Meritz Securities Co., Ltd. and its subsidiaries

Consolidated financial statements for the year ended December 31, 2021 and 2020 with the independent auditor's report



Table of contents

Independent Auditors' Report

Consolidated financial statements	Page
Consolidated statements of financial position	1
Consolidated statements of profit or loss and other comprehensive income	2
Consolidated statements of changes in equity	3
Consolidated statements of cash flows	4
Notes to the consolidated financial statements	6



KPMG Samjong Accounting Corp.

P.O.Box Kangnam 1989 Gangnam Finance Center 27th Fl., 152, Teheran-ro, Gangnam-ku Seoul 06134 Republic of Korea Tel 82-2-2112-0100 Fax 82-2-2112-0101 www.kr.kpmg.com

Independent Auditors' Report

Based on a report originally issued in Korean

The Board of Directors and Stockholders Meritz Securities Co., Ltd.

Opinion

We have audited the consolidated financial statements of Meritz Securities Co., Ltd. and its subsidiaries ("the Group"), which comprise the consolidated statements of financial position as of December 31, 2021 and 2020, the consolidated statements of comprehensive income, changes in equity and cash flows for the years then ended, and notes, comprising a summary of significant accounting policies and other explanatory information.

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the consolidated financial position of the Group as of December 31, 2021 and 2020, and its consolidated financial performance and its consolidated cash flows for the years then ended in accordance with Korean International Financial Reporting Standards ("K-IFRS").

Basis for Opinion

We conducted our audits in accordance with Korean Standards on Auditing ("KSAs"). Our responsibilities under those standards are further described in the *Auditors' 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 opinion.

Emphasis of Matter

As a matter that does not affect our audit opinion, we draw attention to the following matter.

As described in note 48 to the consolidated financial statements, the ongoing COVID-19 pandemic has increased uncertainty and may have negative impacts on business performance and profits in financial investment industry, but the potential overall impact on the Group's consolidated financial statements and performance cannot be reliably determined as of now. Our opinion is not modified in respect of this matter.

Key Audit Matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the consolidated financial statement as of and for the year ended December 31, 2021. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

(1) Fair value measurement of derivatives and derivatives-linked securities ("DLS") classified as level 3

The Group classifies and discloses fair value of the financial instruments as level 3 when the inputs used in the valuation method that give significant impact on the result of the fair value measurement for the financial instruments are based on unobservable inputs.

As of December 31, 2021, the financial assets and financial liabilities of derivatives and DLS classified as level 3 are KRW 164,167 million and KRW 6,107,946 million, respectively. (Note 44.1.2, Fair value of financial assets and liabilities)

We identified the following risk and determined the fair value measurement of derivatives and DLS classified as level 3 as a key audit matter since the significant judgment and estimation by management are involved, and estimation uncertainties exist.

- Risk of misstatement of fair value due to incorrect application of valuation techniques for derivatives and DLS classified as fair value level 3 and unobservable inputs (variability of underlying assets, correlation and discount rate)

The following are the primary procedures we performed to address this key audit matter.

- We evaluated the effectiveness of certain internal controls on the fair value measurement of derivatives and DLS. These included the development and verification of valuation techniques and controls related to change in valuation techniques, the calculation and application of unobservable inputs, and controls related to change in unobservable inputs.
- We evaluated valuation techniques and unobservable inputs for the samples, and we compared the fair value measured with independently developed valuation techniques and unobservable inputs with the fair value presented by the management. For this procedure, valuation specialists with professional skill and knowledge, if necessary, were involved.

(2) Assessment of the allowances for credit losses for loans

The Group measures the allowances for credit losses for loans through estimating probability of default in respect of borrowers' credit rating, loss given default and forward-looking information. We identified the following risk and determined the allowances for credit losses for loans as a key audit matter since the credit rating requires high level judgment in considering qualitative and quantitative factors.

The Group recognized an allowance for credit losses for loans amounting to KRW 161,620 million as of December 31, 2021. (Note 11, Loans)

- Risk of misstatement in allowances for credit losses for loans due to management's bias or error on determination of credit rating.

The following are the primary procedures we performed to address this key audit matter.

- We evaluated testing the effectiveness of certain internal controls on allowances for credit losses for loans measurement. These included controls related to comparing internal credit ratings with credit ratings from credit rating company and evaluation of probability of default of credit rating company.
- We reviewed the reliability of the borrower's collateral Loan to Value ("LTV") and basic information used by the management, and evaluated the adequacy of the additional credit rating adjustments.
- We independently compared if any significant difference existed between the credit graded by management and re-measured credit ratings of borrower based on LTV, default information and others.

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

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with K-IFRS, and for such internal control as management determines 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 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.

Auditors' 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 auditors' report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an 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 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 in the preparation of the consolidated financial statements and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of 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 auditors' report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditors' 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 remain 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 the internal controls 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 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 as of and for the year ended December 31, 2021 and are therefore the key audit matters. We describe these matters in our auditors' 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 auditors' report is Min-Gyu Kim.

KPMG Samjong Accounting Corp.

KPM9 Samjone aucunting Corp.

Seoul, Korea March 8, 2022

This report is effective as of March 8, 2022, the audit report date. Certain subsequent events or circumstances, which may occur between the audit report date and the time of reading this report, could have a material impact on the accompanying consolidated financial statements and notes thereto. Accordingly, the readers of the audit report should understand that the above audit report has not been updated to reflect the impact of such subsequent events or circumstances, if any.

Meritz Securities Co., Ltd. and its subsidiaries

Consolidated financial statements for the years ended December 31, 2021 and 2020

"The accompanying consolidated financial statements, including all footnotes and disclosures, have been prepared by, and are the responsibility of, the Group."

Alexander Heemoon Choi Chief Executive Officer Meritz Securities Co., Ltd.

Meritz Securities Co., Ltd. and its subsidiaries Consolidated statements of financial position as of December 31, 2021 and 2020

(Korean won in thousands)

	Notes	De	cember 31, 2021	December 31, 2020			
Assets							
Cash and due from banks Financial assets measured at FVTPL Financial assets measured at FVOCI Investments in associates and joint ventures Loans Lease assets Property and equipment Investment property Intangible assets Net Defined benefit assets Tax assets Other assets	7, 37, 38, 41, 43, 44, 47 8, 23, 37, 38, 43, 44, 45, 47 9, 43, 44, 47 10 11, 37, 43, 44, 45, 47 12, 43, 44, 47 13 14 15 21 35 16, 37, 43, 44, 45, 47	₩	3,817,859,156 26,982,344,185 3,242,998,268 1,512,864,231 14,302,471,666 1,559,536,486 37,914,346 151,170,975 40,075,686 87,429 208,693,939 2,252,222,746	₩	2,222,507,308 24,740,241,541 648,920,062 1,666,295,119 11,177,655,377 1,300,298,950 43,119,386 6,838,530 39,657,542 - 182,270,631 1,819,186,755		
Total assets		₩	54,108,239,113	₩	43,846,991,201		
Liabilities							
Deposits Financial liabilities measured at FVTPL Borrowings Provisions Net Defined benefit liabilities Tax liabilities Other liabilities	17, 37, 43, 44, 47 18, 23, 37, 43, 44, 45, 47 19, 37, 43, 44, 45, 47 20, 39 21 35 22, 37, 43, 44, 45, 47	₩	2,564,607,606 11,018,913,632 32,166,837,112 20,974,113 - 177,291,885 2,825,200,338	₩	1,954,874,966 7,849,760,645 26,474,744,774 16,036,648 332,246 178,775,912 2,583,683,037		
Total liabilities			48,773,824,686		39,058,208,228		
Equity							
Issued capital Hybrid bond Capital surplus and adjustments Accumulated other comprehensive income Retained earnings (Regulatory reserve for credit loss) 147,515,610 thousand won as of Dec, 31, 2021 232,974,833 thousand won as of Dec, 31, 2020 (Planned (reversal of) regulatory reserve for credit loss) 33,876,123 thousand won as of Dec, 31, 2021 (-) 85,459,223 thousand won as of Dec, 31, 2020	24 24 25, 26 27 28		776,178,787 694,740,750 1,270,246,360 152,774,864 2,316,028,606		776,139,916 249,886,460 1,548,087,012 122,063,901 1,918,191,404		
Equity attributable to owners of the company			5,209,969,367		4,614,368,693		
Non-controlling interests			124,445,060		174,414,280		
Total equity			5,334,414,427		4,788,782,973		
Total liabilities and equity		₩	54,108,239,113	₩	43,846,991,201		

Meritz Securities Co., Ltd. and its subsidiaries
Consolidated statements of profit or loss and other comprehensive income
for the years ended December 31, 2021 and 2020
(Korean won in thousands, execpt for per share data)

Operating revenue: Commission income 29 W Gain on valuation and disposal of financial instruments 30 Gain on derivative valuation and transactions 23, 30 Interest income 31 Gain on valuation and disposal of loans 11 Gain on foreign exchange transactions Lease income 12 Others 33 Operating expenses: Commission expenses 29 Loss on valuation and disposal of financial instruments 30 Loss on derivative valuation and transactions 23, 30 Interest expenses 31 Loss on valuation and disposal of loans 11 Loss on foreign exchange transactions 31 Loss on foreign exchange transactions 31 Loss on foreign exchange transactions 31 Ceneral and administrative expenses 32 Lease expense 12 Others 33 Operating income Other income 34 Other expenses 34	705,872,250 2,613,114,335 16,811,003,737 1,160,415,434 10,850,617 1,306,999,636 175,500,795 463,628,919 23,247,385,723 (109,726,165) (2,883,513,205) (16,457,437,732) (393,312,733) (47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782) 1,047,200,419 (264,275,878)	W	\$82,921,985 2,499,891,222 10,517,419,308 1,099,735,693 11,420,454 1,444,026,719 148,320,290 301,142,006 16,604,877,677 (67,853,053) (2,840,700,555) (9,974,821,893) (424,883,745) (67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Operating revenue: 29 ₩ Commission income 29 ₩ Gain on valuation and disposal of financial instruments 30 23, 30 Gain on derivative valuation and transactions 23, 30 11 Gain on valuation and disposal of loans 11 12 Gain on foreign exchange transactions 12 12 Others 33 33 Operating expenses: Commission expenses Commission expenses Loss on valuation and disposal of financial instruments 30 Loss on derivative valuation and transactions 23, 30 Interest expenses 31 Loss on valuation and disposal of loans 11 Loss on foreign exchange transactions General and administrative expenses 32 Lease expense Others Operating income Other income Other income Other expenses 34 Other expenses 34 Other expenses 34 Other expenses 36 W W W W W W W W W W W W W	705,872,250 2,613,114,335 16,811,003,737 1,160,415,434 10,850,617 1,306,999,636 175,500,795 463,628,919 23,247,385,723 (109,726,165) (2,883,513,205) (16,457,437,732) (393,312,733) (47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782)	₩	582,921,985 2,499,891,222 10,517,419,308 1,099,735,693 11,420,454 1,444,026,719 148,320,290 301,142,006 16,604,877,677 (67,853,053) (2,840,700,555) (9,974,821,893) (424,883,745) (67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Commission income 29 ₩ Gain on valuation and disposal of financial instruments 30 Gain on derivative valuation and transactions 23, 30 Interest income 31 Gain on valuation and disposal of loans 11 Gain on foreign exchange transactions 12 Others 33 Operating expenses: Commission expenses Commission expenses Loss on valuation and disposal of financial instruments 30 Loss on derivative valuation and transactions 23, 30 Interest expenses 31 Loss on valuation and disposal of loans 11 Loss on foreign exchange transactions General and administrative expenses 32 Lease expense Others Operating income Other income Other income Other expenses 34 Other expenses 34 Other expenses 34 Other expenses 34 Other income Other income Other income Other income Other income Other income Other expenses 30 21 22 34 34 Other expenses 34 Other income Other incom	2,613,114,335 16,811,003,737 1,160,415,434 10,850,617 1,306,999,636 175,500,795 463,628,919 23,247,385,723 (109,726,165) (2,883,513,205) (16,457,437,732) (393,312,733) (47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782)	W	2,499,891,222 10,517,419,308 1,099,735,693 11,420,454 1,444,026,719 148,320,290 301,142,006 16,604,877,677 (67,853,053) (2,840,700,555) (9,974,821,893) (424,883,745) (67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Gain on derivative valuation and transactions Interest income Gain on valuation and disposal of loans Gain on foreign exchange transactions Lease income Others Operating expenses: Commission expenses Loss on valuation and disposal of financial instruments Loss on derivative valuation and transactions Interest expenses Interest expens	16,811,003,737 1,160,415,434 10,850,617 1,306,999,636 175,500,795 463,628,919 23,247,385,723 (109,726,165) (2,883,513,205) (16,457,437,732) (393,312,733) (47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782)		10,517,419,308 1,099,735,693 11,420,454 1,444,026,719 148,320,290 301,142,006 16,604,877,677 (67,853,053) (2,840,700,555) (9,974,821,893) (424,883,745) (67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Interest income 31 Gain on valuation and disposal of loans 11 Gain on foreign exchange transactions 12 Lease income 12 Others 33 Operating expenses: Commission expenses 29 Loss on valuation and disposal of financial instruments 30 Loss on derivative valuation and transactions 23, 30 Interest expenses 31 Loss on valuation and disposal of loans 11 Loss on foreign exchange transactions 32 General and administrative expenses 32 Lease expense 12 Others 33 Operating income Other income 34 Other expenses 34	1,160,415,434 10,850,617 1,306,999,636 175,500,795 463,628,919 23,247,385,723 (109,726,165) (2,883,513,205) (16,457,437,732) (393,312,733) (47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782) 1,047,200,419		1,099,735,693 11,420,454 1,444,026,719 148,320,290 301,142,006 16,604,877,677 (67,853,053) (2,840,700,555) (9,974,821,893) (424,883,745) (67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Gain on valuation and disposal of loans Gain on foreign exchange transactions Lease income Others Operating expenses: Commission expenses Loss on valuation and disposal of financial instruments Solution of the valuation and transactions Interest expenses Interest	10,850,617 1,306,999,636 175,500,795 463,628,919 23,247,385,723 (109,726,165) (2,883,513,205) (16,457,437,732) (393,312,733) (47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782)		11,420,454 1,444,026,719 148,320,290 301,142,006 16,604,877,677 (67,853,053) (2,840,700,555) (9,974,821,893) (424,883,745) (67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Gain on foreign exchange transactions Lease income Others Operating expenses: Commission expenses Loss on valuation and disposal of financial instruments Loss on derivative valuation and transactions Interest expenses Interest	1,306,999,636 175,500,795 463,628,919 23,247,385,723 (109,726,165) (2,883,513,205) (16,457,437,732) (393,312,733) (47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782)		1,444,026,719 148,320,290 301,142,006 16,604,877,677 (67,853,053) (2,840,700,555) (9,974,821,893) (424,883,745) (67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Lease income 12 Others 33 Operating expenses: Commission expenses 29 Loss on valuation and disposal of financial instruments 30 Loss on derivative valuation and transactions 23, 30 Interest expenses 31 Loss on valuation and disposal of loans 11 Loss on foreign exchange transactions 32 General and administrative expenses 32 Lease expense 12 Others 33 Operating income Other income 34 Other expenses 34	175,500,795 463,628,919 23,247,385,723 (109,726,165) (2,883,513,205) (16,457,437,732) (393,312,733) (47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782) 1,047,200,419		148,320,290 301,142,006 16,604,877,677 (67,853,053) (2,840,700,555) (9,974,821,893) (424,883,745) (67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Others 33 Operating expenses: Commission expenses 29 Loss on valuation and disposal of financial instruments 30 Loss on derivative valuation and transactions 23, 30 Interest expenses 31 Loss on valuation and disposal of loans 11 Loss on foreign exchange transactions General and administrative expenses 32 Lease expense 12 Others 33 Operating income Other income 34 Other expenses 34	463,628,919 23,247,385,723 (109,726,165) (2,883,513,205) (16,457,437,732) (393,312,733) (47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782) 1,047,200,419		301,142,006 16,604,877,677 (67,853,053) (2,840,700,555) (9,974,821,893) (424,883,745) (67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Operating expenses: Commission expenses 29 Loss on valuation and disposal of financial instruments 30 Loss on derivative valuation and transactions 23, 30 Interest expenses 31 Loss on valuation and disposal of loans 11 Loss on foreign exchange transactions General and administrative expenses 32 Lease expense 12 Others 33 Operating income Other income 34 Other expenses 34	23,247,385,723 (109,726,165) (2,883,513,205) (16,457,437,732) (393,312,733) (47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782) 1,047,200,419		(67,853,053) (2,840,700,555) (9,974,821,893) (424,883,745) (67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Commission expenses 29 Loss on valuation and disposal of financial instruments 30 Loss on derivative valuation and transactions 23, 30 Interest expenses 31 Loss on valuation and disposal of loans 11 Loss on foreign exchange transactions 32 General and administrative expenses 32 Lease expense 12 Others 33 Operating income Other income Other expenses 34	(109,726,165) (2,883,513,205) (16,457,437,732) (393,312,733) (47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782) 1,047,200,419		(67,853,053) (2,840,700,555) (9,974,821,893) (424,883,745) (67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Commission expenses 29 Loss on valuation and disposal of financial instruments 30 Loss on derivative valuation and transactions 23, 30 Interest expenses 31 Loss on valuation and disposal of loans 11 Loss on foreign exchange transactions 32 General and administrative expenses 32 Lease expense 12 Others 33 Operating income Other income Other expenses 34	(2,883,513,205) (16,457,437,732) (393,312,733) (47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782)		(2,840,700,555) (9,974,821,893) (424,883,745) (67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Loss on valuation and disposal of financial instruments 30 Loss on derivative valuation and transactions 23, 30 Interest expenses 31 Loss on valuation and disposal of loans 11 Loss on foreign exchange transactions 32 General and administrative expenses 12 Others 33 Operating income Other income Other expenses 34	(2,883,513,205) (16,457,437,732) (393,312,733) (47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782)		(2,840,700,555) (9,974,821,893) (424,883,745) (67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Loss on derivative valuation and transactions 23, 30 Interest expenses 31 Loss on valuation and disposal of loans 11 Loss on foreign exchange transactions 32 General and administrative expenses 12 Others 33 Operating income Other income 34 Other expenses 34	(16,457,437,732) (393,312,733) (47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782) 1,047,200,419		(9,974,821,893) (424,883,745) (67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Interest expenses	(393,312,733) (47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782) 1,047,200,419		(424,883,745) (67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Loss on valuation and disposal of loans Loss on foreign exchange transactions General and administrative expenses Lease expense Others Operating income Other income Other expenses 34 Other expenses	(47,916,607) (1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782) 1,047,200,419		(67,967,766) (1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Loss on foreign exchange transactions 32 General and administrative expenses 12 Lease expense 12 Others 33 Operating income Other income 34 Other expenses 34	(1,219,764,824) (772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782) 1,047,200,419		(1,493,485,456) (605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
General and administrative expenses 32 Lease expense 12 Others 33 Operating income Other income 34 Other expenses 34	(772,910,601) (94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782) 1,047,200,419	_	(605,441,095) (80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Lease expense 12 Others 33 Operating income Other income 34 Other expenses 34	(94,148,552) (319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782) 1,047,200,419		(80,667,167) (221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Others 33 Operating income Other income 34 Other expenses 34	(319,716,195) (22,298,446,614) 948,939,109 153,808,092 (55,546,782) 1,047,200,419		(221,058,347) (15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Operating income Other income 34 Other expenses 34	(22,298,446,614) 948,939,109 153,808,092 (55,546,782) 1,047,200,419		(15,776,879,077) 827,998,600 81,526,925 (142,358,457)
Other income 34 Other expenses 34	153,808,092 (55,546,782) 1,047,200,419		81,526,925 (142,358,457)
Other income 34 Other expenses 34	153,808,092 (55,546,782) 1,047,200,419		81,526,925 (142,358,457)
Other expenses 34	(55,546,782)		(142,358,457)
·	1,047,200,419		(142,358,457)
<u> </u>			· · · · · · · · · · · · · · · · · · ·
Income before income taxes	(264.275.878)		767,167,068
Income tax expense 35			(202,032,626)
Net income 28 ₩	782,924,541	₩	565,134,442
33,876,123 thousand won for the year ended Dec, 31, 2021 (-) 85,459,223 thousand won for the year ended Dec, 31, 2020 (Adjusted net income after reserves for credit losses) 740,992,638 thousand won for the year ended Dec, 31, 2021 643,725,612 thousand won for the year ended Dec, 31, 2020			
Other comprehensive income			
Items that will not be reclassified subsequently to profit or loss: Gain (loss) on valuation of equity securities 9 W measured at FVOCI	19,430,293	₩	37,196,505
Gain (loss) on disposal of equity securities measured at FVOCI	391,500		970
Gain (loss) on valuation of financial liabilities	(422,375)		536,472
designated as measured at FVTPL Remeasurement gain (loss) on Net defined benefit plan 21	(74,033)		(871,207)
Items that may be reclassified subsequently to profit or loss:			
Gain (loss) on valuation of debt securities 9	6,037,600		176,273
measured at FVOCI Decrease in valuation of investment stock using the equity method Exchange differences on translation of foreign operations	1,263,197 4,476,281		(1,263,197) (1,111,352)
	31,102,463		34,664,464
Total comprehensive income	814,027,004	***	599,798,906
Total comprehensive income ₩	814,027,004	₩	393,730,900
Net income attributable to : Owners of the Company W	774,868,761	₩	558,266,389
Non-controlling interests	8,055,780	VV	6,868,053
₩	782,924,541	₩	565,134,442
Total other comprehensive income attributable to :		-	,,
Owners of the Company Non-controlling interests	31,102,463	₩	34,664,464
₩	31,102,463	₩	34,664,464
Total Comprehensive income attributable to :			· ·
Owners of the Company	805,971,224	₩	592,930,853
Non-controlling interests	8,055,780		6,868,053
₩	814,027,004	₩	599,798,906
Racio carringe per chare (won)	4 204	317	967
Basic earnings per share (won) Diluted earnings per share (won) 36 ₩ 36	1,201 1,129	₩	865 804

	Issued capital	Hybrid bond	Capital surplus and adjustments	Accumulated other comprehensive income	Retained earnings	Non-controlling interests	Total
Balance at January 1, 2020	₩ 717,488,890	₩ 199,909,080	₩ 1,406,942,024	₩ 87,400,407	₩ 1,507,794,407	₩ 99,744,500	₩ 4,019,279,308
Dividends	_	-	_	-	(135,745,772)	-	(135,745,772)
Total comprehensive income:					-		
Net income	-	-	-	-	558,266,389	6,868,053	565,134,442
Other comprehensive income:							
Gain (loss) on valuation of equity securities measured at FVOCI	-	-	-	37,196,505	-	-	37,196,505
Gain (loss) on disposal of equity securities measured at FVOCI	-	-	-	-	970	-	970
Gain (loss) on valuation of debt securities measured at FVOCI	-	-	-	176,273	-	-	176,273
Remeasurements of the net defined benefit liabilities	_	_	_	(871,207)	_	_	(871,207)
Gain (loss) on valuation of financial liabilities designated as measured at FVTPL	-	-	-	536,472	-	-	536,472
Gain (loss) on valuation of investment stock using the equity method	-	-	-	(1,263,197)	_	_	(1,263,197)
Exchange differences on translation of foreign operations	-	-	-	(1,111,352)	_	-	(1,111,352)
Capital increase with consideration	58,651,026	-	141,030,891	-	-	-	199,681,917
Issue of hybrid bond	-	49,977,380	-	-	-	-	49,977,380
Issue of hybrid bond of subsidiaries	-	-	-	-	-	74,669,780	74,669,780
Dividends paid of hybrid bond	-	-	-	-	(12,124,590)	-	(12,124,590)
Dividends paid of hybrid bond of subsidiaries	-	-	-	-	-	(6,868,053)	(6,868,053)
Allocated expense of stock options	-	-	114,050	-	-	-	114,050
Sale of treasury stock			47				47
Balance at December 31, 2020	₩ 776,139,916	₩ 249,886,460	₩ 1,548,087,012	₩ 122,063,901	₩ 1,918,191,404	₩ 174,414,280	₩ 4,788,782,973

	Iss	sued capital		Hybrid bond	Capital surplus and adjustments		com	cumulated other prehensive income		Retained earnings	No	on-controlling interests		Total
Balance at January 1, 2021	₩	776,139,916	₩	249,886,460	₩ 1,548,087,0	12	₩	122,063,901	₩	1,918,191,404	₩	174,414,280	₩	4,788,782,973
Dividends		-		-		-		-		(222,671,002)		-		(222,671,002)
Redemption of redeemable convertible preferred stock		-		-		-		-		(132,612,342)		-		(132,612,342)
Total comprehensive income:														
Net income		-		-		-		-		774,868,761		8,055,780		782,924,541
Other comprehensive income:														
Gain (loss) on valuation of equity securities measured at FVOCI		-		-		-		19,430,293		-		-		19,430,293
Gain (loss) on disposal of equity securities measured at FVOCI		-		-		-		-		391,500		-		391,500
Gain (loss) on valuation of debt securities measured at FVOCI		-		-		-		6,037,600		-		-		6,037,600
Remeasurements of the net defined benefit liabilities(assets)		-		-		-		(74,033)		-		_		(74,033)
Gain (loss) on valuation of financial liabilities designated as measured at FVTPL		-		-		-		(422,375)		-		-		(422,375)
Gain (loss) on valuation of investment stock using the equity method		-		-		-		1,263,197		-		_		1,263,197
Exchange differences on translation of foreign operations		-		-		-		4,476,281		-		-		4,476,281
Conversion expense of		38,871		-	(48,6	39)		-		-		-		(9,768)
redeemable convertible preferred stock to common stock														
Expense of parents company's stock option		-		-	(24,742,8	42)		-		-		-		(24,742,842)
Issue of hybrid bond		-		444,854,290		-		-		-		-		444,854,290
Dividends paid of hybrid bond		-		-		-		-		(22,139,715)		-		(22,139,715)
Issue of hybrid bond of subsidiaries		-		-		-		-		-		49,775,280		49,775,280
Redemption of hybrid bond of subsidiaries		-		-	(255,5	00)		-		-		(99,744,500)		(100,000,000)
Dividends paid of hybrid bond of subsidiaries		-		-		-		-		-		(8,055,780)		(8,055,780)
Transaction costs on issue of subsidiaries shares		-		-	(96,0	00)		-		-		-		(96,000)
Allocated expense of stock options		-		-	114,0			-		-		-		114,050
Acquisition of treasury stock		-		-	(252,811,7			-		-		-		(252,811,721)
Balance at December 31, 2021	₩	776,178,787	₩	694,740,750	₩ 1,270,246,3	60	₩	152,774,864	₩	2,316,028,606	₩	124,445,060	₩	5,334,414,427

(Korean won in thousands)

(Korean won in thousands)		
	Year ended December 31, 2021	Year ended December 31, 2020
Operating activities:		
Net income before income taxes	₩ 1,047,200,419	₩ 767,167,068
Adjustments to non-cash items:	(55, 450, 700)	(44.047.070)
Gain on valuation of Financial assets measured at FVTPL	(55,456,783)	(41,347,872)
Gain on derivative valuation	(51,953,948)	(199,747,190)
Loss (gain) on valuation of financial assets designated at fair value through profit or loss	(4,959,678)	119,248,881
Loss (gain) on evaluation of other financial instruments	932	(10)
Provision of allowance for doubtful accounts	54,008,588	66,753,942
Provision of other allowance for doubtful accounts	4,874,733	4,438,222
Loss (gain) on foreign currency translation	(108,333,998)	36,619,957
Depreciation of property and equipment	16,096,561	15,634,432
Amortization of intangible assets	4,483,011	3,889,953
Depreciation expenses on operating lease assets	75,337,227	60,035,569
Impairment losses on financial assets measured at FVOCI	1,710,620	85,014
Loss (gain) on disposal of financial assets measured at FVOCI	788,781	(3,143)
Contribution to provision (reversal)	4,552,745	(11,502,537)
Provision of credit risk adjustments Reversal of day 1 profit or loss adjustments	5,697,578 (118,804,264)	3,686,701 (45,142,563)
Post-employment benefit	5,055,500	4,666,802
Loss on valuation of incentives	38,048,226	8,569,459
Compensation expenses associated with stock option (Reversal)	114,050	(897,106)
Loss on disposal of property and equipment	99,177	25,869
Gain on disposal of investment property	(4,250,736)	(1,562,867)
Loss (gain) on disposal of intangible assets	372	(403,993)
Gain on disposal of investments	(11,898,746)	(11,022,301)
in associates, subsidiaries and joint venture		
Impairment loss on investment property	421,884	=
Reversal of impairment losses on intangible assets	-	(2,066,000)
Loss (gain) in equity method	(56,578,483)	78,449,390
Loss on redemption of debentures	-	446,929
Interest income	(1,203,837,620)	(1,144,017,265)
Interest expense	393,312,733	424,883,745
Dividend income	(41,557,948)	(32,598,982)
Changes in operating assets and liabilities:	(1,053,029,486)	(662,876,964)
Cash and due from banks	(1,418,463,589)	(120,133,866)
Financial assets at fair value through profit or loss	(2,227,997,651)	(5,845,885,452)
Loans	(3,949,390,466)	260,897,037
CMA	(0,010,000,100)	1,998,004
Lease assets	(336,034,015)	(51,370,982)
Other assets	(326,407,143)	(645,441,198)
Deposits	596,910,453	(114,490,277)
Financial liabilities at fair value through profit or loss	3,197,730,026	294,997,392
Defined benefit liabilities (assets)	(5,577,289)	(5,376,754)
Other liabilities	139,441,688	831,581,345
	(4,329,787,986)	(5,393,224,751)
Interest received	1,109,781,017	1,076,134,054
Interest paid	(416,049,401)	(395,567,080)
Dividends received	40,767,436	32,534,058
Income tax paid	(296,052,004)	(234,549,767)
Net cash flows used in operating activities	(3,897,170,005)	(4,810,383,382)

(Continued)

Consolidated statements of cash flows for the years ended December 31, 2021 and 2020 (cont'd)							
Investing activities:							

Investing activities:				
Disposal of financial assets measured at FVOCI	₩	1,277,158,678	₩	151,022,733
Disposal of invetment in associates and joint venture	VV	491,782,067	VV	558,118,086
•		87,488,478		61,316,504
Receipt of dividends from associates		1,950,236		331,405
Disposal of property and equipment				
Disposal of investment property		9,793,695		4,041,397
Decrease in intangible assets		49,629		758,373
Decrease in guarantee deposits		2,318,800		6,654,961
Acquisition of financial assets measured at FVOCI		(3,837,726,060)		(327,682,219)
Acquisition of investment in associates and joint venture		(357,334,721)		(903,656,476)
Acquisition of property and equipment		(2,610,111)		(6,650,301)
Increase in intangible assets		(4,814,303)		(5,091,776)
Increase in guarantee deposits		(519,397)		(6,522,535)
Acquisition of investments in subsidiaries (Note 41)		(169,377,169)		(15,358,616)
Net cash flows used in investing activities		(2,501,840,178)		(482,718,464)
Financing activities:				
Net increase in borrowings		5,389,296,534		4,137,364,860
Net increase in short-term bonds		1,577,060,000		· · · · · ·
Issue of bonds		3,253,804,155		3,625,633,117
Issue of hybrid bond		444,854,290		49,977,380
Capital increase with consideration		-		199,681,917
Issue of hybrid bond of subsidiaries		49,775,280		74,669,780
Sale of treasury stock		-		46
Net decrease in short-term bonds		_		(497,327,000)
Redemption of bonds		(3,400,000,000)		(2,120,544,650)
Dividends paid		(222,671,002)		(135,745,772)
Dividends paid of hybrid bond		(19,175,000)		(11,400,000)
Redemption of redeemable convertible preferred stock		(132,612,342)		-
Dividends paid of hybrid bond of subsidiaries		(8,294,100)		(6,502,800)
Redemption of hybrid bond of subsidiaries		(100,000,000)		(-, <u>,</u> -
Exercise of subsidiary stock options		(14,580,500)		-
Acquisition of treasury stock		(249,702,866)		-
Conversion expense of redeemable convertible preferred stock to common stock		(9,768)		_
Transaction costs on issue of subsidiaries shares		(96,000)		_
Payment of lease liability principal		(9,401,156)		(8,998,284)
Not each flows provided by financing activities		6,558,247,525		5,306,808,594
Net cash flows provided by financing activities		0,000,247,020		3,300,000,394
Net increase in cash and cash equivalents		159,237,342		13,706,748
Effect from exchange rate changes on cash and cash equivalents		7,621,823		(4,428,076)
Cash and cash equivalents at the beginning of the year (Note 7)		999,735,338		990,456,666
Cash and cash equivalents at the end of the year (Note 7, 41)	₩	1,166,594,503	₩	999,735,338

Year ended

December 31, 2021

Year ended

December 31, 2020

1. Group information

Meritz Securities Co., Ltd. (the "Company") was established on February 24, 1973 under the name of Hanil Securities Co., Ltd. and primarily engages in the securities business including brokerage services, proprietary trading and underwriting of securities. The Company changed its name to Hanjin Investment Securities Co., Ltd. on October 1, 1990 and finally changed its name to Meritz Securities Co., Ltd. on March 1, 2000.

The Company merged its subsidiary, Meritz Investment Bank Co., Ltd. ("Meritz IB") on April 1, 2010. The Company is terminated allowance to engage in Meritz IB's businesses, which include various financial services related to the issuance of commercial papers, providing corporate loans and payment guarantees and other related services, on April 5, 2020 according to the *Act on the structural improvement of the financial industry*. Finally, the company renamed to Meritz Securities Co., Ltd on April 6, 2020.

The Company is allowed to engage in Meritz IB's businesses, which include various financial services related to the issuance of commercial papers, providing corporate loans and payment guarantees and other related services according to the *Financial Investment Services and Capital Markets Act*. The Company has been designated as a comprehensive financial investment business entity in November 2017 to engage in the credit offering business with corporates. The Company operates through a network of the main office and 8 domestic branches which involve sales departments and digital finance center.

The Company prepared consolidated financial statements of the Company and its subsidiaries (collectively referred to as the "Group") in accordance with K-IFRS 1110 *Consolidated Financial Statements* (see Note 2). Investments in associates and joint ventures are accounted for using the equity method in the consolidated financial statements.

The Company is listed on the Korea Exchange ("KRX"), and the major shareholders of the Company as of December 31, 2021 are as follows:

	Number of share	res (in shares)	Percentage of ownership (%)			
Shareholders	Common Stock	Preferred Stock	Common Stock	Preferred Stock		
Meritz Financial Group						
Inc. ("Meritz FG")	328,355,866 shares	-	48.17	-		
Cho Jeong Ho	6,424,646 shares	-	0.94	-		
Treasury stock	95,458,182 shares	-	14.00	-		
Others	251,491,885 shares	36,956,520 shares	36.89	100.00		
Total	681,730,579 shares	36,956,520 shares	100.00	100.00		

2. Scope of consolidation

	December 31, 2021						
Investee	Country	Ownership (%)	Company	Main Business	Type of control		
Meritz Capital Co., Ltd.	Korea	100.00	Financial business	Credit specialized financial business	Equity holding		
Kukje Active High Yield Private Investment Trust 3	Korea	95.82	Investment fund and trust	Investment in securities etc	Equity holding		
Anda H IPO high yield Private Securities Investment Trust 1[Hybrid-Bond] (Professional) (*)	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding		
Human Rainbow High Yield Specialized Private Investment Trust Fund (*)	Korea	96.65	Investment fund and trust	Investment in securities etc	Equity holding		
Yurie SPAC Plus IPO Private Investment Trust 1st	Korea	98.57	Investment fund and trust	Investment in securities etc	Equity holding		

		Ownership	_		
Investee	Country	(%)	Company	Main Business	Type of control
Olion IPO Multi Strategy Investment Trust 2nd	Korea	90.20	Investment fund and trust	Investment in securities etc	Equity holding
Olion IPO Multi Strategy Investment Trust 2nd C-I	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
Pharos Investment Private Trust 1st	Korea	57.10	Investment fund and trust	Investment in securities etc	Equity holding
Skywalk EXTENSION Private Investment Trust 2nd	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
Bros IPO Investment Private Trust 1st	Korea	100.00	Investment fund	Investment in securities etc	Equity holding
Kukje Active High Yield Private Investment Trust 2	Korea	96.03	Investment fund and trust	Investment in securities etc	Equity holding
Brain KOSDAQ Venture Investment Private Trust 2nd C-I	Korea	95.08	Investment fund and trust	Investment in securities etc	Equity holding
Mercury Kosdaq Venture 2	Korea	97.38	Investment fund and trust	Investment in securities etc	Equity holding
Global One KOSDAQ Venture Investment Private Trust 1st	Korea	97.05	Investment fund and trust	Investment in securities etc	Equity holding
Mercury Kosdaq Venture Private Fund No.1	Korea	100.00	Investment fund	Investment in securities etc	Equity holding
Kiwoom Milestone GRMC Investment Private Trust 1st	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
W KOSDAQ Venture(M) 2nd fund	Korea	99.99	Investment fund and trust	Investment in securities etc	Equity holding
SKYWALK ALPHA-X HEDGE FUND NO.1	Korea	80.68	Investment fund and trust	Investment in securities etc	Equity holding
Mercury IPO Konex HighYield Private Fund 5	Korea	99.50	Investment fund	Investment in securities etc	Equity holding
KGT high-yield IPO Private Investment Trust 2	Korea	98.04	Investment fund and trust	Investment in securities etc	Equity holding
Hize high-yield IPO Private Investment Trust 2	Korea	99.01	Investment fund and trust	Investment in securities etc	Equity holding
GG INVESTMENT IPO 2	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
IPARTNERS Prime private fund No.10	Korea	69.21	Investment fund and trust	Investment in securities etc	Equity holding
IPARTNERS Prime private fund No.10 Class C	Korea	71.35	Investment fund and trust	Investment in securities etc	Equity holding
RELAN HIGHYIELD FUND 1	Korea	99.01	Investment fund	Investment in securities etc	Equity holding
TIGER ALTERNATIVE INVESTMENT TRUST NO.10	Korea	98.49	Investment fund and trust	Investment in securities etc	Equity holding
Mountain IPO high-yield private equity investment trust	Korea	99.01	Investment fund and trust	Investment in securities etc	Equity holding
Araa high yield fund 1 C-S class	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
Tiger Alternative Investment Trust No. 31 by Nonghyup Bank as trustee	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
Melon High Private Securities Investment Trust 1	Korea	99.67	Investment fund and trust	Investment in securities etc	Equity holding
Blitz High-Yield MGreen Private Investment Trust (*)	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
TIMEFOLIO It's Time High-yield Hedge Fund	Korea	97.06	Investment fund and trust	Investment in securities etc	Equity holding
LX LQ I Hedge fund 1	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
OHA High Yield Private Securities Investment Trust 2	Korea	98.52	Investment fund and trust	Investment in securities etc	Equity holding
Brain IPO-High Yield Private Fund	Korea	70.42	Investment fund and trust	Investment in securities etc	Equity holding
Lion Blue HighYield Hedge fund 3rd	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
Moru Jang-in IPO Investment	Korea	74.59	Investment fund	Investment in securities	Equity holding
Trust(Private Placement) 2 KS High Yield Investment professional private investment	Korea	100.00	and trust Investment fund and trust	etc Investment in securities etc	Equity holding
trust 1 W High yield 2nd fund	Korea	98.52	Investment fund and trust	Investment in securities etc	Equity holding

Investee	Country	Ownership (%)	Company	Main Business	Type of control
Monnchase Galilei High Yield Hedge Fund	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
TIGER ALTERNATIVE INVESTMENT TRUST NO.17	Korea	89.32	Investment fund and trust	Investment in securities etc	Equity holding
PHAROS IPO High yield Professional Investor Private Investment Trust No.4	Korea	99.50	Investment fund and trust	Investment in securities etc	Equity holding
INMARK 必 High Yield IPO FUND	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
Vogo Alpha Plus IPO High-yield fund #3	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
My first asset high yield fund	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
CK Goldlocks High-Yield Fund 1	Korea	99.67	Investment fund and trust	Investment in securities etc	Equity holding
KFIN IPO focused High Yield Bond Private Fund 2nd	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
RootN High-Yield Investment Trust(Private Placement) 3	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
INMARK 必 Post IPO fund	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
JP Professional investment type private equity investment trust 12th	Korea	96.99	Investment fund and trust	Investment in securities etc	Equity holding
RootN Global Value-up Investment Trust(Private Placement) 1	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
Prophet Reach-Rich IPO Plus Qualified Private Asset Investment Trust	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
W KOSDAQ Venture(M) 4st Fund	Korea	80.00	Investment fund and trust	Investment in securities etc	Equity holding
Feynman High Yield IPO Private Balanced Fund	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
KAAM High Yield Hedge Fund 2	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
INMARK 必 KOSDAQ Venture Fund	Korea	61.73	Investment fund and trust	Investment in securities etc	Equity holding
Sprott High Yield Private Investment Trust No.1	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
PTR IPO High Yield Balanced I Fund	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
TERRAMONS IPO High yield FUND 1st	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
TERRAMONS IPO FUND 1st	Korea	97.09	Investment fund and trust	Investment in securities etc	Equity holding
Consus HighYield-IPO Private Fund(Balanced)	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
Prophet Reach-Rich Highyield Qualified Private Asset Investment Trust No. 3	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
LX LQ III KOSDAQ Venture Hedge fund 1	Korea	99.97	Investment fund and trust	Investment in securities etc	Equity holding
Vestas Qualified Private Real Estate Fund Investment Trust No.69-2[FoF]	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
The 2nd AP IPO Private Equity Fund	Korea	97.94	Investment fund and trust	Investment in securities etc	Equity holding
Human IPO General Private Investment Trust Fund 2	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
Kukje Active IPO Private Investment Trust 5	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
KOREIT IPO M Private Equity Fund No.1	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
Find No.1 KGT High Yield general Investors Private equity investment trust No. 3	Korea	99.34	Investment fund and trust	Investment in securities etc	Equity holding

Investee	Country	Ownership (%)	Company	Main Business	Type of control
Honors Highyield Funds 3	Korea	99.80	Investment fund and trust	Investment in securities etc	Equity holding
The 1st AP IPO High Yield Private Equity Fund	Korea	96.77	Investment fund and trust	Investment in securities etc	Equity holding
Nercury IPO & High Yield General Private Equity Investment Trust 6	Korea	97.56	Investment fund and trust	Investment in securities etc	Equity holding
GG private equity high-yield investment trust no.3	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
P High Yield Fund 14	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
tueen's Guard High yield General Private Investment Trust No. 4	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
Voori Altamira Trust	Korea	99.90	Investment fund and trust	Investment in securities etc	Equity holding
orean Alternative Investment Smart Education Investment Private Trust 1st	Korea	99.32	Investment fund and trust	Investment in securities etc	Equity holding
NMARK UK Private Real Estate Investment Trust 19-1	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
damas Venture Opportunities Fund LP	Cayman Islands	100.00	Investment fund and trust	Investment in securities etc	Equity holding
Senesis north America power company no.1 PEF	Korea	99.60	Investment fund and trust	Investment in securities etc	Equity holding
Genesis Úpstream, Co., Ltd.	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
iM Presidio, LLC	United States	100.00	Investment fund and trust	Investment in securities etc	Equity holding
residio Co-Investors A LLC	United States	100.00	Investment fund and trust	Investment in securities etc	Equity holding
outhlake Indiana LLC	United States	100.00	Investment fund and trust	Investment in securities etc	Equity holding
outhlake Mall	United States	100.00	Real estate rental business	Real estate lease	Equity holding
filestone India Professional Investor's Private Real Estate Investment Limited Liability Company	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
lilestone Private Placement Special Asset Investment Trust 1	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
amchully Midstream Private Placement Special Asset Fund 8	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
GIS U.S. SPECIALIZED PRIVATE INVESTMENT TRUST NO.401	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
IP Energy Infrastructure Specialized Privately Placed Fund Trust No.3	Korea	100.00	Investment fund and trust	Investment in securities etc	Equity holding
IS Securitization Specialty Co., Ltd.	Korea	0.00	Special purpose Company	Securitization of loans on real estates	General loan
ephyrus Co., Ltd.	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
H 1st, Co., Ltd.	Korea	0.00	Special purpose Company	Securitization of backed asset	General loan
1 Square Jungdong 3rd, Co., Ltd.	Korea	0.00	Special purpose Company	Securitization of loans on real estates	General loan
outh Lake 1st, Co., Ltd.	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
ICBH 1st, Co., Ltd.	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
JJ 2nd, Co., Ltd.	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
he Tempest Co.	Korea	0.00	Special purpose Company	Securitization of loans on real estates	General loan
Maplebay, Co., Ltd.	Korea	0.00	Special purpose Company	Securitization of securities on real estates	General loan
// Square M port 1st, Co., Ltd.	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment

GPI 6th, Co., Ltd. Korea O.00 Special purpose Company On real estates Securitization of loans On real estates Securitization of loans On real estates Securitization of loans On real estates Company On real estates	loan nent oan
SLT JanghangDaeto 1st, Co., Ltd. Korea 0.00 Special purpose Company On real estates Committe Company On real estates	nent oan oan
Company on real estates commitment of the property of the prop	oan
Cygnus 2nd, Co., Ltd. Korea O.00 Special purpose Company On real estates Securitization of loans Company on real estates	oan
Company on real estates	
	loon
M Square Jije Co., Ltd. Korea 0.00 Special purpose Securitization of loans Mortgage	IUall
Company on real estates commitm SLT Suseong, Co., Ltd. Korea 0.00 Special purpose Securitization of loans Mortgage	
Company on real estates commitment	nent
SLT Galsan, Co., Ltd. Korea 0.00 Special purpose Securitization of loans Mortgage Company on real estates commitre	
SLT Samseong, Co., Ltd. Korea 0.00 Special purpose Securitization of loans Mortgage	loan
Company on real estates commitm SLT Spare, Co., Ltd. Korea 0.00 Special purpose Securitization of loans General le	
Company on real estates	
SLT Jochon, Co., Ltd. Korea 0.00 Special purpose Securitization of loans General le Company on real estates	oan
Meri Milano, Co., Ltd. Korea 0.00 Special purpose Securitization of loans General le Company on real estates	oan
SLT Gurae 1st, Co., Ltd. Korea 0.00 Special purpose Securitization of loans Mortgage	loan
Company on real estates commitm SLT Shinhwa, Co., Ltd. Korea 0.00 Special purpose Securitization of loans General le	nent
Company on real estates	Jan
GPI11 Co., Ltd. Korea 0.00 Special purpose Securitization of loans General le Company on real estates	oan
GPI12 Co., Ltd. Korea 0.00 Special purpose Securitization of loans General le	oan
Company on real estates KSL 1st, Co., Ltd. Korea 0.00 Special purpose Securitization of loans General le	nan
Company on real estates	Jan
Grasslands 2nd, Co., Ltd. Korea 0.00 Special purpose Securitization of loans Mortgage Company on real estates commitmed	
Swipe 1st, Co., Ltd. Korea 0.00 Special purpose Securitization of loans General le	
Company on real estates GM The One, Co., Ltd. Korea 0.00 Special purpose Securitization of loans Mortgage	loan
Company on real estates commitments	nent
KSL 2nd, Co., Ltd. Korea 0.00 Special purpose Securitization of loans General le Company on real estates	oan
Vienna Rose, Co., Ltd. Korea 0.00 Special purpose Securitization of loans Mortgage	
Company on real estates commitm SLT Nonhyeon, Co., Ltd. Korea 0.00 Special purpose Securitization of loans Mortgage	
Company on real estates commitments	
Company on real estates commitments	nent
SLT Yangju, Co., Ltd. Korea 0.00 Special purpose Securitization of loans Mortgage Company on real estates commitre	
GM New York 1st, Co., Ltd. Korea 0.00 Special purpose Securitization of loans Mortgage	
VVertigo 1st, Co., Ltd. Korea 0.00 Special purpose Securitization of loans Mortgage	
Company on real estates commitment	nent
M Start 1st, Co., Ltd. Korea 0.00 Special purpose Securitization of General le Company backed asset	oan
SLT Believe 2nd, Co., Ltd. Korea 0.00 Special purpose Securitization of loans Mortgage	
JSM 1st, Co., Ltd. Korea 0.00 Special purpose Securitization of loans Mortgage	
Company on real estates commitments	nent
Classic Blue, Co., Ltd Korea 0.00 Special purpose Securitization of loans Mortgage Company on real estates commitre	
CHUNGLA WAVE 1ST, Co., Ltd Korea 0.00 Special purpose Securitization of loans Mortgage Company on real estates commitmed	
Saint Luis Co., Ltd Korea 0.00 Special purpose Securitization of loans Mortgage	
Company on real estates commitment	nent
Company on real estates commitment	
SH manchon No.1 Co., Ltd. Korea 0.00 Special purpose Securitization of loans Mortgage Company on real estates commitmed	
UJB 3th co., LTD Korea 0.00 Special purpose Securitization of loans Mortgage	loan
Company on real estates commitre	nent

Investee	Country	Ownership (%)	Company	Main Business	Type of control
GPI18 Co., Ltd.	Korea	0.00	Special purpose Company	Securitization of loans on real estates	General loan
Aoede 1st Co., Ltd	Korea	0.00	Special purpose Company	Securitization of backed asset	General loan
Mango Aloe 1st Co., Ltd	Korea	0.00	Special purpose Company	Securitization of backed asset	General loan
Gwangmyung Haan Tiamo Co., Ltd	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
Eco Grande Co., Ltd.	Korea	0.00	Special purpose Company	Securitization of backed asset	General loan
Cherryblossom 1st Co., Ltd	Korea	0.00	Special purpose Company	Securitization of backed asset	General loan
Msquare Shiwha 1st Co., Ltd.	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
GPI 17TH Co., Ltd	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
Hi-End CheongDam 522 Co., Ltd	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
SKY CASTLE 1st Co.,Ltd	Korea	0.00	Special purpose	Securitization of loans	Mortgage loan
GPI 19TH Co., Ltd	Korea	0.00	Company Special purpose	on real estates Securitization of loans	commitment Mortgage loan
Mseongnaedong 1st Co., Ltd	Korea	0.00	Company Special purpose	on real estates Securitization of loans	commitment Mortgage loan
HDBA 3th Co., Ltd.	Korea	0.00	Company Special purpose	on real estates Securitization of loans	commitment Mortgage loan
TIDBA 3til Go., Etd.	Norea	0.00	Company	on real estates	commitment
Great WangSan 2nd	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
Great WangSan 1st	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
Seocho Terracehill 1st	Korea	0.00	Special purpose	Securitization of loans	Mortgage loan
Global HBS	Korea	0.00	Company Special purpose Company	on real estates Securitization of loans on real estates	commitment Mortgage loan commitment
Ecodove	Korea	0.00	Special purpose	Securitization of loans	Mortgage loan
Hillstate Joongdong	Korea	0.00	Company Special purpose Company	on real estates Securitization of loans on real estates	commitment Mortgage loan commitment
Nice Supyo	Korea	0.00	Special purpose	Securitization of loans	Mortgage loan
SCOPER 1st Co.,Ltd.	Korea	0.00	Company Special purpose	on real estates Securitization of loans	commitment Mortgage loan
Katalyst 2nd Co., Ltd	Korea	0.00	Company Special purpose	on real estates Securitization of loans	commitment Mortgage loan
Doanfirst 1st Co., Ltd	Korea	0.00	Company Special purpose	on real estates Securitization of loans	commitment Mortgage loan
Doanfirst 2nd Co., Ltd	Korea	0.00	Company Special purpose	on real estates Securitization of loans	commitment Mortgage loan
M Osan 1st	Korea	0.00	Company Special purpose	on real estates Securitization of loans	commitment Mortgage loan
			Company	on real estates	commitment
GH Buldang 1st	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
Uyeon ost 1st	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
Uporia 6th., Co. Ltd	Korea	0.00	Special purpose Company	Securitization of backed asset	General loan
Project Ssangchon	Korea	0.00	Special purpose	Securitization of loans	Mortgage loan
CHUNGLA 2nd	Korea	0.00	Company Special purpose	on real estates Securitization of loans on real estates	commitment Mortgage loan commitment
Great Bandalseom 1st	Korea	0.00	Company Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment

Investee	Country	Ownership (%)	Company	Main Business	Type of control
Great Yeoksam 1st	Korea	0.00	Special purpose	Securitization of loans	General loan
HERRYSBILL 1ST CO.,LTD	Korea	0.00	Company Special purpose	on real estates Securitization of	General loan
CAVALLI 1ST CO.,LTD	Korea	0.00	Company Special purpose Company	backed asset Securitization of loans on real estates	General loan
COSMOFORE	Korea	0.00	Special purpose	Securitization of loans	Mortgage loan
00011000000			Company	on real estates	commitment
COSMOGREEN	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
M SQUARE OHCHANG	Korea	0.00	Special purpose	Securitization of loans	Mortgage loan
DAEGU BONRI FIRST	Korea	0.00	Company Special purpose	on real estates Securitization of loans	commitment Mortgage loan
			Company	on real estates	commitment
DAEGU BONRI SECOND	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
GREAT DAECHI 2nd	Korea	0.00	Special purpose	Securitization of loans	Mortgage loan
			Company	on real estates	commitment
GREAT DAECHI 1st	Korea	0.00	Special purpose Company	Securitization of loans on real estates	General loan
Suyoung Mangmi First	Korea	0.00	Special purpose	Securitization of loans	Mortgage loan
			Company	on real estates	commitment
Smart Hapchun	Korea	0.00	Special purpose Company	Securitization of loans on real estates	General loan
Smart Plus Corporation	Korea	0.00	Special purpose	Securitization of loans	Mortgage loan
			Company	on real estates	commitment
Nice wonho First Corporation	Korea	0.00	Special purpose	Securitization of loans	Mortgage loan
NICE ANHEUNG THE FIRST	Korea	0.00	Company	on real estates Securitization of loans	commitment
NICE ANNEOING THE FIRST	Korea	0.00	Special purpose Company	on real estates	Mortgage loan commitment
SMART HANNAM	Korea	0.00	Special purpose	Securitization of loans	Mortgage loan
Van an an Busin at 4 at	17	0.00	Company	on real estates	commitment
Yongsan Project 1st	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
GREAT EUMBONG 2nd	Korea	0.00	Special purpose	Securitization of loans	Mortgage loan
CDEAT FUNDONIC 4-4	V	0.00	Company	on real estates	commitment
GREAT EUMBONG 1st	Korea	0.00	Special purpose Company	Securitization of loans on real estates	General loan
The First HMS	Korea	0.00	Special purpose	Securitization of loans	Mortgage loan
NEO A GREEN	Korea	0.00	Company Special purpose	on real estates Securitization of loans	commitment Mortgage loan
NEO A GIVELIN	Norea	0.00	Company	on real estates	commitment
Oliveness 1st Co., Ltd	Korea	0.00	Special purpose	Securitization of	General loan
Cosmojoy Co., Ltd	Korea	0.00	Company Special purpose	backed asset Securitization of loans	Mortgage loan
			Company	on real estates	commitment
Gamma Story 1st	Korea	0.00	Special purpose Company	Securitization of loans on real estates	Mortgage loan commitment
Stark 1st Co., Ltd	Korea	0.00	Special purpose	Securitization of	General loan
Uporia 5th Co., Ltd	Korea	0.00	Company Special purpose	backed asset Securitization of loans	General loan
Opona our oo., Eta	Norca	0.00	Company	on real estates	Ocheral loan
TREES THE FIRST CO., LTD	Korea	0.00	Special purpose Company	Securitization of loans on real estates	General loan
Meritz Auto Seventh Securitization Specialty Co., Ltd.	Korea	0.00	Special purpose Company	Securitization of backed asset	ABS holding, a shareholder with the right of residuary
Meritz Auto Eighth Securitization Specialty Co., Ltd.	Korea	0.00	Special purpose Company	Securitization of backed asset	estate ABS holding, a shareholder with the right of residuary estate

^(*) The name of fund is changed from 'Koreit Separate Taxation High-Yield PE No.4' to 'Anda H IPO high yield Private Securities Investment Trust 1[Hybrid-Bond] (Professional)', from 'Sparx Separate Taxation High-Yield No.1' to 'Human Rainbow High Yield Specialized Private Investment Trust Fund 1st', from 'Koreit Highyield M Private Equity Fund' to 'Blitz High-Yield MGreen Private Investment Trust'

2.1.1. The entities included in or excluded from the scope of consolidation for the year ended December 31, 2021 are as follows:

Reason for Subsidiaries consolidation **RELAN HIGHYIELD FUND 1** (*1) Included in the consolidation (*1) TIGER ALTERNATIVE INVESTMENT TRUST NO.10 (*1) Mountain IPO high-yield private equity investment trust 1 (*1) Araa high yield fund 1 C-S class (*1) Tiger Alternative Investment Trust No. 31 by Nonghyup Bank as trustee (*1)Melon High Private Securities Investment Trust 1 (*1) Blitz High-Yield MGreen Private Investment Trust (*1) TIMEFOLIO It's Time High-yield Hedge Fund (C-1) (*1) LX LQ I Hedge fund 1 (*1) OHA High Yield Private Securities Investment Trust 2 (*1) Brain IPO-High Yield Private Fund 3 (*1) Lion Blue HighYield Hedge fund 3rd (*1) Moru Jang-in IPO Investment Trust(Private Placement) 2 (*1) KS High Yield Investment professional private investment trust 1 (*1) W High yield 2nd fund (*1) Monnchase Galilei High Yield Hedge Fund 1 (*1) TIGER ALTERNATIVE INVESTMENT TRUST NO.17 PHAROS IPO High yield Professional Investor Private Investment Trust (*1) No.4 (*1)INMARK 必 High Yield IPO FUND (*1) Vogo Alpha Plus IPO High-vield fund #3 (*1) My first asset high yield fund (*1)CK Goldlocks High-Yield Fund 1 (*1) KFIN IPO focused High Yield Bond Private Fund 2nd (*1) RootN High-Yield Investment Trust(Private Placement) 3 (*1) INMARK 必 Post IPO fund (*1)JP Professional investment type private equity investment trust 12th (*1)RootN Global Value-up Investment Trust(Private Placement) 1 (*1) Prophet Reach-Rich IPO Plus Qualified Private Asset Investment Trust Samchully Midstream Private Placement Special Asset Fund 8 (*1) IGIS U.S. SPECIALIZED PRIVATE INVESTMENT TRUST NO.401 (*1)(*1) W KOSDAQ Venture(M) 4st Fund (*1) Feynman High Yield IPO Private Balanced Fund (*1) KAAM High Yield Hedge Fund 2 (*1) INMARK 必 KOSDAQ Venture Fund (*1)Sprott High Yield Private Investment Trust No.1 (*1)PTR IPO High Yield Balanced I Fund (*1) TERRAMONS IPO High yield FUND 1st (*1)TERRAMONS IPO FUND 1st Consus HighYield-IPO Private Fund(Balanced) (*1) Prophet Reach-Rich Highyield Qualified Private Asset Investment Trust (*1) No. 3 (*1) LX LQ III KOSDAQ Venture Hedge fund 1 (*1) AIP Energy Infrastructure Specialized Privately Placed Fund Trust No.3 Vestas Qualified Private Real Estate Fund Investment Trust No.69-(*1)(*1) The 2nd AP IPO Private Equity Fund Human IPO General Private Investment Trust Fund 2 (*1)(*1)Kukje Active IPO Private Investment Trust 5 (*1) KOREIT IPO M Private Equity Fund No.1

KGT High Yield general Investors Private equity investment trust No. 3

(*1)

2.1.1. The entities included in or excluded from the scope of consolidation for the year ended December 31, 2021 are as follows: (cont'd)

Reason for consolidation Subsidiaries Included in the consolidation Honors Highyield Funds 3 (*1) (*1) (*1) (*1) (*1) (*1) The 1st AP IPO High Yield Private Equity Fund Mercury IPO & High Yield General Private Equity Investment Trust 6 GG private equity high-yield investment trust no.3 JP High Yield Fund 14 Queen's Guard High yield General Private Investment Trust No. 4
Great Wonchang First Corp (*2) (*2) JA7st (*2) (*2) (*2) (*2) (*2) (*2) (*2) Smart Mokok 1st Aoede 1st Co., Ltd Mango Aloe 1st Co., Ltd Gwangmyung Haan Tiamo Co., Ltd Eco Grande Co., Ltd. Terra Bridge Alpha 1st Terra Bridge Delta 1st Cherryblossom 1st Co., Ltd NICEPADONG FIRST CORPORATION Msquare Shiwha 1st Co., Ltd. GRÉAT ANSAN 1st GPI 17TH Co., Ltd NICE SEONHWA THE FIRST JEE-En Best the First Co., Ltd. Hi-End CheongDam 522 Co., Ltd Nice DoAn First SKY CASTLE 1st Co.,Ltd Lewest 3rd Lewest 4th Lewest 5th Lewest 6th GPI 19TH Co., Ltd Mseongnaedong 1st Co., Ltd Ecocamel Co., Ltd. HDBA 3th Co., Ltd. Great WangSan 1st Great WangSan 2nd The First AIM ABS NICE HYANGDONG FIRST CORPORATION Daegu Bondong 1st Seocho Terracehill 1st Global HBS Ecodove Hillstate Joongdong Nice Supyo SCOPER 1st Co.,Ltd. Katalyst 2nd Co., Ltd Doanfirst 1st Co., Ltd Doanfirst 2nd Co., Ltd Alpha Port 1 M Osan 1st GH Buldang 1st GH Buldang 2nd Uveon ost 1st Great Mapo 1st Uporia 6th., Co., Ltd Southlake Indiana LLC Southlake Mall **Project Ssangchon** CHUNGLA 2nd Great Bandalseom 1st Great Yeoksam 1st HERRYSBILL 1ST CO.,LTD CAVALLI 1ST CO.,LTD COSMOFORE COSMOGREEN M SQUARE OHCHANG DAEGU BONRI FIRST DAEGU BONRI SECOND

2.1.1. The entities included in or excluded from the scope of consolidation for the year ended December 31, 2021 are as follows: (cont'd)

NICE ANHEUI SMART HANN Yongsan Proje GREAT EUME GREAT EUME The First HMS NEO A GREE Oliveness 1st	tHI 1st gmi First n reporation rest Corporation NG THE FIRST IAM ect 1st BONG 2nd BONG 1st N Co., Ltd 1st Ltd 1st Ltd	consolidation (*2) (*2) (*2) (*2) (*2) (*2) (*2) (*2
Cosmojoy Co. Gamma Story Stark 1st Co., Uporia 5th Co.		(*2)
Excluded from the consolidation Human Investion B HAWKEYE SKYWALK ALI IGIS Global PI RREEF Spezia Owl Public offe Skywalk EXTE SPARX IPO P Kiwoom Milest IGIS Global PI Koreit KOSDA AIP Upstream LIFE IPO High Kiwoom New Z Nice Dongtan TCS 1st, Secu TCS 1st, Co., MS Dasa, Co. JYP, Securitiz DKY 1st, Co., Eessen 1st, Se HJ 9th, Co., Lt Msinepolis 3rd Uporia 1st Co. Nice chungyar DS Doahn Co. GyeongjuYong GPI 2nd, Co., YG Leaders 1: SLT Mokgam, SLT Eoyeon, C Just White, Cc Just Yellow, C Suseong Land Project Hyose RS Doahn Co. Great Woncha Smart Mokok WBRK Co., Lt MS Smart, Co Grasslands 1s M Dragon 1, C SLT Myeongg WECM1 Co., ITS The first Co.	ghth Securitization Specialty Co., Ltd. ment Trust E PRIVATE FUND 1 PHA-Q HEDGE FUND NO.1 ivate Real Estate Investment Trust 311 al Invest GmbH trust of security contract er Investment Private Trust 2nd iNSION Private Investment Trust 1st rivate Fund Trustee 3 one Europe Real Estate Investment Trust 304 Q Venture Investment Private Trust 2nd C-I Specialized Privately Placed Fund Trust #1 -yield Fund 1 Zealand Professional Private Trust 1 1st Co., Ltd. ritization Ltd. Ltd. action Ltd. gri 1st, Co., Ltd , Ltd gri 1st, Co., Ltd , Ltd. co., Ltd. co., Ltd. co., Ltd. co., Ltd. mark H, Co., Ltd. ong City 1st, Co., Ltd. , Ltd ing First Corp d, Ltd. to Co., Ltd.	(*2) (*2) (*3) (*3) (*3) (*3) (*3) (*3) (*3) (*3

2.1.1. The entities included in or excluded from the scope of consolidation for the year ended December 31, 2021 are as follows: (cont'd)

		Reason for
	Subsidiaries	consolidation
Excluded from the consolidation	MCP4 1ST, Co., Ltd	(*3)
	Ecobeer co., Itd	(*3)
	Terra Bridge Alpha 1st	(*3)
	Terra Bridge Delta 1st	(*3)
	NICEPADONG FIRST CORPORATION	(*3)
	GRREAT ANSAN 1st	(*3)
	NICE SEONHWA THE FIRST	(*3)
	Nice DoAn First	(*3)
	Lewest 3rd	(*3)
	Lewest 5th	(*3)
	Lewest 6th	(*3)
	Haeyoodong 1st, Co., Ltd.	(*3)
	M Square Sangam Co., Ltd.	(*3)
	GPI14 Co., Ltd.	(*3)
	M Square Haan 1st Co., Ltd.	(*3)
	GPI16 Co., Ltd.	(*3)
	Uporia 4th Co., Ltd	(*3)
	M Square Sosa Co., Ltd.	(*3)
	JA7st	(*3)
	JEE-En Best the First Co., Ltd.	(*3)
	Lewest 4th	(*3)
	Ecocamel Co., Ltd.	(*3)
	The First AIM ABS	(*3)
	NICE HYANGDONG FIRST CORPORATION	(*3)
	Daegu Bondong 1st	(*3)
	Alpha Port 1	(*3)
	GH Buldang 2nd	(*3)
	Great Mapo 1st	(*3)
	Meritz Auto Sixth Securitization Specialty Co., Ltd.	(*3)

- (*1) These are structured entities with the objective of raising capital from investors and allocating returns by investing in basic assets and are included in the consolidation scope, because the Group has existing rights to direct the relevant activities, and is not only exposed to variable returns, but also has the ability to use its power to affect the investees' returns.
- (*2) These are structured entities with the objective of investing in loans related to real estates and are included in the consolidation scope, because the Group has existing rights to direct the relevant activities, and is not only exposed to variable returns, but also has the ability to use its power to affect the investees' returns.
- (*3) The Group lost control of these entities due to liquidations, terminations of transactions, and decreases in equity ratios caused by redemptions of loans, the underlying asset.

2.1.2. Meritz Capital Co., Ltd

Meritz Capital Co., Ltd. was established on March 20, 2012 and engages in the instalment financing business, facilities leasing business since May 11, 2012 and the new technology financial business since December 22, 2014 in accordance with *Specialized Credit Finance Business Act*. The Company holds 100 % of common shares of Meritz Capital Co., Ltd. by a comprehensive stock exchange on April 28, 2017.

2.1.3. Kukje Active High Yield Private Investment Trust 3 and other 70 entities

Kukje Active High Yield Private Investment Trust 3 and other 70 entities are the collective investment vehicles that invest more than a certain percentage of funds in bonds including those with ratings of BBB+ or under in accordance with the related laws and regulations or invest initial public offering to make a profit.

2.1.3. Kukje Active High Yield Private Investment Trust 3 and other 70 entities (cont'd)

The acquisition dates and the percentage ownership of the Group are as follows:

Subsidiaries	Acquisition date	Ownership (%)
Kukje Active High Yield Private Investment Trust 3	2014-09-12	95.82
Anda H IPO high yield Private Securities Investment Trust 1[Hybrid-Bond] (Professional)	2014-10-27	100.00
Human Rainbow High Yield Specialized Private Investment Trust Fund 1	2015-12-02	96.65
Yurie SPAC Plus IPO Private Investment Trust 1st	2017-03-22	98.57
Olion IPO Multi Strategy Investment Trust 2nd	2017-03-22	90.20
Olion IPO Multi Strategy Investment Trust 2nd C-I	2017-03-22	100.00
Pharos Investment Private Trust 1st	2017-04-11	57.10
Skywalk EXTENSION Private Investment Trust 2nd	2017-09-11	100.00
Bros IPO Investment Private Trust 1st	2016-08-03	100.00
Kukje Active High Yield Private Investment Trust 2	2016-10-21	96.03
Brain KOSDAQ Venture Investment Private Trust 2nd C-I	2018-05-03	95.08
Mercury Kosdaq Venture 2	2018-07-25	97.38
Global One KOSDAQ Venture Investment Private Trust 1st	2018-07-25	97.05
Mercury Kosdaq Venture Private Fund No.1	2018-12-11	100.00
W KOSDAQ Venture(M) 2nd fund	2020-02-17	99.99
SKYWALK ALPHA-X HEDGE FUND NO.1	2020-06-15	80.68
Mercury IPO Konex HighYield Private Fund 5	2020-09-22	99.50
KGT high-yield IPO Private Investment Trust 2	2020-09-22	98.04
Hize high-yield IPO Private Investment Trust 2	2020-09-22	99.01
GG INVESTMENT IPO 2	2020-09-24	100.00
IPARTNERS Prime private fund No.10	2020-09-17	69.21
IPARTNERS Prime private fund No.10 Class C	2020-09-17	71.35
RELAN HIGHYIELD FUND 1	2021-02-05	99.01
TIGER ALTERNATIVE INVESTMENT TRUST NO.10	2021-02-05	98.49
Mountain IPO high-yield private equity investment trust	2021-02-05	99.01
Araa high yield fund 1 C-S class	2021-02-08	100.00
Melon High Private Securities Investment Trust 1	2021-02-16	99.67
Blitz High-Yield MGreen Private Investment Trust	2021-02-16	100.00
TIMEFOLIO It's Time High-yield Hedge Fund	2021-02-17	97.06
LX LQ I Hedge fund 1	2021-02-24	100.00
OHA High Yield Private Securities Investment Trust 2	2021-02-24	98.52
Brain IPO-High Yield Private Fund 3	2021-02-24	70.42
Lion Blue HighYield Hedge fund 3rd	2021-02-24	100.00
Moru Jang-in IPO Investment Trust(Private Placement) 2	2021-02-25	74.59
KS High Yield Investment professional private investment trust 1	2021-03-02	100.00
W High yield 2nd fund	2021-03-02	98.52
Monnchase Galilei High Yield Hedge Fund	2021-03-02	100.00
TIGER ALTERNATIVE INVESTMENT TRUST NO.17	2021-03-03	89.32
PHAROS IPO High yield Professional Investor Private Investment Trust	2021-04-16	99.50
No.4		
INMARK 必 High Yield IPO FUND	2021-04-16	100.00
Vogo Alpha Plus IPO High-yield fund #3	2021-04-16	100.00
My first asset high yield fund	2021-04-19	100.00
CK Goldlocks High-Yield Fund 1	2021-04-19	99.67
KFIN IPO focused High Yield Bond Private Fund 2nd	2021-04-19	100.00
RootN High-Yield Investment Trust(Private Placement) 3	2021-04-19	100.00
INMARK 必 Post IPO fund	2021-04-16	100.00
JP Professional investment type private equity investment trust 12th	2021-04-21	96.99
RootN Global Value-up Investment Trust(Private Placement) 1	2021-06-15	100.00
Prophet Reach-Rich IPO Plus Qualified Private Asset Investment Trust	2021-06-29	100.00
W KOSDAQ Venture(M) 4st Fund	2021-07-01	80.00
Feynman High Yield IPO Private Balanced Fund	2021-07-16	100.00
KAAM High Yield Hedge Fund 2	2021-08-06	100.00
INMARK 必 KOSDAQ Venture Fund	2021-09-06	61.73

2.1.3. Kukje Active High Yield Private Investment Trust 3 and other 70 entities (cont'd)

Subsidiaries	Acquisition date	Ownership (%)
Sprott High Yield Private Investment Trust No.1	2021-09-15	100.00
PTR IPO High Yield Balanced I Fund	2021-09-15	100.00
TERRAMONS IPO High yield FUND 1st	2021-09-15	100.00
TERRAMONS IPO FUND 1st	2021-09-15	97.09
Consus HighYield-IPO Private Fund(Balanced)	2021-09-16	100.00
Prophet reach-rich highyield qualified private asset investment trust No. 3	2021-09-16	100.00
LX LQ III KOSDAQ Venture Hedge fund 1	2021-07-20	99.97
The 2nd AP IPO Private Equity Fund	2021-11-30	97.94
Human IPO General Private Investment Trust Fund 2	2021-12-10	100.00
Kukje Active IPO Private Investment Trust 5	2021-12-10	100.00
KOREIT IPO M Private Equity Fund No.1	2021-12-10	100.00
KGT High Yield general Investors Private equity investment trust No. 3	2021-12-13	99.34
Honors Highyield Funds 3	2021-12-13	99.80
The 1st AP IPO High Yield Private Equity Fund	2021-12-13	96.77
Mercury IPO & High Yield General Private Equity Investment Trust 6	2021-12-14	97.56
GG private equity high-yield investment trust no.3	2021-12-14	100.00
JP High Yield Fund 14	2021-12-14	100.00
Queen's Guard High yield General Private Investment Trust No. 4	2021-12-14	100.00

2.1.4. Meritz Auto Seventh Securitization Specialty Co., Ltd and another entity

The company is established to securitize the financial lease asset of consolidated companies. The Group is a shareholder with the right for remaining assets, and holds all asset backed securities issued by an asset-backed company.

2.1.5. MS Securitization Specialty Co., Ltd and 104 structured entities

Structured entities enter into secured loan commitment contracts with the Group and they operate mortgage loans through issuing ABCP.

2.1.6. Kiwoom Milestone GRMC Investment Private Trust 1st

It is a collective investment organization, established on November 29, 2018, with the objective of creating revenue by investing in loans secured by accounts receivable. The Group owns 100% shares of the entity as of December 31, 2021.

2.1.7. Tiger Alternative Investment Trust No. 31 by Nonghyup Bank as trustee

It is a collective investment organization, established on February 9, 2021, with the objective of generating profits by re-indirect investment in funds in real estate located in major Asian countries. The Group owns 100% shares of the entity as of December 31, 2021.

2.1.8. Vestas Qualified Private Real Estate Fund Investment Trust No.69-2[FoF]

It is a collective investment organization, established on November 19, 2021, aimed at creating revenue by reindirect investment in funds in real estate located in major cities in the United States. The Group owns 100% shares of the entity as of December 31, 2021.

2.1.9. Woori Altamira Trust

It is a collective investment organization, established on August 29, 2018, with the objective of creating revenue by investing in housing mortgage loans in Hong Kong. The Group owns 99.9% shares of the entity as of December 31, 2021.

2.1.10. Korean Alternative Investment Smart Education Investment Private Trust 1st

It is a collective investment organization, established on October 11, 2018, with the objective of creating revenue by investing in private bonds for participation in gaining profit from facility deposit. The Group owns 99.32% shares of the entity as of December 31, 2021.

2.1.11. INMARK UK Private Real Estate Investment Trust 19-1

It is a collective investment organization, established on April 5, 2019, with the objective of creating revenue by investing in real estate mortgage bonds in London for participation in gaining profit from facility deposit. The Group owns 100% shares of the entity as of December 31, 2021.

2.1.12. Adamas Venture Opportunities Fund LP

It is a collective investment organization, established on May 6, 2019, with the objective of creating revenue by investing in REPO based on listed Indonesian stocks for participation in gaining profit. The Group owns 100% shares of the entity as of December 31, 2021.

2.1.13. Genesis North America power company no.1 PEF and other 3 entities

It is a collective investment organization with the objective of creating revenue by investing in bonds issued for acquisition of U.S oil and gas fields for participation in gaining profit from facility deposit. The Group owns 99.6% shares of the entity as of December 31, 2021.

2.1.14. Milestone India Private Real Estate Investment LLC

It is a collective investment organization, established on November 19, 2019, with the objective of creating revenue by investing in real estate mortgage bonds in India for participation in gaining profit from facility deposit. The Group owns 100% shares of the entity as of December 31, 2021.

2.1.15. Milestone Professional Investor's Private Real Estate Investment Limited Liability Company

It is a collective investment organization, established on January 14, 2020, with the objective of creating revenue by investing in coal mining company in Utah, United States. The Group owns 100% shares of the entity as of December 31, 2021.

2.1.16. Samchully Midstream Private Placement Special Asset Fund 8

It is a collective investment organization, established on April 28, 2021, with the objective of creating revenue by investing in Midstream Company that operates a gas collection and processing business produced in Permian base in North America. The Group owns 100% shares of the entity as of December 31, 2021.

2.1.17. IGIS U.S. Specialized private investment trust No.401

It is a collective investment organization, established on June 29, 2021, with the objective of creating revenue by investing in the office remodelling business in Manhattan, New York, USA. The Group owns 100% shares of the entity as of December 31, 2021.

2.1.18. AIP Energy Infrastructure Specialized Privately Placed Fund Trust No.3

It is a collective investment organization, established on August 30, 2021, with the objective of creating revenue by investing in hydraulic fracturing companies operating hydraulic fracturing facilities 2 fleets in Permian base, North America. The Group owns 100% shares of the entity as of December 31, 2021.

2.2. The summary of financial information in its consolidated subsidiaries as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	December 31, 2021						
						Operating	
Investee		Assets		Liabilities		revenue	Net income (loss)
Meritz Capital Co., Ltd.	₩	8,000,426,618	₩	6,811,444,277	₩	586,352,860	₩ 221,340,141
Kukje active high yield private investment trust 3		22,733,880		5,135		10,626,757	3,614,171
Anda H IPO high yield Private Securities Investment Trust 1[Hybrid-Bond] (Professional)		39,019,097		37,994		3,539,408	3,045,609
Human Rainbow High Yield Specialized Private Investment Trust Fund Yurie SPAC Plus IPO Private Investment Trust		29,316,247		15,970		4,854,800	4,136,609
1st		627,947		160		216,099	98,779
Olion IPO multi strategy investment trust 2nd C-I		10,852,531		1,065,556		1,797,649	1,164,324
Pharos Investment Private Trust 1st Skywalk EXTENSION Private Investment Trust		8,375,418		18,237		1,527,099	735,242
2nd		5,384,282		3,102		701,956	561,102
Bros IPO Investment Private Trust 1st Kukje Active High Yield Private Investment Trust		6,238,518		13,537		2,540,902	1,966,841
2		24,049,697		695		5,969,329	3,603,657
Brain KOSDAQ Venture Investment Private Trust 2nd C-I		07 400 447		000 740		00.040.070	5,148,795
Mercury Kosdaq Venture 2		27,130,147		863,743		23,612,876	, ,
Global One KOSDAQ Venture Investment		5,711,528		874,858		2,349,251	2,178,077
Private Trust 1st		4,163,084		604,498		1,740,117	1,465,530
Mercury Kosdaq Venture Private Fund No.1 Kiwoom Milestone GRMC Investment Private		6,972,575		1,362,023		2,499,662	1,879,451
Trust 1st		59,901,209		42,779		15,422,093	4,564,772
W KOSDAQ Venture(M) 2nd fund		9,245,136		611,381		2,170,832	1,029,978
SKYWALK ALPHA-X HEDGE FUND NO.1		12,188,169		8,617		11,090,973	4,445,453
Mercury IPO Konex HighYield Private Fund 5		3,147,948		47,148		2,565,358	2,242,199
KGT high-yield IPO Private Investment Trust 2		5,244,452		144,452		2,864,798	2,169,263
Hize high-yield IPO Private Investment Trust 2		10,648,123		548,123		2,903,538	2,289,808
GG INVESTMENT IPO 2		8,299,943		2,179		983,425	738,785
IPARTNERS Prime private fund No.10 Class C		6,142,159		1,893,271		1,910,712	912,427
RELAN HIGHYIELD FUND 1 TIGER ALTERNATIVE INVESTMENT TRUST		21,259,059		1,059,059		3,114,137	2,903,257
NO.10 Mountain IDO high yield private equity		20,893,181		585,872		2,647,438	2,253,230
Mountain IPO high-yield private equity investment trust		21,437,019		1,237,137		2,808,563	2,590,732
Araa high yield fund 1 C-S class		34,220,677		40,040		3,585,515	3,170,680
Tiger Alternative Investment Trust No. 31 by		01,220,011		10,010		0,000,010	0,170,000
Nonghyup Bank as trustee		2,000,610		111,780		129,427	(567,703)
Melon High Private Securities Investment Trust 1		31,287,425		1,187,426		2,908,025	2,539,179
Blitz High-Yield MGreen Private Investment Trust		39,638,854		77,375		2,451,868	2,105,292
TIMEFOLIO It's Time High-yield Hedge Fund		37,415,127		3,346,892		4,620,164	3,830,541
LX LQ I Hedge fund 1		12,434,094		11,254		1,250,631	1,172,840
OHA High Yield Private Securities Investment Trust 2		20,920,103		620,109		3,512,759	1,976,232
Brain IPO-High Yield Private Fund 3		15,477,643		1,276,391		1,707,435	1,127,143
Lion Blue HighYield Hedge fund 3rd Moru Jang-in IPO Investment Trust(Private		32,669,345		19,085		4,405,664	3,196,097
Placement) 2 KS High Yield Investment professional private		6,771,717		8,295		1,939,253	1,315,611
investment trust 1		20,508,659		508,659		1,723,327	1,344,763
W High yield 2nd fund Mannahasa Galilai High Yield Hadge Fund		21,318,237		1,018,237		2,666,219	2,380,167
Monnchase Galilei High Yield Hedge Fund TIGER ALTERNATIVE INVESTMENT TRUST NO.17		20,430,875		430,875		2,418,931	1,963,783 2,552,070
PHAROS IPO High yield Professional Investor Private Investment Trust No.4		6,856,774 20,678,609		1,258,874		2,818,955	2,552,070
Frivate investment trust NO.4		20,070,009		32,674		1,662,501	1,186,603

2.2. The summary of financial information in its consolidated subsidiaries as of December 31, 2021 and 2020 are as follows (in thousands of Korean won) (cont'd):

	December 31, 2021						
			Operating				
Investee	Assets	Liabilities	revenue	Net income (loss)			
INMARK 必 High Yield IPO FUND	₩ 21,131,863	₩ 562,009	₩ 1,576,060	₩ 1,079,466			
Vogo Alpha Plus IPO High-yield fund 3	20,892,739	41,467	1,411,572	1,129,551			
My first asset high yield fund	20,024,795	31,793	1,222,478	900,366			
CK Goldlocks High-Yield Fund 1 KFIN IPO focused High Yield Bond Private Fund	30,195,748	47,221	2,475,078	1,967,627			
2nd RootN High-Yield Investment Trust(Private	29,981,218	1,402	3,077,810	1,442,601			
Placement) 3 INMARK 必 Post IPO fund	29,982,764	1,271	2,509,516	2,049,760			
JP Professional investment type private equity	13,456,961	3,372,548	1,126,124	683,143			
investment trust 12th RootN Global Value-up Investment Trust(Private	10,604,986	95,170	2,408,050	2,142,170			
Placement) 1 Prophet Reach-Rich IPO Plus Qualified Private	5,294,142	2,962	358,905	291,180			
Asset Investment Trust	12,754,811	28,446	622,645	502,426			
W KOSDAQ Venture(M) 4st Fund Feynman High Yield IPO Private Balanced	7,381,724	381,444	421,187	351,921			
Fund	30,044,442	41,927	1,291,967	787,381			
KAAM High Yield Hedge Fund 2	39,972,911	2,155	3,233,351	1,023,664			
INMARK 必 KOSDAQ Venture Fund	8,422,075	7,214	347,798	314,861			
Sprott High Yield Private Investment Trust No.1	15,524,359	524,359	578,841	516,975			
PTR IPO High Yield Balanced I Fund	15,535,336	48,330	574,650	528,014			
TERRAMONS IPO High yield FUND 1st	10,755,896	456,489	500,704	403,884			
TERRAMONS IPO FUND 1st	14,543,531	543,531	588,647	536,206			
Consus HighYield-IPO Private Fund(Balanced)	22,992,378	1,210	759,723	684,254			
Prophet Reach-Rich Highyield Qualified Private Asset Investment Trust No. 3	22,946,490	1,676	1,013,711	900,111			
LX LQ III KOSDAQ Venture Hedge fund 1	3,145,968	8,206	236,439	136,762			
Vestas Qualified Private Real Estate Fund			·				
Investment Trust No.69-2[FoF]	3,075,789	17,651	17,918	263			
The 2nd AP IPO Private Equity Fund Human IPO General Private Investment Trust	10,209,992	12,222	7,060	(12,274)			
Fund 2	14,000,000	9,089	-	(9,089)			
Kukje Active IPO Private Investment Trust 5	10,008,804	7,390	8,804	1,415			
KOREIT IPO M Private Equity Fund No.1	7,508,902	4,643	8,902	4,259			
KGT High Yield general Investors Private equity investment trust No. 3	15,119,761	7,908	19,761	11,853			
Honors Highyield Funds 3	15,050,052	7,874	20,052	12,177			
The 1st AP IPO High Yield Private Equity Fund	15,500,195	426	195	(230)			
Mercury IPO & High Yield General Private Equity Investment Trust 6	20,521,355	7,638	21,355	13,718			
GG private equity high-yield investment trust							
no.3	30,000,567	631	567	(64)			
JP High Yield Fund 14	30,033,168	10,824	33,168	22,344			
Queen's Guard High yield General Private Investment Trust No. 4	30,025,816	12,506	25,816	13,310			
Southlake Indiana LLC	166,026,904	114,335,976	-	-			
MS Securitization Specialty Co., Ltd. And other	7 047 500 400	0 000 445 400	260 404 507	(EQ 40E 440)			
104 entities	7,947,530,123	8,209,115,493	360,104,567	(52,425,410)			

2.2. The summary of financial information in its consolidated subsidiaries as of December 31, 2021 and 2020 are as follows (in thousands of Korean won) (cont'd):

			December	31, 2020	
Investee	Assets		Liabilities	Operating revenue	Net income (loss)
Meritz Capital Co., Ltd RREEF Special Invest GmbH trust of	₩ 6,602,4	147,239	₹ 5,651,685,696	₩ 504,163,219	₩ 133,855,476
security contract Kukje Active High Yield Private	2,2	227,742	-	39,373	24,436
Investment Trust 3 Koreit Separate Taxation High-Yield PE	76,5	587,234	17,353	7,883,154	7,359,156
No.4 Sparx Separate Taxation High-Yield	7,2	271,031	3,831	1,038,419	920,149
No.1 Yurie SPAC Plus IPO Private	63,3	300,770	19,002	4,357,288	3,981,136
Investment Trust 1st Olion IPO Multi Strategy Investment	3,6	316,781	917	285,076	230,037
Trust 2nd C-I	4.2	235,242	305,895	212,431	132,675
Pharos Investment Private Trust 1st		501,812	16,019	2,555,231	1,328,560
Skywalk EXTENSION Private Investment Trust 2nd		246,211	1,868	182,921	
Bros IPO Investment Private Trust 1st		-	·	·	133,162
Human Investment Trust)56,727 220,133	7,500 3,768	679,566 883,995	569,055 776,232
Kukje Active High Yield Private	•	•	·		·
Investment Trust 2 Brain KOSDAQ Venture Investment		367,470	2,150	7,460,344	6,915,298
Private Trust 2nd C-I Koreit KOSDAQ Venture Investment	37,5	557,466	11,856,979	19,702,988	5,146,959
Private Trust 2nd C-I		393,969	24,542	6,380,809	895,464
Mercury Kosdaq Venture 2 Global One KOSDAQ Venture	4,3	334,661	21,792	1,623,362	687,728
Investment Private Trust 1st Owl Public offer Investment Private	4,2	269,177	607,868	5,205,683	5,109,693
Trust 2nd	3,7	716,210	8,492	1,092,657	1,021,836
Mercury Kosdaq Venture Private Fund no.1	6,4	147,770	793,537	1,170,418	900,290
Kiwoom Milestone GRMC Investment Private Trust 1st	60.0	26 000	1,847	15,436,773	2 070 502
Skywalk EXTENSION Private	60,0)36,888	1,047	15,430,773	3,870,502
Investment Trust 1st	4,9	971,621	7,392	167,750	102,880
W KOSDAQ Venture(M) 2nd Fund SKYWALK ALPHA-X HEDGE FUND	9,7	704,292	919,904	2,366,250	1,511,973
NO.1		78,434	86,927	6,033,167	4,880,387
DB HAWKEYE PRIVATE FUND 1 SPARX IPO Private Fund Trustee 3	14,4	148,558	7,662	979,143	883,156
(Equity Mixed) SKYWALK ALPHA-Q HEDGE FUND	1,0	33,569	1,300	129,158	25,255
NO.1 Mercury IPO Konex HighYield Private	3,0)86,453	4,697	103,443	82,972
Fund 5	22.1	193,570	1,293,570	1,340,529	1,189,312
Dareum IPO High-yield 1		227,343	986,726	1,204,448	1,122,012
KGT high-yield IPO Private Investment Trust 2 Hize high-yield IPO Private Investment	5,2	219,149	1,372	234,277	217,777
Trust 2	20.6	669,159	461,029	615,777	564,923
GG INVESTMENT IPO 2 IPARTNERS Prime private fund	·	700,194	164,239	713,466	595,955
No.10_Class c MS Securitization Specialty Co., Ltd.	6,2	246,491	1,925,117	198,150	121,375
And other 84 entities	4,013,9	968,796	4,168,939,424	331,943,009	(99,373,264)

3. Unconsolidated structured entities

3.1. Details of the nature of the Group's interests in unconsolidated structured entities as of December 31, 2021 are as follows:

	Purposes	Financing method	Controlling type
Asset-Backed Security SPC	Securitization of assets	Issuance of ABS /ABCP secured underlying assets	Purchase commitment, etc.
Real estate finance	Develop real estate and invest in social overhead capital facilities	Loan commitment, credit line commitment	Loan commitment, credit line commitment
Shipping finance and acceptance finance	Financing to acquire vessels and to raise fund for acquisition the ownership	Investment and borrowing	Loan commitment
Investment fund and trust	Investment in securities, etc.	Sales of beneficiary certificates, investment by general partners and limited partners	Holding beneficiary certificates, investment

3.2. Details of the Group's maximum exposure to loss from its interests in unconsolidated structured entities as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	December 31, 2021							
	Special purpose company		Real estate finance		Shipping finance and acceptance finance		Investment fund and trust	
Total assets of unconsolidated structured entities	₩	275,679,438	₩	10,529,878,827	W	1,855,816,527	₩	3,271,854,887
Assets:								
Loans receivable Securities	₩	57,833,333 1	₩	842,489,535 1,169,040,774	₩	425,975,401 -	₩	- 523,576,754
	₩	57,833,334	₩	2,011,530,309	₩	425,975,401	₩	523,576,754
Maximum exposure to loss: Holding assets ABCP purchase	₩	57,833,334	₩	2,011,530,309	₩	425,975,401	₩	523,576,754
commitment		5,000,000		-		-		-
Conditional securities acquisition arrangement Conditional		-		-		9,000,000		-
loan arrangement		-		-		-		-
Unexecuted brokers' loan Loan commitment		6,666,667 -		344,051,194 55,688,500		11,063,000		- -
Total	₩	69,500,001	₩	2,411,270,003	₩	446,038,401	₩	523,576,754

3.2. Details of the Group's maximum exposure to loss from its interests in unconsolidated structured entities as of December 31, 2021 and 2020 are as follows (in thousands of Korean won) (cont'd):

	December 31, 2020							
	Special purpose company		Real estate finance		Shipping finance and acceptance finance		Investment fund and trust	
Total assets of unconsolidated								
structured entities	₩	853,475,856	₩	6,908,712,933	₩	1,995,597,145	₩	5,420,358,089
Assets:								
Loans receivable Securities	₩	164,928,276 14,000,001	₩	917,123,322 188,446,840	₩	392,731,750	₩	- 1,599,762,132
	₩	178,928,277	₩	1,105,570,162	₩	392,731,750	₩	1,599,762,132
Maximum exposure to loss:								
Holding assets	₩	178,928,277	₩	1,105,570,162	₩	392,731,750	₩	1,599,762,132
ABCP purchase								
commitment		-		-		-		-
Conditional securities								
acquisition arrangement Conditional		-		-		-		-
loan arrangement		_		125,000,000		_		_
Unexecuted brokers' loan		-		567,766,939		10,280,000		-
Loan commitment		_		131,000,000		<u> </u>		54,450,000
Total	₩	178,928,277	₩	1,929,337,101	₩	403,011,750	₩	1,654,212,132

4. Summary of significant accounting policies

4.1. Basis of preparation

The Group prepares statutory financial statements in the Korean language in accordance with Korean International Financial Reporting Standards (K-IFRS) enacted by the *Act on External Audit of Stock Companies*. The accompanying consolidated financial statements have been translated into English from the Korean language financial statements. In the event of any differences in interpreting the financial statements or the independent auditors' report thereon, the Korean version, which is used for regulatory reporting purposes, shall prevail.

Significant accounting policies used to prepare the consolidated financial statements are as follows. These policies are equally applied to the consolidated financial statements for the years ended December 31, 2021 and 2020 except for standards which are effective for the annual periods beginning on or after January 1, 2021.

- Amendments to K-IFRS 1116 Lease – Practical expedient for COVID-19-Related Rent Exemption, Concessions, Suspension

As a practical expedient, a lessee may elect not to assess whether a rent concession occurring as a direct consequence of the COVID-19 pandemic is a lease modification. A lessee that makes this election shall account for any change in lease payments resulting from the rent concession the same way it would account for the change applying this Standard if the change were not a lease modification. This amendments should be applied for annual periods beginning on or after June 1, 2020, and earlier application is permitted. The Group expects the amendments to have no significant impact on its financial statements.

4.1. Basis of preparation (cont'd)

K-IFRS 1109 'Financial Instruments', 1039 Financial Instruments: Recognition and measurement, 1107
 Financial Instruments: Disclosure, 1104 Insurance Contracts, and 1116 Revision of Interest Rate Indicators

Regarding the reform of interest rate indicators, exceptions such as adjusting the effective interest rate, not the book amount, and allowing hedge accounting to continue without interruption even if interest rate indicators are replaced in the hedging relationship.

All over the world, reform of interest rate indicators is underway, including replacing interbank lending rates (the "IBOR") with other interest rates. As of the end of this period, the main interest rate exposed is USD LIBOR, JPY LIBOR and GBP LIBOR. The interest rate indicator to replace USD LIBOR is SOFR(Secured Overnight Financing Rate), JPY LIBOR is TONA(Tokyo Overnight Average Rate), GBP LIBOR is SONIA(Sterling Overnight Index Average), and the timing of the suspension of CD interest rates has not been determined, and they are considering phasing out with a grace period.

Consolidated companies expect that reform of interest rate indicators affects the operational and risk management procedures and hedge accounting of consolidated companies and to be mainly exposed to operational risks. For example, this includes the application of new alternative provisions with the other party to the derivatives contract, the renewal of contract conditions related to the reform of interest rate indicators, and modification of control.

Under the management of the risk management team, consolidated companies have established IBOR conversion plans consisting of major business sectors such as finance, accounting, tax, law, IT, and risk. The purpose of IBOR conversion management is to prepare and implement an action plan to understand where exposure to IBOR occurs within the business and to smoothly convert to alternative indicator interest rates. It subscribes to the derivatives ISDA protocol, develops an evaluation model to apply alternative interest rates, analyzes market risks and risks, updates the operating risk system, and continuous communication with counterparties to apply alternative interest rates.

Consolidated companies review the total amount of contracts that have not yet been converted to alternative indicator interest rates and the amount of contracts that contain appropriate alternative provisions to monitor the progress of converting from IBOR to new indicator interest rates.

As of the end of the this period, the total amount of contracts that have not been converted to alternative indicator interest rates is as follows, including products that expire before the suspension of IBOR interest rate calculation (Unit: Korean won in million).

Interest Rate Indicator (*)	(book value)			n-derivative cial liabilities ook value)	deriv s	vatives and vative-linked ecurities nated amount)	Off-balance sheet account (agreed amount)	
USD LIBOR	₩	460,268	₩	200,029	₩	1,958,403	₩	17,921
JPY LIBOR		-		-		7,624		-
GBP LIBOR		24.071		-		-		-

(*) As of the end of this period, contracts using CD interest rates have not been counted as the timing of the suspension of CD interest rates has not been determined, and they are considering phasing out with a grace period.

The Group has not early adopted any other standard, interpretation, or amendment that has been issued but is not yet effective.

4.1. Basis of preparation (cont'd)

Management of the Group is using many assumptions and reasonable estimates to create the consolidated financial statements on the basis of K-IFRS. In applying the accounting policies of the Group, the management's judgment is required under K-IFRS. Parts that require significant judgments and complexity or parts of which estimations and assumptions have significant impact on the preparation of the consolidated financial statements are disclosed in note 5.

The following amended standards have been published that are not mandatory for December 31, 2021 reporting periods and have not been early adopted by the Company.

- Amendments to Korean IFRS No. 1103 Business Combination – Reference to the Conceptual Framework

The amendments update a reference of definition of assets and liabilities to qualify for recognition in revised Conceptual Framework for Financial Reporting. However, the amendments add an exception for the recognition of liabilities and contingent liabilities within the scope of Korean IFRS No. 1037 *Provisions, Contingent Liabilities and Contingent Assets*, and Korean IFRS No. 2121 *Levies*. The amendments also confirm that contingent assets should not be recognized at the acquisition date. The amendments should be applied for annual periods beginning on or after January 1, 2022, and earlier application is permitted. The Company does not expect that these amendments have a significant impact on the separate financial statements.

- Amendments to Korean IFRS No. 1016 Property, Plant and Equipment – Proceeds before intended use

The amendments prohibit an entity from deducting from the cost of an item of property, plant and equipment any proceeds from selling items produced while the entity is preparing the asset for its intended use. Instead, the entity will recognize the proceeds from selling such items, and the costs of producing those items, as profit or loss. The amendments should be applied for annual periods beginning on or after January 1, 2022, and earlier application is permitted. The Company does not expect that these amendments have a significant impact on the separate financial statements.

- Amendments to Korean IFRS No. 1037 Provisions, Contingent Liabilities and Contingent Assets – Onerous Contracts: Cost of Fulfilling a Contract

The amendments clarify that the direct costs of fulfilling a contract include both the incremental costs of fulfilling the contract and an allocation of other costs directly related to fulfilling contracts when assessing whether the contract is onerous. The amendments should be applied for annual periods beginning on or after January 1, 2022, and earlier application is permitted. The Company does not expect that these amendments have a significant impact on the separate financial statements.

K-IFRS Annual leave improvement 2018-2020

K-IFRS Annual leave improvement 2018-2020 will be applied from the fiscal year starting on or after January 1, 2022 and will be applied early. Company expect the revision to have no significant impact on consolidated financial statements.

- -K-IFRS 1101: 'first-time adopters of K-IFRS'- Subsidiaries that are first-time adopters
- -K-IFRS 1109: 'Financial instrument'- fees related to 10% test for financial liabilities derecognition
- -K-IFRS 1116: 'Lease' Lease incentives
- Amendments to Korean IFRS No.1001 Presentation of Financial Statements Classification of Liabilities as Current or Non-current

The amendments clarify that liabilities are classified as either current or non-current, depending on the substantive rights that exist at the end of the reporting period. Classification is unaffected by the likelihood that an entity will exercise the right to defer settlement of the liability or the management's expectations thereof. Also, the settlement of liability includes the transfer of the entity's own equity instruments; however, it would be excluded if an option to settle the liability by the transfer of the entity's own equity instruments is recognized separately from the liability as an equity component of a compound financial instrument.

4.1. Basis of preparation (cont'd)

The amendments should be applied for annual periods beginning on or after January 1, 2023, and earlier application is permitted. The Company does not expect that these amendments have a significant impact on the separate financial statements.

Enactment of Korean IFRS No.1117 'Insurance Contract'

IFRS 1117 'Insurance Contract' will replace IFRS 1104 'Insurance Contract'. This standard estimates all cash flows under the insurance contract and uses a discount rate that reflects the assumptions and risks at the time of reporting, and recognizes income as accrual by reflecting the services (insurance coverage) provided to the contractor for each fiscal year.

In addition, investment factors (cancellation/expiration refund) paid to policyholders regardless of insurance cases are excluded from insurance income, and insurance gains and losses and investment gains and losses are separately marked so that information users can check the source of profits and losses. The standard will be applied from the fiscal year that begins for the first time after January 1, 2023, and companies applying IFRS 9 "financial instruments" are allowed to apply early. The Company does not expect that these enactment have a significant impact on the separate financial statements.

 Amendments to Korean IFRS No.1001 Presentation of Financial Statements – Accounting Policy Disclosure

The amendments require an entity to define and disclose their material accounting policy information. IFRS Practice Statement 2 Making Materiality Judgements was amended to explain and demonstrate how to apply the concept of materiality. The amendments should be applied for annual periods beginning on or after January 1, 2023, and earlier application is permitted. The Company does not expect that these amendments have a significant impact on the separate financial statements.

- Amendments to Korean IFRS No.1008 Accounting Policies, Changes in Accounting Estimates and Errors – Definition of Accounting Estimates

The amendments introduce the definition of accounting estimates and clarify how to distinguish changes in accounting estimates from changes in accounting policies. The amendments should be applied for annual periods beginning on or after January 1, 2023, and earlier application is permitted. The Company does not expect that these amendments have a significant impact on the separate financial statements.

- Amendments to Korean IFRS No.1012 Income Taxes – Deferred Tax Related to Assets and Liabilities Arising from a Single Transaction

The amendments include an additional condition to the exemption to initial recognition of an asset or liability that a transaction does not give rise to equal taxable and deductible temporary differences at the time of the transaction. The amendments should be applied for annual periods beginning on or after January 1, 2023, and earlier application is permitted. The Company does not expect that these amendments have a significant impact on the separate financial statements.

4.2. Principles of consolidation

4.2.1. Subsidiaries

Subsidiaries are fully consolidated from the date on which control is transferred to the Group. Subsidiaries are no longer consolidated from the date on which the Group loses control over them. Control is achieved where the Group has the power to govern the financial and operating policies of an entity so as to obtain the benefits from its activities. The Group consolidates special purpose entities if the substance of its relationship with them indicates that it has control over them. The Group considers the existence and influence of exercisable or convertible voting rights when evaluating its subsidiaries.

4.2.1. Subsidiaries (cont'd)

All significant intercompany transactions and account balances among consolidated companies are eliminated on consolidation. Unrealized gains or losses included in loans and borrowings arising from transactions between consolidated companies are eliminated on consolidation. The related accounts receivable and payable are also eliminated on consolidation. The accounting Policies of subsidiaries can be revised on consolidation in consistency policies the Group has adopted.

4.2.2. Non-controlling interests

Non-controlling interests must be presented in the consolidated statement of financial position within equity, separate from the equity of the owners of the parent. Total comprehensive income must be attributed to the owners of the parent and to the non-controlling interests even if this results in the non-controlling interests having a deficit balance.

Some puttable financial instruments or some financial instruments that impose on the entity an obligation to deliver to another party a pro rata share of the net assets of the entity only on liquidation are not accounted as the residual equity in consolidated financial statements, therefore, those non-controlling interests are classified as financial liabilities in the consolidated financial statement.

4.2.3. Investments in associates

Associates are the entities that the Group has significant effect on, but has no controlling power and the Group generally owned its equity in 20~50% of their shares with voting rights by the Group. The Group's consolidated financial statements reflects investment in an associate in using the equity method and the amount of Investment in an associate include goodwill which is acquisition cost less any accumulated impairment losses.

After acquiring shares of an associate, the Group's share of the current income (loss) of the associate is recognized as current income (loss) of the Group, and the Group's share of changes in the retained earnings of the associate is recognized as the retained earnings of the Group. If the Group's share of the loss of the associate is the same as or above the Group's investment interest including other plain bond of the associate, the Group no longer recognizes a loss unless the Group is liable for paying or has to pay the associate's debt.

When signs of damage are not aroused, the Group's share in the investee's unrealized profits and losses resulting from transactions between the Group and its investee are eliminated to the extent of the interest in the investee. And when necessary, adjustments are made to the financial statements of associates to bring their accounting policies in line with those used by the Group.

4.3. Operating segment reporting

Operating segments are disclosed in a manner consistent with the internal reporting provided to the chief operating decision maker. The chief operating decision maker is responsible for allocating resources and assessing the performance of the operating segments.

4.4. Foreign exchange

4.4.1. Functional currency

When preparing for the consolidated financial statements, the Group measures and recognizes all the transactions according to the functional currency, used to conduct operating activities in the primary economic environment. Consolidated Financial statements are expressed in Korean won.

4.4.2. 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 prevailing at the date of the transaction. Monetary assets and liabilities denominated in foreign currencies are retranslated at the functional currency rate of exchange prevailing at the reporting date and its exchange differences are recognized in net income for the period in which they arise. The Group applies a year-end exchange rate to non-monetary assets and liabilities measured at fair value in the consolidated statements of financial position. If valuation gain or loss on fair value is recognized as current income, foreign currency translation gain or loss is recognized in current income. If valuation gain or loss on non-monetary items is recognized in other comprehensive income, foreign currency translation gain or loss is recognized in other comprehensive income. Non-monetary items not measured at fair value are translated using the exchange rates as of the date of the initial transaction and have no exchange differences.

Exchange differences on monetary items receivable from or payable to a foreign operation for which settlement is neither planned nor likely to occur in the predictable future (therefore forming part of the net investment in the foreign operation), are recognized initially in other comprehensive income and reclassified from equity to net income on disposal or partial disposal of the net investment.

4.4.3. Translation of the Group's foreign operation

As of the reporting date, the assets and liabilities of subsidiaries are translated into the Group's presentation currency, Korean won (KRW), at the rate of exchange as of the reporting date, and their statements of profit or loss and other comprehensive income are translated at the weighted average exchange rates for the year. Exchange differences arising on translation are taken directly to a separate component of equity.

4.5. Cash and cash equivalents

Cash and short-term deposits in the statement of financial position comprise cash at banks and on hand and short-term deposits with an original maturity of three months or less.

4.6. Financial instruments - initial recognition and subsequent measurement

A financial instrument is any contract that gives rise to a financial asset of one entity and a financial liability or equity instrument of another entity.

4.6.1. Financial instruments – Initial recognition and measurement

Financial assets are classified, at initial recognition, as subsequently measured at amortized cost, fair value through other comprehensive income (OCI), and fair value through profit or loss.

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. With the exception of trade receivables that do not contain a significant financing component or for which the Group has applied the practical expedient, the Group initially measures a financial asset at its fair value plus, in the case of a financial asset not at fair value through profit or loss, transaction costs. Trade receivables that do not contain a significant financing component or for which the Group has applied the practical expedient are measured at the transaction price determined under K-IFRS 1115.

In order for a financial asset to be classified and measured at amortized cost or fair value through OCI, it needs to give rise to cash flows that are 'solely payments of principal and interest (SPPI)' on the principal amount outstanding. This assessment is referred to as the SPPI test and is performed at an instrument level.

The Group's business model for managing financial assets refers to how it manages its financial assets in order to generate cash flows. The business model determines whether cash flows will result from collecting contractual cash flows, selling the financial assets, or both.

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.

4.6.2. Subsequent measurement

For purposes of subsequent measurement, financial assets are classified in four categories:

- Financial assets at amortized cost (debt instruments)
- Financial assets at fair value through OCI with recycling of cumulative gains and losses (debt instruments)
- Financial assets designated at fair value through OCI with no recycling of cumulative gains and losses upon derecognition
- Financial assets at fair value through profit or loss

4.6.2.1. Financial assets at amortized cost (debt instruments)

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

- The financial asset is held within a business model with the objective to hold financial assets in order to collect contractual cash flows and
- 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 (EIR) method and are subject to impairment. Gains and losses are recognized in profit or loss when the asset is derecognized, modified or impaired.

4.6.2.2. Financial assets at fair value through OCI (debt instruments)

The Group measures debt instruments at fair value through OCI if both of the following conditions are met:

- The financial asset is held within a business model with the objective of both holding to collect contractual cash flows and selling
 And
- 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

For debt instruments at fair value through OCI, interest income, foreign exchange revaluation and impairment losses or reversals are recognized in the 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.

4.6.2.3. Financial assets designated at fair value through OCI (equity instruments)

Upon initial recognition, the Group can elect to classify irrevocably its equity investments as equity instruments designated at fair value through OCI when they meet the definition of equity under K-IFRS 1032 Financial Instruments: Presentation and are not held for trading. The classification is determined on an instrument-by-instrument basis.

Gains and losses on these financial assets are never recycled to profit or loss. Dividends are recognized as other income in the statement of profit or loss when the right of payment has been established, except when the Group benefits from such proceeds as a recovery of part of the cost of the financial asset, in which case, such gains are recorded in OCI. Equity instruments designated at fair value through OCI are not subject to impairment assessment.

4.6.2.4. Financial assets at fair value through profit or loss

Financial assets at fair value through profit or loss include financial assets held for trading and financial assets designated upon initial recognition at fair value through profit or loss. Financial assets are classified as held for trading if they are acquired for the purpose of selling or repurchasing in the near term. Derivatives, including separated embedded derivatives, are also classified as held for trading unless they are designated as effective hedging instruments. Financial assets with cash flows that are not solely payments of principal and interest are classified and measured at fair value through profit or loss, irrespective of the business model. Notwithstanding the criteria for debt instruments to be classified at amortized cost or at fair value through OCI, as described

4.6.2.4. Financial assets at fair value through profit or loss (cont'd)

Above, debt instruments may be designated at fair value through profit or loss on initial recognition if doing so eliminates, or significantly reduces, an accounting mismatch.

Financial assets at fair value through profit or loss are carried in the statement of financial position at fair value with net changes in fair value recognized in the statement of profit or loss.

This category includes derivatives and equity instruments that do not make an irrevocable choice to treat changes in fair value through other comprehensive income.

A derivative embedded within a hybrid contract containing a financial asset host is not accounted for separately. The financial asset host together with the embedded derivative is required to be classified in its entirety as a financial asset at fair value through profit or loss.

4.6.3. Derecognition

A financial asset (or, where applicable, a part of a financial asset or part of a group of similar financial assets) is primarily derecognized (i.e., removed from the Group's consolidated statement of financial position) when:

- The rights to receive cash flows from the asset have expired, or
- The Group has transferred its rights to receive cash flows from the asset or has assumed an obligation to pay the received cash flows in full without material delay to a third party under a 'pass-through' arrangement; and either (a) the Group has transferred substantially all the risks and rewards of the asset, or (b) the Group has neither transferred nor retained substantially all the risks and rewards of the asset, but has transferred control of the asset

When the Group has transferred its rights to receive cash flows from an asset or has entered into a pass-through arrangement, it evaluates if, and to what extent, it has retained the risks and rewards of ownership. When it has neither transferred nor retained substantially all of the risks and rewards of the asset, nor transferred control of the asset, the Group continues to recognize the transferred asset to the extent of its continuing involvement. In that case, the Group also recognizes an associated liability. The transferred asset and the associated liability are measured on a basis that reflects the rights and obligations that the Group has retained.

Continuing involvement that takes the form of a guarantee over the transferred asset is measured at the lower of the original carrying amount of the asset and the maximum amount of consideration that the Group could be required to repay.

4.6.4. Impairment of financial assets

The Group recognizes an allowance for expected credit losses (ECLs) for all debt instruments not held at fair value through profit or loss. ECLs are based on the difference between the contractual cash flows due in accordance with the contract and all the cash flows that the Group expects to receive, discounted at an approximation of the original effective interest rate. The expected cash flows will include cash flows from the sale of collateral held or other credit enhancements that are integral to the contractual terms.

ECLs are recognized in two stages. For credit exposures for which there has not been a significant increase in credit risk since initial recognition, ECLs are provided for credit losses that result from default events that are possible within the next 12-months (a 12-month ECL). For those credit exposures for which there has been a significant increase in credit risk since initial recognition, a loss allowance is required for credit losses expected over the remaining life of the exposure, irrespective of the timing of the default (a lifetime ECL).

4.7. Regular way trades

Equity securities, debt securities, derivatives, which are traded in the KRX or qualified foreign exchange markets, are treated as regular way trades. The Group's specific accounting policies about regular way trades are described below.

4.7.1. Proprietary trading

As for proprietary trading, purchase or sale of the asset that require delivery of assets within a time frame established by regulation or convention in the marketplace are recognized or derecognized on the trading date.

4.7.2. Trading on consignment

As for trading on consignment, the Group serves a clientele of investors who trade public stocks and other securities and recognizes the brokerage fees on the trading date. Until the settlement date of the trading on consignment, the Group does not offset the receivables and payables to customers and offsets the receivables and payables to the KRX.

4.8. Derivative financial instruments and hedge accounting

Derivatives instruments are initially recognized at fair value on the contract date and are subsequently revalued at their fair value. Derivative instruments are accounted differently depending on whether hedge accounting is applied, and therefore, are classified into trading purpose derivatives and hedging purpose derivatives. In a hedge relationship, when a hedge item is any asset, liability or unrecognized fixed contract, which is exposed at the possibility that its some or entire fair value is fluctuated by the specified risks, fair value hedge accounting is applied. In another way, when a hedge item is any asset, liability or expected highly probable transaction, which is exposed at the possibility that its cash flow is fluctuated by the specified risk, cash flow hedge accounting is applied. For trading purpose derivative transaction, changes in the fair value of derivatives are recognized in net income.

At the inception of the hedge relationship, the Group formally documents the relationship between the hedged item and the hedging instrument, including the nature of the risk, the objective and strategy for undertaking the hedge and the method that will be used to assess the effectiveness of the hedging relationship. Also, at the inception of the hedge relationship, a formal assessment is undertaken to ensure that the hedging instrument is expected to be highly effective in offsetting the designated risk in the hedged item and the actual result.

4.8.1. Fair value hedges

The change in the fair value of an interest rate hedging derivative is recognized in finance costs in the statement of comprehensive income. The change in the fair value of the hedged item attributable to the risk hedged is recorded as a part of the carrying value of the hedged item and is also recognized in finance costs in the statement of comprehensive income.

For fair value hedges relating to items carried at amortized cost, any adjustment to carrying value is amortized through the statement of comprehensive income over the remaining term up to maturity. Effective interest rate amortization may begin as soon as an adjustment exists and shall begin no later than when the hedged item ceases to be adjusted for changes in its fair value attributable to the risk being hedged.

When an unrecognized firm commitment is designated as a hedged item, the subsequent cumulative change in the fair value of the firm commitment attributable to the hedged risk is recognized as an asset or liability with a corresponding gain or loss recognized in the statement of comprehensive income.

4.8.2. Cash flow hedges

The effective portion of the gain or loss on the hedging instrument is recognized directly as other comprehensive income in the cash flow hedge reserve, while any ineffective portion is recognized immediately in finance costs in the statement of comprehensive income.

4.8.2. Cash flow hedges (cont'd)

Amounts recognized as other comprehensive income are transferred to the statement of comprehensive income when the hedged transaction affects profit or loss, such as when the hedged financial income or financial expense is recognized or when a forecast sale occurs. When the hedged item is the cost of a non-financial asset or non-financial liability, the amounts recognized as other comprehensive income are transferred to the initial carrying amount of the nonfinancial asset or liability.

If the forecast transaction or firm commitment is no longer expected to occur, the cumulative gain or loss previously recognized in equity are transferred to the statement of comprehensive income. If the hedging instrument expires or is sold, terminated or exercised without replacement or rollover, or if its designation as a hedge is revoked, any cumulative gain or loss previously recognized in other comprehensive income remains in other comprehensive income until the forecast transaction or firm commitment affects profit or loss.

4.8.3. Embedded derivatives

Derivatives embedded in other financial instruments or other host contracts are treated as separate derivatives. When their risks and characteristics are not closely related to those of the host contracts and the host contracts are not measured by fair value through profit or loss.

4.9. 'Day 1' profit or loss recognition

When the transaction price is different from the fair value of other observable current market transactions in the same instrument or based on a valuation technique whose variables include only data from observable markets, the Group immediately recognizes the differences between the transaction price and fair value (a 'Day 1' profit or loss) in 'net trading income'.

In case where fair value is determined using data which is not observable, the difference between the transaction price and model value is deferred and amortized over the life of the associated instrument using the straight-line method.

4.10. Interest income and interest expense

The Group recognizes interest income and interest expense using the effective interest rate method on an accrual basis. When a financial instrument bearing interest is impaired, the Group reduces the carrying amount to its recoverable amount, being the estimated future cash flows discounted at its original effective interest rate of the instrument, and continues unwinding the discount as interest income.

4.11. Fees and commission revenue

The Group generates fees and commission is from a wide range of services provided to the counterparty. Fees and commission revenue is recognized for the transfer of promised goods or services to customers at an amount that reflects the consideration to which the Group expects to be entitled in exchange for those goods or services. In accordance with the 5 step revenue recognition model below. However, fees and commission which are part of the effective interest on the financial instrument, are recognized by the effective interest rate method.

- Step 1: Identify the contracts with a customer
- Step 2: Identify performance obligations in the contract
- Step 3: Determine the transaction price
- Step 4: Allocate the transaction price to the performance obligations in the contract
- Step 5: Recognize revenue when (or as) the entity satisfies a performance obligation (or as they are satisfied over time)

4.12. Dividend income

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

4.13. Bonds purchased under resale agreements and bonds sold under repurchase agreements

Securities purchased under agreements to resell at a specified future date ("reverse repos") are recorded in the statement of financial position as bonds purchased under repurchase agreements in the other loans. Conversely, securities sold under agreements to repurchase at a specified future date ("repos") are recorded in the statement of financial position as bonds sold under repurchase agreements in the other borrowing liabilities. Interest income and expense incurred from reverse repo and repo transactions are recorded as interest income on loan and interest expense on borrowings, respectively in the statement of comprehensive income.

4.14. Property and equipment

Property and equipment is stated at cost including transaction costs, less accumulated depreciation and accumulated impairment in value. Changes in the expected useful life are accounted for by changing the amortization period or method, as appropriate, and treated as changes in accounting estimates.

Depreciation is calculated on a straight-line basis over the estimated useful life of the asset. Land is not depreciated. The estimated useful lives are as follows:

	Useful life (years)
Buildings	40
Vehicles	4
Furniture and fixtures	4
Right-of-use assets	Lease commencement date ~ Lease end date

Property and equipment is derecognized on disposal or when no future economic benefits are expected from its use. 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 recognized in 'Other operating income' in the statement of comprehensive income in the year the asset is derecognized.

4.15. Investment properties

Investment properties are measured initially at cost, including transaction costs. Subsequent to initial recognition, investment properties are measured at depreciated cost.

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 through profit or loss in the period of derecognition. And transfers are made to or from investment property only when there is a change in use.

While land is not depreciated, buildings are depreciated based on the depreciation method and useful lives of tangible assets (buildings). The estimated useful lives and residual values and depreciation method are reviewed at the end of each reporting period, and when it is deemed appropriate to change them, the effect of any change is accounted for as a change in accounting estimates.

4.16. Intangible assets

4.16.1. Software

Software acquired separately are measured on initial recognition at cost. The software with finite lives are carried at cost less any accumulated amortization. Amortization is calculated on a straight-line basis over the estimated useful life of the asset.

4.16.2. Intangible assets with indefinite useful lives

Intangible assets with indefinite useful lives are not amortized, but are annually tested for impairment. The assessment of indefinite life is reviewed annually to determine whether the indefinite life continues to be supportable. If not, the change in useful life from indefinite to finite is made on a prospective basis.

4.17. Impairment of non-financial assets

The Group assesses at each reporting date whether there is an indication that an asset may be impaired. If indication exists, or when annual impairment testing for an asset is required, the Group estimates the assets recoverable amount. An asset's recoverable amount is the higher of an asset's or cash-generating unit's ("CGU") fair value less costs to sell and its value in use. When the carrying amount of an asset or CGU exceeds its recoverable amount, the asset is considered impaired and is written down to its recoverable amount.

After recognition of the impairment of non-financial assets, if there is a change in the assumptions used to determine the asset's recoverable amount, a previously recognized impairment loss is reversed. The reversal is limited so that the carrying amount of the asset does not exceed its recoverable amount, nor exceeds the carrying amount that would have been determined, net of depreciation, had no impairment loss been recognized for the asset in prior years.

After application of the equity method, the Group determines whether it is necessary to recognize an additional impairment loss on the Group's investment in its associates. The Group determines at each reporting date whether there is any objective evidence that the investment in the associate is impaired. If this is the case the Group calculates the amount of impairment as the difference between the recoverable amount of the associate and its carrying value and recognizes the amount in the statement of comprehensive income.

4.18. Lease

In exchange for consideration in the contract, if the control over the use of the identified asset is transferred for a period of time, the contract is a lease or includes a lease.

Lessee

At the date of the agreement or the effective date of the modification containing the lease element, the Group allocates the consideration of the contract to each lease element on the basis of its relative stand-alone price. The Group accounts for the non-lease element related to the lease element as a single lease element by applying practical expedient that does not separate the non-lease element for real estate leases.

The Group recognizes the right-of-use asset and the lease liability at the commencement date of the lease. The right-of-use asset is measured at cost, which comprises the amount of the initial measurement of the lease liability, lease payments made at or before the commencement date (less any lease incentives received), initial direct costs, and an estimate of costs to be incurred by the lessee in dismantling and removing the underlying asset, restoring the site on which it is located.

The right-of-use asset is subsequently depreciated on a straight-line basis from the commencement of the lease to the end of the lease term. However, if the lessor transfers the ownership of the underlying asset to the lessee by the end of the lease term or if the cost of the right-of-use asset reflects that the lessee will exercise a purchase option, the lessee depreciates the right-of-use same as a fixed asset from the commencement date to the end of the useful life of the underlying asset. The right-of-use asset may be reduced by an impairment of the underlying asset of adjusted by remeasurement of the lease liability.

The lease liability is initially measured at the present value of the lease payments that are not paid at that date. The lease payments are discounted using the interest rate implicit in the lease, if that cannot be readily determined, the Group uses its incremental borrowing rate. The Group generally uses the incremental borrowing rate.

The lease payments included in the measurement of the lease liability comprise the following:

- Fixed payments (including in-substance fixed payments)
- Variable lease payments that depend on an index(or a rate), initially measured using the index or rate
 as at the commencement date

4.18. Lease (cont'd)

- Amounts expected to be payable by the lessee under residual value guarantees
- The exercise price of a purchase option if the lessee is reasonably certain to exercise extension option, and payments of penalties for terminating the lease, if the lease term reflects the lessee exercising an option to terminated the lease

Lease liabilities are amortized using the effective interest method. The lease liability is remeasured if the future lease payments change depending on changes in the index(or a rate), changes in the expected amount to be paid under the residual value guarantee, and changes in the assessment of whether the purchase or extension option is reasonably certain to be exercised or not to exercise the terminate option.

When remeasuring a lease liability, the related right-of-use asset is adjusted and if the carrying amount of the right-of-use asset decreases to zero (0), the remeasurement amount is recognized in profit or loss.

In the statement of financial position, the Group classified the lease liabilities that do not meet the definition of investment property as 'other financial liabilities.

The Group has chosen a practical expedient that does not recognize the right-of-use asset and lease liabilities for short-term lease with leases with a lease term less than 12 months and leases for which the underlying asset is of low value. The Group recognizes the lease payments associated with those leases as an expense on a straight-line basis over the lease term.

4.19. Employee benefits

4.19.1. Short-term employee benefits

The Group recognizes the undiscounted amount of short-term employee benefits expected to be paid in exchange for the services rendered by the employees. Also, short-term employee benefits to be paid within 12 months from the end of the reporting period are recognized in profit or loss.

4.19.2. Retirement benefits

Defined benefit pension plans

The Group classifies all pension plans under defined benefit pension plans ("DB plan") except for pension plans under the defined contribution pension plan ("DC plan"). The retirement benefit liabilities recognized in the consolidated statements of financial position represents the present value of the defined benefit obligation reduced by the fair value of plan assets.

The cost of providing benefits under the defined benefit plan is determined using the projected unit credit method by an independent actuary. The present value of defined benefit obligation is computed by discounting expected future cash outflows with market rate of return measured against the yield of high-graded corporate bond whose date of payment and maturity is similar to that of a defined benefit obligation. Actuarial gains and losses, incurred from the change in actuarial assumptions and the difference between the assumptions and the actual results, are recognized in other comprehensive income for the period.

If the calculated net value is an asset when the fair value of plan assets is deducted from the present value of defined benefit liabilities, the asset is recognized up to accumulated unrealized past service cost and the present value of an economic benefit available in the form of a refund from the pension plan or a saving of future contributions.

Unrecognized prior service cost, a change in the present value of defined benefit pension plan for employees' past services which is incurred by introduction or changes of severance payment, is immediately recognized in current expense for the period in which it arises.

Defined contribution pension plans

As the Group operates a DC plan, the amount of contribution that the Group has to pay is recognized as the employee benefit expense.

4.20. Income tax expenses and deferred tax assets and liabilities

Income taxes comprise of current and deferred taxes. All items related to taxes, other than those recognized directly in equity, are accounted for in the statement of comprehensive income. Accordingly, items recognized directly in equity and the related income taxes are accounted for in the 'Other operating income'.

The tax rates and tax laws used to compute the amount are those that are enacted or substantively enacted by the reporting date. If the applied tax laws require an interpretation, the Group calculates income tax payable expected to be paid to the taxation authorities based on the opinion made when the taxes were reported.

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. Deferred liabilities are recognized for all taxable temporary differences, except:

When the deferred tax liability arises from the initial recognition of goodwill or of an asset or liability in a transaction that is not a business combination and, at the time of the transaction, affects neither the accounting profit nor taxable profit loss.

In respect of taxable temporary differences associated with investments in subsidiaries, where the timing of the reversal of the temporary differences can be controlled and it is probable that the temporary differences will not reverse in the foreseeable future.

Deferred tax assets and deferred tax liabilities are offset if a legally enforceable right exists to set off current tax assets against current tax liabilities and the deferred taxes relate to the same taxable entity and the same taxation authority.

4.21. Recognition and measurement of financial liabilities

Financial liabilities are classified as financial liabilities at fair value through profit or loss or financial liabilities measured at amortized cost. All financial liabilities are recognized initially at fair value and in the case of loans and borrowings, plus directly attributable transaction costs.

4.21.1. Financial liabilities at fair value through profit or loss

Financial liabilities at fair value through profit or loss include financial liabilities held-for-trading and financial liabilities designated upon initial recognition as of fair value through profit or loss. Financial liabilities are classified as held-for-trading if they are acquired for the purpose of selling in the near term. All financial liabilities including an embedded derivative separated from the host contract are reclassified as financial liabilities at fair value through profit or loss except for financial liabilities designated as effective hedging instruments or financial guarantee contracts. After initial recognition, the changes in the fair value of the financial liabilities at fair value through profit or loss and the related interest expenses are recognized as profit or loss. The Group has designated derivative-linked securities sold by the Group as financial liabilities at fair value through profit or loss.

4.21.2. Financial liabilities measured at amortized cost

Borrowings are recognized initially at fair value, net of transaction costs incurred. Borrowings are subsequently carried at amortized cost. The difference between the amounts received less transaction costs and the amount repaid is amortized using the effective interest rate method and recognized as interest expense over the term of the borrowing.

Commissions paid in accordance with the terms of the borrowing agreements are recognized as transaction costs for the borrowings when it is highly probable that a portion or entirety of borrowings are made. The recognition of expenses thereof is deferred until the borrowings are withdrawn. If there is no evidence that it is highly probable a portion or entirety of the borrowings will be made, the payments are recorded as prepaid expenses for liquidity services and are amortized over the contractual period.

4.21.3. Derecognition of financial liabilities

A financial liability is derecognized when the obligation under the liability is discharged or cancelled 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 a derecognition of the original liability and the recognition of a new liability, and the difference in the respective carrying amounts is recognized in the statement of comprehensive income. Meanwhile, the group has designated derivatives linked securities sold by the group as financial liabilities at fair value through profit or loss.

4.22. Fair value of financial instruments

Financial assets and financial liabilities traded in active markets at the reporting date are 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.

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 which provide reliable estimates on mark-to-market prices are applied.

The Group uses the following hierarchy for determining and disclosing the fair value of financial instruments by valuation technique:

- Level 1: Quoted (unadjusted) prices in active markets for similar assets or liabilities.
- Level 2: Other techniques for which all inputs which have a significant effect on the recorded fair value are observable, either directly or indirectly.
- Level 3: Techniques which use inputs which have a significant effect on the recorded fair value that are not based on observable market data.

4.23. 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 amount recognized as a provision is the best estimate of the expenditure required to fulfill the present obligation at the end of the reporting period, taking into account the inevitable risks and uncertainties about the events and circumstances involved. If the time value of money is important, the provision is assessed at the present value of the expected expenditure to fulfill the obligation.

If a third party is expected to payback some or all of the expenditure required to settle the provision, the repayment amount is recognized and accounted for as a separate asset only when it is almost certain that it will be reimbursed.

The balance of provisions is reviewed at the end of each reporting period and adjusted to reflect the best estimate at the end of the reporting period. When it is no longer likely that the outflow of resources embodying economic benefits for the fulfillment of obligations, the relevant provision is reversed.

4.24. Capital stock

Common stock issued is classified as a capital stock in the statement of financial position and additional stock issuance costs or incremental costs related to the stock issuance are recorded as a deduction from issued capital net of tax effects.

Preferred stocks are classified as equity if they do not have to be redeemed or are redeemed only at our option, and if the payment of dividends is determined at our discretion. Dividends are recognized when the dividend is approved at the company's general shareholders' meeting. Preferred shares are classified as liabilities for which shareholders can claim repayment of a fixed or definable amount on or after a certain date or are obligated to repay. The dividend is recognized as interest expense and in profit or loss when incurred.

4.25. Dividends

Dividends on common stock are deducted from the Group's equity and recognized as a liability when the shareholders' meeting of the Group approves the dividends.

4.26. Transaction under common control

The Group accounts transactions under common control based on book value. Assets and liabilities of participated entities are recognized book value of the date of transaction, and the difference between payment and book value is reflected in capital

4.27. Share-based payments

The Group indirectly measures the fair value of the goods or services received or the fair value of the goods or services received in a share-settled stock payment transaction that grants stocks or stock options to employees in exchange for the goods or services received. The amount is recognized as employee benefits and equity during the vesting period. If the vesting condition of the stock option is a vesting condition other than a service provision condition or a market condition, the employee cost is adjusted so that it is ultimately determined based on the actual quantity of the stock option.

In the case of cash-settled share-based compensation transactions in which cash is paid in exchange for the goods or services received, the goods or services received and the liabilities borne in return are measured at fair value. These are recognized as employee benefit expenses and liabilities during the vesting period. In addition, the fair value of the liability is remeasured at the end of each reporting period and at the final settlement date until the liability is settled, and the change in fair value is recognized as employee benefits.

Meanwhile, Meritz Financial Group, the ultimate parent entity, granted employees of consolidated companies the right under the Share-based payment arrangement, and the consolidated company signed an agreement with Meritz Financial Group to compensate for the amount under the Share-based payment arrangement. According to the payment agreement, the amount that the consolidated company has to pay to Meritz Financial Group is recognized as a liabilities, and the difference in compensation costs recognized according to the stock settlement type is reflected in capital.

4.28. Criteria of calculating earnings per share (EPS)

The Group calculates basic income per share of common stock and diluted income per share in profit or loss for the year and is presented in the statement of comprehensive income. Basic income per share is calculated by dividing the net income attributable to common stocks by the weighted average number of common stocks in circulation during the reporting period. Diluted EPS is calculated by adjusting the earnings and number of shares for the effects of all dilutive potential common shares.

5. Significant judgements and accounting estimates

The preparation of the Group's consolidated financial statements requires the management to make judgments, estimates and assumptions that affect the reported amounts of revenues, expenses, assets and liabilities, and the disclosure of contingent liabilities, at the end of the reporting period. Uncertainty about these assumptions and estimates could result in outcomes that require a material adjustment to the carrying amount of the asset or liability affected in future periods.

In the process of applying the Group's accounting policies, the management has made the following judgments, which have the most significant effect on the amounts recognized in the consolidated financial statements.

5.1. Impairment of financial assets

The Group recognizes an allowance for expected credit losses (ECLs) for all debt instruments not held at fair value through profit or loss. ECLs are based on the difference between the contractual cash flows due in accordance with the contract and all the cash flows that the Group expects to receive, discounted at an approximation of the original effective interest rate. The expected cash flows will include cash flows from the sale of collateral held or other credit enhancements that are integral to the contractual terms.

ECLs are recognized in two stages. For credit exposures for which there has not been a significant increase in credit risk since initial recognition, ECLs are provided for credit losses that result from default events that are possible within the next 12 months (12 months ECL). For those credit exposures for which there has been a significant increase in credit risk since initial recognition, a loss allowance is required for credit losses expected over the remaining life of the exposure, irrespective of the timing of the default (a lifetime ECL).

5.2. Impairment of non-financial assets

Impairment exists when the carrying value of an asset or cash generating unit exceeds its recoverable amount, which is the higher of its fair value less costs to sell and its value in use. The fair value less costs to sell calculation is based on available data from binding sales transactions in an arm's length transaction of similar assets or observable market prices less incremental costs for disposing of the asset. The value in use calculation is based on a discounted cash flow model. The cash flows are derived from the budget for the next five years and do not include restructuring activities that the Group is not yet committed to or significant future investments that will enhance the asset's performance of the cash generating unit being tested. The recoverable amount is most sensitive to the discount rate used for the discounted cash flow model as well as the expected future cash inflows and the growth rate used for extrapolation purposes.

5.3. Income taxes

Uncertainties exist with respect to the interpretation of complex tax regulations and the amount and timing of future taxable income. Given the wide range of international business relationships and the long-term nature and complexity of existing contractual agreements, differences arising between the actual results and the assumptions made, or future changes to such assumptions, could necessitate future adjustments to tax income and expense already recorded. The Group establishes provisions, based on reasonable estimates, for possible consequences of audits by the tax authorities of the respective countries in which it operates. The amount of such provisions is based on various factors, such as experience of previous tax audits and differing interpretations of tax regulations by the taxable entity and the responsible tax authority.

5.4. Tax for the promotion of collaborative investment cooperation

In accordance with the tax for the promotion of collaborative investment cooperation, when a certain amount of taxable income of five years from 2018 is not used for investment and wage increases, the Group will be obligated to pay additional income taxes calculated based on the methods provided in the Tax Law. As a result, the Group reflects the effect of tax for the promotion of collaborative investment cooperation on the income tax for the corresponding years, and the tax liability of the Group may vary depending on the level of investment and wage growth in each year.

6. Operating segment information

6.1. General Information

Management of the Company decides operating segment based on the information, which is to be reported to the chief executive officer, in order to allocate resources to the segment and evaluate performance of the segment. The details of operating department consists are presented as following:

- a) Sales & Trading: Brokerage service, proprietary trading and underwriting of securities etc.
- b) Corporate finance and IB: Corporate financing advisory services, real estate-related credit offering etc.
- c) Retail business: consignment business, sale of asset management etc.
- d) Merchant banking: Issue, discount and trading of promissory note or bond, investment and loan of facilities or working capital, payment guarantees, and management of CMA (*)
- e) Credit-Specialized financial business: Equipment rental business, credit card business, installment financing business, new technology business financing etc.
- f) Others: Other operating services and headquarters management support services

(*) The merchant banking, which was led by the merger with the Meritz Investment Bank Co., Ltd, ended on April 5, 2020.

6.2. Financial Information by division

6.2.1. The financial information of the operating segments for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Sales & Trading		Cor	porate Finance	Retail business Credit-specialized			, 202	Others	Consolidated		Total		
		sales & Trading		and IB		etali busiriess	fina	ancial business		Others		adjustments		iotai
Total revenue	₩	21,659,087,284	₩	584,666,170	₩	247,142,532	₩	721,306,765	₩	758,134,438	₩	(569,143,373)	₩	23,401,193,816
Total expense		(21,219,171,734)		(100,744,729)		(135,601,062)		(446,262,878)		(828,610,969)		376,397,975		(22,353,993,397)
Income (loss) before income tax expense		439,915,550		483,921,441		111,541,470		275,043,887		(70,476,531)		(192,745,398)		1,047,200,419
Income tax expense (*1)		(106,658,720)		(117,328,068)		(27,043,532)		(53,703,746)		32,881,269		7,576,920		(264,275,877)
Net income (loss)	₩	333,256,830	₩	366,593,373	₩	84,497,938	₩	221,340,141	₩	(37,595,262)	₩	(185,168,478)	₩	782,924,542
Total Assets		41,952,648,067		-		-		8,000,426,618		8,957,436,866		(4,802,272,438)		54,108,239,113
Total Liabilities		36,883,832,583		-		-		6,811,444,277		7,919,265,542		(2,840,717,715)		48,773,824,687
_						Year ei	nded	December 31,	2020					

							ı cai	Clided De	CCII	1001 01, 2020						
	Sales & Trading Corporate Fir and IB		oorate Finance and IB						Credit-specialized financial business		Others	Consolidated adjustments		Total		
Total revenue	₩	15,716,093,975	₩	540,824,444	₩	186,801,697	₩	7,537,312	₩	634,394,148	₩	14,254,318	₩	(413,501,291)	₩	16,686,404,603
Total expense		(15,524,935,627)		(247,869,590)		(159,045,304)		(6,942,221)		(453,828,467)		14,696,900		458,686,774	(15,919,237,535)
Income (loss) before income tax expense Income tax expense		191,158,348		292,954,854		27,756,393		595,091		180,565,681		28,951,218		45,185,483		767,167,068
(*1)		(50,517,893)		(77,419,910)		(7,335,251)		(157,266)		(46,710,204)		(17,003,895)	_	(2,888,206)	_	(202,032,625)
Net income (loss)	₩	140,640,455	₩	215,534,944	₩	20,421,142	₩	437,825	₩	133,855,477	₩	11,947,323	₩	42,297,277	₩	565,134,443
Total Assets		35,318,142,325		-		-		-		6,602,447,239		4,687,667,184	((2,761,265,546)	4	43,846,991,202
Total Liabilities		30,771,023,719		-		-		-		5,651,685,696		4,188,492,720	((1,552,993,906)	;	39,058,208,229

(*1) The amount is allocated to net income before income tax of each segment for 2021 and 2020

The measured amounts in each segment are reported to the chief operating decision maker for the purpose of assessing the performance of each segments. This includes profits and interest of internal funds from transactions with other sales departments.

6.2.2. There is no single customer accounted for more than 10% of the company's operating profit in 2021 and 2020. The geographic operating revenue information and the geographic non-current assets information for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended Dec	ember 31, 2	2021	Year en	er 31, 2020		
	Domestic	Overse	eas	Dome	stic		Overseas
Operating revenue	₩ 23,244,484,936	₩ 2,9	900,787	₩ 16,601,	878,383	₩	2,999,294
Non-current assets (*)	78,779,718	150,3	381,290	89,	615,458		-

^(*) Represents the amount as of December 31, 2021 and 2020.

7. Cash and deposits

Cash and due from banks as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Dece	ember 31, 2021_	Dece	ember 31, 2020
Cash and cash equivalents:		_		
Current deposits	₩	1,081,533	₩	1,233,665
Demand deposits		401,892,475		386,600,902
Foreign currency deposit		288,846,138		80,214,779
Time deposits		245,351		51,000,000
MMDA		88,502,559		82,000,000
Others		386,026,447		398,685,991
		1,166,594,503		999,735,337
Due from banks in Korean won:		_		_
Reserve for claims of customer's Deposits(*)		145,203,410		237,000,000
Margin on securities market		79,000,000		43,100,000
Guarantee deposits for securities Borrowed Guarantee deposits for		10,000		174,731,900
trading futures and options		220,919,084		150,635,444
Long - term deposits		1,195,378,197		302,000,000
Restricted deposits etc.		177,500		188,500
Other deposits		1,010,576,461		315,116,127
		2,651,264,652		1,222,771,971
	₩	3,817,859,155	₩	2,222,507,308

^(*) Pursuant to the *Financial Investment Services and Capital Markets Act*, the Group is required to place a deposit on a daily basis in Korea Securities Finance Corporation ("KSFC") as a reserve against customers' deposits for the trading of stocks, derivatives and for other purposes. These deposits should exceed the amount which is calculated by deducting cash commission guarantee from total customers' deposit.

8. Financial assets at fair value through profit or loss

Financial assets at fair value through profit or loss as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		Book value (Fair val	ue)
	Dec	ember 31, 2021	De	cember 31, 2020
Fair value through profit or loss measurement item:				
Equity securities and investments	₩	1,446,982,540	₩	835,310,364
Debt securities:				
Government and public bonds		9,098,087,157		10,074,455,674
Special purpose bonds		4,539,544,928		5,877,103,836
Corporate bonds		2,932,491,073		1,823,151,956
Collective investment securities		1,550,547,943		2,151,941,471
Commercial papers		979,540,228		182,483,933
Asset backed short-term bonds		1,058,358,303		53,015,305
Foreign currency securities		751,543,448		726,197,198
Loans		1,412,839,063		1,146,911,405
Hybrid financial instruments Reserve for claims of customers'		1,384,134,312		189,292,369
deposits (trust) (*)		1,207,894,688		994,104,732
Collective fund for default loss		36,231,462		27,223,780
Equity linked securities		128,059,031		103,462,576
Stock warrant securities		41,287		-
Others		144,957,380		109,431,886
Credit risk adjustments		(191,061)		(161,615)
Deferred day 1 profit or loss		(5,394,960)		2,391,191
		26,665,666,822		24,296,316,061
Derivative assets held for trading:				
Interest rate derivatives		46,568,774		49,291,511
Foreign currency derivatives		55,165,381		225,310,995
Equity derivatives		67,705,759		63,729,865
Stock price index derivatives		11,519,475		62,938
Others		212,862,894		91,294,581
Credit risk adjustments		(2,864,039)		(1,356,847)
Deferred day 1 profit or loss	<u>.</u>	(74,280,881)		15,592,437
		316,677,363		443,925,480
	₩	26,982,344,185	₩	24,740,241,541

^(*) Pursuant to the *Financial Investment Services and Capital Markets Act*, the Group is required to place a deposit on a daily basis in Korea Securities Finance Corporation ("KSFC") as a reserve against customers' deposits for the trading of stocks, derivatives and for other purposes. These deposits should exceed the amount which is calculated by deducting cash commission guarantee from total customers' deposit.

9. Financial assets measured at FVOCI

9.1. Financial assets measured at FVOCI as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		Book valu	ıe (Fair va	alue)
	Dece	mber 31, 2021	Dece	ember 31, 2020
Equity securities and investments (*)	₩	309,740,475	₩	283,258,542
Debt securities:				
Government bonds		642,867,419		-
Special purpose bonds		1,215,190,291		40,224,905
Corporate bonds		1,075,200,083		325,436,616
	₩	3,242,998,268	₩	648,920,063

^(*) Equity securities acquired by law for contribution and acquisition, donation and public or business collaboration purposes were classified as fair value through other comprehensive income financial assets.

9.2. Gain (loss) on valuation of financial assets measured at FVOCI as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		De	cember 31, 202	1	
	Acquisition cost	Amortized cost	Accumulated expected credit losses	Fair value	Gain(loss) on valuation
Equity securities		·			
Non-marketable stock	₩ 109,111,289	₩ -	₩ -	₩ 309,740,475	₩ 200,629,186
	109,111,289			309,740,475	200,629,186
Debt securities:					
Government bonds	635,301,869	636,261,270	-	642,867,419	6,606,149
Special purpose bonds	1,214,738,364	1,214,830,720	(1,025,878)	1,215,190,291	1,385,449
Corporate bonds	1,075,314,687	1,075,653,866	(1,165,159)	1,075,200,083	711,376
	2,925,354,920	2,926,745,856	(2,191,037)	2,933,257,793	8,702,974
	₩ 3,034,466,209	₩ 2,926,745,856	₩ (2,191,037)	₩ 3,242,998,268	₩ 209,332,160

		D	ecember 31, 2020		
	Acquisition cost	Amortized cost	Accumulated expected credit losses	Fair value	Gain(loss) on valuation
Equity securities				- '	
Non marketable stock	₩ 109,411,289	₩ -	₩ -	₩ 283,258,542	₩ 173,847,253
	109,411,289			283,258,542	173,847,253
Debt securities:				- '	
Special purpose bonds	40,268,763	40,234,487	(44,275)	40,224,905	34,693
Corporate bonds	325,635,936	325,526,459	(436,142)	325,436,616	346,299
	365,904,699	365,760,946	(480,417)	365,661,521	380,992
	₩ 475,315,988	₩ 365,760,946	₩ (480,417)	₩ 648,920,063	₩ 174,228,245

9.3. Changes in valuation gain (loss) on valuation of financial assets measured at FVOCI for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

				Yea	r ende	d December 31,	2021				
	Beginning balance		0 0		Chang	es in credit losses		in (loss) on ⁄aluation	Ending balance		
Equity securities : Non-marketable											
equity securities	₩	173,847,253	₩	-	₩	-	₩	26,781,933	₩	200,629,186	
Income tax effect		(47,721,071)		-		-		(7,351,641)		(55,072,712)	
		126,126,182		-		-		19,430,292		145,556,474	
Debt securities :						<u> </u>					
Government bonds		-		-		-		6,606,149		6,606,149	
Special purpose											
bonds		34,693		9,583		981,603		359,570		1,385,449	
Corporate bonds		346,299		89,844		729,018		(453,785)		711,376	
Income tax effect		(104,583)		(27,292)		(469,565)		(1,787,527)		(2,388,967)	
		276,409		72,135		1,241,056		4,724,407		6,314,007	
	₩	126,402,591	₩	72,135	₩	1,241,056	₩	24,154,699	₩	151,870,481	

				Yea	r ended [December 31,	2020			
		Beginning balance F		Reclassification		Changes in credit losses		ss) on tion	Ending balance	
Equity securities: Marketable equity	***	4.000	117	(4.000)						
securities Non-marketable	₩	1,268	₩	(1,268)	₩	-	₩	-	₩	-
equity securities		122,558,925		_		_	51	,288,328		173,847,253
Income tax effect		(33,630,516)		348				090,903)		(47,721,071)
		88,929,677		(920)		-	37	,197,425		126,126,182
Debt securities Special purpose										
bonds		14,859		(14,858)		44,275		(9,583)		34,693
Corporate bonds		123,143		204,922		40,738		(22,504)		346,299
Income tax effect		(37,868)		(52,153)		(23,328)		8,766		(104,583)
		100,134		137,911		61,685		(23,321)		276,409
	₩	89,029,811	₩	136,991	₩	61,685	₩ 37	,174,104	₩	126,402,591

- 9.4. There were equity securities measured at FVOCI derecognized in 2021 and 2020 (₩300,000 thousand in 2021, ₩1,265 thousand in 2020) and ₩540,000 thousand and ₩1,338 thousand were recognized as a gain or loss on disposal in 2021 and 2020 respectively.
- 9.5. Residual maturity profiles of debt securities in financial assets measured at FVOCI as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		Yea	ar end	led December 31,	2021	
		No later	Afte	er 1 year but no		
		than 1 year	late	er than 5 years		Total
Government bonds	₩	-	₩	642,867,419	₩	642,867,419
Special purpose bonds		168,996,960		1,046,193,331		1,215,190,291
Corporate bonds		567,590,908		507,609,175		1,075,200,083
	₩	736,587,868	₩	2,196,669,925	₩	2,933,257,793

9.5. Residual maturity profiles of debt securities in financial assets measured at FVOCI as of December 31, 2021 and 2020 are as follows (in thousands of Korean won) (cont'd):

		Year ended December 31, 2020									
	t	No later han 1 vear	•	year but no an 5 years	Total						
Special purpose bonds Corporate bonds	₩	40,224,905 325,436,616	₩	- -	₩	40,224,905 325,436,616					
- 1	₩	365,661,521	₩	-	₩	365,661,521					

9.6. Changes in expected credit losses on debt securities in financial assets measured at FVOCI for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	1	2 month			Impaired loans			_
	expe	ected credit losses	Lif	fetime expected credit losses	Lifetime expected credit losses			Total
Beginning accumulated expected credit losses	₩	480,417	₩	_	₩ .	_	₩	480,417
Transfer to 12 month expected								
credit losses		-		-		-		-
Transfer to lifetime expected credit losses		-		-		-		_
Transfer to lifetime Impaired loans Lifetime expected credit								
losses		-		-	•	-		-
Provision (reversal) for possible loan losses		1,710,620				_		1,710,620
Ending accumulated expected credit losses	₩	2,191,037	₩		₩ .	<u>-</u>	₩	2,191,037

				Year ended December 31, 2020					
	expe	2 month cted credit osses	Lit	fetime expected credit losses	Impaired loans Lifetime expecte credit losses			Total	
Beginning accumulated expected credit losses	₩	395,403	₩	-	₩	-	₩	395,403	
Transfer to 12 month expected credit losses		-		-		-		-	
Transfer to lifetime expected credit losses		-		-		-		-	
Transfer to lifetime Impaired loans Lifetime expected credit									
losses Provision (reversal) for possible loan losses		95 044		-		-		95.014	
Ending accumulated expected		85,014		<u>-</u>		_		85,014	
credit losses	₩	480,417	₩		₩	_	₩	480,417	

9.7. Changes in gross book value on debt securities in financial assets measured at FVOCI for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

				Year ended De	ecember 3	1, 2021		
	12 month expected credit losses		ex	Lifetime pected credit losses	Impaired loans Lifetime expected credit losses			Total
Beginning accumulated expected credit losses	₩	365,661,521	₩	-	₩	_	₩	365,661,521
Transfer to 12 month expected credit losses		-		-		-		-
Transfer to lifetime expected credit losses		-		-		_		-
Transfer to lifetime Impaired loans lifetime expected credit								
losses		-		-		-		-
Execution and collection	2	,560,618,600		-		-		2,560,618,600
Foreign transactions and other changes		6,977,672				_		6,977,672
Ending accumulated expected credit losses	₩2	,933,257,793	₩		₩		₩	2,933,257,793

				Year ended Dec	Year ended December 31, 2020								
		12 month			Impaired loans		_						
	ex	expected credit L losses		etime expected credit losses	Lifetime expected credit losses		Total						
Beginning accumulated													
expected credit losses	₩	205,896,082	₩	-	₩ -	₩	205,896,082						
Transfer to 12 month expected													
credit losses		-		-	-		-						
Transfer to lifetime expected													
_credit losses		-		-	-		-						
Transfer to lifetime Impaired loans lifetime expected credit losses													
Execution and collection		159,887,713		_	_		159,887,713						
Foreign transactions and		100,007,710					100,007,710						
other changes		(122,274)		<u>-</u>			(122,274)						
Ending accumulated expected													
credit losses	₩	365,661,521	₩		₩ -	₩	365,661,521						

10. Investments in associates and joint ventures

10.1. Details of investments in associates and joint ventures as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

			Book value					
Associates	Location	Ownership (%)	December 31, 2021	December 31, 2020				
Korea Asset Classic Private Investment Trust 2nd (*1)	Korea	7.50	₩ 296,646	₩ 299,145				
Airplane fund 5 (*1)	Korea	20.81	13,858,031	13,858,031				
Airplane fund 6 (*1)	Korea	8.87	1	1				
Meritz Professional Private Real Estate Investment Trust 8th (*1)	Korea	0.66	239,287	234,250				
Meritz Professional Private Real Estate Investment Trust 7th (*1)	Korea	0.60	504,224	502,547				
M Plus Sky Private Investment Trust 4th (*1)	Korea	8.62	3,372,715	3,302,682				
Heungguk Flight Private Investment Trust 10th (*1)	Korea	7.82	10,321,865	9,953,694				
Heungguk Flight Private Investment Trust 11th(*1)	Korea	54.84	1	1				
Al Partners Energy Infra Private Investment Trust 1st (*1)	Korea	50.00	14,999,060	18,902,939				
Heungguk Flight Private Investment Trust 12th (*1)	Korea	32.40	56,863,612	58,183,544				
Heungguk Flight Private (*1)	Korea	46.37	2,335,934	2,321,962				
Mastern Europe Real Estate Investment Trust 5th (*1)	Korea	26.53	24,155,205	24,155,205				
Mastern Europe Real Estate Investment Trust 10th (*1)	Korea	49.89	109,930,618	114,690,826				
JB IPO Private Fund Trustee 3 I	Korea	20.00	756,265	764,823				
SUN&TREE IPO HIGH-YIELD HEDGE FUND 4	Korea	35.36	16,538,836	-				
Global One Professional Investment Type Private IPO Investment Trust No.2	Korea	41.67	2,970,879	-				
Anda Project C Private Securities Investment Trust 1	Korea	31.25	984,730	-				
EK IPO High Yield Private Equity Trust II	Korea	25.00	6,253,948	-				
CrownRock IPO I Hedge Fund	Korea	29.99	3,289,022	-				
Consus Busan Gijang Private Real Estate Fund no.2(*1)	Korea	50.00	1,384,916	-				
EK IPO Private Equity Trust III(*1)	Korea	50.00	2,603,189	-				
Skywalk Game Changer Hedge Fund No.1	Korea	23.26	1,994,961	-				
Intrus Value-add Professional Investment Private Fund#3	Korea	25.19	126,225	-				
Hizeasset IPO Private Investment Trust 2	Korea	20.02	856,984	-				
Trinity Unicorn IPO FUND 1st	Korea	20.06	971,526	-				

10.1. Details of investments in associates and joint ventures as of December 31, 2021 and 2020 are as follows (in thousands of Korean won) (cont'd):

			Book value				
Associates	Location	Ownership (%)	December 31, 2021	December 31, 2020			
SUN&TREE IPO FUND 1st	Korea	20.11	₩ 929,946	₩ -			
Kclavis Private Investment Trust 2nd	Korea	20.00	849,591	-			
VM Energy Highyield Fund	Korea	37.32	10,050,860	-			
Asia growth 1st private equity Investment Limited Partnership	Korea	45.45	4,656,839	4,707,945			
MERITZ NS GLOBAL BIO FUND (*2)	Korea	12.07	1,915,983	2,067,012			
Kclavis Meister 38th (*1)	Korea	81.82	848,741	863,366			
Genesis North America PowerCompany 1st	Korea	24.40	8,383,984	10,665,491			
Gongpyeong 15-16 PFV (*2)	Korea	13.66	1	1			
OST Partners, Co., Ltd.(*2)	Korea	17.50	1	1			
Rhinos-Meritz fund (*2)	Korea	16.62	1,182,981	1,623,611			
Higs Frontier, Co., Ltd (*2, 3)	Korea	50.00	154	1			
ASEAN Platform Fund No. 1 (*2)	Korea	10.36	957,109	973,184			
TK Build, Co., Ltd (*2)	Korea	15.00	1	1			
Meritz-DS Fund	Korea	22.73	950,183	971,483			
Rhinos-Meritz fund 2 (*2)	Korea	16.93	1,077,939	951,943			
Bric-Orbit 8th New Technology Investment Union(*5)	Korea	-	-	1,070,115			
Cheongna Logistics, Co., Ltd. (*5)	Korea	-	-	1			
KCGI Private Equity Fund 1-12 (*5)	Korea	-	-	19,682,434			
Chungmu-ro PFV Co., Ltd.(*2)	Korea	18.00	1	1			
GAHA YOU&I CO., LTD(*2)	Korea	16.67	1	1			
Hangang Landmark PFV Co., Ltd.(*2)	Korea	14.79	400,715	485,374			
DAON CONSTRUCTION, Co., Ltd.(*2, 3)	Korea	19.00	1,900	1			
Attila Infrastructure Private Equity Fund I	Korea	28.57	420,213	1,907,622			
Galmae PFV Co., Ltd.(*2)	Korea	19.50	1	659,458			
New wave fund 2(*2)	Korea	14.69	1,605,958	1,491,376			
Songgang Construction(*2)	Korea	10.00	1	1			
DAE-SAN ENG CO.,LTD(*2, 3)	Korea	66.15	1	3,000,000			
Meritz Alphaview fund 1(*2)	Korea	10.44	487,559	497,439			
Next V City PFV Co., Ltd.(*2)	Korea	19.00	1	898,718			
Triple space, Co., Ltd.(*2, 3)	Korea	21.00	1,503	1			
Sunu Urban Development(*2, 4)	Korea	12.80	1	1			
Meritz Kingo fund 1(*2)	Korea	15.99	1,958,963	1,998,528			

10.1. Details of investments in associates and joint ventures as of December 31, 2021 and 2020 are as follows (in thousands of Korean won) (cont'd):

,	, ,		Book value					
Associates	Location	Ownership (%)	December 31, 2021	December 31, 2020				
Meritz Kclavis fund 1	Korea	22.08	₩ 984,306	₩ 1,006,253				
Mastern 116th Gangnam Premium PFV(*2)	Korea	7.00	113,823	-				
Meritz Alphaview Fund2(*2)	Korea	9.68	2,493,277	-				
SMDNC(*2)	Korea	13.30	1	-				
Anseong Seongeun logistics PFV Co. Ltd(*2)	Korea	6.25	418,668	-				
DM METAL(*2, 3)	Korea	73.17	1	-				
Handaritz(*2)	Korea	0.44	479	-				
Meritz GoldenEgg Fund1(*2)	Korea	13.51	984,374	-				
S R Industrial Co., Ltd(*2)	Korea	10.50	1	-				
Sinchon 2-7 PFV	Korea	30.00	1,083,284	-				
Dowon Corporation	Korea	33.33	3,435	-				
SW-RN Fund	Korea	27.27	889,005	-				
YKOSAN PFV(*2, 4)	Korea	9.00	1	-				
NH-Meritz Contents 1 Fund(*2)	Korea	9.09	1,880,635	-				
Meritz Hyundai Investment Partners(*2)	Korea	7.80	1,980,250	-				
Daehoon Partners Corp.(*2)	Korea	19.00	1	-				
JQ(*2)	Korea	13.30	1	-				
Hanyang-Meritz 1 Fund(*2)	Korea	6.45	995,007	-				
Heung Young Industrial Development(*2)	Korea	9.09	1	-				
The First Porte 2(*2)	Korea	13.93	1	-				
KAI-Veritas Venture Fund 1	Korea	17.74	793,950	-				
KI CHUNGPYUNG(*2)	Korea	5.00	1	-				
BUG Logistics Project Finance Investment(*2)	Korea	5.00	227,075	-				
Hangang Eco	Korea	30.00	150,000	-				
JUN GEUM Construction Co., Ltd(*2)	Korea	13.93	1	-				
Cornerstone Mutual Growth Vill Fund	Korea	25.64	695,381	-				
Gimhae Daedong Smart Logistics Corp(*2)	Korea	5.40	372,994	-				
KR Seocho Co., Ltd.(*2)	Korea	16.64	1,000,000	-				
COSMOS(*2)	Korea	9.00	1	-				
Hanwha-Pentastone I Funds	Korea	30.30	1,993,909	-				
Meritz-AssetOne 1 Partners(*2)	Korea	19.23	2,995,541	-				
Dongtan Triple Space(*2)	Korea	6.16	1	-				
Hanyang-Pentastone Hi-tech I Funds	Korea	28.57	1,997,169	-				
Meritz-NH healthcare 1 Fund(*2)	Korea	19.35	2,998,530	-				

10.1. Details of investments in associates and joint ventures as of December 31, 2021 and 2020 are as follows (in thousands of Korean won) (cont'd):

•	, ,	,	Book value			
Associates	Location	Ownership (%)	December 31, 2021	December 31, 2020		
Meritz-SNP 1 Fund(*2)	Korea	12.00	₩ 2,700,003	₩ -		
Yuamkopain wood Enterprise Financial Stability corporate Investment Limited PA	Korea	23.77	9,460,610	18,163,528		
Hyundai Ufirst Private Placement Fund No.32	Korea	40.00	32,991,835	30,909,862		
AIP Euro Green Private Real Estate Investment Trust 7th (*1)	Korea	44.17	74,869,151	74,583,178		
AIP Éuro Green Private Real Estate Investment Trust 8th (*1)	Korea	63.13	50,382,224	40,657,970		
Kiwoom Milestone US Professional Private Real Estate Trust 18 (*1)	Korea	60.00	38,140,544	94,870,270		
Midas Global DEBT Private Real Estate Investment Trust 6th(*1)	Korea	38.91	44,961,444	31,883,934		
IGIS Global Private Real Estate Investment Trust 254 (*5)	Korea	-	-	72,281,751		
UP Global Private Real Estate Fund VI (*1)	Korea	60.00	34,824,689	35,859,953		
NH Presidio Investments LLC (*2)	United States	16.60	1	22,719,052		
Mastern Private Real Estate Investment Trust 61th (*5)	Korea	-	-	10,632,175		
IGIS Global Private Real Estate Investment Trust 301 (*1)	Korea	60.00	323,062,113	268,754,351		
Edelweiss Alternative Solutions Trust(*1)	India	70.00	163,436,631	164,898,916		
PineStreet Global Corporate Finance PEF Trust No.2 (*5)	Korea	-	-	25,260,347		
IGIS US Private Real Estate Investment Trust 292 (*1)	Korea	60.00	107,331,944	112,694,819		
IGIS US Private Real Estate Investment Trust 266 (*1)	Korea	60.00	86,425,720	65,914,980		
Pacific Private Placement REF 36(*5)	Korea	-	-	33,561,076		
Germany Office Real Estate Private Placement Fund No.28 (*5)	Korea	-	-	13,660,303		
PIA Private Real Estate Investment Trust No. 6-1(*1)	Korea	60.00	132,870,736	158,526,519		
PIA Private Real Estate Investment Trust No. 6-2(*1)	Korea	60.00	15,402,666	52,772,082		
WooriG Professional Investor's Private Real Estate Investment Trust No. 2(*5)	Korea	-	-	34,999,040		
Shinhan AIM Real Estate Fund No. 22-A	Korea	41.81	16,890,686	-		
IGIS Global Private Real Estate Investment Trust 434(*1)	Korea	60.00	38,651,064	-		
Consus Osan Segyo Private Real Estate Fund (*1)	Korea	50.00	3,121,255	-		
· <i>,</i>			₩ 1,512,864,231	₩ 1,666,295,119		

10.1. Details of investments in associates and joint ventures as of December 31, 2021 and 2020 are as follows (in thousands of Korean won) (cont'd):

- (*1) Classified as joint venture after the consent of all participants that make important decisions. The joint venture is financed by the participants and invests in stocks and real estate and distributes the revenue to the investors.
- (*2) The Group can be executive officer or director designated by associates can be participated in Associates and has significant control. Thus, it is classified as investments in associates.
- (*3) The percentage of ownership is the Group's revenue distribution percentage in accordance with contracts of the shareholders.
- (*4) The name of investments are changed from 'Star Hub Seungdoo Development' to 'Sunu Urban Development' and from EDAMOSAN 1st PFV to 'YKOSAN PFV'
- (*5) All shares have been sold or collected in 2021.

10.2. Changes in investments in associates and joint venture for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended December 31, 2021														
	Beginning balance		Acquisition		Disposal (*1)		Sain or loss equity method		Receipt of dividends	- 1	ital changes quity method		Others		Ending balance
₩	1,666,295,119	₩	357,334,721	₩	(481,073,519)	₩	56,578,483	₩	(87,488,477)	₩	1,741,140	₩	(523,236)	₩	1,512,864,231

(*1) During the current period, \$\forall 24,328,658\$ thousand decreased due to changes in the scope of consolidation.

Year ended December 31, 2020										
Beginning balance	Acquisition	Disposal (*1)	Gain or loss on equity method	Receipt of dividends	Capital changes in equity method	Others (*2)	Ending balance			
₩ 1,529,332,156	₩ 903,656,476	₩ (627,329,890)	₩ (78,449,390)	₩ (61,316,505)	₩ (1,741,140)	₩ 2,143,412	₩ 1,666,295,119			

- (*1) During the previous period, $\ensuremath{\mathbb{W}}$ 80,145,441 thousand decreased due to changes in the scope of consolidation.
- (*2) During the previous period, the Attila Infrastructure Private Equity Fund I's investments were reclassified from financial assets measured at fair value through profit or loss to investments in related (joint) companies.

10.3. Condensed financial statements as of December 31, 2021 and 2020 and for the years then ended are as follows (in thousands of Korean won):

_	December 31, 2021									
Associates	Assets			Liabilities		Revenue		profit(loss)		
Korea Asset Classic Private Investment										
Trust 2nd	₩	3,957,381	₩	2,098	₩	932,710	₩	453,557		
Airplane fund 5		66,676,330		72,415		9,716,598		-		
Airplane fund 6		7,578		7,578		10,459,179		-		
Meritz Professional Private Real Estate										
Investment Trust 8th		36,532,084		9,203		12,663,443		1,201,477		
Meritz Professional Private Real Estate										
Investment Trust 7th		83,737,810		23,055		15,880,057		4,223,783		
M Plus Sky Private Investment Trust 4th		39,152,529		228		3,890,451		2,210,574		
Heungguk Flight Private Investment Trust										
10th		137,498,135		5,497,615		3,742,228		(1,005,664)		
Heungguk Flight Private Investment Trust										
11th		1,082		1,082		687,507		(623,740)		
Al Partners Energy Infra Private Investment										
Trust 1st		30,788,324		20,770		12,228,486		6,726,875		
Heungguk Flight Private Investment Trust										
12th		184,134,677		8,634,299		34,522,897		2,684,512		
Heungguk Flight Private Investment Trust										
13th		5,048,021		10,912		1,013,028		(119,838)		

10.3. Condensed financial statements as of December 31, 2021 and 2020 and for the years then ended are as follows (in thousands of Korean won) (cont'd):

Mastern Europe Real Estate Investment Trust 5th			31, 2021			
Trust 10th	Associates	Assets	Liabilities	Revenue	Net profit(loss)	
Mastern Europe Real Estate Investment 218,766,229 265,876 93,346,454 (1,192,346) JB IPO Pivate Fund Truste 3 I 3,784,437 3,292 1,740,177 1,309,667 SUNATREE IPO HIGH-YIELD HEDGE FUND 4 46,796,921 23,696 6,770,312 6,088,305 Global One Professional Investment Type Private IPO Investment Trust 1						
Trust 10th		₩ 91,273,365	₩ 225,456	₩ 37,003,494	₩ -	
JB IPO Private Fund Truste 3 3,784,437 3,292 1,740,177 1,309,667	•	218 766 229	265 876	93 346 454	(1 192 346)	
SUNATREE IPO HIGH-YIELD HEDGE 14,796,921 23,696 6,770,312 6,088,085		, ,	,	, ,	,	
Global One Professional Investment Type Private IPO Investment Trust No.2		0,704,407	0,202	1,140,111	1,000,007	
Private IPO Investment Trust No.2		46,796,921	23,696	6,770,312	6,088,305	
Anda Project C Private Securities Investment Trust 1	· · · · · · · · · · · · · · · · · · ·	7 147 076	16.066	2.056.670	2.466.000	
Trust 1		7,147,076	10,900	2,000,070	2,400,000	
CrownRock IPO I Hedge Fund 11,013,211 47,293 1,013,906 965,919 Consus Busan Gligng Private Real Estate Fund no.2 2,797,668 27,836 47,671 19,832 EK IPO Private Equity Trust III 5,219,260 12,882 223,103 201,428 Skywalk Game Changer Hedge Fund No.1 Intrus Value-add Professional Investment Private Fund% 2,960,499 2,459,455 21,099,345 8,898,937 Hizeasset IPO Private Investment Trust 2 4,284,415 3,086 1,037,814 1,573,469 Tininiy Unicorn IPO FUND 1st 4,644,792 867 2,598,012 3,778,859 Klcaivis Private Investment Trust 2nd 4,248,228 272 883,834 2,167,265 Vid Energy Highyleid Fund 26,928,476 200 62,225 136,265 Asia growth 1st private equity Investment Limited Partnership 10,245,055 9 - (112,432) MERITZ NS GLOBAL BIO FUND 16,022,657 147,367 729,691 (15,977) Kclavis Meister 38h 1,046,437 9,086 55 (17,878) Genesis North America Power Company 1st 36,7595		3,158,251	7,113	46,924	13,883	
Consus Busan Gijang Private Real Estate Fund no 2 2,797,668 27,836 47,671 19,832 EK IPO Private Equity Trust III 5,219,260 12,882 223,103 201,428 Skywalk Game Changer Hedge Fund No. 1 Intrus Value-add Professional Investment Private Fund#3 2,660,499 2,459,455 21,099,345 8,898,937 Hizasaset IPO Private Investment Trust 2 4,284,415 3,086 1,037,814 1,573,469 Trinity Unicorn IPO FUND 1st 4,624,792 867 2,598,012 3,778,859 Kclavis Private Investment Trust 2nd 4,284,282 272 888,384 2,167,265 VM Energy Highyield Fund 26,928,476 200 62,225 136,265 Asia growth 1st private equity Investment Limited Partnership 10,245,055 9 - (112,432) MERITZ NS GLOBAL BIO FUND 16,022,857 147,67 72,9691 (15,977) Kclavis Meister 38th 1,046,437 9,086 55 (17,876) Genesis North America PowerCompany 1st 3,677,955 316,463 9,858,087 (367,619) Gengypeong 15-16 PFV 401,821,695	EK IPO high yield private equity trust II	25,059,222	43,431	1,120,903	1,015,791	
Fund no 2 2,797,668 27,836 47,671 19,832 EKI IPO Private Equity Trust III 5,219,260 12,882 223,103 201,428 Skywalk Game Changer Hedge Fund No.1 Intrus Value-add Professional Investment Private Fund/83 2,960,499 2,459,455 21,099,345 8,898,937 Hizeasset IPO Private Investment Trust 2 4,284,415 3,086 1,037,814 1,573,469 Trinity Unicom IPO FUND 1st 4,624,792 867 2,598,012 3,778,859 Klaivs Private Investment Trust 2nd 4,248,228 272 883,834 2,167,265 Klaivs Private Equity Investment Trust 2nd 26,928,476 200 62,225 136,265 Klaivs Private Equity Investment Limited Partnership 10,245,055 9 - (112,432) MERITZ NS GLOBAL BIO FUND 16,022,657 147,367 729,691 (15,977) Klaivs Meister 38th 1,046,437 9,086 55 (17,875) Genesis North America PowerCompany 1st 34,677,955 316,463 9,858,07 (367,619) Genseis North America PowerCompany 1st 49,7224,851 40,500<	CrownRock IPO I Hedge Fund	11,013,211	47,293	1,013,906	965,919	
EK IPO Private Equity Trust III 5,219,260 12,882 223,103 201,428 Skywalk Game Changer Hedge Fund No.1 Intrus Value-add Professional Investment Private Fund#3 8,601,709 23,375 1,772 (21,666) Intrus Value-add Professional Investment Private Fund#3 2,660,499 2,459,455 21,099,345 8,898,937 Hizasaset IPO Private Investment Trust 2 4,284,415 3,086 1,037,814 1,573,469 SUN&TREE IPO FUND 1st 4,624,792 867 2,598,012 3,778,585 Kclavis Private Investment Trust 2nd 4,248,228 272 883,834 2,167,265 VM Energy Highyleid Fund 26,928,476 200 62,255 136,265 Asia growth 1st private equity Investment Limited Partnership 10,245,055 9 - (112,432) MERITZ NS GLOBAL BIO FUND 16,022,657 147,367 729,691 (15,977) Kclavis Meister 38th 1,046,437 9,086 55 (17,876) Genesis North America PowerCompany 1st 31,677,995 316,483 9,888,087 (367,619) Gengsis North America PowerCompany 1st 4,194,194,194 -	, ,					
Skywalk Game Changer Hedge Fund No.1 Intrus Value-add Professional Investment Private Fund#3 2,960,499 23,375 1,772 (21,666) Intrus Value-add Professional Investment Private Fund#3 2,960,499 2,459,455 21,099,345 8,898,937 Hizeasset IPO Private Investment Trust 2 4,284,415 3,086 1,037,814 1,1573,469 Trinity Unicom IPO FUND 1st 4,844,533 473 1,629,922 365,215 SUN&TREE IPO FUND 1st 4,624,792 867 2,598,012 3,778,859 Kclavis Private Investment Trust 2nd 4,284,228 272 883,834 2,167,265 Val Energy Highyleid Fund 26,928,476 200 62,225 136,265 Asia growth 1st private equity Investment Limited Partnership 10,245,055 9 - (112,432) MERITZ NS GLOBAL BIO FUND 16,022,657 147,367 729,691 (15,977) Kclavis Meister 38th 1,046,437 9,086 55 (17,876) Genesis North America PowerCompany 1st 34,677,955 316,463 9,858,087 (367,619) Genesis North America Power Company 1st 36,779,555 316,265			•	·	·	
Intrus Value-add Professional Investment Private Fund#3 2,960,499 2,459,455 21,099,345 8,889,37 Hizeasset IPO Private Investment Trust 2 4,284,415 3,086 1,037,814 1,573,469 Trinity Unicom IPO FUND 1st 4,844,533 473 1,629,922 365,215 SUN&TREE IPO FUND 1st 4,624,792 867 2,598,012 3,778,859 Kclavis Private Investment Trust 2nd 4,248,228 272 883,834 2,167,265 VM Energy Highyleld Fund 26,928,476 200 62,225 136,265 Asia growth 1st private equity Investment Limited Partnership 10,245,055 9 - (112,432) MERITZ NS GLOBAL BIO FUND 16,022,657 147,367 729,691 (15,977) Genesis North America PowerCompany 1st 34,677,955 316,463 9,858,087 (367,619) Gongypeong 15-16 PFV 401,821,695 498,728,451 40,500 (29,169,855) OST Partners, Co., Ltd 290,275,020 291,608,332 17,404,802 32,238,847 Rhinos-Meritz fund 7,119,180 - 1,906,			•	·	·	
Private Fund#3 2,960,099 2,459,455 21,099,345 8,898,937 Hizeasset IPO Private Investment Trust 2 4,284,415 3,086 1,037,814 1,573,469 Trinity Unicom IPO FUND 1st 4,844,533 473 1,629,922 365,215 SUN&TREE IPO FUND 1st 4,624,792 867 2,598,012 3,778,859 Kclavis Private Investment Trust 2nd 4,248,228 272 883,834 2,167,265 VM Energy Highyleid Fund 26,928,476 200 62,225 136,265 Asia growth 1st private equity Investment Limited Partnership 10,245,055 9 - (112,432) MERITZ NS GLOBAL BIO FUND 16,022,657 147,367 729,691 (15,977) Kclavis Meister 38th 1,046,437 9,086 55 (17,875) Genesis North America PowerCompany 1st 34,677,955 316,463 9,858,087 (367,619) Gongpyeong 15-16 PFV 401,821,695 498,728,451 40,500 (29,169,855) SOST Partners, Co., Ltd. 290,275,020 291,600,332 172,040,802 32,238,847	,	8,601,709	23,375	1,772	(21,666)	
Hizeasset IPO Private Investment Trust 2 4,284,415 3,086 1,037,814 1,573,469 Trinity Unicorn IPO FUND 1st 4,844,533 473 1,629,922 365,215 SUN&TREE IPO FUND 1st 4,624,792 8667 2,598,012 3,778,859 Kclavis Private Investment Trust 2nd 4,248,228 272 883,834 2,167,265 VM Energy Highyleid Fund 26,928,476 200 62,225 813,626 Sia growth 1st private equity Investment Limited Partnership 10,245,055 10,086 RERITZ NS GLOBAL BIO FUND 16,022,657 147,367 729,691 (112,432) MERITZ NS GLOBAL BIO FUND 1,046,437 9,086 55 (17,875) Genesis North America PowerCompany 1st 0,092,75,020 291,608,332 172,040,802 32,238,847 Rhinos-Meritz fund 1,191,191,191 Higs Frontier, Co., Ltd 290,275,020 291,608,332 172,040,802 32,238,847 Rhinos-Meritz fund 1,152,264,611 133,614,211 52,519,850 GAHA YOU&L CO., Ltd 115,826,461 133,614,211 52,519,850 GAHA YOU&L CO., Ltd 122,521,767 154,464,329 164,470,838 CHAIR YOU&L CO., Ltd 156,369,033 CHAIR YOU&L CO., Ltd 16,365,903 CHAIR YOU&L CO., Ltd 17,109,100 17,109,100 18,100		2 960 499	2 459 455	21 099 345	8 898 937	
Trinty Unicorn IPO FUND 1st 4,844,533 473 1,629,922 365.215 SUN&TREE IPO FUND 1st 4,624,792 867 2,598,012 3,778,859 Kclavis Private Investment Trust 2nd 26,928,476 200 62,225 136,265 ME nergy Highyield Fund 26,928,476 200 62,225 136,265 Asia growth 1st private equity Investment Limited Partnership 10,245,055 9 - (112,432) MERITZ NS GLOBAL BIO FUND 16,022,657 147,367 729,691 (15,977) Kclavis Meister 38th 1,046,437 9,086 55 (17,875) Genesis North America PowerCompany 1st 34,677,955 316,483 9,858,087 (367,619) Genesis North America PowerCompany 1st 40,821,695 498,728,451 40,500 (29,169,855) OST Partners, Co., Ltd. 290,275,020 291,608,332 172,040,802 32,238,847 Khinos-Meritz fund 7,119,180 - 1,906,605 (355,390) Higs Frontier, Co., Ltd 654 284 - 203,220 ASEAN Platform F						
SUN&TREE IPO FUND 1st 4,624,792 867 2,598,012 3,778,858 Kclavis Private Investment Trust 2nd 4,248,228 272 883,834 2,167,265 WM Energy Highyield Fund 26,928,476 200 62,225 136,265 Asia growth 1st private equity Investment Limited Partnership 10,245,055 9 - (112,432) MERITZ NS GLOBAL BIO FUND 16,022,657 147,867 729,691 (15,977) Kclavis Meister 38th 1,046,437 9,086 55 (17,875) Genesis North America PowerCompany 1st 34,677,955 316,463 9,858,087 (367,619) Gongypeong 15-16 PFV 401,821,695 498,728,451 40,500 (29,169,855) OST Partners, Co., Ltd. 290,275,020 291,608,332 172,040,802 32,238,847 Rhinos-Meritz fund 7,119,180 - 1,906,605 (355,390) Higs Frontier, Co., Ltd 654 284 - 202,320 ASEAN Platform Fund No. 1 9,236,101 - 74 (155,122) TK Build, Co., Ltd <td></td> <td></td> <td>·</td> <td></td> <td></td>			·			
Kclavis Private Investment Trust 2nd 4,248,228 272 883,834 2,167,265 VM Energy Highyield Fund 26,928,476 200 62,225 136,265 Asla growth 1st private equity Investment Limited Partnership 10,245,055 9 - (112,432) MERITZ NS GLOBAL BIO FUND 16,022,657 147,367 79,691 (15,977) Kclavis Meister 38th 1,046,437 9,086 55 (17,875) Genesis North America PowerCompany 1st 34,677,955 316,463 9,858,087 (367,619) Gongpyeong 15-16 PFV 401,821,695 498,728,451 40,500 (29,169,855) OST Partners, Co., Ltd. 290,275,020 291,608,332 172,040,802 32,238,847 Rhinos-Meritz fund 7,119,180 - 1,906,605 (355,390) Higs Frontier, Co., Ltd 654 284 - 203,220 ASEAN Platform Fund No. 1 9,236,101 - 74 (155,122) K Build, Co., Ltd 115,826,461 133,614,211 52,519,860 (5,935,603) Meritz-DS Fund <td< td=""><td>•</td><td></td><td></td><td></td><td>·</td></td<>	•				·	
VM Energy Highyield Fund 26,928,476 200 62,225 136,265 Asia growth 1st private equity Investment Limited Partnership 10,245,055 9 - (112,432) MERITZ NS GLOBAL BIO FUND 16,022,657 147,367 729,691 (15,977) Kclavis Meister 38th 1,046,437 9,086 55 (17,875) Genesis North America PowerCompany 1st 34,677,955 316,463 9,858,087 (367,619) Gongpyeong 15-16 PFV 401,821,695 498,728,451 40,500 (29,169,855) OST Partners, Co., Ltd. 290,275,020 291,608,332 172,040,802 32,238,847 Rhinos-Meritz fund 7,119,180 - 1,906,605 (355,390) Higs Frontier, Co., Ltd 654 284 - 74 (155,122) KBillid, Co., Ltd 15,826,461 133,614,211 52,519,850 (5,935,603) Meritz-DS Fund 4,180,806 - 419 (93,720) Klinios-Meritz fund 2 6,365,903 - (899,348) 744,083 Chungmu-ro PFV Co., Ltd.	Kclavis Private Investment Trust 2nd					
Asia growth 1st private equity Investment Limited Partnership 10,245,055 9 - (112,432) MERITZ NS GLOBAL BIO FUND 16,022,657 147,367 729,691 (15,977) Kclavis Meister 38th 1,046,437 9,086 55 (17,875) Genesis North America PowerCompany 1st 34,677,955 316,463 9,858,087 (367,619) Gongypeong 15-16 PFV 401,821,695 498,728,451 40,500 (29,169,855) OST Partners, Co., Ltd. 290,275,020 291,608,332 172,040,802 32,238,847 Rhinos-Meritz fund 7,119,180 - 1,906,605 (355,390) Higs Frontier, Co., Ltd 654 284 - 203,220 ASEAN Platform Fund No. 1 9,236,101 - 74 (155,122) TK Build, Co., Ltd 115,826,461 133,614,211 52,519,850 (5,935,603) Meritz-DS Fund 4,180,806 - 419 (93,720) Rhinos-Meritz fund 2 6,365,903 - (899,348) 744,083 Chungmu-ro PFV Co., Ltd. 122,521,767	VM Energy Highvield Fund			·		
MERITZ NS GLOBAL BIO FUND 16,022,657 147,367 729,691 (15,977) Kclavis Meister 38th 1,046,437 9,086 55 (17,875) Genesis North America PowerCompany 1st 34,677,955 316,463 9,858,087 (367,619) Gongpyeong 15-16 PFV 401,821,695 498,728,451 40,500 (29,169,855) OST Partners, Co., Ltd. 290,275,020 291,608,332 172,040,802 32,238,847 Rhinos-Meritz fund 7,119,180 - 1,906,605 (355,390) Higs Frontier, Co., Ltd 654 284 - 203,220 ASEAN Platform Fund No. 1 9,236,101 - 74 (155,122) TK Build, Co., Ltd 115,826,461 133,614,211 52,519,850 (5,935,603) Meritz-DS Fund 4,180,806 - 419 (93,720) Rhinos-Meritz fund 2 6,365,903 - (899,348) 744,083 Ghard YOU&I CO., LtD 21,855,207 33,408,623 - (7,624,701) Hangang Landmark PFV Co., Ltd. 55,802,433 55,792,443	•• • •	20,020, 0	200	02,220	.00,200	
Kclavis Meister 38th 1,046,437 9,086 55 (17,875) Genesis North America PowerCompany 1st 34,677,955 316,463 9,858,087 (367,619) Gongpyeong 15-16 PFV 401,821,695 498,728,451 40,500 (29,169,855) OST Partners, Co., Ltd. 290,275,020 291,608,332 172,040,802 32,238,847 Rhinos-Meritz fund 7,119,180 - 1,906,605 (355,390) Higs Frontier, Co., Ltd 654 284 - 203,220 ASEAN Platform Fund No. 1 9,236,101 - 74 (155,122) TK Build, Co., Ltd 115,826,461 133,614,211 52,519,850 (5,935,603) Meritz-DS Fund 4,180,806 - 419 (93,720) Rhinos-Meritz fund 2 6,365,903 - (899,348) 744,083 Chungmu-ro PFV Co., Ltd. 122,521,767 154,464,329 - (26,347,585) GAHA YOU&I CO., Ltd. 2,708,250 - - (961,178) DAON CONSTRUCTION, Co., Ltd. 55,802,443 55,792,443		10,245,055	9	-	(112,432)	
Genesis North America PowerCompany 1st 34,677,955 316,463 9,858,087 (367,619) Gongpyeong 15-16 PFV 401,821,695 498,728,451 40,500 (29,169,855) OST Partners, Co., Ltd. 290,275,020 291,608,332 172,040,802 32,238,847 Rhinos-Meritz fund 7,119,180 - 1,906,605 (355,390) Higs Frontier, Co., Ltd 654 284 - 203,220 ASEAN Platform Fund No. 1 9,236,101 - 74 (155,122) TK Build, Co., Ltd 115,826,461 133,614,211 52,519,850 (5,935,603) Meritz-DS Fund 4,180,806 - 419 (93,720) Minos S	MERITZ NS GLOBAL BIO FUND	16,022,657	147,367	729,691		
Gongpyeong 15-16 PFV 401,821,695 498,728,451 40,500 (29,169,855) OST Partners, Co., Ltd. 290,275,020 291,608,332 172,040,802 32,238,847 Rhinos-Meritz fund 7,119,180 - 1,906,605 (355,390) Higs Frontier, Co., Ltd 654 284 - 203,220 ASEAN Platform Fund No. 1 9,236,101 - 74 (155,122) TK Build, Co., Ltd 115,826,461 133,614,211 52,519,850 (5,935,603) Meritz-DS Fund 4,180,806 - 419 (93,720) Rhinos-Meritz fund 2 6,365,903 - (899,348) 744,083 Chungmu-ro PFV Co., Ltd. 122,521,767 154,464,329 - (26,347,585) GAHA YOU&I CO., LTD 21,855,207 33,408,623 - (7,624,701) Hangang Landmark PFV Co., Ltd. 2,708,250 - - (961,178) DAON CONSTRUCTION, Co., Ltd. 155,802,443 55,792,443 42,379,498 1,248,181 Attila Infrastructure private equity fund I 1,624,970 15	Kclavis Meister 38th	1,046,437	9,086	55	(17,875)	
OST Partners, Co., Ltd. 290,275,020 291,608,332 172,040,802 32,238,847 Rhinos-Meritz fund 7,119,180 - 1,906,605 (355,390) Higs Frontier, Co., Ltd 654 284 - 203,220 ASEAN Platform Fund No. 1 9,236,101 - 74 (155,122) TK Build, Co., Ltd 115,826,461 133,614,211 52,519,850 (5,935,603) Meritz-DS Fund 4,180,806 - 419 (93,720) Rhinos-Meritz fund 2 6,365,903 - (899,348) 744,083 Chungmu-ro PFV Co., Ltd. 122,521,767 154,464,329 - (26,347,585) GAHA YOU&I CO., LTD 21,855,207 33,408,623 - (961,178) DAON CONSTRUCTION, Co., Ltd. 2,708,250 - - (961,178) DAON CONSTRUCTION, Co., Ltd. 1624,970 154,225 - (55,205,930) Galmae PFV Co., Ltd. 120,765,784 148,168,213 35,185,122 (30,784,265) New wave fund 2 10,931,224 - 885,236 <		34,677,955	316,463	9,858,087	(367,619)	
Rhinos-Meritz fund 7,119,180 - 1,906,605 (355,390) Higs Frontier, Co., Ltd 654 284 - 203,220 ASEAN Platform Fund No. 1 9,236,101 - 74 (155,122) TK Build, Co., Ltd 115,826,461 133,614,211 52,519,850 (5,935,603) Meritz-DS Fund 4,180,806 - 419 (93,720) Rhinos-Meritz fund 2 6,365,903 - (899,348) 744,083 Chungmu-ro PFV Co., Ltd. 122,521,767 154,464,329 - (26,347,585) GAHA YOU&I CO., LTD 21,855,207 33,408,623 - (7,624,701) Hangang Landmark PFV Co., Ltd. 2,708,250 - - (961,178) DAON CONSTRUCTION, Co., Ltd. 55,802,443 55,792,443 42,379,498 1,248,181 Attila Infrastructure private equity fund I 1,624,970 154,225 - (5,205,930) Galmae PFV Co., Ltd. 120,765,784 148,168,213 35,185,122 (30,784,265) New wave fund 2 10,931,224 - 88		401,821,695	498,728,451	40,500	(29,169,855)	
Higs Frontier, Co., Ltd 664 284 - 203,220 ASEAN Platform Fund No. 1 9,236,101 - 74 (155,122) TK Build, Co., Ltd 115,826,461 133,614,211 52,519,850 (5,935,603) Meritz-DS Fund 4,180,806 - 419 (93,720) Rhinos-Meritz fund 2 6,365,903 - (899,348) 744,083 Chungmu-ro PFV Co., Ltd. 122,521,767 154,464,329 - (26,347,585) GAHA YOU&I CO., LTD 21,855,207 33,408,623 - (961,178) DAON CONSTRUCTION, Co., Ltd. 2,708,250 - - (961,178) DAON CONSTRUCTION, Co., Ltd. 55,802,443 55,792,443 42,379,498 1,248,181 Attila Infrastructure private equity fund I 1,624,970 154,225 - (5,205,930) Galmae PFV Co., Ltd. 120,765,784 148,168,213 35,185,122 (30,784,265) New wave fund 2 10,931,224 - 885,236 779,926 Songgang Construction 47,699,287 53,241,578 <	OST Partners, Co., Ltd.	290,275,020	291,608,332	172,040,802	32,238,847	
ASEAN Platform Fund No. 1 9,236,101 - 74 (155,122) TK Build, Co., Ltd 115,826,461 133,614,211 52,519,850 (5,935,603) Meritz-DS Fund 4,180,806 - 419 (93,720) Rhinos-Meritz fund 2 6,365,903 - (899,348) 744,083 Chungmu-ro PFV Co., Ltd. 122,521,767 154,464,329 - (26,347,585) GAHA YOU&I CO., LTD 21,855,207 33,408,623 - (961,178) DAON CONSTRUCTION, Co., Ltd. 2,708,250 - (961,178) DAON CONSTRUCTION, Co., Ltd. 55,802,443 55,792,443 42,379,498 1,248,181 Attila Infrastructure private equity fund I 1,624,970 154,225 - (5,205,930) Galmae PFV Co., Ltd. 120,765,784 148,168,213 35,185,122 (30,784,265) New wave fund 2 10,931,224 - 885,236 779,926 Songgang Construction 47,699,287 53,241,578 23,866 (4,471,592) DAE-SAN ENG CO.,LTD 44,630,157 38,438,407 25,449,385 (4,535,000) Meritz Alphaview Fund 1 4,670,818 - 387 (94,646) Next V City PFV Co., Ltd. 150,265,978 150,901,495 - (5,565,611) triple space, Co., Ltd. 73,095 64,576 - 343,625 Sunu Urban Development 50,892,011 53,917,644 - (3,485,996) Meritz Kingo fund 1 4,460,770 1,862 157 (69,230) Mastern 116th Gangnam Premium PFV 805,652,949 813,380,924 - (17,687,317)		7,119,180	-	1,906,605	(355,390)	
TK Build, Co., Ltd 115,826,461 133,614,211 52,519,850 (5,935,603) Meritz-DS Fund 4,180,806 - 419 (93,720) Rhinos-Meritz fund 2 6,365,903 - (899,348) 744,083 Chungmu-ro PFV Co., Ltd. 122,521,767 154,464,329 - (26,347,585) GAHA YOU&I CO., LTD 21,855,207 33,408,623 - (76,24,701) Hangang Landmark PFV Co., Ltd. 2,708,250 - - (961,178) DAON CONSTRUCTION, Co., Ltd. 55,802,443 55,792,443 42,379,498 1,248,181 Attila Infrastructure private equity fund I 1,624,970 154,225 - (5,205,930) Galmae PFV Co., Ltd. 120,765,784 148,168,213 35,185,122 (30,784,265) New wave fund 2 10,931,224 - 885,236 779,926 Songgang Construction 47,699,287 53,241,578 23,866 (4,471,592) DAE-SAN ENG CO.,LTD 44,630,157 38,438,407 25,449,385 (4,535,000) Meritz Alphaview Fund 1 4,670,818 <td></td> <td>654</td> <td>284</td> <td>-</td> <td>203,220</td>		654	284	-	203,220	
Meritz-DS Fund 4,180,806 - 419 (93,720) Rhinos-Meritz fund 2 6,365,903 - (899,348) 744,083 Chungmu-ro PFV Co., Ltd. 122,521,767 154,464,329 - (26,347,585) GAHA YOU&I CO., LTD 21,855,207 33,408,623 - (7,624,701) Hangang Landmark PFV Co., Ltd. 2,708,250 - - (961,178) DAON CONSTRUCTION, Co., Ltd. 55,802,443 55,792,443 42,379,498 1,248,181 Attila Infrastructure private equity fund I 1,624,970 154,225 - (5,205,930) Galmae PFV Co., Ltd. 120,765,784 148,168,213 35,185,122 (30,784,265) New wave fund 2 10,931,224 - 885,236 779,926 Songgang Construction 47,699,287 53,241,578 23,866 (4,471,592) DAE-SAN ENG CO.,LTD 44,630,157 38,438,407 25,449,385 (4,535,000) Meritz Alphaview Fund 1 4,670,818 - 387 (94,646) Next V City PFV Co., Ltd. 150,265,978 <t< td=""><td></td><td>9,236,101</td><td>-</td><td>74</td><td>(155,122)</td></t<>		9,236,101	-	74	(155,122)	
Rhinos-Meritz fund 2 6,365,903 - (899,348) 744,083 Chungmu-ro PFV Co., Ltd. 122,521,767 154,464,329 - (26,347,585) GAHA YOU&I CO., LTD 21,855,207 33,408,623 - (7,624,701) Hangang Landmark PFV Co., Ltd. 2,708,250 - - - (961,178) DAON CONSTRUCTION, Co., Ltd. 55,802,443 55,792,443 42,379,498 1,248,181 Attila Infrastructure private equity fund I 1,624,970 154,225 - (5,205,930) Galmae PFV Co., Ltd. 120,765,784 148,168,213 35,185,122 (30,784,265) New wave fund 2 10,931,224 - 885,236 779,926 Songgang Construction 47,699,287 53,241,578 23,866 (4,471,592) DAE-SAN ENG CO.,LTD 44,630,157 38,438,407 25,449,385 (4,535,000) Meritz Alphaview Fund 1 4,670,818 - 387 (94,646) Next V City PFV Co., Ltd. 150,265,978 150,901,495 - (5,365,611) triple space, Co., Ltd. <td></td> <td>115,826,461</td> <td>133,614,211</td> <td>52,519,850</td> <td>(5,935,603)</td>		115,826,461	133,614,211	52,519,850	(5,935,603)	
Chungmu-ro PFV Co., Ltd. 122,521,767 154,464,329 - (26,347,585) GAHA YOU&I CO., LTD 21,855,207 33,408,623 - (7,624,701) Hangang Landmark PFV Co., Ltd. 2,708,250 - - (961,178) DAON CONSTRUCTION, Co., Ltd. 55,802,443 55,792,443 42,379,498 1,248,181 Attila Infrastructure private equity fund I 1,624,970 154,225 - (5,205,930) Galmae PFV Co., Ltd. 120,765,784 148,168,213 35,185,122 (30,784,265) New wave fund 2 10,931,224 - 885,236 779,926 Songgang Construction 47,699,287 53,241,578 23,866 (4,471,592) DAE-SAN ENG CO.,LTD 44,630,157 38,438,407 25,449,385 (4,535,000) Meritz Alphaview Fund 1 4,670,818 - 387 (94,646) Next V City PFV Co., Ltd. 150,265,978 150,901,495 - (5,365,611) triple space, Co., Ltd. 73,095 64,576 - 343,625 Sunu Urban Development 50,892,01		4,180,806	-	419	(93,720)	
GAHA YOU&I CO., LTD 21,855,207 33,408,623 - (7,624,701) Hangang Landmark PFV Co., Ltd. 2,708,250 - - - (961,178) DAON CONSTRUCTION, Co., Ltd. 55,802,443 55,792,443 42,379,498 1,248,181 Attila Infrastructure private equity fund I 1,624,970 154,225 - (5,205,930) Galmae PFV Co., Ltd. 120,765,784 148,168,213 35,185,122 (30,784,265) New wave fund 2 10,931,224 - 885,236 779,926 Songgang Construction 47,699,287 53,241,578 23,866 (4,471,592) DAE-SAN ENG CO.,LTD 44,630,157 38,438,407 25,449,385 (4,535,000) Meritz Alphaview Fund 1 4,670,818 - 387 (94,646) Next V City PFV Co., Ltd. 150,265,978 150,901,495 - (5,365,611) triple space, Co., Ltd. 73,095 64,576 - 343,625 Sunu Urban Development 50,892,011 53,917,644 - (3,485,996) Meritz Kingo fund 1 <t< td=""><td></td><td></td><td>-</td><td>(899,348)</td><td>744,083</td></t<>			-	(899,348)	744,083	
Hangang Landmark PFV Co., Ltd. 2,708,250 (961,178) DAON CONSTRUCTION, Co., Ltd. 55,802,443 55,792,443 42,379,498 1,248,181 Attila Infrastructure private equity fund I 1,624,970 154,225 - (5,205,930) Galmae PFV Co., Ltd. 120,765,784 148,168,213 35,185,122 (30,784,265) New wave fund 2 10,931,224 - 885,236 779,926 Songgang Construction 47,699,287 53,241,578 23,866 (4,471,592) DAE-SAN ENG CO.,LTD 44,630,157 38,438,407 25,449,385 (4,535,000) Meritz Alphaview Fund 1 4,670,818 - 387 (94,646) Next V City PFV Co., Ltd. 150,265,978 150,901,495 - (5,365,611) triple space, Co., Ltd. 73,095 64,576 - 343,625 Sunu Urban Development 50,892,011 53,917,644 - (3,485,996) Meritz Kingo fund 1 12,253,316 - 651 (247,478) Meritz Kclavis fund 1 4,460,770 1,862 157 (69,230) Mastern 116th Gangnam Premium PFV 805,652,949 813,380,924 - (17,687,317)			, ,	-		
DAON CONSTRUCTION, Co., Ltd. 55,802,443 55,792,443 42,379,498 1,248,181 Attila Infrastructure private equity fund I 1,624,970 154,225 - (5,205,930) Galmae PFV Co., Ltd. 120,765,784 148,168,213 35,185,122 (30,784,265) New wave fund 2 10,931,224 - 885,236 779,926 Songgang Construction 47,699,287 53,241,578 23,866 (4,471,592) DAE-SAN ENG CO.,LTD 44,630,157 38,438,407 25,449,385 (4,535,000) Meritz Alphaview Fund 1 4,670,818 - 387 (94,646) Next V City PFV Co., Ltd. 150,265,978 150,901,495 - (5,365,611) triple space, Co., Ltd. 73,095 64,576 - 343,625 Sunu Urban Development 50,892,011 53,917,644 - (3,485,996) Meritz Kingo fund 1 4,460,770 1,862 157 (69,230) Mastern 116th Gangnam Premium PFV 805,652,949 813,380,924 - (17,687,317)	•	21,855,207	33,408,623	-		
Attila Infrastructure private equity fund I 1,624,970 154,225 - (5,205,930) Galmae PFV Co., Ltd. 120,765,784 148,168,213 35,185,122 (30,784,265) New wave fund 2 10,931,224 - 885,236 779,926 Songgang Construction 47,699,287 53,241,578 23,866 (4,471,592) DAE-SAN ENG CO.,LTD 44,630,157 38,438,407 25,449,385 (4,535,000) Meritz Alphaview Fund 1 4,670,818 - 387 (94,646) Next V City PFV Co., Ltd. 150,265,978 150,901,495 - (5,365,611) triple space, Co., Ltd. 73,095 64,576 - 343,625 Sunu Urban Development 50,892,011 53,917,644 - (3,485,996) Meritz Kingo fund 1 12,253,316 - 651 (247,478) Meritz Kclavis fund 1 4,460,770 1,862 157 (69,230) Mastern 116th Gangnam Premium PFV 805,652,949 813,380,924 - (17,687,317)		2,708,250	-	-	(961,178)	
Galmae PFV Co., Ltd. 120,765,784 148,168,213 35,185,122 (30,784,265) New wave fund 2 10,931,224 - 885,236 779,926 Songgang Construction 47,699,287 53,241,578 23,866 (4,471,592) DAE-SAN ENG CO.,LTD 44,630,157 38,438,407 25,449,385 (4,535,000) Meritz Alphaview Fund 1 4,670,818 - 387 (94,646) Next V City PFV Co., Ltd. 150,265,978 150,901,495 - (5,365,611) triple space, Co., Ltd. 73,095 64,576 - 343,625 Sunu Urban Development 50,892,011 53,917,644 - (3,485,996) Meritz Kingo fund 1 12,253,316 - 651 (247,478) Meritz Kclavis fund 1 4,460,770 1,862 157 (69,230) Mastern 116th Gangnam Premium PFV 805,652,949 813,380,924 - (17,687,317)		55,802,443	55,792,443	42,379,498	1,248,181	
New wave fund 2 10,931,224 - 885,236 779,926 Songgang Construction 47,699,287 53,241,578 23,866 (4,471,592) DAE-SAN ENG CO.,LTD 44,630,157 38,438,407 25,449,385 (4,535,000) Meritz Alphaview Fund 1 4,670,818 - 387 (94,646) Next V City PFV Co., Ltd. 150,265,978 150,901,495 - (5,365,611) triple space, Co., Ltd. 73,095 64,576 - 343,625 Sunu Urban Development 50,892,011 53,917,644 - (3,485,996) Meritz Kingo fund 1 12,253,316 - 651 (247,478) Meritz Kclavis fund 1 4,460,770 1,862 157 (69,230) Mastern 116th Gangnam Premium PFV 805,652,949 813,380,924 - (17,687,317)				-		
Songgang Construction 47,699,287 53,241,578 23,866 (4,471,592) DAE-SAN ENG CO.,LTD 44,630,157 38,438,407 25,449,385 (4,535,000) Meritz Alphaview Fund 1 4,670,818 - 387 (94,646) Next V City PFV Co., Ltd. 150,265,978 150,901,495 - (5,365,611) triple space, Co., Ltd. 73,095 64,576 - 343,625 Sunu Urban Development 50,892,011 53,917,644 - (3,485,996) Meritz Kingo fund 1 12,253,316 - 651 (247,478) Meritz Kclavis fund 1 4,460,770 1,862 157 (69,230) Mastern 116th Gangnam Premium PFV 805,652,949 813,380,924 - (17,687,317)		120,765,784	148,168,213	35,185,122		
DAE-SAN ENG CO.,LTD 44,630,157 38,438,407 25,449,385 (4,535,000) Meritz Alphaview Fund 1 4,670,818 - 387 (94,646) Next V City PFV Co., Ltd. 150,265,978 150,901,495 - (5,365,611) triple space, Co., Ltd. 73,095 64,576 - 343,625 Sunu Urban Development 50,892,011 53,917,644 - (3,485,996) Meritz Kingo fund 1 12,253,316 - 651 (247,478) Meritz Kclavis fund 1 4,460,770 1,862 157 (69,230) Mastern 116th Gangnam Premium PFV 805,652,949 813,380,924 - (17,687,317)			-	·		
Meritz Alphaview Fund 1 4,670,818 - 387 (94,646) Next V City PFV Co., Ltd. 150,265,978 150,901,495 - (5,365,611) triple space, Co., Ltd. 73,095 64,576 - 343,625 Sunu Urban Development 50,892,011 53,917,644 - (3,485,996) Meritz Kingo fund 1 12,253,316 - 651 (247,478) Meritz Kclavis fund 1 4,460,770 1,862 157 (69,230) Mastern 116th Gangnam Premium PFV 805,652,949 813,380,924 - (17,687,317)						
Next V City PFV Co., Ltd. 150,265,978 150,901,495 - (5,365,611) triple space, Co., Ltd. 73,095 64,576 - 343,625 Sunu Urban Development 50,892,011 53,917,644 - (3,485,996) Meritz Kingo fund 1 12,253,316 - 651 (247,478) Meritz Kclavis fund 1 4,460,770 1,862 157 (69,230) Mastern 116th Gangnam Premium PFV 805,652,949 813,380,924 - (17,687,317)		44,630,157	38,438,407		(4,535,000)	
triple space, Co., Ltd. 73,095 64,576 - 343,625 Sunu Urban Development 50,892,011 53,917,644 - (3,485,996) Meritz Kingo fund 1 12,253,316 - 651 (247,478) Meritz Kclavis fund 1 4,460,770 1,862 157 (69,230) Mastern 116th Gangnam Premium PFV 805,652,949 813,380,924 - (17,687,317)	•		-	387		
Sunu Urban Development 50,892,011 53,917,644 - (3,485,996) Meritz Kingo fund 1 12,253,316 - 651 (247,478) Meritz Kclavis fund 1 4,460,770 1,862 157 (69,230) Mastern 116th Gangnam Premium PFV 805,652,949 813,380,924 - (17,687,317)	•			-		
Meritz Kingo fund 1 12,253,316 - 651 (247,478) Meritz Kclavis fund 1 4,460,770 1,862 157 (69,230) Mastern 116th Gangnam Premium PFV 805,652,949 813,380,924 - (17,687,317)				-		
Meritz Kclavis fund 1 4,460,770 1,862 157 (69,230) Mastern 116th Gangnam Premium PFV 805,652,949 813,380,924 - (17,687,317)			53,917,644	-		
Mastern 116th Gangnam Premium PFV 805,652,949 813,380,924 - (17,687,317)			-			
				157	,	
			813,380,924	-		
Meritz Alphaview Fund 2 25,763,859 - 1,169 (5,236,141)	·		-	1,169		
SMDNC 21,793,614 22,583,823 - (790,308)				-		
Anseong Seongeun logistics PFV Co. Ltd 27,558,826 18,860,145 - (1,301,319)				-		
DM METAL 41,434,761 41,434,761 6,731,794 (4,100,000)				6,731,794		
Handaritz 9,264,563 9,155,837 - (193,174)	mandaritz	9,264,563	9,155,837	-	(193,174)	

10.3. Condensed financial statements as of December 31, 2021 and 2020 and for the years then ended are as follows (in thousands of Korean won) (cont'd):

		December	31, 2021	
Associates	Assets	Liabilities	Revenue	Net profit(loss)
Meritz GoldenEgg Fund1	₩ 7,284,371	₩ -	₩ 353	₩ (115,629)
S R Industrial Co., Ltd	18,678,335	19,561,193	-	(894,623)
Sinchon 2-7	11,464,770	7,853,822	2,850	(1,389,052)
Dowon Corporation	15,017,314	15,007,009	-	(277,237)
SW-RN Fund	3,261,149	1,464	-	(40,315)
YKOSAN PFV	173,565,628	188,024,880	-	(19,459,252)
NH-Meritz Contents 1 Fund	20,686,980	-	-	(1,313,020)
Meritz Hyundai Investment Partners	25,589,514	192,814	55	(253,300)
Daehoon Partners Corp.	17,128,019	17,148,797	-	(20,878)
JQ	7,843,565	8,127,658	-	(284,193)
Hanyang-Meritz 1 Fund	15,422,614	-	285	(77,386)
Heung Young Industrial Development	20,753,390	21,178,184	-	(425,893)
The First Porte 2	44,945,649	48,332,250	-	(3,396,601)
KAI-Veritas Venture Fund 1	4,476,885	990	635	(34,105)
KI CHUNGPYUNG	22,923,848	21,697,695	-	(3,773,846)
BUG Logistics Project Finance Investment	21,641,600	17,100,000	-	(458,400)
Hangang Eco	500,000	-	-	-
JUN GEUM Construction Co., Ltd	869,611	7,352,360	-	(6,782,749)
Cornerstone Mutual Growth Vill Fund	2,711,984	-	93	(18,016)
Gimhae Daedong Smart Logistics Corp	21,952,886	15,062,055	-	(859,169)
KR Seocho Co., Ltd.	6,010,000	-	-	-
COSMOS	2,846,032	3,037,674	-	(221,642)
Hanwha-Pentastone I Funds	6,579,896	-	69	(20,104)
Meritz-AssetOne 1 Partners	15,576,814	-	92	(23,186)
Dongtan Triple Space	67,754,479	68,073,196	-	(328,716)
Hanyang-Pentastone Hi-tech I Funds	6,990,093	-	-	(9,907)
Meritz-NH healthcare 1 Fund	15,492,403	-	103	(7,597)
Meritz-SNP 1 Fund	22,500,023	-	23	23
Yuamkopain wood Enterprise Financial	40.040.075	100.074	700.045	(400,000)
Stability corporate Investment Limited PA Hyundai Ufirst Private Placement Fund	40,212,275	403,271	783,915	(433,069)
No.32	82,517,581	37,992	12,765,019	10,018,932
AIP Euro Green Private Real Estate	,,	,		,,
Investment Trust 7th	172,699,125	926	91,319,601	13,373,316
AIP Euro Green Private Real Estate Investment Trust 8th	04 407 540	107 772	26 495 040	17 400 761
Kiwoom Milestone US Professional Private	84,187,548	107,773	26,485,910	17,499,761
Real Estate Trust 18	64,214,891	6,277	41,513,643	6,329,953
Midas Global DEBT Private Real Estate		·		
Investment Trust 6th	117,743,467	70,257	9,392,778	7,540,029
UP Global Private Real Estate Fund VI	58,076,611	35,463	13,967,323	3,561,960
NH Presidio Investments LLC(*)	58,226,856	28,633	32,356,515	32,350,133
IGIS Global Private Real Estate Investment Trust 301	645,285,979	41,018,475	110,932,398	102,140,776
Edelweiss Alternative Solutions Trust(*)	318,303,244	1,471,075	17,496,325	13,989,641
IGIS US Private Real Estate Investment	310,303,244	1,471,073	17,490,323	13,909,041
Trust 292	197,298,560	13,312,319	8,919,684	10,273,668
IGIS US Private Real Estate Investment				
Trust 266 PIA Private Real Estate Investment Trust	161,404,492	10,366,231	13,547,635	13,634,707
No. 6-1	245,574,283	40,898	81,520,016	(1,326,071)
PIA Private Real Estate Investment Trust	2 10,07 1,200	10,000	01,020,010	(1,020,011)
No. 6-2	28,659,544	18,641	9,099,227	540,894
Shinhan AIM Real Estate Fund No. 22-A	41,038,123	5,614	7,729,128	2,166,991
IGIS Global Private Real Estate Investment	00 404 000	740 700	0.740.007	0.470.007
Trust 434 Consus Osan Segyo Private Real Estate	66,104,628	712,723	9,740,067	8,472,907
Fund	6,650,043	257,797	12,719	10,527
		, -	,	•

^(*) This is the consolidated financial information as of September 30, 2021 and for the nine months then ended.

10.3. Condensed financial statements as of December 31, 2021 and 2020 and for the years then ended are as follows (in thousands of Korean won) (cont'd):

	December 31, 2020					
Associates	Assets	Liabilities	Revenue	Net profit(loss)		
Korea Asset Classic Private Investment						
Trust 2nd	₩ 3,990,924	₩ 2,321	₩ 1,095,868	₩ 947,697		
Airplane fund 5	66,637,482	33,566	23,798,628	(115,138,922)		
Airplane fund 6	19,242	19,242	5,895,474	(111,758,658)		
Meritz Professional Private Real Estate Investment Trust 8th	36,478,767	9,368	10,326,738	1,170,240		
Meritz Professional Private Real Estate	30,470,707	9,300	10,320,730	1,170,240		
Investment Trust 7th	80,330,107	23,018	12,652,531	3,262,858		
M Plus Sky Private Investment Trust 4th	37,785,686	222	3,131,792	1,946,811		
Heungguk Flight Private Investment Trust 10th	127,311,842	19,658	37,377,274	(14,027,875)		
Heungguk Flight Private Investment Trust 11th	1,904	1,904	3,406,973	(16,714,410)		
Al Partners Energy Infra Private Investment Trust 1st	38,027,040	28,049	15,533,650	358,872		
Heungguk Flight Private Investment Trust		·				
12th Heungguk Flight Private Investment Trust	179,735,695	161,562	17,969,575	(36,485,885)		
13th Mastern Europe Real Estate Investment	5,057,853	50,906	710,522	(19,644,136)		
Trust 5th Mastern Europe Real Estate Investment	91,267,556	219,648	22,128,253	(101,679,417)		
Trust 10th	237,900,331	265,876	50,063,697	24,211,167		
JB IPO Private Fund Trustee 3 I	3,827,156	3,227	1,088,006	1,015,090		
Asia growth 1st private equity Investment						
Limited Partnership	10,357,478	-		(112,128)		
MERITZ NS GLOBAL BIO FUND	12,788,513	147,237	5,449,739	4,833,519		
Kclavis Meister 38th	1,064,312	9,086	73	(17,877)		
Genesis North America PowerCompany 1st	43,955,834	243,542	2,722,866	2,194,283		
Gongpyeong 15-16 PFV	401,693,104	469,430,006	53,081	(57,110,489)		
OST Partners, Co., Ltd.	133,948,339	155,522,461	15,804,326	(8,776,169)		
Rhinos-Meritz fund	9,770,892	-	2,730,946	(1,256,003)		
Higs Frontier, Co., Ltd	2,502,698	2,705,548	-	(124,419)		
ASEAN Platform Fund No. 1	9,391,223	-	261	(158,371)		
TK Build, Co., Ltd	123,965,667	135,817,814	-	(11,723,930)		
Meritz-DS Fund	4,274,526	-	1,394	(104,301)		
Rhinos-Meritz fund 2	5,621,820	-	-	900,929		
Bric-Orbit 8th New Technology Investment Union	5,029,541		386,983	332,229		
Cheongna Logistics, Co., Ltd.	18,889,609	20,360,339	300,903	(1,007,792)		
KCGI Private Equity Fund 1-12			- 272	·		
Chungmu-ro PFV Co., Ltd	49,906,498	602,000	273	(760,237)		
GAHA YOU&I CO., LTD	90,045,421	95,640,398	-	(10,594,977)		
Hangang Landmark PFV Co., Ltd.	11,796,412	15,725,126	-	(4,648,414)		
DAON CONSTRUCTION, Co., Ltd	2,789,508	40.074.454	4 004 005	(2,210,492)		
Attila Infrastructure Private Equity Fund I	48,636,270	49,874,451	1,234,905	(1,248,181)		
. ,	6,789,375	112,700	-	(4,486)		
Galmae PFV Co., Ltd. New wave fund 2	70,604,601	67,222,764	- 00.775	(1,618,163)		
	10,151,298		23,775	(58,702)		
Songgang Construction	28,224,596	29,295,295	-	(1,370,699)		
DAE-SAN ENG CO.,LTD	49,252,925	44,717,925	-	(04.500)		
Meritz Alphaview fund 1	4,765,464	-	122	(24,536)		
Next V City PFV Co., Ltd.	34,730,095	30,000,000	-	(269,905)		
triple space, Co., Ltd.	8,253,045	8,588,151	-	(335,206)		
Star Hub Seungdoo Development	4,050,400	4,076,230	-	(25,930)		
Meritz Kingo fund 1	12,500,795	-	-	(9,205)		
Meritz Kolavis fund 1	4,530,000	1,862	-	(1,862)		
Yuamkopain wood Enterprise Financial Stability corporate Investment Limited PA Hyundai Ufirst Private Placement Fund	57,382,286	428,484	1,441,170	556,948		
No.32	77,401,671	127,015	1,892	2,274,656		

10.3. Condensed financial statements as of December 31, 2021 and 2020 and for the years then ended are as follows (in thousands of Korean won) (cont'd):

	December 31, 2020							
Associates		Assets		Liabilities		Revenue	Net profit(loss)	
AIP Euro Green Private Real Estate Investment Trust 7th AIP Euro Green Private Real Estate	₩	172,709,118	₩	977	₩	49,916,197	₩	16,858,782
Investment Trust 8th Kiwoom Milestone US Professional Private		65,849,807		106,851		13,868,485		5,628,459
Real Estate Trust 18 Midas Global DEBT Private Real Estate		159,711,045		12,973		71,578,139		6,836,038
Investment Trust 6th IGIS Global Private Real Estate Investment		116,833,471		139,188		9,458,933		6,797,813
Trust 254		125,029,819		3,493,014		23,611,752		7,026,331
UP Global Private Real Estate Fund VI		59,803,238		36,650		13,383,714		4,198,560
NH Presidio Investments LLC(*) Mastern Private Real Estate Investment		117,921,138		10,826		-		5,551,369
Trust 61th IGIS Global Private Real Estate Investment		20,973,434		5,678,023		1,923		(82,052)
Trust 301		457,459,598		5,724,296		130,067,674		45,674,696
Edelweiss Alternative Solutions Trust(*) PineStreet Global Corporate Finance PEF		271,434,960		1,286,116		30,345,003		28,065,984
Trust No.2 IGIS US Private Real Estate Investment		268,054,622		230,907		14,348,288		13,305,789
Trust 292 IGIS US Private Real Estate Investment		188,429,531		32,146		87,317,186		9,554,835
Trust 266		110,944,931		10,910		29,908,199		5,549,594
Pacific Private Placement REF 36 Germany Office Real Estate Private		56,522,701		20,084		12,490,156		6,226,126
Placement Fund No.28 PIA Private Real Estate Investment Trust		23,130,140		57,943		4,198,121		2,193,546
No. 6-1 PIA Private Real Estate Investment Trust		279,475,321		157,094		51,805,582		13,893,912
No. 6-2 WooriG Professional Investor's Private Real		93,248,753		71,799		35,261,290		6,378,479
Estate Investment Trust No. 2		71,500,000		1,961		-		(1,961)

^(*) This is the consolidated financial information as of September 30, 2020 and for the nine months then ended.

11. Loans

11.1. Details of loans as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

			December 31, 2021		
			Allowance for		
		Face value	credit losses		Book value
Loans:					
RP purchased	₩	2,378,085,062	₩ -	₩	2,378,085,062
Brokers' loan		1,277,368,901	(1,520,770)		1,275,848,131
Loans to employees		3,668,910	(68,673)		3,600,237
Loans		10,813,822,686	(156,394,514)		10,657,428,172
Loans purchased		-	-		-
Privately-placed corporate bonds		-	-		-
Payment on behalf of another					
company		3,636,044	(3,636,044)		-
Deferred loan fees		(12,489,936)			(12,489,936)
	₩	14,464,091,667	₩ (161,620,001)	₩	14,302,471,666
			December 31, 2020		
		_	Allowance for		
		Face value	credit losses		Book value
Loans:					
RP purchased	₩	2,133,333,578	₩ -	₩	2,133,333,578
Brokers' loan		662,644,355	(1,520,770)		661,123,585
Loans to employees		3,614,641	(68,673)		3,545,968
Loans		8,574,535,931	(187,268,138)		8,387,267,793
Loans purchased		2,000	(65)		1,935
Privately-placed corporate bonds Payment on behalf of another		5,200,000	(308,579)		4,891,421
company		3,636,044	(3,636,044)		_
Deferred loan fees		(12,508,903)	(0,000,011)		(12,508,903)
	₩	11,370,457,646	₩ (192,802,269)	₩	11,177,655,377

11.2. Brokers' loans

The Group provides loans to clients who either make margin transactions for purchasing securities or entrust their investment securities to the Group and records them as credit loans granted and loans secured by securities, respectively. Credit loans granted are secured with the securities purchased by clients and cash in clients' deposit account, which amount to 140 - 150% of the original loan. When the collateral value is insufficient to secure the loan and its accrued income, the Group requests for additional collateral cash or securities.

In addition, the Group asks for an opening guarantee deposit in connection with brokers' loans and the deposits are recorded as a liability item guarantee deposit received.

11.3. Residual maturity profiles of debt securities as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	December 31, 2021		De	cember 31, 2020
No later than 1 year	₩	8,591,567,163	₩	5,845,648,425
After 1 year but no later than 3 years		2,794,208,216		3,183,209,154
After 1 year but no later than 5 years		2,383,410,043	1,714,177,932	
After 5 years		707,396,181		639,931,038
	₩ 14,476,581,603		₩	11,382,966,549

^(*) Loans related to incident expense of deferred loans is excluded.

11.4. Changes in allowance for possible loan losses for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

				Year ended D	ece	mber 31, 2021		
		onth expected edit losses		etime expected credit losses	ı	Impaired loans Lifetime expected credit losses		Total
Beginning balance Transfer to 12 month	₩	70,647,310	₩	13,215,885	₩	108,939,074	₩	192,802,269
expected credit losses Transfer to lifetime expected		2,734,099		(2,734,099)		-		-
credit losses Transfer to Impaired loans lifetime expected credit		(2,516,165)		2,546,158		(29,993)		-
losses		(1,365,271)		(1,244,814)		2,610,085		-
Bad debts written off Collection of loans written-		-		-		(67,301,302)		(67,301,302)
off in prior periods		-		-		4,691,202		4,691,202
Conversion of investment		-		-		(7,554,072)		(7,554,072)
Unwinding effect Provision (reversal) for		-		-		(8,717,821)		(8,717,821)
allowance		24,298,315		1,924,481		21,476,929		47,699,725
Ending balance	₩	93,798,288	₩	13,707,611	₩	54,114,102	₩	161,620,001

		Year ended December 31, 2020						
		onth expected edit losses		ime expected edit losses	Life	npaired loans etime expected credit losses		Total
Beginning balance	₩	79,157,836	₩	22,637,536	₩	95,110,730	₩	196,906,102
Transfer to 12 month expected credit losses Transfer to lifetime expected		2,004,724		(2,004,724)		-		-
credit losses Transfer to Impaired loans lifetime expected credit		(2,477,423)		2,482,332		(4,909)		-
losses		(2,691,118)		(9,806,097)		12,497,215		-
Bad debts written off Collection of loans written-		-		-		(60,862,882)		(60,862,882)
off in prior periods		-		-		3,209,329		3,209,329
Utilized		-		-		(1,297,640)		(1,297,640)
Unwinding effect Provision (reversal) for		-		-		(7,143,859)		(7,143,859)
allowance		(5,346,709)		(93,162)		67,431,090		61,991,219
Ending balance	W	70,647,310	₩	13,215,885	₩	108,939,074	₩	192,802,269

11.5. Changes in gross book value for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended December 31, 2021					
		Lifetime	Impaired loans			
	12 month expected	expected credit	Lifetime expected			
	credit losses	losses	credit losses	Total		
Beginning balance Transfer to 12 month expected	₩ 10,620,090,115	₩ 359,497,431	₩ 403,379,003	₩ 11,382,966,549		
credit losses	78,706,825	(78,706,825)	-	-		
Transfer to lifetime expected credit losses	(180,843,527)	180,892,173	(48,646)	-		
Transfer to impaired loans lifetime expected credit						
losses	(59,345,096)	(9,335,018)	68,680,114	-		
Execution and collection Foreign transactions and	3,127,993,698	(42,040,331)	69,216,429	3,155,169,796		
Other changes	5,746,560	-	(67,301,302)	(61,554,742)		
Ending balance	₩ 13,592,348,575	₩ 410,307,430		₩ 14,476,581,603		
			cember 31, 2020			
	40	Lifetime	Impaired loans			
	12 month expected	expected credit	Lifetime expected	Tatal		
	credit losses	losses	credit losses	Total		
Beginning balance Transfer to 12 month expected	₩ 12,105,791,976	₩ 528,172,390	₩ 358,620,368	₩ 12,992,584,734		
credit losses Transfer to lifetime expected	99,231,199	(99,231,199)	-	-		
credit losses Transfer to impaired loans	(168,271,613)	168,278,693	(7,080)	-		
lifetime expected credit	()	// / - / - /				
losses	(90,956,397)	(130,551,018)	221,507,415	-		
Execution and collection Foreign transactions and	(1,318,800,366)	(107,171,435)	(115,878,819)	(1,541,850,620)		
Other changes	(0.004.004)		(00,000,004)	(67 767 EGE)		
Other changes	(6,904,684)		(60,862,881)	(67,767,565)		

11.6. Changes in incidental income or incident expense of deferred loans for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		Year ended December 31, 2021							
			Inco	ome or expense				Ending	
	Beg	inning balance		incurred		Depreciation		balance	
Incidental income	₩	(41,325,002)	₩	(44,492,200)	₩	44,695,867	₩	(41,121,335)	
Incidental expense		28,816,099		26,865,462		(27,050,162)		28,631,399	
	₩	(12,508,903)	₩	(17,626,738)	₩	17,645,705	₩	(12,489,936)	
				Year ended Dece	ember	· 31, 2020			
			Inco	ome or expense				Ending	
	Beg	inning balance		incurred		Depreciation		balance	
Incidental income	₩	(65,488,044)	₩	(42,833,037)	₩	66,996,079	₩	(41,325,002)	
Incidental expense		40,987,241		18,357,418		(30,528,560)		28,816,099	
	₩	(24,500,803)	₩	(24,475,619)	₩	36,467,519	₩_	(12,508,903)	

11.7. Gain (loss) related to loans for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		ear ended nber 31, 2021	Year ended December 31, 2020		
Gain on disposal of loans	₩	₩ 9,330,755		10,618,322	
Others		1,519,862		802,132	
		10,850,617		11,420,454	
Loss on disposal of loans		(216,883)		(5,976,546)	
Provision for doubtful accounts		(47,699,724)		(61,991,219)	
		(47,916,607)		(67,967,765)	
	₩	(37,065,990)	₩	(56,547,311)	

12. Lease

12.1. Details of lease assets as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		Decembe	er 31, 2021	
	Acquisition cost	Allowance for lease	Accumulated depreciation	Book value
Financial lease Operating lease Advances for acquisition	₩ 1,043,577,708 674,233,071	₩ (5,554,287)	₩ - (157,351,649)	₩ 1,038,023,421 516,881,422
of assets to be leased	4,631,643			4,631,643
	₩ 1,722,442,422	₩ (5,554,287)	₩ (157,351,649)	₩ 1,559,536,486
		Decembe	er 31, 2020	
	Acquisition cost	Allowance for lease	Accumulated depreciation	Book value
Financial lease Operating lease Advances for acquisition	₩ 916,018,540 510,829,860	₩ (7,671,158) -	₩ - (124,155,645)	₩ 908,347,382 386,674,215
of assets to be leased	5,277,353			5,277,353
	₩ 1,432,125,753	₩ (7,671,158)	₩ (124,155,645)	₩ 1,300,298,950

12.2. Details of total lease investment and the present value of minimum financial lease as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		December 31, 2021				December 31, 2020				
		Total lease		Minimum Total lease				Minimum		
		investment	nvestment financial lease			investment	financial lease			
No later than 1 year	₩	115,332,234	₩	114,228,509	₩	123,134,519	₩	122,027,163		
After 1 year but no later than 5 years		922,731,399		900,121,462		789,661,299		768,445,970		
After 5 years		7,989,707		7,633,172		5,492,668		5,224,803		
	₩	1,046,053,340	₩	1,021,983,143	₩	918,288,486	₩	895,697,936		

12.3. Unearned interests of financial lease as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	December 31, 2021			ecember 31, 2020
Total lease investment	₩	1,046,053,340	₩	918,288,486
Net lease investment		1,043,577,708		916,018,540
Unearned interest	₩	2,475,632	₩	2,269,946

12.4. Unsecured residual value of financial lease as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

Decembe	er 31, 2021	Dec	ember 31, 2020
₩	972,728	₩	3,049,771

12.5. The estimated future operating lease revenues as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Decei	mber 31, 2021	December 31, 2020		
No later than 1 year	₩	53,826,428	₩	51,241,790	
After 1 year but no later than 5 years		468,591,903		342,120,800	
After 5 years		607,915		656,926	
	₩	523,026,246	₩	394,019,516	

12.6. Changes in allowance for lease for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

			Y	ear ended Dece	ember	31, 2021		
		nth expected dit losses		me expected edit losses	Lifeti	paired loans me expected edit losses		Total
Beginning balance	₩	2,150,581	₩	1,314,717	₩	4,205,860	₩	7,671,158
Transfer to 12 month expected								
credit losses		168,450		(168,450)		-		-
Transfer to lifetime expected								
credit losses		(163,043)		163,043		-		-
Transfer to lifetime Impaired loans Lifetime expected credit								
losses		(8,267)		(257,147)		265,414		-
Bad debts written off		· -		· -		(3,623,708)		(3,623,708)
Recovery of amortized bond		-		-		332,643		332,643
Disposal		-		-		-		-
Unwinding effect		-		-		(110,825)		(110,825)
Provision (reversal) for						,		
allowance`		(2,758)		(81,710)		1,369,487		1,285,019
Ending balance	₩	2,144,963	₩	970,453	₩	2,438,871	₩	5,554,287

			Ye	ear ended Dec	ember	31, 2020		
		nth expected dit losses		ne expected dit losses	Lifeti	paired loans me expected edit losses	Total	
Beginning balance Transfer to 12 month expected	₩	2,593,059	₩	1,764,016	₩	6,533,063	₩	10,890,138
credit losses		148,334		(148,334)		-		-
Transfer to lifetime expected								
credit losses		(194,073)		194,073		-		-
Transfer to lifetime Impaired loans Lifetime expected credit								
losses		(22,563)		(443,039)		465,602		-
Bad debts written off		-		-		(3,701,555)		(3,701,555)
Recovery of amortized bond		-		-		421,947		421,947
Disposal		-		-		(799,284)		(799,284)
Unwinding effect		-		-		(271,534)		(271,534)
Provision (reversal) for								
allowance		(374,176)		(51,999)		1,557,621		1,131,446
Ending balance	₩	2,150,581	₩	1,314,717	₩	4,205,860	₩	7,671,158

12.7. Changes in gross book values in lease assets for the year ended December 31, 2021 and 2020 is as follows (in thousands of Korean won):

			Υ	ear ended Dec	cem	ber 31, 2021						
		12 month			lı	mpaired loans						
		expected credit losses		Lifetime expected credit losses		etime expected credit losses	Total					
Beginning balance	₩	732,589,004	₩	177,239,480	₩	6,190,056	₩	916,018,540				
Transfer to 12 month expected credit losses		26,926,944		(26,926,944)		-		-				
Transfer to lifetime expected credit losses		(45,303,235)		45,303,235		-		-				
Transfer to impaired loans												
lifetime expected credit losses		(1,708,043)		(3,159,415)		4,867,458		-				
Execution and collection		130,536,828		5,216,055		(4,570,007)		131,182,876				
Foreign transactions and other changes		-		-		(3,623,708)		(3,623,708)				
Ending balance	₩	843,041,498	₩	197,672,411	₩	2,863,799	₩	1,043,577,708				

		Year ended Ded	cember 31, 2020						
	12 month		Impaired loans						
	expected credit	Lifetime expected	Lifetime expected						
	losses	credit losses	credit losses	Total					
Beginning balance	₩ 807,056,377	₩ 190,506,128	₩ 17,439,267	₩ 1,015,001,772					
Transfer to 12 month expected									
credit losses	22,156,760	(22,156,760)	-	-					
Transfer to lifetime expected									
credit losses	(53,514,592)	53,514,592	-	-					
Transfer to impaired loans									
lifetime expected credit losses	(2,545,052)	(6,163,303)	8,708,355	-					
Execution and collection	(40,564,489)	(38,461,177)	(16,256,011)	(95,281,677)					
Foreign transactions and									
other changes			(3,701,555)	(3,701,555)					
Ending balance	₩ 732,589,004	₩ 177,239,480	₩ 6,190,056	₩ 916,018,540					

12.8. Gain (loss) related to lease for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

-		Year ended December 31, 2020		
₩	43,422,185	₩	44,281,572	
	127,650,293		97,974,056	
	4,428,316		6,064,661	
	175,500,794		148,320,289	
	(75,337,227)		(60,035,569)	
	-		(3,080)	
	(2,936,675)		(5,108,009)	
	(1,285,019)		(1,131,446)	
	(14,589,630)		(14,389,063)	
	(94,148,551)		(80,667,167)	
₩	81,352,243	₩	67,653,122	
	Decei	127,650,293 4,428,316 175,500,794 (75,337,227) (2,936,675) (1,285,019) (14,589,630) (94,148,551)	December 31, 2021 December 31, 2021 ₩ 43,422,185 ₩ 127,650,293 4,428,316 175,500,794 (75,337,227) - (2,936,675) (1,285,019) (14,589,630) (94,148,551)	

13. Property and equipment

13.1. Details of property and equipment as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	December 31, 2021								
	Accumulated								
	_Acqı	uisition cost		lepreciation	Book value				
Land	₩	-	₩	-	₩	-			
Buildings		-		-		-			
Vehicles		232,244		(128,155)		104,089			
Furniture and fixtures		47,169,643		(34,151,717)		13,017,926			
Right-of-use assets		44,342,487		(20,145,668)		24,196,819			
Others	-	595,511				595,511			
	₩	92,339,885	₩	(54,425,540)	₩	37,914,345			

Land
Buildings
Vehicles
Furniture and fixtures
Right-of-use assets
Others

December 31, 2020												
Accumulated												
Acc	quisition cost		depreciation		Book value							
₩	1,303,389	₩	_	₩	1,303,389							
	1,727,538		(1,011,906)		715,632							
	206,107		(97,954)		108,153							
	55,187,978		(37,716,969)		17,471,009							
	36,534,975		(13,609,284)		22,925,691							
	595,511		-		595,511							
₩	95,555,498	₩	(52,436,113)	₩	43,119,385							

13.2. Changes in property and equipment for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		Year ended December 31, 2021											
		Beginning			- · ·		Ending						
		balance	Acquisition (*)		Disposal		Depreciation	Transfer		balance			
Land	₩	1,303,389	₩ -	₩	(1,303,389)	₩	-	₩ -	₩	-			
Buildings		715,632	-		(704,835)		(10,797)	-		-			
Vehicles		108,153	26,137		-		(30,201)	-		104,089			
Furniture and fixture		17,471,009	2,588,631		(41,544)		(7,000,170)	-		13,017,926			
Right-of-use assets		22,925,691	10,469,717		(227, 198)		(8,971,391)	-		24,196,819			
Others		595,511	-		-		-			595,511			
	₩	43,119,385	₩ 13,084,485	₩	(2,276,966)	₩	(16,012,559)	₩ -	₩	37,914,345			

(*) ₩308,415 thousand of tangible assets based on the recognition of provision for restoration cost are included in the acquisition of furniture and fixtures.

	Year ended December 31, 2020											
		Beginning									Ending	
		balance	Acquisition (*1)		Disposal		Depreciation	Tr	ansfer (*2)		balance	
Land	₩	1,303,389	₩ -	₩	-	₩	-	₩	-	₩	1,303,389	
Buildings		758,821	-		-		(43,189)		-		715,632	
Vehicles		391,524	116,449		-		(27,426)		(372,394)		108,153	
Furniture and fixture		17,250,573	6,618,393		(62,903)		(6,335,054)		-		17,471,009	
Right-of-use assets		26,531,918	5,436,424		(26,691)		(9,015,960)		-		22,925,691	
Others		595,511			-		-		-		595,511	
	₩	46,831,736	₩ 12,171,266	₩	(89,594)	₩	(15,421,629)	₩	(372,394)	₩	43,119,385	

^{(*1) ₩74,007} thousand of tangible assets based on the recognition of provision for restoration cost are included in the acquisition of furniture and fixtures.

^(*2) Transfer for vehicles is the transferred amount to lease transactions between the consolidated entities.

14. Investment property

14.1. Details of investment property as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

,	December 31, 2021									
			A	ccumulated	Α	ccumulated				
	Ac	quisition cost	a	mortization	imp	pairment loss		Book value		
Land	₩	20,100,918	₩	-	₩	(332,250)	₩	19,768,668		
Buildings		132,245,767		(753,825)		(89,634)		131,402,308		
	₩	152,346,685	₩	(753,825)	₩	(421,884)	₩	151,170,976		
				Decembe	r 31,	2020				
			A	ccumulated	Α	ccumulated				
	Ac	quisition cost	d	epreciation	imp	pairment loss		Book value		
Land	₩	4,135,601	₩	-	₩	-	₩	4,135,601		
Buildings		5,890,436		(3,187,507)		-		2,702,929		
	₩	10,026,037	₩	(3,187,507)	₩	-	₩	6,838,530		

14.2. Changes in the net carrying amount of investment properties for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended December 31, 2021												
	Beginning balance		Acquisition (*1)			Disposal	D	epreciation	Impairment loss (*2)			Ending balance	
Land : Acquisition cost Accumulated	₩	4,135,601	₩	19,410,918	₩	(3,445,601)	₩	-	₩	-	₩	20,100,918	
depreciation Buildings:		-		-		-		-		(332,250)		(332,250)	
Acquisition cost Accumulated		5,890,436		130,970,371		(4,615,040)		-		-		132,245,767	
depreciation Accumulated		(3,187,507)		-		2,517,682		(84,000)		-		(753,825)	
impairment loss										(89,634)		(89,634)	
	₩	6,838,530	₩	150,381,289	₩	(5,542,959)	₩	(84,000)	₩	(421,884)	₩	151,170,976	

(*1) In this period, it reflects the amount due to the new integration of Southlake mall in the connection range. (*2) During the current period, it was judged that the book value of investment real estate exceeded the fair value and the possibility of recovery was low, so the estimated loss was recognized as an impairment loss (non-

operating cost).

		Year ended December 31, 2020										
		Beginning balance	Disposal		Depreciation			Ending Balance				
Land Buildings:	₩	5,495,601	₩	(1,360,000)	₩	-	₩	4,135,601				
Acquisition cost		8,020,058		(2,129,622)		-		5,890,436				
Accumulated depreciation		(4,011,408)		1,011,092		(187,191)		(3,187,507)				
	₩	9,504,251	₩	(2,478,530)	₩	(187,191)	₩_	6,838,530				

- 14.3. The fair value of the land and buildings provided by an independent property appraisal firm is amounted to ₩19,768,668 thousand and ₩131,407,621 thousand as of December 31, 2021, respectively. The transaction case comparison method (comparison method) used by an external appraisal agency is a method of calculating fair value by inputting variables such as transaction price, information politics, and time correction of nearby similar real estate. The fair value calculated in this way is classified into Level 3 according to the fair value hierarchy classification criteria described in Note 44.
- 14.4. The gains and losses related to the Group's investment property for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended December 31, 2021	Year ended December 31, 2020
Rental income	₩ 178,4	59 ₩ 340,592
Gain on disposal	4,694,9	52 1,562,867
	4,873,4	11 1,903,459
Depreciation	(84,0	(187,191)
Loss on disposal	(444,2	- 16)
Impairment loss	(421,8	-
	(950,1	(187,191)
Total	₩ 3,923,3	<u>₩</u> 1,716,268

14.5. There is no right to collateral security established for lease deposits for investment property as of December 31, 2021.

15. Intangible assets

15.1. Intangible assets as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	December 31, 2021									
				Accumulated		ccumulated		_		
	Acc	quisition cost		amortization	im	pairment loss		Book value		
Software	₩	63,319,722	₩	(52,949,404)	₩	-	₩	10,370,318		
Membership		14,418,824		-		(1,995,933)		12,422,891		
Others		21,718,011		(4,435,534)		_		17,282,477		
	₩	99,456,557	₩	(57,384,938)	₩	(1,995,933)	₩	40,075,686		
				Decembe	r 31	2020				
			_	Accumulated		ccumulated				
	Acc	quisition cost		amortization	im	pairment loss		Book value		
Software	₩	59,098,567	₩	(49,067,993)	₩	-	₩	10,030,574		
Membership		14,468,824		-		(1,995,933)		12,472,891		
Others		21,127,011		(3,972,933)	-	-		17,154,078		
	₩	94,694,402	₩	(53,040,926)	₩	(1,995,933)	₩	39,657,543		

15.2. Changes in carrying amounts of intangible assets for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	<u></u>	Year ended December 31, 2021								
		Beginning								Ending
		balance		Addition	D	ecrease		epreciation		balance
Software	₩	10,030,574	₩	4,360,156	₩	(1)	₩	(4,020,411)	₩	10,370,318
Membership		12,472,891		-		(50,000)		-		12,422,891
Others		17,154,078		591,000		<u> </u>		(462,601)		17,282,477
	₩	39,657,543	₩	4,951,156	₩	(50,001)	₩	(4,483,012)	₩	40,075,686

			Year ended December 31, 2020							
	Beginning balance	Addition	Decrease	Depreciation	Reversal of impairment losses (*)	Ending balance				
Software	₩ 8,980,969	₩ 4,422,675	₩ -	₩ (3,373,070)	₩ -	₩ 10,030,574				
Membership	10,709,176	52,095	(354,380)	-	2,066,000	12,472,891				
Others	16,805,751	865,210		(516,883)		17,154,078				
	₩ 36,495,896	₩ 5,339,980	₩ (354,380)	₩ (3,889,953)	₩ 2,066,000	₩ 39,657,543				

^(*) Some impairment losses attributable to during the previous period were reversed by an increase in the recoverable value (market price).

16. Other assets

16.1. Other assets as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	December 31, 2021	December 31, 2020
Other financial assets:		
Receivable from proprietary trading	₩ 524,588,631	₩ 281,409,481
Receivable from trading on consignment	345,103,799	378,260,226
Other receivable	76,209,155	54,576,624
Accrued income	261,280,499	167,460,603
Guarantee deposits	19,811,910	21,611,313
Unsettled spot exchange	793,188,560	791,249,005
Unsettled difference	40	40
Allowance for losses	(13,948,158)	(9,760,311)
Present value discount	(752,577)	(800,022)
	2,005,481,859	1,684,006,959
Other non-financial assets:		
Advanced payment	143,853,612	102,156,517
Prepaid expenses	84,764,722	32,525,563
Others	18,122,552	497,716
	246,740,886	135,179,796
	₩ 2,252,222,745	₩ 1,819,186,755

16.2. Changes in allowance for other assets for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended December 31, 2021								
	12 month expected credit losses		Lifetime expected credit losses		Impaired loans Lifetime expected credit losses			Total	
Beginning balance	₩	1,751,956	₩	235,650	₩	7,772,705	₩	9,760,311	
Transfer to 12 month expected credit losses		16,838		(16,838)		-		-	
Transfer to lifetime expected credit losses Transfer to lifetime Impaired loans		(13,351)		13,477		(126)		-	
Lifetime expected credit losses		(1,885)		(24,317)		26,202		-	
Bad debts written off		-		-		(686,885)		(686,885)	
Recovery of amortized bond Provision for (reversal of)		-		-		-		-	
allowance `		1,337,387		149,681		3,387,664		4,874,732	
Ending balance	₩	3,090,945	₩	357,653	₩	10,499,560	₩	13,948,158	

		Year ended December 31, 2020									
	12 month expecte credit losses		Lifetime expected credit losses		Impaired loans Lifetime expected credit losses			Total			
Beginning balance	₩	1,329,940	₩	304,559	₩	4,627,769	₩	6,262,268			
Transfer to 12 month expected credit losses		38,037		(38,037)		-		-			
Transfer to lifetime expected credit losses Transfer to lifetime Impaired loans		(13,359)		13,393		(34)		-			
Lifetime expected credit losses		(4,726)		(148,483)		153,209		-			
Bad debts written off		-		-		(940,179)		(940,179)			
Recovery of amortized bond		-		-		-		-			
Provision for allowance		402,064		104,218		3,931,940		4,438,222			
Ending balance	₩	1,751,956	₩	235,650	₩	7,772,705	₩	9,760,311			

17. Deposits

Deposits as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	De	cember 31, 2021	D	ecember 31, 2020
Customers' claims on deposits	₩	1,577,435,867	₩	1,376,356,198
Guarantee deposit		720,975,541		499,792,190
Others		266,196,198		78,726,578
	₩	₩ 2,564,607,606		1,954,874,966

18. Financial liabilities measured at FVTPL

Financial liabilities measured at FVTPL as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Book value (fair value)					
	De	cember 31, 2021	Dec	ember 31, 2020		
Financial liabilities measured at FVTPL:		_				
Stock	₩	1,611,246,603	₩	1,149,663,213		
Bonds:						
Government bonds		2,352,266,891		2,760,486,750		
Special purpose bonds		69,950,097		138,501,765		
Foreign currency securities		175,109,382		200,951,552		
Others		51,238,000		72,662,000		
		4,259,810,973		4,322,265,280		
Derivatives liabilities held-for-trading:						
Interest		6,221,255		6,821,821		
Currency		65,620,666		180,698,405		
Stock		200,207,041		79,065,374		
Stock index		17,544,005		1,750,453		
Others		370,096,533		126,604,427		
Credit risk adjustments		(1,265,683)		(843,237)		
Deferred Day1 profit or loss adjustments		(211,822,267)	(110,788,954)			
		446,601,550		283,308,289		
Financial liabilities designated at FVTPL:		_				
Equity linked securities sold (*)		5,445,107,438		2,573,578,639		
Derivative linked securities sold (*)		340,733,173		175,037,499		
Others		263,561,806		339,361,286		
Credit risk value adjustments		(10,061,546)		(15,227,117)		
Deferred day 1 profit or loss adjustments		273,160,239		171,436,767		
		6,312,501,110		3,244,187,074		
	₩	11,018,913,633	₩	7,849,760,643		

^(*) The Group designates equity linked securities sold and derivative linked securities sold as financial liability at fair value through profit or loss without separating embedded derivative from the host contract.

19. Borrowings

19.1. Borrowings as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Lender	Interest rate (%)	December 31, 2021	December 31, 2020
Borrowings: Call money			₩ -	₩ 210,000,000
Commercial paper	KTB Investment & Securities and others	0.93~2.22	2,990,000,000	2,115,000,000
Commercial Paper (ABCP)	Shinhan Financial Investments and others	1.26~2.90	2,725,600,000	1,297,880,000
Repurchase agreements sold	Woori Bank and others	0.35~3.00	13,419,882,203	12,493,127,166
Repurchase agreements sold (Foreign currency)	KB Bank and others	-0.32~0.90	1,852,088,164	1,160,093,692
Borrowing from KSFC	KSFC	1.37~1.85	444,419,552	486,523,463
Others	NH bank and others	2.66~6.00	1,362,325,636	408,247,145
			22,794,315,555	18,170,871,466
Debentures :	KTD lavas tus sut 0		0.040.500.000	4 400 070 000
Asset backed short-term bonds	KTB Investment & Securities and others	1.15~2.90	2,346,560,000	1,138,973,000
Debentures	KB Securities and others	1.174~4.200	7,025,961,557	7,164,900,308
			9,372,521,557	8,303,873,308
			₩ 32,166,837,112	₩ 26,474,744,774

19.2. Debentures as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Interest rate			December 31,	December 31,
	(%)	Date of issue	Maturity	2021	2020
Debentures guaranteed by holding company(29-3)	2.44	2016-01-14	2021-01-14	₩ -	₩ 20,000,000
Debentures guaranteed by holding company(48-2)	2.10	2016-05-25	2021-05-25	-	20,000,000
Non guaranteed debentures(64-3)	2.91	2016-08-26	2021-08-26	-	20,000,000
Asset-backed debentures(6)	2.76	2017-11-28	2021-02-28	-	10,000,000
Debentures guaranteed by holding company(107-2)	2.78	2018-02-08	2021-02-08	-	60,000,000
Debentures guaranteed by holding company(109-2)	2.84	2018-02-23	2021-02-23	-	40,000,000
Debentures guaranteed by holding company(115-2)	2.75	2018-04-11	2021-04-09	-	10,000,000
Debentures guaranteed by holding company(116-2)	2.76	2018-04-23	2021-04-23	-	10,000,000
Debentures guaranteed by holding company(119-1)	2.84	2018-05-14	2021-05-14	-	10,000,000
Debentures guaranteed by holding company(119-2)	3.23	2018-05-14	2023-05-12	70,000,000	70,000,000
Non guaranteed debentures(123-2)	2.97	2018-07-27	2021-01-27	-	60,000,000
Non guaranteed debentures (123-3)	2.97	2018-07-27	2021-01-26	-	20,000,000
Debentures guaranteed by holding company(124)	2.66	2018-07-27	2021-07-27	-	50,000,000
Non guaranteed debentures(125-2)	2.88	2018-08-08	2021-01-08	-	90,000,000
Non guaranteed debentures(125-3)	2.93	2018-08-08	2021-02-08	-	50,000,000
Debentures guaranteed by holding company(126)	2.58	2018-08-13	2021-08-13	-	30,000,000
Non guaranteed debentures(127-3)	2.71	2018-09-11	2021-03-10	-	20,000,000
Non guaranteed debentures(127-4)	2.71	2018-09-11	2021-03-11	-	80,000,000
Non guaranteed debentures(127-5)	2.76	2018-09-11	2021-04-09	-	60,000,000
Non guaranteed debentures (127-6)	2.80	2018-09-11	2021-05-11	-	50,000,000
Non guaranteed debentures(128-1)	2.75	2018-10-30	2021-03-30	-	30,000,000
Non guaranteed debentures(128-2)	2.87	2018-10-30	2021-06-30	-	40,000,000
Non guaranteed debentures(129-1)	2.77	2018-11-08	2021-04-08	-	40,000,000
Non guaranteed debentures(129-2)	2.81	2018-11-08	2021-05-07	-	50,000,000
Non guaranteed debentures(129-3)	2.85	2018-11-08	2021-06-08	-	60,000,000
Non guaranteed debentures(129-4)	2.89	2018-11-08	2021-07-08	-	40,000,000
Non guaranteed debentures(130-1)	2.65	2018-12-07	2021-08-06	-	100,000,000

	Interest rate (%)	Date of issue	Maturity	December 31, 2021	December 31, 2020
Non guaranteed debentures(130-2)	2.65	2018-12-07	2021-08-05	₩ -	₩ 20,000,000
Debentures guaranteed by holding company(131)	2.45	2018-12-07	2021-12-07	-	20,000,000
Non guaranteed debentures(132)	2.38	2019-03-12	2022-03-11	80,000,000	80,000,000
Non guaranteed debentures(133)	2.15	2019-04-04	2022-04-04	140,000,000	140,000,000
Non guaranteed debentures(134)	2.15	2019-04-18	2022-04-18	140,000,000	140,000,000
Non guaranteed debentures(135)	2.02	2019-05-24	2022-05-24	120,000,000	120,000,000
Non guaranteed debentures (136-1)	1.91	2019-06-11	2022-06-10	60,000,000	60,000,000
Non guaranteed debentures(136-2) Non guaranteed debentures(137)	2.17 1.88	2019-06-11 2019-07-17	2024-06-11 2023-01-17	30,000,000 90,000,000	30,000,000 90,000,000
Non guaranteed debentures(137)	1.49	2019-08-09	2022-02-09	60,000,000	60,000,000
Non guaranteed debentures(138-2)	1.57	2019-08-09	2023-02-09	60,000,000	60,000,000
Non guaranteed debentures(139-1)	1.54	2019-08-23	2021-09-23		20,000,000
Non guaranteed debentures(139-2)	1.66	2019-08-23	2023-02-23	20,000,000	20,000,000
Non guaranteed debentures (140)	1.66	2019-09-05	2021-09-03	-	40,000,000
Non guaranteed debentures(141-1)	1.76	2019-09-19	2021-03-19	-	50,000,000
Non guaranteed debentures(141-2)	1.76	2019-09-19	2021-04-19	.	40,000,000
Non guaranteed debentures(141-3)	2.17	2019-09-19	2024-09-19	60,000,000	60,000,000
Non guaranteed debentures(142-1)	1.66	2019-10-11	2021-05-11	-	50,000,000
Non guaranteed debentures (142-2)	1.67	2019-10-11	2021-06-11	40,000,000	70,000,000
Non guaranteed debentures(142-3) Non guaranteed debentures(143-1)	1.71 1.81	2019-10-11 2019-10-30	2022-10-11 2021-02-26	40,000,000	40,000,000 40,000,000
Non guaranteed debentures(143-1)	2.17	2019-10-30	2023-10-30	40,000,000	40,000,000
Non guaranteed debentures(144-1)	1.84	2019-11-13	2021-06-11	+0,000,000	10,000,000
Non guaranteed debentures(144-2)	1.89	2019-11-13	2021-11-12	_	20,000,000
Non guaranteed debentures (145-1)	1.81	2019-11-29	2021-01-29	-	10,000,000
Non guaranteed debentures(145-2)	1.81	2019-11-29	2021-02-26	-	50,000,000
Non guaranteed debentures (145-3)	1.82	2019-11-29	2021-03-29	-	20,000,000
Non guaranteed debentures(146-2)	1.82	2019-12-16	2021-03-16	-	20,000,000
Non guaranteed debentures(146-3)	2.04	2019-12-16	2023-12-15	70,000,000	70,000,000
Non guaranteed debentures(147-2)	1.81	2019-12-24	2021-01-08	-	30,000,000
Non guaranteed debentures (147-3)	1.81	2019-12-24	2021-01-22	-	10,000,000
Non guaranteed debentures (147-4)	1.81	2019-12-24	2021-03-24	-	10,000,000
Non guaranteed debentures(148-1) Non guaranteed debentures(148-2)	1.76 1.80	2020-01-10 2020-01-10	2021-07-09 2022-01-10	10,000,000	40,000,000 10,000,000
Non guaranteed debentures(149-1)	1.81	2020-01-10	2021-07-21	10,000,000	20,000,000
Non guaranteed debentures(149-2)	1.85	2020-01-21	2022-01-20	20,000,000	20,000,000
Non guaranteed debentures(149-3)	1.92	2020-01-21	2023-01-20	10,000,000	10,000,000
Non guaranteed debentures(150-1)	1.81	2020-01-30	2021-07-30	-	20,000,000
Non guaranteed debentures (150-2)	1.85	2020-01-30	2022-01-28	50,000,000	50,000,000
Non guaranteed debentures(150-3)	1.92	2020-01-30	2023-01-30	30,000,000	30,000,000
Non guaranteed debentures(151-1)	1.70	2020-02-19	2021-08-19		60,000,000
Non guaranteed debentures(151-2)	1.72	2020-02-19	2022-02-21	50,000,000	50,000,000
Non guaranteed debentures (151-3)	1.81	2020-02-19	2023-02-20	70,000,000	70,000,000
Non guaranteed debentures(151-4) Non guaranteed debentures(152-1)	2.20 1.66	2020-02-19 2020-02-21	2025-02-19 2021-08-20	20,000,000	20,000,000 10,000,000
Non guaranteed debentures(152-1)	1.70	2020-02-21	2022-02-21	60,000,000	60,000,000
Non guaranteed debentures(152-3)	1.70	2020-02-21	2022-02-18	10,000,000	10,000,000
Asset-backed debentures(7)	1.31	2020-03-19	2021-01-18	-	10,000,000
Asset-backed debentures(7)	1.31	2020-03-19	2021-02-18	-	10,000,000
Asset-backed debentures(7)	1.31	2020-03-19	2021-03-18	-	20,000,000
Asset-backed debentures(7)	1.33	2020-03-19	2021-04-18	-	10,000,000
Asset-backed debentures(7)	1.34	2020-03-19	2021-05-18	-	10,000,000
Asset-backed debentures(7)	1.35	2020-03-19	2021-06-18	-	10,000,000
Asset-backed debentures(7)	1.36	2020-03-19	2021-07-18	-	10,000,000
Asset-backed debentures(7)	1.37	2020-03-19	2021-08-18	-	10,000,000
Asset-backed debentures(7)	1.38	2020-03-19 2020-03-19	2021-09-18	-	10,000,000
Asset-backed debentures(7) Asset-backed debentures(7)	1.40 1.41	2020-03-19	2021-10-18 2021-11-18	-	10,000,000 10,000,000
Asset-backed debentures(7) Asset-backed debentures(7)	1.41	2020-03-19	2021-11-18	-	10,000,000
Asset-backed debentures(7)	1.44	2020-03-19	2022-01-18	_	10,000,000
Asset-backed debentures(7) Asset-backed debentures(7)	1.45	2020-03-19	2022-01-10	10,000,000	10,000,000
Asset-backed debentures(7)	1.46	2020-03-19	2022-03-18	10,000,000	10,000,000
Asset-backed debentures(7)	1.48	2020-03-19	2022-04-18	10,000,000	10,000,000
Asset-backed debentures (7)	1.51	2020-03-19	2022-06-18	10,000,000	10,000,000
Asset-backed debentures(7)	1.54	2020-03-19	2022-09-18	10,000,000	10,000,000
Debentures guaranteed by holding	1.79	2020-04-14	2021-04-14	-	20,000,000
company(153-1)					

	Interest rate (%)	Date of issue	Maturity	De	cember 31, 2021	De	ecember 31, 2020
Debentures guaranteed by holding company(153-2)	1.81	2020-04-14	2023-04-14	₩		₩	20,000,000
Debentures guaranteed by holding company(154-1)	1.80	2020-04-22	2021-04-22		-		160,000,000
Debentures guaranteed by holding company(154-2)	1.81	2020-04-22	2021-10-22		-		20,000,000
Debentures guaranteed by holding company(155)	1.62	2020-05-25	2021-07-23		-		20,000,000
Debentures guaranteed by holding company(156-1)	1.56	2020-06-05	2021-12-03		-		70,000,000
Debentures guaranteed by holding company(156-2)	1.61	2020-06-05	2022-06-03		10,000,000		10,000,000
Debentures guaranteed by holding company(156-3)	1.75	2020-06-05	2023-06-05		30,000,000		30,000,000
Non guaranteed debentures(157)	1.91	2020-06-25	2021-06-25		-		20,000,000
Non guaranteed debentures(158)	1.85	2020-07-09	2021-08-09		<u>-</u>		30,000,000
Non guaranteed Privately-placed corporate bonds(159)	1.91	2020-07-23	2023-07-23		50,000,000		50,000,000
Non guaranteed debentures(160)	1.83	2020-07-23	2021-07-23		-		30,000,000
Non guaranteed debentures (161-1)	1.82	2020-07-29	2021-07-29		40,000,000		40,000,000
Non guaranteed debentures(161-2)	1.87	2020-07-29	2022-07-22		10,000,000		10,000,000
Non guaranteed Privately-placed corporate bonds(162)	1.88	2020-08-20	2023-08-20		20,000,000		20,000,000
Non guaranteed debentures(164)	1.84	2020-08-28	2021-11-26		-		10,000,000
Non guaranteed debentures (165)	1.91	2020-09-09	2021-09-09		-		100,000,000
Non guaranteed debentures (166)	1.86	2020-09-21	2021-09-21		-		50,000,000
Non guaranteed debentures (167-1)	1.87 1.87	2020-09-28 2020-09-28	2021-09-28 2021-12-28		-		30,000,000 50,000,000
Non guaranteed debentures(167-2) Non guaranteed debentures(168-1)	1.86	2020-09-28	2022-01-14		40.000.000		40,000,000
Non guaranteed debentures(168-2)	1.87				10,000,000		10,000,000
` ,	2.10	2020-10-16 2020-10-16	2022-02-16 2022-03-16		20,000,000		20,000,000
Non guaranteed debentures (168-3)	1.92						
Non guaranteed debentures(168-4) Non guaranteed debentures(169-1)	1.85	2020-10-16 2020-10-20	2022-10-14 2021-12-20		20,000,000		20,000,000 40,000,000
Non guaranteed debentures(169-1)	1.85	2020-10-20	2022-01-20		10,000,000		10,000,000
Non guaranteed debentures(169-3)	1.86	2020-10-20	2022-01-20		10,000,000		10,000,000
Non guaranteed debentures(169-4)	1.87	2020-10-20	2022-03-18		20,000,000		20,000,000
Non guaranteed debentures(170)	1.92	2020-10-23	2022-07-22		30,000,000		30,000,000
Non guaranteed debentures(171-1)	1.88	2020-10-29	2022-03-29		20,000,000		20,000,000
Non guaranteed debentures(171-2)	1.93	2020-10-29	2022-10-28		10,000,000		10,000,000
Non guaranteed debentures(172-1)	1.89	2020-11-09	2022-05-09		50,000,000		50,000,000
Non guaranteed debentures (172-2)	1.91	2020-11-09	2022-08-09		20,000,000		20,000,000
Non guaranteed debentures (172-3)	1.94	2020-11-09	2022-10-28		10,000,000		10,000,000
Non guaranteed debentures (172-4)	1.94	2020-11-09	2022-11-09		20,000,000		20,000,000
Non guaranteed debentures (173)	1.86	2020-11-12	2022-02-11		40,000,000		40,000,000
Non guaranteed debentures(174-1)	1.93	2020-11-25	2022-11-25		150,000,000		150,000,000
Non guaranteed debentures(174-2)	1.93	2020-11-25	2022-12-23		10,000,000		10,000,000
Non guaranteed debentures(174-3)	1.94	2020-11-25	2023-05-25		80,000,000		80,000,000
Non guaranteed debentures(175-1)	1.86	2020-12-08	2022-06-08		50,000,000		50,000,000
Non guaranteed debentures(175-2)	1.90	2020-12-08	2022-12-08		90,000,000		90,000,000
Non guaranteed debentures(175-3)	1.90	2020-12-08	2022-12-07		20,000,000		20,000,000
Non guaranteed debentures(175-4)	1.93	2020-12-08	2023-06-08		30,000,000		30,000,000
Non guaranteed debentures(175-5)	1.93	2020-12-08	2023-06-07		10,000,000		10,000,000
Non guaranteed debentures(176-1)	1.89	2021-01-14	2024-01-12		120,000,000		-
Non guaranteed debentures(176-2)	1.89	2021-01-14	2024-01-15		30,000,000		-
Non guaranteed debentures(176-3)	1.90	2021-01-14	2024-04-12		40,000,000		-
Non guaranteed debentures (176-4)	1.90	2021-01-14	2024-04-15		10,000,000		-
Non guaranteed debentures (177-1)	1.92	2021-03-25	2024-03-25		180,000,000		-
Non guaranteed debentures(177-2)	1.92 1.44	2021-03-25 2021-03-30	2024-03-22 2022-06-30		20,000,000 30,000,000		-
Non guaranteed debentures (178-1)	1.44				90,000,000		-
Non guaranteed debentures(178-2) Non guaranteed debentures(178-3)	1.91	2021-03-30 2021-03-30	2024-05-30		40,000,000		-
• , ,			2024-05-29				-
Non guaranteed debentures(178-4) Non guaranteed debentures(179-1)	2.01 1.72	2021-03-30 2021-04-23	2025-03-28 2024-04-23		10,000,000 70,000,000		-
Non guaranteed debentures(179-1)	1.80	2021-04-23	2024-04-23		50,000,000		-
Non guaranteed debentures(179-2)	1.69	2021-04-23	2024-07-25		10,000,000		-
Non guaranteed debentures(180-1)	1.69	2021-04-27	2024-04-26		60,000,000		-
Non guaranteed debentures(180-2)	1.77	2021-04-27	2024-04-26		50,000,000		-
Non guaranteed debentures(182-1)	1.62	2021-04-27	2024-07-20		40,000,000		-
Non guaranteed debentures(182-2)	1.68	2021-05-14	2024-05-14		30,000,000		_
11011 guarantood debeniuros(102-2)	1.00	202 I-00-14	2027-00-14		55,000,000		-

(conta):					
	Interest rate (%)	Date of issue	Maturity	December 31, 2021	December 31, 2020
Non guaranteed debentures(182-3)	1.71	2021-05-14	2024-06-14	₩ 10,000,000	
Non guaranteed debentures(183-1)	1.45	2021-05-26	2023-05-26	100,000,000	-
Non guaranteed debentures(183-2)	1.50	2021-05-26	2023-08-25	60,000,000	_
Non guaranteed debentures (183-3)	1.55	2021-05-26	2023-11-24	40,000,000	_
Non guaranteed debentures(183-4)	2.35	2021-05-26	2026-05-26	10,000,000	_
Non guaranteed debentures(184)	1.73	2021-06-23	2023-07-21	50,000,000	-
Non guaranteed debentures(185-1)	1.73	2021-06-28	2023-06-28	30,000,000	-
Non guaranteed debentures(185-2)	1.79	2021-06-28	2023-09-28	10,000,000	-
Non guaranteed debentures (186-1)	1.69	2021-07-09	2023-04-07	60,000,000	_
Non guaranteed debentures (186-2)	1.79	2021-07-09	2023-07-06	40,000,000	-
Non guaranteed debentures (186-3)	1.79	2021-07-09	2023-07-07	120,000,000	-
Non guaranteed debentures (187-1)	1.50	2021-08-12	2023-03-10	50,000,000	-
Non guaranteed debentures(187-2)	1.77	2021-08-12	2023-08-11	10,000,000	-
Non guaranteed debentures(188)	1.87	2021-08-24	2024-02-23	10,000,000	-
Non guaranteed debentures(189-1)	1.59	2021-09-06	2022-10-06	10,000,000	-
Non guaranteed debentures(189-2)	1.68	2021-09-06	2023-01-06	10,000,000	-
Non guaranteed debentures(190-1)	2.34	2021-09-08	2026-03-06	10,000,000	-
Non guaranteed debentures(190-2)	2.64	2021-09-08	2027-09-08	10,000,000	-
Non guaranteed debentures(191-1)	1.74	2021-09-16	2022-09-16	20,000,000	-
Non guaranteed debentures(191-2)	1.95	2021-09-16	2023-03-16	20,000,000	-
Non guaranteed debentures(191-3)	2.73	2021-09-16	2027-09-13	30,000,000	-
Non guaranteed debentures (192-1)	2.02	2021-10-18	2023-01-18	40,000,000	-
Non guaranteed debentures (192-2)	2.15 2.32	2021-10-18 2021-10-18	2023-04-18	30,000,000	-
Non guaranteed debentures (192-3)	2.32 2.45	2021-10-16	2023-10-18 2023-04-11	20,000,000 40,000,000	-
Non guaranteed debentures(193-1) Non guaranteed debentures(193-2)	2.50	2021-11-11	2023-04-11	10,000,000	-
Non guaranteed debentures (193-2)	2.44	2021-11-11	2023-05-11	20,000,000	_
Asset-backed debentures(8)	2.20	2021-11-12	2023-03-12	10,000,000	-
Asset-backed debentures(8)	2.25	2021-11-19	2023-04-19	10,000,000	_
Asset-backed debentures(8)	2.33	2021-11-19	2023-05-19	20,000,000	_
Asset-backed debentures(8)	2.36	2021-11-19	2023-06-19	20,000,000	_
Asset-backed debentures(8)	2.40	2021-11-19	2023-07-19	20,000,000	_
Asset-backed debentures(8)	2.45	2021-11-19	2023-08-19	20,000,000	-
Asset-backed debentures(8)	2.49	2021-11-19	2023-09-19	20,000,000	-
Asset-backed debentures(8)	2.52	2021-11-19	2023-10-19	20,000,000	-
Asset-backed debentures(8)	2.57	2021-11-19	2023-11-19	20,000,000	-
Asset-backed debentures(8)	2.58	2021-11-19	2023-12-19	20,000,000	-
Asset-backed debentures(8)	2.60	2021-11-19	2024-01-19	20,000,000	-
Asset-backed debentures(8)	2.61	2021-11-19	2024-02-19	20,000,000	-
Asset-backed debentures(8)	2.62	2021-11-19	2024-03-19	20,000,000	-
Asset-backed debentures(8)	2.63	2021-11-19	2024-04-19	20,000,000	-
Asset-backed debentures(8)	2.65	2021-11-19	2024-05-19	20,000,000	-
Asset-backed debentures(8)	2.66	2021-11-19	2024-06-19	20,000,000	-
Asset-backed debentures(8)	2.67	2021-11-19	2024-07-19	20,000,000	-
Asset-backed debentures(8) Asset-backed debentures(8)	2.69 2.70	2021-11-19	2024-08-19	20,000,000	-
Asset-backed debentures(8)	2.71	2021-11-19 2021-11-19	2024-09-19 2024-10-19	20,000,000 20,000,000	-
Non guaranteed debentures(195-1)	2.75	2021-11-19	2023-06-05	130,000,000	-
Non guaranteed debentures (195-1)	2.84	2021-12-06	2023-12-06	120,000,000	_
Non guaranteed debentures(196)	2.75	2021-12-07	2023-06-07	60,000,000	-
Non guaranteed debentures(197-1)	2.81	2021-12-20	2023-09-20	60,000,000	_
Non guaranteed debentures(197-2)	2.83	2021-12-20	2023-11-20	110,000,000	_
Non guaranteed debentures(197-3)	2.85	2021-12-20	2024-02-20	30,000,000	-
Non guaranteed debentures(1808-01)	2.55	2018-08-03	2021-08-03		210,000,000
Non guaranteed debentures (1808-10)	2.62	2018-10-15	2021-10-15	_	310,000,000
Unwarranted subordinated debentures	4.00	2019-03-15	2026-03-15	210,000,000	210,000,000
(1903-01) Unwarranted subordinated debentures	3.95	2019-05-30	2026-05-30	110,000,000	110,000,000
(1905-01)					
Unwarranted subordinated debentures (1905-02)	4.20	2019-05-30	2029-05-30	190,000,000	190,000,000
Unwarranted subordinated debentures (2001-01)	3.90	2020-01-30	2027-01-30	84,000,000	84,000,000
Unwarranted subordinated debentures (2001-02)	4.10	2020-01-30	2030-01-30	30,000,000	30,000,000
Non guaranteed debentures(2004-01)	2.85	2020-04-27	2021-04-27	-	180,000,000
Non guaranteed debentures(2005-01)	3.05	2020-05-22	2022-05-20	300,000,000	300,000,000
Non guaranteed debentures (2006-01)	1.70	2020-06-26	2022-01-26	40,000,000	40,000,000
Non guaranteed debentures (2009-01)	1.66	2020-09-16	2022-03-16	160,000,000	160,000,000

	Interest rate			December 31,		ember 31, Decembe	
	(%)	Date of issue	Maturity	2021			2020
Non guaranteed debentures(2010-01)	1.58	2020-10-21	2022-04-21	₩	100,000,000	₩	100,000,000
Non guaranteed debentures(2010-02)	1.83	2020-10-21	2022-10-21		80,000,000		80,000,000
Non guaranteed debentures (2010-03)	2.01	2020-10-21	2023-10-20		20,000,000		20,000,000
Non guaranteed debentures(2011-01)	1.65	2020-11-19	2022-11-18		100,000,000		100,000,000
Non guaranteed debentures (2011-02)	1.89	2020-11-19	2023-11-17		100,000,000		100,000,000
Non guaranteed debentures(2103-01)	1.17	2021-03-05	2022-09-05		100,000,000		-
Non guaranteed debentures(2106-01)	1.35	2021-06-10	2022-12-09		200,000,000		-
Non guaranteed debentures(2109-01)	1.92	2021-09-10	2023-09-08		200,000,000		-
Discount on debenture issued					(8,038,443)		(9,099,692)
				₩	7,025,961,557	₩	7,164,900,308

20. Provisions

20.1. Provisions as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Dece	mber 31, 2021	December 31, 2020		
Provision for financial guarantee contract	₩	105,284	₩	1,610,055	
Allowances for unused commitments		12,165,657		9,778,693	
Reserve for restoration costs		4,738,748		4,389,314	
Provision for possible losses from lawsuits		3,964,423		258,586	
	₩	20,974,112	₩	16,036,648	

20.2. Changes in provision for financial guarantee contract for the year ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended December 31, 2021									
		12 month		Impaired loans						
	exp	ected credit		e expected	lifetime expec					
		losses	cred	it losses	credit losse	<u> </u>		Total		
Beginning balance	₩	1,610,055	₩	-	₩	-	₩	1,610,055		
Transfer to 12 month										
expected credit losses		-		-		-		-		
Transfer to lifetime expected										
credit losses		-		-		-		-		
Transfer to Impaired loans										
lifetime expected credit losses		-		-		-		-		
Provisions for debt guarantee										
transferred in (reversal)		(1,512,131)		7,360		-		(1,504,771)		
Ending balance	₩	97,924	₩	7,360	₩		₩	105,284		

			Year ended De	cember 31, 2020		
	1	12 month		Impaired loans		
	exp	ected credit	Lifetime expected	lifetime expected		
		losses	credit losses	credit losses		Total
Beginning balance	₩	3,285,754	₩ -	₩ -	₩	3,285,754
Transfer to 12 month						
expected credit losses		-	-	-		-
Transfer to lifetime expected						
credit losses		-	-	-		-
Transfer to Impaired loans						
lifetime expected credit losses		-	-	-		-
Provisions for debt guarantee						
transferred in (reversal)		(1,675,699)		-		(1,675,699)
Ending balance	₩	1,610,055	₩ -	₩ -	₩	1,610,055

20.3. Changes in allowances for unused commitments for the year ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended December 31, 202							
		12 month bected credit losses	Lifetime exp		Impaired loans lifetime expected credit losses			Total
Beginning balance Transfer to 12 month expected credit losses	₩	8,878,751	₩ 89	99,942	₩	-	₩	9,778,693
Transfer to lifetime expected credit losses Transfer to Impaired loans		(39,410)	;	39,410		-		-
lifetime expected credit losses Provisions for debt guarantee		-		-		-		-
transferred in (reversal)		3,158,637	(77	1,673)		_		2,386,964
Ending balance	₩	11,997,978	₩ 10	67,679	₩	_	₩	12,165,657
		12 month pected credit losses	Year end Lifetime exp credit loss	ected	ember 31, 2020 Impaired loans lifetime expected credit losses	d		Total
Beginning balance Transfer to 12 month	₩	19,379,034	₩ 22	25,112	₩	-	₩	19,604,146
expected credit losses Transfer to lifetime expected		-		<u>-</u>		-		-
credit losses Transfer to Impaired loans		(229,651)	22	9,651		-		-
lifetime expected credit losses Provisions for debt guarantee		- (10.270.622)	4.4	- 5 170		-		(0.925.452)
transferred in (reversal)		(10,270,632)		5,179		_		(9,825,453)
Ending balance	₩	8,878,751	₩ 89	9,942	₩	_	₩	9,778,693

20.4. Changes in provision for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended December 31, 2021										
	Beginning			Ending							
	balance	Ad	ddition (*)		(Reversal)		Use		balance		
₩	4,389,314	₩	308,415	₩	41,019	₩	-	₩	4,738,748		
	258,586		_		3,705,837		-		3,964,423		
₩	4,647,900	₩	308,415	₩	3,746,856	₩	-	₩	8,703,171		
	₩	₩ 4,389,314 258,586	balance Address ₩ 4,389,314 ₩ 258,586	Beginning balance Addition (*) ₩ 4,389,314 ₩ 308,415 258,586 -	Beginning balance Addition (*) ₩ 4,389,314 ₩ 308,415 258,586 -	Beginning balance Addition (*) Provision (Reversal) ₩ 4,389,314 ₩ 308,415 ₩ 41,019 258,586 - 3,705,837	Beginning balance Addition (*) Provision (Reversal) ₩ 4,389,314 ₩ 308,415 ₩ 41,019 ₩ 258,586 - 3,705,837 - -	Beginning balance Addition (*) Provision (Reversal) Use ₩ 4,389,314 ₩ 308,415 ₩ 41,019 ₩ - 258,586 - 3,705,837 - -	Beginning balance Addition (*) Provision (Reversal) Use W 4,389,314 W 308,415 W 41,019 W - W 258,586 - 3,705,837 - - - -		

(*) This is the amount for tangible assets based on the recognition of provision for restoration cost in 2021.

		Year ended December 31, 2020										
		Beginning balance	Þ	Provision Addition (*) (Reversal)				Use			Ending balance	
Reserve for restoration costs Provision for possible	₩	4,240,348	₩	74,007	₩	74,959	₩		-	₩	4,389,314	
losses from lawsuits		259,971		_		(1,385)			_		258,586	
	₩	4,500,319	₩	74,007	₩	73,574	₩		_	₩	4,647,900	

^(*) This is the amount for tangible assets based on the recognition of provision for restoration cost in 2020.

21. Net defined benefit liabilities (assets)

21.1. Defined benefit liabilities as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Dece	mber 31, 2021	Dec	ember 31, 2020
Present value of defined benefit liabilities	₩	25,840,344	₩	23,920,619
Fair value of plan assets		(25,927,773)		(23,588,372)
Net defined benefit liabilities(assets)	₩	(87,429)	₩	332,247

21.2. Changes in defined benefit liabilities for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year en December 3			r ended er 31, 2020
Beginning balance	₩ 2	23,920,619	₩	20,003,053
Current service cost		5,046,374		4,670,186
Interest expense		607,944		488,491
Re-measurement:				
Experience adjustments		618,345		829,757
Actuarial changes arising from				007.004
changes in demographic assumptions Actuarial changes arising from		-		297,201
changes in financial assumptions		(751,911)		(92,338)
Payment	(3	3,601,027)		(2,275,731)
Ending balance	₩ 2	25,840,344	₩	23,920,619

21.3. Changes in plan assets for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended December 31, 2021			Year ended December 31, 2020		
Beginning balance	₩	23,588,372	₩	20,130,150		
Expected return on plan assets		598,818		491,875		
Re-measurement:						
Interest income from plan assets						
(Excluding the amount included in						
the interest income above)		(235,680)		(134,676)		
Contributions by employer		5,012,552		5,426,445		
Payment		(3,036,289)		(2,325,422)		
Ending balance	₩	25,927,773	₩	23,588,372		

21.4. Changes in the remeasurement of net defined benefit liabilities(assets) for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		ear ended mber 31, 2021	Year ended December 31, 2020			
Beginning balance	₩	(2,059,787)	₩	(1,188,579)		
Re-measurement on defined benefit liabilities		133,566		(1,034,620)		
Re-measurement on plan assets		(235,680)		(134,676)		
Other		-		(32,370)		
Income tax effect		28,081		330,458		
Ending balance	₩	(2,133,820)	₩	(2,059,787)		

21.5. The details of defined benefit liabilities for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		Year ended ember 31, 2021	Dec	Year ended December 31, 2020		
Current service cost	₩	5,046,374	₩	4,670,186		
Net interest expense (income)		9,126		(3,384)		
Defined benefit of severance payment	₩	5,055,500	₩	4,666,802		

21.6. The principal actuarial assumptions regarding to net defined liabilities(assets) as of December 31, 2021 and 2020 are as follows:

	December 31, 2021	December 31, 2020
Discount rate	3.34%	2.74%
Expected return ratio on plan assets	3.34%	2.74%
Future ratio of salary increase	2.00%+promotion rate	2.00%+promotion rate
Retirement rate by age	1.39%~38.20%	1.39%~38.20%
Mortality rate	0.002% ~ 0.099%	0.002% ~ 0.099%

21.7. Sensitivity analysis for actuarial assumptions in defined benefit liabilities as of December 31, 2021 is as follows (in thousands of Korean won):

	Decem	nber 31, 2021	1% Increase	1% Decrease
Fluctuation of future salary increase rate	₩	25,840,344	27,139,329	24,645,608
Fluctuation of discount rate	₩	25,840,344	24,673,349	27,132,083

- 21.8. As of December 31, 2021, the weighted average maturity of the defined benefit liabilities is 5.304 years and expected post-employment benefits are ₩5,055,008 thousand.
- 21.9. As of the end of the reporting period, plan assets are accumulated in cash, deposits, interest rate guaranteed retirement pensions, ELB/DLB, and etc.

22. Other liabilities

22.1. Details of other liabilities as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Dec	December 31, 2021		per 31, 2020
Other financial liabilities:				
Account payable for proprietary trading	₩	115,704,253	₩	187,845,467
Account payable for trading on consignment		342,039,671		377,059,366
Accounts payables		144,130,148		87,885,212
Accrued expense payables		788,575,301		599,400,421
Accrued dividend		4,587,411		1,861,016
Leasehold deposits received		50,000		2,415,000
Unsettled spot exchange		792,990,943		791,213,106
Unsettled difference		3,031,442		3,569,442
Lease liability		33,571,404		32,207,855
Lease deposits		284,576,953		245,547,071
Present value discount of other assets		(16,095,188)		(12,815,109)
Debts related to financial guarantee contract		66,811,993		65,130,580
Redeemable equity for non-controlling		07 500 540		44 044 400
shareholders	-	27,502,542		41,814,133
	-	2,587,476,873	2	2,423,133,560
Other non-financial liabilities:				
Advance receipts		41,544,329		34,825,949
Unearned income		161,217,874		108,021,327
Withholding tax		18,546,036		13,764,762
Others		16,415,226		3,937,440
		237,723,465		160,549,478
	₩	2,825,200,338	₩ 2	2,583,683,038

22.2. The amount of lease payment and interest expenses for lease liability which recognized as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		ear ended mber 31, 2021		Year ended ember 31, 2020
Lease payment	₩	9,401,156	₩	8,998,284
Interest expenses for lease liability		790.472		865.922

23. Derivative instruments

The Group uses derivative financial instruments such as interest rate swaps to exchange interest rates, currency swaps to hedge against exchange rate fluctuations, stock index options or stock index futures to generate profits.

23.1. The notional amount of derivative assets and liabilities outstanding as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	De		ecem	nber 31, 2021		
		Notional amount		Asset		Liability
Exchange-traded derivatives:						
Interest rates:						
Interest futures	₩	3,924,027,589	₩	853,299	₩	636,996
Currency:						
Currency futures		1,086,177,415		848,882		857,346
Stock:						
Stock futures		3,411,806,241		48,477,660		3,674,879
Stock option purchased		2,810,150,912		62,797,396		-
Stock option sold		5,744,557,030		-		217,225,895
Commodity:						
Commodity futures		152,329,862		58,360		11,401,694
		17,129,049,049		113,035,597		233,796,810
Over-the-counter derivatives:		_		_		_
Interest rates:						
Interest rate forward		706,000,000		45,013,294		789,834
Interest rate swap		307,385,027,243		700,397		4,783,460
Currency:						
Currency forward		6,601,502,181		40,856,052		54,533,842
Currency swap		1,127,103,757		11,372,247		10,041,173
Currency option purchased		37,936,000		1,119,848		-
Currency option sold		-		-		-
Stock:						
Stock swap		739,470,900		176,794		6,984,213
Options purchased		292,763,661		6,421,355		-
Options sold		4,424,284		-		289,870
Others:						
Other forward		-		-		-
Other swap		6,941,487,832		97,981,779		134,620,231
Other option						
Other option sold		500,000,000				762,118
		324,335,715,858		203,641,766		212,804,741
	₩	341,464,764,907	₩	316,677,363	₩	446,601,551

23.1. The notional amount of derivative assets and liabilities outstanding as of December 31, 2021 and 2020 are as follows (in thousands of Korean won) (cont'd):

	С	December 31, 2020	
	Notional amount	Asset	Liability
Exchange-traded derivatives:			
Interest rates:			
Interest futures	₩ 3,593,963,578	₩ 505,106	₩ 829,378
Currency:			
Currency futures	392,209,474	574	824,035
Stock:			
Stock futures	1,578,053,472	11,170,760	1,949,098
Stock option purchased	963,596,093	55,285,912	-
Stock option sold	3,071,434,201	-	79,898,643
Commodity:			
Commodity futures	5,226,492	86,298	76,116
	9,604,483,310	67,048,650	83,577,270
Over-the-counter derivatives:			
Interest rates:			
Interest rate forward	370,000,000	12,730,811	1,303,420
Interest rate swap	249,152,519,200	36,001,218	4,678,522
Currency:			
Currency forward	6,082,635,342	159,467,664	128,179,611
Currency swap	1,392,071,892	64,750,148	50,971,338
Currency option purchased	34,800,896	311,595	-
Currency option sold	34,800,896	-	311,371
Stock:			
Stock swap	20,389,892	2,926,450	917,183
Options purchased	31,106,539	6,116,479	-
Options sold	-	-	-
Others:			
Other forward	20,000,000	5,293,935	5,295,507
Other swap	4,397,628,945	89,278,529	8,074,066
Other option			
Other option sold			
	261,535,953,602	376,876,829	199,731,018
	₩ 271,140,436,912	₩ 443,925,479	₩ 283,308,288

23.2. Gain (loss) on valuation of trading derivative financial instruments for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended December 31, 2021		Year ended December 31, 2020	
Exchange-traded derivatives:		_		_
Interest rates	₩	7,535,060	₩	(3,241,044)
Currency		2,238,385		(1,778,788)
Stock		(7,044,483)		3,750,633
Stock index		41,852,467		72,006,666
Others		(11,343,334)		10,182
		33,238,095		70,747,649
Over-the-counter derivatives:		_		
Interest rates		32,521,284		17,194,135
Currency		(15,126,201)		38,908,373
Stock		(7,677,989)		2,699,309
Credit		(2,787,183)		-
Others		11,785,942		70,197,723
		18,715,853		128,999,540
	₩	51,953,948	₩	199,747,189

24. Capital stock

24.1. Company is authorized to issue 2,000,000,000 shares of common stock and has 681,730,579 shares and 36,956,520 shares of common and preferred stock issued and outstanding in the amount of ₩681,730,579 thousand and ₩94,448,208 thousand as of December 31, 2021 (Cancellation by profit redemption is excluded).

On July 30, 2018, July 1, 2019 and June 29, 2021, the Company redeemed 13,804,345 shares (the first issue), 15,434,781 shares (the second issue) and 28,252,562 shares (the third and fourth issue) of redeemable convertible preference shares on which the redemption right can be exercised by profit retirement. Therefore, the face values of the preferred stock capital and the number of issued shares do not match.

In addition, 5,729,981 shares of preferred stock is transferred to 5,768,852 shares of common stock in 2021. There is no preferred stock transferred to common stock in 2020.

Changes in capital stock for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won and number of shares):

Nordan won and named of charce).			
	Year ended December 31, 2021		
	Issued shares	(Capital stock
January 1, 2021	746,900,790 shares	₩	776,139,916
Redemption of redeemable convertible preferred stock	(28,252,562) shares		-
Conversion of redeemable convertible preferred stock (*1)	38,871 shares		38,871
December 31, 2021	718,687,099 shares	₩	776,178,787
	Year ended Dece	ember 31	, 2020
	Issued shares		Capital stock
January 1, 2020	688,249,764 shares	₩	717,488,890
Paid-in capital increase (*2)	58,651,026 shares		58,651,026
December 31, 2020	746,900,790 shares	₩	776,139,916

^(*1) Due to the paid-in capital increase during the previous year, the conversion ratio was adjusted from 1 common share per preferred share to 1.00678 common shares. During this period, capital increased due to the conversion of convertible preferred stocks into common stocks.

^(*2) Issued new stocks to Meritz Financial Group on a third-party allocation increase in 2020.

24.2. The Company has issued redeemable convertible preference shares, and has secured repayment rights for them. Besides, as no contractual obligation to deliver financial assets such as cash exits, they have been classified as equity. The details of redeemable convertible preference shares issued are as follows (excluding repayments prior to the previous period):

(1) 3rd issue

Classification	Details
Purpose of issue	Cumulative non-participating preferred stock
Total issued stock	23,913,042 shares
Issue price per a share (won)	₩4,600
Voting rights	No voting rights
Dividend rate	In the event of a dividend resolution in each fiscal year, dividends shall be paid within the scope of divisible profits. The initial dividend rate is 3.9%. Dividends on the stock are to be paid in cash. The payment of the dividend may be postponed at the discretion of the issuing company to the extent permitted under the applicable statutory decree.
The right of redemption	The issuing company has the right to redeem all or part of the shares from the date of the 3rd anniversary of the shares.
The right of conversion	① The right of conversion : Owned by preferred stock holder
	 2 The conversion date: from June 30, 2018 to June 30, 2047 (subject to change in accordance with the manner or procedure permitted by statute) 3 Ratio for conversion: A common stock for 1.00678 preferred stock
The 5 700 004 of the second	(Conversion ratio adjusted from 1:1 during the current period due to capital increase)

The 5,729,981 of issued stock is converted to common stock in 2021 and 11,669,629 of issued stock is converted to common stock in before the previous period. After conversion during this period, remaining 6,513,432 shares were redeemed.

(2) 4th issue

Classification	Details
Purpose of issue	Cumulative non-participating preferred stock
Total issued stock	21,739,130 shares
Issue price per a share (won)	₩4,600
Voting rights	With voting rights
Dividend rate	In the event of a dividend resolution in each fiscal year, dividends shall be paid within the scope of divisible profits. The initial dividend rate is 3.9%. Dividends on the stock are to be paid in cash. The payment of the dividend may be postponed at the discretion of the issuing company to the extent permitted under the applicable statutory decree.
The right of redemption	The issuing company has the right to redeem all or part of the shares from the date of the 3rd anniversary of the shares.
The right of conversion	① The right of conversion : Owned by preferred stock holder
	 ② The conversion date: from June 30, 2018 to June 30, 2047 (subject to change in accordance with the manner or procedure permitted by statute) ③ Ratio for conversion: A common stock for 1.00678 preferred stock (Conversion ratio adjusted from 1:1 during the current period due to capital increase)

The 21,739,130 of shares were redeemed in 2021

24.2. The Company has issued redeemable convertible preference shares, and has secured repayment rights for them. Besides, as no contractual obligation to deliver financial assets such as cash exits, they have been classified as equity. The details of redeemable convertible preference shares issued are as follows (excluding repayments prior to the previous period) (cont'd):

(3) 5th issue

(3) 301 188UE	
Classification	Details
Purpose of issue	Cumulative non-participating preferred stock
Total issued stock	8,695,652 shares
Issue price per a share (won)	₩9,200
Voting rights	No voting rights
Dividend rate	In the event of a dividend resolution in each fiscal year, dividends shall be paid within the scope of divisible profits. The initial dividend rate at the time of initial issuance of the shares will be determined as 1.542 times multiplied by the average interest rate of 2 year maturity A0 grade unsecured public offering bonds issued by financial institution II from the 'return on bond market valuation (Matrix)' which is announced by the Korea Financial Investment Association. Dividends on the stock are to be paid in cash. The payment of the dividend may be postponed at the discretion of the issuing company to the extent permitted under the applicable statutory decree.
The right of redemption	The issuing company has the right to redeem all or part of the shares from the date of the second anniversary of the shares.
The right of conversion	① The right of conversion : Owned by preferred stock holder
	② The conversion date: from June 30, 2022 to June 30, 2024 (subject to change in accordance with the manner or procedure permitted by statute)
	③ Ratio for conversion : A common stock for 1.00678 preferred stock (Conversion ratio adjusted from 1:1 during the current period due to capital increase)
The Company's charcholds	or Maritz Financial Holding Co., has signed a contract with charabolders of Cube.

The Company's shareholder, Meritz Financial Holding Co., has signed a contract with shareholders of Cube EM 1st Co., Ltd. The contract includes settlements of redeemable convertible preferred stocks, exercises of investors' put options, and contracts for the preferred right of the largest shareholders.

(4) 6th issue

Classification	Details
Purpose of issue	Cumulative non-participating preferred stock
Total issued stock	5,434,782 shares
Issue price per a share (won)	₩9,200
Voting rights	No voting rights
Dividend rate	In the event of a dividend resolution in each fiscal year, dividends shall be paid within the scope of divisible profits. The initial dividend rate at the time of initial issuance of the shares will be determined as 1.456 times multiplied by the average interest rate of 3 year maturity A0 grade unsecured public offering bonds issued by financial institution II from the 'return on bond market valuation (Matrix)' which is announced by the Korea Financial Investment Association. Dividends on the stock are to be paid in cash. The payment of the dividend may be postponed at the discretion of the issuing company to the extent permitted under the applicable statutory decree.
The right of redemption	The issuing company has the right to redeem all or part of the shares from the date of the 3rd anniversary of the shares.
The right of conversion	① The right of conversion : Owned by preferred stock holder
	 ② The conversion date: from June 30, 2022 to June 30, 2024 (subject to change in accordance with the manner or procedure permitted by statute) ③ Ratio for conversion: A common stock for 1.0069 preferred stock (Conversion ratio adjusted from 1:1 during the current period due to capital increase)

24.2. The Company has issued redeemable convertible preference shares, and has secured repayment rights for them. Besides, as no contractual obligation to deliver financial assets such as cash exits, they have been classified as equity. The details of redeemable convertible preference shares issued are as follows (excluding repayments prior to the previous period) (cont'd):

The Company's shareholder, Meritz Financial Holding Co., has signed a contract with shareholders of Cube EM 5th Co., Ltd. The contract includes settlements of redeemable convertible preferred stocks, exercises of investors' put options, and contracts for the preferred right of the largest shareholders.

(5) 7th issue Classification	Details
Purpose of issue	Cumulative non-participating preferred stock
Total issued stock	7,608,695 shares
Issue price per a share (won)	₩9,200
Voting rights	No voting rights
Dividend rate	In the event of a dividend resolution in each fiscal year, dividends shall be paid within the scope of divisible profits. The initial dividend rate at the time of initial issuance of the shares will be determined as 1.405 times multiplied by the average interest rate of 4 year maturity A0 grade unsecured public offering bonds issued by financial institution II from the 'return on bond market valuation (Matrix)' which is announced by the Korea Financial Investment Association. Dividends on the stock are to be paid in cash. The payment of the dividend may be postponed at the discretion of the issuing company to the extent permitted under the applicable statutory decree.
The right of redemption	The issuing company has the right to redeem all or part of the shares from the date of the 3rd anniversary of the shares.
The right of conversion	① The right of conversion : Owned by preferred stock holder
	 ② The conversion date: from June 30, 2022 to June 30, 2024 (subject to change in accordance with the manner or procedure permitted by statute) ③ Ratio for conversion: A common stock for 1.00678 preferred stock (Conversion ratio adjusted from 1:1 during the current period due to capital increase)

The Company's shareholder, Meritz Financial Holding Co., has signed a contract with shareholders of Cube EM 3rd Co., Ltd. and Cube EM 5th Co., Ltd. The contract includes settlements of redeemable convertible preferred stocks, exercises of investors' put options, and contracts for the preferred right of the largest shareholders.

(6) 8th issue

Classification	Details
Purpose of issue	Cumulative non-participating preferred stock
Total issued stock	15,217,391 shares
Issue price per a share (won)	₩9,200
Voting rights	No voting rights
Dividend rate	In the event of a dividend resolution in each fiscal year, dividends shall be paid within the scope of divisible profits. The initial dividend rate at the time of initial issuance of the shares will be determined as 1.320 times the average interest rate of 5 year maturity A0 grade unsecured public offering bonds issued by financial institution II from the 'return on bond market valuation (Matrix)' which is announced by the Korea Financial Investment Association. Dividends on the stock are to be paid in cash. The payment of the dividend may be postponed at the discretion of the issuing company to the extent permitted under the applicable statutory decree.
The right of redemption	The issuing company has the right to redeem all or part of the shares from the date of the 4th anniversary of the shares.

24.2. The Company has issued redeemable convertible preference shares, and has secured repayment rights for them. Besides, as no contractual obligation to deliver financial assets such as cash exits, they have been classified as equity. The details of redeemable convertible preference shares issued are as follows (excluding repayments prior to the previous period) (cont'd):

The right of conversion

- 1) The right of conversion: Owned by preferred stock holder
- ② The conversion date: from June 30, 2022 to June 30, 2024 (subject to change in accordance with the manner or procedure permitted by statute)
- 3 Ratio for conversion : A common stock for 1.00678 preferred stock (Conversion ratio adjusted from 1:1 during the current period due to capital increase)

The Company's shareholder, Meritz Financial Holding Co., has signed a contract with shareholders of Cube EM 4th Co., Ltd. The contract includes settlements of redeemable convertible preferred stocks, exercises of investors' put options, and contracts for the preferred right of the largest shareholders.

24.3. Hybrid bond which classified as a capital as of December 31, 2021 and 2020 consist of the following (in thousands of Korean won):

	Date of issue	Maturity	Interest Rate (%)	December 31, 2021	December 31, 2020
Private bond type				- W	W
hybrid bond 1 st (*) Private bond type	2019.12.20	2049.12.20	4.80	₩ 200,000,000	₩ 200,000,000
hybrid bond 2 nd	2020.01.31	2050.01.31	4.80	50,000,000	50,000,000
Private bond type	2024 05 22	2054 05 20	4.60	25 000 000	
hybrid bond 3-1 Private bond type	2021.05.28	2051.05.28	4.60	35,000,000	-
hybrid bond 3-2 (*)	2021.05.28	2051.05.28	4.90	260,000,000	-
Private bond type	0004 40 45	0054.40.45	4.00	450,000,000	
hybrid bond 4 th (*) Issue price	2021.10.15	2051.10.15	4.90	150,000,000 (259,250)	(113,540)
ioddo prioc				₩ 694,740,750	₩ 249,886,460

24.4. Above private bond type hybrid bond has no contractual obligation to deliver financial assets such as cash exits, they have been classified as equity. The details of private bond type hybrid bond are as follows:

Classification	Details
Revaluation interest rate	Revaluate rate of interest for every 10 years or every 7 years(3th-1), adding with interest rate to the final quoted yield of 10-year treasury bond
Interest payment condition	Payment is made every three months, and interest payments can be postponed at the option of consolidated group. When the interest payment is postponed, the interest rate, applied to the principal, additionally paid to the unpaid interest.
Maturity	The maturity term is 30 years, and if private bond type hybrid bond is not redeemed at the option, maturity is automatically extended for 30 years based on consolidated group's decision.

25. Other capital

25.1. Other capital as of December 31, 2021 and 2020 consist of the following (in thousands of Korean won):

	December 31, 2021		Dec	cember 31, 2020
Paid in capital in excess of par value	₩	1,548,139,222	₩	1,548,539,361
Gain on disposal of treasury stock		3,456,338		3,456,338
Others capital surplus(*)		1,961,311		1,961,311
Treasury stock		(262,529,550)		(9,717,829)
Stock options (*)		3,961,880		3,847,831
Expense burden for share option of parent				
company		(24,742,842)		
	₩	1,270,246,359	₩	1,548,087,012

^(*) See share-based payment transaction (Note 26)

25.2. Changes in other capital for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Dec	Year ended cember 31, 2021	Year ended December 31, 2020		
Beginning balance	₩	1,548,087,012	₩	1,406,942,024	
Allocated expense of share based payment		114,050		114,050	
Disposal of treasury stock		-		47	
Paid-in capital increase		-		141,030,891	
Acquisition of treasury stock Expense burden for share option of parent		(252,811,722)		-	
company Conversion expense of redeemable convertible		(24,742,842)		-	
preferred share to common share		(48,639)		-	
Redemption of hybrid bond		(255,500)		-	
Paid-in capital increase of subsidiary company		(96,000)		<u>-</u>	
Ending balance	₩	1,270,246,359	₩	1,548,087,012	

25.3. During this period, the company concluded a trust contract for acquiring treasury stocks through a resolution of the board of directors to enhance shareholder value. The details of trust contract is as follows:

Company	Contract amount		Term of contract
NH Investment&Securities Co.,Ltd,			
Samsung securities Co., Ltd	₩	100 billion	2021.03.18~2022.03.17
NH Investment&Securities Co.,Ltd,			
Samsung securities Co., Ltd	₩	100 billion	2021.06.24~2022.06.23
Samsung securities Co., Ltd	₩	140 billion	2021.11.12~2022.11.11

The stocks acquired through the trust contract will be on retirement of stock after completion of the acquisition. As of the end of the current period, there are 52,320,000 treasury stocks acquired through the trust contract.

26. Share-based payment transaction

The Group and Meritz Financial Group Inc., the holding company of the Group, granted stock options based on the special resolution at the general meeting of shareholders in accordance with the Korean commercial code.

26.1. The details of stock options granted by the Group as of December 31, 2021 are summarized as follows (in Korean won and number of shares):

		Stock options	Settlement	Number of shares that can	Exercise	Contracted service provision	Exercisable	Fair value as of grant
Part	Basic Shares	granted	date	be exercised	price	period	period	date (*)
Share-based	Meritz Securities	2,900,000	2015.03.20	2,900,000	₩ 4,380	2015.01.01	2020.01.01	₩ 1,109
payment	Co., Ltd	shares		shares		~2019.12.31	~2024.12.31	
Share-based	Meritz Securities	2,000,000	2018.03.16	1,918,496	5,000	2018.01.01	2023.01.01	287
payment	Co., Ltd	shares		shares		~2022.12.31	~2027.12.31	
Share-based	Meritz Financial	1,232,000	2015.03.20	555,480	10,820	2015.01.01	2020.01.01	33,180
payment	Group Inc.	shares		shares		~2019.12.31	~2024.12.31	

^(*) The fair value of the share-based payment is the fair value as of grant date, and the fair value of the Meritz financial group is the fair value as of the settlement date.

26.2. Changes in stock options granted during the years ended December 31, 2021 and 2020 are summarized as follows (number of shares):

	Year ended Dec	ember 31, 2021	Year ended December 31, 202			
	Meritz Securities Co., Ltd.	Meritz Financial Group Inc.	Meritz Securities Co., Ltd.	Meritz Financial Group Inc.		
Beginning balance	4,818,496 shares	1,155,480 shares	4,818,496 shares	1,209,051 shares		
Number of options granted	-	-	-	-		
Exercise	-	(600,000) shares	-	-		
Number of options decreased(*)	<u> </u>			(53,571) shares		
Ending balance	4,818,496 shares	555,480 shares	4,818,496 shares	1,155,480 shares		

^(*) This is the adjusted amount due to the decrease in the number of grants due to the retirement of treasury stocks (retirement of profits).

26.3. Stock option granted by the Group is evaluated by using binomial model of option pricing model, and major inputs of evaluation model are as follows.

Part	Basic shares	Date	Closing price (*1)	Option price	Expected volatility (*3)	Risk free interest rate	Dividend yield ratio
Share-based payment	Meritz Securities	2015.03.20	₩ 5,010	₩ 4,380	24.43%	2.12%	4.90%
Share-based	Co., Ltd. Meritz Securities	2018.03.16	4,510	5,000	14.60%	2.60%	4.41%
payment Share-based	Co., Ltd. Meritz Financial	2015.03.20	44.000	10.820	7.30%	1.81%	2.05%
payment	Group Inc.(*2)	2010.00.20	74,000	10,020	7.5070	1.0170	2.0070

^(*1) The closing price of the share-based payment is the closing price as of grant date, and the closing price of the Meritz financial group is the closing price as of the settlement date.

^(*2) Meritz Financial Group shares are granted under the stock-based compensation agreement, and the difference in compensation costs that consolidated companies must pay to Meritz Financial Group under the payment agreement is reflected in capital.

^(*3) The estimated share volatility is assessed based on equity volatility for the past 5 years.

26.4. As the Group was granted stock options, it accounted for $\mbox{$\mathbb{W}$}6,045,407$ thousand and $\mbox{$\mathbb{W}$}$ 5,931,357 thousand as other components of equity as at December 31, 2021 and 2020, respectively. Also, the group accounted for $\mbox{$\mathbb{W}$}$ 18,430,826 thousand and $\mbox{$\mathbb{W}$}$ 369,055 thousand as expenses payable as at December 31, 2021 and 2020.

The amount that recognized as share-based payments (redemption), $\mbox{$\mathbb{W}$}$ 114,050 thousand and (-) $\mbox{$\mathbb{W}$}$ 897,106 thousand, were treated as sales and administrative expense for the year ended December 31, 2021 and 2020. Also, the amount $\mbox{$\mathbb{W}$}$ 24,742,842 thousand was treated as other components of equity.

26.5. The Group applies the best practices of the financial investment company's performance compensation system and accordingly, a portion of executive compensation, tied to daily average stock prices, is deferred and paid in cash. These payments are other long-term employee benefits and are accounted as liability, which is measured at fair value at the end of every reporting period. Fair value changes are recognized in profit or loss. For the fair value of the liability, Monte Carlo Simulation is utilized by using the stock price prediction method. Details of the cash-settled share-based payments as of December 31, 2021 are as follows (*in thousands of Korean won*):

			Before fair value				
	Book value		assessment		Variation of fair value	_Int	rinsic value of liability
₩	76,212,884	₩	52,614,465	₩	23,598,419	₩	76,460,425

26.6. Deferred performance compensation linked to Return of Equity(ROE)

The Group applies the best practices of the financial investment company's performance compensation system and accordingly, a portion of executive compensation, tied to the Company's ROE, is deferred and paid in cash. These payments are other long-term employee benefits and are accounted as liability, which is measured at fair value at the end of every reporting period. Fair value changes are recognized in profit or loss. Fair value of liability is estimated by using the target ROE and discounted by applying AA- grade rate of return of unsecured financial institution bond which is disclosed by the Korea Financial Investment Association. As of December 31, 2021, details of the performance compensation are as follows (in thousands of Korean won):

Book value		Before fair value assessment			Variation of fair value		
₩	135,174,726	₩	120,748,402	₩	14,426,324		

27. Accumulated other comprehensive income

Accumulated other comprehensive income as of December 31, 2021 and 2020 consist of the following (in thousands of Korean won):

	December 31, 2021	December 31, 2020
Gain on valuation of equity securities measured at FVOCI:		
Equity securities	₩ 200,629,186	₩ 173,847,253
Income tax effect	(55,072,712)	(47,721,071)
	145,556,474	126,126,182
Gain on valuation of debt securities measured at FVOCI:		.==, .==, .==
Debt securities	8,702,975	380,991
Income tax effect	(2,388,967)	(104,582)
	6,314,008	276,409
Gain (loss) on valuation of investment stock using the equity method :		
Gain (loss) on valuation of investment stock using the equity method	-	(1,741,140)
Income tax effect	_	477,943
		(1,263,197)
Exchange differences on translation of foreign operations:		(:,===,:=:)
Exchange differences on translation of foreign operations	4,192,693	(1 077 222)
Income tax effect		(1,977,233) 542,750
income tax effect	(1,150,894)	(1,434,483)
Remeasurement of the defined benefit liability:	3,041,799	(1,434,403)
Actuarial loss	(2,911,282)	(2,809,168)
Income tax effect	777,463	749,381
	(2,133,819)	(2,059,787)
Other:		
Credit risk fluctuation effect of financial liabilities		
designated at FVTPL	(5,020)	577,165
Income tax effect	1,422	(158,388)
	(3,598)	418,777
	₩ 152,774,864	₩ 122,063,901

28. Retained earnings

28.1. Retained earnings as of December 31, 2021 and 2020 consist of the following (in thousands of Korean won):

	December 31, 2021			cember 31, 2020
Legal reserve	₩	109,212,330	₩	86,945,230
Regulatory reserve for credit losses		147,515,610		232,974,833
Voluntary reserves		120,899,632		253,511,974
Unappropriated retained earnings		1,938,401,034		1,344,759,368
	₩	2,316,028,606	₩	1,918,191,405

28.2. Changes in unappropriated retained earnings for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended December 31, 2021			Year ended cember 31, 2020
Beginning balance	₩	1,344,759,368	₩	1,145,656,700
Regulatory reversal(transfer) for credit losses		85,459,223		(68,127,585)
Transfer voluntary reserves		-		(129,413,787)
Cash dividends		(222,671,002)		(135,745,771)
Transfer of legal reserve		(22,267,100)		(13,752,958)
Dividends paid of hybrid bond		(22,139,716)		(12,124,590)
Gain (loss) on disposal of equity securities				
measured at FVOCI		391,500		970
Net income of non-controlling interests		774,868,761		558,266,389
Ending balance	₩	1,938,401,034	₩	1,344,759,368

28.3. In case the total sum of allowance for credit losses does not meet the amount prescribed in the Regulations 3-8 on Financial Investment Business, the Group is required to compensate for the difference, if any, at the reporting date as a regulatory reserve for credit losses. In case the amount of the existing regulatory reserve for credit losses exceeds the amount needed to be set aside as of the current period, the difference, if any, shall be reversed. If there is an undisposed deficit, the Group can accumulate reserves for credit losses after disposing of the deficit.

28.3.1. Changes in regulatory reserve for credit losses for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		Year ended ember 31, 2021	Year ended December 31, 2020		
Appropriated regulatory reserve for credit losses Expected reversal (transfer) amount of regulatory reserve		147,515,610	₩	232,974,833	
for credit losses		33,876,123		(85,459,223)	
Ending of regulatory reserve for credit losses	₩	181,391,733	₩	147,515,610	

28.3.2. Provision of regulatory reserve for credit losses and adjusted income after the provision of regulatory reserve for credit losses for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		Year ended ember 31, 2021	Year ended December 31, 2020		
Net income	₩	774,868,761	₩	558,266,389	
Planned reversal (transfer) of provision of regulatory					
reserve for credit losses		(33,876,123)		85,459,223	
Adjusted income after provision of					
regulatory reserve for credit losses (*)	₩	740,992,638	₩	643,725,612	
Earnings per share (won)	₩	1,146	₩	1,005	

^(*) Adjusted income after provision of regulatory reserve for credit losses is hypothetical amount not in accordance with K-IFRS. The amount was calculated by adding (deducting) provision from net income.

28.4. The details of dividends accounted for in the statements of appropriation of retained earnings for the years ended December 31, 2021 and 2020 are as follows:

28.4.1. Details of dividend calculation (in thousands of Korean won and number of shares):

		Year ended D	ecember 31, 2021		
	Number of shares to be assigned (in shares) (*)	Fixed dividend rate	Dividend per share (won)	Total	dividend
Common stock	586,872,397 shares	10%	₩ 100	₩	58,687,240
Preferred stock 5th	8,695,652 shares	28%	283		2,464,789
Preferred stock 6th	5,434,782 shares	28%	275		1,495,000
Preferred stock 7th	7,608,695 shares	37%	372		2,834,213
Preferred stock 8th	15,217,391 shares	43%	430		6,538,000
	623,828,917 shares			₩	72,019,242
		Year ended D	ecember 31, 2020		
	Number of shares to				
	be assigned	Fixed dividend	Dividend per share		
	(in shares) (*)	rate	(won)	Total	dividend
Common stock	632,823,545 shares	32%	₩ 320	₩ 2	202,503,534
Preferred stock 3rd	12,243,413 shares	18%	179		2,196,468
Preferred stock 4th	21,739,130 shares	18%	179		3,900,000
Preferred stock 5th	8,695,652 shares	29%	289		2,512,000
Preferred stock 6th	5,434,782 shares	34%	342		1,857,000
Preferred stock 7th	7,608,695 shares	42%	416		3,164,000
Preferred stock 8th	15,217,391 shares	43%	430		6,538,000
	703,762,608 shares			₩ 2	222,671,002

^(*) Treasury stock held by the Company is excluded as of December 31, 2021 and 2020.

28.4.2. Dividend payout ratio (in thousands of Korean won):

	`	Year ended	•	Year ended	
	Dece	ember 31, 2021	December 31, 2020		
Total dividend	₩	72,019,242	₩	222,671,002	
Net income attributable to controlling interests		774,868,761		558,266,389	
Dividend payout ratio		9.29%		39.89%	

28.4.3. Dividend yield ratio (in Korean won):

Part (*1)		r ended per 31, 2021	Year ended December 31, 2020		
A dividend per share	₩	100	₩	320	
Average of pre-dividend closing price per share(*2)		5,288		3,866	
Dividend yield ratio		1.9%		8.3%	

^(*1) Since preferred stocks were not listed, the dividend yield rate was calculated only for common stock.

29. Net fees and commission income

Net fees and commission income for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended			Year ended		
	Dec	ember 31, 2021	December 31, 2020			
Fees and commission income:						
Brokerage commissions	₩	120,909,569	₩	106,473,983		
Underwriting commissions		8,382,663		13,327,447		
Brokerage commissions						
on collective investment securities		7,509,754		5,922,239		
Management fees on wrap account						
and asset management		18,475,881		10,183,976		
Finance commissions		327,354,166		285,752,090		
Fees on trust accounts		4,558,313		3,132,330		
Commissions on CMA		-		1,019		
Others		218,681,904		158,128,900		
		705,872,250		582,921,984		
Fees and commission expense:						
Trading commissions		(15,907,287)		(9,355,736)		
Lending and borrowing transaction commissions		(44,434,992)		(17,332,782)		
Others		(49,383,887)		(41,164,535)		
		(109,726,166)		(67,853,053)		
	₩	596,146,084	₩	515,068,931		

30. Gain (loss) on financial assets and liabilities

30.1. Gain (loss) on financial assets does not include interest income and dividends income. Interest income and dividends income are disclosed separately in Notes 31 and 33, respectively.

^(*2) The arithmetic average of the closing price announced in the previous week until 2 days ago from the dividend date.

30.2. Gain (loss) on financial instruments measured at FVTPL for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		Year end	led December 31, 20	21	
	Gain on disposal	Loss on disposal	Gain on valuation	Loss on valuation	Net gain(loss)
Financial assets Measured at FVTPL					
Stock Bonds	₩ 572,845,569 248,642,400	W (370,742,982) (552,944,161)	₩ 72,709,994 35,575,296	₩ (26,174,949) (107,674,843)	
Collective investment securities Commercial paper	550,823,047 25,959,005	(506,586,638) (23,798,403)	35,526,013 176,138	(9,687,277) (764,638)	70,075,145 1,572,102
Asset backed short-term bonds	796,937	(42,852)	84,972	(1,843)	
Loans Compound financial	5,487,583	(2,808,012)	392,922	(29,617,927)	(26,545,434)
instruments Reserve for claims of customers' deposits	18,233,676	(3,355,120)	43,021,285	(27,369,243)	30,530,598
(trust) Equity-linked securities Stock warrant securities	12,460,757 8	(28,524) (7,403)	8,141,908 5,411,047 -	(2,407,325) -	8,141,908 15,435,955 (7,395)
Other	4,656,322	(1,467,954)	32,062,471	(10,955,576)	24,295,263
Financial liabilities Measured at FVTPL	1,439,905,304	(1,461,782,049)	233,102,046	(214,653,621)	(3,428,320)
Securities sold Bonds sold Collective investment	515,685,677 201,061,647	(534,127,037) (127,213,422)	69,382,348 26,762,423	(48,260,133) (12,045,079)	
securities sold	13,501,350	<u>-</u>	1,168,800		14,670,150
	730,248,674	(661,340,459)	97,313,571	(60,305,212)	105,916,574
	₩ 2,170,153,978	₩ (2,123,122,508)	₩ 330,415,617	₩ (274,958,833)	₩ 102,488,254
	-	Year end	ed December 31, 202	20	
Financial assets	Gain on disposal	Loss on disposal	Gain on valuation	Loss on valuation	Net gain(loss)
Financial assets Measured at FVTPL	Gain on disposal				Net gain(loss)
	Gain on disposal ₩ 487,423,565	Loss on disposal		Loss on valuation	Net gain(loss) ₩ 172,573,553
Measured at FVTPL Stock Bonds Collective investment	₩ 487,423,565 3 311,228,198	Loss on disposal (351,914,896) (325,087,255)	Gain on valuation ₩ 45,480,107 12,553,833	Use on valuation ₩ (8,415,223) (91,389,066)	₩ 172,573,553 (92,694,290)
Measured at FVTPL Stock Bonds Collective investment securities Commercial paper	₩ 487,423,565	Loss on disposal ₩ (351,914,896)	Gain on valuation ₩ 45,480,107	Loss on valuation ₩ (8,415,223)	₩ 172,573,553
Measured at FVTPL Stock Bonds Collective investment securities	₩ 487,423,565 3 311,228,198 763,811,026	Uss on disposal (351,914,896) (325,087,255) (748,158,975)	Gain on valuation ₩ 45,480,107 12,553,833 118,018,861	Uses on valuation ₩ (8,415,223) (91,389,066) (934,822)	₩ 172,573,553 (92,694,290) 132,736,090 3,791,368 1,129,275
Measured at FVTPL Stock Bonds Collective investment securities Commercial paper Asset backed short-term bonds Loans	W 487,423,565 311,228,198 763,811,026 20,264,594	W (351,914,896) (325,087,255) (748,158,975) (16,557,159)	Gain on valuation ₩ 45,480,107 12,553,833 118,018,861 99,937	W (8,415,223) (91,389,066) (934,822) (16,004)	₩ 172,573,553 (92,694,290) 132,736,090 3,791,368
Measured at FVTPL Stock Bonds Collective investment securities Commercial paper Asset backed short-term bonds Loans Compound financial instruments Reserve for claims of	W 487,423,565 311,228,198 763,811,026 20,264,594 1,170,679	W (351,914,896) (325,087,255) (748,158,975) (16,557,159)	W 45,480,107 12,553,833 118,018,861 99,937 15,315	W (8,415,223) (91,389,066) (934,822) (16,004) (10)	₩ 172,573,553 (92,694,290) 132,736,090 3,791,368 1,129,275
Measured at FVTPL Stock Bonds Collective investment securities Commercial paper Asset backed short-term bonds Loans Compound financial instruments Reserve for claims of customers' deposits (trust)	W 487,423,565 311,228,198 763,811,026 20,264,594 1,170,679 691,897	Uss on disposal (351,914,896) (325,087,255) (748,158,975) (16,557,159) (56,709) -	W 45,480,107 12,553,833 118,018,861 99,937 15,315 1,016,984	W (8,415,223) (91,389,066) (934,822) (16,004) (10) (19,401,346)	₩ 172,573,553 (92,694,290) 132,736,090 3,791,368 1,129,275 (17,692,465)
Measured at FVTPL Stock Bonds Collective investment securities Commercial paper Asset backed short-term bonds Loans Compound financial instruments Reserve for claims of customers' deposits (trust) Equity-linked securities	W 487,423,565 311,228,198 763,811,026 20,264,594 1,170,679 691,897 74,449,798	Uss on disposal (351,914,896) (325,087,255) (748,158,975) (16,557,159) (56,709) - (9,452,667)	Gain on valuation ₩ 45,480,107 12,553,833 118,018,861 99,937 15,315 1,016,984 29,344,535 7,770,779 6,081,042	Uses on valuation W (8,415,223) (91,389,066) (934,822) (16,004) (10) (19,401,346) (1,082,756) - (17,412)	₩ 172,573,553 (92,694,290) 132,736,090 3,791,368 1,129,275 (17,692,465) 93,258,910 7,770,779 9,189,299
Measured at FVTPL Stock Bonds Collective investment securities Commercial paper Asset backed short-term bonds Loans Compound financial instruments Reserve for claims of customers' deposits (trust)	W 487,423,565 311,228,198 763,811,026 20,264,594 1,170,679 691,897 74,449,798	Uss on disposal (351,914,896) (325,087,255) (748,158,975) (16,557,159) (56,709) - (9,452,667)	Gain on valuation ₩ 45,480,107 12,553,833 118,018,861 99,937 15,315 1,016,984 29,344,535 7,770,779	Uses on valuation ₩ (8,415,223) (91,389,066) (934,822) (16,004) (19,401,346) (1,082,756)	₩ 172,573,553 (92,694,290) 132,736,090 3,791,368 1,129,275 (17,692,465) 93,258,910 7,770,779
Measured at FVTPL Stock Bonds Collective investment securities Commercial paper Asset backed short-term bonds Loans Compound financial instruments Reserve for claims of customers' deposits (trust) Equity-linked securities Others CMA-notes discounted	W 487,423,565 311,228,198 763,811,026 20,264,594 1,170,679 691,897 74,449,798	Uss on disposal (351,914,896) (325,087,255) (748,158,975) (16,557,159) (56,709) - (9,452,667)	Gain on valuation ₩ 45,480,107 12,553,833 118,018,861 99,937 15,315 1,016,984 29,344,535 7,770,779 6,081,042	Uses on valuation W (8,415,223) (91,389,066) (934,822) (16,004) (10) (19,401,346) (1,082,756) - (17,412)	₩ 172,573,553 (92,694,290) 132,736,090 3,791,368 1,129,275 (17,692,465) 93,258,910 7,770,779 9,189,299 15,166,004
Measured at FVTPL Stock Bonds Collective investment securities Commercial paper Asset backed short-term bonds Loans Compound financial instruments Reserve for claims of customers' deposits (trust) Equity-linked securities Others	W 487,423,565 311,228,198 763,811,026 20,264,594 1,170,679 691,897 74,449,798 3,161,276 8,158,477 1,996	Uss on disposal (351,914,896) (325,087,255) (748,158,975) (16,557,159) (56,709) - (9,452,667) (35,607) (1,148,100) - (1,452,411,368)	Gain on valuation ₩ 45,480,107 12,553,833 118,018,861 99,937 15,315 1,016,984 29,344,535 7,770,779 6,081,042 12,250,014	W (8,415,223) (91,389,066) (934,822) (16,004) (10) (19,401,346) (1,082,756) (17,412) (4,094,387) (125,351,026)	₩ 172,573,553 (92,694,290) 132,736,090 3,791,368 1,129,275 (17,692,465) 93,258,910 7,770,779 9,189,299 15,166,004 1,996 325,230,519
Measured at FVTPL Stock Bonds Collective investment securities Commercial paper Asset backed short-term bonds Loans Compound financial instruments Reserve for claims of customers' deposits (trust) Equity-linked securities Others CMA-notes discounted	W 487,423,565 311,228,198 763,811,026 20,264,594 1,170,679 691,897 74,449,798 3,161,276 8,158,477 1,996 1,670,361,506	Loss on disposal (351,914,896) (325,087,255) (748,158,975) (16,557,159) (56,709) - (9,452,667) (1,148,100) - (1,452,411,368)	Gain on valuation ₩ 45,480,107 12,553,833 118,018,861 99,937 15,315 1,016,984 29,344,535 7,770,779 6,081,042 12,250,014 - 232,631,407 4,792,069	W (8,415,223) (91,389,066) (934,822) (16,004) (10) (19,401,346) (1,082,756) (17,412) (4,094,387) - (125,351,026) (90,061,810)	₩ 172,573,553 (92,694,290) 132,736,090 3,791,368 1,129,275 (17,692,465) 93,258,910 7,770,779 9,189,299 15,166,004 1,996 325,230,519 (331,411,076)
Measured at FVTPL Stock Bonds Collective investment securities Commercial paper Asset backed short-term bonds Loans Compound financial instruments Reserve for claims of customers' deposits (trust) Equity-linked securities Others CMA-notes discounted Financial liabilities Measured at FVTPL Securities sold Bonds sold Collective investment	W 487,423,565 311,228,198 763,811,026 20,264,594 1,170,679 691,897 74,449,798 3,161,276 8,158,477 1,996 1,670,361,506 408,555,232 86,476,710	Uss on disposal (351,914,896) (325,087,255) (748,158,975) (16,557,159) (56,709) - (9,452,667) (1,148,100) - (1,452,411,368) (654,696,567) (115,056,298)	Gain on valuation ₩ 45,480,107 12,553,833 118,018,861 99,937 15,315 1,016,984 29,344,535 7,770,779 6,081,042 12,250,014 232,631,407	W (8,415,223) (91,389,066) (934,822) (16,004) (10) (19,401,346) (1,082,756) (17,412) (4,094,387) (125,351,026) (90,061,810) (1,403,857)	₩ 172,573,553 (92,694,290) 132,736,090 3,791,368 1,129,275 (17,692,465) 93,258,910 7,770,779 9,189,299 15,166,004 1,996 325,230,519 (331,411,076) 602,312
Measured at FVTPL Stock Bonds Collective investment securities Commercial paper Asset backed short-term bonds Loans Compound financial instruments Reserve for claims of customers' deposits (trust) Equity-linked securities Others CMA-notes discounted Financial liabilities Measured at FVTPL Securities sold Bonds sold	W 487,423,565 311,228,198 763,811,026 20,264,594 1,170,679 691,897 74,449,798 3,161,276 8,158,477 1,996 1,670,361,506 408,555,232 86,476,710 9,679,356	Loss on disposal (351,914,896) (325,087,255) (748,158,975) (16,557,159) (56,709) - (9,452,667) - (35,607) (1,148,100) - (1,452,411,368) (654,696,567) (115,056,298) (17,383,144)	Gain on valuation ₩ 45,480,107 12,553,833 118,018,861 99,937 15,315 1,016,984 29,344,535 7,770,779 6,081,042 12,250,014 232,631,407 4,792,069 30,585,757	Uses on valuation W (8,415,223) (91,389,066) (934,822) (16,004) (10) (19,401,346) (1,082,756) - (17,412) (4,094,387) - (125,351,026) (90,061,810) (1,403,857) (9,844,668)	₩ 172,573,553 (92,694,290) 132,736,090 3,791,368 1,129,275 (17,692,465) 93,258,910 7,770,779 9,189,299 15,166,004 1,996 325,230,519 (331,411,076) 602,312 (17,548,456)
Measured at FVTPL Stock Bonds Collective investment securities Commercial paper Asset backed short-term bonds Loans Compound financial instruments Reserve for claims of customers' deposits (trust) Equity-linked securities Others CMA-notes discounted Financial liabilities Measured at FVTPL Securities sold Bonds sold Collective investment	W 487,423,565 311,228,198 763,811,026 20,264,594 1,170,679 691,897 74,449,798 3,161,276 8,158,477 1,996 1,670,361,506 408,555,232 86,476,710	Loss on disposal (351,914,896) (325,087,255) (748,158,975) (16,557,159) (56,709) - (9,452,667) - (35,607) (1,148,100) - (1,452,411,368) (654,696,567) (115,056,298) (17,383,144) (787,136,009)	Gain on valuation ₩ 45,480,107 12,553,833 118,018,861 99,937 15,315 1,016,984 29,344,535 7,770,779 6,081,042 12,250,014 232,631,407 4,792,069 30,585,757 35,377,826	Uses on valuation W (8,415,223) (91,389,066) (934,822) (16,004) (10) (19,401,346) (1,082,756) - (17,412) (4,094,387) - (125,351,026) (90,061,810) (1,403,857) (9,844,668) (101,310,335)	₩ 172,573,553 (92,694,290) 132,736,090 3,791,368 1,129,275 (17,692,465) 93,258,910 7,770,779 9,189,299 15,166,004 1,996 325,230,519 (331,411,076) 602,312

30.3. Gain (loss) on financial assets and liabilities designated at fair value through profit or loss for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended December 31, 2021								
		Gain on		Loss on		Gain on		Loss on	Net gain
		disposal		Disposal		valuation		valuation	(loss)
Financial liabilities designated at fair value through profit or loss: Equity linked securities sold	₩	432,013	₩	(304,561,343)	₩	99,221,382	₩	(94,536,943)	₩ (299,444,891)
Derivative linked	**	432,013	**	(304,301,343)	**	99,221,302	**	(94,000,940)	(233,444,031)
securities sold		316,308		(11,037,792)		1,038,567		(8,420,689)	(18,103,606)
Others		1,459,947		(61,955,601)		8,468,520		(811,158)	(52,838,292)
	₩	2,208,268	₩	(377,554,736)	₩	108,728,469	₩	(103,768,790)	₩ (370,386,789)
				Year (ende	ed December 3	1, 2	020	
		Gain on		Loss on		Gain on		Loss on	Net gain
		disposal		Disposal		valuation		valuation	(loss)
Financial liabilities designated at fair value through profit or loss: Equity linked securities									
sold Derivative linked	₩	13,180,262	₩	(174,924,145)	₩	7,089,689	₩	(118,434,455)	₩ (273,088,649)
securities sold Others		2,234,347 27,878,709		(10,468,791) (55,957,834)		5,808,972 158,615		(1,416,446) (12,455,255)	(3,841,918) (40,375,765)
	₩	43,293,318	₩	(241,350,770)	₩	13,057,276	₩	(132,306,156)	₩ (317,306,332)

30.4. Gain (loss) on financial assets measured at FVOCI for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

2020 are as follows (in thousands	of	Korean won):	•				·			
	Year ended December 31, 2021									
		Gain on	Loss on	Reversal of expected credit			Net gain			
		disposal	disposal		losses		(loss)			
Bonds	₩	1,607,935	(2,396,716)	₩	(1,710,620)	₩	(2,499,401)			
			Year ended Dec							
		_		-	Reversal of					
		Gain on disposal	Loss on disposal	exp	pected credit losses		Net gain (loss)			
Bonds	₩	20,130	(16,987)	₩	(85,013)	₩	(81,870)			

30.5. Gain (loss) on other financial liabilities for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Gain on valuation		Loss on valuation			Net gain
Other financial liabilities	₩	70	₩	(1,002)	₩	(932)
		Year	ended D	ecember 31,	2020	
	Gain on	valuation	Loss o	n valuation		Net gain
Other financial liabilities	₩	15	₩	(5)	₩	10

- 30.6. The ₩438,447 thousand of gain on early repayment of bonds and ₩732,887 thousand of loss on early repayment of bonds are incurred during previous reporting period.
- 30.7. Gain (loss) on financial derivatives for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended December 31, 2021									
	G	ain on disposal/ redemption	L	oss on disposal/ redemption	Gai	n on valuation	Los	ss on valuation	Ne	et gain(loss)
Exchange-traded derivatives:		· ·								
Futures	₩	1,133,687,873	₩	(1,143,626,197)	₩	77,785,077	₩	(35,653,638)	₩	32,193,115
Option		490,672,137		(432,500,200)		69,503,434		(78,396,778)		49,278,593
Over-the-counter derivatives:		14,781,956,160		(14,528,577,716)		257,399,057		(238,683,203)		272,094,298
	₩	16,406,316,170	₩	(16,104,704,113)	₩	404,687,568	₩	(352,733,619)	₩	353,566,006

	Year ended December 31, 2020								
	Gain on disposal/	Loss on disposal/							
	redemption	redemption	Gain on valuation	Loss on valuation	Net gain(loss)				
Exchange-traded derivatives:									
Futures	₩ 1,207,348,116	₩ (1,136,023,957)	₩ 46,204,615	₩ (34,089,669)	₩ 83,439,105				
Option	434,264,803	(340,091,602)	75,935,011	(17,302,309)	152,805,903				
Over-the-counter derivatives:	8,398,349,699	(8,220,996,833)	355,317,064	(226,317,523)	306,352,407				
	₩ 10,039,962,618	₩ (9,697,112,392)	₩ 477,456,690	₩ (277,709,501)	₩ 542,597,415				
Futures Option	₩ 1,207,348,116 434,264,803 8,398,349,696	(340,091,602) (8,220,996,833)	₩ 46,204,615 75,935,011 355,317,064	W (34,089,669) (17,302,309) (226,317,523)	₩ 83,43 152,80 306,35				

31. Net interest income

Net interest income for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

worn.	Year ended December 31, 2021	Year ended December 31, 2020
Interest income:		
Cash and due from banks	₩ 16,377,105	₩ 21,040,906
Financial assets at fair value through profit or loss	482,858,861	382,543,458
Financial assets measured at FVOCI	13,909,765	3,046,137
Loans, etc.	614,315,231	669,946,666
CMA	-	8,306
Others	32,954,472	23,150,219
	1,160,415,434	1,099,735,692
Interest expense:		
Deposits	(2,781,299)	(5,432,549)
Borrowings	(165,878,486)	(193,408,993)
Bonds	(178,221,282)	(193,257,077)
Others	(46,431,666)	(32,785,126)
	(393,312,733)	(424,883,745)
	₩ 767,102,701	₩ 674,851,947

32. Selling and administrative expense

Selling and administrative expenses for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	=	ear ended mber 31, 2021	·=·	ear ended mber 31, 2020	
Payroll expenses:					
Salary expenses	₩	536,429,873	₩	396,842,395	
Post-employment benefits (DB)		5,055,500		4,666,802	
Post-employment benefits (DC)		6,606,239		6,264,681	
Early retirement benefits		373,598		389,740	
Compensation Expenses Associated with Stock Option		114,050	(897,106)		
		548,579,260		407,266,512	
General and administrative expenses:					
Employee benefits		43,443,707		36,436,897	
Electronic data processing expenses		10,867,049		10,388,219	
Rental expense		8,867,926		8,442,406	
Commission expense		56,613,199		49,149,812	
Entertainment expenses		9,280,287		8,518,870	
Advertising expense		3,374,360		2,663,079	
Depreciation		16,096,561		15,634,432	
Training expenses		81,652		109,277	
Amortization		4,483,011		3,889,953	
Taxes and dues		52,614,357		46,703,487	
Others		18,609,232		16,238,152	
		224,331,341		198,174,584	
	₩	772,910,601	₩	605,441,096	

33. Other operating income (expense)

Other operating income (expense) for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

modelina criteriouri morry.		Year ended		Year ended
	D	December 31, 2021		cember 31, 2020
Other operating income:				
Dividends on financial assets at FVTPL	₩	35,422,785	₩	28,609,890
Dividends on financial assets measured at FVOCI		5,863,430		3,702,494
Dividends from subsidiaries		271,733		286,598
Reversal of other provisions		35,285		11,502,537
Reversal of credit risk adjustments		422,446		572,198
Reversal of deferred day 1 profit or loss adjustments		416,474,361		256,198,821
Others		5,138,879		269,468
		463,628,919		301,142,006
Other operating expenses:				
Provision for other doubtful accounts		(4,874,733)		(4,438,222)
Provision for other provisions		(4,588,030)		-
Provision for credit risk adjustments Amortization of deferred day 1 profit or loss		(6,120,023)		(4,258,899)
adjustments		(297,670,096)		(211,056,258)
Others		(6,463,312)		(1,304,968)
		(319,716,194)		(221,058,347)
	₩	143,912,725	₩	80,083,659

34. Non-operating income (expense)

Non-operating income (expense) for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		ar ended ber 31, 2021	Year ended December 31, 2020		
Non-operating income:					
Gain on disposal property and equipment	₩	462,597	₩	30,238	
Gains on disposition of real-estate investment		4,694,952		1,562,867	
Rental fee income		178,459		340,592	
Share of earnings from investments in associates and joint ventures		83,374,219		51,539,827	
Gain on disposal subsidiaries and associates		38,879,876		22,880,658	
Recovery of impairment losses on intangible assets		-		2,066,000	
Others		26,217,990		3,106,743	
		153,808,093		81,526,925	
Non-operating expense:					
Loss on disposal property and equipment		(562,129)		(61,536)	
Loss on disposal real-estate investment		(444,216)		-	
Loss on disposal intangible assets		(7,095)		(880)	
Share of losses from investments in associates and					
joint ventures		(26,795,736)		(129,989,217)	
Loss on disposal subsidiaries and associates		(26,981,130)		(11,858,357)	
Impairment losses on real-estate investment		(421,884)		-	
Others		(334,593)		(448,467)	
		(55,546,783)		(142,358,457)	
	₩	98,261,310	₩	(60,831,532)	

35. Income taxes

35.1. The major components of income tax expense for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended December 31, 2021			Year ended ecember 31, 2020
Current income taxes	₩	322,774,521	₩	290,449,559
Adjustments of prior year's income tax		(11,189,725)		(2,813,157)
Changes in deferred income taxes due to temporary differences Deferred income tax income from unrecognized deferred income		(43,440,126)		(72,190,541)
tax assets(liabilities)		-		(281,575)
Current and deferred income taxes recognized directly to equity:				
Gain (loss) on valuation of equity securities measured at FVOCI		(7,351,641)		(14,090,554)
Gain (loss) on disposal of equity securities measured at FVOCI		(148,500)		(368)
Gain (loss) on valuation of debt securities measured at FVOCI		(1,814,819)		(43,338)
Credit losses of debt securities measured at FVOCI		(469,565)		(23,376)
Gain (loss) on valuation financial liabilities designated at FVTPL		159,810		(202,979)
Gain (loss) on sales of treasury stock		-		1
Gain on Valuation of Investment Stock Using the Equity Method		(477,943)		477,943
Loss (gain) on effect of foreign currency translation		(1,693,645)		420,553
Remeasurement of the net defined benefit liability(asset)		28,081		330,458
Expense of parents company's stock option		7,899,430		_
Income tax expense	₩	264,275,878	₩	202,032,626

35.2. Details of the relationship between income tax expense and income before income taxes for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	De	Year ended cember 31, 2021		ear ended nber 31, 2020
Income before income taxes	₩	1,047,200,419	₩	767,167,068
Income taxes at statutory tax rate (*)		277,618,115		200,608,944
Adjustments:				
Non-deductible expenses and others		2,678,867		2,132,000
Non-taxable income and others		(8,507,128)		(5,246,260)
Tax system for investment win-win cooperation		9,900,000		14,818,990
Adjustments of prior year's income tax		(11,189,725)		(2,813,157)
Others		(6,224,251)		(7,467,891)
Income tax expense	₩	264,275,878	₩	202,032,626
Effective income tax rate		25.24%		26.33%

^(*) Tax rates applicable, at the aggregate of income tax rate and local tax rate, are 11% for income below \$\psi 200\$ million, 22% for income above \$\psi 200\$ million and below \$\psi 20\$ billion, 24.2% for income above \$\psi 20\$ billion and below \$\psi 300\$ billion and 27.5% for income above \$\psi 300\$ billion

35.3. The details of tax liabilities as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Dece	December 31, 2021 ₩ 14,325		ember 31, 2020
Current income tax assets	₩			-
Deferred income tax assets		208,679,614	-	182,270,631
Income tax assets	₩	208,693,939	₩	182,270,631
Current income tax liabilities	₩	177,291,885	₩	178,775,912
Income tax liabilities	₩	177,291,885	₩	178,775,912

35.4. Temporary differences and deferred income tax assets (liabilities) as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		December 31, 2021	December 31, 2020
Finance lease receivables	₩	(5,216,995)	₩ (4,860,416)
Financial assets measured at FVTPL		975,717	849,550
Gain (loss) on valuation of			
financial liabilities measured at FVTPL		(10,158,795)	18,098,474
Gain (loss) on valuation of			
financial assets measured at FVTPL		300,501	(22,997,607)
Financial instruments designated at FVTPL		(2,421,408)	2,457,313
Gain (loss) on valuation of			
derivatives-combined securities sold		(91,966,757)	(18,482,429)
Gain (loss) on valuation of			
derivatives-combined securities		2,908,142	469,174
Loss on valuation of derivative instruments		18,231,267	(20,069,747)
Deferred loan fee		3,444,640	3,971,167
Deferred day 1 profit or loss		36,119,421	11,711,319
Gain (loss) on foreign transactions		(8,384,816)	(781,201)
Allowance for loan losses		20,104	132,151
Lease assets		(3,867,362)	(3,123,921)
Financial assets measured at FVOCI		(56,615,411)	(46,980,182)
Accrued income		(12,320,932)	(8,626,381)
Accrued expenses		174,897,367	131,715,164
Credit risk-adjusted		(2,270,700)	(3,994,494)
Property and equipment, intangible assets		(7,596,313)	(7,951,848)
Subsidiaries and associates		(995,104)	(12,936,546)
Allowance accounts		18,452,701	16,773,093
Retirement pension premium		(6,343,570)	(5,693,239)
Defined benefit liabilities		6,790,842	6,286,338
Treasury stock		65,811,814	65,811,814
Lease liabilities		8,676,711	7,182,567
Others		33,959,776	27,061,744
		162,430,840	136,021,857
Unrecognized deferred tax liabilities		46,248,774	46,248,774
Deferred Income Taxes Assets	₩	208,679,614	₩ 182,270,631
Deferred income tax assets before offsetting	₩	370,589,003	₩ 292,519,868
Deferred income tax liabilities before offsetting	₩	(161,909,389)	₩ (110,249,237)

35.5. Changes in the temporary differences and deferred income tax assets (liabilities) for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended December 31, 2021						
		Beginning					
		balance (*1)		Changes		nding balance	
Financial lease receivables	₩	(20,076,424)	₩	(1,481,408)	₩	(21,557,832)	
Financial assets measured at FVTPL		3,094,901		459,623		3,554,524	
Gain (loss) on valuation of							
financial liabilities measured at FVTPL		65,932,509		(102,940,868)		(37,008,359)	
Gain (loss) on valuation of							
financial assets measured at FVTPL		(82,848,289)		83,064,198		215,909	
Financial instruments designated at							
FVTPL		8,951,960		(17,773,120)		(8,821,160)	
Gain (loss) on valuation of							
derivatives-combined		(07.004.054)		(007 700 400)		(005 000 700)	
securities sold		(67,331,254)		(267,702,468)		(335,033,722)	
Gain (loss) on valuation of		4 700 405		0.050.004		40,000,000	
derivatives-combined securities		1,709,195		8,950,831		10,660,026	
Gain (loss) on valuation of derivative instruments		(74 007 404)		140,688,405		66,600,984	
Deferred loan fee		(74,087,421) 12,891,082		(641,938)		12,249,144	
Deferred day 1 profit or loss		42,664,185		88,918,406		131,582,591	
Gain (loss) on foreign transactions		(3,992,271)		(26,614,789)		(30,607,060)	
Allowance for loan losses		76,500		(20,014,709)		76,500	
Lease assets		(12,775,865)		(3,204,970)		(15,980,835)	
Withdrawal of sales transaction		(12,770,000)		(0,201,070)		(10,000,000)	
Financial assets measured at FVOCI		(171,205,343)		(34,943,512)		(206,148,855)	
Accrued income		(30,613,718)		(14,152,799)		(44,766,517)	
Accrued expenses		430,409,909		228,971,131		659,381,040	
Credit risk-adjusted		(14,551,892)		6,279,763		(8,272,129)	
Property and equipment,		,				,	
intangible assets		(27,817,137)		(77,780)		(27,894,917)	
Subsidiaries and associates		(53,456,162)		43,824,991		(9,631,171)	
Allowance accounts		61,777,765		6,628,134		68,405,899	
Retirement pension premium		(22,150,600)		(1,987,796)		(24,138,396)	
Defined benefit liabilities		23,920,619		1,919,724		25,840,343	
Treasury stock		250,425,472		-		250,425,472	
Loss from merger		-		-		-	
Lease liabilities		31,241,508		880,674		32,122,182	
Others		98,063,552		34,782,802		132,846,354	
	₩	450,252,781	₩	173,847,234	₩	624,100,015	
Unrecognized deferred tax liabilities (*2)	₩	(175,984,682)	₩	-	₩	(175,984,682)	
Deferred income tax assets(liabilities)	₩	165,239,488	₩	43,440,126	₩	208,679,614	

^(*1) Beginning temporary difference and deferred income taxes have been calculated reflecting the changes in the accounting standards and final income tax return.

^(*2) The deferred income tax liabilities, caused by the temporary difference in shares in Meritz Capital, were not recognized.

35.5. Changes in the temporary differences and deferred income tax assets (liabilities) for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won) (cont'd):

	Year ended December 31, 2020					
	Beginning					
	balance (*1)	Changes	Ending balance			
Financial lease receivables	₩ (25,723,585)	₩ 5,639,222	₩ (20,084,363)			
Financial assets measured at FVTPL	-	3,094,901	3,094,901			
Gain (loss) on valuation of						
financial liabilities measured at FVTPL	(24,199,091)	90,131,600	65,932,509			
Gain (loss) on valuation of	(00.005.000)	44.000.050	(0.4.000.0.40)			
financial assets measured at FVTPL	(98,935,366)	14,903,353	(84,032,013)			
Financial instruments designated at	4 540 040	7 400 440	0.054.000			
FVTPL	1,512,818	7,439,142	8,951,960			
Gain (loss) on valuation of derivatives-combined						
securities sold	40 227 022	(115 650 107)	(67 224 254)			
Gain (loss) on valuation of	48,327,933	(115,659,187)	(67,331,254)			
derivatives-combined securities	(1,161,422)	2,870,617	1,709,195			
Gain (loss) on valuation of	(1,101,422)	2,070,017	1,709,195			
derivative instruments	(39,553,362)	(34,534,059)	(74,087,421)			
Deferred loan fee	25,611,352	(12,720,291)	12,891,061			
Deferred day 1 profit or loss	23,210,399	19,453,786	42,664,185			
Gain (loss) on foreign transactions	(31,130,581)	28,736,701	(2,393,880)			
Allowance for loan losses	710,015	(228,592)	481,423			
Lease assets	(11,130,047)	(1,778,718)	(12,908,765)			
Withdrawal of sales transaction	(817,468)	817,468	-			
Financial assets measured at FVOCI	(112,954,326)	(58,251,017)	(171,205,343)			
Accrued income	(45,712,565)	14,332,410	(31,380,155)			
Accrued expenses	338,722,457	155,796,601	494,519,058			
Credit risk-adjusted	(17,499,142)	2,947,250	(14,551,892)			
Property and equipment,						
intangible assets	(30,487,817)	1,226,338	(29,261,479)			
Subsidiaries and associates	(156,308,876)	102,852,714	(53,456,162)			
Allowance accounts	29,788,272	31,989,493	61,777,765			
Retirement pension premium	(19,088,309)	(2,575,463)	(21,663,772)			
Defined benefit liabilities	20,003,053	3,917,566	23,920,619			
Treasury stock	250,425,472		250,425,472			
Loss from merger	7,676,225	(7,676,225)	-			
Lease liabilities	28,401,828	(2,235,830)	26,165,998			
Others	86,730,653	16,627,439	103,358,092			
	₩ 246,418,520	₩ 267,117,219	₩ 513,535,739			
Unrecognized deferred tax liabilities (*2)	₩ (175,984,682)	₩ -	₩ (175,984,682)			
Deferred income tax assets(liabilities)	₩ 109,798,515	₩ 72,472,116	₩ 182,270,631			

^(*1) Beginning temporary difference and deferred income taxes have been calculated reflecting the changes in the accounting standards and final income tax return.

Deferred income tax assets (liabilities) are measured at the average tax rates that are expected to be applied in the year when the related temporary differences are expected to reverse, based on tax rates (and tax laws) that have been enacted at the reporting date.

^(*2) The deferred income tax liabilities, caused by the temporary difference in shares in Meritz Capital, were not recognized.

36. Earnings per share

The Group presents basic earnings per share attributable to its common stock holders in the statement of comprehensive income. Basic earnings per share amounts are calculated by dividing the net profit for the period attributable to common stock holders of the parent by the weighted average number of common shares outstanding during the period.

36.1. Basic earnings per share amounts for the years ended December 31, 2021 and 2020 are as follows (in Korean won and number of shares):

	Year ended December 31, 2021		Year ended December 31, 2020	
Net income attributable to controlling interests	₩	774,868,761,322	₩	558,266,388,844
Dividends of convertible callable preferred stock		(15,982,559,277)		(20,162,393,778)
Dividends of hybrid bond		(22,139,714,830)		(12,124,590,161)
Net income attributable to the common stock controlling interests	₩	736,746,487,215	₩	525,979,404,905
Weighted average number of common stock outstanding (in shares) (*)	6	613,362,704 shares	6	608,145,239 shares
Basic earnings per share	₩	1,201	₩	865

^(*) Weighted average number of common stock outstanding is calculated by deducting treasury stock from total issued stock.

36.2. Diluted earnings per share amounts for the years ended December 31, 2021 and 2020 are as follows (in Korean won and number of shares):

	Year ended		Year ended	
	December 31, 2021		December 31, 2020	
Net income attributable to controlling common equity	₩	736,746,487,215	₩	525,979,404,905
Redeemable convertible preferred stock dividend		15,982,559,277		20,162,393,778
Dilution gain on controlling common equity (A)	₩	752,729,046,492	₩	546,141,798,683
Weighted average number of ordinary shares outstanding (in shares)		613,362,704 shares	6	08,145,239 shares
Weighted average number of diluted shares_stock options (in shares) (*)		168,482 shares		-
Weighted average number of diluted shares _convertible preferred stock (in shares)		53,188,885 shares		71,420,678 shares
Weighted average number of common shares outstanding considering dilution effect (B) (in shares)		666,720,071 shares		79,565,917 shares
Diluted earnings per share (A/B)	₩	1,129	₩	804

^(*) In the case that average market price of Company exceeds the exercise price of stock option described in Note 26, a dilution effect occurs.

37. Assets and liabilities denominated in foreign currencies

Significant assets and liabilities denominated in foreign currencies as of December 31, 2021 and 2020 are as follows:

	December 31, 2021					
	Currency		nount in foreign urrency in unit		Korean won equivalent (in thousands)	
Assets in foreign currencies:			000 000 040		100 010 101	
Cash and due from banks	USD	\$	393,260,313	₩	466,210,101	
	EUR	€	68,712,829		92,235,978	
	HKD	\$	1,152,902,387		175,275,750	
	JPY GBP	¥	2,666,092,983 33,499		27,467,156 53,607	
	CNH	¥	7,116,096		1,325,444	
	AUD	\$	127,805		109,770	
	CAD	\$ \$ \$	1,252,623		1,165,703	
	SGD		264,673		232,155	
	TRY	ŧ	28,571		2,566	
Financial coacts massured at FV/TDI	VND USD	<u>₫</u>	170,697,117 963,453,119		8,893 1,142,173,672	
Financial assets measured at FVTPL		\$				
	EUR	€	122,035,538		163,813,185	
	HKD VND	\$ <u>đ</u>	3,975,922 382,284,000,000		604,459 19,916,996	
	CNH	¥	252,751,506		47,077,495	
	AUD	\$	94,109,260		80,829,502	
Loans	USD	\$	985,009,095		1,167,728,283	
	AUD	\$	34,823,116		29,909,226	
	HKD	\$	1,026,124,595		156,001,722	
044	GBP	\$ \$ \$ \$ £ \$	15,042,273		24,071,398	
Other assets	USD		484,610,945		574,506,276	
	EUR	€	864,703		1,160,726	
	HKD CNH	\$ ¥	26,273,752		3,994,399	
	CIVIT	+	30,238,542	₩	5,632,231 4,181,506,693	
Liabilities in foreign currency:					4,101,300,033	
Deposits	USD	\$	233,682,925	₩	277,031,107	
'	EUR		75,304,314		101,083,993	
	CNH	¥	4,979,587		927,498	
	HKD		5,160,444		784,542	
	JPY	\$ ¥ \$ \$	29,550,180		304,438	
	AUD	\$	3,080		2,645	
	CAD VND	Þ <u>đ</u>	15,001 170,697,117		13,960 8,893	
Financial liabilities at measured at FVTPL	USD		225,506,764		267,338,269	
	HKD	\$ \$ \$	137,832,217		20,954,632	
Borrowings	USD	\$	1,453,399,713		1,723,005,359	
	EUR	€	96,162,526		129,082,805	
Other liabilities	USD	\$	290,583,148		344,486,322	
	EUR	€	81,274		109,097	
	HKD	\$	21,421,392		3,256,694	
	JPY	¥	2,387,500	₩	24,597	
				VV	2,868,414,851	

37. Assets and liabilities denominated in foreign currencies (cont'd)

	December 31, 2020					
Accepte in foreign gurranging	Currency		mount in foreign currency in unit		Korean won equivalent (in thousands)	
Assets in foreign currencies: Cash and due from banks	USD	\$	150,316,378	₩	163,544,221	
		€	53,403,950		71,467,302	
	EUR HKD	\$	424,375,078		59,561,042	
	JPY	¥	1,630,150,210		17,186,022	
	GBP	£	24,450		36,245	
	CNH	¥	21,237,410		3,545,798	
	AUD	\$	111,725		93,465	
	CAD	\$ \$	409,042		349,036	
	SGD		151,672		124,708	
	TRY	ŧ	28,571		4,210	
Financial assets measured at FVTPL	VND USD	<u>₫</u> ¢	3,512,528,000 922,835,071		165,440 1,004,044,557	
Filialicial assets illeasuled at FV IFL		\$				
	EUR	€	118,197,936		158,177,205	
	JPY HKD	¥ \$	187,904,000 30,226,188		1,980,997 4,242,245	
	VND	⊅	419,400,000,000		19,753,740	
	CNH	¥	2,087,400		348,512	
	AUD	\$	93,714,053		78,397,428	
Loans	USD	\$	897,378,463		976,347,767	
	EUR	€	87,135,214		116,607,829	
	AUD	\$	34,823,116		29,131,626	
	HKD	\$ \$	1,414,464,363		198,520,073	
	GBP	£	42,241,978		62,619,509	
	NZD	\$	62,661,089		49,154,491	
Other assets	USD	\$	421,964,975		459,097,893	
	EUR	€	229,437		307,042	
	HKD	\$	11,078,688		1,554,894	
	JPY	¥	26,058,666	₩	274,726	
Liabilities in foreign currency:					3,476,638,023	
Deposits	USD	\$	316,923,702	₩	344,812,988	
•	EUR		123,350,744		165,072,899	
	CNH	¥	4,730,709		789,839	
	HKD	\$	7,002,123		982,748	
	JPY	¥	147,541,128		1,555,467	
	AUD	\$ \$	2		2	
	SGD	\$	24,946		20,511	
	CAD	\$	177,155		151,166	
	VND	₫	4,616,000		217	
Financial liabilities at measured at FVTPL	USD	\$	450,180,745		489,796,650	
Borrowings	USD	\$	941,172,581		1,023,995,768	
	EUR	€	101,699,190		136,097,924	
Other liabilities	USD	\$	380,401,636		413,876,980	
	EUR	€	445		596	
	HKD	\$	5,723,160		803,246	
	JPY	¥	54,742,735	13.7	577,131	
				₩	2,578,534,132	

38. Restricted balances in due from banks and pledged assets

38.1. Restricted balances in due from banks as of December 31, 2021 and 2020 are summarized as follows (in thousands of Korean won):

	Counterparty	Other information	December 31, 2021	December 31, 2020
Cash and Deposits:				
Restricted due from financial institutions	KB Bank and others	Deposits for checking accounts	₩ 78,000	₩ 86,000
Fixed deposits	Woori Bank and others	Pledged for settlement and loan transactions	302,000,000	153,000,000
Certificate of deposits	KB Bank and others	Pledged for loan transactions	500,745,468	-
Ordinary deposits	Woori Bank and others	Seizure related to litigation	2,632,729	-
Reserve for claims of customers' deposits	Korea Securities Finance Corporation ("KSFC")	(*)	145,203,410	237,000,000
Margin on securities market	KRX		79,000,000	43,100,000
Guarantee deposits for loan transaction	Korea Securities Depository and others		10,000	174,731,900
Guarantee deposits for trading futures and options (brokerage) Financial asset at fair value through profit or loss:	KRX		220,919,084	150,635,444
Reserve for claims of customers' deposits(Trust)	KSFC	(*)	1,207,894,688	994,104,732
Collective fund for default loss	KRX		36,231,462	27,223,780
			₩ 2,494,714,841	₩ 1,779,881,856

^(*) Pursuant to the *Financial Investment Services and Capital Markets Act*, the Group is required to place a deposit on a daily basis in Korea Securities Finance Corporation ("KSFC") as a reserve against customers' deposits for the trading of stocks, derivatives and for other purposes. These deposits should exceed the amount which is calculated by deducting cash commission guarantee from total customers' deposit.

38.2. Details of securities pledged as collateral for operating activities including derivative transactions, loan transactions and borrowings as of the reporting date are as follows (in thousands of Korean won):

		December 31, 2021	
	Description of		
Pledged to	pledged asset	Pledged amount(*1)	Pledged for
KRX	Bonds	₩ 629,523,018	Derivative transaction
KSD & KSFC	Cash, Deposits, ETF beneficiary certificate, Stocks, CP, Bonds	10,168,909,612	Lending and borrowing transactions
KSFC and others	Bonds	16,631,291,058	Bonds under repurchase agreements(*2)
Woori bank RREEF Special Invest GmbH	Deposits, Bonds Bonds	24,675,231	Payment fund Withholdings
•		₩ 27,454,398,919	· ·
		December 31, 2020)
	Description of		_
Pledged to	pledged asset	Pledged amount(*1)	Pledged for
KRX	Bonds	₩ 607,254,557	Derivative transaction
KSD & KSFC	Cash, Deposits, ETF beneficiary certificate, Stocks, CP, Bonds	6,155,167,293	Lending and borrowing transactions
KSFC and others	Bonds	13,396,722,111	Bonds under repurchase agreements(*2)
Woori bank	Deposits, Bonds	26,091,639	Payment fund
RREEF Special Invest GmbH	Bonds	1,885,465	Withholdings
		₩ 20,187,121,065	

^(*1) The amount calculated from the closing price of collateral or based on External Credit Assessment Institution's valuation. The collateral is included in borrowing securities.

38.3. As of the end of the reporting period, the fair value of collateral that can be sold and re-secured regardless of default is as follows (in thousands of Korean won):

	Decemb	per 31, 2021	December 31, 2020			
		Fair value of collateral		Fair value of collateral		
	Fair value of collateral held	sold or re-provided as collateral	Fair value of collateral held	sold or re-provided as collateral		
Securities	₩ 2,379,315,224	₩ 1,614,999,567	₩1,850,866,194	₩ 512,019,037		

^(*2) A Repurchase agreement is a transaction in which a consolidated entity sells securities to a customer on the condition that it repurchases the sum of the amount of interest, such as interest, and the amount of the original sale after a certain period of time. As the elimination condition for the transfer of financial assets is not met, the related assets are recognized continuously and the amount of the sale is recognized as a liability. The liability is amounted to \$\psi\$ 15,271,970 million and \$\psi\$ 13,653,221 million as of December 31, 2021 and 2020, respectively

39. Guarantees and commitments

39.1. The Group has the following agreements with several banks as of December 31, 2021 (in thousands of Korean won, USD):

Agreement	Bank	Currency	Maximum limit	Maturity date
Intraday overdraft	Woori Bank	KRW	50,000,000	2022.09.02
Intraday overdraft	Hana Bank	KRW	10,000,000	2022.10.28
Intraday overdraft	Shinhan Bank	KRW	20,000,000	2022.09.05
Intraday overdraft	KB Bank	KRW	5,000,000	2022.11.18
Overdraft	Daegu Bank	KRW	5,000,000	2022.06.29
Loans on limit	Woori Bank	KRW	30,000,000	2022.09.02
Loans on limit	NH Bank	KRW	50,000,000	2022.03.04
Loans on limit	Daegu Bank	KRW	20,000,000	2022.12.18
Exhortation guarantee	Meritz Financial Group	KRW	800,000,000	-
Performance payment	Seoul guarantee	KRW	10,383,442	Individual
guarantee	Insurance			contract
Usance letter of credit	The Korea	USD	10,000,000	2022.06.09
	Development Bank			
Commitment with limit	China Everbright Bank	KRW	20,000,000	2022.02.18
Commitment with limit	Industrial and	KRW	20,000,000	2022.10.19
	Commercial Bank of			
	China			
Commitment with limit	China Bank	KRW	20,000,000	2022.01.04
Commitment with limit	Woori Bank	KRW	30,000,000	2022.05.04
Commitment with limit	The Korea	KRW	80,000,000	2022.08.07
	Development Bank			
Commitment with limit	Shinhan Bank	KRW	10,000,000	2022.08.12
Commitment with limit	Mirae Asset Bank	KRW	30,000,000	2024.11.29
Note discounted	KSFC	KRW	200,000,000	2024.10.31
Note discounted	KSFC	-	Within the	2024.10.31
			Subscription money	
Agency operating funds	KSFC	KRW	200,000,000	2022.03.02
Agency operating funds	KSFC	-	Within the	2022.03.02
(trust)			scope of trust funds	
Financial capital distribution	KSFC	KRW	400,000,000	2022.07.01
Mortgage financing	KSFC	KRW	700,000,000	2022.04.30
Mortgage financing	KSFC	KRW	130,000,000	2022.08.30
Call half the day	KSFC	KRW	200,000,000	2022.03.03
Financial bond dealer	KSFC	KRW	500,000,000	2022.03.31
FX Swap Committed	JP Morgan Chase	USD	50,000,000	2022.12.22
contract	Bank, Ň.A., Seoul			
	Branch			

39.2. Lawsuit

The Group is involved in 30 lawsuits (Plaintiff: 10 cases, defendant: 20 cases) with the total claim amounting \$76,933 million. The Group provided provisions estimated from previous experiences in similar lawsuits (Balance of provisions: \$3,964 million) as of December 31, 2021 (Note 20).

39.3. The Group's purchase agreements as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	December 31, 2021				
	N	//aximum limit	Balance		
Securitized securities purchase commitment (*1,4)	₩	5,000,000	₩	5,000,000	
Payment guarantee (*4)		19,271,997		19,271,997	
Conditional loan commitment(*4)		-		-	
Conditional commitments for acceptance (*4)		34,215,254		34,215,254	
Loans on limit (*4)		5,405,422,267		2,784,276,739	
Loan commitment (*2,4)		254,282,207		231,970,707	
		5,718,191,725		3,074,734,697	
Duplicate commitment amount (*3)		22,311,500		22,311,500	
	₩	5,695,880,225	₩	3,052,423,197	
		Decemb	er 31	, 2020	
	N	Maximum limit		Balance	
Securitized securities purchase commitment (*1,4)	₩	-	₩	-	
Payment guarantee (*4)		-		-	
Conditional loan commitment(*4)		125,000,000		125,000,000	
Conditional commitments for acceptance (*4)		-		-	
Loans on limit (*4)		5,123,432,876		2,690,679,444	
Loan commitment (*2,4)		354,650,000	-	354,650,000	
		5,603,082,876		3,170,329,444	
Duplicate commitment amount (*3)		-			
	₩	5,603,082,876	₩	3,170,329,444	

- (*1) The Group purchased residual securitized securities that are issued but not sold through liquidity-providing commitments. Liquidity-providing commitments can be exercised when the credit ratings of underlying assets of securitized securities and financial institutions are not below the required level.
- (*2) The amount is the sum of the contractual amounts of secured loans executed by the Group according to mortgage loan commitments as of December 31, 2021 and 2020.
- (*3) The amount represents two or more commitments being provided to the same counterparty.
- (*4) As of December 31, 2021, the details of the consolidated subsidiaries are as follows:

Details of the Group's agreements as of December 31, 2021 are as follows (in thousands of Korean won):

	Opponent	Ma	ximum limit		Balance
Securitized securities purchased agreement Payment guarantee Conditional acquisition	Fireblood 1st Co., Ltd Aareal Capital Corporation	₩	5,000,000 19,271,997	₩	5,000,000 19,271,997
arrangement ·	Green Energy Fund		5,000,000		5,000,000
	DSPE Private Equity Fund I		4,000,000		4,000,000
	Sprott Korea Asset Management		25,215,254		25,215,254

Korean won,	Opponent	Maximum limit	Balance
Loans on limit	Gyeongju D&C	₩ 108,000,000	
	Golden Summit Co.,Ltd	27,500,000	19,800,000
	DaewonPlus rnc 4th	28,500,000	14,550,000
	THELANDINBEST	39,900,000	25,680,000
	Mento D&C	17,000,000	3,300,000
	VEGA	50,000,000	17,300,000
	SEWON	600,000	600,000
	WOOWON	400,000	400,000
	Incheon Global City	58,700,000	58,700,000
	7th Avenue Nashville Hotel Owner LLC	222,507,900	17,921,194
	DB US PRIVATE LOAN FUND 1	33,184,200	12,757,598
	GAWOO HOLDINGS	42,600,000	39,000,000
	Galmae PFV Co., Ltd.	75,000,000	31,300,000
	Gapeul Co.,Ltd	28,000,000	10,500,000
	Geomyeong Construction	26,800,000	7,740,000
	Gun Young Construction Co.,Ltd	19,140,000	6,450,000
	Kyung Bo Development Co.,Ltd	24,000,000	18,500,000
	GoldPara	24,000,000	18,600,000
	Ground D Holdings Co., Ltd.	19,500,000	5,700,000
	Geumgok Housing Union	50,000,000	5,000,000
	Gimhae Daedong Smart Logistics Corp	280,000	280,000
	NARAE HOLDINGS	42,000,000	30,120,000
	DAE MYOUNG GAEBAL	27,000,000	18,000,000
	Daeshin Construction Co.,Ltd, kyeyangencplus	28,600,000	9,600,000
	DAESHIN DEVELOPMENT	2,400,000	2,400,000
	DAESHIN PLUS	45,600,000	28,640,000
	THE PEOPLE	17,000,000	12,100,000
	THE JIEUM DEVELOPMENT	27,000,000	22,800,000
	Dongraehotel	35,400,000	8,200,000
	Raum Urban Development	39,900,000	20,800,000
	RED SEA PLANNING	30,000,000	21,900,000
	REAYAN D&C CO.,LTD	19,500,000	19,500,000
	ROMERSPARK	26,200,000	13,050,000
	Lead industry development co.ltd	20,000,000	1,200,000
	Leadon industry development co.ltd	75,000,000	66,000,000
	The LEADCORP, Inc.	25,000,000	5,000,000
	LINK CITY PFV INC.	800,000	800,000
	Makok MICE PFV	200,000,000	10,100,000
	Seongnam Godeung Jeil Pungkyeongchae Fund No.1	800,000	800,000
	MIGANG A&C	29,800,000	29,800,000
	Mirae Development Co., Ltd	24,700,000	15,000,000
	Bestone Premium	150,000,000	122,062,500
	Bric Hwaseong Logistics Center Co., Ltd	40,200,000	29,400,000
	VC Babylon Co., Ltd.	25,000,000	5,768,683
	Blackstone Co., Ltd	25,200,000	14,700,000

norean wo	on) (contrd): Opponent	Maximum limit	Balance	
Loone on limit	Blueming	₩ 30,000,000 ₩	20,800,000	
Loans on limit	B&M Asset Management	704,000	204,000	
	BA PAJU DEVELOPMENT 2nd	33,000,000	25,800,000	
	Geoje Bigislands PFV	21,120,000	15,840,000	
	SAI Marketing Co., Ltd.	63,200,000	14,860,000	
	Samwon Development	23,200,000	1,020,000	
	SEHA FARM STORAGE CO.,LTD	24,000,000	17,800,000	
	Central City	30,000,000	30,000,000	
	Song San Development Co., Ltd	23,000,000	8,200,000	
	SONGSANDNC co.,Ltd	39,600,000	840,000	
	Suwongalleria PFV	29,000,000	5,660,000	
	-			
	Smartkiwoomhubcity corp City Field Co., Ltd.	23,000,000	10,300,000	
	•	30,000,000	3,000,000	
	Sinseo AMC	75,000,000	12,041,000	
	CW Housing	33,500,000	20,000,000	
	IVY Development. Co.,Ltd	23,500,000	17,400,000	
	IN Construction Co., Ltd	22,500,000	18,100,000	
	INDC Co.	2,000,000	2,000,000	
	IMDC	19,800,000	14,400,000	
	YANGJU PFV	73,150,000	46,725,000	
	Asstinpp Partners Co., Ltd	27,900,000	13,800,000	
	SDB	23,000,000	12,000,000	
	SNHC Co., Ltd	25,600,000	25,600,000	
	AGRAPH Co., Ltd	25,000,000	4,700,000	
	HG Development Co., Ltd.	39,100,000	18,400,000	
	AT Co. Ltd.	53,100,000	3,340,000	
	Enterprise DY Co., Ltd	18,600,000	18,600,000	
	LOKDNC	27,000,000	16,800,000	
	OST Partners, Co., Ltd.	124,600,000	64,900,000	
	Oncheon Development Co., Ltd	34,600,000	27,900,000	
	Y&C Holdings	25,000,000	8,400,000	
	YJ	57,300,000	35,100,000	
	WUMIN	35,000,000	30,060,000	
	Woojung Development	63,000,000	49,200,000	
	Withus	24,800,000	18,740,000	
	Withworking	26,300,000	9,361,200	
	The first universe	6,666,667	6,666,667	
	Eun-Pyung, Complex Development. Ltd.	55,000,000	55,000,000	
	Urban Development Co., Ltd.	23,400,000	9,900,000	
	IAN DNC Company	21,800,000	16,080,000	
	Ian Industrial Development	59,400,000	59,400,000	
	LAH	17,000,000	17,000,000	
	EQ Green 2nd Limited	2,500,000	2,500,000	
	Intrus Value Add Private Real Estate Investment Trust	21,100,000	8,240,000	
	2nd			
	ILSEUNG CO.,LTD	20,000,000	7,000,000	
	JASEOUNG	24,000,000	17,720,000	

- 10. 34 11	rean won) (contrd): Opponent		ximum limit		Balance
Loans on limit	JUNGWOONG C&D Corporation	₩	49,000,000	₩	49,000,000
Lourio ori iiriii	Genesis management, Inc.	• • • • • • • • • • • • • • • • • • • •	350,000		253,470
	JWH Company		21,000,000		18,000,000
	Jade D&C, Co., Ltd.		23,300,000		11,580,000
	JS Partners		64,200,000		57,420,000
	geunhwae&c		24,500,000		24,500,000
	DRCND		24,960,000		17,540,000
	SEAUM.Co.Ltd		92,920,000		10,380,000
	DAON CONSTRUCTION CO.,LTD.		26,000,000		11,950,000
	Daelim Holdings		21,600,000		800,000
	TheLoren		39,900,000		25,680,000
	DEO PURUN SONGDO		20,500,000		8,800,000
	DUYEONGELEEAENDI CO., LTD.		16,800,000		16,000,000
	DO Development		39,000,000		25,300,000
	Logifield		48,000,000		48,000,000
	BUM UNG		19,220,000		6,200,000
	Bene mine		27,000,000		18,000,000
	Sentralland		25,000,000		7,500,000
	Seung ho		19,140,000		6,800,000
	AMI CO.,LTD.		21,000,000		11,520,000
	ALASK		31,800,000		18,200,000
	SCI		140,000,000		110,000,000
	SG Development		16,000,000		1,600,000
	HONESTY PROMISE DEVELOPMENT		32,700,000		25,980,000
	MNSPrime		52,800,000		17,220,000
	YOOLIMI&D		30,400,000		5,800,000
	cheong Sol Development Company		19,500,000		1,100,000
	Tigerdnc		29,000,000		13,800,000
	TRC2 Co.		63,000,000		17,597,000
	PART A		21,600,000		2,580,000
	MJ development		49,200,000		39,680,000
	YOOLIMDNC		11,600,000		11,600,000
	JS CITY DEVELOPMENT CO.,LTD.		45,080,000		19,220,000
	CD101		6,134,000		5,125,000
	CHAUNGLA CO., LTD		6,500,000		6,500,000
	Kabod Co., Ltd		16,260,000		8,563,000
	KR Seocho Co., Ltd.		500,000		500,000
	KN development		20,000,000		7,000,000
	KJ Sarang		77,200,000		69,300,000
	Korea Inpartners		9,230,000		9,230,000
	Koaland D&C		24,200,000		17,340,000
	KLAYTON Co., Ltd		51,000,000		45,000,000
	Tiger Alternative Investment Trust No. 31 by Nonghyup				
	Bank as trustee		7,624,000		6,978,682
	Taeseung Industrial Development Co., Ltd		13,000,000		13,000,000
	TAE WOO Corporation, Shinmoon 1 housing development project		48,000,000		24,000,000
	1 J ==		-,,000		.,,

Loans on limit TAE WOONG HOLDINGS CO.,LTD ₩ 22,400,000 ₩ 15,600,000 Todam Construction, Co, Ltd 55,000,000 4,000,000 Paramark Ventures Co.,Ltd 9,320,000 9,320,000 PineStreet Asia Private Placement Special Asset Investment Trust No. 1-2 1,731,500 1,546,700,000 PANCITY Co.,Ltd 27,600,000 16,150,000 FERAZ Realty Co.,Ltd. 67,200,000 11,970,000 P&D United Co.,Ltd 69,300,000 34,500,000 PFV Chungdam 502 22,000,000 3,152,000 PFV Chungdam 502 26,000,000 2,420,000 Hankyung DNC 39,000,000 3,000,000 KOFAD 29,000,000 1,600,000 Haniyung DNC 39,000,000 3,000,000 KOFAD 29,000,000 1,500,000 HAUNYOUNG HOLDINGS CO.,LTD 25,000,000 11,500,000 HEUNGDEOK 23,000,000 2,700,000 TOMMARY 14,032,300 2,700,000 TOMMARY 14,032,300 2,700,000 Mastern Private Investment Trust 102th 5,450,000 5,450,000 <th></th> <th>Opponent</th> <th></th> <th colspan="2">Maximum limit</th> <th>Balance</th>		Opponent		Maximum limit		Balance
Paramark Ventures Co., Ltd 9,320,000 9,320,000 PineStreet Asia Private Placement Special Asset Investment Trust No. 1-2 1,731,500 1,364,745 PANCITY Co., Ltd 27,600,000 16,150,000 First M&D 39,000,000 27,000,000 FERAZ Realty Co., Ltd. 67,200,000 11,970,000 4bros 69,300,000 34,500,000 PFV Chungdam 502 22,000,000 34,500,000 PFV Chungdam 502 22,000,000 3,152,000 19aram c&d 32,000,000 2,805,000 19aram c&d 32,000,000 32,000,000 34,500,000 4aejin Asset Management 39,000,000 30,000,000 46,000,000	Loans on limit	TAE WOONG HOLDINGS CO.,LTD	₩	22,400,000	₩	15,600,000
PineStreet Asia Private Placement Special Asset Investment Trust No. 1-2 1,731,500 1,364,745 PANCITY Co., Ltd 27,600,000 27,000,000 FIRST M&D 39,000,000 27,000,000 FERAZ Realty Co., Ltd. 67,200,000 11,970,000 4bros 69,300,000 34,500,000 P&D United Co., Ltd 60,600,000 34,500,000 PFV Chungdam 502 22,000,000 2,805,000 19aram c&d 32,000,000 24,200,000 32,000,0		Todam Construction. Co, Ltd		55,000,000		4,000,000
Investment Trust No. 1-2				9,320,000		9,320,000
PANCITY Co., Ltd 27,600,000 16,150,000 First M&D 39,000,000 27,000,000 FERAZ Realty Co., Ltd. 67,200,000 11,970,000 4bros 69,300,000 13,700,000 P&D United Co., Ltd 60,600,000 34,500,000 PFV Chungdam 502 22,000,000 3,152,000 PFV Chungdam 522 26,000,000 2,805,000 Igaram c&d 32,000,000 3,000,000 KOFAD 29,000,000 1,600,000 Hankyung DNC 39,000,000 3,000,000 KOFAD 29,000,000 1,600,000 Haejin Asset Management 10,000,000 5,700,000 HEUNGDEOK 23,000,000 20,600,000 HEUNGDEOK 23,000,000 20,600,000 THE PARTNERS 7,019,564 7,019,564 Commitment etc. The CITY 14,032,300 14,032,300 THE PARTNERS 7,019,564 7,019,564 DONGIL CONSTRUCTION LTD 296,100 54,450,000 Mastern Private Investment Trust 102th 54,450,000 55,688,500				1 721 500		1 264 745
First M&D 39,000,000 27,000,000 FERAZ Realty Co.,Ltd. 67,200,000 11,970,000 4bros 69,300,000 33,700,000 P&D United Co., Ltd 60,600,000 34,500,000 PFV Chungdam 502 22,000,000 3,152,000 PFV Chungdam 522 26,000,000 2,805,000 Igaram c&d 32,000,000 30,000,000 KOFAD 29,000,000 3,600,000 Hankyung DNC 39,000,000 3,600,000 KOFAD 29,000,000 1,600,000 Haniyeo Construction 48,800,000 8,000,000 Haejin Asset Management 10,000,000 5,700,000 HYUNYOUNG HOLDINGS CO.,LTD 25,000,000 11,500,000 HEUNGDEOK 23,000,000 20,600,000 THE PARTNERS 7,019,564 7,019,564 DONGIL CONSTRUCTION LTD 296,100 296,100 Mastern Private Investment Trust 102th 54,450,000 54,450,000 Sacheon IC Urban Development Co., Ltd 78,000,000 34,270,000 Alpha Development Co., Ltd 71,825,000 34,270,000 Alpha Development Co., Ltd 17,825,000 37,825,000 YULHA UNION 30,889,243 30,889,243 254,282,207 231,970,707						
FERAZ Realty Co.,Ltd.						
Abros 69,300,000 13,700,000 P&D United Co., Ltd 60,600,000 34,500,000 PFV Chungdam 502 22,000,000 3,152,000 PFV Chungdam 522 26,000,000 2,805,000 1,600,000 2,805,000 1,600,000 2,805,000 2,805,000 1,600,000 2,805,000 1,600,000 2,805,000 1,600,000 2,805,000 1,600,000 1,						
P&D United Co., Ltd 60,600,000 34,500,000 PFV Chungdam 502 22,000,000 3,152,000 PFV Chungdam 522 26,000,000 2,805,000 lgaram c&d 32,000,000 30,000,000 KOFAD 29,000,000 1,600,000 Hanryeo Construction 48,800,000 48,800,000 Haejin Asset Management 10,000,000 5,700,000 HYUNYOUNG HOLDINGS CO.,LTD 25,000,000 11,500,000 HEUNGDEOK 23,000,000 20,600,000 1,600,000 HEUNGDEOK 23,000,000 20,600,000 1,500,0		•				
PFV Chungdam 502						
PFV Chungdam 522 26,000,000 2,805,000 Igaram c&d 32,000,000 2,420,000 Hankyung DNC 39,000,000 30,000,000 KOFAD 29,000,000 1,600,000 Hanryeo Construction 48,800,000 8,000,000 Haejin Asset Management 10,000,000 5,700,000 HYUNYOUNG HOLDINGS CO.,LTD 25,000,000 11,500,000 HEUNGDEOK 23,000,000 20,600,000 THE PARTNERS 7,019,564 7,019,564 DONGIL CONSTRUCTION LTD 296,100 296,100 Mastern Private Investment Trust 102th 54,450,000 55,688,500 Sacheon IC Urban Development Co., Ltd 78,000,000 55,688,500 SAMGYE GAMBUN UNION 34,270,000 34,270,000 Alpha Development Co., Ltd 17,825,000 17,500,000 Woori Bank 17,500,000 17,500,000 YULHA UNION 30,889,243 30,889,243						
Igaram c&d 32,000,000 2,420,000 Hankyung DNC 39,000,000 30,000,000 KOFAD 29,000,000 1,600,000 Hanyeo Construction 48,800,000 8,000,000 Haejin Asset Management 10,000,000 5,700,000 HYUNYOUNG HOLDINGS CO.,LTD 25,000,000 11,500,000 EUROPEO 23,000,000 20,600,000 11,500,000 20,600,000 2		-				
Hankyung DNC 39,000,000 30,000,000 KOFAD 29,000,000 1,600,000 Hanryeo Construction 48,800,000 8,000,000 Haejin Asset Management 10,000,000 5,700,000 HYUNYOUNG HOLDINGS CO.,LTD 25,000,000 20,600,000 11,500,000 20,600,00		-				
KOFAD 29,000,000 1,600,000 Hanryeo Construction 48,800,000 8,000,000 Haejin Asset Management 10,000,000 5,700,000 HYUNYOUNG HOLDINGS CO.,LTD 25,000,000 11,500,000 HEUNGDEOK 23,000,000 20,600,000 Loan 5,405,422,267 2,784,276,739 Loan The CITY 14,032,300 14,032,300 THE PARTNERS 7,019,564 7,019,564 DONGIL CONSTRUCTION LTD 296,100 296,100 Mastern Private Investment Trust 102th 54,450,000 54,450,000 Sacheon IC Urban Development Co., Ltd 78,000,000 55,688,500 SAMGYE GAMBUN UNION 34,270,000 34,270,000 Alpha Development Co., Ltd 17,825,000 17,825,000 Woori Bank 17,500,000 17,500,000 YULHA UNION 30,889,243 30,889,243		_				
Hanryeo Construction 48,800,000 8,000,000 Haejin Asset Management 10,000,000 5,700,000 HYUNYOUNG HOLDINGS CO.,LTD 25,000,000 11,500,000 HEUNGDEOK 23,000,000 20,600,000 5,405,422,267 2,784,276,739 Loan commitment etc. The CITY 14,032,300 14,032,300 THE PARTNERS 7,019,564 7,019,564 7,019,564 DONGIL CONSTRUCTION LTD 296,100 296,100 Mastern Private Investment Trust 102th 54,450,000 54,450,000 Sacheon IC Urban Development Co., Ltd 78,000,000 55,688,500 SAMGYE GAMBUN UNION 34,270,000 34,270,000 Alpha Development Co., Ltd 17,825,000 17,825,000 Woori Bank 17,500,000 17,500,000 YULHA UNION 30,889,243 30,889,243						
Haejin Asset Management 10,000,000 5,700,000 HYUNYOUNG HOLDINGS CO.,LTD 25,000,000 11,500,000 20,600,000 1,500,000 20,600,000 20						
HYUNYOUNG HOLDINGS CO.,LTD HEUNGDEOK 25,000,000 20,600,000 5,405,422,267 2,784,276,739 Loan commitment etc. The CITY THE PARTNERS T,019,564 DONGIL CONSTRUCTION LTD Mastern Private Investment Trust 102th Sacheon IC Urban Development Co., Ltd SAMGYE GAMBUN UNION Alpha Development Co., Ltd Woori Bank YULHA UNION 10,500,000 11,500,000		•				
HEUNGDEOK 23,000,000 20,6		,				
Loan commitment etc. The CITY 14,032,300 14,032,300 14,032,300 THE PARTNERS 7,019,564 7,019,564 DONGIL CONSTRUCTION LTD 296,100 Mastern Private Investment Trust 102th 54,450,000 54,450,000 Sacheon IC Urban Development Co., Ltd 78,000,000 55,688,500 SAMGYE GAMBUN UNION 34,270,000 417,825,000 Woori Bank 17,500,000 17,500,000 YULHA UNION 30,889,243 254,282,207 231,970,707						
Loan commitment etc. The CITY 14,032,300 14,032,300 THE PARTNERS 7,019,564 7,019,564 DONGIL CONSTRUCTION LTD 296,100 296,100 Mastern Private Investment Trust 102th 54,450,000 54,450,000 Sacheon IC Urban Development Co., Ltd 78,000,000 55,688,500 SAMGYE GAMBUN UNION 34,270,000 34,270,000 Alpha Development Co., Ltd 17,825,000 17,825,000 Woori Bank 17,500,000 17,500,000 YULHA UNION 30,889,243 30,889,243 254,282,207 231,970,707		HEUNGDEOK				
commitment etc. The CITY 14,032,300 14,032,300 THE PARTNERS 7,019,564 7,019,564 7,019,564 DONGIL CONSTRUCTION LTD 296,100 296,100 Mastern Private Investment Trust 102th 54,450,000 54,450,000 Sacheon IC Urban Development Co., Ltd 78,000,000 55,688,500 SAMGYE GAMBUN UNION 34,270,000 34,270,000 Alpha Development Co., Ltd 17,825,000 17,825,000 Woori Bank 17,500,000 17,500,000 YULHA UNION 30,889,243 30,889,243 254,282,207 231,970,707	1			5,405,422,267		2,784,276,739
DONGIL CONSTRUCTION LTD 296,100 296,100 Mastern Private Investment Trust 102th 54,450,000 54,450,000 Sacheon IC Urban Development Co., Ltd 78,000,000 55,688,500 SAMGYE GAMBUN UNION 34,270,000 34,270,000 Alpha Development Co., Ltd 17,825,000 17,825,000 Woori Bank 17,500,000 17,500,000 YULHA UNION 30,889,243 30,889,243 254,282,207 231,970,707		The CITY		14,032,300		14,032,300
Mastern Private Investment Trust 102th 54,450,000 54,450,000 Sacheon IC Urban Development Co., Ltd 78,000,000 55,688,500 SAMGYE GAMBUN UNION 34,270,000 34,270,000 Alpha Development Co., Ltd 17,825,000 17,825,000 Woori Bank 17,500,000 17,500,000 YULHA UNION 30,889,243 30,889,243 254,282,207 231,970,707		THE PARTNERS		7,019,564		7,019,564
Sacheon IC Urban Development Co., Ltd 78,000,000 55,688,500 SAMGYE GAMBUN UNION 34,270,000 34,270,000 Alpha Development Co., Ltd 17,825,000 17,825,000 Woori Bank 17,500,000 17,500,000 YULHA UNION 30,889,243 30,889,243 254,282,207 231,970,707		DONGIL CONSTRUCTION LTD		296,100		296,100
SAMGYE GAMBUN UNION 34,270,000 34,270,000 Alpha Development Co., Ltd 17,825,000 17,825,000 Woori Bank 17,500,000 17,500,000 YULHA UNION 30,889,243 30,889,243 254,282,207 231,970,707		Mastern Private Investment Trust 102th		54,450,000		54,450,000
Alpha Development Co., Ltd 17,825,000 17,825,000 Woori Bank 17,500,000 17,500,000 YULHA UNION 30,889,243 30,889,243 254,282,207 231,970,707		Sacheon IC Urban Development Co., Ltd		78,000,000		55,688,500
Woori Bank 17,500,000 17,500,000 YULHA UNION 30,889,243 30,889,243 254,282,207 231,970,707		SAMGYE GAMBUN UNION		34,270,000		34,270,000
Woori Bank 17,500,000 17,500,000 YULHA UNION 30,889,243 30,889,243 254,282,207 231,970,707		Alpha Development Co., Ltd		17,825,000		17,825,000
YULHA UNION 30,889,243 30,889,243 254,282,207 231,970,707						
254,282,207 231,970,707		YULHA UNION				
₩ 5,718,191,725 ₩ 3,074,734,697						
			₩	5,718,191,725	₩	3,074,734,697

39.4. The Group's securities received as deposits held on behalf of clients as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

,	De	December 31, 2021		December 31, 2020	
Securities received as deposit:				_	
Consigner	₩	29,294,471,482	₩	19,925,402,653	
Savers		4,154,463		3,836,830	
Beneficiary		9,582,833,633		7,431,459,641	
	₩	38,881,459,578	₩	27,360,699,124	
Securities loaned:					
Stock	₩	1,287,968,329	₩	1,171,523,854	
Bonds		681,366,166		449,944,040	
	₩	1,969,334,495	₩	1,621,467,894	
Securities borrowed:					
Stock	₩	1,265,852,482	₩	645,692,128	
Bonds		4,533,525,107		1,661,226,016	
	₩	5,799,377,589	₩	2,306,918,144	
Written-off loan	₩	193,683,510	₩	168,785,767	

40. Related party disclosures

40.1. Significant related parties for the year ended December 31, 2021 are as follows.

Company

Parent company

Meritz Financial Group Inc.

Associates

Korea Asset Classic Private Investment Trust 2nd

Airplane fund 5th Airplane fund 6th

Meritz Professional Private Real Estate Investment Trust 8th Meritz Professional Private Real Estate Investment Trust 7th

M Plus Sky Private Investment Trust 4th

Heungguk Flight Private Investment Trust 10th Heungguk Flight Private Investment Trust 11th

Al Partners Energy Infra Private Investment Trust 1st

Heungguk Flight Private Investment Trust 12th Heungguk Flight Private Investment Trust 13th Mastern Europe Real Estate Investment Trust 5th Mastern Europe Real Estate Investment Trust 10th

JB IPO Private Fund Trustee 3 I

SUN&TREE IPO HIGH-YIELD HEDGE FUND 4

Global One Professional Investment Type Private IPO Investment Trust No.2

Anda Project C Private Securities Investment Trust 1

EK IPO High Yield Private Equity Trust II

CrownRock IPO I Hedge Fund

Consus Busan Gijang Private Real Estate Fund no.2

EK IPO Private Equity Trust III

Skywalk Game Changer Hedge Fund No.1

Intrus Value-add Professional Investment Private Fund#3

Asia growth 1st private equity Investment Limited Partnership

MERITZ NS GLOBAL BIO FUND

Kclavis Meister 38th

Genesis North America PowerCompany 1st

Gongpyeong 15-16 PFV OST Partners, Co., Ltd.

Rhinos-Meritz fund

Higs Frontier, Co., Ltd

ASEAN Platform Fund No. 1

TK Build, Co., Ltd

Meritz-DS Fund

Rhinos-Meritz fund 2

Chungmu-ro PFV Co., Ltd.

GAHA YOU&I CO., LTD

Hangang Landmark PFV Co., Ltd.

DAON CONSTRUCTION, Co., Ltd.

Galmae PFV Co., Ltd.

Attila Infrastructure Private Equity Fund I

New wave fund 2

40.1. Significant related parties for the year ended December 31, 2021 are as follows. (cont'd)

Com	panv

Associates

Songgang Construction

DAE-SAN ENG CO.,LTD

Meritz Alphaview fund 1

Next V City PFV Co., Ltd.

Triple space, Co., Ltd.

Sunu Urban Development

Meritz Kingo fund 1

Meritz Kclavis fund 1

Mastern 116th Gangnam Premium PFV

Meritz Alphaview Fund2

SMDNC

Anseong Seongeun logistics PFV Co. Ltd

DM METAL

Handaritz

Meritz GoldenEgg Fund1

S R Industrial Co., Ltd

Sinchon 2-7

Dowon Corporation

SW-RN Fund

YKOSAN PFV

NH-Meritz Contents 1 Fund

Meritz Hyundai Investment Partners

Daehoon Partners Corp.

JQ

Hanyang-Meritz 1 Fund

Heung Young Industrial Development

The First Porte 2

KAI-Veritas Venture Fund 1

KI CHUNGPYUNG

BUG Logistics Project Finance Investment

Hangang Eco

JUN GEUM Construction Co., Ltd

Cornerstone Mutual Growth Vill Fund

Gimhae Daedong Smart Logistics Corp

KR Seocho Co., Ltd.

COSMOS

Hanwha-Pentastone I Funds

Meritz-AssetOne 1 Partners

Dongtan Triple Space

Hanyang-Pentastone Hi-tech I Funds

Meritz-NH healthcare 1 Fund

Meritz-SNP 1 Fund

AIP Euro Green Private Real Estate Investment Trust 7th

AIP Euro Green Private Real Estate Investment Trust 8th

Kiwoom Milestone US Professional Private Real Estate Trust 18

Midas Global DEBT Private Real Estate Investment Trust 6th

40.1. Significant related parties for the year ended December 31, 2021 are as follows. (cont'd)

	Company				
Associates	UP Global Private Real Estate Fund VI				
Associates	NH Presidio Investments LLC				
	IGIS Global Private Real Estate Investment Trust 301				
	Edelweiss Alternative Solutions Trust				
	IGIS US Private Real Estate Investment Trust 292				
	IGIS US Private Real Estate Investment Trust 266				
	PIA Private Real Estate Investment Trust No. 6-1				
	PIA Private Real Estate Investment Trust No. 6-2				
	Shinhan AIM Real Estate Fund No. 22-A				
	IGIS Global Private Real Estate Investment Trust 434				
	Consus Osan Segyo Private Real Estate Fund				
	Yuamkopain wood Enterprise Financial Stability corporate Investment Limited PA				
	Hyundai Ufirst Private Placement Fund No.32				
	Hizeasset IPO Private Investment Trust 2				
	Trinity Unicorn IPO FUND 1st				
	SUN&TREE IPO FUND 1st				
	Kclavis Private Investment Trust 2nd				
	VM Energy Highyield Fund				
Other related parties (*)	Meritz Fire & Marine Insurance Co., Ltd				
,	Meritz Asset Management Co., Ltd				
	Meritz Alternative Investment Management Co., Ltd.				
	Meritz DM Investment Trust on Special Asset 1st				
	Meritz Vietnam Security Investment Trust				
	Meritz Private Real Estate Fund 20				
	Meritz Private Real Estate Fund 21				
	Ecodaisy				
	DK Project 4th Co., Ltd				
	•				
	Cosplace 1st				
	PT.MERITZ KORINDO INSURANCE				
	Meritz Korea Securities Feeder Investment Trust 1 C-2				
	Meritz China Security Investment Cl				
	VI Light Professional Private Investment Trust 1				
	Ciel IPO Private Investment Trust No.1				
	KIM Navigator Securities Investment Trust 1(Equity)(C-F)				
	SP High Yield Private Investment Trust 2				
	Alpha Senior Loan Real Estate General Investment Trust 1				
	PIM Bond and IPO Investment Trust 1				
	PIM IPO Private Investment Trust 3				
	Woori IPO High Yield Private Investment Trust 2				
	MiraeAsset High Dividend Focus Feeder Investment Trust (Equity)(C-I)				
	Belle Époque Opportunity High-Yield, High-Risk Hedge Fund 1				
	Eastspring Best growth Private Investment Trust 2nd				
	JR General Private Placement Real Estate Fund Investment Trust No.9-1				
	Meritz Private Real Estate Fund 19				

Ciel IPO High Yield Private Investment Trust 2

40.1. Significant related parties for the year ended December 31, 2021 are as follows. (cont'd)

	Company
Other related parties (*)	Korea Asset Classic IPO Private Equity Fund 4
	PineStreet Asia Private Placement Special Asset Investment Trust No. 1-2
	Hize High-yield IPO Private Investment Trust 3
	Global One High Yield IPO Private Investment Trust 3
	PTR USA NASDAQ100 Core Professional Private Investment Trust 1
	Meritz China Security Investment C4
	Meritz salaryman stockholder C
	Meritz salaryman stockholder C-P2
	Meritz Korea smallcap Securities Investment trusts CI
	Meritz Korea Opportunity Private Securities
	Meritz Global Infra stockholder C
	Meritz Global Bond stockholder Ae
	Meritz Global Healthcare Investment Trust on Securities 1st (C4)
	Meritz the woman security Investment CF
	Meritz Korea stockholder C-P2
	Kingo Bio Growth 3rd Fund
	KAI-DI Hiddentag fund
	Seongnam Godeung Jeil Pungkyeongchae Fund No.1

(*) As a subsidiary of Meritz Financial Group Co., Ltd., it has a related party relationship with the consolidated subsidiary

40.2. Significant transactions with related parties for the years ended December 31, 2021 and 2020 are summarized as follows (in thousands of Korean won):

		Year ended			Year ended			
		Decembe				December	31,	
	Company	Income		Expense		Income		Expense
Parent company	Meritz Financial Group	₩ 22,227	₩	29,602,980	₩	90,000	₩	29,441,464
Associates	Mastern Private Real Estate Investment Trust							
	40th	-		-		173,221		-
	Gongpyeong 15-16 PFV	-		-		3,565,600		-
	OST Partners, Co., Ltd.	6,235,414		674,690		3,952,382		135,941
	Cheongna Logistics, Co., Ltd.	100,678		-		144,566		-
	Higs Frontier, Co., Ltd	48,407		-		-		224
	TK Build, Co., Ltd	35,800		-		7,719		-
	GAHA YOU&I CO., LTD	62,920		157		713,959		25,817
	DAON CONSTRUCTION, Co., Ltd.	1,659,042		150,797		-		96,813
	DAE-SAN ENG CO.,LTD	3,360,805	,	6,674,722		2,740,881		1,032,673
	Galmae PFV Co., Ltd.	3,921,800		26,567		2,315,047		185,008
	triple space, Co., Ltd.	92,778		-		-		59,164
	Sunu Urban Development	1,260,403		107,976		-		19,183
	Mastern 116th Gangnam Premium PFV	2,004,033		-		-		-
	SMDNC	17,128		29,478		_		-
	Eun-Pyung, Complex			,				
	Development. Ltd.	441,343		-		-		-
	DM METAL	5,067,507		952,379		-		-
	Handaritz	74,170		44,909		-		-
	S R Industrial Co., Ltd	395,629		33,973		-		-
	Dowon Corporation	-		93,942		-		-
	Daehoon Partners Corp.	-		32,394		-		-
	JQ	22,572		68,027		-		-
	Heung Young Industrial Development	130,408		29,945		-		-
	YKOSAN PFV	150,356		174,693		-		-
	The First Porte 2	8,620		45,351		-		-
	JUN GEUM Construction Co., Ltd	8,772		68,027		-		-
	COSMOS	23,145		37,924		_		-
Others	Dongtan Triple Space Meritz Fire & Marine	844,445		808,755		-		-
	Insurance Co., Ltd	293,028		8,297,305		1,000		7,959,300
	Meritz Asset Management Co., Ltd	-		40,897		-		19,271
	DK Project 4th Co., Ltd	3,512,073		-		2,541,270		90,565
	GPI8 Co., Ltd.	5,389,455	,	-		4,983,647		-
	GSS1 Co., Ltd.	-		<u>-</u>		1,196,737		
	Ecodaisy	999,932		1,608		326,005		52,474
	Cosplace 1st	604,712		10,740		- 4 700 445		-
	Mugunghwa Trust Co., Ltd	1,035,616		<u> </u>		1,763,115		<u> </u>
		₩ 37,823,218	₩	48,008,236	₩	24,515,149	₩	39,117,897

40.3. Dividends and distributions received from related parties for the years ended December 31, 2021 and 2020 are summarized as follows (in thousands of Korean won):

	Polated parties	Year ended December 31,	Year ended December 31,
Related parties	Related parties Korea Asset Classic Private Investment Trust	2021	2020
rtelated parties	2nd	₩ 33,750	57,187
	Airplane fund 5	, ,	490,870
	Airplane fund 6		- 286,418
	Meritz Professional Private Real Estate		
	Investment Trust 8th	7,884	9,064
	Meritz Professional Private Real Estate	05.00	40.705
	Investment Trust 7th	25,807	
	M Plus Sky Private Investment Trust 4th Al Partners Energy Infra Private Investment	185,745	5 158,783
	Trust 1st	1,553,462	2,039,341
	Heungguk Flight Private Investment Trust 10th	1,000,102	- 798,671
	Heungguk Flight Private Investment Trust 11th		474,561
	Heungguk Flight Private Investment Trust 12th	771,040	
	Heungguk Flight Private Investment Trust 13th	42,230	
	Mastern Private REIT No.5	42,230	- 14,121
	Mastern Europe Real Estate Investment Trust		- 14,121
	10th	6,255,066	4,605,234
	JB IPO Private Fund Trustee 3 I	154,727	
	SUN&TREE IPO HIGH-YIELD hedge fund 4	111,873	
	Global One Professional Investment Type	,	
	Private IPO Investment Trust No.2	372,748	-
	Intrus Value-add Professional Investment	1 112 769	1
	Private Fund#3 Hana Special Situation Professional Private	1,443,762	-
	Real Estate Investment Trust 30th		- 132,104
	Skywalk Convertible Private Investment Trust		- , -
	2nd		- 73,577
	IPARTNERS SS NPL Private Investment Trust		000 504
	3th Hangang Naepo Green Energy Private		- 282,561
	Special Asset Fund		97,671
	Genesis North America PowerCompany 1st	3,006,970	
	Rhinos-Meritz fund	142,93	
	KCGI Private Equity Fund 1-12	3,529,692	,
	Kiwoom Meritz Trend 1 Fund	4,267	
	New Wave Medical Investment Union	1,201	- 291,627
	Y&P Growth Fund 1		- 14,703
	AIP Euro Green Private Real Estate		14,703
	Investment Trust 7th	5,226,747	5,402,930
	AIP Euro Green Private Real Estate		
	Investment Trust 8th	4,286,132	3,531,756
	Kiwoom Milestone US Professional Private Real Estate Trust 18	2,670,500	5,235,786
	UP Global Private Real Estate Fund VI		
	NH Presidio Investments LLC	3,172,456	
	Edelweiss Alternative Solutions Trust	12,789,195	
	Eucliweiss Alternative Solutions Trust	8,199,559	4,168,645

40.3. Dividends and distributions received from related parties for the years ended December 31, 2021 and 2020 are summarized as follows (in thousands of Korean won) (cont'd):

	Related parties		ear ended cember 31, 2021		Year ended December 31, 2020
Related parties	IGIS Global Private Real Estate Investment		2021		2020
Related parties	Trust 301	₩	174,870	₩	_
	IGIS US Private Real Estate Investment Trust	• • •	174,070	• • •	_
	292		7,079,241		5,486,113
	IGIS US Private Real Estate Investment Trust		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2,122,112
	266		7,900,200		3,748,347
	Hyundai Ufirst Private Placement Fund No.32		1,925,600		-
	Hizeasset IPO Private Investment Trust 2		480,286		_
	Trinity Unicorn IPO FUND 1st		236,998		<u>-</u>
	SUN&TREE IPO FUND 1st		1,072,604		_
	Kclavis Private Investment Trust 2nd		700,061		
	Midas Global DEBT Private Real Estate		700,001		-
	Investment Trust 6th		2,584,555		1,686,178
	Shinhan AIM Real Estate Fund No. 22-A		965,838		, , -
	Consus Osan Sehyo Private Real Estate Fund		419,014		_
	IGIS Global Private Real Estate Investment		410,014		
	Trust 254		4,718,874		6,171,600
	PineStreet Global Corporate Finance PEF		, ,		, ,
	Trust No.2		919,414		1,331,694
	Pacific Private Placement REF 36		2,438,241		977,909
	Germany Office Real Estate Private				
	Placement Fund No.28		625,124		-
	Platform Partners ESS Private Special Asset				200.000
	Investment Trust 1st				803,099
		₩	86,227,463	₩	57,314,956

40.4. Outstanding balances with related parties as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		December 3	31, 2021	December 31, 2020		
	Company	Assets	Liabilities	Assets	Liabilities	
Parent company	Meritz Financial Group(*1)	₩ - ₩	94,635,865	₩ -	₩ 34,506,813	
Associates	OST Partners, Co., Ltd.	146,739,518	2,772,669	72,930,272	3,054,254	
	Cheongna Logistics, Co., Ltd.	-	-	2,419,322	-	
	Higs Frontier, Co., Ltd	-	-	1,451,593	-	
	TK Build, Co., Ltd	766,826	-	1,099,692	-	
	GAHA YOU&I CO., LTD DAON CONSTRUCTION,	1,656,946	2,603	1,644,183	2,603	
	Co., Ltd.	18,110,311	1,170,013	2,903,187	-	
	DAE-SAN ENG CO.,LTD	9,292,605	- · · · · · -	30,866,889	2,125,552	
	Galmae PFV Co., Ltd.	57,835,733	1,450,798	57,677,583	1,783,124	
	Triple space, Co., Ltd.	-	-	2,040,836	· · · · -	
	Sunu Urban Development	29,528,805	25,757	650,817	-	
	SMDNC	897,649	-	-	-	
	DM METAL	29,331,566	821,918	-	-	
	Handaritz	1,369,260	-	-	-	
	S R Industrial Co., Ltd	1,050,420	-	-	-	
	Dowon Corporation	2,806,058	-	-	-	
	Daehoon Partners Corp.	967,606	-	-	-	
	JQ	2,054,544	-	-	-	
	Heung Young Industrial					
	Development	1,200,364	-	-	-	
	YKOSAN PFV	6,825,307	127,342	-	-	
	The First Porte 2 JUN GEUM Construction	1,363,269	-	-	-	
	Co., Ltd	2,033,863	-	-	-	
	COSMOS	1,089,036	-	-	-	
Others	Dongtan Triple Space Meritz Fire & Marine	40,702,177	-	-	-	
Others	Insurance Co., Ltd (*2) Meritz Asset Management	1,247,842	272,194,671	118,798	109,503,248	
	Co., Ltd	-	28,561	-	5,987	
	DK Project 4th Co., Ltd	18,996,277	79,886	48,577,785	560,207	
	GPI8 Co., Ltd.	-	-	67,600,526	-	
	GSS1 Co., Ltd.	-	-	18,241,764	-	
	Ecodaisy	20,007,677	-	20,009,353	-	
	Cosplace 1st Mugunghwa Trust Co., Ltd	10,338,580	60,274	- 60 000 000	055.060	
	wagangnwa musi co., Lla	₩ 406,212,239	373,370,357	60,000,000 ₩ 388,232,600	955,068 ₩ 152,496,856	

^(*1) In addition to the above, the outstanding balances of hybrid bond with related parties by Meritz Financial Group Inc. is \forall 200,000 million in 2021.

^(*2) In addition to the above, the outstanding balances of hybrid bond with related parties by Meritz Fire & Marine Insurance Co., Ltd is 350,000 thousand and 250,000 thousand in 2021 and 2020 respectively.

40.5. The details of funds transaction with the related parties for the years ended December 31, 2021 and 2020 are summarized as follows (in thousands of Korean won):

Year ended December 31, 2021

			December	⁻ 31, 2021	
Company	Loan		Collection	Borrowing	Repayment
Meritz Fire & Marine Insurance	_				
Co., Ltd	₩ -	₩	-	₩ 170,600,000	₩ 8,983,502
OST Partners, Co., Ltd.	74,400,000		-	-	
Cheongna Logistics, Co., Ltd.	-		2,500,000	-	,
Higs Frontier, Co., Ltd	-		1,500,000	-	
TK Build, Co., Ltd	-		343,865	-	,
DAON CONSTRUCTION, Co.,					
Ltd.	25,660,000		10,300,000	-	,
DAE-SAN ENG CO.,LTD	-		15,000,000	-	,
Triple space, Co., Ltd.	-		1,400,000	-	,
Sunu Urban Development	29,100,000		-	-	,
Mastern 116th Gangnam					
Premium PFV	140,000,000		140,000,000	-	,
SMDNC	910,000		-	-	
Eun-Pyung, Complex					
Development. Ltd.	2,999,000		2,999,000	-	,
DM METAL	40,000,000		10,600,000	-	,
Handaritz	1,400,000		-	-	,
S R Industrial Co., Ltd	1,048,764		-	-	,
Dowon Corporation	2,900,000		-	-	,
Daehoon Partners Corp.	1,000,000		-	-	,
JQ	2,100,000		-	-	
Heung Young Industrial					
Development	1,199,900		-	-	,
YKOSAN PFV	7,000,000		-	-	,
The First Porte 2	1,400,000		-	-	,
JUN GEUM Construction Co.,					
Ltd	2,100,000		-	-	•
COSMOS	1,195,500		-	-	
Dongtan Triple Space	41,300,000		-	-	
DK Project 4th Co., Ltd	3,100,000		32,832,400	-	
GPI8 Co., Ltd.	-		68,454,720	-	
GSS1 Co., Ltd.	909,393		17,225,176	-	
Cosplace 1st	10,000,000		-	-	
Mugunghwa Trust Co., Ltd			60,000,000		
	₩ 389,722,557	₩	363,155,161	₩ 170,600,000	₩ 8,983,502

40.5. The details of funds transaction with the related parties for the years ended December 31, 2021 and 2020 are summarized as follows (in thousands of Korean won) (cont'd):

Year ended December 31, 2020

	December 31, 2020					
Company	Loan		Collection	Borrowing	R	epayment
Meritz Fire & Marine						
Insurance Co., Ltd	₩ -	₩	-	₩ -	₩	64,750,000
Mastern Private Real Estate						
Investment Trust 40th	-		16,200,000	-		-
IPARTNERS SS NPL Private						
Real Estate Investment Trust						
No.3	-		16,000,000	-		-
Gongpyeong 15-16 PFV	30,720,000		88,720,000	-		-
OST Partners, Co., Ltd.	13,800,000		-	-		-
Cheongna Logistics, Co., Ltd.	-		8,150,000	-		-
Higs Frontier, Co., Ltd	-		-	-		-
TK Build, Co., Ltd	-		1,363,636	-		-
GAHA YOU&I CO., LTD	1,690,000		-	-		-
DAON CONSTRUCTION,						
Co., Ltd.	3,000,000		-	-		-
DAE-SAN ENG CO.,LTD	35,000,000		3,000,000	-		-
Galmae PFV Co., Ltd.	58,500,000		-	-		-
triple space, Co., Ltd.	2,100,000		-	-		-
Star Hub Seungdoo						
Development	670,000		-	-		-
DK Project 4th Co., Ltd	24,800,000		-	-		-
GPI8 Co., Ltd.	-		3,602,880	-		-
GSS1 Co., Ltd.	9,514,956		-	-		-
Ecodaisy	20,000,000		-	-		-
Mugunghwa Trust Co., Ltd	60,000,000		-			<u>-</u>
	₩ 259,794,956	₩	137,036,516	W -	₩	64,750,000

^(*) In addition to the above, among hybrid issued in current period, $\mbox{$W$200,000$ million of the hybrid bonds issued by the consolidated company and $\mbox{$W$180,000$ million by the Meritz Fire & Marine Insurance were raised. Among hybrid issued before the previous period, $\mbox{$W$80,000$ million is redempted by Meritz Fire & Marine Insurance.}$

40.6. The details of contribution and collection with the related parties for the years ended December 31, 2021 and 2020 are summarized as follows (in thousands of Korean won):

		ended er 31, 2021	Year ended December 31, 2020			
Company	Contribution Collection		Contribution	Collection		
Meritz Korea Private Investment						
Trust 1st	₩ -	₩ -	₩ -	₩ 97,971		
Meritz Korea Private Investment						
Trust 2nd	-	-	-	97,903		
Airplane fund 5	-	-	963,331	123,353		
Airplane fund 6	-	-	206,145	33,209		
Hana Special Situation Professional Private Real						
Estate Investment Trust 30th	_	_	_	4,017,529		
Meritz Professional Private Real				1,017,020		
Estate Investment Trust 8th	10,396	9,885	14,869	75,189		
Meritz Professional Private Real						
Estate Investment Trust 7th	19,640	-	-	8,430		
M Plus Sky Private Investment						
Trust 4th	152,220	83,283	-	141,622		
Heungguk Flight Private	440.040		75.400	045 544		
Investment Trust 10th	446,810	-	75,162	815,511		
Heungguk Flight Private Investment Trust 11th	342,056		60,520	623,516		
Skywalk Convertible Private	342,030	-	00,320	023,310		
Investment Trust 2nd	_	_	-	816,311		
IPARTNERS SS NPL Private				0.0,0		
Investment Trust 3th	-	-	-	2,000,002		
Al Partners Energy Infra Private				, ,		
Investment Trust 1st	1,381,955	6,706,577	1,466,446	6,869,146		
Heungguk Flight Private						
Investment Trust 12th	-	1,641,515	1,030,438	101,504		
Heungguk Flight Private	00.540		474 000	0.45		
Investment Trust 13th	69,513	-	171,998	845		
Mastern Europe Real Estate Investment Trust 5th	_	_	_	6,715,457		
Mastern Europe Real Estate				0,7 10,407		
Investment Trust 10th	_	2,191,021	_	2,282,508		
Hangang Naepo Green Energy		_, ,		_,,		
Private Special Asset Fund						
Trust(SOC)	-	-	10,000,000	10,136,438		
JB IPO Private Fund Trustee 3 I	12,000,000	12,088,678	9,600,000	9,000,000		
Vogo-wavefront multi strategy	4 000 000					
fund #1	1,000,000	-	-	-		
SUN&TREE IPO HIGH-YIELD HEDGE FUND 4	45,200,000	30,559,982				
Global One Professional	45,200,000	30,339,902	-	-		
Investment Type Private IPO						
Investment Trust No.2	42,500,000	40,185,881	-	-		
Hize High-yield IPO Private						
Investment Trust 3	8,000,000	4,000,000	-	-		
Anda Project C Private Securities						
Investment Trust 1	1,000,000	-	-	-		
EK IPO High Yield Private Equity	6 000 000					
Trust II Consus Busan Gijang Private	6,000,000	-	-	-		
Real Estate Fund no.2	1,375,000	_	_	_		
CrownRock IPO I Hedge Fund	3,000,000	_	-	_		
Skywalk Game Changer Hedge	3,000,000					
Fund No.1	2,000,000	-	-	-		
EK IPO Private Equity Trust III	5,000,000	2,499,225	-	-		
Intrus Value-add Professional						
Investment Private Fund#3	13,163,066	13,038,086	-	-		

40.6. The details of contribution and collection with the related parties for the years ended December 31, 2021 and 2020 are summarized as follows (in thousands of Korean won) (cont'd):

	Year ended December 31, 2021			Year ended December 31, 2020			
Company	Contribution		Collection	Contribution		Collection	
MERITZ NS GLOBAL BIO FUND	₩ 650,650	₩	300,820	₩ 49,000	₩	1,054,906	
Genesis North America	333,333		000,020	.0,000		.,00.,000	
PowerCompany 1st	-		1,527,755	66,120		1,098,147	
Gongpyeong 15-16 PFV	-		-	· -		360,000	
New Wave Medical Investment						·	
Union	-		-	-		1,000,000	
Seocho Art PFV	-		-	-		1,093,448	
OST Partners, Co., Ltd.	-		250,000	-		500,000	
Y&P Growth Fund 1	-		-	-		1,149,212	
Rhinos-Meritz fund	-		381,576	-		575,220	
Meritz-Koreit fund 1	-		-	-		1,602,647	
Meritz Behigh Fund Bric-Orbit 8th New Technology	-		-	-		259,865	
Investment Union	_		1,000,000	_		_	
KCGI Private Equity Fund 1-12	-		20,000,000	_		<u>-</u>	
Cheongna Logistics, Co., Ltd.	_		6,000,019	_		_	
Chungmu-ro PFV Co., Ltd.	-		-	900,000		-	
Hangang Landmark PFV Co., Ltd.	-		-	870,000		-	
DAON CONSTRUCTION, Co.,							
Ltd.	-		-	1,900		-	
GAHA YOU&I CO., LTD	-		-	10,000		-	
Galmae PFV Co., Ltd.	-		-	975,000		-	
New wave fund 2	-		-	1,500,000		-	
DAE-SAN ENG CO.,LTD	-		-	3,000,000		-	
Songgang Construction	-		-	30,000		-	
Meritz Alphaview fund 1 Next V City PFV Co., Ltd.	-		-	500,000 950,000		-	
Triple space, Co., Ltd.	-		-	950,000		-	
Sunu Urban Development	64,000		_	13		_	
Meritz Kingo fund 1	-		_	2,000,000		_	
Meritz Kclavis fund 1	_		-	1,000,000		-	
Mastern 116th Gangnam				, ,			
Premium PFV	700,010		-	-		-	
Meritz Alphaview Fund2	3,000,000		-	-		-	
SMDNC	13		-	-		-	
Anseong Seongeun logistics PFV							
Co. Ltd	500,000		-	-		-	
DM METAL	3,000,000		-	-		-	
Eun-Pyung, Complex Development. Ltd.	1,000		1,000				
Handaritz	1,330		1,000	_		-	
Meritz GoldenEgg Fund1	1,000,000		_	_		_	
S R Industrial Co., Ltd	1,236		_	_		_	
Dowon Corporation	100,000		-	_		-	
Sinchon 2-7	1,500,000		-	_		-	
SW-RN Fund	900,000		-	-		-	
YKOSAN PFV	995,000		545,000	-		-	
Heung Young Industrial							
Development	100		-	-		-	
Hanyang-Meritz 1 Fund	1,000,000		-	-		-	
JQ	13		-	-		-	
Daehoon Partners Corp.	19		-	-		-	
Meritz Hyundai Investment Partners	2,000,000						
NH-Meritz Contents 1 Fund	2,000,000		<u>-</u>	<u>-</u>		-	
THE WORLD COMOTION I I UNIT	2,000,000		-	_		-	

40.6. The details of contribution and collection with the related parties for the years ended December 31, 2021 and 2020 are summarized as follows (in thousands of Korean won) (cont'd):

	Year ended December 31, 2021		Year ended December 31, 2020		
Company	Contribution	0. 0	Collection	Contribution	Collection
Kiwoom Meritz Trend 1 Fund	₩ 3,000,000	₩	3,000,000	₩ -	₩ -
The First Porte 2	1,393		0,000,000		_
KAI-Veritas Venture Fund 1	800,000			_	_
KI CHUNGPYUNG	250,000		_	_	-
Hangang Eco	150,000		_	_	_
BUG Logistics Project Finance	100,000				
Investment	249,995		_	_	_
Gimhae Daedong Smart Logistics	,				
Corp	420,000		-	_	_
Cornerstone Mutual Growth Vill	•				
Fund	700,000		-	-	-
JUN GEUM Construction Co., Ltd	41,790		-	-	-
KR Seocho Co., Ltd.	1,000,000		-	-	-
Meritz-AssetOne 1 Partners	3,000,000		-	-	-
Hanwha-Pentastone I Funds	2,000,000		-	-	-
COSMOS	2,700		-	-	-
Dongtan Triple Space	616		-	-	-
Hanyang-Pentastone Hi-tech I	0.000.000				
Funds	2,000,000		-	-	-
Meritz-NH healthcare 1 Fund	3,000,000		-	-	-
Meritz-SNP 1 Fund AIP Euro Green Private Real	2,700,000		-	-	-
Estate Investment Trust 8th	4,814,535				
Kiwoom Milestone US	4,014,333		-	-	-
Professional Private Real Estate					
Trust 18	_		57,122,368	6,703,488	8,313,562
IGIS Global Private Real Estate			0.,,000	0,1 00, 100	0,0.0,002
Investment Trust 254	-		70,605,591	3,477,600	-
Mastern Private Real Estate			, ,	, ,	
Investment Trust 61th	-		10,632,175	-	-
IGIS Global Private Real Estate					
Investment Trust 301	61,721,027		-	95,521,011	-
IGIS Global Private Real Estate					
Investment Trust 434	39,867,569		-	-	-
Genesis north america power			00 740 054		
company no.1 PEF	-		22,719,051	-	-
Edelweiss Alternative Solutions	1 016 762		0.240.702	12 457 022	
Trust IGIS US Private Real Estate	1,916,763		9,210,793	13,457,822	-
Investment Trust 292	3,992,337		5,754,669	6,399,529	6,171,940
IGIS US Private Real Estate	0,992,007		5,754,003	0,000,020	0,171,340
Investment Trust 266	23,674,162		_	_	3,582,000
Pacific Private Placement REF 36	1,083,790		33,066,719	31,420,949	-
Germany Office Real Estate	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,.	,,	
Private Placement Fund No.28	328,573		13,363,752	12,528,651	-
PIA Private Real Estate					
Investment Trust No. 6-1	-		19,314,000	171,172,800	2,622,000
PIA Private Real Estate					
Investment Trust No. 6-2	-		38,370,000	78,454,200	22,068,000
Kiwoom Vietnam Professional					
Private Trust 1	-		-	60,000	60,000
Midas Global DEBT Private Real	0744000			440 400	207.001
Estate Investment Trust 6th	9,744,063		-	116,122	637,991
Platform Partners ESS Private					
Special Asset Investment Trust 1st					22,830,917
131	-		-	-	22,030,917

40.6. The details of contribution and collection with the related parties for the years ended December 31, 2021 and 2020 are summarized as follows (in thousands of Korean won) (cont'd):

		r ended oer 31, 2021	Year ended December 31, 2020			
Company	Contribution	Collection	Contribution	Collection		
AIP KR Green Private Real						
Estate Investment Trust 2nd	₩ -	₩ -	₩ 380,086,947	₩ 380,086,947		
Mastern Private Real Estate Investment Trust 40th				27 520 446		
Shinhan AIM Real Estate Fund	-	-	-	27,530,446		
No. 22-A	17,215,966	_	_	_		
WooriG Professional Investor's	17,210,000					
Private Real Estate Investment						
Trust No. 2	-	34,999,040	35,000,000	-		
Consus Osan Segyo Private Real						
Estate Fund	3,250,000	-	-	-		
Yuamkopain wood Enterprise						
Financial Stability corporate Investment Limited PA		9 600 000	2 690 000			
PineStreet Global Corporate	-	8,600,000	2,680,000	-		
Finance PEF Trust No.2	283,145	24,624,078	1,136,404	105,429,459		
Hyundai Ufirst Private Placement	200,1.0	_ :, = :, = :	.,,	.00, .20, .00		
Fund No.32	-	-	30,000,000	-		
Hizeasset IPO Private Investment						
Trust 2	1,022,312		-	-		
Trinity Unicorn IPO FUND 1st	1,135,276		-	-		
SUN&TREE IPO FUND 1st	1,242,560	-	-	-		
Kclavis Private Investment Trust	4 440 400					
2nd VM Energy Highyield Fund	1,116,199 10,000,000		-	-		
VIVI Elletgy Flightyleta Fulla		· ·				
	₩ 361,798,798	₩ 494,392,539	₩ 903,656,478	₩ 631,983,151		

40.7. The balance of the agreements provided to related parties of the consolidated company as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	December 31, 2021		Decem	ber 31, 2020
Commitment for				_
loans on limit	₩	111,348,215	₩	285,121,086

The balance of the agreements provided by related parties of consolidated company as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	December 31, 202	21 Dec	ember 31, 2020
Limit transaction of			
Commercial Paper	₩	- ₩	150,000,000

40.8. The balance of the loan receivable transferred under bond transfer agreements with the related parties for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Year ended		Year ended		
	December 31, 2021	Dec	December 31, 2020		
Meritz Fire & Marine					
Insurance Co., Ltd	$ooklimbs{W}$	- ₩	280,000,000		

40.9. Details of compensation paid to key management personnel are shown below. The key management personnel is composed of registered directors and non- registered directors who have the authority and responsibilities of corporate activities (in thousands of Korean won):

	Year ended December 31, 2021			Year ended December 31, 2020		
Short-term salary	₩	64,658,517	₩	50,358,280		
Severance payment		2,411,901		2,436,628		
	₩	67,070,418	₩	52,794,908		

41. Statements of cash flows

41.1. Cash and cash equivalents in the statements of cash flows as of December 31, 2021 and 2020 are summarized as follows (in thousands of Korean won):

	De	cember 31, 2021	Dec	ember 31, 2020
Cash	₩	-	₩	-
Cash equivalents		1,166,594,503		999,735,337
Cash and Cash equivalents on statement of financial position		1,166,594,503		999,735,337
Overdraft used for cash management purposes		-		
Cash and Cash equivalents on cash flow statements	₩	1,166,594,503	₩	999,735,337

41.2. Significant non-cash transactions for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	-	ear ended ecember 31, 2021		ear ended ecember 31, 2020
Gain (loss) on valuation of financial assets measure at FVOCI	₩	33,393,297	₩	51,445,033
Transferred between profit/loss from disposal of fair value measurement instruments		540,000		1,338
Actuarial valuation of the net defined benefit liabilities		(102,114)		(1,169,296)
Transferred between gain(loss) on valuation of financial liabilities		(500 105)		720 451
measured at FVTPL and other comprehensive income		(582,185)		739,451
Unpaid dividends of hybrid bond		3,689,305		724,590
Present value discount of other assets		173,706		307,132
Present value discount of withholdings		10,984,934		7,734,107
Initial recognition of provisions for restoration costs		308,415		74,007
Replacement of advance payment and tangible assets		4,658		84,541
Replacement of advance payment and intangible assets		136,853		248,204
Increase in real-estate investment		150,381,290		-
Alternative to investment in affiliated companies by gaining significant influence		4,516,347		_
Bad debts written off		71,611,897		65,504,616
Increase in non-controlling interests		8,294,100		6,502,800
Increase (decrease) in loss on foreign currency transactions		6,169,926		(1,531,904)
Increase (decrease) in valuation of Investment Stock Using the Equity Method		1,741,140		(1,741,140)
Removed internal transactions of auto lease				(346,782)
Recognition of lease-related assets and liabilities		10,038,595		5,497,582
Replacement of right-of-use asset and receivables		51,000		296,100
Conversion of convertible preferred stock into common stock		,		,
•		38,871		15,566,476
Accounts payable related to treasury shares		3,108,856		-
Increase in accounts payable of capital stock option		32,642,272		-

41.3. Net cash flows from the disposal of subsidiaries for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	December 31, 2021		December 31,2020	
Proceed from disposal	₩	68,712,659	₩	50,373,850
Cash and cash equivalent in subsidiaries		(238,089,828)		(65,732,466)
Net cash flow	₩	(169,377,169)	₩	(15,358,616)

41.4. Changes in liabilities arising from financing activities for the years ended December 31, 2021 are as follows (in thousands of Korean won):

				N	=		
	January 1, 2021	Cash flow	Change in scope of consolidation	New or Prepayment	Changes of exchange rate	Amortization of discount on debentures	December 31, 2021
Call money	₩ 210,000,000	₩ (210,000,000)	₩ -	₩ -	₩ -	₩ -	₩ -
Borrowing from bank	-	50,000,000	-	-	-	-	50,000,000
Borrowing from KSFC Borrowing in foreign	486,523,463	(42,103,911)	-	-	-	-	444,419,552
currency Repurchase	-	-	100,624,078	-	-	-	100,624,078
agreements sold	13,653,220,858	1,616,318,206	-	-	2,431,303	-	15,271,970,367
Other borrowings Asset backed short-term	3,821,127,145	3,975,082,239	(868,907,826)	-	-	-	6,927,301,558
bonds	1,138,973,000	1,577,060,000	(369,473,000)	-	-	-	2,346,560,000
Debentures	7,164,900,308	(146,195,845)	-	-	-	7,257,094	7,025,961,557
Lease liability	30,602,180	(9,401,156)		9,811,045		790,472	31,802,541
	W 26,505,346,954	₩ 6,810,759,533	₩ (1,137,756,748)	₩ 9,811,045	₩ 2,431,303	W 8,047,566	₩ 32,198,639,653

42. Trust accounts

The Group engages in the investment trust services and separately maintains the books of accounts and financial statements in connection with the trust operations (the trust accounts) from those of the Group accounts in accordance with the *Financial Investment Services and Capital Markets Act*.

42.1. Details of the financial information in relation to trust accounts as of December 31, 2021 are as follows (in thousands of Korean won):

	Specific money trust		Property trust		Total		
Cash and due from banks	₩	505,159,924	₩	-	₩	505,159,924	
Negotiable instruments		274,320,932		58,408,668		332,729,600	
Monetary claims		-		546,582,484		546,582,484	
Other assets		710,941		<u> </u>		710,941	
	₩	780,191,797	₩	604,991,152	₩	1,385,182,949	
Other liabilities	₩	2,289,892	₩	-	₩	2,289,892	
Trust and the original		777,901,905		604,991,152		1,382,893,057	
	₩	780,191,797	₩	604,991,152	₩	1,385,182,949	

42.2. Details of transactions with trust accounts as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Dece	December 31, 2021		
Fees on trust accounts	₩	4,558,313	₩	3,132,330
Accrued fees on trust accounts		535,589		308,629

43. Classification of financial assets and liabilities

Classification of financial assets and liabilities as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

			Dece	mber 31, 2021			
	Financial assets or liabilities measured at FVTPL	Financial assets or liabilities designated at FVTPL		ancial assets or lities measured at FVOCI		Measured at amortized cost	Total
Financial assets:							
Cash and due from banks Financial assets	₩ -	₩ -	₩	-	₩	3,817,859,155	₩ 3,817,859,155
measured at FVTPL	26,665,666,822	-		-		-	26,665,666,822
Derivative assets	316,677,363	-		-		-	316,677,363
Financial assets Measured at FVOCI	_	_		3,242,998,268		_	3,242,998,268
Loans	_	_		-		14,302,471,666	14,302,471,666
Finance lease receivables	-	-		-		1,038,023,421	1,038,023,421
Other financial assets						2,005,481,859	2,005,481,859
	₩ 26,982,344,185	₩ -	₩	3,242,998,268	₩	21,163,836,101	₩ 51,389,178,554
Financial liabilities: Deposits	₩ -	₩ -	₩	-	₩	2,564,607,606	₩ 2,564,607,606
Financial liabilities measured at FVTPL	4,259,810,973	-		-		_	4,259,810,973
Derivative liabilities	446,601,550	-		-		-	446,601,550
Financial liabilities designated at FVTPL	-	6,312,501,110		-		-	6,312,501,110
Borrowings	-	-		-		22,794,315,555	22,794,315,555
Bonds	-	-		-		9,372,521,557	9,372,521,557
Other financial liabilities				<u> </u>		2,587,476,873	2,587,476,873
	₩ 4,706,412,523	₩ 6,312,501,110	₩		₩	37,318,921,591	₩ 48,337,835,224
	Financial assets or	Financial assets or		ember 31, 2020 ancial assets or			
	Financial assets or liabilities measured at FVTPL	Financial assets or liabilities designated at FVTPL	Fin	ember 31, 2020 ancial assets or ilities measured at FVOCI		Measured at amortized cost	Total
Financial assets:	liabilities measured at FVTPL	liabilities designated at FVTPL	Finab	ancial assets or ilities measured		amortized cost	
Cash and due from banks Financial assets	liabilities measured at FVTPL	liabilities designated	Fin	ancial assets or ilities measured	₩	amortized cost	W 2,222,507,308
Cash and due from banks Financial assets measured at FVTPL	liabilities measured at FVTPL ₩ - 24,296,316,061	liabilities designated at FVTPL	Finab	ancial assets or ilities measured		amortized cost	₩ 2,222,507,308 24,296,316,061
Cash and due from banks Financial assets measured at FVTPL Derivative assets	liabilities measured at FVTPL	liabilities designated at FVTPL	Finab	ancial assets or ilities measured		amortized cost	W 2,222,507,308
Cash and due from banks Financial assets measured at FVTPL	liabilities measured at FVTPL ₩ - 24,296,316,061	liabilities designated at FVTPL	Finab	ancial assets or ilities measured		amortized cost	₩ 2,222,507,308 24,296,316,061
Cash and due from banks Financial assets measured at FVTPL Derivative assets Financial assets Measured at FVOCI Loans	liabilities measured at FVTPL ₩ - 24,296,316,061	liabilities designated at FVTPL	Finab	ancial assets or ilities measured at FVOCI		2,222,507,308 - - - 11,177,655,377	₩ 2,222,507,308 24,296,316,061 443,925,480 648,920,063 11,177,655,377
Cash and due from banks Financial assets measured at FVTPL Derivative assets Financial assets Measured at FVOCI Loans Finance lease receivables	liabilities measured at FVTPL ₩ - 24,296,316,061	liabilities designated at FVTPL	Finab	ancial assets or ilities measured at FVOCI		2,222,507,308	₩ 2,222,507,308 24,296,316,061 443,925,480 648,920,063 11,177,655,377 908,347,382
Cash and due from banks Financial assets measured at FVTPL Derivative assets Financial assets Measured at FVOCI Loans	Liabilities measured	liabilities designated at FVTPL	Finaliab	ancial assets or ilities measured at FVOCI 648,920,063	₩	2,222,507,308 11,177,655,377 908,347,382 1,684,006,959	₩ 2,222,507,308 24,296,316,061 443,925,480 648,920,063 11,177,655,377 908,347,382 1,684,006,959
Cash and due from banks Financial assets measured at FVTPL Derivative assets Financial assets Measured at FVOCI Loans Finance lease receivables Other financial assets	liabilities measured at FVTPL ₩ - 24,296,316,061	liabilities designated at FVTPL	Finab	ancial assets or ilities measured at FVOCI		2,222,507,308	₩ 2,222,507,308 24,296,316,061 443,925,480 648,920,063 11,177,655,377 908,347,382
Cash and due from banks Financial assets measured at FVTPL Derivative assets Financial assets Measured at FVOCI Loans Finance lease receivables Other financial assets Financial liabilities: Deposits	Liabilities measured	liabilities designated at FVTPL	Finaliab	ancial assets or ilities measured at FVOCI 648,920,063	₩	2,222,507,308 11,177,655,377 908,347,382 1,684,006,959	₩ 2,222,507,308 24,296,316,061 443,925,480 648,920,063 11,177,655,377 908,347,382 1,684,006,959 ₩ 41,381,678,630
Cash and due from banks Financial assets measured at FVTPL Derivative assets Financial assets Measured at FVOCI Loans Finance lease receivables Other financial assets Financial liabilities:	Liabilities measured at FVTPL	History designated at FVTPL	Finiliab	ancial assets or ilities measured at FVOCI 648,920,063	W	2,222,507,308 2,222,507,308	₩ 2,222,507,308 24,296,316,061 443,925,480 648,920,063 11,177,655,377 908,347,382 1,684,006,959 ₩ 41,381,678,630
Cash and due from banks Financial assets measured at FVTPL Derivative assets Financial assets Measured at FVOCI Loans Finance lease receivables Other financial assets Financial liabilities: Deposits Financial liabilities measured at FVTPL Derivative liabilities	Liabilities measured at FVTPL	History designated at FVTPL	Finiliab	ancial assets or ilities measured at FVOCI 648,920,063	W	2,222,507,308 2,222,507,308	₩ 2,222,507,308 24,296,316,061 443,925,480 648,920,063 11,177,655,377 908,347,382 1,684,006,959 ₩ 41,381,678,630 ₩ 1,954,874,966
Cash and due from banks Financial assets measured at FVTPL Derivative assets Financial assets Measured at FVOCI Loans Finance lease receivables Other financial assets Financial liabilities: Deposits Financial liabilities measured at FVTPL	Liabilities measured at FVTPL	History designated at FVTPL	Finiliab	ancial assets or ilities measured at FVOCI 648,920,063	W	2,222,507,308 2,222,507,308	₩ 2,222,507,308 24,296,316,061 443,925,480 648,920,063 11,177,655,377 908,347,382 1,684,006,959 ₩ 41,381,678,630 ₩ 1,954,874,966 4,322,265,280
Cash and due from banks Financial assets measured at FVTPL Derivative assets Financial assets Measured at FVOCI Loans Finance lease receivables Other financial assets Financial liabilities: Deposits Financial liabilities measured at FVTPL Derivative liabilities Financial liabilities designated at FVTPL Borrowings	Liabilities measured at FVTPL	History designated at FVTPL	Finiliab	ancial assets or ilities measured at FVOCI 648,920,063	W	2,222,507,308 2,222,507,308	₩ 2,222,507,308 24,296,316,061 443,925,480 648,920,063 11,177,655,377 908,347,382 1,684,006,959 ₩ 41,381,678,630 ₩ 1,954,874,966 4,322,265,280 283,308,289 3,244,187,074 18,170,871,466
Cash and due from banks Financial assets measured at FVTPL Derivative assets Financial assets Measured at FVOCI Loans Finance lease receivables Other financial assets Financial liabilities: Deposits Financial liabilities measured at FVTPL Derivative liabilities financial liabilities designated at FVTPL Borrowings Bonds	Liabilities measured at FVTPL	History designated at FVTPL	Finiliab	ancial assets or ilities measured at FVOCI 648,920,063	W	2,222,507,308 2,222,507,308	₩ 2,222,507,308 24,296,316,061 443,925,480 648,920,063 11,177,655,377 908,347,382 1,684,006,959 ₩ 41,381,678,630 ₩ 1,954,874,966 4,322,265,280 283,308,289 3,244,187,074 18,170,871,466 8,303,873,308
Cash and due from banks Financial assets measured at FVTPL Derivative assets Financial assets Measured at FVOCI Loans Finance lease receivables Other financial assets Financial liabilities: Deposits Financial liabilities measured at FVTPL Derivative liabilities Financial liabilities designated at FVTPL Borrowings	Liabilities measured at FVTPL	## - ## - ## - ## - ## - ## - ## - ## - ## - ## - ## - ## - ## - ## - ## - 3,244,187,074 -	Fin. liab ₩	ancial assets or ilities measured at FVOCI - 648,920,063 - 648,920,063	W	2,222,507,308 2,222,507,308	₩ 2,222,507,308 24,296,316,061 443,925,480 648,920,063 11,177,655,377 908,347,382 1,684,006,959 ₩ 41,381,678,630 ₩ 1,954,874,966 4,322,265,280 283,308,289 3,244,187,074 18,170,871,466

44. Fair value of financial assets and liabilities

44.1.1. Fair values classification and measurement

Fair value means a price that a market participant receives by selling an asset or pays by transferring a liability in an ordinary transaction on the date of transaction. Fair value measurement estimates the price in the ordinary transaction between the market participants, who sell the asset and transfer the liability, at an active market on the date of transaction. The Group calculates the fair values of assets/liabilities by making the best use of market values and making the least use of inputs that are not based on the observable market data.

The Group classifies fair value measurements of financial assets or liabilities by reference to the source of inputs used to derive the fair values. The classification is as follows:

	Details
(Level 1)	In case assets or liabilities are measured by quoted prices (unadjusted) in active markets,
	fair value of the assets or liabilities is classified as Level 1. The assets of liabilities
	classified as Level 1 include stock transacted in KRX, ETF, listed option, stock warrant,
	stock transacted in foreign, etc.
(Level 2)	In case assets or liabilities are measured by valuation techniques and all significant inputs
	are based on the observable market data, fair value of the assets or liabilities is classified
	as Level 2. The assets of liabilities classified as Level 2 include bond, interest rate swap,
	foreign exchange forward, etc.
(Level 3)	In case assets or liabilities are measured by valuation techniques and all significant inputs
	are based on the no observable market data, fair value of the assets or liabilities is
	classified as Level 3. The assets of liabilities classified as Level 3 include unlisted stock,
	option related over-the-counter securities, DLS, separate deposit from investors, etc.

The Group calculates the fair values of assets/liabilities by using an internal valuation model or receives fair market values assessed by independent external appraisers.

44.1.2. Details of the carrying amount and fair value of financial instruments as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		December 31, 2021										
				Fair v	alue							
		Level 1		Level 2	Level 3		Total					
Financial assets: Financial assets measured at FVTPL:												
Equity securities	₩	1,410,317,586	₩	-	₩ 154,026,472	₩	1,564,344,058					
Debt securities		-		19,242,203,621	-		19,242,203,621					
Collective investment securities		1,442,791,128		42,356,330	65,400,484		1,550,547,942					
Loans		-		-	1,411,631,752		1,411,631,752					
Others (*4)		3,509,825		450,811,360	2,442,618,263		2,896,939,448					
Derivative assets Financial assets measured at FVOCI:		113,035,596		178,510,898	25,130,869		316,677,363					
Equity securities		-		-	309,740,475		309,740,475					
Debt securities		_		2,933,257,793			2,933,257,793					
	₩	2,969,654,135	₩	22,847,140,002	₩ 4,408,548,315	₩	30,225,342,452					
Financial liabilities: Financial liabilities measured at FVTPL												
Equity securities	₩	1,632,201,235	₩	-	₩ -	₩	1,632,201,235					
Debt securities		-		2,576,371,737	-		2,576,371,737					
Others		51,238,000		-	-		51,238,000					
Derivative liabilities Financial liabilities designated		233,796,810		167,035,830	45,768,910		446,601,550					
at FVTPL		1,499,567		248,824,631	6,062,176,911		6,312,501,109					
	₩	1,918,735,612	₩	2,992,232,198	₩ 6,107,945,821	₩	11,018,913,631					

- (*1) There was no transfer between level 1 and level 2 in 2021. The Group recognizes a transfer at the end of the reporting period when an event or circumstance causing the transfer among fair value levels is incurred.
- (*2) The balance of financial instruments measured at costs since there was no quoted price of the same financial instrument in an active market or fair value was not reliably estimable, amounts to \$\pmu45,110,927\$ thousand (excluding reserve of collective fund for default loss). Of the financial instruments measured at cost for the year ended December 31, 2021, \$\pmu3,962,791\$ thousand of book value was derecognized, and \$\pmu1,651,254\$ thousand was recognized as a gain or loss on disposal.
- (*3) This is the amount including gains and losses on the first deferred day incurred in financial instruments with a level 3 fair value hierarchy.
- (*4) This includes the amount ₩139,036,231 thousand of derivative-linked securities with a level 3 fair value hierarchy.

44.1.2. Details of the carrying amount and fair value of financial instruments as of December 31, 2021 and 2020 are as follows (in thousands of Korean won) (cont'd):

				December	· 31	, 2020		
				Fair v	alue)		
		Level 1		Level 2		Level 3		Total
Financial assets: Financial assets measured at FVTPL:								
Equity securities	₩	801,378,919	₩	-	₩	102,275,902	₩	903,654,821
Debt securities		-		18,668,063,445		-		18,668,063,445
Collective investment securities		2,046,470,895		81,170,670		24,299,906		2,151,941,471
Loans		-		-		1,142,496,396		1,142,496,396
Others (*4)		-		48,925,439		1,381,234,489		1,430,159,928
Derivative assets Financial assets measured at FVOCI:		67,048,650		312,752,036		64,124,794		443,925,480
Equity securities		-		-		283,258,542		283,258,542
Debt securities		<u>-</u>		365,661,520		_		365,661,520
	₩	2,914,898,464	₩	19,476,573,110	₩	2,997,690,029	₩	25,389,161,603
Financial liabilities: Financial liabilities measured at FVTPL								
Equity securities	₩	1,149,663,213	₩	-	₩	-	₩	1,149,663,213
Debt securities		-		2,898,988,515		-		2,898,988,515
Others		273,613,552		-		-		273,613,552
Derivative liabilities Financial liabilities designated		83,577,270		245,356,197		(45,625,179)		283,308,288
at FVTPL				243,879,178		3,000,307,896	_	3,244,187,074
	₩	1,506,854,035	₩	3,388,223,890	₩	2,954,682,717	₩_	7,849,760,642

- (*1) There was no transfer between level 1 and level 2 in 2020. The Group recognizes a transfer at the end of the reporting period when an event or circumstance causing the transfer among fair value levels is incurred.
- (*2) The balance of financial instruments measured at costs since there was no quoted price of the same financial instrument in an active market or fair value was not reliably estimable, amounts to \(\pi\)39,342,843 thousand (excluding reserve of collective fund for default loss). Of the financial instruments measured at cost for the year ended December 31, 2020, \(\pi\)2,084,051 thousand of book value was derecognized, and \(\pi\)209,256 thousand was recognized as a gain or loss on disposal.
- (*3) This is the amount including gains and losses on the first deferred day incurred in financial instruments with a level 3 fair value hierarchy.
- (*4) This includes the amount $\uppsi{1}10,950,462$ thousand of derivative-linked securities with a level 3 fair value hierarchy.

44.2. Details of inputs used in fair value, valuation technique, and measurement of fair value classified into level 2 among financial assets and liabilities, currently measured at fair value as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	De	cember 31, 2021	De	ecember 31, 2020	Valuation technique	Inputs
Financial assets:						
Financial assets measured at						
FVTPL: Debt securities	₩	19,242,203,621	₩	18,668,063,445	DCF model	Discount rate,
Best edealines	**	10,212,200,021	**	10,000,000,110	DOI INICACI	interest rate
Collective investment securities		42,356,330		81,170,670	DCF model	Discount rate, interest rate
Others		450,811,360		48,925,439	DCF model	Discount rate, interest rate
Derivative assets		178,510,898		312,752,036	DCF model, etc.	Interest rate, exchange rate, stock price
Financial assets measure at FVOCI:						·
Debt securities		2,933,257,793		365,661,521	DCF model, etc.	Discount rate, interest rate
	₩	22,847,140,002	₩	19,476,573,111		
Financial liabilities: Financial liabilities measured at FVTPL:						
Debt securities	₩	2,576,371,737	₩	2,898,988,515	DCF model	Discount rate, interest rate
Derivative liabilities		167,035,830		245,356,197	DCF model	Discount rate, exchange rate, stock price
Financial liabilities designated at FVTPL		248,824,631		243,879,178	DCF model	Discount rate, interest rate
	₩	2,992,232,198	₩	3,388,223,890		

44.3.1. Changes in the fair value of level 3 financial assets and liabilities for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		Year ended December 31, 2021														
		Beginning balance				Profit/Loss	Other comprehensive income		Interlevel movement (*)		Purchase/ issuance		Disposal/ redemption		End	ing balance
Assets:																
Financial assets measure at FVTPL	₩	2,650,306,693	₩	116,954,083	₩	-	₩	(6,723,246)	₩	16,990,480,470	₩	(15,677,341,029) ₩	4,073,676,971		
Derivative assets Financial assets measured at FVOCI:		64,124,794		112,867,592		-		-		(73,174,920)		(78,686,598)	25,130,868		
Equity instrument		283,258,542		_		27,321,933		<u>-</u>				(840,000)	309,740,475		
	₩	2,997,690,029	₩	229,821,675	₩	27,321,933	₩	(6,723,246)	₩	16,917,305,550	₩	(15,756,867,627) ₩	4,408,548,314		
Liabilities: Derivative instruments Financial liabilities	₩	(45,625,179)	₩	(399,638,833)	₩	-	₩	-	₩	(322,483,693)	₩	14,238,949	9 ₩	45,768,910		
designated at FVTPL		3,000,307,896		37,453,796		(578,269)				7,763,043,674		(4,664,299,132)	6,062,176,911		
	₩	2,954,682,717	₩	(362,185,037)	₩	(578,269)	₩		₩	7,440,559,981	₩	(4,650,060,183) ₩	6,107,945,821		

^(*) There is no transfer to Level 3 of the fair value hierarchy in 2021, and it is the amount that has moved from Level 3 to Level 1 as unlisted stocks are listed. The Group recognizes changes in levels at the end of the reporting period in which events or changes in circumstances that result in a shift between levels of fair value have occurred.

44.3.1. Changes in the fair value of level 3 financial assets and liabilities for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won) (cont'd):

		Year ended December 31, 2020														
		Beginning balance				Profit/Loss	Other comprehensiv e income		Interlevel movement (*)		Purchase/ issuance		Disposal/ redemption		Ending balanc	
Assets: Financial assets measure at FVTPL	₩	1,708,268,880	₩	77,385,756	₩	-	₩	(159,995,421)	₩	13,621,345,875	₩	(12,596,698,397)	₩	2,650,306,693		
Derivative assets Financial assets measured at FVOCI:		57,823,220		81,954,484		-		-		45,108,043		(120,760,953)		64,124,794		
Equity instrument		215,192,692		-		51,288,329		-		16,777,521		-		283,258,542		
CMA		1,998,004		1,996								(2,000,000)		<u>-</u>		
	₩	1,983,282,796	₩	159,342,236	₩	51,288,329	₩	(159,995,421)	₩	13,683,231,439	₩	(12,719,459,350)	₩	2,997,690,029		
Liabilities: Derivative instruments Financial liabilities	₩	(121,854,229)	₩	(73,197,443)	₩	-	₩	: <u>-</u>	₩	21,476,412	₩	(18,444,805)	₩	(45,625,179)		
designated at FVTPL		4,154,309,211		(62,655,944)		735,202		-		4,849,601,869		(6,065,523,926)		3,000,307,896		
	₩	4,032,454,982	₩	(135,853,387)	₩	735,202	₩	_	₩	4,871,078,281	₩	(6,083,968,731)	₩	2,954,682,717		

^(*) There is no transfer to Level 3 of the fair value hierarchy in 2020, and it is the amount that has moved from Level 3 to Level 1 as unlisted stocks are listed. The Group recognizes changes in levels at the end of the reporting period in which events or changes in circumstances that result in a shift between levels of fair value have occurred.

44.3.2. Details of the changes in the fair value of the financial assets that were measured at fair value and classified as level 3 in fair value hierarchy, current profits or losses in 2021 and 2020 were recognized as follows (in thousands of Korean won):

		Decembe	r 31	,2021	December 31, 2020					
	Profit and loss for the current term			ain and loss on valuation		fit and loss for e current term	Gain and loss on valuation			
Assets:										
Financial assets measured at										
FVTPL	₩	116,954,083	₩	67,300,780	₩	77,385,756	₩	1,929,258		
Derivative instruments		112,867,592		88,838,870		81,954,484		17,190,667		
CMA				_		1,996				
		229,821,675		156,139,650		159,342,236		19,119,925		
Liabilities:										
Derivative instruments Financial liabilities designated		(399,638,833)		(332,665,986)		(73,197,443)		78,730,301		
at FVTPL		37,453,796		(1,840,501)		(62,655,944)		(112,180,709)		
		(362,185,037)		(334,506,487)		(135,853,387)		(33,450,408)		
	₩	(132,363,362)	₩	(178,366,837)	₩	23,488,849	₩	(14,330,483)		

44.3.3. Details of fair value, valuation technique, and inputs used to develop those measurements classified into level 3 assets and liabilities disclosure but not measured at fair value as of December 31, 2021 are as follows (in thousands of Korean won):

			Decer	nber 31, 2021	
	Fair value	Valuation technique	Inputs	Significant unobservable inputs	Sensitivity of the input to fair value Range
Financial assets: Financial assets measured at FVTPL	₩ 4,073,676,971	DCF, Monte-Carlo Simulation Cox, Ross and Rubinstein Model	Risk free rate, dividend rate, discount rate, default rate etc.	Recovery rate Volatility correlation	Fair value increased due to the increase in recovery rate Fair value increased or decreased due to the increase in volatility Fair value increased or decreased to the increase in correlation coefficient
Derivative assets	25,130,869	Binomial model, Black Scholes model, Monte-Carlo Simulation Reduced Form Model etc.	Risk free rate, dividend rate, discount rate, default rate	Volatility correlation	Fair value increased or decreased due to the increase in volatility Fair value increased or decreased to the increase in correlation coefficient
Financial assets designated at FVOCI	309,740,475 ₩ 4,408,548,315	DCF, Past deal method, Cost method	-	Growth rate Discount rate	Fair value increased due to the increase in growth rate Fair value decreased due to the increase in discount rate
Financial liabilities:	** +,+00,0+0,010				
Derivative liabilities	₩ 45,768,910	Binomial model Monte-Carlo Simulation, Hull&White 1 factor	Risk free rate, dividend rate, discount rate, stock price	Volatility correlation	Fair value increased or decreased due to the increase in volatility Fair value increased or decreased to the increase in correlation coefficient
Financial liabilities designated at FVTPL	6,062,176,911 <u>₩ 6,107,945,821</u>	Monte-Carlo Simulation, Reduced form, Hull&White 1 factor, Black-Scholes Model, etc.	Risk free rate, dividend rate, discount rate, default rate	Recovery rate Volatility Correlation	Fair value increased due to the increase in recovery rate Fair value increased or decreased due to the increase in volatility Fair value increased or decreased to the increase in correlation coefficient

44.3.4. Based on changes in fair values of financial assets according to changes in unobservable input variables by using statistics method, the sensitivity analysis of financial assets is conducted separately on favorable changes and unfavorable changes. If fair value is influenced by more than 2 input variables, the fair value is calculated on the basis of the most favorable or the most unfavorable amount. As of December 31, 2021, the result of sensitivity analysis according to changes in input variables by financial asset is as follows (in thousands of Korean won):

	Computation effect of volatility	Fav	orable change		Jnfavorable change
Assets:					
Financial assets measured at	Adjustment of 10% in unobservable	***		***	
FVTPL	inputs (volatility, recovery rate)	₩	17,807,532	₩	(16,537,463)
Derivative assets	Adjustment of 10% in unobservable				
	inputs (volatility, recovery rate)		5,801,406		(5,314,363)
Financial assets	Adjustment 1% of growth rate,				
designated at FVOCI	discount rate		21,261,045		(14,562,754)
			44,869,983		(36,414,580)
Liabilities:					, , , , , , , , , , , , , , , , , , , ,
Derivative instruments	Adjustment of 10% in unobservable				
	inputs (volatility, recovery rate)		42,752,186		(46,441,808)
Financial liabilities	Adjustment of 10% in unobservable		, - ,		(-, ,,
designated at FVTPL	inputs (volatility, recovery rate)		73,346,313		(78,094,247)
3	, ,		116,098,499		(124,536,055)
		₩	160.968.482	₩	(160,950,635)
			:::,300,:02		(111,100,000)

44.4.1. The hierarchical fair values of the financial assets, which were not measured at fair value but of which the fair values were disclosed, in the statements of financial position as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		December 31, 2021											
						Fa	air va	alue					
		Book value		Level 1		Level 2		Level 3		Total			
Financial assets:													
Cash and due from banks (*)	₩	3,817,859,155	₩	-	₩	3,817,859,155	₩	-	₩	3,817,859,155			
Loans		14,302,471,666		-		-		14,545,330,134		14,545,330,134			
Finance lease receivables		1,038,023,421		-		-		1,044,548,326		1,044,548,326			
Other financial assets (*)		2,005,481,859		-		-		2,005,481,859		2,005,481,859			
	₩	21,163,836,101	₩		₩	3,817,859,155	₩	17,595,360,319	₩	21,413,219,474			
Financial liabilities:													
Deposits (*)	₩	2,564,607,606	₩	-	₩	2,564,607,606	₩	-	₩	2,564,607,606			
Borrowings (*)		22,794,315,555		-		22,794,315,555		-		22,794,315,555			
Finance lease receivables		9,372,521,557		-		9,390,995,087		-		9,390,995,087			
Other financial liabilities (*)		2,587,476,873		-		-		2,587,476,873		2,587,476,873			
	₩	37,318,921,591	₩	-	₩	34,749,918,248	₩	2,587,476,873	₩	37,337,395,121			

(*) Book value was considered to be a reasonable approximation of fair value due to book value was disclosed as fair value.

as fair value.		December 31, 2020											
						Fa	air va	alue					
		Book value		Level 1		Level 2		Level 3		Total			
Financial assets:													
Cash and due from banks (*)	₩	2,222,507,308	₩	-	₩	2,222,507,308	₩	-	₩	2,222,507,308			
Loans		11,177,655,377		-		-		10,761,961,814		10,761,961,814			
Finance lease receivables		908,347,382		-		-		908,837,729		908,837,729			
Other financial assets (*)		1,684,006,959				<u>-</u>		1,684,006,959		1,684,006,959			
	₩	15,992,517,026	₩	-	₩	2,222,507,308	₩	13,354,806,502	₩	15,577,313,810			
Financial liabilities:													
Deposits (*)	₩	1,954,874,966	₩	-	₩	1,954,874,966	₩	-	₩	1,954,874,966			
Borrowings (*)		18,170,871,466		-		18,170,871,466		-		18,170,871,466			
Finance lease receivables		8,303,873,308		-		8,395,300,023		-		8,395,300,023			
Other financial liabilities (*)		2,423,133,560		-		-		2,423,133,560		2,423,133,560			
	₩	30,852,753,300	₩		₩	28,521,046,455	₩	2,423,133,560	₩	30,944,180,015			

(*) Book value was considered to be a reasonable approximation of fair value due to book value was disclosed as fair value.

44.4.2. The following valuation methods and input variables were applied to the financial assets classified as level 2 of the financial assets, which were not measured at fair value but of which the fair values were disclosed, in the statements of financial position as of December 31, 2021 and 2020 (in thousands of Korean won):

	December 31,		December 31,	Valuation	Input	
	2021		2020	method	variables	
Financial liabilities: Debentures	₩	9,390,995,087	₩ 8,395,300,023	DCF method	Discount rate	

44.4.3. The following valuation methods, input variables and unobservable input were applied to the financial assets classified as level 3 of the financial assets, which were not measured at fair value but of which the fair values were disclosed, in the statements of financial position as of December 31, 2021 and 2020 (in thousands of Korean won):

	December 31, 2021	December 31, 2020	Valuation method	Input variable	Unobservable input variable
Financial assets					
Loans	₩ 14,545,330,134	₩ 10,761,961,814	DCF method	Discount rate	Credit risk
Lease assets	1,044,548,326	908,837,729	DCF method	Discount rate	Credit risk
	₩ 15,589,878,460	₩ 11,670,799,543	- -		

45. Offsetting of financial assets and liabilities

Details of financial assets subject to offsetting, enforceable master netting arrangements and similar agreements as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	December 31, 2021											
	Gr	recogniz		oss amounts of recognized financial	Met amounts of financial assets et off presented in the ent of statement of		Related amounts not set off in the statement of financial position (*2) Financial assets					
	O.	recognized financial instruments	instruments set off in the statement of financial position				recognized in the statement of financial position		Cash collateral received		Net amount	
Assets									_			
Derivatives (*1)	₩	393,822,282	₩	-	₩	393,822,282	₩	(134,931,255)	₩	(54,779,464)	₩	204,111,563
Loans												
Repurchase agreement		2,378,085,062		-		2,378,085,062		_		(2,378,085,062)		-
Other assets												
Receivable spot exchange		793,188,560		_		793,188,560		(792,774,542)		_		414,018
Difference of uncollected		4,620,991		(4,620,951)		40		-		-		40
Receivable from												
proprietary trading		800,953,661		(276,365,031)		524,588,630		-		-		524,588,630
Receivable from trading on consignment		942,233,099		(597,129,300)		345,103,799		_		_		345,103,799
.	₩	5,312,903,655	₩	(878,115,282)	₩	4,434,788,373	₩	(927,705,797)	₩	(2,432,864,526)	₩	1,074,218,050
Liabilities:				· ·								
Derivatives (*1)	₩	923.251.306	₩	_	₩	923.251.306	₩	(134,931,255)	₩	(356,497,087)	₩	431,822,964
Securities sold		4,259,810,972		-		4,259,810,972		(101,001,200)		(4,259,810,972)		-
Borrowings										, , , , , , , , , , , , , , , , , , , ,		
Repurchase agreement		15,271,970,367		-		15,271,970,367		-		(15,271,970,367)		-
Other liabilities												
Payable spot exchange		792,990,943		-		792,990,943		(792,774,542)		-		216,401
Difference of unsettled		7,652,393		(4,620,951)		3,031,442		-		-		3,031,442
Accounts payable for proprietary trading Accounts payable for		392,069,284		(276,365,031)		115,704,253		-		-		115,704,253
trading on consignment		939,168,971		(597,129,300)		342,039,671						342,039,671
	₩	22,586,914,236	₩	(878,115,282)	₩	21,708,798,954	₩	(927,705,797)	₩	(19,888,278,426)	₩	892,814,731

^(*1) Derivative assets and derivative liabilities correspond to the amount before considering the credit risk adjustment and the deferred initial transaction date profit and loss adjustment.

^(*2) The rights to offset exist only in case of default and others. Accordingly, the amounts are not offset in the statement of financial position as they do not meet the criteria for offsetting.

45. Offsetting of financial assets and liabilities (cont'd)

Details of financial assets subject to offsetting, enforceable master netting arrangements and similar agreements as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	_		Gr	ross amounts of recognized		let amounts of		Related amounts statement of final					
	Gr	oss amounts of recognized financial instruments	in t	financial instruments set off in the statement of financial position		nancial assets resented in the statement of nancial position	rec	nancial assets cognized in the statement of ancial position	(Cash collateral received		Net amount	
Assets						<u> </u>		<u> </u>					
Derivatives (*1)	₩	429,689,890	₩	-	₩	429,689,890	₩	(174,497,909)	₩	(99,123,655)	₩	156,068,326	
Loans													
Repurchase agreement		2,133,333,578		-		2,133,333,578		-		(2,133,333,578)		-	
Other assets													
Receivable spot		704 040 005				704 040 005		(704 000 055)				000.050	
exchange Difference of uncollected		791,249,005 7.021.061		- (7,021,021)		791,249,005 40		(791,026,655)		-		222,350 40	
Receivable from		7,021,001		(7,021,021)		40		<u>-</u>		_		40	
proprietary trading		714,145,885		(432,736,404)		281,409,481		-		-		281,409,481	
Receivable from trading													
on consignment		1,115,506,290		(737,246,064)		378,260,226		-				378,260,226	
	₩	5,190,945,709	₩	(1,177,003,489)	₩	4,013,942,220	₩	(965,524,564)	₩	(2,232,457,233)	₩	815,960,423	
Liabilities:													
Derivatives (*1)	₩	734,301,766	₩	-	₩	734,301,766	₩	(174,497,909)	₩	(385,323,699)	₩	174,480,158	
Securities sold		4,322,265,280		-		4,322,265,280		-		(4,322,265,280)		-	
Borrowings													
Repurchase agreement		13,653,220,858		-		13,653,220,858		-		(13,653,220,858)		-	
Other liabilities													
Payable spot exchange		791,213,106		<u>.</u>		791,213,106		(791,026,655)		-		186,451	
Difference of unsettled Accounts payable for		10,590,463		(7,021,021)		3,569,442		-		-		3,569,442	
proprietary trading		620,581,872		(432,736,404)		187,845,468		_		_		187,845,468	
Accounts payable for		1=1,001,012		(112,100,101)		111,010,100						, 5 , 100	
trading on consignment		1,114,305,430		(737,246,064)		377,059,366		<u>-</u>		-		377,059,366	
	₩	21,246,478,775	₩	(1,177,003,489)	₩	20,069,475,286	₩	(965,524,564)	₩	(18,360,809,837)	₩	743,140,885	

^(*1) Derivative assets and derivative liabilities correspond to the amount before considering the credit risk adjustment and the deferred initial transaction date profit and loss adjustment.

46. Deferred day 1 profit or loss

Changes in deferred day 1 profit or loss, for the years ended December 31, 2021 and 2020 are as follows (in thousands of Korean won):

	Y	ear ended Dec	emb	er 31, 2021	Year ended December 31, 2020					
		Assets		Liabilities						
Beginning	₩	(17,983,628)	₩	60,647,813	₩	5,373,224	₩	17,837,177		
Increase		136,523,327		82,700,420		(9,312,527)		77,137,669		
Decrease		(38,863,858)		(82,010,261)		(14,044,325)		(34,327,033)		
Ending	₩	79,675,841	₩	61,337,972	₩	(17,983,628)	₩	60,647,813		

^(*2) The rights to offset exist only in case of default and others. Accordingly, the amounts are not offset in the statement of financial position as they do not meet the criteria for offsetting.

47. Risk management

The Group is exposed to credit risk, liquidity risk, market risk and operational risk of its financial instruments. Risk management is the basic activities to effectively use the Group's limited capital under the rapidly changing financial circumstances. The ultimate goal of risk management is to maximize the Group's shareholder value while minimizing the sudden fluctuation of its income through a proper balance between risks and returns.

The basic policies for managing risk are as follows:

- (i) Set the limits and comply with them for each risk, and strike a balance between risk and return.
- (ii) When a conflict exists between risk and return, the Group should seek to increase return withoutexceeding the risk limits.
- (iii) Spread the risks to prevent them from being concentrated in specific areas.
- (iv) Analyze the effect of various market fluctuations on parts of or entire portfolio on a regular basis.
- (v) Separate risk management segment, operating segment, and segment that deals with tradeconfirmation and payments to maintain independence from one another.

Risk management committee is responsible for setting maximum permissible limits for each risk, and the risk management conference is responsible for checking compliance with the limit and the risk levels.

Risk management committee is the top decision-making body within the Board of Directors for risk management. Through risk management committee, the Group establishes the control system of risk management from top management to operating segment. However, risk management conference is a subordinate committee for risk management and practices risk management by business unit in detail.

Risk management center consists of risk management team and credit risk analysis team. Risk management team manages market risk, liquidity risk, operational risk and capital and credit risk analysis team to perform credit risk analysis of counterparties and assessment on loan contracts. Risk management center deals with monitoring of risk position, risk measurement, identification of assets exposed to risk and forecasting change of risk position.

47.1. Credit risk

Credit risk is the risk that the Group will incur a loss because its customers or counterparties fail to discharge their contractual obligations. Credit risk arises from on-balance and off-balance accounts including loans, financial guarantees, securities and derivatives. The purpose to manage the credit risk is to control the relevant losses upon the counterparties' default, for a certain period, within the allowable range.

Credit risk management is performed by the risk management committee and judging committee, risk management conference and credit risk management department which is a subordinate organization of the risk management center.

Risk management committee establishes risk management strategy through the periodical report on asset management and portfolio construction. Judging committee is delegated to deal with all the matters. Credit risk management department, which is separated from operating segments, manages the overall credit risk of the Group and operates the credit risk management system.

47.1.1. Credit risk management

47.1.1.1. Loans

Performing comprehensive analysis on economic environments and changes, the Group reduces credit concentration by setting credit limits on same counterparties to ensure asset quality.

The Group measures and manages risk indicators of each operating segment. Also, the Group regularly examines the counterparties whose credit ratings are likely to be degraded.

As to large credit, the Group examines the customer's credit and adequacy of credit evaluation as part of the subsequent management process. In addition, the Group conducts focused examinations on industries or groups with increasing credit risks and performs sample inspections on small loans.

47.1.1.2. Debt securities

The Group controls credit exposure of debt securities through either the agencies' ratings of creditworthiness or its own rating. The debt securities are held as a means of maintaining resources in order to keep high credit rating as well as to meet the demands of financing.

47.1.2. Risk reduction policy

47.1.2.1. Collateral

The Group manages various policies and practices so as to reduce credit risks. Acquisition of collateral on loans is conventional method to reduce credit, and collaterals for secured loans are mainly deposits and financial instruments such as debt securities or equity securities. Collaterals on financial assets other than loans are decided by the attributes of the financial instruments. Debt securities are usually unsecured; asset backed securities or other similar instruments are secured by financial instrument portfolio.

47.1.2.2. Derivatives

Considering the notional exposure, the amount exposed to credit risk remains within small limits. Credit exposure is managed and controlled through limiting the counterparty risks such as latent exposure to market fluctuations.

47.1.2.3. Master netting arrangement

The Group limits credit exposure by entering into a 'master netting agreement' with the counterparties in the high volume trading. Generally such an agreement is settled by gross, and therefore assets and liabilities related to it are not offset in the financial statements of position. However, in case the remaining contracts are settled net at the end because default occurs, credit risk related to profitable contracts decreases. Due to the impact of individual trades, total credit exposure can vary substantially in the short term.

47.1.3. Maximum exposure to credit risk

The maximum exposure to credit risk as of December 31, 2021 and 2020 are as follows. The Group does not consider risk reduction obtained by collaterals or other. Equity securities are excluded in financial assets measured at FVTPL and Financial assets measured at FVOCI (in thousands of Korean won):

	Dec	cember 31, 2021	December 31, 2020				
On balance accounts:							
Cash and due from banks	₩	3,817,859,156	₩	2,222,507,308			
Financial assets measured at FVTPL		22,312,193,406		20,217,161,681			
Derivative instruments		264,016,055		318,069,491			
Financial assets measured at FVOCI		2,933,257,793		365,661,520			
Loans		14,476,581,603		11,382,966,549			
Lease assets		1,043,577,708		916,018,540			
Other financial assets		2,020,182,594		1,694,567,292			
	₩	46,867,668,315	₩	37,116,952,381			
Off balance accounts(*)							
Commitments on loans	₩	2,993,935,946	₩	3,170,329,443			
Payment guarantee		19,271,997		-			
ABCP Purchase agreement		39,215,254		<u> </u>			
	₩	3,052,423,197	₩	3,170,329,443			

^(*) The amounts provided to the same counterparty for two or more contracts have been excluded.

47.1.4. Credit risk exposure

47.1.4.1. Gross book values of loans, finance lease assets, and other financial assets measured under the expected credit losses measurement method by internal credit rating are as follows (in thousands of Korean won):

	December 31, 2021												
	·				lm	paired loans							
		nonth expected		time expected		time expected							
		redit losses	C	redit losses	c	redit losses		Total					
Loans:													
AAA	₩	214,788,000	₩	-	₩	-	₩	214,788,000					
AA- to AA+		194,522,000		-		-		194,522,000					
A-To A+		2,124,245,185		-		-		2,124,245,185					
BBB- to BBB+		5,572,049,794		176,287,910		55,809,226		5,804,146,930					
BB- to BB+		128,271,419		37,955,245		85,043,774		251,270,438					
B- to B+		-		-		269,397,687		269,397,687					
Unrated		5,358,472,176		196,064,275		63,674,912		5,618,211,363					
		13,592,348,574		410,307,430		473,925,599		14,476,581,603					
Lease													
Unrated		843,041,498		197,672,411		2,863,799		1,043,577,708					
Other financial assets (*)													
Unrated		1,996,185,389		12,467,623		11,529,582		2,020,182,594					
	₩	16,431,575,461	₩	620,447,464	₩	488,318,980	₩	17,540,341,905					

^(*) Other assets which did not meet the definition of accounts receivables were excluded.

47.1.4.1. Gross book values of loans, finance lease assets, and other financial assets measured under the expected credit losses measurement method by internal credit rating are as follows (in thousands of Korean won) (cont'd):

	December 31, 2020												
						paired loans							
		nonth expected		ime expected		time expected							
	credit losses			edit losses	C	redit losses		Total					
Loans:													
AAA	₩	188,200,000	₩	-	₩	-	₩	188,200,000					
AA- to AA+		512,630,338		-		-		512,630,338					
A-To A+		2,173,972,667		20,789,360		-		2,194,762,027					
BBB- to BBB+		3,595,846,416		62,142,571		-		3,657,988,987					
BB- to BB+		108,742,176		30,263,653		59,571,000		198,576,829					
B- to B+		-		-		247,427,781		247,427,781					
Unrated		4,040,698,518		246,301,847		96,380,222		4,383,380,587					
		10,620,090,115		359,497,431		403,379,003		11,382,966,549					
Lease													
Unrated		732,589,004		177,239,480		6,190,056		916,018,540					
Other financial assets (*)													
Unrated		1,681,662,346		5,447,010		7,457,936		1,694,567,292					
	₩	13,034,341,465	₩	542,183,921	₩	417,026,995	₩	13,993,552,381					

^(*) Other assets which did not meet the definition of accounts receivables were excluded.

47.1.4.2. Off-balance accounts exposure measured under the expected credit losses measurement method classified by internal credit rating is as follows (in thousands of Korean won):

	December 31, 2021												
						paired loans							
		month expected		ime expected		ime expected							
	credit losses			edit losses	CI	redit losses		Total					
Commitments on loans:													
AA- to AA+	₩	30,000,000	₩	-	₩	-	₩	30,000,000					
A-To A+		1,211,773,457		-		-		1,211,773,457					
BBB- to BBB+		1,710,848,492		19,121,000		-		1,729,969,492					
BB- to BB+		21,896,897		296,100		-		22,192,997					
Unrated		_		_		19,271,997		19,271,997					
		2,974,518,846		19,417,100		19,271,997		3,013,207,943					
ABCP Purchase agreement :													
AA- to AA+		5,000,000		-		-		5,000,000					
BB- to BB+		34,215,254		_				34,215,254					
		39,215,254						39,215,254					
	₩	3,013,734,100	₩	19,417,100	₩	19,271,997	₩	3,052,423,197					

47.1.4.2. Off-balance accounts exposure measured under the expected credit losses measurement method classified by internal credit rating is as follows (in thousands of Korean won) (cont'd):

				Decembe	er 31, 2020		
					Impaired loans		
	12 month expected credit losses			etime expected credit losses	Lifetime expected credit losses		Total
Commitments on loans:							
AAA	₩	27,820,288	₩	-	₩ -	₩	27,820,288
AA- to AA+		22,500,000		-	-		22,500,000
A-To A+		1,534,433,912		-	-		1,534,433,912
BBB- to BBB+		1,513,779,311		68,204,833	-		1,581,984,144
BB- to BB+		1,253,470		2,337,629			3,591,099
	₩	3,099,786,981	₩	70,542,462	₩ -	₩	3,170,329,443

47.1.4.3. Debt securities measured at FVOCI which measured under the expected credit losses measurement method classified by internal credit rating is as follows (in thousands of Korean won):

				Decemb	er 31, 2021		
		month expected credit losses	Lifetime e	•	Impaired loans Lifetime expected credit losses	t 	Total
Public bonds and financial bonds	₩	1,858,057,710	₩	_	₩	- ₩	1,858,057,710
AAA		1,075,200,083		_		_	1,075,200,083
	₩	2,933,257,793	₩	-	₩	- ₩	2,933,257,793
		nonth expected credit losses	Lifetime e		Lifetime expected credit losses	t 	Total
AAA	₩	310,661,661	₩	-	₩	- ₩	310,661,661
AA- to AA+		35,044,460		-		-	35,044,460
A-To A+		19,955,399		-		_	19,955,399

47.1.5. Details of the credit soundness of due from banks and debt securities as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		December 31, 2021	December 31, 2020			
Bonds:						
Government, public and specific bonds	₩	10,108,605,326	₩	13,053,893,574		
AAA		5,764,238,829		4,783,968,366		
AA- to AA+		552,299,423		340,916,067		
A- to A+		185,651,299		103,533,039		
Less A-		548,723,083		141,394,896		
Unrated		44,787,129		8,858,265		
		17,204,305,089		18,432,564,207		
CP:						
A1		2,009,704,171		228,094,374		
A2 to A3		28,194,360		7,404,863		
		2,037,898,531		235,499,237		
Loans and notes discounted :						
AAA		219,528		-		
AA- to AA+		59,911,272		8,408,019		
A- to A+		455,981,630		319,058,334		
BBB- to BBB+		815,334,607		651,445,136		
BB- to BB+		32,289,280		109,938,224		
Unrated		49,102,746		58,061,692		
		1,412,839,063		1,146,911,405		
Hybrid financial instruments, etc:						
AAA		40,196,160				
AA- to AA+		465,014,523		191,028,615		
A- to A+		64,133,916		45,779,994		
BBB- to BBB+		50,455,712		20,120,784		
BB- to BB+ B- to B+		1,910,603 12,512,244		- 247,382		
Under CCC		3,541,666		247,302		
Unrated		1,019,385,899		- 145,010,057		
Officied		1,657,150,723		402,186,832		
	₩	22,312,193,406	₩	20,217,161,681		
		22,012,100,100				

^(*) The Group surveyed the credit soundness of debt securities in financial assets. In case of other financial assets, credit risk is not taken into consideration or the rating of credit soundness cannot be calculated due to their nature of business.

47.1.6. Details of industrial credit exposure classified by Korean Standard Industrial Classification as of December 31, 2021 and 2020 consist of the following (in thousands of Korean won):

		Finance and insurance	N	lanufacturing	W	/holesale and retailing		Construction		Others		Total		
Cash and due from banks Financial assets	₩	3,817,859,156	₩	-	₩	-	₩	-	₩	-	₩	3,817,859,156		
measured at FVTPL (*) Derivative instrument		9,263,534,874		901,482,118		49,260,056		27,891,851		12,070,024,507		22,312,193,406		
assets (*) Financial assets		264,016,055		-		-		-		-		264,016,055		
measured at FVOCI (*)		1,972,379,901		-		-		-		960,877,892		2,933,257,793		
Loans		6,138,955,898		160,669,398		218,576,737		643,061,714		7,315,317,856		14,476,581,603		
Lease assets		72,267,051		37,202,153		83,751,323		16,803,063		833,554,118		1,043,577,708		
Other financial assets		1,321,559,265		772,124		1,336,008		1,165,788		695,349,409		2,020,182,594		
	₩	22,850,572,200	₩	1,100,125,793	₩	352,924,124	₩	688,922,416	₩	21,875,123,782	₩	46,867,668,315		

47.1.6. Details of industrial credit exposure classified by Korean Standard Industrial Classification as of December 31, 2021 and 2020 consist of the following (in thousands of Korean won) (cont'd):

- (*) The Group excluded financial assets below, since they had no significant credit risk.
 - Financial assets held-for-trading: Stocks and collective investment securities
 - Financial assets designated at fair value through profit and loss: Reserve for claims of customers' deposits (trust)
 - Financial assets available-for-sale: Stocks, collective investment securities, foreign currency securities and others
 - · Derivative financial assets: Options purchased of stock

		December 31, 2020													
		Finance and insurance	N	lanufacturing	V	/holesale and retailing		Construction		Others		Total			
Cash and due from banks Financial assets	₩	2,222,507,308	₩	-	₩	-	₩	-	₩	-	₩	2,222,507,308			
measured at FVTPL (*) Derivative instrument		5,991,515,264		128,844,054		12,880,480		29,770,506		14,054,151,377		20,217,161,681			
assets (*) Financial assets		318,069,491		-		-		-		-		318,069,491			
measured at FVOCI (*)		365,661,520		-		-		-		-		365,661,520			
Loans		4,266,676,052		298,864,756		97,762,588		787,101,424		5,932,561,729		11,382,966,549			
Lease assets		59,925,738		40,294,604		84,151,068		16,144,173		715,502,957		916,018,540			
Other financial assets		1,072,658,526								621,908,766		1,694,567,292			
	₩	14,297,013,899	₩	468,003,414	₩	194,794,136	₩	833,016,103	₩	21,324,124,829	₩	37,116,952,381			

- (*) The Group excluded financial assets below, since they had no significant credit risk.
 - Financial assets held-for-trading: Stocks and collective investment securities
 - Financial assets designated at fair value through profit and loss: Reserve for claims of customers' deposits (trust)
 - Financial assets available-for-sale: Stocks, collective investment securities, foreign currency securities and others
 - Derivative financial assets: Options purchased of stock

47.2. Liquidity risk

47.2.1. Procedures of the liquidity risk management

The Group defines liquidity risk as the possibility of incurring losses due to a temporary shortage in funds caused by a maturity mismatch or an unexpected capital outlay. Liquidity risk soars when funding rates rise, or assets are sold below a normal price, or a good investment opportunity is missed. 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 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 statements of financial position.

The Group's principles of the liquidity risk management are as follows:

- > Set up and comply with tolerable limits to liquidity risk.
- Prepare insufficient liquidity by forecasting cash requirements regularly.
- Establish an emergency plan against a liquidity crisis to prepare for an unexpected liquidity risk.
- > Evaluate and manage the effect of a large amount of money that is loaned out, invested, or procured on liquidity risks.

47.2.2. The residual maturity of non-derivative financial instruments as of December 31, 2021 and 2020 consists of the following (in thousands of Korean won):

_	December 31, 2021																							
				After 1 week ~	-	√fter 1 month~		fter 3 months~		fter 6 months~														
			bι					but no later than								ut no later than	bı	ut no later than	bι	ıt no later than				
<u>-</u>		Within 1 week		1 month		3 months		6 months		1 year		After 1 year		Total										
Assets:																								
Cacil and add nom banks	₩	2,298,917,566	₩	-	₩	40,000,000	₩	200,000,000	₩	150,000,000	₩	1,128,941,590	₩	3,817,859,156										
Financial assets measured at																								
FVTPL		11,300,909,114		1,910,686,111		397,995,692		805,270,435		201,576,986		7,695,755,068		22,312,193,406										
Financial assets measured at																								
FVOCI		1,494,740,167		518,301,558		-		-				920,216,068		2,933,257,793										
Loans (*1)		2,160,948,572		861,671,356		934,512,154		934,841,923		3,699,182,141		5,885,425,457		14,476,581,603										
Lease assets		2,177,018		4,320,927		12,945,795		29,222,032		66,355,775		928,556,161		1,043,577,708										
Other financial assets (*2)		1,676,766,631		25,015,841		256,762,319		8,817,479		12,932,293		39,888,031		2,020,182,594										
: -	₩	18,934,459,068	₩	3,319,995,793	₩	1,642,215,960	₩	1,978,151,869	₩	4,130,047,195	₩	16,598,782,375	₩	46,603,652,260										
Liabilities:																								
Deposits (*2)	₩	2,397,016,407	₩	-	₩	-	₩	64,291,408	₩	90,416,342	₩	12,883,449	₩	2,564,607,606										
Financial liabilities held-for-																								
trading		26,476,013		170,090,603		85,429,948		296,579,049		2,068,470,332		1,612,765,028		4,259,810,973										
Financial liabilities																								
designated at fair value																								
through profit or loss (*3)		-		282,814,071		596,024,797		53,906,392		2,140,130,744		2,976,526,413		6,049,402,417										
Borrowings		9,347,608,968		3,427,727,694		921,370,750		926,654,298		4,303,773,788		3,867,180,057		22,794,315,555										
Debentures		70,000,000		1,035,490,000		1,903,070,000		1,088,000,000		950,000,000		4,334,000,000		9,380,560,000										
Lease liabilities (*2)		-		526,329		1,639,177		498,008		7,973,712		22,934,178		33,571,404										
Other financial liabilities		1,315,483,934		23,936,927		186,419,997		15,001,757		419,598,536		609,559,506		2,570,000,657										
	₩	13,156,585,322	₩	4,940,585,624	₩	3,693,954,669	₩	2,444,930,912	₩	9,980,363,454	₩	13,435,848,631	₩	47,652,268,612										

^(*1) Deferred loan fees and present value discounts are excluded from loans.

^(*2) Present value discounts of other financial assets, lease liabilities and deposits are excluded.

^(*3) The credit risk assessment adjustment for financial liabilities designated at fair value through profit or loss and Day 1 profit or loss adjustment are excluded.

^(*4) Commitments mentioned in Note 39-3 are the expected maximum exposure which the Group may have to pay in accordance with the contracts in the future. The Group expects that the actual payment will be less than the maximum exposure according to its past transactions and the nature of the commitments. It is difficult for the Group to reasonably estimate the actual timing, amount and probability of settlement of the commitments.

47.2.2. The residual maturity of non-derivative financial instruments as of December 31, 2021 and 2020 consists of the following (in thousands of Korean won) (cont'd):

	December 31, 2020													
	After			After 1 week ~ After		After 1 month~ After 3 months~			fter 6 months~					
			but no later than 1 month		but no later than 3 months		but no later than 6 months		but no later than					
		Within 1 week							1 year		After 1 year			Total
Assets:														
Cash and due from banks	₩	1,764,081,915	₩	12,529,918	₩	140,000,000	₩	50,000,000	₩	150,000,000	₩	105,895,475	₩	2,222,507,308
Financial assets measured at FVTPL		10,562,441,486		3,183,046,500		220,092,196		51,195,045		101,564,126		6,098,822,328		20,217,161,681
Financial assets measured at FVOCI		85,964		76,125,000		19,955,400		35,044,460		-		234,450,696		365,661,520
Loans (*1)		1,721,771,393		153,444,551		1,346,702,621		657,441,840		1,965,909,704		5,537,696,440		11,382,966,549
Lease assets		2,887,068		5,255,727		15,425,281		32,331,592		66,919,188		793,199,684		916,018,540
Other financial assets (*2)		1,458,288,213		16,771,466		146,906,868		8,194,727		13,811,685		50,594,333		1,694,567,292
	₩	15,509,556,039	₩	3,447,173,162	₩	1,889,082,366	₩	834,207,664	₩	2,298,204,703	₩	12,820,658,956	₩	36,798,882,890
Liabilities:														
Deposits (*2)	₩	1,667,165,549	₩	-	₩	52,056,795	₩	142,348,450	₩	85,587,550	₩	7,716,622	₩	1,954,874,966
Financial liabilities held-for- trading		25,563,336		67,999,882		420,178,157		624,433,664		2,041,419,455		1,142,670,786		4,322,265,280
Financial liabilities														
designated at fair value through profit or loss (*3)		-		150,257,008		453,355,455		91,587,845		131,810,652		2,260,966,464		3,087,977,424
Borrowings		7,465,552,091		4,444,676,053		1,667,027,920		996,325,909		897,513,823		2,699,775,670		18,170,871,466
Debentures		-		864,523,000		894,050,000		1,059,800,000		1,590,600,000		3,904,000,000		8,312,973,000
Lease liabilities		-		490,471		951,030		174,077		6,749,666		23,842,611		32,207,855
Other financial liabilities		1,363,996,536		18,346,695		223,469,548		14,984,493		370,852,424		412,091,118		2,403,740,814
	₩	10,522,277,512	₩	5,546,293,109	₩	3,711,088,905	₩	2,929,654,438	₩	5,124,533,570	₩	10,451,063,271	₩	38,284,910,805

^(*1) Deferred loan fees and present value discounts are excluded from loans.

Non-derivative financial instruments of consolidated companies with marketability were classified within one week of maturity. Non-marketable non-derivative financial instruments have been classified according to contractual residual maturity.

^(*2) Present value discounts of other financial assets, lease liabilities and deposits are excluded.

^(*3) The credit risk assessment adjustment for financial liabilities designated at fair value through profit or loss and Day 1 profit or loss adjustment are excluded.

^(*4) Commitments mentioned in Note 39-3 are the expected maximum exposure which the Group may have to pay in accordance with the contracts in the future. The Group expects that the actual payment will be less than the maximum exposure according to its past transactions and the nature of the commitments. It is difficult for the Group to reasonably estimate the actual timing, amount and probability of settlement of the commitments.

47.2.3. The residual maturity of derivative financial instruments as of December 31, 2021 and 2020 consists of the following (in thousands of Korean won):

	December 31, 2021														
			After 1 week ~			After 1 month~		After 3 months~		After 6 months~					
			but	out no later than 1		no later than 1 but no later than		but no later than		but no later than					
	Wit	thin 1 week	month		3 months		6 months		1 year		After 1 year			Total	
Exchange-traded			-												
derivatives	₩	184,133	₩	(207,902)	₩	(32,292,172)	₩	(2,524,826)	₩	(38,771,782)	₩	(47,148,666)	₩	(120,761,215)	
Over-the-counter derivatives (*):								_		_					
Interests		-		114,811		1,686,954		1,654,342		21,240,020		15,435,090		40,131,217	
Currency		(1,150,072)		(5,512,587)		594,693		(7,667,306)		(3,332,377)		6,620,829		(10,446,820)	
Stock		(638)		(31,950)		(31,680)		17,714		60,288		15,888,953		15,902,687	
Others		(6,748,932)		-		100,950,402		(6,886,746)		(35,054,372)		(242,953,438)		(190,693,086)	
		(7,899,642)		(5,429,726)		103,200,369		(12,881,996)		(17,086,441)		(205,008,566)		(145,106,002)	
	₩	(7,715,509)	₩	(5,637,628)	₩	70,908,197	₩	(15,406,822)	₩	(55,858,223)	₩	(252,157,232)	₩	(265,867,217)	

(*) It corresponds to the amount before considering the credit risk adjustment and the deferred initial transaction date profit and loss adjustment.

	December 31, 2020											
	Within 1 week	After 1 week ~ but no later than 1 1 week month		After 1 month~ but no later than 3 months		After 3 months~ but no later than 6 months		After 6 months~ but no later than 1 year		After 1 year		
Exchange-traded		•										
derivatives	₩ -	₩ (21,494)	₩	(13, 156, 033)	₩	(689,388)	₩	(25,063,732)	₩	22,402,027 ₩	(16,5	28,620)
Over-the-counter derivatives (*):												
Interests	-	567,125		418,378		34,147,427		51,083		7,609,949	42,7	93,962
Currency	59,358	11,378,105		21,639,153		(15,660,852)		19,057,961		8,962,326	45,4	36,051
Stock	24,350	2,918		(182,092)		-		2,117,866		5,626,665	7,5	89,707
Others	4,696,361	(13,330,929)		(15,426,616)		(7,357,487)		(565,881)		(12,557,138)	(44,54	41,690 <u>)</u>
	4,780,069	(1,382,781)		6,448,823		11,129,088		20,661,029		9,641,802	51,2	78,030
	₩ 4,780,069	₩ (1,404,275)	₩	(6,707,210)	₩	10,439,700	₩	(4,402,703)	₩	32,043,829 W	34,7	49,410

^(*) It corresponds to the amount before considering the credit risk adjustment and the deferred initial transaction date profit and loss adjustment.

47.3. 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 and so on.

The purposes of market risk management are to control the tolerable loss-limit of assets and liabilities arising from the changes in market variables such as interest rates, foreign exchanges and equity prices. The scope of market risk management is marketable securities which are traded for operating the Group's properties, net foreign exchange positions, derivatives, other assets and liabilities embedded with market risks and off-balances. Significant market risks are interest rate risk, foreign exchange risk and equity price risk as of the reporting date.

The Group manages and controls the market risk arising from the changes of market variables within adequate level by measuring and monitoring the risk exposures on a regular basis.

47.3.1. Trading positions

The trading positions include positions of interest rate, equity price, commodity and foreign exchange held for trading purpose:

- (i) Financial instruments for the purpose of acquiring the differences incurred due to held-for-trading or price fluctuations
- (ii) Financial instruments for the purpose of hedging risks
- (iii) Financial instruments for the purpose of acquiring arbitrages
- (iv) Financial instruments for the purpose of acquisition, brokerage, and market-making

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 is appropriate by reviewing its profit and risk on a regular basis.

47.3.2. Value at risk (VaR)

Value at Risk ("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 VaR for a standard 10 days in the 99% confidence level. In addition, to account for the method's limited use, a stress test is performed in order to measure the extent of the loss in extreme cases.

47.3.3. The types of Market VaR as of December 31, 2021 and 2020 consist of the following (in thousands of Korean won):

	De	ecember 31,							De	cember 31,
		2021		Average		Max		Min		2020
Interest rates risk	₩	34,684,495	₩	39,762,571	₩	55,321,380	₩	30,692,854	₩	37,112,650
Stock price risk Foreign exchange		98,720,369		90,880,568		124,372,711		73,230,479		31,896,454
rates risk		8,749,132		8,760,888		12,728,108		1,797,116		23,885,577
Total risk	₩	142,153,996							₩	92,894,681

47.3.4. Non-trading position

Interest rate risk of non-trading position is the risk of loss when interest rate fluctuates at a disadvantage to assets and liabilities sensitive of interest rate. This is caused by the mismatch between the maturity structure of interest-bearing assets and liabilities and the interest rate revision cycle. Meritz Capital Co., Ltd., a subsidiary, maintains interest rate risk management on all interest-bearing assets, liabilities and transactions except for those subject to price fluctuation risk management.

The interest rate VaR is an estimated maximum loss of net asset due to adverse changes of interest rate. The interest rate VaR of non-trading position of Meritz Capital Co., Ltd., a subsidiary, calculated by standard method as of December 31, 2021 and 2020 are as follows (in thousands of Korean won):

		December 31, 2021		December 31, 2020
Interest rate VaR	₩	42,420,481	₩	56,686,812

47.4. Operational risk

Operational risk is the risk of loss arising from systems failure, human error, fraud or external events. Risks related to strategy 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 due to 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 the operational risk exposures using the approaches suitable to the Financial Investment Industry Regulations.

47.5. Capital management

The Group evaluates the internal capital adequacy by calculating net capital ratio ("NCR") in accordance with the *Regulation on Financial Investment Services* and detailed enforcement regulations in order to have adequate capital and comply with supervisory regulation.

NCR as of December 31, 2021 and 2020 consist of the following (in thousands of Korean won):

	Dec	cember 31, 2021	Dec	ember 31, 2020
I. Net capital for business	₩	4,294,130,916	₩	4,109,298,433
II. Total risk amount		2,373,587,982		1,875,307,925
III. Surplus capital(I - II)		1,920,542,934		2,233,990,508
IV. Regulatory capital required (*)		134,610,000		134,610,000
V. NCR(III/IV)		1,426.75%		1,659.60%

(*) Own capital required is calculated as 70% of legal capital (₩192.3 billion).

48. Uncertainty in the economic environment

Due to concerns about the spread of COVID-19 since 2020, the world, including Korea, is facing a difficult economic situation and uncertainty over the prolonged situation. Financial investment companies are sensitive to domestic and international economic conditions and various variables. In the past, the transaction value was the main variable in the business structure centered on simple investment brokerage. Recently, various external environmental factors such as interest rates, exchange rates, global stock indices, and domestic and overseas real estate market are playing a major role in the performance of financial investment companies. In particular, economic slowdown may become visible in the future due to the impact of the spread of COVID-19.

Therefore, the expansion of volatility in domestic and overseas economic conditions due to rapid changes in the stock market and uncertainty in the direction of monetary policy in major developed countries leads to a decrease in liquidity, increased possibility of capital evacuation, and a decline in investment sentiment, which negatively affects overall financial investment business performance and profitability. The Group is closely monitoring the impact of COVID-19, but the ultimate impact on the Group's financial position and performance cannot be predicted at this time.

49. Approval of the financial statements

The consolidated financial statements were approved by the Board of Directors on January 27, 2022 and expected to approve at the general shareholder's meeting on March 17, 2022.