CONSOLIDATED FINANCIAL STATEMENTS AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

ATTACHMENT: INDEPENDENT AUDITORS' REPORT

**HYUNDAI MOTOR COMPANY** 

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#### KPMG SAMJONG Accounting Corp.

152, Teheran-ro, Gangnam-gu, Seoul 06236 (Yeoksam-dong, Gangnam Finance Center 27th Floor) 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

To the Board of Directors and Shareholders Hyundai Motor Company:

#### **Opinion**

We have audited the consolidated financial statements of Hyundai Motor Company and its subsidiaries ("the Group"), which comprise the consolidated statements of financial position as of December 31, 2022 and 2021, the consolidated statements of income, comprehensive income, changes in equity and cash flows for the years then ended, and notes, comprising 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, 2022 and 2021, 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 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.

#### **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 statements as of and for the year ended December 31, 2022. These matters were addressed in the context of our audit of the consolidated financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters

#### 1) Valuation of warranty provisions

As described in Note 2 (20) and Note 17 to the consolidated financial statements, the Group recognized warranty provision of  $\mathbb{W}$  10,339,527 million as of December 31, 2022.

The Group offers its customers free warranty services during the guaranteed period and free repair services in the event of recall or campaign. To estimate the expected warranty expenditures, the Group aggregates sales volume by vehicle model and uses historical data of the actual warranty costs. Warranty provisions are measured at the present value based on the expected warranty expenditures and discount rates. To measure and recognize warranty provisions, management applies assumptions to estimate expected warranty cost per unit by vehicle model and expected number of repair cases and applies discount rates to measure the present value of provisions. Management uses historical data of the actual warranty costs to estimate expected warranty cost per unit by vehicle model and expected number of repair cases. We identified the valuation of warranty provision as a key audit matter because errors in aggregation of actual warranty costs and sales volume by vehicle models or in assumptions used to estimate future warranty expenditures and discount rates would have a significant impact on the consolidated financial statements.



The primary procedures we performed to address this key audit matter included the following:

- Understanding the process to measure and recognize warranty provision and testing relevant controls.
- Testing completeness and accuracy of vehicles sold used for estimation through inspection of related documents.
- Evaluating reasonableness of assumptions applied for expected warranty cost per unit by vehicle model by comparing warranty costs incurred in the current period to the corresponding warranty costs estimated in the prior period.
- Evaluating reasonableness of assumptions applied for expected number of repair cases through historical data analysis.
- Testing accuracy of warranty provision balance by inspecting documents related to historical data of the actual warranty expenses on a sample basis and testing of recalculation.
- Testing discount rates by comparing to external sources of information.

#### 2) Valuation of financial services receivables

As described in Note 2.(8) and Note 14 to the consolidated financial statements, as of December 31, 2022, the Group recognized financial services receivables, net and loss allowance of  $\mbox{$\mathbb{W}$}$  92,398,410 million and  $\mbox{$\mathbb{W}$}$  1,726,916 million, respectively.

In accordance with K-IFRS 1109 'Financial Instruments', the Group recognizes allowance for credit loss for financial services receivables using the expected credit loss (ECL) model. The ECL model requires management judgment to assess whether the receivable has undergone a significant increase in credit risk, as well as other assumptions, such as credit rating and macroeconomic variables. In addition, the Group also considers historical transaction data, such as delinquency days, bankruptcy, and collection, to determine assumptions used in the ECL model. As errors in the assumptions applied to the ECL model could have a significant impact on the consolidated financial statements, we identified the valuation of financial services receivables as a key audit matter.

The primary procedures we performed to address this key audit matter included the following:

- Assessing whether the Group's accounting policies comply with the requirements in K-IFRS 1109 'Financial Instruments'.
- Understanding the process over the measurement of credit loss allowance on financial services receivables and testing relevant controls.
- On a sample basis, assessing the credit rating and classification of credit quality, including the identification of significant increase credit risk, through inspection of related documents.
- On a sample basis, checking the source data for probability of default and loss given default and testing appropriateness of calculation methods used for the estimation through recalculation.

#### Other matter

The procedures and practices utilized in the Republic of Korea to audit such consolidated financial statements may differ from those generally accepted and applied in other countries.

### 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 internal control that we identify during our audit.

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



From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the consolidated financial statements of the current period and are therefore the key audit matters. We describe these matters in our 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 Jae-Yeon Kim.

KPMG Samjory Accounting Corp.

Seoul, Korea March 8, 2023

This report is effective as of March 8, 2023, 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.

CONSOLIDATED FINANCIAL STATEMENTS AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

The accompanying consolidated financial statements, including all footnote disclosures, were prepared by, and are the responsibility of, the Company.

Chang, Jae Hoon Chief Executive Officer HYUNDAI MOTOR COMPANY

Main Office Address: (Road Name Address) 12, Heolleung-ro, Seocho-gu, Seoul (Phone Number) 02-3464-1114

#### CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

#### AS OF DECEMBER 31, 2022 AND DECEMBER 31, 2021

ASSETS	NOTES	Decem	December 31, 2021			
_		(In millions of Korean Won)				
Current assets:						
Cash and cash equivalents	20	₩	20,864,879	₩ 12,795,554		
Short-term financial instruments	20		5,774,597	6,949,333		
Other financial assets	5,20		5,934,745	12,396,646		
Trade notes and accounts receivable	3,20		4,279,057	3,147,296		
Other receivables	4,20		4,458,689	4,220,970		
Inventories	6		14,291,216	11,645,641		
Current tax assets			85,867	47,346		
Financial services receivables	14,20		38,037,368	35,252,606		
Non-current assets classified as held for sale	8		22,302	28,121		
Other assets	7,20		2,640,553	2,081,853		
Total current assets			96,389,273	88,565,366		
Non-current assets:						
Long-term financial instruments	20		112,557	306,410		
Other financial assets	5,20		3,889,776	3,539,286		
Long-term trade notes and accounts receivable	3,20		179,781	137,157		
Other receivables	4,20		821,050	741,168		
Property, plant and equipment	9,40		36,153,190	35,543,083		
Investment property	10,40		144,450	156,656		
Intangible assets	11,40		6,102,377	5,846,986		
Investments in joint ventures and associates	13		25,199,437	22,429,117		
Net defined benefit assets	35		837,502	219,721		
Deferred tax assets	34		3,237,309	2,224,833		
Financial services receivables	14,20		52,326,478	45,776,526		
Investments in operating leases	15		27,681,534	26,327,996		
Right-of-use assets	12		1,117,293	940,826		
Other assets	7,20		1,550,455	1,191,284		
Total non-current assets			159,353,189	145,381,049		
Total assets		₩	255,742,462	₩ 233,946,415		

(Continued)

#### CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

#### AS OF DECEMBER 31, 2022 AND DECEMBER 31, 2021

LIABILITIES AND EQUITY	NOTES	December 31, 2022 December 31,			
		(In millions of Korean Won)			
Current liabilities:					
Trade notes and accounts payable	20	₩ 10,797,065			
Other payables	20,39	8,277,891	6,335,645		
Short-term borrowings	16,20,40	11,366,480	13,087,836		
Current portion of long-term debt and debentures	16,20,40	25,574,131	20,578,902		
Income tax payable		1,008,506	751,929		
Provisions	17	8,102,596	6,664,647		
Other financial liabilities	18,20	99,144	55,187		
Lease liabilities	12,20	405,053	167,266		
Non-current liabilities classified as held for sale	8	5,365	-		
Other liabilities	19,20,27	8,600,241	7,440,120		
Total current liabilities		74,236,472	64,236,787		
Non-current liabilities:					
Long-term other payables	20,39	726,115	769,487		
Debentures	16,20,40	62,960,060	63,458,809		
Long-term debt	16,20,40	12,285,149	10,667,731		
Net defined benefit liabilities	35	61,861	79,165		
Provisions	17	4,327,985	4,214,137		
Other financial liabilities	18,20	262,518	87,258		
Deferred tax liabilities	34	5,027,741	3,689,328		
Lease liabilities	12,20	705,751	783,306		
Other liabilities	19,20,27	4,252,265	3,344,618		
Total non-current liabilities	19,20,27	90,609,445	87,093,839		
Total liabilities		164,845,917	151,330,626		
Equity:					
Capital stock	21	1,488,993	1,488,993		
Capital surplus	22	4,241,303	4,070,260		
Other capital items	23	(1,713,928)	(1,968,385)		
Accumulated other comprehensive loss	24	(1,620,682)	(1,772,601)		
Retained earnings	25	79,953,601	73,167,855		
Equity attributable to the owners of the Company		82,349,287	74,986,122		
Non-controlling interests		8,547,258	7,629,667		
Total equity		90,896,545	82,615,789		
rotar equity		90,090,343	62,013,789		
Total liabilities and equity		₩ 255,742,462	₩ 233,946,415		

(Concluded)

#### CONSOLIDATED STATEMENTS OF INCOME

#### FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

	NOTES		2022	2021
		(In mil	lions of Korean Wo	n, except per share amounts)
Sales	27,40	₩	142,527,535	₩ 117,610,626
Cost of sales	32		114,209,483	95,680,131
Gross profit			28,318,052	21,930,495
Selling and administrative expenses	28,32		18,498,283	15,251,546
Operating profit			9,819,769	6,678,949
Gain on investments in joint ventures and				
associates, net	29		1,556,583	1,303,365
Finance income	30		1,218,813	912,802
Finance expenses	30		1,054,228	548,410
Other income	31		2,257,113	1,447,261
Other expenses	31,32		2,850,107	1,834,405
Profit before income tax			10,947,943	7,959,562
Income tax expense	34		2,964,329	2,266,485
Profit for the year		₩	7,983,614	₩ 5,693,077
Profit attributable to:				
Owners of the Company			7,364,364	4,942,356
Non-controlling interests			619,250	750,721
Earnings per share attributable to the owners				
of the Company:	33			
Basic earnings per share:				
Common stock		₩	28,521	₩ 18,979
1 <sup>st</sup> preferred stock		₩	28,207	₩ 19,002
Diluted earnings per share:			,	- 7
Common stock		₩	28,521	₩ 18,979
1 <sup>st</sup> preferred stock		₩	28,207	₩ 19,002
i preferred stock			20,207	19,002

#### CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

#### FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

		2022	2021		
		(In millions o	f Korean Won)		
Profit for the year	₩	7,983,614	₩ 5,693,077		
Other comprehensive income (loss): Items that will not be reclassified subsequently to profit or loss:					
Profit (loss) on financial assets measured at FVOCI, net		(223,420)	102,137		
Remeasurements of defined benefit plans Changes in retained earnings of equity-accounted		391,308	175,392		
investees, net		164,475	77,482		
Changes in share of OCI of equity-accounted					
investees, net		(175,059)	21,803		
		157,304	376,814		
Items that may be reclassified subsequently to profit or loss:					
Loss on financial assets measured at FVOCI, net Gain on valuation of cash flow hedge		(36,545)	(6,448)		
derivatives, net		218,377	5,015		
Changes in share of OCI of equity-accounted			-,		
investees, net		10,008	546,504		
Gain on foreign operations translation, net		701,718	1,246,177		
	-	893,558	1,791,248		
Total other comprehensive income		1,050,862	2,168,062		
Total comprehensive income	₩	9,034,476	₩ 7,861,139		
Comprehensive income attributable to:					
Shareholders of the Company		8,234,396	6,938,637		
Non-controlling interests		800,080	922,502		
Total comprehensive income	₩	9,034,476	₩ 7,861,139		

## CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

	Capital stock	Capital surplus	Other capital items	Accumulated other comprehensive income (loss)	Retained earnings f Korean Won)	Total equity attributable to the owners of the Company	Non- controlling interests	Total equity
Balance at January 1, 2021 Comprehensive	₩ 1,488,993	₩ 4,190,093	₩ (1,700,592)	₩ (3,409,661)	,	₩ 69,480,633	₩ 6,860,337	₩ 76,340,970
income: Profit for the period Gain (loss) on financial	-	-	-	-	4,942,356	4,942,356	750,721	5,693,077
assets measured at FVOCI, net Gain (loss) on valuation of cash flow hedge	-	-	-	(21,021)	114,718	93,697	1,992	95,689
derivatives, net Changes in valuation of equity-accounted	-	-	-	(47,902)	-	(47,902)	52,917	5,015
investees, net	-	-	-	544,170	77,482	621,652	24,137	645,789
Remeasurements of defined benefit plans Gain on foreign	-	-	-	-	167,021	167,021	8,371	175,392
operations translation, net	-	-	-	1,161,813	-	1,161,813	84,364	1,246,177
Total comprehensive income				1,637,060	5,301,577	6,938,637	922,502	7,861,139
Transactions with owners, recorded directly in equity: Payment of cash dividends Increase in paid-in	-	-	-	-	(1,045,775)	(1,045,775)	(140,854)	(1,186,629)
capital of subsidiaries by issuing stock Acquisition of	-	19,819	-	-	-	19,819	165,311	185,130
investment of subsidiaries Disposals of	-	(164,567)	-	-	-	(164,567)	65,966	(98,601)
investment of subsidiaries Purchases of	-	-	-	-	-	-	(71,634)	(71,634)
treasury stocks	-	-	(305,337)	-	-	(305,337)	-	(305,337)
Disposals of treasury stocks Repayment of	-	24,915	37,544	-	-	62,459	-	62,459
hybrid bonds Others					253	253	(150,323) (21,638)	(150,323) (21,385)
Total transactions with owners, recorded directly in equity		(119,833)	(267,793)		(1,045,522)	(1,433,148)	(153,172)	(1,586,320)
Balance at December 31, 2021	₩ 1,488,993	₩ 4,070,260	₩ (1,968,385)	₩ (1,772,601)	₩ 73,167,855	₩ 74,986,122	₩ 7,629,667	₩ 82,615,789

(Continued)

## CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

	Capital stock	Capital surplus	Other capital items	Accumulated other comprehensive income (loss)	Retained earnings	Total equity attributable to the owners of the Company	Non- controlling interests	Total equity
				(In millions of	f Korean Won)			
Balance at January 1, 2022 Comprehensive income:	₩ 1,488,993	₩ 4,070,260	₩ (1,968,385)	₩ (1,772,601)	₩ 73,167,855	₩ 74,986,122	₩ 7,629,667	₩ 82,615,789
Profit for the period Gain (loss) on financial	-	-	-	-	7,364,364	7,364,364	619,250	7,983,614
assets measured at FVOCI, net Gain on valuation	-	-	-	(430,012)	174,758	(255,254)	(4,711)	(259,965)
of cash flow hedge derivatives, net Changes in valuation	-	-	-	169,796	-	169,796	48,581	218,377
of equity-accounted investees, net Remeasurements of	-	-	-	(160,325)	164,475	4,150	(4,726)	(576)
defined benefit plans Gain on foreign	-	-	-	-	378,880	378,880	12,428	391,308
operations translation, net				572,460		572,460	129,258	701,718
Total comprehensive income				151,919	8,082,477	8,234,396	800,080	9,034,476
Transactions with owners, recorded directly in equity: Payment of cash dividends Increase in paid-in capital of	-	-	-	-	(1,298,212)	(1,298,212)	(56,800)	(1,355,012)
subsidiaries by issuing stock Acquisition of	-	-	-	-	-	-	560	560
investment of subsidiaries Disposals of	-	-	-	-	-	-	273,271	273,271
investment of subsidiaries Purchases of	-	-	-	-	-	-	(83,094)	(83,094)
treasury stocks Disposals of	-	-	(193,452)	-	-	(193,452)	-	(193,452)
treasury stocks Others	-	174,346 (3,303)	447,909	-	1,481	622,255 (1,822)	(16,426)	622,255 (18,248)
Total transactions with owners, recorded			054.45-					
directly in equity		171,043	254,457		(1,296,731)	(871,231)	117,511	(753,720)
Balance at December 31, 2022	₩ 1,488,993	₩ 4,241,303	₩ (1,713,928)	₩ (1,620,682)	₩ 79,953,601	₩ 82,349,287	₩ 8,547,258	₩ 90,896,545

(Concluded)

#### CONSOLIDATED STATEMENTS OF CASH FLOWS

#### FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

	NOTES		2022		2021
			(In millions o	f Kore	ean Won)
Cash flows from operating activities:					
Cash generated from operations:	36				
Profit for the year		₩	7,983,614	₩	5,693,077
Adjustments			20,255,938		15,777,589
Changes in operating assets and liabilities			(13,922,657)		(20,287,776)
			14,316,895		1,182,890
Interest received			867,192		449,789
Interest paid			(2,695,029)		(1,905,945)
Dividend received			531,902		213,735
Income tax paid			(2,393,649)		(1,116,885)
Net cash provided by (used in) operating activities			10,627,311		(1,176,416)
Cash flows from investing activities:					
Changes in short-term financial instruments, net			1,082,254		1,326,872
Changes in other financial assets (current), net			5,452,691		225,974
Decrease in other financial assets (non-current)			41,521		259,202
Collection of other receivables			60,779		67,437
Disposals of long-term financial instruments			122,124		35,183
Proceeds from disposals of property, plant and			, :		,
equipment			136,870		113,008
Proceeds from disposals of intangible assets			7,357		20,261
Proceeds from disposals of investment in joint			. ,		-, -
ventures and associates			19,115		8,873
Acquisitions of subsidiaries, net of cash acquired			(89,167)		(294,210)
Increases in other financial assets (non-current)			(276,728)		(212,964)
Increases in other receivables			(80,170)		(69,563)
Purchases of long-term financial instruments			(63,612)		(279,471)
Acquisitions of property, plant and equipment			(4,014,969)		(4,304,334)
Acquisitions of intangible assets			(1,718,733)		(1,556,993)
Acquisitions of investments in joint ventures and					
associates			(1,696,266)		(565,528)
Cash outflows from changes in consolidation			(197,188)		(125,611)
Others			10,627		169,285
Net cash used in investing activities			(1,203,495)		(5,182,579)

(Continued)

#### CONSOLIDATED STATEMENTS OF CASH FLOWS

#### FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

	NOTES		2022		2021
Cash flows from financing activities			(In millions of	f Kore	ean Won)
Cash flows from financing activities:  Proceeds from short-term borrowings		₩	3,388,510	₩	3,769,996
Proceeds from long-term debt and debentures		* *	30,089,495	* *	40,688,506
Proceeds from capital contribution from non-			50,005,155		10,000,500
controlling interest			341,864		165,311
Acquisitions of subsidiaries			-		(300,670)
Repayment of short-term borrowings			(6,070,109)		(4,390,047)
Repayment of long-term debt and debentures			(27,086,324)		(29,164,478)
Repayment of lease liabilities			(195,245)		(185,158)
Purchases of treasury stocks			(193,451)		(305,337)
Dividends paid			(1,354,996)		(1,186,800)
Repayment of hybrid bonds			(244.242)		(150,323)
Others			(244,243)		(148,714)
Net cash provided by (used in) financing activities			(1,324,499)		8,792,286
Effect of exchange rate changes on cash and					
cash equivalents			(29,992)		500,127
Net increase in cash and cash equivalents			8,069,325		2,933,418
Cash and cash equivalents, beginning of the year			12,795,554		9,862,136
Cash and cash equivalents, end of the year		₩	20,864,879	₩	12,795,554
(Concluded)					

#### NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

#### FOR THE YEARS ENDED DECEMBER 31, 2022 AND 2021

#### 1. **GENERAL**:

Hyundai Motor Company (the "Company" or "Parent Company") was incorporated in December 1967, under the laws of the Republic of Korea. The Company and its subsidiaries (the "Group") manufacture and distribute motor vehicles and parts, operate vehicle financing and credit card processing, and manufacture trains.

The shares of the Company have been listed on the Korea Exchange since June 1974, and the Global Depositary Receipts issued by the Company have been listed on the London Stock Exchange and Luxembourg Stock Exchange.

As of December 31, 2022, the major shareholders of the Company are Hyundai MOBIS (45,782,023 shares, 21.43%) and Mr. Chung, Mong Koo (11,395,859 shares, 5.33%).

(1) The Group's consolidated subsidiaries as of December 31, 2022 are as follows.

Name of subsidiaries	Nature of business	Location	Ownership percentage	Indirect ownership
HYUNDAI CAPITAL SERVICES, INC. HYUNDAI CARD CO., LTD. (*1)	Financing "	Korea "	59.68% 36.96%	
HYUNDAI ROTEM COMPANY (*2) HYUNDAI KEFICO CORPORATION	Manufacturing	"	33.77% 100.00%	
HYUNDAI PARTECS	"	"	56.00%	
Hyundai NGV	Engineering	"	53.66%	INVENTED A DOMENIA GOLEDANIA
MAINtrans company	Services	"	100.00%	HYUNDAI ROTEM COMPANY 100.00%
Rotem SRS Co., Ltd.	"	"	100.00%	n
JEONBUK HYUNDAI MOTORS FC CO., LTD	Football club	"	100.00%	
AirPlug Inc.	R&D and Sales	"	99.32%	
42dot Inc. (*5) Movia Inc.	Tuon on outin o	"	66.08% 100.00%	42dot 100.00%
Hyundai Motor America (HMA)	Transporting Sales	USA	100.00%	42dot 100.00%
Hyundai Capital America (HCA)	Financing	"	80.00%	HMA 80.00%
Hyundai Motor Manufacturing Alabama, LLC (HMMA)	Manufacturing	"	100.00%	HMA 100.00%
Hyundai Motor Group Metaplant America, LLC (HMGMA)	"	"	60.00%	HMA 60.00%
Hyundai Translead (HT)	"	"	100.00%	
Stamped Metal American Research Technology, Inc. (SMARTI)	Holding company	"	72.45%	HMA 72.45%
SMART Alabama, LLC (SMART)	Manufacturing	"	100.00%	SMARTI 100.00%
Hyundai America Technical Center, Inc. (HATCI)	R&D	"	100.00%	
Genesis Motor America LLC	Sales	"	100.00%	HMA 100.00%
Hyundai Rotem USA Corporation	Manufacturing	"	100.00%	HYUNDAI ROTEM COMPANY 100.00%
Hyundai Motor Investment, Inc.	Investment	"	100.00%	
42 Air, Inc	R&D and Sales	"	100.00%	42dot 100.00%
HYUNDAI AUTO CANADA CORP. (HACC)	Sales	Canada	100.00%	HMA 100.00%
HYUNDAI AUTO CANADA CAPTIVE INSURANCE INC. (HACCI)	Insurance	"	100.00%	n
Hyundai Capital Canada Inc. (HCCA)	Financing	"	70.00%	HYUNDAI CAPITAL SERVICES, INC. 20.00%
Hyundai Capital Lease Inc. (HCLI)	"	"	100.00%	HCCA 100.00%
HK Lease Funding LP	"	"	100.00%	HCLI 99.99%, HCCA Funding Inc. 0.01%
HCCA Funding Inc.	"	"	100.00%	HCLI 100.00%
HCCA Funding Two Inc.	"	"	100.00%	HCCA 100.00%

Name of subsidiaries	Nature of business	Location	Ownership percentage	Indirect ownership
HK Retail Funding LP	Financing	Canada	100.00%	HCCA 99.99%, HCCA Funding Two Inc 0.01%
HYUNDAI MOTOR INDIA LIMITED (HMI) HYUNDAI MOTOR INDIA	Manufacturing	India	100.00%	TREETT unding Two life 0.0170
ENGINEERING PRIVATE LIMITED (HMIE)	R&D	"	100.00%	HMI 100.00%
HYUNDAI INDIA INSURANCE BROKING PRIVATE LIMITED (HIIB)	Insurance	"	100.00%	"
HYUNDAI CAPITAL INDIA PRIVATE LIMITED (HCI)	Financing	"	100.00%	HYUNDAI CAPITAL SERVICES, INC. 100.00%
Hyundai Mobility Japan Co., Ltd. (HMJ) (*3)	Sales	Japan	100.00%	
Hyundai Mobility Japan R&D Center Co., Ltd. (HMJ R&D) (*3)	R&D	"	100.00%	
Beijing Jingxian Motor Safeguard Service Co., Ltd. (BJMSS)	Sales	China	100.00%	
Beijing Jingxianronghua Motor Sale Co., Ltd.	"	"	100.00%	BJMSS 100.00%
Genesis Motor Sales (Shanghai) Co., LTD.	"	"	100.00%	
Hyundai Millennium (Beijing) Real Estate Development Co., Ltd.	Real estate development	"	99.00%	CMEs 99.00%
Rotem Equipments (Beijing) Co., Ltd.	Sales	"	100.00%	HYUNDAI ROTEM COMPANY 100.00%
KEFICO Automotive Systems(Beijing) Co., Ltd.	Manufacturing	"	100.00%	HYUNDAI KEFICO CORPORATION 100.00%
KEFICO Automotive Systems(Chongqing) Co., Ltd.	"	"	90.00%	HYUNDAI KEFICO CORPORATION 90.00%
Hyundai Truck & Bus (China) Co., Ltd. (HTBC)	"	"	100.00%	
HYUNDAI THANH CONG VIETNAM AUTO MANUFACTURING CORPORATION (HTMV)(*1) HYUNDAI THANH CONG	"	Vietnam	50.00%	
COMMERCIAL VEHICLE JOINT STOCK COMPANY (HTCV)(*1)	Sales	"	50.00%	
HYUNDAI THANH CONG VIET NAM AUTO JOINT VENTURE JOINT STOCK COMPANY (HTV)(*1)	"	"	50.00%	
HYUNDAI KEFICO VIETNAM COMPANY LIMITED	Manufacturing	"	100.00%	HYUNDAI KEFICO CORPORATION 100.00%
HYUNDAI MOTOR COMPANY AUSTRALIA PTY LIMITED (HMCA)	Sales	Australia	100.00%	
HYUNDAI MOTOR PHILIPPINES, INC. (HMPH)	"	Philippines	99.99%	
HYUNDAI MOBILITY (THAILAND) CO., LTD. (HMT)	"	Thailand	100.00%	
PT HYUNDAI MOTOR MANUFACTURING INDONESIA (HMMI)	Manufacturing	Indonesia	99.99%	
PT HYUNDAI MOTORS INDONESIA (HMID)	Sales	"	100.00%	HMMI 0.01%
PT Hyundai Solusi Mobilitas (HSM)	"	"	99.99%	HMID 99.99%
PT. HYUNDAI CAPITAL INDONESIA (HCID)	Financing	"	100.00%	HYUNDAI CAPITAL SERVICES, INC. 100.00%
Hyundai Capital Australia Pty Limited	"	Australia	100.00%	"
HR MECHANICAL SERVICES LIMITED	Services	New Zealand	100.00%	HYUNDAI ROTEM COMPANY 100.00%
Hyundai Motor Manufacturing Czech	Manufacturing	Czech	100.00%	
s.r.o. (HMMC) Hyundai Motor Czech s.r.o. (HMCZ)	Sales	"	100.00%	
Hyundai Motor Europe GmbH (HME)	Marketing and Sales	Germany	100.00%	
Hyundai Motor Deutschland GmbH (HMD)	Sales	n	100.00%	

Name of subsidiaries	Nature of business	Location	Ownership percentage	Indirect ownership
Hyundai Motor Europe Technical	R&D	Germany	100.00%	
Center GmbH (HMETC) Hyundai Motorsport GmbH (HMSG)	Marketing	"	100.00%	HME 100.00%
Hyundai Capital Europe GmbH.	Financing	"	100.00%	HYUNDAI CAPITAL SERVICES, INC. 100.00%
HMCIS B.V.	Holding company	Netherlands	100.00%	HMMR 1.65%
Hyundai Motor Netherlands B.V. (HMNL)	Sales	"	100.00%	
Hyundai Motor Manufacturing Rus LLC (HMMR)	Manufacturing	Russia	70.00%	
Hyundai Motor CIS Limited Liability Company (HMCIS)	Sales	"	100.00%	HMCIS B.V. 100.00%
Hyundai Mobility Lab Limited Liability Company. (HML)	R&D	"	100.00%	HMCIS 99.00%, HMMR 1.00%
HYUNDAI CAPITAL SERVICES LIMITED LIABILITY COMPANY	Financing	"	100.00%	Hyundai Capital Europe 100.00%
Limited liability company Hyundai Truck & Bus Rus (HTBR)	Sales	"	100.00%	
Hyundai Assan Otomotiv Sanayi Ve Ticaret Anonim Sirketi (HAOSVT)	Manufacturing	Turkiye	97.00%	
Hyundai EURotem Demiryolu Araclari Sanayi ve Ticaret A.S	"	"	50.50%	HYUNDAI ROTEM COMPANY 50.50%
Hyundai Rotem Company – Hyundai EUROTEM Demiryolu Araclari SAN. VE TIC. A.S ORTAK GIRISIMI	Sales	"	100.00%	HYUNDAI ROTEM COMPANY 65.00%, Hyundai EURotem A.S. 35.00%
Hyundai Rotem Company - Hyundai EUROTEM Mahmutbey Projesi	"	"	100.00%	HYUNDAI ROTEM COMPANY 85.00%,
ORTAK GIRISIMI Rotem SRS Ukraine LLC. Rotem SRS Egypt LLC.	Services "	Ukraine Egypt	100.00% 98.00%	Hyundai EURotem A.S. 15.00% Rotem SRS Co., Ltd. 100.00% Rotem SRS Co., Ltd. 98.00%
HYUNDAI MOTOR UK LIMITED (HMUK)	Sales	UK	100.00%	Rotelli 5R5 Co., Ltd. 76.0070
HYUNDAI MOTOR COMPANY ITALY S.R.L. (HMCI)	"	Italy	100.00%	
HYUNDAI MOTOR ESPANA, S.L.U. (HMES)	"	Spain	100.00%	
HYUNDAI MOTOR FRANCE (HMF)	"	France	100.00%	
Hyundai Motor Poland sp. z o.o. (HMP)	"	Poland	100.00%	
GENESIS MOTOR EUROPE GmbH (GME)	"	Germany	100.00%	
GENESIS MOTOR UK LIMITED (GMUK)	"	UK	100.00%	GME 100.00%
GENESIS MOTOR SWITZERLAND AG (GMCH)	"	Switzerland	100.00%	"
GENESIS MOTOR DEUTSCHLAND GmbH (GMD)	"	Germany	100.00%	"
Hyundai Hydrogen Mobility AG (HHM)	"	Switzerland	75.00%	
Hyundai Hydrogen Mobility Germany GmbH (HHMG)	"	Germany	100.00%	HHM 100.00%
HYUNDAI MOTOR DE MEXICO S DE RL DE CV (HMM)	"	Mexico	100.00%	HT 0.01%
Hyundai de Mexico, SA DE C.V., (HYMEX)	Manufacturing	"	99.99%	HT 99.99%
HYUNDAI KEFICO MEXICO, S. DE R.L. DE C.V.	"	"	100.00%	HYUNDAI KEFICO CORPORATION 100.00%
Hyundai Rio Vista, Inc.	Real estate development	USA	100.00%	HT 100.00%
HYUNDAI MOTOR BRASIL MONTADORA DE AUTOMOVEIS LTDA (HMB)	Manufacturing	Brazil	100.00%	
Hyundai Capital Brasil Servicos De Assistencia Financeira Ltda.	Financing	"	100.00%	HYUNDAI CAPITAL SERVICES, INC. 100.00%
Hyundai Rotem Brasil Industria E Comercio De Trens Ltda.	Manufacturing	"	100.00%	HYUNDAI ROTEM COMPANY 100.00%

Name of subsidiaries	Nature of business	Location	Ownership percentage	Indirect ownership
HMS SERVICOS DE MOBILIDADE LTDA. (*4)	Holding company	Brazil	99.99%	HMB 99.99%
China Millennium Corporations (CMEs)	"	Cayman Islands	59.60%	
China Mobility Fund, L.P.	Investment	"	72.00%	
ZER01NE Accelerator Investment Fund No.1	"	"	99.00%	
Autopia Sixty-fifth ~ Seventy-Fifth Asset Securitization Specialty Company (*1)	Financing	"	0.50%	HYUNDAI CAPITAL SERVICES, INC. 0.50%
Zavurov First Co., Ltd. (*1)	"	"	0.00%	HYUNDAI CAPITAL SERVICES, INC. 0.00%
Super Series Sixth ~ Fourteenth Securitization Specialty Co., Ltd. (*1)	"	"	0.50%	HYUNDAI CARD CO., LTD. 0.50%
Bluewalnut Co., Ltd.	"	"	100.00%	HYUNDAI CARD CO., LTD. 100.00%
MOCEAN Co.,Ltd	Mobility Service	"	80.00%	
Hyundai Cha Funding, LLC	Financing	USA	100.00%	HCA 100.00%
Hyundai Lease Titling Trust	"	"	100.00%	"
Hyundai HK Funding, LLC	"	"	100.00%	"
Hyundai HK Funding Two, LLC	"	"	100.00%	"
Hyundai HK Funding Three, LLC	"	"	100.00%	"
Hyundai HK Funding Four, LLC	"	"	100.00%	"
Hyundai ABS Funding, LLC	"	"	100.00%	"
HK Real Properties, LLC	"	"	100.00%	"
Hyundai Auto Lease Offering, LLC	"	"	100.00%	"
Hyundai HK Lease, LLC	"	"	100.00%	"
Extended Term Amortizing Program, LLC	"	"	100.00%	"
Hyundai Asset Backed Lease, LLC	"	"	100.00%	"
HCA Exchange, LLC	"	"	100.00%	"
Hyundai Protection Plan, Inc.	Insurance	"	100.00%	"
Hyundai Protection Plan Florida, Inc.	"	"	100.00%	"
Hyundai Capital Insurance Services, LLC	"	"	100.00%	"
Hyundai Capital Insurance Company	"	"	100.00%	"
Power Protect Extended Services, Inc.	"	"	100.00%	"
Power Protect Extended Services Florida,				
Inc.	"	"	100.00%	"

- (\*1) The Group is considered to have substantive control over the entities by virtue of an agreement or relationship with other investors, or relationship with structured entities.
- (\*2) Even though the shareholding ratio of ownership is less than half, the Group has de facto control over the entity due to the relative size of the voting rights held and the degree of share dispersion of other voting rights holders.
- (\*3) During the year ended December 31, 2022, the names of companies were changed from Hyundai Motor Japan Co., Ltd. and Hyundai Motor Japan R&D Center Inc. to Hyundai Mobility Japan Co., Ltd. and Hyundai Mobility Japan R&D Center Co., Ltd., respectively.
- (\*4) The name of company was changed from HMB Holding Participacoes Financeiras Ltda. to HMS SERVICOS DE MOBILIDADE LTDA.
- (\*5) During the year ended December 31, 2022, the Group acquired additional shares of 42dot Inc. and reclassified its shares to a subsidiary. Although the shareholding ratio of common stock is 66.08%, the shareholding ratio with voting rights is 55.90% considering the redeemable convertible preference share with voting rights issued.

(2) Summarized financial position and results of operations of major consolidated subsidiaries as of and for the year ended December 31, 2022 are as follows.

				Profit (loss)
Name of subsidiaries	Assets	Liabilities	Sales	for the period
		(In millions of	of Korean Won)	
HYUNDAI CAPITAL SERVICES, INC. (*)	₩ 38,647,454	₩ 33,017,783	₩ 4,436,122	₩ 437,087
HYUNDAI CARD CO., LTD. (*)	25,102,360	21,256,797	3,015,376	253,957
HYUNDAI ROTEM COMPANY (*)	4,823,870	3,332,399	3,163,344	194,534
HYUNDAI KEFICO CORPORATION (*)	2,118,244	1,151,710	2,255,354	86,781
HCA (*)	65,174,141	57,784,155	12,392,502	416,542
HMA	13,534,367	8,484,603	33,684,033	2,549,423
HMMA	4,974,559	3,863,001	11,399,961	(807,997)
HMI (*)	4,932,560	2,071,012	9,230,238	710,908
HMMC	4,554,767	1,724,596	9,291,193	680,064
HME (*)	2,604,267	2,528,135	14,302,787	12,792
HACC (*)	1,811,550	1,003,562	4,146,159	102,258
HMB	1,801,019	1,195,946	3,314,994	97,250
HAOSVT	1,733,527	867,053	3,625,354	288,338
HMMR	1,242,120	406,509	965,782	(230,103)
HMCA	1,074,603	874,474	2,371,422	45,739

<sup>(\*)</sup> Based on the subsidiary's consolidated financial statements

Summarized financial position and results of operations of major consolidated subsidiaries as of and for the year ended December 31, 2021 are as follows.

						Pro	ofit (loss)
Name of subsidiaries	Assets	I	Liabilities		Sales	for 1	the period
			(In millions of	of Kor	rean Won)		
HYUNDAI CAPITAL SERVICES, INC. (*)	₩ 34,917,071	₩	29,710,340	₩	3,485,601	₩	432,055
HYUNDAI CARD CO., LTD. (*)	21,654,608		18,026,253		2,744,902		314,139
HYUNDAI ROTEM COMPANY (*)	4,107,183		2,838,938		2,872,512		51,412
HYUNDAI KEFICO CORPORATION (*)	2,038,940		1,187,748		2,029,003		60,512
HCA (*)	59,230,349		52,672,107		10,686,865		1,050,250
HMA	8,578,534		5,929,588		22,883,130		1,028,470
HMMA	4,522,540		2,741,306		8,088,117		236,955
HMMC	4,406,392		1,852,526		7,426,329		417,537
HMI (*)	4,310,031		1,782,415		7,339,424		437,395
HME (*)	2,107,163		2,044,181		11,846,977		11,410
HACC (*)	1,946,770		1,119,224		3,582,216		117,911
HMMR	1,931,470		959,020		3,178,717		172,149
HAOSVT	1,469,527		887,896		3,021,886		198,490
HMB	1,387,554		913,764		2,074,018		41,020
HMCA	911,712		716,694		1,938,967		28,116

<sup>(\*)</sup> Based on the subsidiary's consolidated financial statements

<sup>(3)</sup> The financial statements of all subsidiaries used in the preparation of the consolidated financial statements are prepared for the same reporting periods as the Company's.

(4) Summarized cash flows of non-wholly owned subsidiaries that have material non-controlling interests to the Group and subsidiaries of finance segment for the year ended December 31, 2022 are as follows.

		YUNDAI CAPITAL	НҮ	UNDAI CARD	НСА	НССА	I	YUNDAI ROTEM
Description	SER	VICES, INC.		CO., LTD.		-	CC	OMPANY
				(In milli	ons of Korean Won)			
Provided by (used in)								
operating activities	₩	(1,111,074)	₩	(618,906)	₩ (254,261)	₩ (1,257,295)	₩	716,229
Provided by (used in)								
investing activities		(223,067)		(70,359)	28,172	(1,741)		(429,045)
Provided by (used in)								
financing activities		2,572,598		2,379,211	389,229	1,274,970		(97,120)
Effect of exchange rate changes on cash and cash equivalent		_		_	22,292	(542)		(3,784)
Net increase (decrease) in								
cash and cash equivalents		1,238,457		1,689,946	185,432	15,392		186,280
Beginning balance of cash and cash equivalents		509,170		579,444	368,191	72,402		319,728
Ending balance of cash and cash equivalents	₩	1,747,627	₩	2,269,390	₩ 553,623	₩ 87,794	₩	506,008

Summarized cash flows of non-wholly owned subsidiaries that had material non-controlling interests to the Group and subsidiaries of finance segment for the year ended December 31, 2021 are as follows.

		HYUNDAI CAPITAL RVICES, INC.	НҮ	UNDAI CARD CO., LTD.		НСА		НССА	]	YUNDAI ROTEM DMPANY
				(In milli	ons (	of Korean Won)				
Provided by (used in) operating activities Provided by (used in)	₩	(367,733)	₩	(1,400,073)	₩	(7,321,554)	₩	(1,558,760)	₩	(62,714)
investing activities		(40,360)		(105,567)		(955,140)		(642)		146,142
Provided by (used in)		( - ) )		( , )		(, -,		(- )		-,
financing activities		510,859		1,310,731		8,132,339		1,549,724		(99,586)
Effect of exchange rate changes on cash and cash equivalent		339		_		37,398		6,651		(2,842)
Net increase (decrease) in										
cash and cash equivalents		103,105		(194,909)		(106,957)		(3,027)		(19,000)
Beginning balance of cash and cash										
equivalents		406,065		774,353		475,148		75,429		338,728
Ending balance of cash										
and cash equivalents	₩	509,170	₩	579,444	₩	368,191	₩	72,402	₩	319,728

(5) Details of non-wholly owned subsidiaries of the Company that have material non-controlling interests as of and for the year ended December 31, 2022 are as follows.

	H'	YUNDAI				HYUNDAI
	C.	APITAL	HYU	NDAI CARD		ROTEM
Description	SERV	/ICES, INC.	C	O., LTD.		COMPANY
		(In	million	s of Korean W	on)	
Ownership percentage of non-controlling						
interests		40.32%		63.04%		66.23%
Accumulated non-controlling interests	₩	2,263,283	₩	2,511,596	₩	845,085
Profit attributable to non-controlling						
interests		171,675		160,104		127,747
Dividends paid to non-controlling interests		-		56,753		=

Details of non-wholly owned subsidiaries of the Company that had material non-controlling interests as of and for the year ended December 31, 2021 are as follows.

Description	C	YUNDAI APITAL VICES, INC.		YUNDAI ARD CO., LTD.	F	YUNDAI ROTEM OMPANY
		(In r	nillion	s of Korean V	Von)	
Ownership percentage of non-controlling interests		40.32%		63.04%		66.23%
Accumulated non-controlling interests	₩	2,097,956	₩	2,379,871	₩	702,366
Profit attributable to non-controlling interests  Dividends paid to non-controlling interests		170,930 37,002		198,059 92,463		28,968

(6) Financial support provided to consolidated structured entities

As of December 31, 2022, HYUNDAI CARD CO., LTD. and HYUNDAI CAPITAL SERVICES, INC., subsidiaries of the Company, have agreements that provide counterparties with rights of recourse in the event of default on the derivatives relating to asset-backed securities issued by consolidated structured entities, Autopia Sixty-Eighth and Sixty-Ninth Asset Securitization Specialty Company, Super Series Sixth, Eighth, Ninth, Twelfth and Fourteenth Securitization Specialty Co., Ltd..

- (7) Nature and risks associated with interests in unconsolidated structured entities
- 1) Nature of interests in unconsolidated structured entities of the Group as of December 31, 2022 is as follows.

Description	Purpose	Nature of business	Method of funding	Total assets (*)
		(In millions of Kore	ean Won)	
Asset securitization SPC	Fund raising through asset- securitization	Fund collection	Asset Backed Securities and others	₩ 711,575
Investment fund	Investment trust and others	Fund management and operation, distribution of operating profit and others	Beneficiary (Investment) certificates	
				6,877,841
Structured Finance	Fund raising through project financing	Project financing for construction project and	Project financing and others	
	S	ship investment		24,128,653

(\*) The financial information of unconsolidated structured entity includes unaudited amounts.

Nature of interests in unconsolidated structured entities of the Group as of December 31, 2021 is as follows.

			Method of	
Description	Purpose	Nature of business	funding	Total assets (*)
		(In millions of Kor	ean Won)	
Asset securitization SPC	Fund raising through asset-securitization	Fund collection	Asset Backed Securities and others	₩ 138,514
Investment fund	Investment trust and others	Fund management and operation, distribution of operating profit and others	Beneficiary (Investment) certificates	9,874,543
Structured Finance	Fund raising through project financing	Project financing for construction project and	Project financing and others	
		ship investment		19,487,943

<sup>(\*)</sup> The financial information of unconsolidated structured entity includes unaudited amounts.

### 2) Risks associated with interests in unconsolidated structured entities of the Group as of December 31, 2022 are as follows.

			Financial sup to the struc	Maximum amount of exposure to loss	
Description		alue in the red entity	Method	Purpose	of the structured entity
			(In millions o	f Korean Won)	
Asset securitization SPC	₩	70,208	Loan obligations	Loan agreement (Credit line)	₩ 77,000
Investment fund			Beneficiary certificates,	Invest agreement	
		238,424	Investment trust		238,424
Structured Finance		1,585,070	Loan obligations	Loan agreement (Credit line)	2,089,900

Risks associated with interests in unconsolidated structured entities of the Group as of December 31, 2021 are as follows.

			Financial su to the stru	Maximum amount of exposure to loss		
Description		value in the ured entity	Method	Purpose		tructured tity
			(In millions	of Korean Won)		
Asset			Loan	Loan agreement		
securitization SPC	₩	18,797	obligations	(Credit line)	₩	24,000
Investment fund			Beneficiary	Invest		
			certificates,	agreement		
		178,552	Investment trust	•		178,552
Structured Finance			Loan	Loan agreement		
		826,220	obligations	(Credit line)		1,117,599

#### (8) Significant restrictions on the subsidiaries

As of December 31, 2022, HYUNDAI CARD CO., LTD., a subsidiary of the Company, is subject to significant restrictions that require it to obtain consent from a nominated outside director recommended by non-controlling shareholders in the events of acquiring a company, entering into new business, providing guarantees, making investments in stocks or contracts beyond a certain amount and others.

#### (9) Changes in consolidated subsidiaries

Subsidiaries newly included in or excluded from consolidation during the year ended December 31, 2022 are as follows.

Changes	Name of subsidiaries	Description
Included	Autopia Seventy-Third Asset Securitization Specialty Company	Establishment
"	Autopia Seventy-Fourth Asset Securitization Specialty Company	"
"	Autopia Seventy-Fifth Asset Securitization Specialty Company	"
"	Super Series Twelfth Securitization Specialty Co., Ltd.	"
"	Super Series Thirteenth Securitization Specialty Co., Ltd.	"
"	Super Series Fourteenth Securitization Specialty Co., Ltd.	"
"	Hyundai Motor Group Metaplant America, LLC (HMGMA)	"
"	Hyundai Hydrogen Mobility Germany GmbH (HHMG)	"
"	HYUNDAI MOBILITY (THAILAND) CO., LTD. (HMT)	"
"	PT Hyundai Solusi Mobilitas (HSM)	"
"	42dot Inc.	Acquisition
"	42 Air, Inc	"
"	Movia Inc.	"
Excluded	supernal, LLC	Changed to equity method
"	Super Series Fifth Securitization Specialty Co., Ltd.	Liquidation
"	Autopia Sixty-fourth Asset Securitization Specialty Company	
"	KyoboAXA Private Tomorrow Securities Investment Trust No.12	"
"	Shinhan BNPP Private Corporate Security Investment Trust No.34	"
"	KB Leaders Private Securities Fund1(Bond Mixed)	"
"	Samsung ETF rotation Private Investment Trust 1	"
"	MoceanLab, Inc.	"
"	HYUNDAI ROTEM MALAYSIA SDN BHD	"

#### 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:

#### (1) Basis of consolidated financial statements preparation

The consolidated financial statements have been prepared in accordance with Korean International Financial Reporting Standards ("K-IFRS"), as prescribed in the Act on External Audit of Stock Companies, Etc in the Republic of Korea.

The significant accounting policies used for the preparation of the consolidated financial statements are summarized below. These accounting policies are consistent with those applied to the consolidated financial statements as of and for the year ended December 31, 2021, except for the new or amended accounting standards and interpretations described below.

1) New and amended standards that have been applied from the year beginning on January 1, 2022 are as follows.

The Group applied *Proceeds before Intended Use*(Amendments to K-IFRS 1016 '*Property, Plant and Equipment*'), Cost of Fulfilling a Contract(Amendments to K-IFRS 1037 '*Provisions, Contingent Liabilities and Contingent Assets*'), Annual Improvements to IFRS Standards 2018-2020, Reference to the Conceptual Framework(Amendments to K-IFRS 1103 'Business Combinations') and Covid-19-Related Rent Concessions beyond 30 June 2021(Amendments to K-IFRS 1116 'Leases') for the first time on January 1, 2022. These standards and other new accounting standards effective from January 1, 2022 do not have a material impact on the Group's consolidated financial statements.

2) A number of new standards are effective for annual periods beginning after January 1, 2022 and earlier application is permitted; however, the Group has not early adopted them in preparing these consolidated financial statements.

The Group is currently evaluating the effect of the following new or amended standards and interpretations, if any, to the consolidated financial statements, however, those standards are not expected to have a significant impact on the Group's consolidated financial statements.

- Classification of Liabilities as Current or Non-current (K-IFRS 1001 'Presentation of Financial Statements')
- K-IFRS 1117 'Insurance Contracts' and its amendments
- Disclosure of Accounting policies (K-IFRS 1001 'Presentation of Financial Statements')
- Definition of Accounting estimate (K-IFRS 1008 'Accounting Policies, Changes in Accounting Estimates and Errors')
- Deferred Tax related to Assets and Liabilities arising from a Single Transaction (K-IFRS 1012 'Income Taxes')
- Disclosure of Gains and Losses on Valuation of Financial Liabilities with Conditions for Adjustment of Exercise Price (K-IFRS 1001 'Presentation of Financial Statements')

The consolidated financial statements were approved by the Board of Directors on January 26, 2023 and are expected to be submitted for the Company's annual general meeting of shareholders.

#### (2) Basis of measurement

The consolidated financial statements have been prepared on the historical cost basis except as otherwise stated in the accounting policies below. Historical cost is usually measured at the fair value of the consideration given to acquire the assets.

#### (3) Basis of consolidations

The consolidated financial statements incorporate the financial statements of the Company and entities (including structured entities) controlled by the Company (or its subsidiaries). Control is achieved when the Company:

- has power over the investee;
- is exposed, or has rights, to variable returns from its involvement with the investee; and
- has the ability to use its power to affect its returns.

The Group reassesses whether or not it controls an investee if facts and circumstances indicate that there are changes to one or more of the three elements of control listed above.

When the Group has less than a majority of the voting rights of an investee, it has power over the investee when the voting rights are sufficient to give it the practical ability to direct the relevant activities of the investee unilaterally. The Group

considers all relevant facts and circumstances in assessing whether or not the Group's voting rights in an investee are sufficient to give it power, including:

- the size of the Group's holding of voting rights relative to the size and dispersion of holdings of the other vote holders;
- potential voting rights held by the Group, other vote holders or other parties;
- rights arising from other contractual arrangements; and
- any additional facts and circumstances that indicate that the Group has, or does not have, the current ability to direct the relevant activities at the time that decisions need to be made, including voting patterns at previous shareholders' meetings.

Income and expenses of subsidiaries acquired or disposed of during the period are included in the consolidated statements of comprehensive income from the effective date of acquisition and up to the effective date of disposal, as appropriate. When necessary, adjustments are made to the financial statements of subsidiaries to bring their accounting policies into line with those used by the Group. All intragroup transactions, balances, income and expenses are eliminated in full on consolidation. Non-controlling interests are presented in the consolidated statement of financial position within equity, separately from the equity of the owners of the Group. The carrying amount of non-controlling interests consists of the amount of those non-controlling interests at the initial recognition and the changes in shares of the non-controlling interests in equity since the date of the acquisition. Total comprehensive income is attributed to the owners of the Group and to the non-controlling interests even if the non-controlling interest has a deficit balance.

Changes in the Group's ownership interests in subsidiaries, without a loss of control, are accounted for as equity transactions. The carrying amounts of the Group's interests and the non-controlling interests are adjusted to reflect the changes in their relative interests in the subsidiaries. Any difference between the amount by which the non-controlling interests are adjusted and the fair value of the consideration paid or received is recognized directly in equity and attributed to owners of the Group.

When the Group loses control of a subsidiary, the profit or loss on disposal is calculated as the difference between (i) the aggregate of the fair value of the consideration received and the fair value of any retained interest and (ii) the previous carrying amount of the assets (including goodwill), liabilities of the subsidiary and any non-controlling interests. The amounts previously recognized in other comprehensive income and accumulated in equity are accounted for as if the Group had directly disposed of the relevant assets (i.e., reclassified to profit or loss or transferred directly to retained earnings as specified by applicable K-IFRS). The fair value of any investment retained in the former subsidiary at the date when control is lost is regarded as the fair value on initial recognition for subsequent accounting under K-IFRS 1109 Financial Instruments: Recognition and Measurement or, when applicable, the cost on initial recognition of an investment in an associate or a joint venture.

#### (4) Business combination

Acquisitions of businesses are accounted for using the acquisition method. The consideration transferred in a business combination is measured at fair value, which is calculated as the sum of the acquisition-date fair values of the assets transferred by the Group, liabilities incurred by the Group to the former owners of the acquiree and the equity interests issued by the Group in exchange for control of the acquiree. The consideration includes any asset or liability resulting from a contingent consideration arrangement and is measured at fair value.

Acquisition-related costs are recognized in profit or loss as incurred. When a business combination is achieved in stages, the Group's previously held equity interest in the acquiree is remeasured at its fair value at the acquisition date (i.e., the date when the Group obtains control) and the resulting gain or loss, if any, is recognized in profit or loss. Prior to the acquisition date, the amount resulting from changes in the value of its equity interest in the acquiree that have previously been recognized in other comprehensive income are reclassified to profit or loss where such treatment would be appropriate if that interest were directly disposed of.

#### (5) Revenue recognition

In accordance with K-IFRS 1115, all types of contracts recognize revenues by the 5-step revenue recognition model (1) identification of contract  $\rightarrow$  (2) identification of performance obligations  $\rightarrow$  (3) calculation of transaction price  $\rightarrow$  (4) allocation of transaction price to performance obligations  $\rightarrow$  (5) recognition of revenue when performance obligation is satisfied.

#### 1) Identification of performance obligations

The Group operates businesses such as the manufacture and sale of automobiles and auto parts. In the automobile sales contracts with customers, services other than automobile sales are separately identified as performance obligations.

#### 2) Performance obligations satisfied at a point in time

Revenue is recognized when the performance obligations under the terms of a contract with the Group's customer are satisfied, which generally occurs with the transfer of control of goods or services.

#### 3) Performance obligations satisfied over time

In assessing whether the control over goods or services is transferred over time, the Group evaluates whether the customer simultaneously obtains and consumes the benefits provided by the Group's performance, whether the assets are controlled by the customer, and whether the assets created by the Group have no substitute purpose, and whether the Group is entitled to reimbursement of costs incurred to date, including a reasonable margin.

#### 4) Allocation of transaction price

The Group allocates the transaction price to each of the performance obligations identified in a single contract in proportion to its stand-alone selling price. When the stand-alone selling price is not directly observable, the Group estimates the stand-alone selling price using the adjusted market assessment approach, or the expected cost plus a margin approach.

#### 5) Variable consideration

The Group estimates the amount of consideration it will be entitled to receive using the method (either the expected value method or the most likely amount method) that provides the most accurate prediction.

Variable consideration is included in the transaction price only to the extent that it is highly probable that a significant reversal in the cumulative amount of revenue recognized will not occur in future periods.

#### 6) Significant financing element

If the period between the transfer of the goods or services promised to the customer and the payment from the customer is within one year, the Group does not adjust the promised amount of consideration for the effects of a significant financing component, as a practical expedient.

#### 7) Construction contracts

Where the outcome of a construction contract can be estimated reliably, the contract revenue and contract costs associated with the construction contract are recognized as revenue and expenses, respectively, by reference to the stage of completion of the contract activity at the end of reporting period.

The percentage of completion of a contract activity is reliably measured based on the proportion of contract costs incurred for work performed to date relative to the estimated total contract costs, by surveys of work performed or by completion of a physical proportion of the contract work. Variations in contract work, claim and incentive payments are included to the extent that the amount can be measured reliably and its receipt is considered probable. Where the outcome of a construction contract cannot be estimated reliably, contract revenue is recognized to the extent of contract costs incurred that it is probable will be recoverable. Contract costs are recognized as expenses in the period in which they are incurred. When it is probable that total contract costs will exceed total contract revenue, the expected loss is recognized as an expense immediately.

#### (6) Foreign currency translation

The individual financial statements of each entity in the Group are prepared and presented in the currency of the primary economic environment in which the entity operates (its functional currency).

In preparing the financial statements of the individual entities, transactions occurring in currencies other than their functional currency (foreign currencies) are recorded using the exchange rate on the dates of the transactions. At the end of each reporting period, monetary items denominated in foreign currencies are translated using the exchange rate at the reporting period. Non-monetary items that are measured in terms of historical cost in a foreign currency are translated using the exchange rate at the date of the transaction. Non-monetary items that are measured at fair value in a foreign currency are translated using the exchange rates at the date when the fair value was determined. Exchange differences resulting from settlement of assets or liabilities and translation of monetary items denominated in foreign currencies are recognized in profit or loss in the period in which they arise except for some exceptions.

Foreign exchange gains or losses are classified in finance income (expenses) or other income (expenses) by the nature of the transaction or event.

For the purpose of presenting the consolidated financial statements, assets and liabilities in the Group's foreign operations are translated into Won, using the exchange rates at the end of reporting period. Income and expense items are translated at the average exchange rate for the period, unless the exchange rate during the period has significantly fluctuated, in which case the exchange rates at the dates of the transactions are used. The exchange differences arising, if any, are recognized in equity as other comprehensive income. Upon the disposal of a foreign operation, the cumulative amount of the exchange differences relating to that foreign operation is reclassified from equity to profit or loss when the gain or loss on disposal is recognized. Any goodwill arising on the acquisition of a foreign operation and any fair value adjustments to the carrying amounts of assets and liabilities arising on the acquisition of that foreign operation are treated as assets and liabilities of the foreign operation and translated at the exchange rate at the end of reporting period.

#### (7) Financial Assets

The Group classifies financial assets as financial assets measured at fair value through profit or loss, financial assets measured at amortized cost or financial assets measured at fair value through other comprehensive income according to the terms and purpose of acquisition. The Group determines the classification of a financial asset at initial recognition.

All recognized financial assets are measured subsequently in their entirety at either amortized cost or fair value, depending on the classification of the financial assets.

#### 1) Classification of financial assets

Debt instruments that meet the following conditions are measured subsequently at amortized cost:

- The financial asset is held within a business model whose objective is 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.

Debt instruments that meet the following conditions are measured subsequently at fair value through other comprehensive income (FVOCI):

- The financial asset is held within a business model whose objective is achieved by both collecting contractual cash flows and selling the financial assets; 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.

By default, all other financial assets are measured subsequently at fair value through profit or loss (FVPL). Despite the foregoing, the Group may make the following irrevocable election / designation at initial recognition of a financial asset:

- The Group may irrevocably elect to present subsequent changes in fair value of an equity investment in other comprehensive income if certain criteria are met; and
- The Group may irrevocably designate a debt investment that meets the amortized cost or FVOCI criteria as measured at FVPL if doing so eliminates or significantly reduces an accounting mismatch

#### 1-1) Amortization cost and effective interest rate method

The effective interest method is a method of calculating the amortized cost of a debt instrument and of allocating interest income over the relevant period. The amortized cost of a financial asset is the amount at which the financial asset is measured at initial recognition minus the principal repayments, plus the cumulative amortisation using the effective interest method of any difference between that initial amount and the maturity amount, adjusted for any loss allowance. The gross carrying amount of a financial asset is the amortized cost of a financial asset before adjusting for any loss allowance. Interest income is recognized using the effective interest method for debt instruments measured subsequently at amortized cost and at FVOCI.

#### 1-2) Debt instruments classified as at FVOCI

Corporate bonds are initially measured at fair value plus transaction costs. Subsequently, changes in the carrying amount of these corporate bonds as a result of foreign exchange gains and losses, impairment gains or losses, and interest income calculated using the effective interest method are recognized in profit or loss. The amounts that are recognized in profit or loss are the same as the amounts that would have been recognized in profit or loss if these corporate bonds had been measured at amortized cost. All other changes in the carrying amount of these corporate bonds are recognized in other comprehensive income and accumulated in investments revaluation reserve. When these corporate bonds are derecognized, the cumulative gains or losses previously recognized in other comprehensive income are reclassified to profit or loss.

#### 1-3) Equity instruments designated as at FVOCI

On initial recognition, the Group may make an irrevocable election (on an instrument-by-instrument basis) to designate investments in equity instruments as at FVOCI. Designation at FVOCI is not permitted if the equity investment is held for trading or if it is contingent consideration recognized by an acquirer in a business combination.

Investments in equity instruments at FVOCI are initially measured at fair value plus transaction costs. Subsequently, they are measured at fair value with gains and losses arising from changes in fair value recognized in other comprehensive income and accumulated in the investments revaluation reserve. The cumulative gain or loss will not be reclassified to profit or loss on disposal of the equity investments, instead, it is transferred to retained earnings.

#### 1-4) Financial assets measured at FVPL

Financial assets that do not meet the criteria for being measured at amortized cost or FVOCI are measured at FVPL. Gains or losses arising from changes in the fair value of FVPL, dividends and interest income from the financial assets are recognized in profit or loss.

#### 2) Foreign exchange gain / loss

The carrying amount of a financial asset designated as a foreign currency is determined in foreign currencies and is translated at the spot exchange rate at the end of the reporting period.

#### (8) Impairment of financial assets

The Group recognizes a loss allowance for expected credit losses on investments in debt instruments that are measured at amortized cost or at FVOCI, lease receivables, trade receivables and contract assets, as well as on financial guarantee contracts. The amount of expected credit losses is updated at each reporting date to reflect changes in credit risk since initial recognition of the respective financial instrument.

The Group always recognizes lifetime expected credit losses (ECL) for trade receivables, contract assets and lease receivables. The ECLs on these financial assets are estimated using a provision matrix based on the Group's historical credit loss experience and valuation of individual assets, adjusted for factors that are specific to the debtors, general economic conditions and an assessment of forecast on present and future conditions reflecting time value of money where appropriate.

For all other financial instruments, the Group recognizes lifetime ECLs when there has been a significant increase in credit risk since initial recognition. However, if the credit risk on the financial instrument has not increased significantly since initial recognition, the Group measures the loss allowance for that financial instrument at an amount equal to 12-month ECLs.

Lifetime ECL represents the expected credit losses that will result from all possible default events over the expected life of a financial instrument. In contrast, 12-month ECL represents the portion of lifetime ECL that is expected to result from default events on a financial instrument that are possible within 12 months after the reporting date.

#### 1) Significant increase in credit risk

In assessing whether the credit risk on a financial instrument has increased significantly since initial recognition, the Group compares the risk of a default occurring on the financial instrument at the reporting date with the risk of a default occurring on the financial instrument at the date of initial recognition.

In particular, the following information is taken into account when assessing whether credit risk has increased significantly since initial recognition:

- an actual or expected significant deterioration in the financial instrument's external (if available) or internal credit rating;
- other significant increases in credit risk;

#### 2) Definition of default

The Group believes that, based on past experience, if the debtor violates the terms of the contract, it is considered to constitute a default event for internal credit risk management purposes.

#### 3) Credit-impaired financial assets

A financial asset is credit-impaired when one or more events that have a detrimental impact on the estimated future cash flows of that financial asset have occurred. Evidence that a financial asset is credit-impaired includes the following observable data:

- (a) significant financial difficulty of the issuer or the borrower;
- (b) a breach of contract, such as a default or past due event as defined by the Group's internal policy;

#### 4) Measurements and recognition of expected credit losses

The measurement of ECLs is a function of the probability of default, loss given default (i.e. the magnitude of the loss if there is a default) and the exposure at default. The assessment of the probability of default and loss given default is based on historical data adjusted by forward-looking information as described above. As for the exposure at default, for financial assets, this is represented by the assets' gross carrying amount at the reporting date.

For financial assets, the ECLs are estimated as the difference between all contractual cash flows that are due to the Group in accordance with the contract and all the cash flows that the Group expects to receive, discounted at the original effective interest rate.

If the Group has measured the loss allowance for a financial instrument at an amount equal to lifetime ECLs in the previous reporting period, but determines at the current reporting date that the conditions for lifetime ECLs are no longer met, the Group measures the loss allowance at an amount equal to 12-month ECLs at the current reporting date, except for financial assets for which a simplified approach is used.

The Group recognizes an impairment gain or loss in profit or loss for all financial instruments with a corresponding adjustment to their carrying amount through a loss allowance account, except for investments in debt instruments that are measured at FVOCI, for which the loss allowance is recognized in other comprehensive income and accumulated in the investment revaluation reserve, and does not reduce the carrying amount of the financial asset in the statement of financial position.

#### (9) Derecognition of financial assets

The Group derecognizes a financial asset only when the contractual rights to the cash flows from the asset expire, or when it transfers the financial asset and substantially all the risks and rewards of ownership of the asset to another entity. If the Group neither transfers nor retains substantially all the risks and rewards of ownership and continues to control the transferred asset, the Group recognizes its retained interest in the asset and an associated liability for amounts it may have to pay. If the Group retains substantially all the risks and rewards of ownership of a transferred financial asset, the Group continues to recognize the financial asset and also recognizes a collateralized borrowing for the proceeds received.

On derecognition of a financial asset measured at amortized cost, the difference between the asset's carrying amount and the sum of the consideration received and receivable is recognized in profit or loss. In addition, on derecognition of an investment in a debt instrument classified as at FVOCI, the cumulative gain or loss previously accumulated in the investments revaluation reserve is reclassified to profit or loss. In contrast, on derecognition of an investment in equity instrument which the Group has elected on initial recognition to measure at FVOCI, the cumulative gain or loss previously accumulated in the investments revaluation reserve is not reclassified to profit or loss, but is transferred to retained earnings.

#### (10) Inventory

Inventory is measured at the lower of cost or net realizable value. Inventory cost, including the fixed and variable manufacturing overhead cost, is calculated, using the moving average method, except for the cost for inventory in transit, which is determined by the specific identification method.

#### (11) Investments in associates and joint ventures

An associate is an entity over which the Group has significant influence, but not a joint venture or a subsidiary. Significant influence is the power to participate in the financial and operating policy decisions of the investee, but is not control or joint control over those policies.

A joint venture is a joint arrangement, whereby the parties that have joint control of the arrangement have rights to the net assets of the joint arrangement. Joint control is the contractually agreed sharing of control of an arrangement, which exists only when decisions about the relevant activities require unanimous consent of the parties sharing control.

The investment in an associate or a joint venture is initially recognized at cost and accounted for using the equity method. Under the equity method, an investment in an associate or a joint venture is initially recognized in the consolidated statement of financial position at cost and adjusted thereafter to recognize the Group's share of the profit or loss and other comprehensive income of the associate or the joint venture.

When the Group's share of losses of an associate or a joint venture exceeds the Group's interest in that associate or joint venture (which includes any long-term interests that, in substance, form part of the Group's net investment in the associate or the joint venture), the Group discontinues recognizing its share of further losses. Additional losses are recognized only to the extent that the Group has incurred legal or constructive obligations or made payments on behalf of the associate or the joint venture.

Investment in associate or joint venture is accounted for using the equity method from the date that the investee becomes the associate or joint venture. Any excess of the cost of acquisition over the Group's share of the net fair value of the identifiable assets, liabilities and contingent liabilities of an associate or a joint venture recognized at the date of acquisition is recognized as goodwill, which is included within the carrying amount of the investment.

Any excess of the Group's share of the net fair value of the identifiable assets, liabilities and contingent liabilities over the cost of acquisition, after reassessment, is recognized immediately in profit or loss.

The requirements of K-IFRS 1028 are applied to determine whether it is necessary to recognize any impairment loss with respect to the Group's investment in an associate or a joint venture. When there is any indication of impairment, the entire carrying amount of the investment (including goodwill) is tested for impairment in accordance with K-IFRS 1036 as a single asset by comparing its recoverable amount (higher of value in use and fair value less costs of disposal) with its carrying amount. Any impairment loss recognized is not allocated to any asset, including goodwill that forms part of the carrying amount of the investment. Any reversal of that impairment loss is recognized in accordance with K-IFRS 1036 to the extent that the recoverable amount of the investment subsequently increases.

Upon disposal of an associate or a joint venture that results in the Group losing significant influence over that associate or joint venture, any retained investment is measured at fair value at that date and the fair value is regarded as its fair value on initial recognition as a financial asset in accordance with K-IFRS 1109. The difference between the previous carrying amount of the associate or joint venture attributable to the retained interest and its fair value is included in the determination of the gain or loss on disposal of the associate or joint venture. In addition, the Group accounts for all amounts previously recognized in other comprehensive income in relation to that associate or joint venture on the same basis we would be required if that associate or joint venture had directly disposed of the related assets or liabilities. Therefore, if a gain or loss previously recognized in other comprehensive income by that associate or joint venture would be reclassified to profit or loss on the disposal of the related assets or liabilities, the Group reclassifies the gain or loss from equity to profit or loss (as reclassification adjustment) when it loses significant influence over that associate or joint venture. When the Group reclassifies to profit or loss the proportion of the gain or loss that had previously been recognized in other comprehensive income relating to that reduction in ownership interest if that gain or loss would be reclassified to profit or loss on the disposal of the related assets or liabilities. In addition, the Group applies K-IFRS 1105 to a portion of investment in an associate or a joint venture that meets the criteria to be classified as held for sale.

The Group continues to use the equity method when an investment in an associate becomes an investment in a joint venture or an investment in a joint venture becomes an investment in an associate. There is no remeasurement to fair value upon such changes in ownership interests.

Unrealized gains from transactions between the Group and its associates or joint ventures are eliminated up to the shares in associate (joint venture) stocks. Unrealized losses are also eliminated, unless evidence of impairment in assets transferred is produced. If the accounting policy of associates or joint ventures differs from the Group, financial statements are adjusted accordingly before applying equity method of accounting.

#### (12) Property, plant and equipment

Property, plant and equipment is recognized if, and only if it is probable that future economic benefits associated with the asset will flow to the Group, and the cost of the asset can be measured reliably. After the initial recognition, property, plant and equipment is stated at cost less accumulated depreciation and accumulated impairment losses. The cost includes any cost directly attributable to bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by management and the initial estimate of the costs of dismantling and removing the item and restoring the site on which it is located. In addition, in case the recognition criteria are met, the subsequent costs will be added to the carrying amount of the asset or recognized as a separate asset, and the carrying amount of what was replaced is derecognized.

Depreciation is computed using the straight-line method based on the estimated useful lives of the assets. The representative useful lives are as follows.

	Representative useful lives (years)
Buildings and structures	12 - 50
Machinery and equipment	6 - 15
Vehicles	6 - 15
Dies, mold and tools	4 - 6
Office equipment	3 - 15
Other	2 - 20

The Group reviews the depreciation method, the estimated useful lives and residual values of property, plant and equipment at the end of each annual reporting period. If expectations differ from previous estimates, the changes are accounted for as a change in accounting estimate.

#### (13) Investment properties

Investment properties are property held to earn rentals or for capital appreciation or both. Investment properties are measured initially at its cost and transaction costs are included in the initial measurement. After initial recognition, the book value of investment properties is presented at the cost less accumulated depreciation and accumulated impairment losses.

Subsequent costs are recognized as the carrying amount of the asset when, and only when it is probable that future economic benefits associated with the asset will flow to the Group, and the cost of the asset can be measured reliably, or recognized as a separate asset if appropriate. The carrying amount of what was replaced is derecognized.

Land is not depreciated, and other investment properties are depreciated using the straight-line method over the period from 20 to 50 years. The Group reviews the depreciation method, the estimated useful lives and residual values at the end of each annual reporting period. If expectations differ from previous estimates, the changes are accounted for as a change in accounting estimate.

#### (14) Intangible assets

#### 1) Goodwill

Goodwill arising from a business combination is recognized as an asset at the time of obtaining control (the acquisition date). Goodwill is measured as the excess of the aggregate of the consideration transferred, the amount of any non-controlling interest in the acquiree and the acquisition-date fair value of the Group's previously held equity interest in the acquiree over the net of the acquisition-date amounts of the identifiable assets acquired and the liabilities assumed.

If, after reassessment, the net of the acquisition-date amounts of the identifiable assets acquired and the liabilities assumed exceeds the aggregate of the consideration transferred, the amount of any non-controlling interest in the acquiree, and the acquisition-date fair value of the Group's previously held equity interest in the acquiree, the excess is recognized immediately in profit or loss as a bargain purchase gain.

Goodwill is not amortized, but tested for impairment at least annually. For purposes of impairment tests, goodwill is allocated to those cash-generating units ("CGU") of the Group expected to have synergies from the business combination. CGU that goodwill has been allocated is tested for impairment every year or when an event occurs that indicates impairment.

If the recoverable amount of a CGU is less than its carrying amount, the impairment will first decrease the goodwill allocated to that CGU and the remaining impairment will be allocated among other assets relative to its carrying value. Impairment recognized for goodwill may not be reversed. When disposing a subsidiary, related goodwill will be included in gain or loss from disposal.

#### 2) Development costs

The expenditure on research is recognized as an expense when it is incurred. The expenditure on development is recognized as an intangible asset, and amortization is computed using the straight-line method based on the estimated useful lives of the assets since the asset is available for use or sale.

Research and development activities are conducted in phases of preceding research, development approval, product development and mass production. The Group generally recognizes intangible assets as development activities after the development approval phases which product specification, release schedule, and sales plan are established. Expenditure incurred at the previous phase is recognised as an expense as it is considered as research activities when it is incurred.

#### 3) Intangible assets acquired separately

Intangible assets are measured initially at cost, and are subsequently measured at cost less accumulated amortization and accumulated impairment losses.

Intangible assets are amortized by the straight-line method based on estimated useful lives from the date of availability. The Group reviews the estimated useful life and amortization method at the end of each annual reporting period. If expectations differ from previous estimates, the changes are accounted for as a change in accounting estimate. Intangible assets assessed as having indefinite useful life such as club membership are subjected to impairment test at least once a year without amortization.

The representative useful lives are as follows.

	Representative useful lives (years)
Development costs	3, 7
Industrial property rights	5 - 10
Software	3 - 7
Other	5 - 40

#### (15) Impairment of non-financial assets

The Group assesses at the end of each reporting period whether there is any indication that an asset may be impaired. If any such indication exists, the Group estimates the recoverable amount of the asset to determine the extent of the impairment loss. Recoverable amount is the higher of fair value less costs to sell and value in use. If the cash inflows of an individual asset are largely independent from other assets or group of assets, the recoverable amount is measured for that individual asset; otherwise, it is measured for the cash generating unit (CGU) to which the asset belongs. An impairment loss in respect of goodwill is not reversed. For other assets, impairment loss is reversed if the recoverable amount increases in subsequent years, but only to the extent that the asset's carrying amount does not exceed the carrying amount that would have been determined, net of depreciation or amortization, if no impairment loss had been recognized.

Intangible assets with indefinite useful lives or intangible assets not yet available for use are not amortized, but tested for impairment annually.

#### (16) Non-current assets classified as held for sale

The Group classifies a non-current asset (or disposal group) as held for sale, if its carrying amount will be recovered principally through a sale transaction rather than through continuing use. For this to be the case, the asset (or disposal group) must be available for immediate sale in its present condition subject only to terms that are usual and customary for sales of such assets (or disposal groups) and its sale must be highly probable. The management must be committed to a plan to sell the asset (or disposal group), and the sale should be expected to qualify for recognition as a completed sale within one year from the date of classification.

Non-current assets (or disposal group) classified as held for sale are measured at the lower of their carrying amount and fair value, less costs to sell.

#### (17) Lease

At contract inception, the Group assesses whether a contract is or contains a lease. A contract is, or contains, a lease if the contract conveys a right to control the use of an identified asset for a period of time in exchange for consideration. When assessing whether the contract conveys a right to control the use of an identified asset, definition of a lease under K-IFRS 1116 has been applied.

#### 1) As a lessee

At inception or effective date of change, the Group allocates the consideration in the contract to each lease on the basis of their relative stand-alone prices. However, for leases of properties in which it is a lessee, the Group has elected not to separate non-lease components and will instead account for the lease and non-lease components as a single lease component.

The Group recognizes a right-of-use asset and lease liability at the lease commencement date. The right-of-use asset is initially measured at cost, which comprises the initial amount of the lease liability adjusted for any lease payments made at or before the commencement date, plus any initial direct costs incurred and an estimate of costs to dismantle and remove the underlying asset or to restore the underlying asset or the site on which it is located, less any lease incentive received.

The right-of use asset is subsequently depreciated using the straight-line method from the commencement date to the end of the lease term, unless the lease transfers ownership of the underlying asset to the Group by the end of the lease term or the cost of the right-of-use asset reflects that the Group will exercise a purchase option. In that case the right-of-use asset will be depreciated over the useful life of the underlying asset, which is determined on the same basis as those of property and equipment. In addition, the right-of use asset is periodically reduced by impairment losses, if any, and adjusted for certain remeasurements of the lease liability.

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

When the lease liability is remeasured, a corresponding adjustment is made to the carrying amount of the right-of-use asset, or is recorded in profit or loss if the carrying amount of the right-of-use asset has been reduced to zero.

The Group has elected not to recognize right-of-use assets and lease liabilities for leases of low-value assets and short-term leases. The Group recognizes the lease payments associated with these leases as an expense on a straight-line basis over the lease term.

#### 2) As a lessor

The accounting policies applicable in the same period to the Group as a lessor are not different from those under K-IFRS 1116. When the Group acted as a lessor, it determined at lease inception whether each lease was a finance lease or an operating lease. To classify each lease, the Group made an overall assessment of whether the lease transferred substantially all of the risks and rewards incidental to ownership of the underlying asset. If this was the case, then the lease was a finance lease; if not, then it was an operating lease.

Amounts due from lessees under finance leases are recognized as receivables at the amount of the Group's net investment in the leases. Finance lease interest income is allocated to accounting periods so as to reflect an effective interest rate on the Group's net investment outstanding in respect of the leases. Rental income from operating leases is recognized on a straight-line basis over the term of the relevant lease. Initial direct costs incurred in negotiating and arranging an operating lease are added to the carrying amount of the carrying amount of investments in operating leases and recognized as expense on a straight-line basis over the lease term.

#### (18) Borrowing costs

Borrowing costs directly attributable to the acquisition, construction or production of qualifying assets are capitalized to the cost of those assets, until they are ready for their intended use or sale. A qualifying asset is an asset that necessarily takes a substantial period of time to get ready for its intended use or sale. Investment income earned on the temporary investment of specific borrowings pending their expenditure on qualifying assets is deducted from the borrowing costs eligible for capitalization. All other borrowing costs are recognized in profit or loss in the period in which they are incurred.

#### (19) Retirement benefit plans

The retirement benefit obligation recognized in the consolidated statements of financial position represents the present value of the defined benefit obligation, less the fair value of plan assets. Defined benefit obligations are calculated by an actuary using the Projected Unit Credit Method.

The present value of the defined benefit obligations is measured by discounting estimated future cash outflows by the interest rate of high-quality corporate bonds, with similar maturity as the expected post-employment benefit payment date. In countries where there is no deep market in such bonds, the market yields at the end of the reporting period on government bonds are used.

The remeasurements of the net defined benefit liabilities (assets) comprising actuarial gain or loss from changes in actuarial assumptions or differences between actuarial assumptions and actual results, the effect of the changes to the asset ceiling and return on plan assets, excluding amounts included in net interest on the net defined benefit liabilities (assets), are recognized in other comprehensive income of the consolidated statements of comprehensive income, which is immediately recognized as retained earnings. Those recognized in retained earnings will not be reclassified in profit or loss. Past service costs are recognized in profit and loss when the plan amendment occurs, and net interest is calculated by applying the discount rate determined at the beginning of the annual reporting period to the net defined benefit liabilities (assets). Defined benefit costs are composed of service cost (including current service cost, past service cost, as well as gains and losses on settlements), net interest expense (income), and remeasurements.

The retirement benefit obligation recognized in the consolidated statements of financial position represents the actual deficit or surplus in the Group's defined benefit plans. Any surplus resulting from this calculation is limited to the present value of any economic benefits available in the form of refunds from the plans or reductions in future contributions to the plans.

Contributions to defined contribution retirement benefit plans are recognized as expenses when employees provide services eligible for payment.

#### (20) Provisions

A provision is 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 consideration required to settle the present obligation at the end of the reporting period, taking into account the risks and uncertainties surrounding the obligation. A provision is measured using the present value of the cash flows estimated to settle the present obligation. The increase in provision due to passage of time is recognized as interest expense.

The Group recognizes provisions for costs expected to be incurred in the future for the repair of regular parts within the warranty period based on historical experience and compensation for accidents caused by defects in the exported products or parts of the product when such amounts are probable of payment. Also, the Group recognizes provisions for the probable losses of unused loan commitment, construction contracts, pre-contract sale or service contract due to legal or constructive obligations. In addition, the Company recognizes provisions expected to be paid in the future with regard to long-term employee benefits payable to long-term employees.

When some or all of the economic benefits required to settle a provision are expected to be recovered from a third party, a receivable is recognized as an asset if it is virtually certain that reimbursement will be received and the amount of the receivable can be measured reliably.

#### (21) Taxation

Income tax expense is composed of current and deferred tax.

#### 1) Current tax

The current tax is computed based on the taxable profit for the current year. The taxable profit differs from the profit before income tax as reported in the consolidated statements of income because it excludes items of income or expense that are taxable or deductible in other years and it further excludes items that are never taxable or deductible. The Group's current tax liability is calculated using tax rates that have been enacted or substantively enacted by the end of the reporting period. The amount of current tax payable or receivable is the best estimate of the tax amount expected to be paid or received that reflects uncertainty related to income taxes, if any.

#### 2) Deferred tax

Deferred tax is recognized on temporary differences between the carrying amounts of assets and liabilities in the consolidated financial statements and the corresponding tax bases used in the computation of taxable profit. Deferred tax liabilities are generally recognized for all taxable temporary differences. Deferred tax assets shall be generally recognized for all deductible temporary differences to the extent that it is probable that taxable profits will be available against which those deductible temporary differences can be utilized. Such deferred tax assets and liabilities shall not be recognized if the temporary difference arises from goodwill or from the initial recognition (other than in a business combination) of other assets and liabilities in a transaction that affects neither the taxable profit nor the accounting profit.

Deferred tax liabilities are recognized for taxable temporary differences associated with investments in subsidiaries and associates and interests in joint ventures, except when the Group is able to control the timing of the reversal of the temporary difference, and it is probable that the temporary difference will not reverse in the foreseeable future. Deferred tax assets arising from deductible temporary differences associated with such investments and interests are only recognized to the extent that taxable profit will be available against which the temporary difference can be utilized and they are expected to be reversed in the foreseeable future.

The carrying amount of deferred tax assets is reviewed at the end of each reporting period and reduced to the extent that it is no longer probable that sufficient taxable profits will be available to allow all or part of the asset to be recovered.

Deferred tax assets and liabilities are measured at the tax rates that are expected to be applied in the period in which the liability is settled or the asset is realized, based on tax rates and tax laws that have been enacted or substantively enacted by the end of the reporting period. The measurement of deferred tax assets and liabilities reflects the tax consequences that would follow from the manner in which the Group expects to recover or settle the carrying amount of its assets and liabilities at the end of the reporting period.

Deferred tax assets and liabilities are offset when there is a legally enforceable right to offset current tax assets against current tax liabilities and when they relate to income tax levied by the same taxation authority. Also, they are offset when different taxable entities that intend either to settle current tax liabilities and assets on a net basis, or to realize the assets and settle the liabilities simultaneously, in each future period in which significant amounts of deferred tax liabilities or assets are expected to be settled or recovered.

## 3) Recognition of current and deferred taxes

Current and deferred taxes are recognized in profit or loss, except when they relate to items that are recognized in other comprehensive income or directly in equity, or items arising from initial accounting treatments of a business combination. The tax effect arising from a business combination is included in the accounting for the business combination.

## (22) Treasury stock

When the Group repurchases its equity instruments (treasury stock), the incremental costs and net of tax effect are deducted from equity and recognized as other capital item deducted from the total equity in the consolidated statements of financial position. In addition, profits or losses from purchase, sale or retirement of treasury stocks are directly recognized in equity and not in current profit or loss.

## (23) Financial liabilities and equity instruments

Debt instruments and equity instruments issued by the Group are recognized as financial liabilities or equity depending on the contract and the definitions of financial liability and equity instrument.

#### 1) Equity instruments

An equity instrument is any contract that evidences a residual interest in the assets of an entity after deducting all of its liabilities. Equity instruments issued by the Group are recognized at the proceeds received, net of direct issue costs.

Repurchase of the Company's own equity instruments is recognized and deducted directly in equity. No gain or loss is recognized in profit or loss on the purchase, sale, issue or cancellation of the Company's own equity instruments.

# 2) Financial guarantee liability

A financial guarantee contract is a contract that the issuer must pay a certain amount of money to compensate for losses incurred by the holder due to the failure of a specific debtor to pay the due date on the original contract or modified terms of the debt instrument. Financial guarantee liabilities are measured initially at fair value and subsequently measured at the greater of the following, unless they are designated as at fair value through profit or loss or arising from the transfer of assets.

- Loss provision calculated in accordance with K-IFRS 1109
- The amount recognized less the accumulated profits recognized in accordance with K-IFRS 1115

## 3) Financial liabilities measured at FVPL

Financial liabilities are classified as at FVPL when the financial liability is (i) contingent consideration of an acquirer in a business combination, (ii) held for trading or (iii) it is designated as at FVPL as of the date of initial recognition.

However, for financial liabilities that are designated as at FVPL, the amount of change in the fair value of the financial liability that is attributable to changes in the credit risk of that liability is recognized in other comprehensive income, unless the recognition of the effects of changes in the liability's credit risk in other comprehensive income would create or enlarge an accounting mismatch in profit or loss. The remaining amount of change in the fair value of liability is recognized in profit or loss. Changes in fair value attributable to a financial liability's credit risk that are recognized in other comprehensive income are not subsequently reclassified to profit or loss; instead, they are transferred to retained earnings upon derecognition of the financial liability. Gains or losses on financial guarantee contracts issued by the Group that are designated by the Group as at FVPL are recognized in profit or loss.

### 4) Financial liabilities measured subsequently at amortized cost

Financial liabilities that are not (i) contingent consideration of an acquirer in a business combination, (ii) held for trading, or (iii) designated as at FVPL as of the date of initial recognition, are measured subsequently at amortized cost using the effective interest method. The effective interest method is a method of calculating the amortized cost of a financial liability and of allocating interest expense over the relevant period.

## 5) Derecognition of financial liabilities

The Group derecognizes financial liabilities when, and only when, the Group's obligations are discharged, cancelled or have expired. The difference between the carrying amount of the financial liability derecognized and the consideration paid and payable is recognized in profit or loss.

### (24) Derivatives

Derivatives are initially recognized at fair value at the date the derivative contracts are entered into and are subsequently remeasured to their fair value at the end of each reporting period. The resulting gain or loss is recognized in profit or loss immediately, unless the derivative is designated and effective as a hedging instrument, in such case, the timing of the recognition in profit or loss depends on the nature of the hedge relationship.

The Group designates certain derivatives as hedging instruments to hedge the risk of changes in fair value of a recognized asset or liability or an unrecognized firm commitment (fair value hedges) and the risk of changes in cash flow of a highly probable forecast transaction and the risk of changes in foreign currency exchange rates of firm commitment (cash flow hedges).

### 1) Fair value hedges

The Group recognizes the changes in the fair value of derivatives that are designated and qualified as fair value hedges are recognized in profit or loss immediately, together with any changes in the fair value of the hedged asset or liability that are attributable to the hedged risk. Hedge accounting is discontinued when the Group revokes the hedging relationship, when the hedging instrument expires or is sold, terminated or exercised, or when it is no longer qualified for hedge accounting. The fair value adjustment to the carrying amount of the hedged item arising from the hedged risk is amortized to profit or loss from that date.

# 2) Cash flow hedges

The effective portion of changes in the fair value of derivatives that are designated and qualified as cash flow hedges is recognized in other comprehensive income. The gain or loss relating to the ineffective portion is recognized immediately in profit or loss. Amounts previously recognized in other comprehensive income and accumulated in equity are reclassified to profit or loss in the periods when the hedged item affects profit or loss. If the forecast transaction results in the recognition of a non-financial asset or liability, the related gain and loss recognized in other comprehensive income and accumulated in equity are transferred from equity to the initial cost of related non-financial asset or liability.

Cash flow hedge accounting is discontinued when the Group revokes the hedging relationship, when the hedging instrument expires or is sold, terminated or exercised, or it no longer qualifies for the criteria of hedging. Any gain or loss accumulated in equity at that time remains in equity, and is recognized as profit or loss when the forecast transaction occurs. When the forecast transaction is no longer expected to occur, the gain or loss accumulated in equity is recognized immediately in profit or loss.

## (25) Fair value

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date, regardless of whether that price is directly observable or estimated using another valuation technique. In estimating the fair value of an asset or a liability, the Group takes into account the characteristics of the asset or liability if market participants would take those characteristics into account when pricing the asset or liability at the measurement date. Fair value for measurement and/or disclosure purposes in these consolidated financial statements is determined on such a basis, except for leasing transactions that are within the scope of K-IFRS 1116 *Leases*, and measurements that have some similarities to fair value, but are not fair value, such as net realisable value in K-IFRS 1002 *Inventories* or value in use in K-IFRS 1036 *Impairment of Assets*.

In addition, for financial reporting purposes, fair value measurements are categorized into Levels 1, 2 or 3, based on the degree to which the inputs to the fair value measurements are observable and the significance of the inputs to the fair value measurement in its entirety, which are described in Note 20.

# (26) Accounting Treatment related to the Emission Rights Cap and Trade Scheme

The Group classifies the emission rights as intangible assets. The emission rights allowances received from the government free of charge are measured at zero, while purchased emission rights allowances are measured at cost. No emission liability is recognized if the expected quantity of emission for the performing period does not exceed the emission allowance in possession. If the expected emissions exceed the emission allowances held, the emission liability is measured and recognized based on the expected excess quantity of emissions and the market unit price of the emission rights at the end of the reporting period.

### (27) Significant accounting estimates and key sources of estimation uncertainties

In the application of the Group's accounting policies, management is required to make judgments, estimates and assumptions about the carrying amounts of assets and liabilities that cannot be identified from other sources. The estimation and assumptions are based on historical experience and other factors that are considered to be relevant. Actual results may be different from those estimations. The estimates and underlying assumptions are continually evaluated. Revisions to accounting estimates are recognized in the period in which the estimate is revised if the revision affects only that period or in the period of the revision and future periods if the revision affects both current and future periods.

Information about assumptions and estimation uncertainties at December 31, 2022 that have a significant risk of resulting in a material adjustment to the carrying amounts of assets and liabilities in the next financial year is as follows.

### 1) Impairment test for goodwill and non-financial assets

Determining whether goodwill and non-financial asset is impaired requires an estimation of the value in use of the CGU to which goodwill has been allocated and value in use of non-financial assets. The value in use calculation requires the management to estimate the future cash flows expected to arise from the CGU and a suitable discount rate in order to calculate present value.

## Warranty provision

The Group recognizes provisions for the warranties of its products as described in Note 2.(20). The amounts are recognized based on the best estimate of amounts necessary to settle the present and future warranty obligation.

### 3) Defined benefit plans

The Group operates defined retirement benefit plans. Defined benefit obligations are determined at the end of each reporting period using an actuarial valuation method that requires management assumptions on discount rates, rates of expected future salary increases and mortality rates. The characteristic of post-employment benefit plan that serves for the long term period causes significant uncertainties when the post-employment benefit obligation is estimated.

## 4) Taxation

The Group recognizes current tax and deferred tax based on the best estimates of income tax effect to be charged in the future as the result of operating activities until the end of the reporting period. However, actual final income tax to be charged in the future may differ from the relevant assets and liabilities recognized at the end of the reporting period and the difference may affect income tax charged or credited, or deferred tax assets and liabilities in the period in which the final income tax determined.

# 5) Fair value of financial instruments

The Group uses valuation techniques that include inputs that are not based on observable market data to estimate the fair value of certain type of financial instruments. The Group makes judgements on the choice of various valuation methods and assumptions based on the condition of the principal market at the end of the reporting period.

### 6) Measurement and useful lives of property, plant, equipment or intangible assets

When the Group acquires property, plant, equipment or intangible assets from a business combination, it is required to estimate the fair value of the assets at the acquisition date and determine the useful lives of such assets for depreciation and amortization.

#### 7) Credit loss allowance

The Group sets credit loss allowance upon evaluation of impairment relating to account receivables and financial services receivables as described in Note 2.(8). The precision in loss allowance is based on the estimation of expected cash flow and assumptions and variables of risk measurement model used for the estimation.

## 3. TRADE NOTES AND ACCOUNTS RECEIVABLE:

## (1) Trade notes and accounts receivable as of December 31, 2022 and December 31, 2021 are as follows.

	December 31, 2022					December 31, 2021		
Description	Current		No	n-current	Current		No	n-current
		_	(In n	nillions of Ko	rean	Won)		
Trade notes and accounts receivable	₩	4,298,915	₩	200,400	₩	3,190,030	₩	145,648
Loss allowance		(19,858)		(5,028)		(42,734)		(773)
Present value discount accounts				(15,591)		<u>-</u> .		(7,718)
	₩	4,279,057	₩	179,781	₩	3,147,296	₩	137,157

## (2) Aging analysis of trade notes and accounts receivable

As of December 31, 2022, aging analysis of total trade notes and accounts receivable that are past due, but not impaired are as follows.

		Overdue	Overdue Within 180days	Overdue		Amount of
Description	Not due	Within 90days	More than 91days	More than 181 days	Total amounts	impaired receivables
			(In millions o	f Korean Won)		
Total trade note and accounts receivable	₩ 4,225,436	₩ 192,913	₩ 7,766	₩ 73,200	₩ 4,499,315	₩ 24,886

As of December 31, 2021, aging analysis of total trade notes and accounts receivable that are past due, but not impaired are as follows.

					erdue ithin						
Description	Not due	Overdue 180days Overdue Within More than More than		re than	;	Total amounts	im	nount of npaired eivables			
<u> </u>			•	(In m	illions of	Korea	ın Won)				
Total trade note and accounts receivable	₩ 2,998,927	₩	249,201	₩	5,437	₩	82,113	₩	3,335,678	₩	43,507

### (3) Transferred trade notes and accounts receivable that are not derecognized

As of December 31, 2022 and December 31, 2021, total trade notes and accounts receivable (including inter-company receivables within the Group) which the Group transferred to financial institutions but did not qualify for derecognition, amount to  $\mathbb{W}2,123,379$  million and  $\mathbb{W}3,059,551$  million, respectively. Cash and cash equivalents received as consideration for the transfer are recognized as short-term borrowings due to the fact that the risks and rewards were not transferred substantially.

# (4) Changes in loss allowance for the years ended December 31, 2022 and December 31, 2021 are as follows

Description		2022	2021					
	(In millions of Korean Won)							
Beginning of the year	₩	43,507	₩	55,210				
Impairment loss (reversal)		(940)		2,204				
Write-off		(20,769)		(14,307)				
Effect of foreign exchange differences and others		3,088		400				
End of the year	₩	24,886	₩	43,507				

# 4. <u>OTHER RECEIVABLES</u>:

(1) Other receivables as of December 31, 2022 and December 31, 2021 are as follows.

	December 31, 2022					December 31, 2021		
Description	Current		No	n-current	Current		No	on-current
	(In millions of Korean Won)							
Accounts receivable – others (*)	₩	3,143,232	₩	418,541	₩	2,785,799	₩	373,569
Due from customers for contract work		1,413,886		-		1,421,108		-
Lease and rental deposits		17,471		323,362		24,105		310,536
Deposits		12,854		40,740		7,289		33,469
Others		5,631		38,407		3,546		23,594
Loss allowance		(134,385)		_		(20,877)		
	₩	4,458,689	₩	821,050	₩	4,220,970	₩	741,168

<sup>(\*)</sup> As of December 31, 2022 and December 31, 2021, the Group recognized the reimbursement related to the warranty provisions as a separate asset in the amount of ₩1,045,159 million and ₩1,091,859 million, respectively.

(2) Changes in other allowance for the years ended December 31, 2022 and December 31, 2021 are as follows.

Description		2022	2021					
	(In millions of Korean Won)							
Beginning of the year	₩	20,877	₩	18,169				
Impairment loss		130,650		517				
Write-off		(971)		(871)				
Effect of foreign exchange differences		(16,171)		3,062				
End of the year	₩	134,385	₩	20,877				

# 5. OTHER FINANCIAL ASSETS:

(1) Other financial assets as of December 31, 2022 are as follows.

December 31, 2022						
Current Non-curre						
(In millions of Korean Won)						
₩	5,366,752	₩	343,594			
	66,044		2,773,537			
	25,404		12,494			
	476,545		760,151			
₩	5,934,745	₩	3,889,776			
	₩	Current (In millions of   ₩ 5,366,752 66,044 25,404 476,545	Current         N           (In millions of Korean           ₩         5,366,752         ₩           66,044         25,404           476,545         ₩			

Other financial assets as of December 31, 2021 are as follows.

	December 31, 2021						
Description		Von-current					
		(In millions of	ons of Korean Won)				
Financial assets measured at FVPL	₩	12,249,980	₩	222,120			
Financial assets measured at FVOCI		25,150		2,886,373			
Financial assets measured at amortized cost		18,466		8,729			
Derivative assets that are effective hedging instruments		103,050		422,064			
	₩	12,396,646	₩	3,539,286			

(2) Financial assets measured at FVOCI as of December 31, 2022 and December 31, 2021 are as follows.

December 31, 2022					December 31, 2021		
Acquisit	ion						
cost		Во	Book value		Book value		
		(In million	s of Korean Won	)			
₩	532,805	₩	499,193	₩	450,711		
	2,769,268		2,340,388		2,460,812		
₩	3,302,073	₩	2,839,581	₩	2,911,523		
	cost	202 Acquisition cost  ₩ 532,805 2,769,268	2022  Acquisition	2022  Acquisition  cost  Book value  (In millions of Korean Won	2022  Acquisition  cost  Book value  (In millions of Korean Won)  ₩ 532,805 ₩ 499,193 ₩ 2,769,268 2,340,388		

- (\*) The Group makes an irrevocable election to present in other comprehensive income subsequent changes in the fair value of an investment in an equity instrument that is not held for trading at the date of initial recognition.
- (3) Equity instruments classified into financial assets measured at FVOCI as of December 31, 2022 and December 31, 2021 are as follows.

			Decem 20	December 31, 2021			
N Cd	Ownership	A	equisition	D	. 1 1	D	. 1 1
Name of the company	percentage		cost		ook value		ook value
	(%)		(In		ns of Korean	Won)	
KT Corporation (*4)	4.69	₩	458,793	₩	414,412	₩	7,443
Hyundai Steel Company (*1)	6.87		835,375		322,546		434,277
Hyundai Glovis Co., Ltd.	4.88		210,688		299,359		314,922
ANI Technologies Private Limited (OLA)	3.38		278,955		278,825		290,116
Hyundai Oilbank Co., Ltd.	4.35		53,734		270,911		230,812
Grab Holdings Limited	1.11		442,922		175,010		362,508
HD Hyundai (*3)	2.20		9,018		99,055		94,892
Hyundai M Partners Co., Ltd.	9.29		9,888		17,151		13,954
NICE Information Service Co., Ltd.	2.25		3,312		16,664		24,587
Hyundai Green Food Co., Ltd.	2.36		15,005		15,531		20,077
NICE Holdings Co., Ltd.	1.30		3,491		6,342		7,866
Hyundai Asan Corporation	1.40		22,500		2,117		2,117
Korea Aerospace Industries, Ltd. (*2)	-		-		-		153,522
Others			425,587		422,465		503,719
		₩	2,769,268	₩	2,340,388	₩	2,460,812

<sup>(\*1)</sup> The Group entered into a total return swap agreement to transfer 1,367,114 shares out of total 10,540,709 shares with a third party.

<sup>(\*2)</sup> The Group entered into a total return swap agreement to transfer total shares with a third party. The Group has disposed of all of its shares during the year ended December 31, 2022.

<sup>(\*3)</sup> During the year ended December 31, 2022, the name of company has been changed from Hyundai Heavy Industries Holdings Co., Ltd. to HD Hyundai.

<sup>(\*4)</sup> During the year ended December 31, 2022, the Group acquired 12,011,143 shares in KT Corporation shares by exchange of treasury stocks for the purpose of strengthening its business partnership with KT Corporation, and the shares acquired by the Group are restricted from disposal for a certain period of time.

# 6. <u>INVENTORIES</u>:

Inventories as of December 31, 2022 and December 31, 2021 are as follows.

Description		December 31, 2022	December 31, 2021						
	(In millions of Korean Won)								
Finished goods	₩	7,824,079	₩ 5,987,233						
Merchandise		100,075	59,518						
Semifinished goods		666,083	711,155						
Work in progress		578,404	692,832						
Raw materials		3,460,781	2,536,671						
Supplies		351,994	315,871						
Materials in transit		576,321	730,970						
Others (*1)		733,479	611,391						
Total (*2)	₩	14,291,216	₩ 11,645,641						

<sup>(\*1)</sup> As of December 31, 2022 and December 31, 2021, others include inventories provided by operating lease with repurchase agreement in the amount of W163,268 million and W143,641 million, respectively.

# 7. <u>OTHER ASSETS</u>:

Other assets as of December 31, 2022 and December 31, 2021 are as follows.

	December 31, 2022					December 31, 2021		
Description	Current		Non-current			Current		on-current
		_	(In	n millions of	Kore	ean Won)		_
Accrued income	₩	460,921	₩	531	₩	353,643	₩	716
Advanced payments		882,136		130,743		662,919		-
Prepaid expenses		782,749		1,332,807		558,336		1,108,621
Prepaid value-added tax and others		514,747		86,374		506,955		81,947
	₩	2,640,553	₩	1,550,455	₩	2,081,853	₩	1,191,284

## 8. NON-CURRENT ASSETS CLASSIFIED AS HELD FOR SALE:

Non-current assets classified as held for sale and non-current liabilities classified as held for sale as of December 31, 2022 and December 31, 2021 are as follows.

Description	Decei	mber 31, 2022	December 31, 2021		
Land	₩	6,676	₩	-	
Building and others		15,626		28,121	
Total	₩	22,302	₩	28,121	
Non-current liabilities classified as held for sale	₩	5,365	₩		

<sup>(\*2)</sup> As of December 31, 2022 and December 31, 2021, the Group recognized a valuation allowance in the amount of ₩177,907 million and ₩167,888 million, respectively.

# 9. PROPERTY, PLANT AND EQUIPMENT:

(1) Property, plant and equipment ("PP&E") as of December 31, 2022 and 2021 are as follows.

		December 31, 2022						December 31, 2021				
	Α	equisition	Α	ccumulated				Acquisition	Accumulated			
Description		cost	de	preciation (*)	Book value			cost	depreciation (*)	Book value		
					(I	n millions of	Kor	rean Won)				
Land	₩	12,180,112	₩	-	₩	12,180,112	₩	12,130,094	₩ .	₩ 12,130,094		
Buildings		11,620,590		(4,489,885)		7,130,705		10,872,099	(4,108,392)	6,763,707		
Structures		1,762,100		(911,214)		850,886		1,634,658	(820,896)	813,762		
Machinery and equipment		18,215,786		(11,632,625)		6,583,161		17,542,258	(10,884,908)	6,657,350		
Vehicles		615,152		(252,906)		362,246		473,053	(219,202)	253,851		
Dies, molds and tools		15,387,346		(11,258,981)		4,128,365		14,310,816	(9,899,714)	4,411,102		
Office equipment		2,090,753		(1,601,189)		489,564		1,926,607	(1,502,058)	424,549		
Others		272,101		(114,293)		157,808		309,479	(102,861)	206,618		
Construction in progress		4,270,343				4,270,343		3,882,050		3,882,050		
	₩	66,414,283	₩	(30,261,093)	₩	36,153,190	₩	63,081,114	₩ (27,538,031)	₩ 35,543,083		

<sup>(\*)</sup> Accumulated impairment losses are included.

(2) The changes in PP&E for the year ended December 31, 2022 are as follows.

.,	E	Beginning	•			Transfers								End of
Description	0	f the year	A	equisitions	W	ithin PP&E	I	Disposals	$\mathbf{D}$	epreciation	C	Others (*)		the year
		_		_		(In ı	nilli	ons of Kore	an V	Von)	-	_		_
Land	₩	12,130,094	₩	-	₩	56,663	₩	(9,874)	₩	-	₩	3,229	₩	12,180,112
Buildings		6,763,707		6,946		703,192		(28,181)		(357,212)		42,253		7,130,705
Structures		813,762		18,900		90,828		(5,258)		(77,357)		10,011		850,886
Machinery and														
equipment		6,657,350		32,604		986,035		(91,333)		(1,064,339)		62,844		6,583,161
Vehicles		253,851		109,262		137,739		(59,329)		(81,904)		2,627		362,246
Dies, molds														
and tools		4,411,102		19,799		1,284,698		(65,801)		(1,403,168)		(118,265)		4,128,365
Office equipment		424,549		55,507		187,658		(3,303)		(173,658)		(1,189)		489,564
Others		206,618		3,577		79,172		(288)		(17,647)		(113,624)		157,808
Construction-in														
-progress		3,882,050		4,110,106		(3,525,985)		(1,192)				(194,636)		4,270,343
	₩	35,543,083	₩	4,356,701	₩	-	₩	(264,559)	₩	(3,175,285)	₩	(306,750)	₩	36,153,190

<sup>(\*)</sup> Others include the effect of foreign exchange differences, transfers from or to other accounts, impairment loss of W172,769 million for the CGU attributable to Hyundai Motor Manufacturing Rus LLC and others. The impairment test regarding CGU attributable to Hyundai Motor Manufacturing Rus LLC was conducted due to continued suspension of production, and the recoverable amount was based on its fair value less costs to sell (net fair value).

The changes in PP&E for the year ended December 31, 2021 are as follows.

8	I	Beginning				Transfers								End of
Description	C	of the year	A	equisitions	W	ithin PP&E	Ι	Disposals	D	epreciation	O	thers (*)		the year
						(In	milli	ons of Kore	an V	Von)				
Land	₩	12,047,003	₩	68,990	₩	39,283	₩	(1,303)	₩	-	₩	(23,879)	₩	12,130,094
Buildings		6,355,852		39,130		626,269		(3,460)		(328,580)		74,496		6,763,707
Structures		762,248		27,774		103,295		(14,823)		(68,500)		3,768		813,762
Machinery and														
equipment		6,668,945		28,839		922,091		(31,931)		(1,010,082)		79,488		6,657,350
Vehicles		205,102		84,104		82,730		(51,161)		(61,111)		(5,813)		253,851
Dies, molds														
and tools		3,837,278		27,708		1,792,988		(18,308)		(1,292,982)		64,418		4,411,102
Office equipment		385,763		61,338		130,049		(1,919)		(157,611)		6,929		424,549
Others		75,623		8,451		147,235		(23,572)		(13,650)		12,531		206,618
Construction-in														
-progress		3,754,415		4,036,440		(3,843,940)		(451)		<u>-</u>		(64,414)		3,882,050
	₩	34,092,229	₩	4,382,774	₩	-	₩	(146,928)	₩	(2,932,516)	₩	147,524	₩	35,543,083

<sup>(\*)</sup> Others include the effect of foreign exchange differences, transfers from or to other accounts, impairment loss of W44,499 million allocated from the impairment of CGU attributable to Hyundai Truck & Bus(China) Co., Ltd. and others. The recoverable amount of CGU attributable to Hyundai Truck & Bus(China) Co., Ltd. was based on its value in use or fair value less costs to disposal(net fair value), and the discount rate applied to the measurement of value in use is 8.7%.

## 10. INVESTMENT PROPERTY:

(1) Investment property as of December 31, 2022 and December 31, 2021 are as follows.

		D	ecen	nber 31, 202		December 31, 2021						
	Ac	quisition	Ac	cumulated			Ac	equisition	Ac	cumulated		
Description		cost	de	preciation	Bo	ok value		cost	de	preciation	В	ook value
		<u>.</u>			(In	millions o	f Kor	rean Won)		_		
Land	₩	47,608	₩	-	₩	47,608	₩	54,284	₩	-	₩	54,284
Buildings		310,589		(223,852)		86,737		313,777		(221,919)		91,858
Structures		18,630		(8,525)		10,105		18,630		(8,116)		10,514
	₩	376,827	₩	(232,377)	₩	144,450	₩	386,691	₩	(230,035)	₩	156,656

(2) The changes in investment property for the year ended December 31, 2022 are as follows:

	Ве	ginning						et of foreign xchange		End of
Description	of	the year	Tra	nsfers(*)	Dep	reciation	di	fferences		the year
				(	In mill	ions of Kor	ean Woi	n)		_
Land	₩	54,284	₩	(6,676)	₩	-	₩	-	₩	47,608
Buildings		91,858		201		(4,994)		(328)		86,737
Structures		10,514		-		(408)		(1)		10,105
	₩	156,656	₩	(6,475)	₩	(5,402)	₩	(329)	₩	144,450

(\*) Transferred amount from Construction-in-progress.

The changes in Investment properties for the year ended December 31, 2021 are as follows.

									Eff	ect of foreign		
	Be	ginning								exchange	I	End of
Description	of	the year	Di	sposals	Tran	sfers(*)	Dep	reciation		differences	tł	ne year
					(I:	n millions	of K	orean Won	)			
Land	₩	56,046	₩	(1,762)	₩	-	₩	-	₩	-	₩	54,284
Buildings		94,000		-		1,537		(4,990)		1,311		91,858
Structures		10,921		-		-		(408)		1		10,514
	₩	160,967	₩	(1,762)	₩	1,537	₩	(5,398)	₩	1,312	₩	156,656

(\*) Transferred amount from Construction-in-progress.

(3) The fair value of Investment properties as of December 31, 2022 and December 31, 2021 are as follows.

Description	1	December 31, 2022	December 31, 2021						
	(In millions of Korean Won)								
Land	₩	47,608	₩	54,284					
Buildings		333,488		338,579					
Structures		15,496		15,496					
	₩	396,592	₩	408,359					

The fair value measurement of the Investment properties was performed by an independent third party. The Group deems the change in fair value from the fair value measurement performed at the initial recognition of the Investment properties is not material.

The fair value of the Investment properties is classified as Level 3, based on the inputs used in the valuation techniques. The fair value has been determined based on the cost approach and the market approach. The cost approach measures fair value as current replacement cost considering building structures and design, supplementary installation, depreciation period.

(4) Income and expenses related to Investment properties for the years ended December 31, 2022 and 2021 are as follows.

Description		2022	2021		
		(In millions	of Korean Won)	_	
Rental income	₩	43,967	₩	47,710	
Operating and maintenance expenses		13,201		13,265	

## 11. <u>INTANGIBLE ASSETS</u>:

(1) Intangible assets as of December 31, 2022 and December 31, 2021 are as follows.

		December 31, 202	2	December 31, 2021					
	Acquisition	Accumulated		Acquisition	Accumulated				
Description	cost	amortization (*)	Book value	cost	amortization (*)	Book value			
			(In millions o	f Korean Won)					
Goodwill	₩ 728,644	₩ (35,927)	₩ 692,717	₩ 409,570	₩ (35,807)	₩ 373,763			
Development									
costs	10,679,258	(7,124,833)	3,554,425	10,374,450	(6,331,957)	4,042,493			
Industrial									
property rights	515,017	(366,666)	148,351	477,280	(338,071)	139,209			
Software	1,935,307	(1,280,424)	654,883	1,567,846	(1,089,990)	477,856			
Others	874,134	(216,651)	657,483	821,000	(189,077)	631,923			
Construction in									
progress	415,983	(21,465)	394,518	197,278	(15,536)	181,742			
	₩ 15,148,343	₩ (9,045,966)	₩ 6,102,377	₩ 13,847,424	₩ (8,000,438)	₩ 5,846,986			

- (\*) Accumulated impairment losses are included.
- (2) The changes in intangible assets for the year ended December 31, 2022 are as follows.

Disposals
-
(3,755)
(85)
(23)
(30,387)
-
(34,250)

				Impairment loss				End of
Description	mortization	rtization /reversal (*1) Ot			Others (*2)		the year	
	(In millions of Korean Won)							
Goodwill	₩	-	₩	-	₩	318,954	₩	692,717
Development Costs		(1,596,985)		(159,009)		22,715		3,554,425
Industrial property rights		(29,057)		-		3,811		148,351
Software		(188,800)		(7,426)		249,067		654,883
Others		(52,093)		(1,841)		24,083		657,483
Construction in progress				(502)		(8,149)		394,518
	₩	(1,866,935)	₩	(168,778)	₩	610,481	₩	6,102,377

<sup>(\*1)</sup> Impairment losses include impairment of development costs due to the discontinued sales and development projects and others for the year ended December 31, 2022.

(\*2) Others include the effect of foreign exchange differences, transfers from or to other accounts, changes in the scope of consolidation and others.

The changes in intangible assets for the year ended December 31, 2021 are as follows.

Description		Beginning of the year		Internal developments		External acquisition		Transfers within ntangible assets	D	isposals
				(In milli	ion	ns of Korean Won)				
Goodwill	₩	341,476	₩	· -	₹	₩ -	₩	-	₩	-
Development Costs		4,277,671		1,291,676		31,287		41,147		(417)
Industrial property rights		245,400		64		951		28,076		(152)
Software		419,101		8,531		41,316		32,113		(110)
Others		251,263		-		1,150		21,771		(18,662)
Construction in progress		142,656		11,124		171,226		(123,107)		
	₩	5,677,567	₩	1,311,395	₹	₩ 245,930	₩	-	₩	(19,341)

Description	Amortization	Impairment loss /reversal (*1)	Transfer to Non- current assets classified as held for sale	Others (*2)	End of the year
Description	Amortization			Others (2)	the year
		(In mill	ions of Korean Won)		
Goodwill	₩ -	₩ (76,805)	₩ -	₩ 109,092	₩ 373,763
Development Costs	(1,406,713)	(192,213)	(3,496)	3,551	4,042,493
Industrial property rights	(24,076)	(112,278)	-	1,224	139,209
Software	(158,353)	(4)	-	135,262	477,856
Others	(28,681)	6	(162)	405,238	631,923
Construction in progress		(12,853)		(7,304)	181,742
	₩ (1,617,823)	₩ (394,147)	₩ (3,658)	₩ 647,063	₩ 5,846,986

<sup>(\*1)</sup> Impairment losses include impairment of development costs due to the discontinued sales and development projects, impairment loss of \( \partial 246,707 \) million allocated from the impairment of CGU attributable to Hyundai Truck & Bus(China) Co., Ltd. and others.

(3) Development costs of intangible assets as of December 31, 2022 consist of as follows.

Desc	Description		ook value	Remaining amortization period (*)
		(In million	ns of Korean Won)	
Automobile	Developing	₩	944,149	-
"	Amortizing		2,163,052	30 months
Powertrain	Developing		106,894	<del>-</del>
"	Amortizing		153,676	24 months
Others	Developing		-	<del>-</del>
"	Amortizing		186,654	46 months
		₩	3,554,425	

<sup>(\*)</sup> Since the remaining amortization period differs for each project, the weighted average remaining useful lives of the development costs at the end of reporting period are disclosed.

<sup>(\*2)</sup> Others include the effect of foreign exchange differences, transfers from or to other accounts, changes in the scope of consolidation and others.

Development costs of intangible assets as of December 31, 2021 consist of as follows.

Desc	Description		ook value	Remaining amortization period (*)
		(In million	ns of Korean Won)	
Automobile	Developing	₩	1,176,530	-
"	Amortizing		2,378,965	32 months
Powertrain	Developing		142,567	-
"	Amortizing		171,828	25 months
Others	Developing		54	-
"	Amortizing		172,549	46 months
		₩	4,042,493	

- (\*) Since the remaining amortization period differs for each project, the weighted average remaining useful lives of the development costs at the end of reporting period are disclosed.
- (4) Research and development expenditures for the years ended December 31, 2022 and 2021 are as follows.

Description		2022	2021					
	(In millions of Korean Won)							
Development costs (intangible assets)	₩	1,203,076	₩	1,322,963				
Research and development costs (*1)		2,133,497		1,774,934				
Total (*2)	₩	3,336,573	₩	3,097,897				

- (\*1) Presented in manufacturing costs, administrative expenses.
- (\*2) Amortization of development costs is not included.
- (5) Impairment test of goodwill

The allocation of goodwill amongst the Group's CGUs as of December 31, 2022 and December 31, 2021 are as follows.

Decem	December 31, 2021				
(In millions of Korean Won)					
₩	256,508	₩	253,204		
	482		482		
	435,727		120,077		
₩	692,717	₩	373,763		
	₩	₩ 256,508 482 435,727	(In millions of Korean Wo ₩ 256,508 ₩ 482 435,727		

The recoverable amounts of the Group's CGUs are measured as their value-in-use calculated based on cash flow projections of financial budgets for the next five years approved by management. The pre-tax discount rate applied to the cash flow projections for the years ended December 31, 2022 and 2021, are 12.7% and 8.7% respectively. Cash flow projections beyond the five-year period are extrapolated by using the estimated growth rate which does not exceed the long-term average growth rate of the region and industry to which the CGU belongs. No impairment loss had been recognized for the year ended December 31, 2022. An impairment loss on goodwill of  $\mathbb{W}76,805$  million was recognized with respect to the impairment of CGU attributable to Hyundai Truck & Bus(China) Co., Ltd. for the year ended December 31, 2021.

# 12. <u>LEASES (AS A LESSEE)</u>:

(1) The changes in right-of-use assets for the year ended December 31, 2022 are as follows.

	Ве	ginning										
Description	of	the year	Acc	quisitions	D	isposals	D	epreciation		Others(*)	End	l of the year
				_		(In million	s of	Korean Won)		_		
Land	₩	83,604	₩	175,406	₩	(392)	₩	(6,097)	₩	(623)	₩	251,898
Buildings		754,149		330,661		(59,061)		(197,807)		(8,589)		819,353
Vehicles		2,370		34,238		(507)		(6,258)		(3,250)		26,593
Others		100,703		18,482		<u> </u>		(6,323)		(93,413)		19,449
	₩	940,826	₩	558,787	₩	(59,960)	₩	(216,485)	₩	(105,875)	₩	1,117,293

(\*) Others include the effect of foreign exchange differences, changes in the scope of consolidation and others.

The changes in right-of-use assets for the year ended December 31, 2021 are as follows.

	Ве	eginning										
Description	of	the year	Acq	uisitions	D	isposals	D	epreciation		Others(*)	End	of the year
						(In million	s of I	Korean Won)				
Land	₩	143,679	₩	13,863	₩	(457)	₩	(6,686)	₩	(66,795)	₩	83,604
Buildings		681,335		249,691		(22,786)		(184,173)		30,082		754,149
Vehicles		2,672		1,566		(78)		(1,845)		55		2,370
Others		8,638		97,885		(854)		(8,722)		3,756		100,703
	₩	836,324	₩	363,005	₩	(24,175)	₩	(201,426)	₩	(32,902)	₩	940,826

<sup>(\*)</sup> Others include the effect of foreign exchange differences, changes in the scope of consolidation, impairment loss of \$46,910 million allocated from the impairment of CGU attributable to Hyundai Truck & Bus(China) Co., Ltd. and others.

(2) Lease liabilities as of December 31, 2022 and December 31, 2021 are as follows.

Description	Decen	ber 31, 2022	December 31, 2021			
	(In millions of Korean Won)					
Undiscounted lease liabilities	₩	1,303,067	₩	1,150,757		
Discounted lease liabilities		1,110,804		950,572		
Current		405,053		167,266		
Non-current		705,751		783,306		

(3) Expenses recognized in relation to leases for the years ended December 31, 2022 and 2021 are as follows.

Description		nber 31, 2022	Dece	December 31, 2021				
	(In millions of Korean Won)							
Interest on lease liabilities	₩	33,993	₩	25,126				
Expenses in relation to leases of short-term and low-								
value assets		20,174		20,907				

## 13. <u>INVESTMENTS IN JOINT VENTURES AND ASSOCIATES</u>:

(1) Investments in joint ventures and associates as of December 31, 2022 are as follows.

Name of the company	Nature of business	Location	Ownership percentage (%)	Book value (In millions of Korean Won)
Beijing Hyundai Qiche Financing				
Company (BHAF) (*1,3)	Financing	China	53.00	₩ 759,766
Beijing-Hyundai Motor Company				
(BHMC) (*1)	Manufacturing	China	50.00	525,250
Hyundai WIA Automotive Engine				
(Shandong) Company (WAE)	Manufacturing	China	31.40	215,786
Motional AD LLC (*1)	R&D	USA	25.92	907,061
HMG Global LLC (*4)	New business Investment &			
	management	USA	49.50	608,223
Boston Dynamics AI Institute, LLC	R&D	USA	47.50	266,357
supernal, LLC (*1,5)	R&D	USA	44.44	178,564
Hyundai Capital Bank Europe GmbH				
(HCBE)	Financing	Germany	49.00	508,110
HYUNDAI MOTOR GROUP				
INNOVATION CENTER IN				
SINGAPORE PTE. LTD.(HMGICS)	Manufacturing	Singapore	40.00	104,556
Kia Corporation	Manufacturing	Korea	33.88	13,251,475
Hyundai Engineering & Construction				
Co., Ltd.	Construction	Korea	20.95	3,033,945
Hyundai Transys Inc.	Manufacturing	Korea	41.13	1,157,462
Hyundai WIA Corporation	Manufacturing	Korea	25.35	759,270
Hyundai Autoever Corp.	IT service	Korea	31.59	449,994
Hyundai Commercial Inc.	Financing	Korea	37.50	374,970
Hyundai Motor Securities Co., Ltd.	Securities			
•	Brokerage	Korea	25.43	332,624
Eukor Car Carriers Inc. (*2)	Transportation	Korea	12.00	269,261
Haevichi Hotels & Resorts Co., Ltd.	Hotelkeeping	Korea	41.90	96,303
Others				1,400,460
				₩ 25,199,437

- (\*1) Each of the joint arrangements in which the Group retains joint control is structured through a separate entity and there are no contractual terms stating that the parties retain rights to the assets and obligations for the liabilities relating to the joint arrangement or other relevant facts and circumstances. As a result, the Group considers that the parties that retain joint control in the arrangement have rights to the net assets and classifies the joint arrangements as joint ventures. Also, there are restrictions, which require consent from the director who is designated by the other investors, for certain transactions, such as payment of dividend.
- (\*2) As the Group is considered to be able to exercise significant influence by representation on the board of directors of the investee and other reasons, although the total ownership percentage is less than 20%, the investment is accounted for using the equity method.
- (\*3) The entity is categorized as a joint venture although the Group's total ownership percentage is a majority share of 53%, because the Group does not have control over the entity by virtue of an agreement with the other investors.
- (\*4) During the year ended December 31, 2022, the Group completed the establishment of HMG Global LLC by Contributing cash and all of Group's interests in Boston Dynamics, Inc. to HMG Global LLC.
- (\*5) During the year ended December 31, 2022, the classification of supernal, LLC was changed from a subsidiary to investment in an associate due to loss of control. In addition, during the year ended December 31, 2021, the name of company was changed from Genesis Air Mobility LLC to supernal, LLC.

Investments in joint ventures and associates as of December 31, 2021 are as follows.

	Nature of		Ownership	
Name of the company	business	Location	percentage	Book value
			(%)	(In millions of Korean Won)
Beijing Hyundai Qiche Financing	T	CI.	<b>53</b> 00	W 726 704
Company (BHAF) (*1,3)	Financing	China	53.00	₩ 736,704
Beijing-Hyundai Motor Company				
(BHMC) (*1)	Manufacturing	China	50.00	345,950
Hyundai WIA Automotive Engine				
(Shandong) Company (WAE)	Manufacturing	China	31.40	245,868
Motional AD LLC (*1)	R&D	USA	25.97	1,025,263
Boston Dynamics, Inc.	R&D	USA	30.00	414,634
Hyundai Capital Bank Europe GmbH				
(HCBE)	Financing	Germany	49.00	498,050
Hyundai Motor Group INNOVATION				
CENTER IN SINGAPORE PTE.				
LTD.(HMGICS) (*6)	Manufacturing	Singapore	40.00	78,316
Kia Corporation (*4)	Manufacturing	Korea	33.88	11,620,132
Hyundai Engineering & Construction	_			
Co., Ltd.	Construction	Korea	20.95	2,935,786
Hyundai Transys Inc.	Manufacturing	Korea	41.13	1,085,858
Hyundai WIA Corporation	Manufacturing	Korea	25.35	729,053
Hyundai Autoever Corp. (*5)	IT service	Korea	31.59	410,935
Hyundai Commercial Inc.	Financing	Korea	37.50	339,300
Hyundai Motor Securities Co., Ltd.	Securities			•
•	Brokerage	Korea	25.43	314,532
Eukor Car Carriers Inc. (*2)	Transportation	Korea	12.00	186,489
Haevichi Hotels & Resorts Co., Ltd.	Hotelkeeping	Korea	41.90	98,894
Others	1 &	-		1,363,353
				₩ 22,429,117
				11 22,429,117

- (\*1) Each of the joint arrangements in which the Group retains joint control is structured through a separate entity and there are no contractual terms stating that the parties retain rights to the assets and obligations for the liabilities relating to the joint arrangement or other relevant facts and circumstances. As a result, the Group considers that the parties that retain joint control in the arrangement have rights to the net assets and classifies the joint arrangements as joint ventures. Also, there are restrictions, which require consent from the director who is designated by the other investors, for certain transactions, such as payment of dividend.
- (\*2) As the Group is considered to be able to exercise significant influence by representation on the board of directors of the investee and other reasons, although the total ownership percentage is less than 20%, the investment is accounted for using the equity method.
- (\*3) The entity is categorized as a joint venture although the Group's total ownership percentage is a majority share of 53%, because the Group does not have control over the entity by virtue of an agreement with the other investors.
- (\*4) During the year ended December 31, 2021, the name of the company was changed from Kia Motors Corporation to Kia Corporation.
- (\*5) During the year ended December 31, 2021, as the merger with Hyundai Autron Company Ltd., the subsidiary of the Company, and HYUNDAI MNSOFT, Inc., the associate of the Company, was completed, the Group's ownership percentage was changed from 28.48% to 31.59%.
- (\*6) During the year ended December 31, 2021, the name of the company was changed from HYUNDAI MOTOR SINGAPORE PTE. LTD. (HMS) to Hyundai Motor Group Innovation Center in Singapore Pte. Ltd. (HMGICS).

(2) The changes in investments in joint ventures and associates for the year ended December 31, 2022 are as follows.

Name of the company	Beginning of Acquisitions the year (disposals)				pro	Share of fits (losses) the period	Dividend	S_	Others (*)	Enc	d of the year
					(In millions of Korean Won)						
BHAF	₩	736,704	₩	-	₩	44,478	₩	-	₩ (21,416)	₩	759,766
ВНМС		345,950		597,979		(394,495)		-	(24,184)		525,250
WAE		245,868		-		(25,336)		-	(4,746)		215,786
Motional AD LLC		1,025,263		-		(189,135)		-	70,933		907,061
HMG Global LLC		-		743,062		(5,483)		-	(129,356)		608,223
Boston Dynamics AI											
Institute, LLC		-		283,366		(2,308)		-	(14,701)		266,357
supernal, LLC		-		194,596		(87,946)		-	71,914		178,564
Boston Dynamics, Inc.		414,634		-		(37,483)		-	(377,151)		-
HCBE		498,050		-		15,337		-	(5,277)		508,110
HMGICS		78,316		29,528		(8,067)		-	4,779		104,556
Kia Corporation		11,620,132		-		1,906,772	(411,95	55)	136,526		13,251,475
Hyundai Engineering &											
Construction Co., Ltd.		2,935,786		-		89,636	(13,99)	96)	22,519		3,033,945
Hyundai Transys Inc.		1,085,858		-		47,166		-	24,438		1,157,462
Hyundai WIA Corporation		729,053		-		31,439	(4,82	26)	3,604		759,270
Hyundai Autoever Corp.		410,935		-		39,961	(6,00	55)	5,163		449,994
Hyundai Commercial Inc.		339,300		-		100,212	(20,00	00)	(44,542)		374,970
Hyundai Motor Securities											
Co., Ltd.		314,532		-		22,153	(6,45	53)	2,392		332,624
Eukor Car Carriers Inc.		186,489		-		82,923	(7,39)	92)	7,241		269,261
Haevichi Hotels & Resorts											
Co., Ltd.		98,894		-		(2,601)		-	10		96,303
Others		1,363,353		152,952		8,554	(16,34	19)	(108,050)		1,400,460
	₩	22,429,117	₩	2,001,483	₩	1,635,777	₩ (487,03	66)	₩ (379,904)	₩	25,199,437

<sup>(\*)</sup> Others consist of changes in accumulated other comprehensive income (loss) and others.

The changes in investments in joint ventures and associates for the year ended December 31, 2021 are as follows.

		Share of								
	В	eginning of	Acquisitions	· /						
Name of the company		the year	(disposals)	for the period	Dividends	Others (*1)	End of the year			
				(In millions of K	Corean Won)					
BHAF	₩	627,895	₩ -	₩ 50,724	₩ (15,880)	₩ 73,965	₩ 736,704			
BHMC		779,958	-	(502,344)	-	68,336	345,950			
WAE		224,979	-	(3,432)	-	24,321	245,868			
Motional AD LLC		1,053,282	-	(122,871)	-	94,852	1,025,263			
Boston Dynamics, Inc.										
(*2)		-	431,882	(36,010)	-	18,762	414,634			
HCBE		495,999	-	(99)	-	2,150	498,050			
HMGICS		51,766	26,202	(3,300)	-	3,648	78,316			
Kia Corporation		9,972,824	-	1,601,473	(137,318)	183,153	11,620,132			
Hyundai Engineering &										
Construction Co., Ltd.		2,835,399	-	82,421	(13,996)	31,962	2,935,786			
Hyundai Transys Inc.		1,017,906	-	39,223	-	28,729	1,085,858			
Hyundai WIA Corporation		694,991	-	16,637	(4,826)	22,251	729,053			
Hyundai Autoever Corp.		158,073	-	24,876	(4,485)	232,471	410,935			
Hyundai Commercial Inc.		261,601	-	67,187	(3,750)	14,262	339,300			
Hyundai Motor Securities										
Co., Ltd.		310,472	-	23,027	(5,444)	(13,523)	314,532			
Eukor Car Carriers Inc.		150,503	-	22,457	-	13,529	186,489			
Haevichi Hotels & Resorts										
Co., Ltd.		97,655	-	980	_	259	98,894			
Others		1,191,957	182,786	17,642	(12,344)	(16,688)	1,363,353			
	₩	19,925,260	₩ 640,870	₩ 1,278,591	₩ (198,043)	₩ 782,439	₩ 22,429,117			

<sup>(\*1)</sup> Others consist of changes in accumulated other comprehensive income (loss) and others.

# (3) Summarized financial information of the Group's major joint ventures and associates as of and for the year ended December 31, 2022 is as follows.

Name of the company		Current assets	Non-current assets		Current liabilities	Non-current liabilities
		_	(In millions of	f Koı	rean Won)	
BHAF (*)	₩	4,044,066	₩ -	₩	2,610,546	₩ -
BHMC		3,042,267	3,120,431		4,715,086	399,063
WAE		537,909	457,303		338,319	5,551
Motional AD LLC		646,160	3,187,411		142,518	89,824
HMG Global LLC		799,047	1,384,220		88,391	320,996
Boston Dynamics AI Institute, LLC		556,273	53,152		9,072	39,876
supernal, LLC		338,831	216,123		42,290	108,565
HCBE (*)		9,448,406	-		8,405,237	-
HMGICS		118,876	370,889		18,593	216,915
Kia Corporation		34,147,147	39,563,818		25,377,803	8,990,081
Hyundai Engineering &						
Construction Co., Ltd.		15,516,745	5,394,963		8,757,397	2,230,034
Hyundai Transys Inc.		4,311,914	3,209,159		3,147,190	1,499,678
Hyundai WIA Corporation		4,267,463	3,278,988		2,410,435	1,402,365
Hyundai Autoever Corp.		1,695,856	923,580		883,698	245,358
Hyundai Commercial Inc. (*)		11,170,366	-		9,774,127	-
Hyundai Motor Securities Co., Ltd. (*)		10,233,054	-		9,008,411	-
Eukor Car Carriers Inc.		1,026,513	3,312,611		609,827	1,505,122
Haevichi Hotels & Resorts Co., Ltd.		43,919	412,477		253,312	34,862

<sup>(\*2)</sup> Share acquisition has been completed in the year ended December 31, 2021, and the acquisition cost is measured as the cash paid during the years ended December 31, 2022 and 2021, and the value of put option owned by other investors.

			Pro	fit (loss) for			
			the	period from	Other		Total
			c	ontinuing	comprehensive	con	nprehensive
Name of the company		Sales		perations	income (loss)	inc	come (loss)
		_	(				
BHAF (*)	₩	362,978	₩	83,920	₩ -	₩	83,920
BHMC		4,900,315		(821,204)	=		(821,204))
WAE		501,436		(71,164)	-		(71,164)
Motional AD LLC		1,207		(751,726)	(6,314)		(758,040)
HMG Global LLC		21,388		(63,993)	=		(63,993)
Boston Dynamics AI Institute, LLC		-		(4,858)	=		(4,858)
supernal, LLC		-		(195,567)	-		(195,567)
HCBE (*)		971,654		32,144	16,302		48,446
HMGICS		12,190		(20,168)	-		(20,168)
Kia Corporation		86,559,029		5,408,976	227,095		5,636,071
Hyundai Engineering &							
Construction Co., Ltd.		21,239,082		470,876	144,153		615,029
Hyundai Transys Inc.		10,256,254		123,483	64,705		188,188
Hyundai WIA Corporation		8,207,614		43,482	9,136		52,618
Hyundai Autoever Corp.		2,754,508		116,170	17,586		133,756
Hyundai Commercial Inc. (*)		588,167		266,640	(116,056)		150,584
Hyundai Motor Securities Co., Ltd. (*)		1,186,029		87,102	5,147		92,249
Eukor Car Carriers Inc.		2,865,427		668,062	43,489		711,551
Haevichi Hotels & Resorts Co., Ltd.		152,860		(5,485)	9		(5,476)

<sup>(\*)</sup> The companies operate financial business and their total assets (liabilities) are included in current assets (liabilities) as the companies do not distinguish current and non-current portion in their separate financial statements.

Summarized financial information of the Group's major joint ventures and associates as of and for the year ended December 31, 2021 is as follows.

Name of the company		Current assets	Non-current assets	Current liabilities	Non-current liabilities
			(In millions of	Korean Won)	
BHAF (*)	₩	5,648,345	₩ -	₩ 4,258,337	₩ -
BHMC		2,877,226	3,897,225	5,047,580	984,476
WAE		648,858	530,099	185,159	255,961
Motional AD LLC		630,770	3,603,314	97,631	105,139
Boston Dynamics, Inc.		117,854	250,999	55,254	79,823
HCBE (*)		6,910,165	-	5,916,354	-
HMGICS		23,970	166,297	1,612	-
Kia Corporation		29,205,483	37,644,514	21,562,636	10,374,805
Hyundai Engineering &					
Construction Co., Ltd.		14,555,535	5,091,172	7,616,041	2,594,756
Hyundai Transys Inc.		3,592,986	3,043,732	2,164,191	1,786,510
Hyundai WIA Corporation		4,156,485	3,593,022	2,126,275	1,927,968
Hyundai Autoever Corp.		1,471,052	875,071	721,374	248,927
Hyundai Commercial Inc. (*)		10,001,066	-	8,699,018	-
Hyundai Motor Securities Co., Ltd. (*)		8,806,128	-	7,645,418	-
Eukor Car Carriers Inc.		534,016	3,169,325	654,912	1,467,448
Haevichi Hotels & Resorts Co., Ltd.		44,922	409,187	235,954	44,458

Name of the company		Sales	Profit (loss) for the period from continuing operations	Other comprehensive income (loss)	Total comprehensive income (loss)
DILAE (*)	₩	423,416	`	f Korean Won)  ₩ -	₩ 95,703
BHAF (*)	vv	*		· · · · · ·	
BHMC		6,240,989	(1,012,933)	-	(1,012,933)
WAE		797,685	(4,226)	-	(4,226)
Motional AD LLC		949	(516,204)	(5,025)	(521,229)
Boston Dynamics, Inc.		66,779	(196,950)	-	(196,950)
HCBE (*)		711,616	(325)	4,241	3,916
HMGICS		-	(8,251)	-	(8,251)
Kia Corporation		69,862,366	4,760,311	664,223	5,424,534
Hyundai Engineering &					
Construction Co., Ltd.		18,065,534	549,501	168,103	717,604
Hyundai Transys Inc.		8,143,951	90,623	66,409	157,032
Hyundai WIA Corporation		7,527,739	56,071	131,926	187,997
Hyundai Autoever Corp.		2,070,382	71,368	13,648	85,016
Hyundai Commercial Inc. (*)		482,087	185,303	(31,808)	153,495
Hyundai Motor Securities Co., Ltd. (*)		853,770	117,749	913	118,662
Eukor Car Carriers Inc.		1,894,623	192,229	137,672	329,901
Haevichi Hotels & Resorts Co., Ltd.		116,466	2,063	16	2,079

<sup>(\*)</sup> The companies operate financial business and their total assets (liabilities) are included in current assets (liabilities) as the companies do not distinguish current and non-current portion in their separate financial statements.

(4) Summarized additional financial information of the Group's major joint ventures as of and for the year ended December 31, 2022 is as follows.

Name of the company	Cash and cash equivalents	Current financial liabilities	Non-current financial liabilities	Depreciation and amortization	Interest income	Interest expenses	Income tax expense	
			(In millio	ns of Korean Wo	on)			
BHAF(*)	₩ 1,023,368	₩ 2,385,681	₩ -	₩ 13,926	₩ 341,357	₩ 128,264	₩ 32,245	
BHMC	1,887,932	606,105	161,500	570,749	18,263	51,436	60,112	
Motional AD								
LLC	71,075	16,062	62,753	87,887	5,760	-	6,027	
supernal, LLC	333,184	-	-	8,305	589	5,983	-	

<sup>(\*)</sup> Operating finance business of which total assets (liabilities) are included in current financial liabilities as BHAF does not distinguish current and non-current portion in its separate financial statements.

Summarized additional financial information of the Group's major joint ventures as of and for the year ended December 31, 2021 is as follows.

Name of the company		ash and cash uivalents	İ	Current financial iabilities	1	on-current financial iabilities	amo	oreciation and ortization	Interest income	Interest expenses		ome tax
						(In million	ns of	Korean Wo	on)			
BHAF(*)	₩	860,234	₩	3,993,580	₩	-	₩	8,155	₩ 419,195	₩ 175,403	₩	32,648
BHMC		975,177		379,970		723,688		481,351	11,599	81,288		2,665
Motional AD												
LLC		188,571		14,407		71,982		73,807	3,642	-		(7,875)

<sup>(\*)</sup> Operating finance business of which total assets (liabilities) are included in current financial liabilities as BHAF does not distinguish current and non-current portion in its separate financial statements.

(5) Reconciliation of the Group's share of net assets of the Group's major joint ventures and associates to their carrying amounts as of December 31, 2022 is as follows.

				Unrealized		
	Group's	share of		profit (loss) and	Carrying	
Name of the company	net a	ssets	Goodwill	others	amounts	
			(In millions of	Korean Won)		
BHAF	₩	759,766	₩ -	₩ -	₩ 759,766	
BHMC		551,378	-	(26,128)	525,250	
WAE (*)		207,938	7,809	39	215,786	
Motional AD LLC		922,942	-	(15,881)	907,061	
HMG Global LLC		608,223	-	-	608,223	
Boston Dynamics AI Institute, LLC		266,227	-	130	266,357	
supernal, LLC		178,571	-	(7)	178,564	
HCBE		497,892	22,341	(12,123)	508,110	
HMGICS		101,702	2,854	-	104,556	
Kia Corporation	13	,124,472	197,089	(70,086)	13,251,475	
Hyundai Engineering & Construction						
Co., Ltd. (*)	2	,302,451	731,362	132	3,033,945	
Hyundai Transys Inc.	1	,142,960	-	14,502	1,157,462	
Hyundai WIA Corporation		854,377	-	(95,107)	759,270	
Hyundai Autoever Corp. (*)		391,073	58,822	99	449,994	
Hyundai Commercial Inc.		374,970	-	-	374,970	
Hyundai Motor Securities Co., Ltd.		291,823	40,052	749	332,624	
Eukor Car Carriers Inc.		268,999	-	262	269,261	
Haevichi Hotels & Resorts Co., Ltd. (*)		92,727	3,576	-	96,303	

<sup>(\*)</sup> The difference between the carrying amount and the fair value of the investee's identifiable assets and liabilities as of the acquisition date is included in the amount of net assets.

Reconciliation of the Group's share of net assets of the Group's major joint ventures and associates to their carrying amounts as of December 31, 2021 is as follows.

	Group's share		Unrealized		
	of		profit (loss) and	Carrying	
Name of the company	net assets	Goodwill	others	amounts	
		(In millions of	f Korean Won)		
BHAF	₩ 736,704	₩ -	₩ -	₩ 736,704	
BHMC	371,198	-	(25,248)	345,950	
WAE (*)	238,021	7,809	38	245,868	
Motional AD LLC	1,047,834	-	(22,571)	1,025,263	
Boston Dynamics, Inc. (*)	199,325	209,428	5,881	414,634	
HCBE	474,523	22,341	1,186	498,050	
HMGICS	75,462	2,854	-	78,316	
Kia Corporation	11,505,153	197,089	(82,110)	11,620,132	
Hyundai Engineering & Construction					
Co., Ltd. (*)	2,204,424	731,362	-	2,935,786	
Hyundai Transys Inc.	1,070,931	-	14,927	1,085,858	
Hyundai WIA Corporation	823,381	-	(94,328)	729,053	
Hyundai Autoever Corp. (*)	352,013	58,822	100	410,935	
Hyundai Commercial Inc.	339,300	-	-	339,300	
Hyundai Motor Securities Co., Ltd.	275,563	40,052	(1,083)	314,532	
Eukor Car Carriers Inc.	186,227	-	262	186,489	
Haevichi Hotels & Resorts Co., Ltd. (*)	95,318	3,576	-	98,894	

<sup>(\*)</sup> The difference between the carrying amount and the fair value of the investee's identifiable assets and liabilities as of the acquisition date is included in the amount of net assets.

(6) The market price of major listed equity securities as of December 31, 2022 is as follows.

	Total number of								
Name of the company	Price per share		shares	Market value					
	(In millions of Korean Won, except price per share)								
Kia Corporation	₩	59,300	137,318,251	₩ 8,142,972					
Hyundai Autoever Corp.		95,500	8,664,334	827,444					
Hyundai Engineering & Construction Co., Ltd.		34,900	23,327,400	814,126					
Hyundai WIA Corporation		49,450	6,893,596	340,888					
Hyundai Motor Securities Co., Ltd.		9,090	8,065,595	73,316					

## 14. FINANCIAL SERVICES RECEIVABLES:

(1) Financial services receivables as of December 31, 2022 and December 31, 2021 are as follows.

Description	December 31, 2022			December 31, 2021			
<u> </u>	(In millions of Korean Won)						
Loans	₩	69,298,391	₩	61,959,509			
Card receivables		21,018,287		18,728,408			
Financial lease receivables		2,060,971		2,123,472			
Others		20,761		35,291			
		92,398,410		82,846,680			
Loss allowance		(1,726,916)		(1,551,987)			
Loan origination fee		(261,084)		(231,762)			
Present value discount accounts		(46,564)		(33,799)			
	₩	90,363,846	₩	81,029,132			

### (2) Transfer of financial services receivables

As of December 31, 2022 and 2021, the Group has issued asset-backed securities with loan receivables and credit card receivables as underlying assets and related asset-backed securities have the right of recourse. As of December 31, 2022, the carrying amount of financial assets that were transferred but not derecognized (including inter-company bonds) amounted to \W31,838,127 million and its fair value is \W30,847,083 million. The carrying amount of related liabilities is \W22,795,844 million and its fair value is \W22,263,492 million. As a result, the fair value of net position is \W8,583,591 million. As of December 31, 2021, the carrying amount of financial assets that were transferred but not derecognized (including inter-company bonds) amounted to \W26,292,997 million and its fair value is \W26,213,213 million. The carrying amount of related liabilities is \W19,352,363 million and its fair value is \W19,225,190 million. As a result, the fair value of net position is \W6,988,023 million.

# (3) The changes in loss allowance of financial services receivables for the year ended December 31, 2022 are as follows.

			L	oan	n Obligations				
	12-Month				d credit losses				
Description	expected credit losses			Impaired	_	Total loan obligations			
<u> </u>			(In mill	ion	ns of Korean Wo	n)			
Beginning of the year Transfer to 12-Month expected	₩ 449,207	₩	₹ 316,425	₩	204,03	4 ₩	Ŧ	90	69,666
credit losses Transfer to lifetime expected	69,360	)	(65,956)		(3,404	.)			-
credit losses	(54,196)	)	58,198		(4,002	2)			-
Transfer to credit-impaired	(2.424)		(7.225)		0.65	0			
financial assets	(2,434)		(7,225)		9,65			4	-
Impairment loss (reversal)	(139,481)		435,731		164,83				61,086
Collection (write-off)	(169)		(241,816)		(132,234				4,219)
Disposals and others	(2)	)	-		(4,794	.)		(	4,796)
Effect of foreign exchange	22.750		( 0(2			2		,	30.074
differences	22,750 ₩ 345,035		6,062	11/	6:		Į		28,874
End of the year	₩ 345,035	=	₹ 501,419		234,15	<u>/</u>	<u> </u>	1,0	80,611
			C	ard	l receivables				
	12-Month								
	expected	_					Total ca	ard	
Description	credit losses		Not Impaired		Impaired		receivab		
				ion	ıs of Korean Woı	1)			
Beginning of the year Transfer to 12-Month expected	₩ 195,70	9 ₹	₩ 163,391			_		51.	3,700
credit losses Transfer to lifetime expected	49,24	7	(49,118)	)	(129)				-
credit losses Transfer to credit-impaired	(26,980	))	27,145		(165)				-
financial assets	(93,623		(70,901)		164,524				
Impairment loss (reversal)	65,48		149,053		217,342			13	1,883
Collection (write-off)	03,40	-	147,033		(342,013)				,013)
Disposals and others		_	1		(15,368)				,367)
Effect of foreign exchange differences		_	_		(13,300)			(13	-
End of the year	₩ 189,84	1 1	₩ 219,571	₩	₩ 178,791	₩		58	8,203
End of the year	109,04	<u> </u>	219,3/1		170,791			30	0,203
			Otl	hers	'S				
	12-Month		Lifetime exped						
	expected		,						Total
Description	credit losses		Not Impaired		Impaired	To	tal others	All	owances
			(In millions of	f K	orean Won)				
Beginning of the year Transfer to 12-Month expected	₩ 14,29	9 ₹	₩ 8,119	\ \	₩ 46,203	₩	68,621	₩	1,551,987
credit losses Transfer to lifetime expected	4,32	6	(1,737)	)	(2,590)		(1)		(1)
credit losses Transfer to credit-impaired	(1,550	))	1,974		(424)		-		-
financial assets	(100	))	(237)	)	337		_		_
Impairment loss (reversal)	(3,639		855		8,315		5,531		898,500

8,974 ₩

13,336 ₩

₩

(16,049)

35,792 ₩

(16,049)

58,102

₩

(732,281)

(20,163)

28,874

1,726,916

Collection (write-off)

Disposals and others

differences

End of the year

Effect of foreign exchange

The changes in allowance for doubtful accounts of financial services receivables for the year ended December 31, 2021 are as follows.

				L	oan	Obligations		
	12	2-Month	Ι	Lifetime expected credit losses				
Description	expected credit losses		No	t Impaired		Impaired	Total loan obligations	
				(In mil	lions	s of Korean Won)		
Beginning of the year	₩	441,192	₩	300,082	₩	315,136	₩	1,056,410
Transfer to 12-Month expected								
credit losses		71,703		(67,049)		(4,654)		-
Transfer to lifetime expected								
credit losses		(57,656)		61,633		(3,977)		-
Transfer to credit-impaired								
financial assets		(2,773)		(5,866)		8,639		-
Impairment loss (reversal)		(27,338)		128,769		135,156		236,587
Collection (write-off)		50		(114,436)		(246,714)		(361,100)
Disposals and others		-		-		234		234
Effect of foreign exchange								
differences		24,029		13,292		214		37,535
End of the year	₩	449,207	₩	316,425	₩	204,034	₩	969,666
				C	ard 1	receivables		
	1	2-Month	L	ifetime expe	cted	credit losses		
		expected		•				Total card
Description		edit losses	N	ot Impaired		Impaired		receivables
	***		***	(In mil	lions	of Korean Won)		

				Ca	uure	cervables		
	12	2-Month	Lifetii	me expec				
	e	xpected						Total card
Description	cre	credit losses		npaired		Impaired		receivables
				(In milli	ons c	of Korean Wo	n)	
Beginning of the year	₩	186,440	₩	142,390	₩	225,298	₩	554,128
Transfer to 12-Month expected								
credit losses		49,439		(49,287)		(152)		-
Transfer to lifetime expected								
credit losses		(14,871)		15,045		(174)		-
Transfer to credit-impaired								
financial assets		(117,994)		(56,471)		174,465		-
Impairment loss (reversal)		120,496		111,716		99,160		331,372
Collection (write-off)		-		-		(332,434)		(332,434)
Disposals and others		(27,801)		(2)		(11,563)		(39,366)
Effect of foreign exchange								
differences								
End of the year	₩	195,709	₩	163,391	₩	154,600	₩	513,700

		Others								
	12-	Month	Lifeti	Lifetime expected credit losses						
	ex	pected								Total
Description	cred	it losses	Not In	npaired		Impaired	Tot	al others	All	owances
			(In m	illions of	Kor	ean Won)				
Beginning of the year	₩	18,032	₩	6,368	₩	50,291	₩	74,691	₩	1,685,229
Transfer to 12-Month expected										
credit losses		3,649		(1,461)		(2,188)		-		-
Transfer to lifetime expected										
credit losses		(1,879)		2,388		(509)		-		-
Transfer to credit-impaired										
financial assets		(144)		(233)		377		-		-
Impairment loss (reversal)		(5,359)		1,057		(1,449)		(5,751)		562,208
Collection (write-off)		-		-		(319)		(319)		(693,853)
Disposals and others		-		-		-		-		(39,132)
Effect of foreign exchange differences		_		_		_		_		37,535
End of the year	₩	14,299	₩	8,119	₩	46,203	₩	68,621	₩	1,551,987
Life of the year		17,299		0,119		40,203		00,021	• • •	1,551,967

(4) Gross investments in financial leases and their present value of minimum lease receipts as of December 31, 2022 and December 31, 2021 are as follows.

		December 31, 2022			December 31, 2021			.021
				esent value minimum		investments of minin in financial lease pay		esent value minimum
Description	in financial leases			lease payment receivable				lease payment receivable
Description		icases	(In millions of Korean Won)				ccivatic	
Not later than one year Later than one year and not later	₩	868,890	₩	`		888,358	₩	788,739
than five years		1,423,828		1,293,495		1,421,468		1,324,645
Later than five years		5,215		4,988		6,475		6,236
	₩	2,297,933	₩	2,057,207	₩	2,316,301	₩	2,119,620

(5) Unearned interest income of financial leases as of December 31, 2022 and December 31, 2021 are as follows.

Description		December 31, 2022		December 31, 2021	
		(In millions o	f Korean W	Von)	
Gross investments in financial lease	₩	2,297,933	₩	2,316,301	
Net lease investments:					
Present value of minimum lease payment receivable		2,057,207		2,119,620	
Present value of unguaranteed residual value		3,764		3,852	
		2,060,971		2,123,472	
Unearned interest income	₩	236,962	₩	192,829	

# 15. <u>INVESTMENTS IN OPERATING LEASES (AS A LESSOR)</u>:

(1) Investments in operating leases as of December 31, 2022 and December 31, 2021 are as follows.

Description	Dece	mber 31, 2022	December 31, 2021			
	(In millions of Korean Won)					
Acquisition cost	₩	32,090,728	₩	29,980,884		
Accumulated depreciation		(4,262,026)		(3,477,632)		
Accumulated impairment loss		(147,168)		(175,256)		
	₩	27,681,534	₩	26,327,996		

(2) Future minimum lease payment receivable related to investments in operating leases as of December 31, 2022 and December 31, 2021 is as follows.

Description	Decei	mber 31, 2022	December 31, 2021	
		(In millions o	f Korean V	Won)
Not later than one year	₩	5,001,104	₩	5,323,499
Later than one year and not later				
than five years		5,906,720		5,744,918
Later than five years		111		77
	₩	10,907,935	₩	11,068,494

# 16. **BORROWINGS AND DEBENTURES:**

(1) Short-term borrowings as of December 31, 2022 and December 31, 2021 are as follows.

Description	Lender	Annual interest rate	December 31, 2022	December 31, 2021
		(%)	(In millions of	f Korean Won)
Overdrafts	Citi Bank and others	1.75~3.98	₩ 62,101	₩ 456,044
General borrowings	Korea Development Bank and others	1.93~14.60	5,277,609	3,994,073
Borrowings collateralized				
by trade receivables	Hana Bank and others	$0.00001 \sim 12.54$	2,123,379	3,059,551
Banker's Usance	Hana Bank and others	$0.15 \sim 9.20$	705,155	786,755
Commercial paper	Shinhan Bank and others	3.10~7.10	2,898,236	4,791,413
Credit facilities	Korea Development Bank	2.54	300,000	<u>-</u> _
			₩ 11,366,480	₩ 13,087,836

(2) Long-term debt as of December 31, 2022 and December 31, 2021 are as follows.

Description	Lender	Annual interest rate	December 31, 2022	December 31, 2021	
Description	Lender				
		(%)	(In millions of	f Korean Won)	
General borrowings	Mizuho Bank and others	$0.12 \sim 16.80$	₩ 8,909,156	₩ 9,738,949	
Credit facilities	NH Bank and others	5.85~9.13	40,200	540,600	
Commercial paper	BNK Investment & Securities		·		
	and others	1.19~4.74	2,900,000	1,650,000	
Asset-backed securities	HSBC and others	1.65~5.20	6,377,616	4,136,643	
Others(*)	NH Investment & Securities				
	and others		68,903	392,032	
			18,295,875	16,458,224	
Less: present value discounts			(77,686)	(88,059)	
Less: current maturities			(5,933,040)	(5,702,434)	
			₩ 12,285,149	₩ 10,667,731	

<sup>(\*)</sup> The Group transferred a portion of its voting shares to a third party with the total revenue swap agreement. However, the Group still recognizes it as the financial asset because the Group still owns the majority of the risks and rewards of ownership of the transferred shares. Also, the Group recognized the amount received from disposal as borrowings.

# (3) Debentures as of December 31, 2022 and December 31, 2021 are as follows.

Description	Latest maturity date	Annual interest rate	December 31, 2022	December 31, 2021		
		(%)	(In millions of	Korean Won)		
Non-guaranteed public debentures	March 29, 2032	0.96~6.63	₩ 33,979,495	₩ 31,533,051		
Non-guaranteed private debentures	April 8, 2030	0.80~6.38	25,971,468	27,604,469		
Asset-backed securities	October 16, 2028	0.19~5.52	22,801,451	19,359,999		
			82,752,414	78,497,519		
Less: discount on debentures			(151,263)	(162,242)		
Less: current maturities			(19,641,091)	(14,876,468)		
			₩ 62,960,060	₩ 63,458,809		

# 17. **PROVISIONS**:

(1) Provisions as of December 31, 2022 and December 31, 2021 are as follows.

Description	December 31, 2022		December 31, 2021		
-		(In millions of	n millions of Korean Won)		
Warranty	₩	10,399,527	₩	9,048,185	
Other long-term employee benefits		598,637		676,432	
Others		1,432,417		1,154,167	
	₩	12,430,581	₩	10,878,784	

(2) The changes in provisions for the year ended December 31, 2022 are as follows.

	Other long-term									
Description		Warranty (*)	employee benefits		Others					
		(In r	nillions of Korean Won)							
Beginning of the year	₩	9,048,185	₩ 676,432	₩	1,154,167					
Charged		4,347,523	3,900		953,430					
Utilized		(3,133,544)	(83,682)		(645,750)					
Effect of foreign exchange differences										
and others		137,363	1,987		(29,430)					
End of the year	₩	10,399,527	₩ 598,637	₩	1,432,417					

<sup>(\*)</sup> During the year ended December 31, 2022, the Group updated the measurement of warranty provisions related to the recall of theta 2 and other engines to reflect of new information and a longer period of historical claim data.

The changes in provisions for the year ended December 31, 2021 are as follows.

			Other long-term		
Description		Warranty		Others	
Beginning of the year	₩	8,514,173	₩ 729,996	₩	1,126,719
Charged		2,900,638	42,595		680,707
Utilized		(2,551,716)	(96,713)		(631,469)
Effect of foreign exchange differences					
and others		185,090	554		(21,790)
End of the year	₩	9,048,185	₩ 676,432	₩	1,154,167

# 18. <u>OTHER FINANCIAL LIABILITIES</u>:

(1) Other financial liabilities as of December 31, 2022 are as follows.

		December	31, 2022	2
Description		Current	No	on-current
		(In millions of	Korean V	Won)
Financial liabilities measured at FVPL	₩	10,053	₩	174,386
Derivative liabilities that are effective hedging instruments		88,832		86,464
Financial Liabilities measured at amortized cost		259		1,668
	₩	99,144	₩	262,518

# (2) Other financial liabilities as of December 31, 2021 are as follows.

		December 3	31, 2021	
Description	Cu	ırrent	Non	-current
		In millions of K	orean W	on)
Financial liabilities measured at FVPL	₩	674	₩	53,427
Derivative liabilities that are effective hedging instruments		54,365		32,705
Financial Liabilities measured at amortized cost		148		1,126
	₩	55,187	₩	87,258

# 19. <u>OTHER LIABILITIES</u>:

Other liabilities as of December 31, 2022 and December 31, 2021 are as follows.

		December	r 31,	2022	December 31, 2021					
Description		Current	N	on-current		Current	No	on-current		
Advances received	₩	1,464,339	₩	67,776	₩	1,235,937	₩	42,482		
Withholdings		1,056,483		223,568		968,318		197,714		
Accrued expenses		3,351,822		-		2,851,174		-		
Unearned income		1,090,242		3,150,126		864,536		2,356,667		
Due to customers for contract work		1,217,052		-		902,124		-		
Others		420,303		810,795		618,031		747,755		
	₩	8,600,241	₩	4,252,265	₩	7,440,120	₩	3,344,618		

# **20. FINANCIAL INSTRUMENTS**:

(1) Financial assets by categories as of December 31, 2022 are as follows.

	I	Financial					Deri	vative assets			
		assets	Fin	ancial assets	Fi	nancial assets		are effective			
	m	easured at	n	neasured at		measured at		hedging			
Description		FVPL	am	amortized cost		FVOCI	in	struments	Book value	Book value	
						(In millions o	f Kor	ean Won)			
Cash and											
cash		-		20,864,879					20,864,879		
equivalents	₩		₩		₩	-	₩	- ₩		₩	20,864,879
Short-term and											
long-											
term financial											
instruments		-		5,887,154		-		-	5,887,154		5,887,154
Trade notes and											
accounts											
receivable		-		4,458,838		-		-	4,458,838		4,458,838
Other		-		2,378,968		-		-	2,378,968		2,378,968
receivables											
Other financial		5 710 246		37,898		2,839,581		1,236,696	9,824,521		9,824,521
assets		5,710,346									
Other assets		27,960		434,829		-		-	462,789		462,789
Financial											
services											
receivables	_	_		90,363,846	_	_	_	<u>-</u>	90,363,846		86,705,579
	₩	5,738,306	₩	124,426,412	₩	2,839,581	₩	1,236,696 ₩	134,240,995	₩	130,582,728

Financial assets by categories as of December 31, 2021 are as follows.

Description	Financial assets measured at FVPL	Financial assets measured at amortized cost		Financial assets that are effective measured at FVOCI instruments  [In millions of Korean Won]			<u>I</u>	Book value	Fair value			
Cash and				`			<b></b>					
cash equivalents	₩ -	₩	12,795,554	₩	-	₩	-	₩	12,795,554	₩	12,795,554	
Short-term and long- term financial instruments	_		7,255,743		_		_		7,255,743		7,255,743	
Trade notes and			,,,,						,,,,		,,,,	
accounts receivable	-		3,284,453		_		-		3,284,453		3,284,453	
Other receivables	-		2,076,803		-		-		2,076,803		2,076,803	
Other financial assets	12,472,100		27,195		2,911,523		525,114		15,935,932		15,935,932	
Other assets	23,568		331,353		-		-		354,921		354,921	
Financial services												
receivables		81,029,132		<u> </u>		<u> </u>		- 8			81,059,639	
	₩ 12,495,668	₩	106,800,233	₩	2,911,523	₩	525,114	₩	122,732,538	₩	122,763,045	

# (2) Financial liabilities by categories as of December 31, 2022 are as follows.

Description	Financial liabilities  Financial liabilities  measured at FVPL  measured at FVPL  formula liabilities  measured at formula liabilities  measured at formula liabilities  measured at formula liabilities  that are effective  hedging instruments  (In millions of Korean Won)						Book value Fair value					
Trade notes and												
accounts payable	₩	-	₩	10,797,065	₩	-	₩	10,797,065	₩	10,797,065		
Other payables		-		7,292,508		-		7,292,508		7,292,508		
Borrowings and												
debentures	27,2	39		112,158,581		-		112,185,820		108,603,134		
Other financial liabilities	184,4	39		1,927		175,296		361,662		361,662		
Lease liabilities		-		1,110,804		-		1,110,804		1,110,804		
Other liabilities		_		2,960,053		<u>-</u>		2,960,053		2,960,053		
	₩ 211,6	78	₩	134,320,938	₩	175,296	₩	134,707,912	₩	131,125,226		

Financial liabilities by categories as of December 31, 2021 are as follows.

Description	Financial liabilities measured at FVPL		Financial liabilities measured at amortized cost	Derivative liabilities that are effective hedging instruments	]	Book value		Fair value
			(In	millions of Korean Wo	n)			
Trade notes and								
accounts payable	₩	-	₩ 9,155,255	₩ -	₩	9,155,255	₩	9,155,255
Other payables		-	5,422,320	-		5,422,320		5,422,320
Borrowings and								
debentures		-	107,793,278	-		107,793,278		108,112,411
Other financial liabilities	54,10	1	1,274	87,070		142,445		142,445
Lease liabilities		-	950,572	-		950,572		950,572
Other liabilities		-	2,415,891	-		2,415,891		2,415,891
	₩ 54,10	)1	₩ 125,738,590	₩ 87,070	₩	125,879,761	₩	126,198,894

## (3) Fair value estimation

The Group categorizes the assets and liabilities measured at fair value into the following three-level fair value hierarchy in accordance with the inputs used for fair value measurement.

- Level 1: Quoted prices (unadjusted) in active markets for identical assets or liabilities.
- Level 2: Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly (i.e. as prices) or indirectly (i.e. derived from prices).
- Level 3: Inputs for the asset or liability that are not based on observable market data (unobservable inputs)

Fair value measurements of financial instruments by fair value hierarchy levels as of December 31, 2022 are as follows.

	December 31, 2022											
	Level 1		Level 2		Level 3		Total					
	_		(In millions of	Kore	an Won)		_					
₩	57,556	₩	5,412,130	₩	268,620	₩	5,738,306					
	-		1,236,696		-		1,236,696					
	1,493,627		451,990		893,964		2,839,581					
₩	1,551,183	₩	7,100,816	₩	1,162,584	₩	9,814,583					
-												
₩	-	₩	11,451	₩	200,227	₩	211,678					
	-		173,361	1,935			175,296					
₩	-	₩	184,812	₩	202,162	₩	386,974					
	₩	₩ 57,556  - 1,493,627  ₩ 1,551,183	₩ 57,556 ₩  -  1,493,627  ₩ 1,551,183  ₩  -	Level 1     Level 2       (In millions of       ₩     57,556     ₩     5,412,130       -     1,236,696       -     451,990       ₩     1,551,183     ₩     7,100,816       ₩     -     ₩     11,451       -     173,361	Level 1     Level 2       (In millions of Kore       ₩     57,556     ₩     5,412,130     ₩       -     1,236,696       1,493,627     451,990     ₩       ₩     1,551,183     ₩     7,100,816     ₩       ₩     -     ₩     11,451     ₩       -     173,361	(In millions of Korean Won)         ₩       57,556       ₩       5,412,130       ₩       268,620         -       1,236,696       -         -       451,990       893,964         ₩       1,551,183       ₩       7,100,816       ₩       1,162,584         ₩       -       ₩       11,451       ₩       200,227         -       173,361       1,935	Level 1         Level 2         Level 3           (In millions of Korean Won)         (In millions of Korean Won)           ₩         57,556         ₩         5,412,130         ₩         268,620         ₩           -         1,236,696         -         -         -         893,964         ₩         1,162,584         ₩           ₩         1,551,183         ₩         7,100,816         ₩         1,162,584         ₩           ₩         -         ₩         11,451         ₩         200,227         ₩           -         173,361         1,935					

Fair value measurements of financial instruments by fair value hierarchy levels as of December 31, 2021 are as follows.

				December	31, 2	2021			
Description		Level 1		Level 2		Level 3		Total	
				(In millions of	Kore	an Won)		_	
Financial assets:									
Financial assets measured									
at FVPL	₩	107,290	₩	12,226,048	₩	162,330	₩	12,495,668	
Derivative assets that are									
effective hedging instruments		-		525,114		-		525,114	
Financial assets measured									
at FVOCI		1,561,959		435,797	7 913,7			2,911,523	
	₩	1,669,249	₩	13,186,959	₩	1,076,097	₩	15,932,305	
Financial liabilities:								_	
Financial liabilities measured									
at FVPL	₩	-	₩	962	₩	53,139	₩	54,101	
Derivative liabilities that are									
effective hedging instruments		=		87,070				87,070	
	₩		₩	88,032	₩	53,139	₩	141,171	

The changes in financial instruments classified as Level 3 for the year ended December 31, 2022 are as follows.

Description		eginning the period	Pu	rchases	Dis	posals	V	aluation		Others		End of e period
Bescription		are period				(In millions of				-		Period
Financial assets measured					(111	mminons	0111	orean won,				
at FVPL	₩	162,330	₩	92,328	₩	(6,107)	₩	8,529	₩	11,540	₩	268,620
Financial assets measured												
at FVOCI		913,767		12,373		(874)		79,143		(110,445)		893,964
Financial liabilities measured												
at FVPL		53,139		29,884		-		2,169		115,035		200,227
Derivative liabilities that are effective hedging instruments		-		1,935		-		-		-		1,935

The changes in financial instruments classified as Level 3 for the year ended December 31, 2021 are as follows.

Description	Beginnin of the peri	_	urchases	Disposals	Valuation	Others		End of e period
				(In millions	of Korean Wo	n)		
Financial assets measured at FVPL	₩ 515,0	20 ₩	38,076	₩ (411,334)	₩ 20,568	₩ -	₩	162,330
Financial assets measured at FVOCI	739,6	69	66,580	(2,579)	73,805	36,292		913,767
Financial liabilities measured at FVPL		-	52,323	-	816	-		53,139

(4) Financial assets and liabilities subject to offsetting, and financial instruments subject to an enforceable master netting arrangement or similar agreement as of December 31, 2022 are as follows.

			Gros	s amounts			F	Related	Related			
				ecognized		t amounts of		ints not set	amounts not	-		
				icial assets		ancial assets		ff in the	set off in the	•		
				liabilities		d liabilities	con	solidated	statement of	Ĩ		
				off in the		sented in the		ement of	financial			
		oss amounts		solidated		onsolidated		nancial	position -			
		recognized		ement of	st	atement of		osition -	collateral			
D : .:		incial assets		nancial		financial		nancial	received		<b>3</b> .T	
Description	and	d liabilities	p	osition		position		truments	(pledged)		_N(	et amounts
Financial assets:					(1	n millions of	Koreai	i won)				
Trade notes and accounts												
receivable	₩	4,731,300	₩	272,462	₩	4,458,838	₩		₩		₩	4,458,838
Other receivables	''	3,005,009	**	626,041	''	2,378,968	• • •	_	**	-	**	2,378,968
Financial assets measured at		3,003,007		020,041		2,370,700						2,376,700
FVPL		47,256		_		47,256		_		_		47,256
Derivative assets that are		,				,						,
effective hedging instruments (*)		1,236,696		-		1,236,696		93,233		-		1,143,463
	₩	9,020,261	₩	898,503	₩	8,121,758	₩	93,233	₩	_	₩	8,028,525
Financial liabilities:										_		<u> </u>
Trade notes and accounts												
payable	₩	11,418,549	₩	621,484	₩	10,797,065	₩	-	₩	-	₩	10,797,065
Other payables		7,569,527		277,019		7,292,508		-		-		7,292,508
Financial liabilities measured at												
FVPL		211,678		-		211,678		-		-		211,678
Derivative liabilities that are												
effective hedging instruments (*)		175,296				175,296		93,233		_		82,063
	₩	19,375,050	₩	898,503	₩	18,476,547	₩	93,233	₩	_	₩	18,383,314

<sup>(\*)</sup> These are derivative assets and liabilities that the Group may have the right to offset in the event of default, insolvency or bankruptcy of the counterparty although these do not meet the criteria of offsetting under K-IFRS 1032.

Financial assets and liabilities, subject to offsetting, and financial instruments subject to an enforceable master netting arrangement or similar agreement as of December 31, 2021 are as follows.

				s amounts			_	Related	Rela			
				ecognized		t amounts of		ints not set	amoun			
				cial assets		ancial assets		f in the	set off			
				liabilities		d liabilities		solidated	statem			
	_			off in the		sented in the		ement of	finan			
		oss amounts		solidated		onsolidated		nancial	positi			
		recognized ancial assets		ement of nancial	SI	atement of financial		sition - nancial	collat recei			
Description		d liabilities		osition		position		truments	(pled		NI.	et amounts
Description	an	d Habililles	p	OSITIOII		position	IIIS	uments				orean Won)
Financial assets:									(111)	IIIIIIIIIIIII	01 K	orean won)
Trade notes and accounts												
receivable	₩	3,519,284	₩	234,831	₩	3,284,453	₩	-	₩	-	₩	3,284,453
Other receivables		2,573,976		497,173		2,076,803		-		-		2,076,803
Financial assets measured at												
FVPL		14,534		-		14,534		21		-		14,513
Derivative assets that are												
effective hedging instruments (*)		525,114		-		525,114		18,204				506,910
	₩	6,632,908	₩	732,004	₩	5,900,904	₩	18,225	₩		₩	5,882,679
Financial liabilities:												
Trade notes and accounts												
payable	₩	9,640,133	₩	484,878	₩	9,155,255	₩	-	₩	-	₩	9,155,255
Other payables		5,669,446		247,126		5,422,320		-		-		5,422,320
Financial liabilities measured at												
FVPL		54,101		-		54,101		21		-		54,080
Derivative liabilities that are		05.050				0.7.0.7.0		10.001				
effective hedging instruments (*)	***	87,070	***		***	87,070	***	18,204			***	68,866
	₩	15,450,750	₩	732,004	₩	14,718,746	₩	18,225	₩		₩	14,700,521

<sup>(\*)</sup> These are derivative assets and liabilities that the Group may have the right to offset in the event of default, insolvency or bankruptcy of the counterparty although these do not meet the criteria of offsetting under K-IFRS 1032.

(5) Interest income, dividend income and interest expenses by categories of financial instruments for the year ended December 31, 2022 are as follows.

	2022								
		Interest	Dividend		Interest				
Description		income	i	ncome	expenses				
	(In millions of Korean Won)								
Non-financial services:									
Financial assets measured									
at amortized cost	₩	489,133	₩	-	₩	-			
Financial assets									
measured at FVPL		150,084		-		-			
Financial assets measured									
at FVOCI		-		44,533		-			
Financial liabilities measured									
at amortized cost		-		-		434,059			
	₩	639,217	₩	44,533	₩	434,059			
Financial services:									
Financial assets measured									
at amortized cost	₩	3,466,000	₩	_	₩	_			
Financial assets measured									
at FVPL		5,825		1,300		-			
Financial assets measured									
at FVOCI		899		_		_			
Financial liabilities measured									
at amortized cost		-		-		2,277,906			
	₩	3,472,724	₩	1,300	₩	2,277,906			

Interest income, dividend income and interest expenses by categories of financial instruments for the year ended

	2021							
		Interest	Di	Dividend		Interest		
Description		income	i1	ncome		expenses		
		(Iı	n millions	of Korean Wor	n)			
Non-financial services:		`						
Financial assets measured								
at amortized cost	₩	248,198	₩	-	₩	-		
Financial assets		,						
measured at FVPL		100,415		_		_		
Financial assets measured		,						
at FVOCI		_		28,419		_		
Financial liabilities measured				,				
at amortized cost		_		_		267,648		
	₩	348,613	₩	28,419	₩	267,648		
Financial services:		<u> </u>		· · · · · · · · · · · · · · · · · · ·		<u> </u>		
Financial assets measured								
at amortized cost	₩	4,138,039	₩	-	₩	-		
Financial assets measured								
at FVPL		4,040		1,721		-		
Financial assets measured								
at FVOCI		203		-		-		
Financial liabilities measured								
at amortized cost		-		-		1,730,903		
	₩	4,142,282	₩	1,721	₩	1,730,903		

- (6) The commission income (financial services revenue) arising from financial assets or liabilities other than financial assets or liabilities measured at FVPL for the years ended December 31, 2022 and 2021 are \(\pm\)1,011,152 million and \(\pm\)923,656 million, respectively. In addition, the fee expenses (cost of sales from financial services) related to financial assets or liabilities other than financial assets or liabilities measured at FVPL for the years ended December 31, 2022 and 2021 are \(\pm\)427,606 million and \(\pm\)374,229 million, respectively.
- (7) The Group recognizes transfers between levels of the fair value hierarchy at the date of the event or change in circumstances that caused the transfer. There are no significant transfers between Level 1 and Level 2 for the year ended December 31, 2022.
- (8) Descriptions of the valuation techniques and the inputs used in the fair value measurements categorized within Level 2 and Level 3 of the fair value hierarchy are as follows.
  - Currency forwards, options and swap

Fair value of currency forwards, options and swap is measured based on forward exchange rate quoted in the current market at the end of the reporting period, which has the same remaining period of derivatives to be measured. If the forward exchange rate, which has the same remaining period of currency forwards, options and swap, is not quoted in the current market, fair value is measured using estimates of similar period of forward exchange rate by applying interpolation method with quoted forward exchange rates.

As the inputs used to measure fair value of currency forwards, options and swap are supported by observable market data, such as forward exchange rates, the Group classifies the estimates of fair value measurements of the currency forwards, options and swap as Level 2 of the fair value hierarchy.

#### - Interest rate swap

The discount rate and forward interest rate used to measure the fair value of interest rate swap are determined based on an applicable yield curve derived from interest quoted in the current market at the end of the reporting period. The fair value of interest rate swap was measured as a discount on the estimated future cash flows of interest rate swap based on forward interest rates derived from the above method at an appropriate discount rate.

As the inputs used to measure fair value of interest rate swap are supported by observable market data, such as yield curves, the Group classifies the estimates of fair value measurements of the interest rate swap as Level 2 of the fair value hierarchy.

## - Debt instruments including corporate bonds

Fair value of debt instruments including corporate bonds is measured applying discounted cash flow method. The rate used to discount cash flows is determined based on swap rate and credit spreads of debt instruments, which have the similar credit rating and period quoted in the current market with those of debt instruments including corporate bonds that should be measured. The Group classifies fair value measurements of debt instruments including corporate bonds as Level 2 of the fair-value hierarchy since the rate, which has significant effects on fair value of debt instruments including corporate bonds, is based on observable market data.

### - Unlisted equity securities

Fair value of unlisted equity securities is measured using discounted cash flow projection and market approach, and as for discounted cash flow projections, certain assumptions not based on observable market prices or rate, such as sales growth rate, pre-tax operating income ratio and discount rate based on business plan and circumstance of industry are used to estimate the future cash flow. The discount rate used to discount the future cash flows, is calculated by applying the Capital Asset Pricing Model, using the data of similar listed companies. The Group determines that the effect of estimation and assumptions referred above affecting fair value of unlisted equity securities is significant and classifies fair value measurements of unlisted securities as Level 3 of the fair value hierarchy.

### - Redeemable convertible preference share

The fair value of redeemable convertible preference share is measured based on the fair value, exercise price, maturity, and the stock price volatility up to the maturity of the underlying asset, using the binomial option pricing model. The discount rate used in the binomial option pricing model is applied by converting the rate of return on corporate bonds with equivalent credit rating corresponding to the remaining maturity into a continuous compounding discount rate, and the stock price volatility up to maturity uses historical volatility of proxy companies in similar industries in response to the remaining maturity. The fair value of the underlying asset is assumed to be maintained until the end of the current period after estimating the underlying asset value on the contracted date by inverting the underlying asset value inherent in the terms of the transaction on the premise that the acquisition transaction of related shares in the current period is an orderly transaction and traded at fair value. The group classifies the fair value measurement of redeemable convertible preference share as Level 3 in the fair value hierarchy based on the assumption that the effect of the above assumptions and estimates on the fair value of redeemable convertible preference share classified.

(9) The quantitative information about significant unobservable inputs used in the fair value measurements categorized within Level 3 of the fair value hierarchy and the description of relationships of significant unobservable inputs to the fair value are as follows:

	Fair va December					
	Financial	Financial	Valuation	Unobservable		Description of
Description	assets	liabilities	techniques	inputs	Range	relationship
	(In millions of	Korean Won)				
Unlisted equity securities,	₩ 1,162,584	₩ 202,162	Discounted cash flow	Sales growth rate	-8.8% ~ -2.6%	If the sales growth rate,
redeemable convertible preference share and others			and others	Pre-tax operating profit margin ratio	2.0% ~ 7.6%	the pre-tax operating profit margin ratio and stock price volatility
				Discount rate	8.3%	increases or
				Stock price volatility	59.2% ~ 60.1%	the discount rate declines, the fair value increases.

The Group does not expect changes in significant unobservable inputs would have a significant impact on the fair value, taking into account reasonable alternative assumptions.

# 21. <u>CAPITAL STOCK</u>:

The Company's number of shares authorized is 600,000,000 shares. Common stock and preferred stock as of December 31, 2022 and December 31, 2021 are as follows.

## (1) Common stock

Description		December 31, 2022	December 31, 2021		
		(In millions of Korean	Won, except par	value)	
Issued		213,668,187 shares		213,668,187 shares	
Par value	₩	5,000	₩	5,000	
Capital stock		1,157,982		1,157,982	

The Company completed stock retirement of 10,000,000 common shares, 1,320,000 common shares and 6,608,292 common shares as of March 5, 2001, May 4, 2004 and July 27, 2018 respectively. Due to these stock retirements, the total face value of outstanding stock differs from the capital stock amount.

#### (2) Preferred stock

Description	Par	r value	Issued	Korean Won		Dividend rate			
				(In n	nillions of				
				Kore	ean Won)				
1st preferred stock	₩	5,000	24,356,685 shares	₩	125,550	Dividend rate of common stock + 1%			
2 <sup>nd</sup> preferred stock		"	36,485,451 shares		193,069	The lowest stimulated dividend rate: 2%			
3 <sup>rd</sup> preferred stock		"	2,428,735 shares		12,392	The lowest stimulated dividend rate: 1%			
			63,270,871 shares	₩	331,011				

As of March 5, 2001, the Company retired 1,000,000 second preferred shares and as of July 27, 2018, the Company retired 753,297 first preferred shares, 1,128,414 second preferred shares and 49,564 third preferred shares. Due to the stock retirement, the total face value of outstanding stock differs from the capital stock amount.

# 22. <u>CAPITAL SURPLUS</u>:

Capital surplus as of December 31, 2022 and December 31, 2021 are as follows.

Dece	mber 31, 2022	December 31, 2021		
	(In millions o	f Korean W	on)	
₩	3,321,334	₩	3,321,334	
	919,969		748,926	
₩	4,241,303	₩	4,070,260	
	₩	₩ 3,321,334 919,969	(In millions of Korean W 3,321,334 W 919,969	

<sup>(\*)</sup> During the year ended December 31, 2022, the Group disposed of 2,216,983 shares of treasury stocks through treasury stock exchange with KT Corporation, and recognized gain on disposal of treasury stocks in the amount of \$118,686 million.

# 23. <u>OTHER CAPITAL ITEMS</u>:

Other capital items consist of treasury stocks purchased for the stabilization of stock price. Number of treasury stocks as of December 31, 2022 and December 31, 2021 are as follows.

	December 31,	December 31,
Description	2022	2021
	(Number	of shares)
Common stock	11,408,711	14,048,242
1 <sup>st</sup> preferred stock	2,430,559	2,333,133
2 <sup>nd</sup> preferred stock	1,718,424	1,572,482
3 <sup>rd</sup> preferred stock	72,861	63,146

# 24. ACCUMULATED OTHER COMPREHENSIVE LOSS:

(1) Accumulated other comprehensive loss as of December 31, 2022 is as follows.

Description	December 31, 2022				
		(In millions of Korean Won)			
Gain on valuation of financial assets measured at FVOCI	₩	418,986			
Loss on valuation of financial assets measured at FVOCI		(768,117)			
Gain on valuation of cash flow hedge derivatives		276,938			
Loss on valuation of cash flow hedge derivatives		(93,162)			
Gain on share of the other comprehensive income of					
equity-accounted investees		195,912			
Loss on share of the other comprehensive income of					
equity-accounted investees		(715,558)			
Loss on foreign operations translation, net		(935,681)			
	₩	(1,620,682)			

## (2) Accumulated other comprehensive loss as of December 31, 2021 is as follows.

Description		December 31, 2021			
	(In	millions of Korean Won)			
Gain on valuation of financial assets measured at FVOCI	₩	451,693			
Loss on valuation of financial assets measured at FVOCI		(370,812)			
Gain on valuation of cash flow hedge derivatives		56,048			
Loss on valuation of cash flow hedge derivatives		(42,068)			
Gain on share of the other comprehensive income of					
equity-accounted investees		228,299			
Loss on share of the other comprehensive income of					
equity-accounted investees		(587,620)			
Loss on foreign operations translation, net		(1,508,141)			
	₩	(1,772,601)			

# 25. <u>RETAINED EARNINGS</u>:

(1) Retained earnings as of December 31, 2022 and December 31, 2021 are as follows.

Description		December 31, 2022	December 31,2021				
		(In millions of Korean Won)					
Legal reserve (*)	₩	744,836	₩	744,836			
Discretionary reserve		47,307,996		47,701,296			
Unappropriated		31,900,769		24,721,723			
	₩	79,953,601	₩	73,167,855			

<sup>(\*)</sup> The Commercial Code of the Republic of Korea requires the Company to appropriate as a legal reserve, a minimum of 10% of annual cash dividends declared, until such reserve equals 50% of its capital stock issued. The reserve is not available for the payment of cash dividends, but may be transferred to capital stock or used to reduce accumulated deficit, if any.

Appraisal gains, amounting to \$1,852,871 million, derived from asset revaluation pursuant to the Asset Revaluation Law of Korea are included in retained earnings. It may be only transferred to capital stock or used to reduce accumulated deficit, if any.

(2) The computation of the interim dividends for the year ended December 31, 2022 is as follows.

D 11		Common	1	st Preferred	2 <sup>n</sup>	d Preferred	31	rd Preferred
Description	stock		stock		stock		stock	
	(In millions of Korean Won, except per share amounts)							
Par value per share	₩	5,000	₩	5,000	₩	5,000	₩	5,000
Shares, net of treasury stocks		198,765,273		21,926,126		34,767,027		2,355,874
Dividends per share	₩	1,000	₩	1,000	₩	1,000	₩	1,000
Dividend rate		20%		20%		20%		20%
Dividends declared		198,764		21,926		34,767		2,356

The computation of the interim dividends for the year ended December 31, 2021 is as follows.

<b>5</b>		Common	1	st Preferred	2 <sup>r</sup>	d Preferred	3 <sup>r</sup>	d Preferred
Description	stock		stock		stock		stock	
	(In millions of Korean Won, except per share amounts)							
Par value per share	₩	5,000	₩	5,000	₩	5,000	₩	5,000
Shares, net of treasury stocks		200,576,769		22,169,692		35,131,881		2,380,161
Dividends per share	₩	1,000	₩	1,000	₩	1,000	₩	1,000
Dividend rate		20%		20%		20%		20%
Dividends declared		200,577		22,170		35,132		2,380

(3) The computation of the proposed dividends for the year ended December 31, 2022 is as follows.

		Common	1	st Preferred	2 <sup>n</sup>	d Preferred	31	rd Preferred
Description		stock		stock		stock		stock
		(In millions of Korean Won, except per share amounts)						ints)
Par value per share	₩	5,000	₩	5,000	₩	5,000	₩	5,000
Shares, net of treasury stocks		202,259,476		21,926,126		34,767,027		2,355,874
Dividends per share	₩	6,000	₩	6,050	₩	6,100	₩	6,050
Dividend rate		120%		121%		122%		121%
Dividends declared		1,213,557		132,653		212,079		14,253

The computation of the dividends for the year ended December 31, 2021 is as follows.

		Common	1	st Preferred	$2^{n}$	d Preferred	3	rd Preferred
Description		stock		stock		stock		stock
		(In millions of Korean Won, except per share amounts)						unts)
Par value per share	₩	5,000	₩	5,000	₩	5,000	₩	5,000
Shares, net of treasury stocks		199,619,945		22,023,552		34,912,969		2,365,589
Dividends per share	₩	4,000	₩	4,050	₩	4,100	₩	4,050
Dividend rate		80%		81%		82%		81%
Dividends declared		798,480		89,195		143,143		9,581

# 26. HYBRID BOND:

(1) HYUNDAI CARD CO., LTD., a subsidiary of the Company, issued hybrid bond and the Group classified it as equity (non-controlling interests). As of December 31, 2022, hybrid bond is as follows.

			Annual		
Description	Issue date	Maturity date	interest rate	Decen	nber 31, 2022
			(%)	(In millions	of Korean Won)
The 731st Hybrid Tier 1 (Private)	July 5, 2018	July 5, 2048	4.70	₩	300,000
Issue cost					(760)
				₩	299,240

(2) As of December 31, 2022, the conditions of hybrid bond that HYUNDAI CARD CO., LTD., a subsidiary of the Company issued are as follows.

	Description
Maturity	Thirty years (Maturity extension is possible according to the issuer's decision upon maturity)
Interest rate	Issue date $\sim$ July 5, 2023 : An annual fixed interest rate 4.7% Increase of 2% after five years which is limited to one time only in accordance with Step-up clause
Interest payment condition	Three months, optional postponement of payment
Others	Repayment before maturity by issuer is available after five years from issue date

# 27. **SALES**:

(1) Sales for the years ended December 31, 2022 and 2021 are as follows.

Description		2022		2021
		Won)		
Sales of goods	₩	121,128,808	₩	99,722,885
Rendering of services		3,577,155		2,624,047
Royalties		252,904		276,564
Financial services revenue		13,764,122		11,536,970
Revenue related to construction contracts		3,099,326		2,814,036
Others		705,220		636,124
	₩	142,527,535	₩	117,610,626

(2) As of December 31, 2022, the aggregate transaction price allocated to the unsatisfied (or partially unsatisfied) performance obligation that is expected to be recognized as revenue in future periods is as follows.

Description	<u> </u>	Within a year	After a y	<i>r</i> ear	
		(In millions of Korean Won)			
Deferred revenue and others	₩	2,016,748	₩	3,079,984	

# 28. <u>SELLING AND ADMINISTRATIVE EXPENSES</u>:

Selling and administrative expenses for the years ended December 31, 2022 and 2021 are as follows.

Description		2022	2021			
	(In millions of Korean Won)					
Selling expenses:						
Export expenses	₩	78,842	₩	46,057		
Overseas market expenses		443,923		412,476		
Advertisements and sales promotion		3,102,616		2,609,784		
Sales commissions		909,093		983,949		
Expenses for warranties		4,346,694		2,947,290		
Transportation expenses		101,995		116,035		
		8,983,163		7,115,591		
Administrative expenses:						
Payroll		3,265,946		2,882,164		
Post-employment benefits		173,367		177,845		
Welfare expenses		550,396		496,461		
Service charges		1,682,831		1,529,151		
Research		1,762,749		1,534,993		
Others		2,079,831		1,515,341		
		9,515,120		8,135,955		
	₩	18,498,283	₩	15,251,546		

# 29. GAIN(LOSS) ON INVESTMENTS IN JOINT VENTURES AND ASSOCIATES:

Gain(loss) on investments in joint ventures and associates for the years ended December 31, 2022 and 2021 is as follows.

Description		2022		2021
		Won)		
Gain on share of earnings of equity-accounted investees, net	₩	1,635,777	₩	1,278,591
Gain on disposals of investments in associates		63,992		38,106
Impairment loss on investments in associates		(143,186)		(13,332)
	₩	1,556,583	₩	1,303,365

# **30. FINANCE INCOME AND EXPENSES:**

(1) Finance income for the years ended December 31, 2022 and 2021 are as follows.

Description		2022	2021		
	(In millions of Korean Won)				
Interest income	₩	639,217 ₩	348,613		
Gain on foreign exchange transactions		146,066	62,003		
Gain on foreign currency translation		333,849	162,811		
Dividend income		44,533	28,419		
Gain on derivatives		18,689	89,522		
Others		36,459	221,434		
	₩	1,218,813 ₩	912,802		

(2) Finance expenses for the years ended December 31, 2022 and 2021 are as follows.

Description		2022	2021
		rean Won)	
Interest expenses	₩	536,086 ₩	304,542
Loss on foreign exchange transactions		77,799	54,622
Loss on foreign currency translation		416,846	182,233
Loss on derivatives and others		23,497	7,013
	₩	1,054,228 ₩	548,410

# 31. OTHER INCOME AND EXPENSES:

(1) Other income for the years ended December 31, 2022 and 2021 are as follows.

Description	Description 2022		2021
	· •	ean Won)	
Gain on foreign exchange transactions	₩	827,960 ₩	624,884
Gain on foreign currency translation		688,119	220,468
Gain on disposals of PP&E		49,442	23,978
Commission income		18,335	22,716
Rental income		97,905	94,528
Others		575,352	460,687
	₩	2,257,113 ₩	1,447,261

(2) Other expenses for the years ended December 31, 2022 and 2021 are as follows.

Description		2022		2021
		Won)		
Loss on foreign exchange transactions	₩	738,469	₩	527,878
Loss on foreign currency translation		814,458		231,859
Loss on disposals of PP&E		177,132		57,899
Donations		89,984		66,249
Others		1,030,064		950,520
	₩	2,850,107	₩	1,834,405

#### 32. EXPENSES BY NATURE:

Expenses by nature for the years ended December 31, 2022 and 2021 are as follows.

Description	2022		2021	
	_	rean Won)		
Changes in inventories	₩	(1,677,346)	₩ 434,	257
Raw materials and merchandise used		80,774,363	67,579,	,441
Employee benefits		10,667,028	9,613,	599
Depreciation		3,180,687	2,937,9	914
Amortization		1,866,935	1,617,	,823
Others		40,746,206	30,583,	048
Total (*)	₩	135,557,873	₩ 112,766,	082

<sup>(\*)</sup> Sum of cost of sales, selling and administrative expenses and other expenses in the consolidated statements of income.

#### 33. EARNINGS PER COMMON STOCK AND PREFERRED STOCK:

Basic earnings per common stock and preferred stock are computed by dividing profit available to common stock and preferred stock by the weighted-average number of common stock and preferred stock outstanding during the year. The Group does not compute diluted earnings per common stock for the years ended December 31, 2022 and 2021, since there are no dilutive items during the years.

Basic earnings per common stock and preferred stock for the years ended December 31, 2022 and 2021 are computed as follows.

	For the yea	r ended December 3	31, 2022	For the year ended December 31, 2021				
		Weighted-		Weighted-				
	Profit	average number	Basic	Profit	average number	Basic		
	attributable to	of shares	earnings	attributable to	of shares	earnings		
Description	share	outstanding (*1)	per share	share	outstanding (*1)	per share		
		(In millions of	Korean Won	, except per share	e amounts)			
Common stock	₩ 5,696,576	199,735,258	₩ 28,521	₩ 3,806,754	200,578,742	₩ 18,979		
1 <sup>st</sup> Preferred stock (*2)	618,639	21,932,141	28,207	421,090	22,160,384	19,002		
2 <sup>nd</sup> Preferred stock	982,679	34,775,916	28,257	669,282	35,117,788	19,058		
3 <sup>rd</sup> Preferred stock	66,470	2,356,491	28,207	45,230	2,379,240	19,010		

 $<sup>(*1) \ \</sup> Weighted-average \ number \ of \ shares \ outstanding \ includes \ the \ effects \ of \ treasury \ stock \ transactions.$ 

# 34. <u>INCOME TAX EXPENSE</u>:

(1) The components of income tax expense for the years ended December 31, 2022 and 2021 are as follows.

Description		2022		2021
		Won)		
Current tax expense	₩	2,705,459	₩	1,816,699
Adjustments recognized in the current year in relation to				
the prior years		66,052		(274,525)
Changes in deferred taxes relating to				
Temporary differences		(623,348)		1,718,022
Tax losses and tax credits		949,285		(683,646)
Items that are charged or credited directly to equity		(186,176)		(104,461)
Effect of foreign exchange differences and others		53,057		(205,604)
Income tax expense	₩	2,964,329	₩	2,266,485

<sup>(\*2) 1</sup>st preferred stock meets the definition of 'ordinary shares' as defined in K-IFRS 1033 'Earnings per Share'.

# (2) The reconciliation from profit before income tax to income tax expense for the years ended December 31, 2022 and 2021 are as follows.

Description		2022		2021	
	(In millions of Korean Won)				
Profit before income tax	₩	10,947,943	₩	7,959,562	
Income tax expense calculated at the applicable					
tax rates of 27.2% in 2022 and 21.4% in 2021		2,973,667		1,699,706	
Adjustments:					
Non-taxable income		(91,601)		(100,314)	
Non-deductible expenses		399,296		261,172	
Tax credits		(528,986)		(429,012)	
Others		211,953		834,933	
		(9,338)		566,779	
Income tax expense	₩	2,964,329	₩	2,266,485	
Effective tax rate		27.1%		28.5%	

# (3) The changes in deferred tax assets (liabilities) for the year ended December 31, 2022 are as follows.

5	Beginning			End		
Description	C	of the year	Changes			of the year
		(In	millioı	ns of Korean V	Won)	
Provisions	₩	2,824,209	₩	451,449	₩	3,275,658
Financial assets measured at FVPL		1,231		308		1,539
Financial assets measured at FVOCI		(121,184)		113,194		(7,990)
Investment of subsidiaries, associates and joint ventures		(1,578,133)		(418,369)		(1,996,502)
Derivatives		(1,516)		(93,536)		(95,052)
PP&E		(5,861,743)		60,309		(5,801,434)
Accrued income		(15,840)		(2,927)		(18,767)
Gain (loss) on foreign currency translation, net		(136)		(197)		(333)
Others		(42,945)		513,117		470,172
		(4,796,057)		623,348		(4,172,709)
Carryforward of tax losses and tax credits		3,331,562		(949,285)		2,382,277
	₩	(1,464,495)	₩	(325,937)	₩	(1,790,432)

The changes in deferred tax assets (liabilities) for the year ended December 31, 2021 are as follows.

	Beginning					End
Description		of the year		Changes		of the year
		(In	millio	ons of Korean V	Won)	
Provisions	₩	2,713,730	₩	110,479	₩	2,824,209
Financial assets measured at FVPL		1,795		(564)		1,231
Financial assets measured at FVOCI		(137,271)		16,087		(121,184)
Investment of subsidiaries, associates and joint		(1,516,729)		(61,404)		(1,578,133)
ventures						
Derivatives		(45,697)		44,181		(1,516)
PP&E		(5,058,726)		(803,017)		(5,861,743)
Accrued income		61,186		(77,026)		(15,840)
Gain (loss) on foreign currency translation, net		431		(567)		(136)
Others		903,246		(946,191)		(42,945)
		(3,078,035)		(1,718,022)		(4,796,057)
Carryforward of tax losses and tax credits		2,647,916		683,646		3,331,562
	₩	(430,119)	₩	(1,034,376)	₩	(1,464,495)

(4) Income taxes relating to items that are charged or credited directly to equity for the years ended December 31, 2022 and 2021 are as follows.

Description		2022		2021
	(In millions of Korean Won			ın Won)
Gain on disposal of treasury stocks	₩	(66,131)	₩	(9,451)
Loss (gain) on financial assets measured at FVOCI, net		97,671		(32,147)
Loss (gain) on valuation of cash flow hedge derivatives, net		(78,505)		5,848
Remeasurements of defined benefit plans		(152,166)		(64,906)
Changes in retained earnings of equity-accounted investees, net		12,955		(3,805)
	₩	(186,176)	₩	(104,461)

(5) The amount of temporary differences associated with investments in subsidiaries, joint ventures and associates, for which deferred tax liabilities are not recognized, are \( \mathbb{W} \) 8,948,716 million and \( \mathbb{W} \) 5,644,375 million as of December 31, 2022 and 2021, respectively.

#### 35. RETIREMENT BENEFIT PLAN:

(1) Expenses recognized in relation to defined contribution plans for the years ended December 31, 2022 and 2021 are as follows.

Description	2022		2021			
	(In millions of Korean Won)					
Paid-in cash	₩	14,377	₩	11,650		
Recognized liability		4,754		3,320		
	₩	19,131	₩	14,970		

(2) The significant actuarial assumptions used by the Group as of December 31, 2022 and December 31, 2021 are as follows.

Description	December 31, 2022	December 31, 2021
Discount rate (*)	5.29%	3.84%
Rate of expected future salary increase	4.05%	4.51%

(\*) The Group applied the market yields of high-quality corporate bonds (AA+) and others as the discount rate at December 31, 2022, to discount the defined benefit obligation to the present value, and the same discount rate was applied as the expected return rate when calculating interest income on plan assets.

Employee turnover and mortality assumptions used for actuarial valuation are based on the economic conditions and statistical data of each country where entities within the Group are located.

(3) The amounts recognized in the consolidated statements of financial position related to defined benefit plans as of December 31, 2022 and December 31, 2021 are as follows.

Description	Dece	December 31, 2022		ember 31, 2021			
		(In millions of Korean V					
Present value of defined benefit obligations	₩	6,033,698	₩	6,580,593			
Fair value of plan assets		(6,809,339)		(6,721,149)			
	₩	(775,641)	₩	(140,556)			
Net defined benefit liabilities		61,861	<u> </u>	79,165			
Net defined benefit assets		(837,502)		(219,721)			

# (4) Changes in net defined benefit assets and liabilities for the year ended December 31, 2022 are as follows.

Description		Present value of defined benefit obligations		Fair value of plan assets		efined benefit iabilities
		(In	million	s of Korean Won)		
Beginning of the year	₩	6,580,593	₩	(6,721,149)	₩	(140,556)
Current service cost		575,608		-		575,608
Interest expenses (income)		173,934		(185,313)		(11,379)
Past service cost		(33)		=		(33)
		7,330,102		(6,906,462)		423,640
Remeasurements:						
Return on plan assets		-		168,474		168,474
Actuarial gains and losses arising						
from changes in demographic						
assumptions		255,197		-		255,197
Actuarial gains and losses arising						
from changes in financial						
assumptions		(1,002,183)		=		(1,002,183)
Actuarial gains and losses arising						
from experience adjustments and						
others		35,038		<u>-</u>		35,038
		(711,948)		168,474		(543,474)
Contributions		-		(584,701)		(584,701)
Benefits paid		(583,748)		483,747		(100,001)
Transfers in (out)		1,946		(1,454)		492
Effect of foreign exchange						
differences and others		(2,654)		31,057		28,403
End of the year	₩	6,033,698	₩	(6,809,339)	₩	(775,641)

Changes in net defined benefit assets and liabilities for the year ended December 31, 2021 are as follows.

Description	Present value of defined Fair value of Description benefit obligations plan assets			efined benefit abilities		
		(In	millions	of Korean Won)		_
Beginning of the year	₩	6,490,583	₩	(6,253,299)	₩	237,284
Current service cost		598,231		-		598,231
Interest expenses (income)		140,222		(139,588)		634
Past service cost		221		=		221
		7,229,257		(6,392,887)		836,370
Remeasurements:						
Return on plan assets		-		(1,247)		(1,247)
Actuarial gains and losses arising						
from changes in demographic						
assumptions		2,573		-		2,573
Actuarial gains and losses arising						
from changes in financial						
assumptions		(259,343)		-		(259,343)
Actuarial gains and losses arising						
from experience adjustments and		1==10				1==10
others		17,719		<u>-</u>		17,719
		(239,051)		(1,247)		(240,298)
Contributions		-		(689,687)		(689,687)
Benefits paid		(447,857)		367,927		(79,930)
Transfers in (out)		2,721		(1,605)		1,116
Effect of foreign exchange						
differences and others		35,523		(3,650)		31,873
End of the year	₩	6,580,593	₩	(6,721,149)	₩	(140,556)

(5) The sensitivity analysis based on reasonably possible changes of the significant assumptions as of December 31, 2022 and December 31, 2021, while all the other assumptions are retained, are as follows.

	Effect on the net defined benefit liabilities								
	December 31, 2022					December 31, 2021			
Description	Inc	crease by 1%	Decr	ease by 1%	Inc	rease by 1%	Decrease by 1%		
	(In millions of Korean Won) (In millions of Korean					ın Won)			
Discount rate	₩	(367,700)	₩	419,353	₩	(486,472)	₩	542,497	
Rate of expected future salary increase		400,804		(360,074)		492,651		(457,048)	

(6) The fair value of the plan assets as of December 31, 2022 and December 31, 2021 is as follows.

Description	Dece	ember 31, 2022	December 31, 2021					
	(In millions of Korean Won)							
Insurance instruments	₩	6,806,690	₩	6,717,877				
Others		2,649		3,272				
	₩	6,809,339	₩	6,721,149				

<sup>(7)</sup> The Group expects to pay contribution of approximately  $\mbox{$\mathbb{W}$}$  546,548 million to the plan in 2023 and the weighted average duration of the defined benefit obligation as of December 31, 2022 is 7.8 years.

# **36.** CASH GENERATED FROM OPERATIONS:

(1) Cash generated from operations for the years ended December 31, 2022 and 2021 are as follows.

Description		2022	2021		
		(In millions of I	Korean	Won)	
Profit for the year	₩	7,983,614	₩	5,693,077	
Adjustments:					
Retirement benefit costs		568,950		602,406	
Depreciation		3,180,687		2,937,914	
Amortization of intangible assets		1,866,935		1,617,823	
Provision for warranties		4,007,458		2,678,950	
Income tax expense		2,964,329		2,266,485	
Loss on foreign currency translation, net		249,758		30,813	
Loss on disposals of PP&E, net		127,690		33,921	
Interest income, net		(103,131)		(44,071)	
Gain on share of earnings of equity-accounted investees, net		(1,635,777)		(1,278,591)	
Cost of sales from financial services, net		7,439,938		6,229,723	
Impairment loss on investments in associates		143,186		13,332	
Others		1,445,915		688,884	
		20,255,938		15,777,589	
Changes in operating assets and liabilities:		_		_	
Decrease (increase) in trade notes and accounts receivable		(1,325,728)		280,750	
Increase in other receivables		622,992		(161,098)	
Decrease (increase) in other financial assets		1,423,023		237,835	
Decrease (increase) in inventories		(2,721,100)		177,234	
Increase in other assets		(83,879)		(381,923)	
Increase in trade notes and accounts payable		1,146,082		555,739	
Increase in other payables		2,186,971		13,702	
Increase in other liabilities		2,086,192		1,057,959	
Decrease in other financial liabilities		(1,597)		(11,583)	
Decrease in net defined benefit liabilities		(573,780)		(678,416)	
Payment of severance benefits		(100,001)		(79,930)	
Decrease in provisions		(3,796,018)		(3,261,759)	
Changes in financial services receivables		(8,457,539)		(9,551,305)	
Investment in operating leases		(4,689,798)		(7,649,654)	
Others		361,523		(835,327)	
		(13,922,657)		(20,287,776)	
Cash generated from operations	₩	14,316,895	₩	1,182,890	

(2) Major non-cash transactions not stated on the consolidated statements of cash flows from investing and financing activities for the years ended December 31, 2022 and 2021 are as follows.

Description		2022	2021		
		(In millions o	n Won)		
Reclassification of the current portion of long-term debt					
and debentures	₩	24,891,478	₩	21,149,425	
Reclassification of construction-in-progress to PP&E		3,525,985		3,843,940	
Reclassification of construction-in-progress to intangible assets		186,210		123,107	

#### (3) Changes in liabilities arising from financial activities for the year ended December 31, 2022 are as follows.

		-	Changes from non-cash transactions						
Description	Beginning of the year	Cash flows from financing activities	Reclassified to current portion	Effect of exchange rate changes	Present value discounts	Others(*)	End of the year		
			(In mi	llions of Korean W	on)				
Short-term									
borrowings									
(including									
current	W 22 ((( 720	W (22 005 047)	W 24 001 470	W 604 515	W 56 720	w (27,090	W 26 040 611		
portion)	₩ 33,666,738	₩ (22,985,947)	₩ 24,891,478	₩ 684,515	₩ 56,738	₩ 627,089	₩ 36,940,611		
Long-term	10 667 721	6 025 720	(5 /22 /72)	115,999	7.656	497	12,285,149		
debts	10,667,731	6,925,739	(5,432,473)	- )	7,656				
Debentures	63,458,809	16,381,780	(19,459,005)	2,524,323	18,593	35,560	62,960,060		

<sup>(\*)</sup> Others include transfers from or to other accounts and others.

Changes in liabilities arising from financial activities for the year ended December 31, 2021 are as follows.

		Changes from non-cash transactions							
Description	Beginning of the year	Cash flows from financing activities	Reclassified to current portion	Effect of exchange rate changes	Present value discounts	Others(*)	End of the year		
			(In millio	ons of Korean Wor	.)				
Short-term borrowings (including current									
portion)	₩ 29,884,675	₩ (19,812,277)	₩ 21,149,425	₩ 1,649,56	2 ₩ 18,765	₩ 776,588	₩ 33,666,738		
Long-term debts Debentures	12,726,724 48,795,361	3,853,657 26,862,597	(6,285,807) (14,863,618)	338,63 2,536,70		23,695 104,664			

<sup>(\*)</sup> Others include transfers from or to other accounts and others.

# 37. RISK MANAGEMENT:

### (1) Capital risk management

The Group manages its capital to maintain an optimal capital structure for maximizing profit of its shareholder and reducing the cost of capital. Debt to equity ratio calculated as total liabilities divided by total equity is used as an index to manage the Group's capital. The overall capital risk management policy is consistent with that of the prior period. Debt to equity ratios as of December 31, 2022 and December 31, 2021 are as follows.

Description	Dece	ember 31, 2022	December 31, 2021		
		(In millions of	f Korean Won	1)	
Total liabilities	₩	164,845,917	₩	151,330,626	
Total equity		90,896,545		82,615,789	
Debt-to-equity ratio		181.4%		183.2%	

#### (2) Financial risk management

The Group is exposed to various financial risks such as market risk (foreign exchange risk, interest rate risk and price risk), credit risk and liquidity risk related to its financial instruments. The purpose of risk management of the Group is to identify potential risks related to financial performance and reduce, eliminate and evade those risks to an acceptable level of risks to the Group. Overall, the Group's financial risk management policy is consistent with the prior period policy.

#### 1) Market risk

The Group is mainly exposed to financial risks arising from changes in foreign exchange rates and interest rates. Accordingly, the Group uses financial derivative contracts to hedge and to manage its interest rate risk and foreign currency risk.

#### a) Foreign exchange risk management

The Group is exposed to various foreign exchange risks by making transactions in foreign currencies. The Group is mainly exposed to foreign exchange risk in USD, EUR, JPY and others.

The Group manages foreign exchange risk by matching the inflow and the outflow of foreign currencies according to each currency and maturity, and by adjusting the foreign currency settlement date based on its exchange rate forecast. The Group uses foreign exchange derivatives, such as currency forward, currency swap, and currency option; as hedging instruments. However, speculative foreign exchange trade on derivative financial instruments is prohibited.

Sensitivity analysis for a 5% change in exchange rate of the functional currency against each foreign currency on profit before income tax as of December 31, 2022 is as follows.

	Foreign Exchange Rate Sensitivity							
Foreign Currency	In	Increase by 5% Dec						
		(In millions of Korean Won)						
USD	₩	111,585 ₩	(111,585)					
EUR		20,435	(20,435)					
JPY		(3,585)	3,585					

#### b) Interest rate risk management

The Group has borrowings with fixed or variable interest rates. Also, the Group is exposed to interest rate risk arising from financial instruments with variable interest rates. To manage the interest rate risk, the Group maintains an appropriate balance between borrowings with fixed and variable interest rates for short-term borrowings and has a policy to borrow funds with fixed interest rates to avoid the future cash flow fluctuation risk for long-term debt if possible. The Group manages its interest rate risk through regular assessments of the change in market conditions and the adjustments in nature of its interest rates.

Sensitivity analysis for a 1% change in interest rates on profit before income tax as of December 31, 2022 is as follows.

	Interest Rate Sensitivity							
Accounts		Increase by 1%		%				
	(In millions of Korean Won)							
Cash and cash equivalents	₩	35,897	₩	(35,897)				
Financial assets measured at FVPL		1,644		(1,644)				
Short-term and long-term financial								
instruments		15,584		(15,584)				
Borrowings and debentures		(99,610)		99,610				

The Company's subsidiaries, HYUNDAI CARD CO., LTD. and HYUNDAI CAPITAL SERVICES, INC., that are operating financial business, are managing interest rate risk by utilizing value at risk (VaR). VaR is defined as a threshold value which is a statistical estimate of the maximum potential loss based on normal distribution. As of December 31, 2022 and December 31, 2021, the amounts of interest rate risk measured at VaR are \W135,241 million and \W182,864 million, respectively.

#### c) Price risk

The Group is exposed to market price fluctuation risk arising from equity instruments. As of December 31, 2022, the amounts of financial assets measured at FVPL and financial assets measured at FVOCI are \$57,556 million and \$2,340,388 million, respectively.

#### 2) Credit risk

The Group is exposed to credit risk when a counterparty defaults on its contractual obligation resulting in a financial loss for the Group. The Group operates a policy to transact with counterparties who only meet a certain level of credit rating which was evaluated based on the counterparty's financial conditions, default history, and other factors. The credit risk in the liquid funds and derivative financial instruments is limited as the Group transacts only with financial institutions with high credit-ratings assigned by international credit-rating agencies. Except for the guarantee of indebtedness discussed in Note 39, the book value of financial assets in the consolidated financial statements represents the maximum amounts of exposure to credit risk. In addition, the Company's subsidiaries, HYUNDAI CARD CO., LTD. and HYUNDAI CAPITAL SERVICES, INC., that are operating financial business, assesses their credit stability according to their internal credit ratings and manage credit risk concentrations by debtor. As of December 31, 2022, credit risk concentrations are 87% for households and 13% for companies.

# 3) Liquidity risk

The Group manages liquidity risk based on maturity profile of its funding. The Group analyses and reviews actual cash outflow and its budget to match the maturity of its financial liabilities to that of its financial assets.

The Group retains an appropriate level of deposit to cope with uncertainty caused by the inherent nature of the industry which is sensitive to economic fluctuation and to invest in R&D constantly.

In addition, the Group has agreements with financial institutions related to trade financing and overdraft to mitigate any significant unexpected market deterioration. Also, the Group continues to strengthen its credit rates to secure a stable financing capability.

The Group's maturity analysis of its non-derivative liabilities according to their remaining contract period before expiration as of December 31, 2022 is as follows.

		Remaining contract period								
Description		Not later than one year		ter than one year and t later than five years		Later than five years		Total		
				_						
Non-interest- bearing liabilities	₩	20,918,523	₩	57,047	₩	- F	₩	20,975,570		
Interest-bearing liabilities		40,215,791		72,730,956		7,184,077		120,130,824		
Financial guarantee		270,448		62,968		88,284		421,700		

The maturity analysis is based on the non-discounted cash flows and the earliest maturity date at which payments, i.e. both principal and interest, should be made.

#### (3) Derivative instruments

The Group enters into derivative instrument contracts such as currency forwards, currency options, currency swaps and interest swaps to hedge its exposure to changes in foreign exchange rate or interest rate.

As of December 31, 2022 and December 31, 2021, the Group recognized an accumulative net profit of W183,776 million and net profit of W13,980 million, respectively, in accumulated other comprehensive profit or loss, for effective cash flow hedging instruments.

The longest period in which the forecasted transactions are expected to occur is within 111 months as of December 31, 2022.

For the years ended December 31, 2022 and 2021, the Group recognized a net profit of \( \mathbb{W}391,801 \) million and net loss of \( \mathbb{W}675,508 \) million in profit or loss (before tax), respectively, which resulted from the ineffective portion of its cash flow hedging instruments and changes in the valuation of its other non-hedging derivative instruments and others.

In addition, the Company's subsidiaries, HYUNDAI CARD CO., LTD. and HYUNDAI CAPITAL SERVICES, INC., that are engaged in financial services business, use interest rate swaps and currency swaps to hedge the risks of future cash flows, which related to borrowings, debentures and others, due to market interest rate fluctuations and exchange rate fluctuations. As of December 31, 2022, the average hedge ratio is 100%.

# 38. <u>RELATED-PARTY AND OTHER TRANSACTIONS</u>:

The transactions and balances of receivables and payables within the Group are wholly eliminated in the preparation of consolidated financial statements of the Group.

(1) For the year ended December 31, 2022, significant transactions arising from operations between the Group and related parties or affiliates by the Monopoly Regulation and Fair Trade Act of the Republic of Korea ("the are as follows.

		Sales/p	roceed	S	Purchases/expenses			
	Description	Sales		O	thers	Purchases		Others
				(In	millions o	f Korean Won)		
Entity with	Hyundai MOBIS Co., Ltd.	₩	617,886	₩	15,569	₩ 12,246,389	₩	74,457
significant	Mobis Alabama, LLC		175,677		152	1,952,641		6,392
influence over	Mobis Automotive Czech s.r.o.		88		745	2,441,059		24,371
the Company	Mobis India, Ltd.		15,783		3,237	1,310,317		3,340
and its	Mobis Parts America, LLC		173,649		4,140	1,528,014		825
subsidiaries	Mobis Module CIS, LLC.		67		376	88,339		2,791
	Mobis Parts Europe N.V.		18,037		1,993	622,583		1,064
	Others		68,863		1,480	1,499,679		9,582
Joint ventures	Kia Corporation		1,344,334		781,710	576,677		749,322
and associates	Kia Russia & CIS, LLC		236,563		7	29		-
	Kia Slovakia s.r.o		106,675		338	706,944		1,751
	Kia Georgia, Inc.		850,880		1,017	42		-
	BHMC		243,336		=	28,184		-
	HMGC		27,747		1,773	44,864		52,023
	Hyundai WIA Corporation		119,339		913	1,039,973		10,837
	Others		838,127		65,143	5,922,155		2,079,207
Other related par	ties		21,567		3,755	2,531		7
Affiliates by the	Act		838,319		121,880	10,962,515		1,152,633

For the year ended December 31, 2021, significant transactions arising from operations between the Group and related parties or affiliates by the Act are as follows.

			Sales/p	eds	Purchases/expenses				
	Description		Sales	Others		Purchases		Others	
				(I:	n millions o	f Ko	rean Won)		
Entity with	Hyundai MOBIS Co., Ltd.	₩	546,326	₩	141,828	₩	9,189,407	₩	80,346
significant	Mobis Alabama, LLC		200,423		58		1,296,680		47,303
influence over	Mobis Automotive Czech s.r.o.		11		501		1,948,940		12,268
the Company	Mobis India, Ltd.		12,150		2,664		1,060,774		2,263
and its	Mobis Parts America, LLC		111,115		3,564		1,067,076		1,140
subsidiaries	Mobis Module CIS, LLC.		31		315		419,772		31
	Mobis Parts Europe N.V.		16,986		1,450		473,989		746
	Others		62,109		1,788		1,120,565		8,564
Joint ventures	Kia Corporation		1,167,895		726,215		732,297		786,682
and associates	Kia Russia & CIS, LLC		994,790		112		-		-
	Kia Slovakia s.r.o		97,731		281		671,653		4
	Kia Georgia, Inc.		617,122		1,518		292		-
	BHMC		321,700		-		115,309		18,080
	HMGC		37,287		1,299		103,139		63,877
	Hyundai WIA Corporation		135,431		1,605		1,280,719		14,515
	Others		728,094		64,383		4,505,972		1,816,502
Other related par	ties		16,780		14,627		3,927		6
Affiliates by the	Act		769,822		118,065		8,566,617		922,130

(2) As of December 31, 2022, significant balances related to the transactions between the Group and related parties or affiliates by the Act are as follows.

			Receivab	2)	Payables				
		Tra	de notes	Ot	her	Tr	ade notes		Other
		and	accounts	receiv	ables	and	d accounts	1	payables
	Description	rec	ceivable	and c	thers		payable	a	nd others
			<u>.</u>	(In m	illions of	f Ko	rean Won)		
Entity with	Hyundai MOBIS Co., Ltd.	₩	112,072	₩	186,427	₩	2,631,460	₩	453,605
significant	Mobis Alabama, LLC		22,829		-		148,988		411
influence over	Mobis Automotive Czech s.r.o.		_		9,924		240,666		-
the Company	Mobis India, Ltd.		-		1,462		176,609		22
and its	Mobis Parts America, LLC		19,635		95		113,577		-
subsidiaries	Mobis Module CIS, LLC		-		71		804		-
	Mobis Parts Europe N.V.		359		1,328		49,254		-
	Others		21,772		949		115,791		6,847
Joint ventures	Kia Corporation		483,663	3	383,401		103,109		111,663
and associates	Kia Russia & CIS, LLC		4		24				-
	Kia Slovakia s.r.o.		6,018		163		55,100		319
	Kia Georgia, Inc.		59,925		33,682				30,404
	Kia America, Inc.		-		10,568				19,943
	BHMC		272,134		14,411		-		57
	HMGC		7,738		23,734		5,133		23,306
	Hyundai WIA Corporation		33,157		7,449		171,098		28,850
	Others		169,169		125,220		699,974		1,058,827
Other related par	Other related parties		1,742		44		13		344
Affiliates by the Act			181,415		68,799		1,242,171		423,944

<sup>(\*1)</sup> The Group has recognized the loss allowance for the related parties' receivables in the amount of \$958 million as of December 31, 2022 and the impairment loss is recognized in the amount of \$749 million for the year ended December 31, 2022.

<sup>(\*2)</sup> As of December 31, 2022, outstanding payment of \$\psi 23,592\$ million of corporate purchase card agreement provided by HYUNDAI CARD CO., LTD. is included. For the year ended December 31, 2022, amount used and repayment of agreement are \$\psi 426,510\$ million and \$\psi 425,013\$ million, respectively.

As of December 31, 2021, significant balances related to the transactions between the Group and related parties or affiliates by the Act are as follows.

			Receivab	,2)	Payables				
	Description	and a	de notes accounts eivable	rece	Other eivables l others	an	rade notes d accounts payable		Other bayables and others
	•			(In	millions o	f Ko	rean Won)		
Entity with	Hyundai MOBIS Co., Ltd.	₩	92,116	₩	301,436	₩	1,687,603	₩	466,862
significant	Mobis Alabama, LLC		14,344		_		108,355		-
influence over	Mobis Automotive Czech s.r.o.		-		901		194,217		-
the Company	Mobis India, Ltd.		1,370		18		123,770		5
and its	Mobis Parts America, LLC		31,309		62		101,750		-
subsidiaries	Mobis Module CIS, LLC		15		37		50,666		-
	Mobis Parts Europe N.V.		550		118		47,095		18
	Others		11,339		491		101,671		6,947
Joint ventures	Kia Corporation		328,668		335,571		84,505		121,814
and associates	Kia Russia & CIS, LLC		134,733		48		-		-
	Kia Slovakia s.r.o.		6,832		279		46,186		205
	Kia Georgia, Inc.		91,109		64,378		11,120		96,639
	Kia America, Inc.		-		149,910		9		-
	BHMC		199,426		13,626		12,344		414
	HMGC		6,019		21,752		4,479		37,996
	Hyundai WIA Corporation		31,147		920		185,022		28,048
	Others		209,556		69,666		679,046		920,138
Other related par	ties		80		710		52		
Affiliates by the	Act		154,455		61,484		905,856		351,422

<sup>(\*1)</sup> The Group has recognized the loss allowance for the related parties' receivables in the amount of W209 million as of December 31, 2021 and the reversal of impairment loss is recognized in the amount of W56 million for the year ended December 31, 2021.

(3) Significant fund transactions and equity contribution transactions for the year ended December 31, 2022, between the Group and related parties are as follows.

		Loans			Borrov	vings		I	Equity
Description	Lei	nding	Collection	Bor	rowing	Repayment		contribution	
	(Ir	ı thousan	ds of USD Do	llar and	Chinese Y	uan,	In millions	of Kor	ean won)
Joint ventures and associates	¥	15,000	-	\$	612,000	\$	600,000	₩	2,002,648
				₩	520	₩	4,252		

Significant fund transactions and equity contribution transactions for the year ended December 31, 2021, between the Group and related parties are as follows.

	Lo	ans	Borrov	wings	Equity
Description	Lending	Collection	Borrowing	Repayment	contribution
		(Iı	n millions of Koro		
Joint ventures and associates	-	-		₩ 7,600	₩ 313,720

For the years ended December 31, 2022 and 2021, the Group received dividends of \W503,634 million and \W209,957 million from related parties and affiliates by the Act, respectively and paid dividends of \W349,958 million and \W322,421 million to related parties, respectively. During 2022, the Group traded in other financial assets and others of \W1,710,000 million with HYUNDAI MOTOR SECURITIES Co., Ltd., an associate of the Group. The Group has other financial assets of \W315,000 million in the consolidated statement of financial position as of December 31, 2022.

<sup>(\*2)</sup> As of December 31, 2021, outstanding payment of \( \partial \)2,096 million of corporate purchase card agreement provided by HYUNDAI CARD CO., LTD. is included. For the year ended December 31, 2021, amount used and repayment of agreement are \( \partial \)383,299 million and \( \partial \)406,133 million, respectively.

For the year ended December 31, 2021, HYUNDAI MOTOR SECURITIES CO., Ltd., an associate of the Group, acquired bonds issued by the consolidated entities, HYUNDAI CAPITAL SERVICES, INC. and HYUNDAI CARD CO., LTD. in amount of \$10,000 million and \$20,000 million respectively, and there are no acquired bonds for the year ended December 31, 2022.

(4) Compensation of registered and unregistered directors, who are considered to be the key management personnel for the years ended December 31, 2022 and 2021 are as follows.

Description		2022		2021				
	(In millions of Korean Won)							
Short-term employee salaries	₩	348,368	₩	296,733				
Retirement benefit costs		53,146		48,906				
Other long-term benefits		1,289		1,209				
	₩	402,803	₩	346,848				

(5) For the year ended December 31, 2022, the Group offer payment guarantee to related parties and affiliates by the Act.

#### 39. COMMITMENTS AND CONTINGENCIES:

(1) As of December 31, 2022, the debt guarantees provided by the Group, excluding the ones provided to the Company's subsidiaries are as follows.

Description		Domestic	Overseas (*)
		(In millions of I	Korean Won)
To associates	₩	28,910	₩ 211,49
To others		3,558	209,22
	₩	32,468	₩ 420,71

- (\*) The guarantee amounts in foreign currencies are translated into Korean Won using the Base Rate announced by Seoul Money Brokerage Services, Ltd. as of December 31, 2022.
- (2) As of December 31, 2022, the Group is involved in domestic and foreign lawsuits as a defendant. In addition, the Group is involved in lawsuits for product liabilities and others. The Group obtains insurance for potential losses which may result from product liabilities and other lawsuits. In addition, as of December 31, 2022, the Group is under investigation by related authorities in relation to the theta 2 engine recall and others, and its results and impacts are unpredictable. The Group is unable to estimate the outcome of the lawsuits and the amount and timing of outflows of resources are uncertain. The Group does not expect the impact on the consolidated financial statements to be significant.
- (3) As of December 31, 2022, a substantial portion of the Group's PP&E is pledged as collateral for various loans and leasehold deposits up to \(\pi\)782,803 million. In addition, the Group pledged certain bank deposits, checks and promissory notes, including 213,466 shares of Kia Corporation, as collateral to financial institutions and others. Certain receivables held by the Company's foreign subsidiaries, such as financial services receivables are pledged as collateral for their borrowings.
- (4) As of December 31, 2022, the Group has overdrafts, general loans, and trade-financing agreements with numerous financial institutions including Kookmin Bank, with a combined limit of up to USD 30,000 million, and ₩5,985,200 million.
- (5) As of December 31, 2022, HYUNDAI CAPITAL SERVICES, INC. and HYUNDAI CARD CO., LTD. have entered into agreements for certain borrowings including trigger clauses for the purpose of credit enhancement. If the credit rating of HYUNDAI CAPITAL SERVICES, INC. and HYUNDAI CARD CO., LTD. falls below a certain level, this may result in early repayment of the borrowings or termination of the contracts.
- (6) As of December 31, 2022, the Company has a shareholder agreement with investors of third parties regarding shares of HYUNDAI CARD CO., LTD. and Hyundai Commercial Inc. This includes the call options that allow the Company to buy shares from the investors and the put options that allow the investors to dispose of the shares to the Company.

- (7) In December 2019, the Company entered into an agreement to invest \( \psi 1,408,220 \) million in the construction of new Global Business Centre (GBC). As of December 31, 2022, the Company has recognized relevant liability in the amount of \( \psi 921,278 \) million in accordance with the agreement with the Seoul government to implement public contributions relating to the new construction project.
- (8) Financial instruments with restricted use for the years ended December 31, 2022 and 2021 are as follows.

Description	De	cember 31, 2022	Decen	mber 31, 2021
	_	(In millions of I	Korean Won)	
Short-term and long-term financial instruments Cash and cash equivalents Other financial assets	₩	1,464,888 631,954 2	₩	1,694,904 225,731 2
	₩	2,096,844	₩	1,920,637

# 40. <u>SEGMENT INFORMATION</u>:

- (1) The Group operating segments include vehicle segment, finance segment and others segment. The vehicle segment is engaged in the manufacturing and sale of motor vehicles. The finance segment operates vehicle financing, credit card processing and other financing activities. Others segment includes the R&D, train manufacturing and other activities.
- (2) Sales and operating profit by operating segments for the years ended December 31, 2022 and 2021 are as follows.

		For the year ended December 31, 2022										
	V	Vehicle (*1)		Finance		Others		Total				
				(In millions of	Korea	an Won)						
Net sales (*2)	₩	113,718,058	₩	20,037,912	₩	8,771,565	₩	142,527,535				
Operating profit		7,393,480		1,844,571		581,718		9,819,769				
Inter-company sales		(67,688,701)		(268,245)		(1,666,746)		(69,623,692)				

- (\*1) Operating profit of the vehicle segment include internal transaction adjustments.
- (\*2) Net sales represent sales from external customers.

		For the year ended December 31, 2021										
	V	ehicle (*1)		Finance		Others		Total				
				(In millions of	Korea	ın Won)						
Net sales (*2)	₩	94,143,019	₩	16,782,412	₩	6,685,195	₩	117,610,626				
Operating profit		4,155,765		2,195,377		327,807		6,678,949				
Inter-company sales		(52,033,375)		(318,479)		(1,352,273)		(53,704,127)				

- (\*1) Operating profit of the vehicle segment include internal transaction adjustments.
- (\*2) Net sales represent sales from external customers.
- (3) Assets and liabilities by operating segments as of December 31, 2022 are as follows.

		December 31, 2022											
		Consolidation											
		Vehicle		Finance		Others	adjustments		Total				
				(In mill	ions	of Korean V	Won)						
Total assets	₩	133,885,205	₩	135,124,336	₩	9,793,550	₩ (23,060,629)	₩	255,742,462				
Total liabilities		58,838,578		117,649,362		5,910,506	(17,552,529)		164,845,917				
Borrowings and debentures		9,983,190		107,328,133		2,225,394	(7,350,897)		112,185,820				

Assets and liabilities by operating segments as of December 31, 2021 are as follows.

December 31, 2021

					Consolidation		
		Vehicle	Finance	Others	adjustments	Total	
			(In mi	llions of Korean	Won)		
Total assets	₩	121,826,011	₩ 120,951,619	₩ 8,836,191	₩ (17,667,406)	₩ 233,946,4	115
Total liabilities		54,135,289	104,597,059	5,199,761	(12,601,483)	151,330,6	526
Borrowings and debentures		12,568,592	96,734,509	2,569,958	(4,079,781)	107,793,2	278

(4) Sales by region based on where the Group's entities are located for the years ended December 31, 2022 and 2021 are as follows.

					For	the year ended	Dece	mber 31, 2022	!			
		Korea		North America		Asia		Europe		Others		Total
					(	(In millions o	f Kor	rean Won)				
Net sales	₩	44,725,966	₩	55,941,024	₩	15,594,336	₩	22,117,832	₩	4,148,377	₩	142,527,535
					For	the year ended	Dece	mber 31, 2021				
				North		-						
		Korea		America		Asia		Europe		Others		Total
					(	In millions of	f Kor	rean Won)				
Net sales	₩	41,332,243	₩	40,750,484	₩	11,390,768	₩	21,508,735	₩	2,628,396	₩	117,610,626

(5) Non-current assets by region where the Group's entities are located in as of December 31, 2022 and December 31, 2021 are as follows.

Description	I	December 31, 2022	De	ecember 31, 2021
	(In millions of Korean Won)		on)	
Korea	₩	33,935,698	₩	33,323,986
North America		3,211,607		2,967,662
Asia		2,835,528		2,781,728
Europe		2,012,856		2,254,395
Others		623,992		520,729
		42,619,681		41,848,500
Consolidation adjustments		(219,664)		(301,775)
Total (*)	₩	42,400,017	₩	41,546,725

<sup>(\*)</sup> Total amount is the same as summation of PP&E, intangible assets and investment properties.

<sup>(6)</sup> There is no single external customer who represents 10% or more of the Group's revenue for the years ended December 31, 2022 and 2021.

#### 41. **CONSTRUCTION CONTRACTS**:

(1) Cost, income and loss and claimed construction from construction in progress as of December 31, 2022 and December 31, 2021 are as follows.

		December 31,		December 31,
Description	<u> </u>	2022		2021
	(In millions of Korean Won)			
Accumulated cost	₩	14,866,771	₩	12,658,465
Accumulated income		336,083		146,975
Accumulated construction in process		15,202,854		12,805,440
Progress billing		15,006,020		12,286,456
Due from customers		1,413,886		1,421,108
Due to customers		1,217,052		902,124
Reserve (*)		77,915		79,161

(\*) Reserve is recognized as long-term trade notes and accounts receivable in the consolidated financial statements.

(2) Effects on profit or loss of current and future periods, due from customers related to changes in accounting estimates of total contract revenue and total contract costs of ongoing contracts of Hyundai Rotem, a subsidiary of the Company, as of December 31, 2022 are as follows.

Description	December 31, 2022	
	(In millions	of Korean Won)
Changes in accounting estimates of total contract revenue	₩	493,798
Changes in accounting estimates of total contract costs		513,064
Effects on profit or loss of current period		(14,707)
Effects on profit or loss of future periods		(4,559)
Changes in due from customers		(7,202)
Provision for construction loss		38,417

Effects on profit or loss of current and future periods were calculated with estimated total contract costs and estimated total contract revenue based on factors that are considered to be relevant from commencement of the contract to December 31, 2022. Total contract revenue and costs may change in future periods.

(3) There is no contract as of December 31, 2022, in which contract revenue is recognized using the percentage of completion method based on the input method, that accounted for more than 5% of the Group's revenue in the prior period.

# 42. **BUSINESS COMBINATIONS**:

The Group acquired 46.97% of shares in 42dot, Inc. during the year ended December 31, 2022.

The accounting for the business combination at the acquisition date is as follows.

Description	Amount	
	(In millions of Korean Won)	
Total considerations transferred	₩ 180,38	80
Non-controlling interests	(68,03	33)
Assets and liabilities acquired:		
Current assets	41,40	68
Non-current assets	145,13	59
Current liabilities	5,18	80
Non-current liabilities	384,64	48
Fair value of identifiable net assets	(203,20	)1)
Goodwill	315,54	48

The amounts of sales and net loss of the acquiree since the acquisition date included in the consolidated statement of income for the year ended December 31, 2022 are \(\partial 1,226\) million and \(\partial 15,855\) million, respectively.

# 43. <u>SUBSEQUENT EVENT</u>:

The Group completed stock retirement of its treasury shares on February 3, 2023 as follows.

Description	Total number of shares	December 31, 2022	
	(In millions of Korean Won)		
Common stock	2,136,681	₩ 273,893	
Preferred stock	632,707	41,518	