin | Associate | 108,600 | (111,700) | (3,100) | - | - | _ | - | - | - |
| Beijing Langa Asset Management Co., Ltd. | Associate | _ | (12,083) | (12,083) | - | - | _ | - | (2,888) | (2,888) |
| PT. SINARMAS Hana Finance | Joint venture | 7,086 | (1,572) | 5,514 | 5 | (12) | (7) | - | - | - |
| BSK-6 Patent Technology Investment Association | Associate | _ | - | _ | - | - | _ | - | (327) | (327) |
| Company KStartupWinwinfund | Associate | _ | _ | _ | - | (300) | (300) | - | (7,090) | (7,090) |
| Korea Credit Bureau | Associate | 40,640 | (626) | 40,014 | 8,000 | - | 8,000 | - | - | - |
| KEB Hana-KVICUnicom Fundof Funds | Associate | _ | - | _ | - | - | _ | 25,130 | _ | 25,130 |
| Templeton Hana Asset Management Co., Ltd. | Associate | - | - | _ | 10,500 | (11,000) | (500) | - | (198) | (198) |
| BIDV | Associate | 419,413 | (425,749) | (6,336) | 1,349,738 | (1,422,233) | (72,495) | - | - | - |
| Harvest Private Equity Fund Specializing in Start-Upand Venture Business I | Associate | 1 | - | - | - | - | - | - | (27) | (27) |
| All Together Korea Fund5 | Associate | _ | - | _ | _ | - | _ | 62 | (62) | - |
| Toss BankCo., Ltd. | Associate | 1,063,137 | (1,063,025) | 112 | - | - | _ | 79,753 | - | 79,753 |
| Sinsa Station Complex Development PFVCo., Ltd. | Associate | 56,800 | (122,500) | (65,700) | - | - | _ | - | _ | - |
| Taurus CloudFund | Associate | - | - | _ | - | - | _ | 77 | - | 77 |
| Cheongna Medipolis PFVCo., Ltd. | Associate | - | _ | _ | 2,500 | - | 2,500 | - | - | _ |
| NEHK52Ltd. | Associate | - | _ | _ | _ | - | _ | 48,872 | _ | 48,872 |
| Mirae Credit Information Services Corp. | Associate | 10,143 | (3,158) | 6,985 | - | (300) | (300) | - | (186) | (186) |

| 6 | _ | Loar | ns Receivables | (*1) | Deposit | s(*1) and Borro | wings | Cá | apital Contribu | ution |
|---|-----------|--------|----------------|------------|----------|-----------------|------------|----------|-----------------|------------|
| Relatedparty | Type | Lend | Collect | Difference | Increase | Decrease | Difference | Increase | Decrease | Difference |
| LakebridgeTheGrowthCapital PEF1 | Associate | - | - | - | - | - | - | - | (256) | (256) |
| Hana-Capstone Al Platform Fund | Associate | _ | - | - | 42 | (42) | - | 25,000 | - | 25,000 |
| KORAMCOTHEONEREIT (Formerly known as KOCREF REIT30) | Associate | 1 | (40,000) | (40,000) | I | - | I | I | (1,727) | (1,727) |
| Gunsan BIO Energy Co., Ltd. | Associate | 4 | (5) | (1) | - | _ | _ | _ | - | - |
| GMHBCo., Ltd. | Associate | _ | (52,500) | (52,500) | _ | - | ı | ı | _ | - |
| Hana Power Infra 1st Private Equity Fund | Associate | _ | (1,907) | (1,907) | - | - | - | - | - | _ |
| Hana UBS Asset Management | Associate | 279 | (277) | 2 | 18,000 | (16,000) | 2,000 | _ | (3,822) | (3,822) |
| World HansSang DreamIsland | Associate | _ | (4,750) | (4,750) | - | - | - | _ | - | - |
| DreamIslandLeisure | Associate | - | - | - | - | - | - | 1,990 | - | 1,990 |
| Daegu MBC Development PFV Co. Ltd. | Associate | 11,105 | _ | 11,105 | - | - | - | - | - | - |
| YHLeisure Development Co., Ltd. | Associate | 465 | (3,608) | (3,143) | 5,000 | - | 5,000 | - | - | - |
| Changjo Innovation CO., Ltd. | Associate | 68 | (66) | 2 | _ | (10) | (10) | - | | - |
| Dowon Asset Development Co., Ltd. | Associate | 184 | (126) | 58 | - | _ | - | - | - | - |
| HORIZONPRIVATE EQUITYFUND | Associate | - | - | - | - | - | - | _ | (55,811) | (55,811) |
| Curious Solution No.1 Corporate Recovery Private Equity Fund | Associate | - | - | - | - | _ | - | - | (7,200) | (7,200) |
| Hana Ever Best Corporation Financial Stability Private Investment Co., Ltd. | Associate | - | - | - | - | - | - | 6,044 | - | 6,044 |
| Genesis Environment No. 3Private Equity Fund | Associate | - | - | - | - | - | - | - | (766) | (766) |
| Hana Financial Nineteenth Special Purpose Acquisition Company | Associate | - | - | - | 13 | - | 13 | - | - | - |
| Smart Hana-K&GreenNewDeal No. 1 Fund | Associate | - | - | - | - | - | - | 6,050 | - | 6,050 |
| People Korea Two | Associate | 20,000 | (20,000) | - | - | - | - | _ | - | - |
| NewDeal Extension New Technology FundNo. 1 | Associate | 1 | - | - | - | - | - | 5,000 | - | 5,000 |
| GFI ESG the 1st Private Equity Fund | Associate | - | - | - | - | - | - | 4,754 | (10,556) | (5,802) |
| ImgokRental Housing CO., Ltd. | Associate | _ | (12,000) | (12,000) | - | - | _ | - | - | - |
| Hana Financial Twenty-first Special Purpose Acquisition Company | Associate | _ | _ | - | 2,100 | _ | 2,100 | _ | - | - |
| NPX-Welcome Metaverse Contents fund | Associate | - | - | - | - | - | - | 1,000 | - | 1,000 |
| STICHealthcare Private Equity | Associate | - | - | - | _ | - | - | 1,000 | - | 1,000 |
| NH-DeepDiveSmartLogistics Fund | Associate | - | - | - | - | - | - | 2,000 | - | 2,000 |
| Octave Tech Investment L25 LLC | Associate | _ | - | - | _ | - | - | 1,841 | - | 1,841 |
| ST-CENTUMFundNo.2 | Associate | _ | - | - | _ | _ | - | 2,000 | - | 2,000 |
| Hana X Bio New Technology Fund | Associate | _ | - | _ | _ | - | - | 22,000 | - | 22,000 |
| The HahmGreen Energy Fund | Associate | _ | - | - | 5,600 | (5,600) | _ | 19,500 | (6,500) | 13,000 |
| EBESTHBICFundNo.83 | Associate | _ | _ | _ | _ | _ | _ | 2,000 | - | 2,000 |
| Infinity ESGPrivate Equity Fund No. 2 | Associate | - | - | - | _ | - | - | 15,034 | (1,634) | 13,400 |
| Choice & Soyeon Construction Co., Ltd. | Associate | 25,000 | - | 25,000 | - | - | - | 86 | - | 86 |

| Type | Loar | s Receivables(| (*1) | Deposit | ts(*1) and Borro | owings | Ca | pital Contribu | ution | |
|------------|---|----------------|---|---|---|------------|----------|---|---|--|
| .,,,,, | Lend | Collect | Difference | Increase | Decrease | Difference | Increase | Decrease | Difference | |
| Associate | - | - | - | - | - | - | 1,400 | - | 1,400 | |
| Associate | - | - | - | 1,600 | - | 1,600 | 10 | - | 10 | |
| Associate | - | - | _ | - | - | _ | 1,000 | - | 1,000 | |
| Associate | - | - | - | 1,500 | I | 1,500 | 10 | - | 10 | |
| Associate | - | - | - | 2,450 | - | 2,450 | 2 | - | 2 | |
| Associate | - | - | - | 5,800 | - | 5,800 | 5 | - | 5 | |
| Associate | - | - | - | - | I | _ | 2,562 | - | 2,562 | |
| Associate | - | - | - | - | - | - | 1,149 | - | 1,149 | |
| Associate | - | | _ | - | _ | _ | 27,400 | (2,000) | 25,400 | |
| Associate | _ | - | _ | - | _ | - | 1,000 | - | 1,000 | |
| Associate | _ | - | - | - | - | _ | 1,000 | - | 1,000 | |
| Associate | - | _ | - | - | - | - | 2,000 | - | 2,000 | |
| Associate | - | - | - | - | - | - | 1,000 | - | 1,000 | |
| Associate | - | _ | - | - | _ | - | 118,708 | (2,632) | 116,076 | |
| Associate | - | - | - | - | - | - | 10 | - | 10 | |
| Associate | - | - | - | - | - | - | 10 | - | 10 | |
| Associate | - | - | _ | - | - | - | 2,000 | - | 2,000 | |
| Associate | - | _ | _ | - | - | _ | 2,000 | _ | 2,000 | |
| Associate | - | - | _ | - | - | - | 2,000 | - | 2,000 | |
| Associate | - | - | | - | - | - | 1,000 | - | 1,000 | |
| Associate | - | _ | _ | _ | - | _ | 1,700 | _ | 1,700 | |
| Associate | - | _ | _ | - | - | _ | 7,500 | _ | 7,500 | |
| Associate | - | - | _ | - | - | _ | _ | (1,595) | (1,595) | |
| Associate | - | - | _ | - | - | - | - | (825) | (825) | |
| Associate | - | - | - | - | - | - | 5,000 | - | 5,000 | |
| Associate | - | - | - | - | _ | - | 3,000 | - | 3,000 | |
| Associate | - | - | - | - | - | - | 32,000 | - | 32,000 | |
| Associate | - | _ | - | _ | - | _ | - | (1,394) | (1,394) | |
| Associate | - | - | - | - | - | - | - | (38) | (38) | |
| Associates | - | - | - | - | _ | _ | 2,150 | - | 2,150 | |
| | Associate | Associate | Type Lend Collect Associate — — Ass | Associate — — — Associate — — — | Type Lend Collect Difference Increase Associate — — — Associate | Associate | Name | New Color Color | Type Lend Collect Difference Increase Decrease Otherwood Decrease Difference Decrease Decrease | |

| 2 | _ | Loar | ns Receivables(| <u>(</u> *1) | Deposi | ts(*1) andBorro | owings | Ca | apital Contribu | ution |
|--|------------|-----------|-----------------|--------------|-----------|-----------------|------------|----------|-----------------|------------|
| Relatedparty | Type | Lend | Collect | Difference | Increase | Decrease | Difference | Increase | Decrease | Difference |
| Hana Alternative Investment Blind General Private Real Estate Investment Trust No. 172 | Associates | - | - | - | - | - | - | 800 | (16) | 784 |
| A&DCreditInformationCo.,Ltd. | Associate | - | - | - | - | - | - | - | (33) | (33) |
| Metheus Private Equity Real Estate Fund 10 | Associate | - | - | - | - | - | - | 2,000 | (104) | 1,896 |
| F&UCredit Information | Associate | 1,584 | (1,489) | 95 | 502 | (1,011) | (509) | - | - | - |
| Hana Digital Transformation Fund | Associate | - | - | - | - | - | - | - | (4,738) | (4,738) |
| Hana Ventures No. 5 Investment Fund | Associate | - | _ | - | 1,000 | (500) | 500 | - | - | - |
| Hana Innovation Venture Scale-up Fund | Associate | - | - | - | 13,000 | (8,000) | 5,000 | 6,000 | _ | 6,000 |
| Gyeonggi Hana Turnaround Fund No. 2 | Associate | - | - | - | 17,000 | (10,000) | 7,000 | 6,000 | - | 6,000 |
| Hana Untact Digital Innovation Fund | Associate | - | - | - | 13,000 | (10,000) | 3,000 | 18,600 | _ | 18,600 |
| HanaK-NewDeal UnicornFund | Associate | - | - | - | - | - | - | 29,160 | - | 29,160 |
| Axis Bio Fund | Associate | - | - | - | - | - | - | - | (507) | (507) |
| Smartscore Co., Ltd. (*2) | Associate | 38 | (39) | (1) | - | - | - | - | - | - |
| Genesis Environment No. 1 Private Equity Fund(*2) | Associate | - | _ | - | - | - | - | - | (5,566) | (5,566) |
| Hana-History No 1 Investment Fund (*2) | Associate | - | - | - | - | - | - | - | (5,452) | (5,452) |
| HanaBioNewTechnologyFund No. 1 (*2) | Associate | - | _ | - | - | _ | _ | - | (1,170) | (1,170) |
| Striker Morgarten I Private Equity Fund (*2) | Associate | - | _ | - | - | _ | _ | 43,400 | (43,300) | 100 |
| Genesis Environment No. 6Private Equity Fund(*2) | Associate | - | - | - | - | - | - | - | (4,677) | (4,677) |
| Otium-Gravity Private Equity Fund (*2) | Associates | - | - | - | - | - | - | 2,000 | (2,000) | - |
| Genesis Environment No. 5Private Equity Fund(*2) | Associate | - | - | - | - | - | _ | 30,000 | (23,000) | 7,000 |
| Key management personnel (*3) | | - | (1,711) | (1,711) | 5,363 | - | 5,363 | - | - | - |
| Total | 1 | 1,764,546 | (1,878,891) | (114,345) | 1,462,713 | (1,485,008) | (22,295) | 622,769 | (198,097) | 424,672 |

- (*1) Overdrawn accounts on a daily basis are excluded from the lending and collection of loans, and the amounts of frequent deposits and borrowings are excluded from the changes in deposits.
- (*2) It is excluded from a related party for the year ended December 31, 2022. (*3) Financial transactions with key management personnel are shown as net amounts.

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| Dolated Dorb | Tuno | Loan | s Receivable | s(*1) | Deposits | (*1) and Bor | rowings | Capital Contribution | | | |
|--|---------------|---------|--------------|------------|----------|--------------|------------|----------------------|----------|------------|--|
| Related Party | Type | Lend | Collect | Difference | Increase | Decrease | Difference | Increase | Decrease | Difference | |
| Bank of Jilin | Associate | 216,800 | (221,100) | (4,300) | - | - | _ | - | - | _ | |
| Beijing Langa Asset Management Co., Ltd. | Associate | - | (1,860) | (1,860) | - | - | - | - | (2,281) | (2,281) | |
| PT. SINARMAS Hana Finance | Joint venture | 15,062 | (2,517) | 12,545 | 23 | (24) | (1) | - | _ | _ | |
| Company KStartupWinwinfund | Associate | - | - | - | 300 | - | 300 | - | (300) | (300) | |
| Korea Credit Bureau | Associate | 542 | (550) | (8) | - | (3,000) | (3,000) | ı | (90) | (90) | |
| KEB Hana-KVICUnicom Fundof Funds | Associate | _ | _ | _ | 15,000 | (15,000) | _ | 18,000 | _ | 18,000 | |

| | | Loan | Loans Receivables(*1) Deposits(*1) and Borrowings Capital Contribu | | | | Capital Contributi | | ontribution | | |
|--|---------------|---------|--|------------|----------|-----------|--------------------|----------|-------------|------------|--|
| Related Party | Type | Lend | Collect | Difference | Increase | Decrease | Difference | Increase | Decrease | Difference | |
| Templeton Hana Asset Management Co., Ltd. | Associate | - | - | - | 11,000 | (18,000) | (7,000) | - | (990) | (990) | |
| BIDV | Associate | 898,147 | (904,075) | (5,928) | 647,603 | (620,511) | 27,092 | _ | (6,262) | (6,262) | |
| Harvest Private Equity Fund Specializing in Start-Upand Venture Business I | Associate | - | - | - | - | - | - | _ | (27) | (27) | |
| Toss BankCo., Ltd. | Associate | 1,555 | (1,476) | 79 | 180,000 | (200,000) | (20,000) | 47,500 | _ | 47,500 | |
| Sinsa Station Complex Development PFV Co., Ltd. | Associate | 99,000 | - | 99,000 | - | - | - | 450 | _ | 450 | |
| Taurus CloudFund | Associate | - | - | - | - | - | - | 9,401 | - | 9,401 | |
| NPX-Welcome Metaverse Contents fund | Associate | - | - | - | - | - | - | 2,000 | - | 2,000 | |
| Cheongna Medipolis PFVCo., Ltd. | Associate | - | - | - | - | - | - | 3,708 | _ | 3,708 | |
| FinnqCo., Ltd. | Joint venture | 890 | (834) | 56 | - | _ | - | - | _ | _ | |
| Mirae Credit Information Services Corp. | Associate | 2,868 | (2,771) | 97 | 310 | (10) | 300 | - | (186) | (186) | |
| Apollon Private Equity Fund | Associate | - | - | - | - | - | - | _ | (3,817) | (3,817) | |
| LakebridgeTheGrowthCapitalPEF1 | Associate | _ | - | - | - | _ | - | - | (243) | (243) | |
| Hana-Capstone Al Platform Fund | Associate | - | _ | - | 42 | _ | 42 | 25,000 | _ | 25,000 | |
| KORAMCOTHEONEREIT (formerly known as KOCREFREIT 30) | Associate | _ | (10,000) | (10,000) | - | - | - | - | (1,036) | (1,036) | |
| Gunsan BIO Energy Co., Ltd. | Associate | 15 | (16) | (1) | - | - | - | - | - | - | |
| Lotte Ventures Corp. (previously, Lotte Accelerator Corporation) | Associate | - | - | - | 1,500 | (2,500) | (1,000) | _ | _ | - | |
| HanaPowerInfra1stPrivateEquityFund | Associate | - | (1,163) | (1,163) | - | - | - | - | - | - | |
| Hana UBS Asset Management | Associate | 230 | (219) | 11 | 26,000 | (28,000) | (2,000) | - | (3,523) | (3,523) | |
| Smartscore Co., Ltd. | Associate | 84 | (84) | - | - | - | - | - | - | - | |
| 2018Hana-MagnaStartupFund | Associate | - | - | - | - | - | - | _ | (685) | (685) | |
| WorldHansSangDreamIsland | Associate | 3,300 | - | 3,300 | - | - | - | _ | _ | - | |
| DreamIslandLeisure | Associate | - | - | - | - | - | - | 5,969 | - | 5,969 | |
| DaeguMBCDevelopmentPFVCo. Ltd. | Associate | 123,420 | - | 123,420 | - | _ | - | - | _ | _ | |
| YHLeisure Development Co., Ltd. | Associate | 250 | (1,727) | (1,477) | - | _ | - | - | _ | _ | |
| Changjo Innovation CO., Ltd. | Associate | 221 | (40,227) | (40,006) | 110 | (100) | 10 | _ | _ | _ | |
| Dowon Asset Development Co., Ltd. | Associate | 2,799 | (857) | 1,942 | - | _ | - | - | _ | _ | |
| HORIZONPRIVATEEQUITYFUND | Associate | _ | - | - | - | _ | - | 26,171 | (25,588) | 583 | |
| Curious Solution No.1 Corporate Recovery Private Equity Fund | Associate | _ | - | - | - | - | - | _ | (1,232) | (1,232) | |
| DGHNewTechnology Investment AssociationNo. 1 | Associate | _ | - | - | - | - | - | 1,000 | _ | 1,000 | |
| Hana Ever Best Corporation Financial Stability Private Investment Co., Ltd. | Associate | - | - | - | - | - | - | 6,087 | _ | 6,087 | |
| HanaBioNewTechnologyFundNo.2 | Associate | - | _ | - | - | _ | - | 1,000 | _ | 1,000 | |
| HanaBioNewTechnologyFundNo.3 | Associate | _ | - | - | - | _ | - | 1,000 | _ | 1,000 | |
| Genesis Environment No. 3Private Equity Fund | Associate | _ | - | - | - | - | - | 18,900 | - | 18,900 | |
| Forest of Suseong | Associate | _ | - | _ | _ | - | _ | 110 | - | 110 | |
| BMVentures FundNo. 1 | Associate | - | - | - | - | _ | - | 1,500 | _ | 1,500 | |
| MCSoutheast Asia FundNo. 1 | Associate | _ | - | - | - | - | - | 916 | _ | 916 | |
| Hana Hoechang Private Equity Fund No. 1 | Associate | _ | _ | _ | _ | _ | _ | 362 | _ | 362 | |
| Hana Financial Nineteenth Special Purpose Acquisition Company | Associate | 1 | - | - | 1,800 | - | 1,800 | 5 | - | 5 | |
| HanaBioNewTechnologyFundNo.1-1 | Associate | _ | - | _ | _ | - | _ | 2,000 | _ | 2,000 | |
| Smart Hana-K&Green NewDeal No. 1 Fund | Associate | - | - | _ | _ | - | - | 4,950 | _ | 4,950 | |
| HanaSmartLogistics NewTechnology Fund | Associate | - | - | _ | - | - | - | 2,000 | - | 2,000 | |

| Doloto dD-+ | Loans Receivables(*1) | | Deposits(*1) and Borrowings | | owings | Capital Contribution | | | | |
|--|-----------------------|--------|-----------------------------|------------|----------|----------------------|------------|----------|----------|------------|
| RelatedParty | Type | Lend | Collect | Difference | Increase | Decrease | Difference | Increase | Decrease | Difference |
| Cornerstone Mutual Growth VI Fund | Associate | - | - | - | - | - | - | 1,000 | - | 1,000 |
| People KoreaTwo | Associate | 30,000 | _ | 30,000 | _ | - | _ | 45 | - | 45 |
| Hana Financial Twentieth Special Purpose Acquisition Company | Associate | - | - | _ | _ | - | - | 1 | - | 1 |
| C47 Investment-Contents Wavve Original Contents I Startupand Venture Private Equity Fund | Associate | - | - | _ | _ | - | _ | 1,000 | - | 1,000 |
| NewDeal Extension NewTechnology FundNo. 1 | Associate | - | - | _ | _ | - | _ | 11,000 | - | 11,000 |
| GFIESGthe 1st Private Equity Fund | Associate | _ | - | - | _ | - | _ | 10,600 | - | 10,600 |
| ImgokRental HousingCO., Ltd. | Associate | 12,000 | - | 12,000 | - | - | _ | 20 | ı | 20 |
| Daeyoung Networks Co., Ltd. | Associate | - | - | - | _ | _ | _ | 245 | - | 245 |
| Haba Finacial Twenty-One Special Purpose Acquisition Company | Associate | _ | - | _ | _ | - | _ | 10 | - | 10 |
| S&S-RedwoodIndiaAgri-techFund | Associate | - | - | - | - | - | - | 2,000 | - | 2,000 |
| KCLAVIS AIMArtificial Intelligence Fund No. 1 | Associate | - | - | _ | _ | - | _ | 1,000 | _ | 1,000 |
| K&Secondary No5Fund | Associate | _ | - | - | _ | - | - | 1,000 | _ | 1,000 |
| Genesis Environment Energy No. 6 Private Equity Fund | Associate | - | - | _ | _ | - | _ | 31,000 | - | 31,000 |
| Hana-Magna Growth Booster Fund | Associate | - | - | - | - | - | - | 7,500 | - | 7,500 |
| Hana Capital-Capstone Venture Fund III | Associate | _ | - | - | - | - | _ | 2,500 | - | 2,500 |
| Hana-KDBC, Capstone Venture Fund | Associate | - | - | - | _ | - | _ | - | (1,102) | (1,102) |
| KCLAVIS-MetaFundNo.2 | Associate | - | - | - | _ | _ | _ | 5,000 | _ | 5,000 |
| 2019 Capstone Venture Fund | Associate | - | - | - | - | - | - | 500 | - | 500 |
| KIAMCO Daegu Complex Development Fund | Associate | - | - | - | _ | - | - | 19,000 | (1,017) | 17,983 |
| Hana Qualified Investor Private Real Estate Investment Trust No. 41-2 | Associate | - | - | _ | _ | - | - | - | (107) | (107) |
| HanaAlternativeSpecialInvestment PrivateTrustNo. 161 | Associate | - | - | _ | - | - | - | 800 | (24) | 776 |
| A&DCreditInformationCo.,Ltd. | Associate | - | - | - | - | - | _ | - | (33) | (33) |
| F&UCredit Information | Associate | 1,297 | (1,295) | 2 | 3 | - | 3 | - | - | - |
| Hana Digital Transformation Fund | Associate | _ | - | - | - | - | _ | - | (8,903) | (8,903) |
| HS INVESTMENTS EU11 L.P. | Associate | - | _ | - | _ | _ | _ | 16 | _ | 16 |
| Hana Innovation Venture Scale-up Fund | Associate | - | - | - | - | _ | _ | 12,000 | - | 12,000 |
| Digital Innovation Growth Fund | Associate | _ | - | _ | - | ı | - | 3,000 | ı | 3,000 |
| Hana-History No1 Investment Fund | Associate | _ | - | _ | _ | ı | _ | 5,500 | ı | 5,500 |
| Gyeonggi Hana Turnaround Fund No. 2 | Associate | - | - | - | - | _ | _ | 12,000 | - | 12,000 |
| Hana Untact Digital Innovation Fund | Associate | - | _ | - | - | _ | - | 9,300 | - | 9,300 |
| Hana Financial Strategic the 1st Private Equity Fund (*2) | Associate | - | - | - | - | - | - | - | (1,061) | (1,061) |
| Our CrowdInternational Invest III (*2) | Associate | _ | _ | _ | _ | _ | _ | _ | (497) | (497) |
| KiwoomSecurities - Friend 1 New | | | | | | | | | | |
| Technology Business Investment Fund (*2) | Associate | _ | - | _ | _ | - | - | - | (1,424) | (1,424) |
| Petra6thAlpaPrivateEquityFund(*2) | Associate | _ | - | - | _ | _ | - | - | (47,978) | (47,978) |
| K1 No. 13 Entrustment Management Real Estate Investment Company (*2) | Associate | - | _ | _ | - | - | - | 4,500 | (122) | 4,378 |
| Gwangju Numun Mirae Asset PFVCo., LTD. (*2) | Associate | _ | - | _ | _ | - | - | 995 | _ | 995 |
| Genesis Environment No. 4Private Equity Fund (*2) | Associate | _ | _ | _ | _ | - | _ | 55,402 | _ | 55,402 |

| Deleted Derby | Turne | Loan | s Receivables | s(*1) | Deposits | s(*1) and Borro | owings | Cap | oital Contribu | tion |
|-------------------------------|-----------|-----------|---------------|------------|----------|-----------------|------------|----------|----------------|------------|
| RelatedParty | Type | Lend | Collect | Difference | Increase | Decrease | Difference | Increase | Decrease | Difference |
| MyoungshinCo., Ltd. (*2) | Associate | - | - | - | 30 | - | 30 | - | - | - |
| Fresheasy Co., Ltd. (*2) | Associate | 4,682 | (3,335) | 1,347 | 450 | - | 450 | - | _ | _ |
| Key management personnel (*3) | | - | (955) | (955) | - | (2,864) | (2,864) | - | - | _ |
| Total | | 1,413,162 | (1,195,061) | 218,101 | 884,171 | (890,009) | (5,838) | 374,963 | (108,528) | 266,435 |

- (*1) Overdrawn accounts on a daily basis are excluded from the lending and collection of loans, and the amounts of frequent deposits and borrowings are excluded from the changes in deposits.
- (*2) It is excluded from a related party for the year ended December 31, 2021. (*3) Financial transactions with key major management personnel are shown as net amounts.
- 58–4 Tangible and intangible assets etc. acquired from related parties were \forall 17 million and \forall 260 million for the year ended December 31, 2022 and 2021, respectively.
- 58–5 Significant guarantee contracts, Commitment and collateral provided between related parties as of December 31, 2022 and 2021, are summarized as follows (Korean won in millions):

<December 31, 2022>

| Related parties | | Transactions | Amounts |
|------------------|---|------------------------------------|---------|
| Benefactor | Beneficiary | | |
| KEB Hana Bank | Gyeonggi Hana Turn around Fund No. 2 | Securities purchase contract | 450 |
| KEB Hana Bank | Daegu MBC Development PFV Co. Ltd. | Unusedlimit (Loans in Koreanwon) | 65,292 |
| KEB Hana Bank | Taurus Cloud Fund | Securities purchase contract | 522 |
| KEB Hana Bank | Hana Digital Transformation Fund | Securities purchase contract | 1,000 |
| KEB Hana Bank | Hana Untact Digital Innovation Fund | Securities purchase contract | 450 |
| KEB Hana Bank | Hana K-NewDeal Unicorn Fund | Securities purchase contract | 10,800 |
| KEB Hana Bank | Hana Innovation Venture Scale-up Fund | Securities purchase contract | 520 |
| KEB Hana Bank | Cheongna Medipolis PFVCo., Ltd. | Securities purchase contract | 16,628 |
| KEB Hana Bank | Templeton Hana Asset Management Co., Ltd. | Securities purchase contract | 4,619 |
| BIDV | Hana Bank | Foreign currency Payment Guarantee | 59,306 |
| PT Bank KEB Hana | PT. SINARMAS HANA FINANCE | Collateral provided | 1,688 |
| Hana Securities | Hana Digital Transformation Fund | Securities purchase contract | 400 |
| Hana Securities | Hana Ever Best Corporation Financial Stability Private Investment Co., Ltd. | Securities purchase contract | |
| Hana Securities | Genesis Environment Energy No. 3 Private Equity Fund | Securities purchase contract | 900 |
| Hana Securities | Hana Hoechang Private Equity Fund No. 1 | Securities purchase contract | 20,495 |
| Hana Securities | NewDeal Extension NewTechnology Fund No. 1 | Securities purchase contract | 5,400 |
| Hana Securities | Hana-Magna Growth Booster Fund | Securities purchase contract | 6,000 |
| Hana Securities | Infinity ESG Private Equity Fund No. 2 | Securities purchase contract | 3,000 |
| KEB Hana Card | F&U Credit Information | Unused limit(Credit card) | 798 |
| KEB Hana Card | Korea Credit Bureau | Unused limit (Credit card) | 231 |
| KEB Hana Card | Mirae Credit Information Services Corp. | Unused limit(Credit card) | 762 |

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| | Related parties | | Amounts |
|---------------------------|---|------------------------------|---------|
| Benefactor | Beneficiary | Transactions | Amounts |
| KEB Hana Card | Gunsan BIO Energy Co., Ltd. | Unused limit(Credit card) | 30 |
| KEB Hana Card | Hana UBS Asset Management | Unused limit(Credit card) | 479 |
| KEB Hana Card | YHLeisure Development Co., Ltd. | Unused limit(Credit card) | 12 |
| KEB Hana Card | Changjo Innovation CO., Ltd. | Unused limit(Credit card) | 26 |
| KEB Hana Card | Toss Bank Co., Ltd. | Unused limit (Credit card) | 750 |
| KEB Hana Card | Hana Digital Transformation Fund | Securities purchase contract | 250 |
| KEB Hana Card | Gyeonggi Hana Turn around Fund No. 2 | Securities purchase contract | 300 |
| KEB Hana Card | Hana Untact Digital Innovation Fund | Securities purchase contract | 350 |
| KEB Hana Card | Hana K-NewDeal Unicorn Fund | Securities purchase contract | 4,200 |
| Hana Capital | PT. SINARMAS HANA FINANCE | Payment Guarantee | 21,034 |
| Hana Capital | Hana Digital Transformation Fund | Securities purchase contract | 250 |
| Hana Capital | Hana Innovation Venture Scale-up Fund | Securities purchase contract | 600 |
| Hana Capital | Genesis Environment Energy No. 3 Private Equity Fund | Securities purchase contract | 200 |
| Hana Capital | Gyeonggi Hana Turn around Fund No. 2 | Securities purchase contract | 300 |
| Hana Capital | Hana Untact Digital Innovation Fund | Securities purchase contract | 300 |
| Hana Capital | Hana K-NewDeal Unicorn Fund | Securities purchase contract | 4,800 |
| Hana Capital | Nautic Green Innovation ESG Co- investment No. 1 Private Equity Fund | Securities purchase contract | 3,280 |
| Hana Capital | NewDeal Extension NewTechnology FundNo. 1 | Securities purchase contract | 4,000 |
| Hana Capital | Hana-Magna Growth Booster Fund | Securities purchase contract | 3,600 |
| Hana Life Insurance | Hana Digital Transformation Fund | Securities purchase contract | 150 |
| Hana Life Insurance | Hana Innovation Venture Scale-up Fund | Securities purchase contract | 200 |
| Hana Life Insurance | Hana Beyond Finance Fund | Securities purchase contract | 7,000 |
| Hana Savings Bank | Hana Digital Transformation Fund | Securities purchase contract | 200 |
| Hana Savings Bank | Hana Innovation Venture Scale-up Fund | Securities purchase contract | 100 |
| Hana Asset Trust | Hana Digital Transformation Fund | Securities purchase contract | 100 |
| Hana Asset Trust | Hana Innovation Venture Scale-up Fund | Securities purchase contract | 200 |
| Hana Asset Trust | Hana Untact Digital Innovation Fund | Securities purchase contract | 200 |
| Hana Asset Trust | Hana K-NewDeal Unicom Fund | Securities purchase contract | 1,200 |
| Hana Alternative Asset | Hana Innovation Venture Scale-up Fund | Securities purchase contract | 100 |
| Hana Alternative Asset | Hana K-NewDeal Unicom Fund | Securities purchase contract | 600 |
| Hana Ventures | Hana Digital Transformation Fund | Securities purchase contract | 393 |
| Hana Ventures | Hana Innovation Venture Scale-up Fund | Securities purchase contract | 1,280 |
| Hana Ventures | Gyeonggi Hana Turn around Fund No. 2 | Securities purchase contract | 950 |
| Hana Ventures | Hana Untact Digital Innovation Fund | Securities purchase contract | 1,800 |
| Hana Ventures | Hana K-NewDeal Unicom Fund | Securities purchase contract | 22,140 |
| | Total | | 294,603 |



<December 31, 2021>

| | Related parties | Transactions | Amounts |
|-----------------|---|--|------------|
| Benefactor | Beneficiary | Tandadionio | , arroarra |
| KEB Hana Bank | GMHB Co., Ltd. | Unused limit (Loans in Korean won) | 6,00 |
| KEB Hana Bank | Hana Digital Transformation Fund | Securities purchase contract | 1,00 |
| KEB Hana Bank | Hana Innovation Venture Scale-up Fund | Securities purchase contract | 1,56 |
| KEB Hana Bank | All Together Korea Fund5 | Securities purchase contract | 990,00 |
| KEB Hana Bank | KEB Hana-KVIC Unicorn Fund of Funds | Securities purchase contract | 25,13 |
| KEB Hana Bank | TossBank Corp. (previously, TOSS INNOVATIONCO., LTD.) | Securities purchase contract | 227,27 |
| KEB Hana Bank | Taurus Cloud Fund | Securities purchase contract | 59 |
| KEB Hana Bank | Hana-Capstone Al PlatformFund | Securities purchase contract | 15,00 |
| KEB Hana Bank | Daegu MBC Site Complex Development PFV | Unusedlimit (Loans in foreign currency) | 74,88 |
| KEB Hana Bank | Smartscore Co., Ltd. | Unused limit (Loans in foreign currency) | |
| BIDV | KEB Hana Bank | Foreign currency Payment Guarantee | 26,78 |
| FinnqCo., Ltd. | KEB Hana Bank | Collateral provided | 5 |
| PTBank KEB Hana | PT. SINARMAS HANAFINANCE | Unusedlimit (Loans in foreign currency) | 7,39 |
| Hana Securities | Hana Digital Transformation Fund | Securities purchase contract | 40 |
| Hana Securities | Heat Private Equity Fund | Securities purchase contract | 29 |
| Hana Securities | Genesis Environment No. 1 Private Equity Fund | Securities purchase contract | 1,09 |
| Hana Securities | Hana Ever Best Corporation Financial Stability Private Investment Co., Ltd. Securities purchase contract | | 20,01 |
| Hana Securities | Genesis Environment No. 3 Private Equity Fund | Securities purchase contract | 90 |
| Hana Securities | Hana Hoechang(Shenzhen) Private Equity Fund No. 1 | Securities purchase contract | 20,49 |
| Hana Securities | Hana-Capstone Al PlatformFund | Securities purchase contract | 10,00 |
| Hana Securities | Smart Hana-K&Green NewDeal No. 1 Fund | Securities purchase contract | 3,30 |
| Hana Securities | NewDeal Extension NewTechnology Fund No. 1 | Securities purchase contract | 8,40 |
| Hana Securities | Hana-Magna Growth Booster Fund | Securities purchase contract | 10,50 |
| KEB Hana Card | F&UCredit Information | Unusedlimit(Credit card) | 89 |
| KEB Hana Card | FinnqCo., Ltd. | Unusedlimit(Credit card) | 13 |
| KEB Hana Card | Korea Credit Bureau | Unusedlimit(Credit card) | 24 |
| KEB Hana Card | Mirae Credit Information Services Corp. | Unusedlimit(Credit card) | 74 |
| KEB Hana Card | Gunsan BIO Energy Co., Ltd. | Unusedlimit(Credit card) | 2 |
| KEB Hana Card | Hana UBS Asset Management | Unusedlimit(Credit card) | 48 |
| KEB Hana Card | Smart score Co., Ltd. | Unusedlimit(Credit card) | |
| KEB Hana Card | YHLeisure Development Co., Ltd. | Unusedlimit(Credit card) | 1 |
| KEB Hana Card | Changjo Innovation CO., Ltd. Unusedlimit(Credit card) | | 2 |
| KEB Hana Card | Toss Bank Co., Ltd. (formerly Toss Innovation Preparation Corporation) | Unusedlimit(Credit card) | 86 |
| KEB Hana Card | Dowon Asset Development Co., Ltd. | Unusedlimit(Credit card) | 2 |
| KEB Hana Card | Hana Financial Fourteen Special Purpose Acquisition Company | Unusedlimit(Credit card) | 5 |

| Related parties | | Transactions | Amounts |
|--------------------------------------|--|----------------------------------|------------|
| Benefactor | Beneficiary | I far isactions | Arriourits |
| KEB Hana Card | Hana Financial Nineteenth Special Purpose Acquisition Company | Unusedlimit(Credit card) | 50 |
| KEB Hana Card | Hana Digital Transformation Fund | Securities purchase contract | 250 |
| KEB Hana Card | Gyeonggi Hana Turn around Fund No. 2 | Securities purchase contract | 1,200 |
| KEB Hana Card | Hana Untact Digital Innovation Fund | Securities purchase contract | 2,450 |
| Hana Capital | PT SINARMAS HANA FINANCE | Payment Guarantee | 21,606 |
| Hana Capital | Hana Digital Transformation Fund | Securities purchase contract | 250 |
| Hana Capital | Hana Innovation Venture Scale-up Fund | Securities purchase contract | 1,800 |
| Hana Capital | Genesis Environment Energy No. 3 Private Equity Fund | Securities purchase contract | 200 |
| Hana Capital | Smart Hana-K&Green New Deal No. 1 Fund | Securities purchase contract | 2,750 |
| Hana Capital | NewDeal Extension NewTechnology Fund No. 1 | Securities purchase contract | 5,600 |
| Hana Capital | Gyeonggi Hana Turn around Fund No. 2 | Securities purchase contract | 1,200 |
| Hana Capital | Hana Untact Digital Innovation Fund | Securities purchase contract | 2,100 |
| Hana Life Insurance | Hana Digital Transformation Fund | Securities purchase contract | 150 |
| Hana Life Insurance | Hana Innovation Venture Scale-up Fund | Securities purchase contract | 600 |
| Hana Life Insurance | Dowon Asset Development Co., Ltd. | Unusedlimit (Loans in Koreanwon) | 100 |
| Hana Savings Bank | World HansSang DreamIsland | Unusedlimit (Loans in Koreanwon) | 250 |
| Hana Savings Bank | Hana Digital Transformation Fund | Securities purchase contract | 200 |
| HanaSavings Bank | Hana Innovation Venture Scale-upFund | Securities purchase contract | 300 |
| HanaAssetTrust | Hana Digital Transformation Fund | Securities purchase contract | 100 |
| HanaAssetTrust | Hana Innovation Venture Scale-upFund | Securities purchase contract | 600 |
| HanaAssetTrust | Hana Untact Digital Innovation Fund | Securities purchase contract | 1,400 |
| Hana Alternative Asset Management | Hana Digital Transformation Fund | Securities purchase contract | 150 |
| Hana Alternative Asset Management | HanaInnovationVentureScale-upFund | Securities purchase contract | 300 |
| HanaVentures | Hana Digital Transformation Fund | Securities purchase contract | 393 |
| HanaVentures | HanaInnovationVentureScale-upFund | Securities purchase contract | 3,840 |
| HanaVentures | Gyeonggi Hana Turnaround Fund No. 2 | Securities purchase contract | 3,800 |
| HanaVentures | Hana Untact Digital Innovation Fund | Securities purchase contract | 12,600 |
| | Total | | 1,518,832 |

58–6 Details of compensation paid to key management personnel for the years ended December 31, 2022 and 2021, are summarized as follows (Korean won in millions):

| Classification | 2022 | 2021 |
|-----------------------------------|--------|--------|
| Employee payment | 61,788 | 58,302 |
| Severance payment | 7,656 | 2,684 |
| Share-based compensation expenses | 8,912 | 17,805 |
| Total | 78,474 | 78,791 |

58-7 The defined benefit plans between entities belonging to the Group as of December 31, 2022 and 2021, are as follows (Korean won in millions):

| Classification | December 31, 2022 | December 31, 2021 | Description |
|-----------------|-------------------|-------------------|---------------|
| KEB Hana Bank | 235,023 | 188,126 | Trust account |
| Hana Securities | 170,140 | 133,408 | Trust account |
| Total | 405,163 | 321,534 | |

59. BUSINESS COMBINATION

59-1 Overview

Finnq Co., Ltd. is a fintech company established on August 24, 2016 with the Group and SK Telecom investing 51% and 49%, respectively. Finnq Co., Ltd. became a wholly-owned subsidiary of the Group by acquiring the remaining 49% stake of Finnq Co., Ltd. on July 27, 2022. The main reasons for the business combination are securing profitability through the expansion of Finnq's financial product intermediation business, as well as entering new business areas and collaborating on digital-related operations within the Group.

59–2 Identifiable net assets

Finnq Co., Ltd.'s idetifiable assets acquired and liabilities assumed as of the acquisition date are as follows (Korean won in millions):

| Classification | Accounts | Amounts(*) |
|------------------------|-----------------------------------|------------|
| | Cash and due from banks | 9,023 |
| | Trade receivables | 1,064 |
| Assets | Tangible assets | 762 |
| Assets | Intangible assets | 2,218 |
| | Otherassets | 1,553 |
| | Subtotal | 14,620 |
| | Defined benefit liabilities | 121 |
| | Trade payables and other payables | 383 |
| Liabilities | Advances | 4,875 |
| | Otherliabilities | 2,708 |
| | Subtotal | 8,087 |
| The fair value of iden | 6,533 | |

^(*) The business combination of Finnq Co., Ltd. is measured by using the book value of identifiable assets and liabilities assumed as of the acquisition date.

59-3 Goodwill

Goodwill related to the business combination of Finnq Co., Ltd. is as follows (Korean won in millions):

| Classification | Amounts |
|---|---------|
| Consideration transferred(*) | 11,700 |
| The fair value of identifiable net assets | (6,533) |
| Goodwill | 5,167 |

^(*) The fair value of the investments in associates of Finnq Co., Ltd. before the acquisition date amounts to \$45,733 million.

60, SUBSEQUENT EVENTS AFTER THE REPORTING PERIOD

On February 9, 2023, the Group decided to acquire and retire its treasury stock at the meeting of the board of directors, and plans to acquire \text{\psi}150,000 million worth of its treasury stock through a trust agreement from February 17, 2023 to August 16, 2023. After the acquisition, the Company plans to retire all of the treasury stock acquired.

61. APPROVAL OF THE CONSOLIDATED FINANCIAL STATEMENTS

The Group's consolidated financial statements for the year ended December 31, 2022 were approved by the board of directors on March 7, 2023, and will receive final approval at the shareholders' meeting to be held on March 24, 2023.

