Goldman Sachs Research

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KOREA WEEKLY KICKSTART

KOSPI declined by 7% amid VKOSPI rising to the highest level despite strong earnings release by Micron Technology

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- KOSPI declined by 7% amid VKOSPI rising to the highest level despite strong earnings release by Micron Technology. The Retail, Utilities and Telecom sectors outperformed this week, while Shipbuilding, Auto and Machinery sectors underperformed the most (Exhibit 10).
- Foreign investors turned to sell the KOSPI market, driven by outflows for KOSPI Tech (Exhibit 37).
- KOSPI 12m-forward EPS was revised up by +2.1%. The Tech sector saw the strongest upward earnings revisions, while the Machinery sector was revised down the most this week (Exhibit 24).
- The KRW weakened 0.5% vs. USD this week. It also weakened by 0.2% vs. JPY but strengthened 0.1% vs. EUR.
- The latest Korea Equity Risk Barometer (GSSRKERB Index) is at -0.3, staying in risk-neutral territory.

Charts of the Week: Is Retail Investor Activity Overheating?; Earnings Revisions Pulse Check Post Strong Earnings Beat By MU

- **Is Retail Investor Activity Overheating?** Amid strong retail inflows year-to-date and margin loan balances rising to record levels, investors have been questioning whether retail activity is overheating. However, despite robust YTD inflows, retail investors' ownership of the Korean equity market remains only marginally above its historical average. This is partly because foreign ownership has stayed elevated despite significant foreign outflows. In addition, investor deposit balances have grown faster than margin loan balances, causing the margin-loan-to-deposit ratio to decline even as margin loans appear elevated in nominal terms. From a trading activity perspective, retail investors' turnover ratio has fallen to 37%, while turnover ratios for domestic institutions and foreign investors have increased (Exhibit 4). Meanwhile, the growing size of leveraged ETFs has amplified gamma effects, even though fund inflows have contributed less to AUM growth. Against this backdrop of heightened gamma activity, the Korea Volatility Index (VKOSPI) has risen above its peak level during the Global Financial Crisis.
- **Earnings Revisions Pulse Check Post Earnings Beat By MU:** Micron (covered by our US team) reported strong 3QFY26 revenues along with better guidance for the next quarter, materially above the Visible Alpha Consensus Data estimate. Additionally, Micron stated

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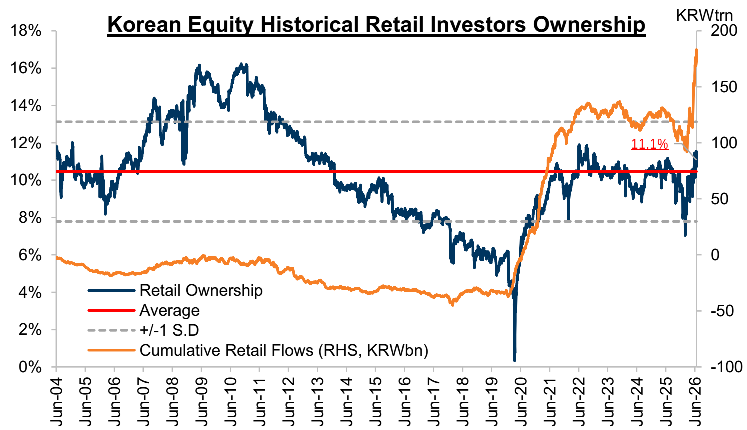
that AI is driving robust growth in DCs, with Memory demand significantly above supply. MU expects this supply-demand imbalance to persist beyond CY27, with supply expected to improve gradually in 2028. In this vein, the company has now signed 16 take-or-pay strategic customer agreements (SCAs) across DC, consumer and automotive end markets. Our US semis team highlighted that many of these agreements contain both floor and ceiling prices, and the cumulative amount of committed revenue from these agreements represents c.$100bn over five years at floor prices. As the third largest memory supplier in the world, MU's earnings are correlated with KOSPI Semi Sector earnings, and were revised up sharply following its strong earnings release (Exhibit 7). Also, Korea's per-workday exports in the first 20 days of June rose 8.7% mom sa, accelerating from 3.1% the prior month, supporting earnings upgrades. Our earnings revision leading indicator (ERLI) points to continued upside in consensus earnings for Korea.

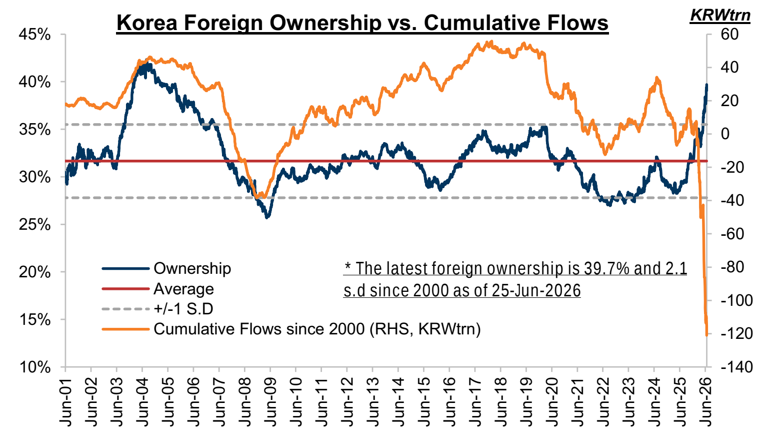
Charts of the week: Is Retail Investor Activity Overheating?

Exhibit 1: Retail investors ownership in Korean equity market remained marginally above average despite strong inflows YTD



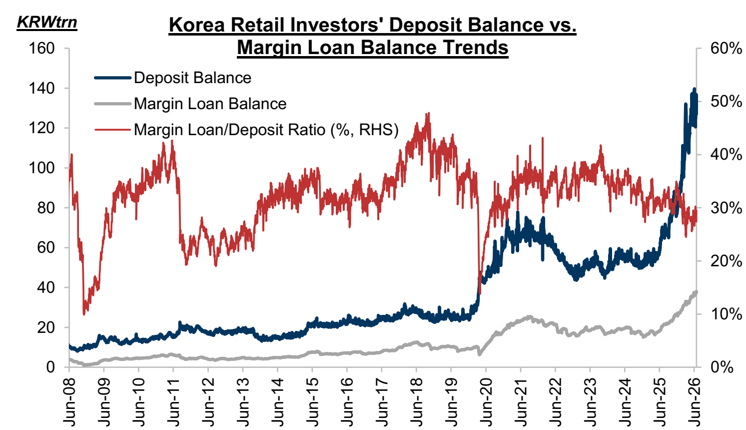
Source: Quantiwise, Goldman Sachs Global Investment Research

Exhibit 2: Despite foreign outflows, foreign ownership ratio remained elevated



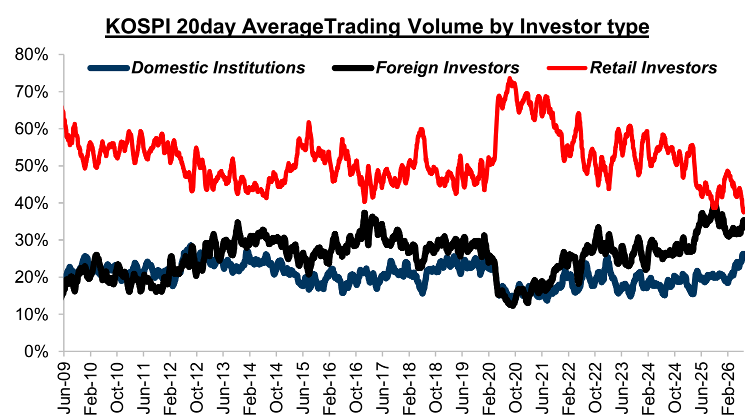
Source: Quantiwise, Goldman Sachs Global Investment Research

Exhibit 3: Deposit balance has grown faster than margin loan balance, driving its relative ratio to fall



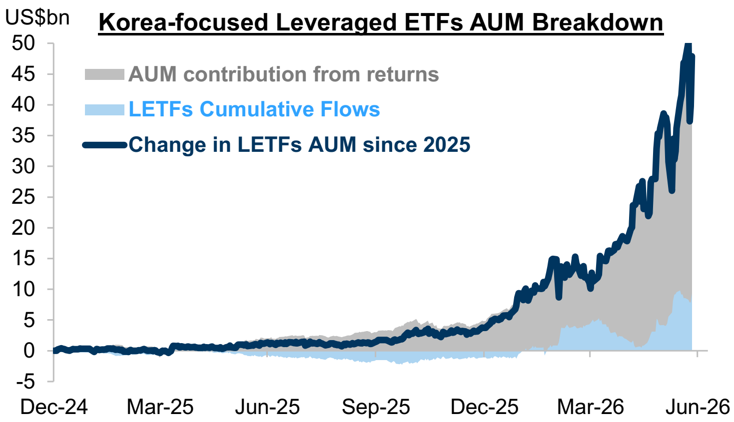
Source: Quantiwise, Goldman Sachs Global Investment Research

Exhibit 4: Retail investors turnover ratio has fallen to 37% despite their strong net inflows YTD



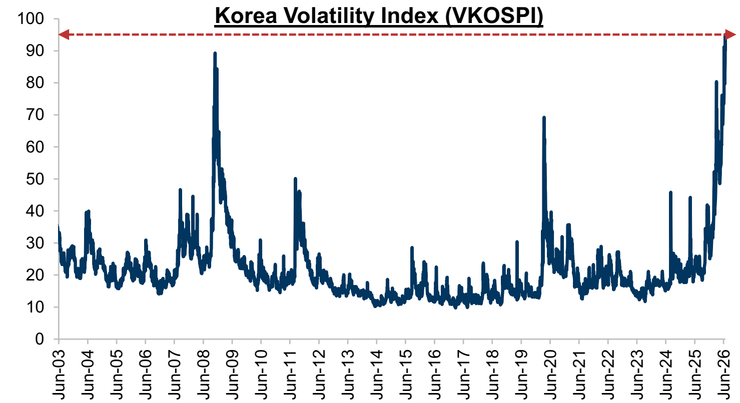
Source: Quantiwise, Goldman Sachs Global Investment Research

Exhibit 5: Korea-focused leveraged ETFs AUM has gone up to US$48bn but cumulative fund inflows have been US$9bn



Source: Bloomberg, EPFR, Refinitiv, Goldman Sachs Global Investment Research

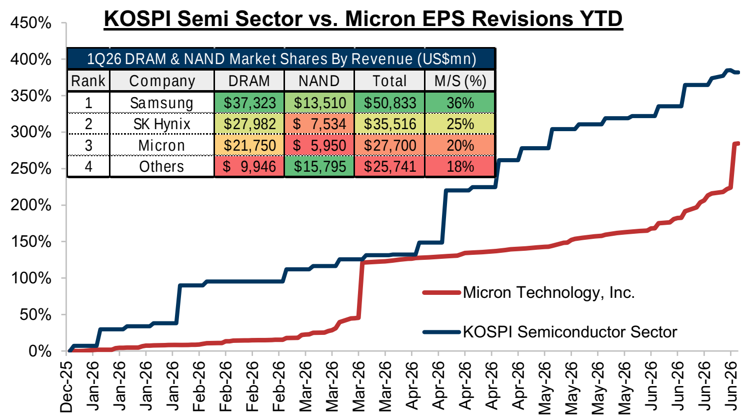
Exhibit 6: Korea Volatility Index (VKOSPI) has gone up to the level higher than the highest during GFC



Source: Bloomberg, Goldman Sachs Global Investment Research

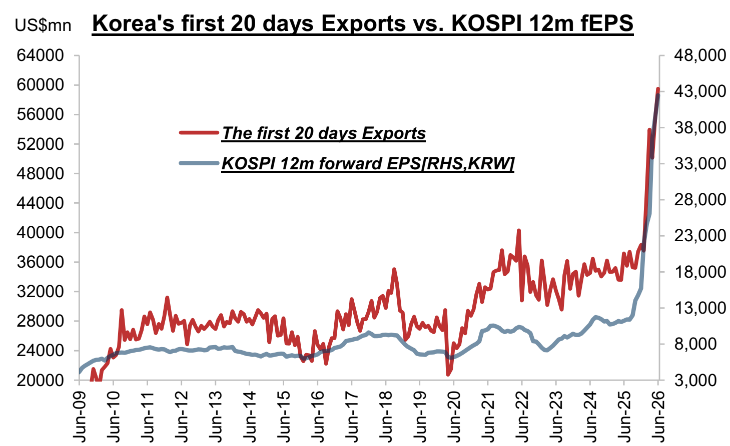
Charts of the week: Earnings Revisions Pulse Check Post Strong Earnings Beat By MU

Exhibit 7: Post strong earnings beat by Micron Technology, the firm's earnings revised up sharply



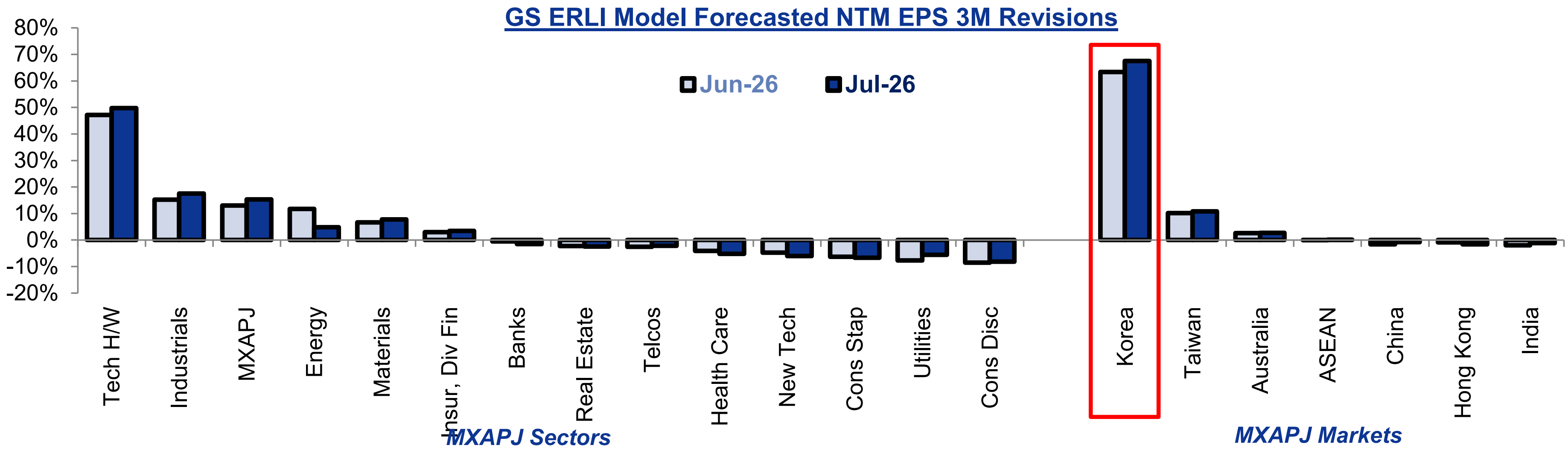
Source: FactSet, TrendForce

Exhibit 8: Korea's per-workday exports in the first 20 days of June rose 8.7% mom sa, accelerating from 3.1% the prior month, supporting earnings upgrades



Source: Quantiwise, Haver Analytics, Goldman Sachs Global Investment Research

Exhibit 9: ERLI projects further earnings upgrades, led by tech and North Asia



Source: Goldman Sachs Global Investment Research

Summary

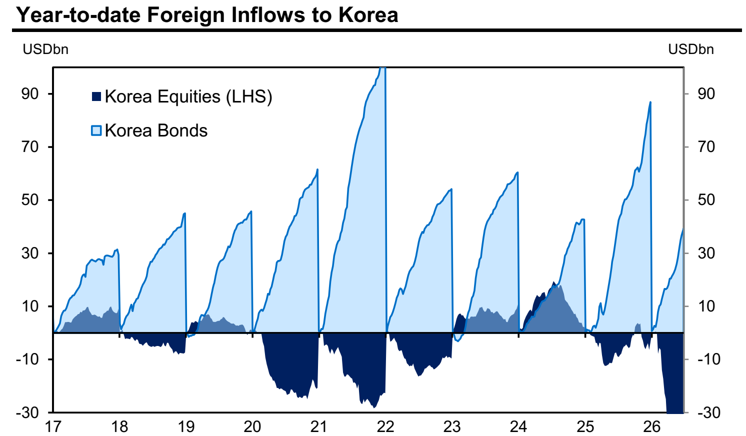
Exhibit 10: Summary of the past week's performance

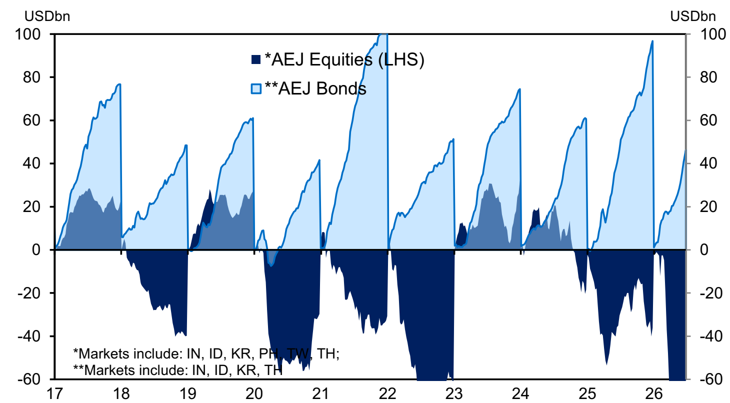
Equity Market Performance				
	P/E 2026E			1-wk chg
KOSPI	7.5	8,411.21	↓	(7.1)
KOSDAQ	26.2	851.37	↓	(11.9)
MSCI Korea	6.8	3,229.08	↓	(5.9)
KOSPI Performance by sector				
Top 3	wk chg (%)	**Bottom 3**		1wk chg (%)
Retail	(2.3)	Shipbuilding		(18.1)
Utilities	(3.3)	Auto		(17.7)
Telecom	(3.5)	Machinery		(16.1)
Market Flows				
Equities (KRW bn)		1-wk flow		in std dev*
KOSPI Flows: Foreigners		(16,973)	↓	-2.9
Institutions		(2,723)	↓	-1.3
Individuals		19,149	↑	3.1
Pensions		(515)	↓	-1.7
KOSDAQ Flows: Foreigners		918	↑	1.5
Institutions		753	↑	0.5
Individuals		(1,703)	↓	-1.0
Pensions		99	↑	0.9
FX/Interest Rate				
		Current		1-wk chg
USDKRW		1,538	↑	0.5
JPYKRW		9.51	↑	0.2
USDKRW 1M Risk Reversal/ATM vo		0.07	-	0bp
USDKRW 1yr swap basis		(85)	↑	4bp
3-year KTB		3.72	↓	-6bp
10-year KTB		4.12	↓	-5bp

Up (↑) = Up wow vs. the previous week
Asterisk (*) = Expressed in standard deviation of 1-wk change in 1-year

Source: Bloomberg

Exhibit 11: Summary of year-to-date flows

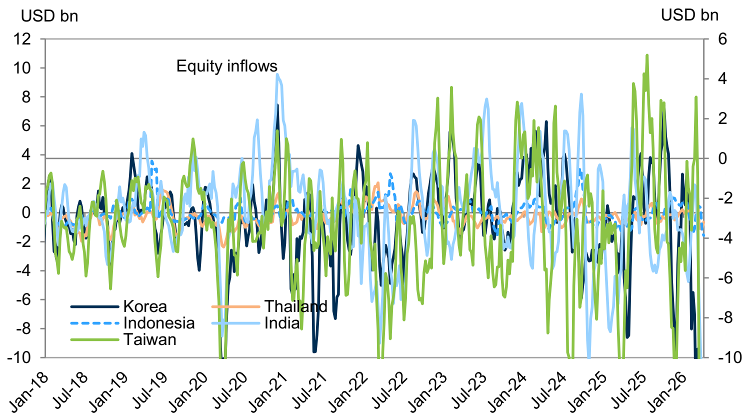




Source: Bloomberg

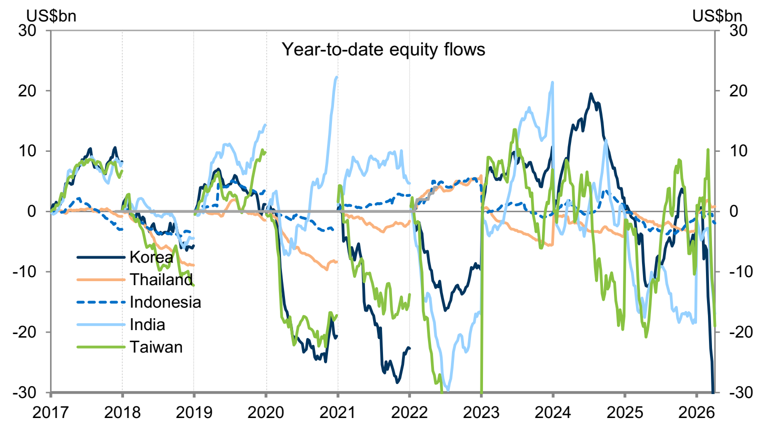
Investment flows

Exhibit 12: Equity inflows to 5 AEJ markets
4-week rolling sum



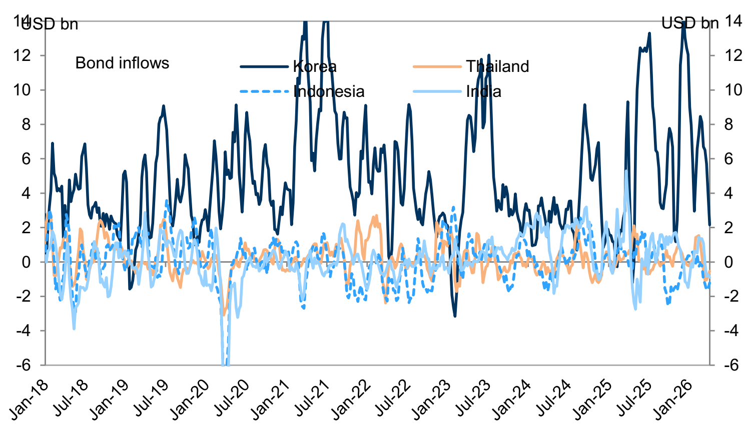
Source: Bloomberg, Goldman Sachs Global Investment Research

Exhibit 13: Equity inflows to 5 AEJ markets



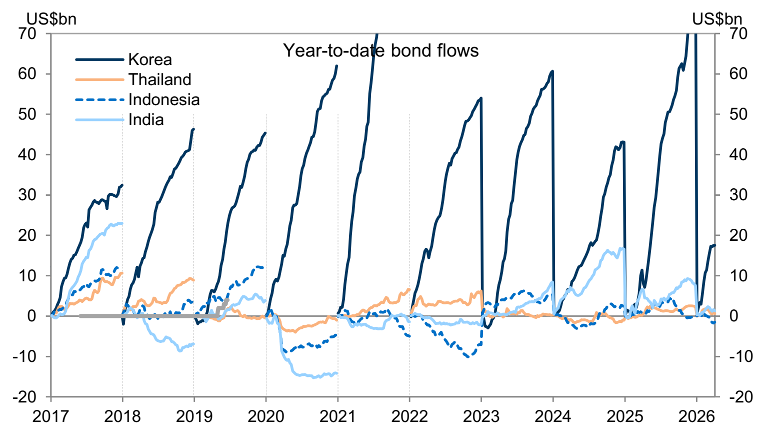
Source: Bloomberg

Exhibit 14: Bond inflows to 4 AEJ markets
4-week rolling sum



Source: Bloomberg, Haver Analytics, Goldman Sachs Global Investment Research

Exhibit 15: Bond inflows to 4 AEJ markets

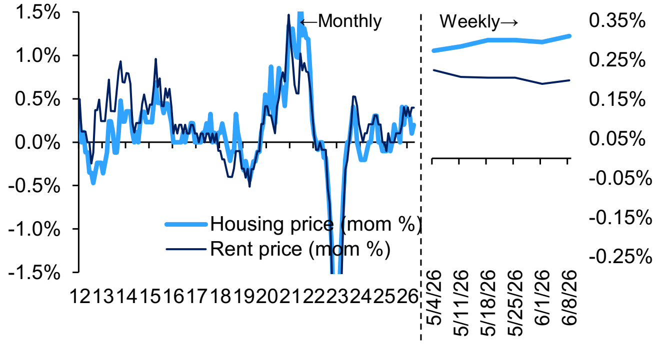


Source: Bloomberg, Haver Analytics, Goldman Sachs Global Investment Research

Macro Indicators

Exhibit 16: Housing prices and rental prices

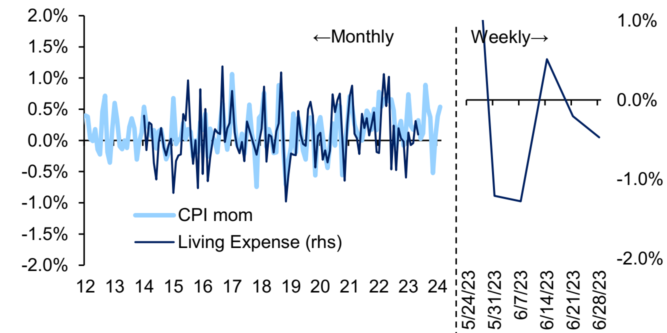
National, monthly and weekly price changes



Source: KAB

Exhibit 17: Living expense price changes

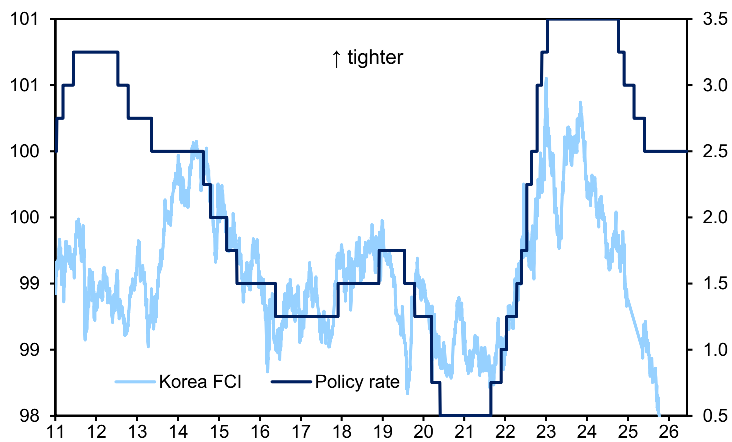
Monthly and weekly changes vs. CPI



Source: Bloomberg, Korea Price Research Center, Goldman Sachs Global Investment Research

Exhibit 18: Daily Financial Condition Index

Jan 1, 2013=100



Source: Bloomberg, CEIC, Goldman Sachs Global Investment Research

Exhibit 19: Korea Economic Forecasts

Monthly indicators

Monthly (% yoy)	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Exports ex ships	-1.2	9.5	14.1	35.7	29.0	52.7	48.0	54.9
Industrial production	-7.6	0.0	1.6	6.8	-2.3	3.9	1.5	
Employment	0.7	0.8	0.6	0.4	0.8	0.7	0.3	-0.1
CPI	2.4	2.4	2.3	2.0	2.0	2.2	2.6	3.1
BOK Policy Rate	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50

Note: Blue-shaded cells denote positive weekly changes and acceleration in monthly changes

Macro and market outlook

Forecasts	2025	2026	2027	1Q26	2Q26	3Q26	4Q26	1Q27
Real GDP	1.1	2.6	1.9	3.8	3.0	1.8	2.1	0.9
Domestic Demand	0.6	2.8	3.0	2.2	2.8	2.9	3.1	2.3
Exports	4.3	7.2	1.7	11.8	6.9	4.7	5.9	0.7
Imports	3.3	8.0	4.9	8.5	7.5	7.2	8.8	6.3
Consumer Prices	2.1	2.6	2.2	2.1	2.9	3.0	2.6	2.5
Current Account - % GDP	6.6	15.1	17.9	16.3	15.3	15.6	13.1	11.1
KOSPI (end / 12mf)	4214	12000*						
Policy rate (end)	2.50	3.00	3.00	2.50	2.50	2.75	3.00	3.00
USDKRW (end)	1,444	1,472	1,409	1,346	1,500	1,478	1,445	1,432

* KOSPI for 2025 is the year-end level and KOSPI for 2026 is 12-month target

Source: Bloomberg, Goldman Sachs Global Investment Research

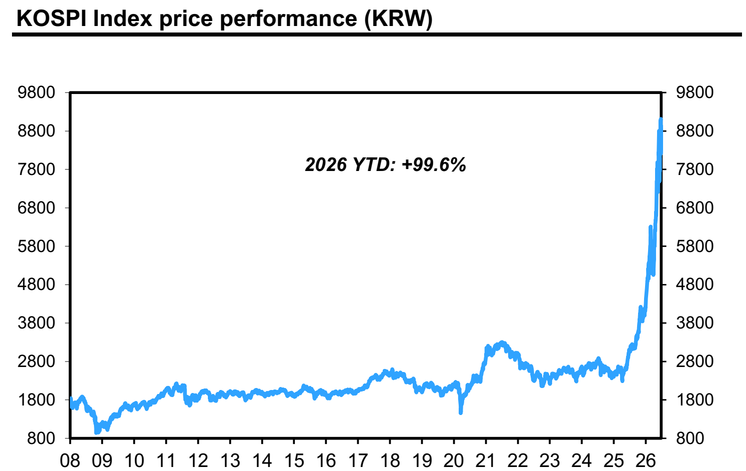
Performance

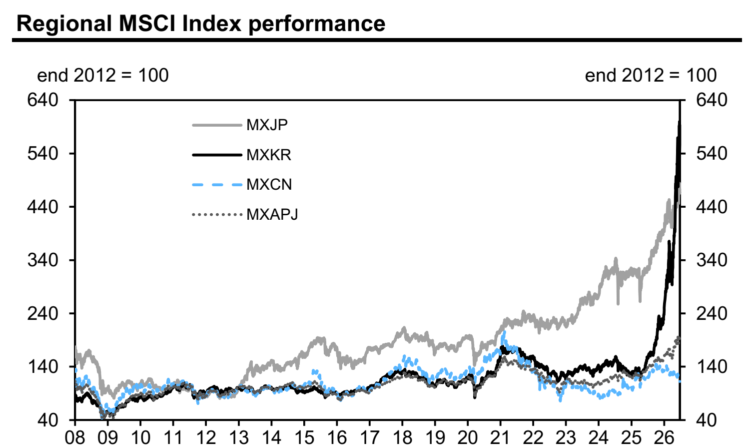
Exhibit 20: Performance of Korean and regional equity markets

		Index	Price return (%)					% vs average	
			Local Crncy		USD				
Korea	**Crn**	**26-Jun**	**1-wk**	**YTD**	**1-wk**	**YTD**	**RSI**	**30D**	**60D**
Kospi	KRW	8,411	(7.1)	99.6	(7.5)	86.9	59	2	15
Kospi 200	KRW	1,366	(6.4)	125.5	(6.8)	111.1	61	5	21
Kosdaq	KRW	851	(11.9)	(8.0)	(12.3)	(13.9)	33	(17)	(22)
MSCI Korea	KRW	3,229	(5.9)	134.1	(6.3)	119.1	61	54	60
Selected sector indexes									
Auto	KRW	3,004	(17.7)	18.8	(18.1)	11.2	34	(19)	(14)
Tech	KRW	149,640	(5.3)	200.6	(5.8)	181.4	65	72	64
Retail	KRW	761	(2.3)	58.9	(2.8)	48.7	57	3	12
Pharmaceutical	KRW	14,224	(3.7)	(17.7)	(4.2)	(23.0)	47	(5)	(10)
Steel	KRW	6,320	(13.3)	(3.3)	(13.8)	(9.5)	33	(19)	(25)
Chemicals	KRW	4,100	(11.4)	0.3	(11.9)	(6.1)	34	(14)	(18)
F&B	KRW	4,430	(5.4)	(2.0)	(5.8)	(8.3)	32	(8)	(9)
Machinery	KRW	3,138	(16.1)	15.4	(16.5)	8.0	35	(19)	(22)
Construction	KRW	146	(14.7)	48.6	(15.1)	39.1	37	(19)	(27)
Shipbuilding	KRW	1,551	(18.1)	7.1	(18.5)	0.2	34	(18)	(20)
Utilities	KRW	1,112	(3.3)	(20.3)	(3.7)	(25.4)	47	(5)	(11)
Banking	KRW	1,436	(9.0)	10.2	(9.4)	3.1	41	(7)	(8)
Securities	KRW	5,674	(14.5)	35.4	(14.9)	26.8	34	(20)	(26)
Insurance	KRW	55,632	(12.6)	82.4	(13.0)	70.8	57	4	19
Telecom	KRW	606	(3.5)	24.1	(3.9)	16.2	35	(8)	(8)
Software	KRW	199	(11.1)	(5.1)	(11.5)	(11.2)	33	(38)	(39)
Leisure	KRW	274	(13.1)	(45.6)	(13.5)	(49.1)	26	(60)	(63)
MSCI standard market and regional indexes									
AC Asia Pacific ex Japan	USD	903	(1.6)	25.0	(1.6)	25.0	54	2	5
USA	USD	7,007	(2.0)	7.3	(2.0)	7.3	45	(1)	1
EU	EUR	214	0.8	8.4	(0.1)	5.0	64	2	4
China	HKD	71	(3.7)	(14.9)	(4)	(15.5)	29	(7)	(9)
Japan	JPY	2,516	(0.9)	20.4	(1.2)	16.6	58	3	6
Regional indexes									
America									
S&P 500 (US)	USD	7,357	(1.9)	7.5	(1.9)	7.5	46	(1)	1
NASDAQ (US)	USD	25,359	(4.4)	9.1	(4.4)	9.1	43	(3)	1
BOVESPA (Brazil)	BRL	171,990	2.2	6.7	1.6	12.9	47	(0)	(5)
Asia									
Hang Seng (Hong Kong)	HKD	22,672	(5.2)	(11.5)	(5.3)	(12.2)	27	(9)	(11)
Hang Seng Ent. (China)	HKD	7,461	(6.5)	(16.3)	(6.5)	(16.9)	23	(10)	(12)
Topix (Japan)	JPY	3,963	(2.0)	16.3	(2.2)	12.7	50	1	3
TW Weighted (Taiwan)	TWD	44,572	(4.1)	53.9	(5.0)	51.7	60	1	8
Straits Times(Singapore)	SGD	5,189	(0.1)	11.7	(0.3)	11.0	66	2	3
S&P CNX Nifty (India)	INR	24,056	(0.5)	(7.9)	(0.5)	(12.4)	57	2	1
Europe									
DJ EURO STOXX 50 (EU)	EUR	6,224	(1.1)	7.5	(1.7)	4.3	61	2	4
FTSE 100 (UK)	GBP	10,458	0.9	5.3	0.8	3.3	58	1	0

Source: Bloomberg, MSCI

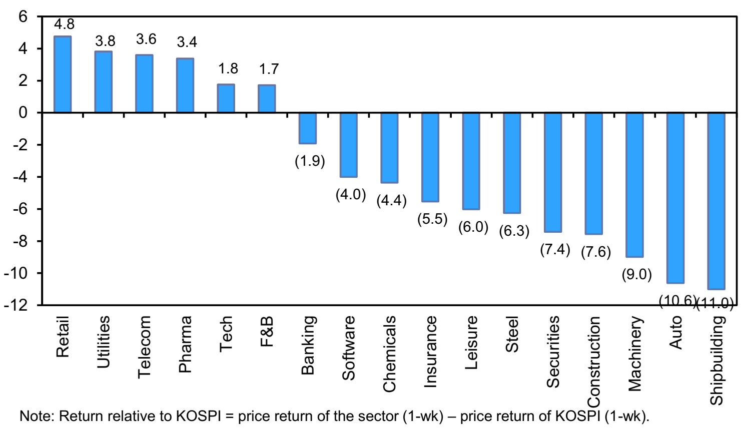
Exhibit 21: KOSPI and MSCI regional index





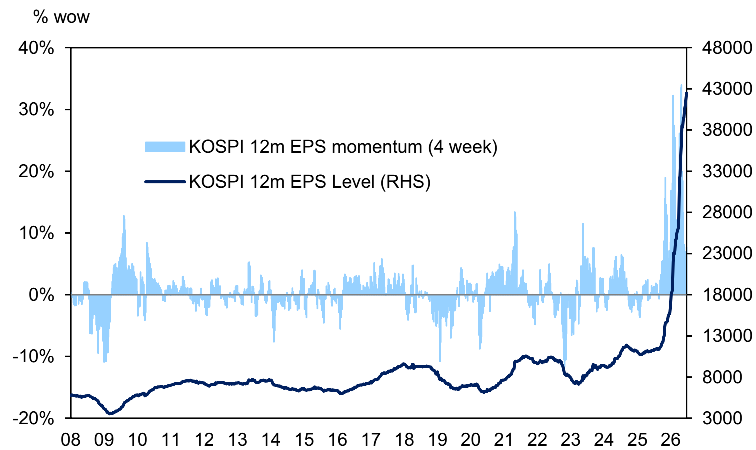
Source: Bloomberg, MSCI

Exhibit 22: Weekly sector performance relative to KOSPI



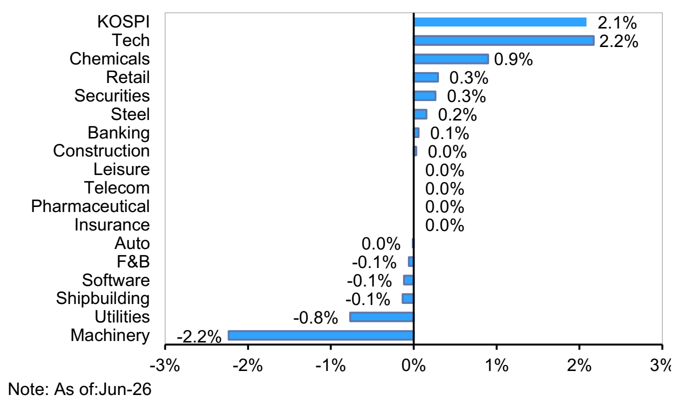
Source: Bloomberg, Quantiwise

Exhibit 23: Historical trend of monthly KOSPI earnings momentum



Source: Quantiwise

Exhibit 24: Weekly earnings momentum for KOSPI and selected sectors



Source: Quantiwise

Exhibit 25: KOSPI earnings revisions by sector

As of: Jun-26		2026E EPS Revision		2027E EPS Revision	
Sector	**Index wgt**	**6M**	**3M**	**6M**	**3M**
Tech	21%	**263%**	**70%**	**355%**	**103%**
Software	6%	**2%**	-16%	**3%**	-9%
Chemicals	12%	**53%**	**78%**	**7%**	**6%**
Auto	8%	-6%	-2%	-4%	-4%
Steel	4%	**3%**	**4%**	**3%**	**5%**
Machinery	2%	**5%**	**4%**	**12%**	**5%**
Shipbuilding	1%	-2%	-2%	**1%**	-2%
Retail	7%	**10%**	**6%**	**6%**	-1%
F&B	3%	0%	**2%**	**0%**	-2%
Pharmaceutical	2%	**8%**	-13%	**5%**	-15%
Leisure	1%	-15%	-25%	-9%	-19%
Utilities	4%	-43%	-43%	-33%	-30%
Telecom	2%	0%	-2%	**1%**	0%
Construction	2%	**5%**	**19%**	**7%**	**14%**
Insurance	5%	**16%**	**7%**	**18%**	**9%**
Banking	5%	**4%**	**2%**	**5%**	**2%**
Securities	2%	**68%**	**27%**	**37%**	**17%**
KOSPI		**133%**	**47%**	**172%**	**67%**

Source: Quantiwise

Valuations

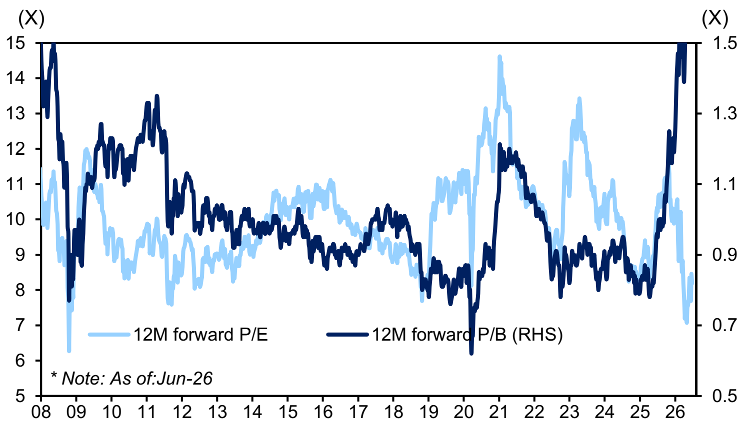
Exhibit 26: Valuation summary for regional equity markets

			Consensus estimates													
	Local Currency	Bloomberg Ticker	P/E (X)		EPS Growth (%)		P/B (X)		D/Y (%)		ROE (%)			EBIT Margin (%)		P/CF (%)
			2026E	2027E	2026E	2027E	2026E	2027E	2026E	2027E	2026E	2027E	2028E	2026E	2027E	2026E
MSCI markets																
Australia	AUD	MXAU	18.1	17.0	8.4	6.6	2.5	2.4	3.6	3.8	13.4	14.1	14.5	27.6	27.7	10.8
Singapore Free	SGD	SIMSCI	17.3	15.7	7.0	10.1	2.0	2.0	3.8	4.0	11.8	12.1	12.7	23.7	23.8	8.5
Hong Kong	HKD	MXHK	14.1	13.4	16.1	5.5	1.1	1.1	4.0	4.2	7.4	8.3	8.4	14.6	14.7	10.3
India	INR	MXIN	21.8	18.7	14.1	16.4	3.1	2.8	1.4	1.5	15.4	15.3	15.8	17.4	18.3	15.8
Indonesia	IDR	MXID	8.7	8.0	3.7	9.1	1.4	1.3	8.2	8.5	16.9	16.7	17.3	32.4	32.0	4.6
Japan	JPY	MXJP	18.1	16.1	15.0	12.2	2.0	1.8	1.9	2.1	10.5	11.1	11.7	11.1	12.2	12.5
Korea	**KRW**	**MXKR**	**9.4**	**6.8**	**298.9**	**38.4**	**2.9**	**2.1**	**0.6**	**0.7**	**11.1**	**35.5**	**35.7**	**35.2**	**42.0**	**7.7**
Malaysia	MYR	MXMY	13.9	13.2	9.8	5.3	1.5	1.4	4.4	4.7	10.1	10.8	10.9	26.5	26.5	8.6
Pakistan	PKR	MXPK	7.3	6.5	7.3	11.8	1.4	1.3	6.4	7.2	20.1	20.2	20.2	14.1	26.3	23.6
Philippines	PHP	MXPH	10.6	9.6	0.9	10.6	1.5	1.3	3.4	3.5	15.7	14.3	14.4	31.7	31.5	
Taiwan	TWD	MXTW	25.0	19.9	43.6	25.9	5.5	4.6	1.6	1.9	18.9	23.9	25.2	15.7	16.3	8.6
Thailand	THB	MXTH	18.4	17.5	10.4	4.9	2.1	2.0	3.3	3.5	11.0	11.8	11.8	12.2	12.3	13.2
AC Asia Pacific	USD	MXAP	15.0	12.3	44.1	21.6	2.2	2.0	2.0	2.2	11.8	15.7	16.9	19.0	21.5	
AC Asia Pacific ex Japan	USD	MXAPJ	14.1	11.3	61.1	24.2	2.4	2.0	2.0	2.2	12.5	18.1	19.5	22.8	25.5	20.3
AC Asia ex Japan	USD	MXASJ	13.7	10.9	67.0	26.0	2.4	2.0	1.8	2.0	12.4	18.7	20.0	22.4	25.4	9.4
AC Far East ex Japan	USD	MXFEJ	13.0	10.2	75.6	27.1	2.3	1.9	1.8	2.0	12.1	19.0	20.4	22.9	26.0	0.0

Note: As of Jun-25-2026

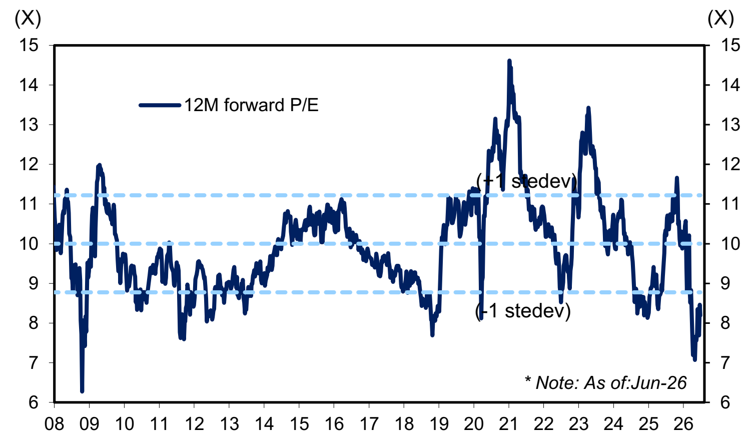
Source: Bloomberg, I/B/E/S, FactSet, Goldman Sachs Global Investment Research

Exhibit 27: 12-month forward P/E and P/B for KOSPI, since Jan 2008



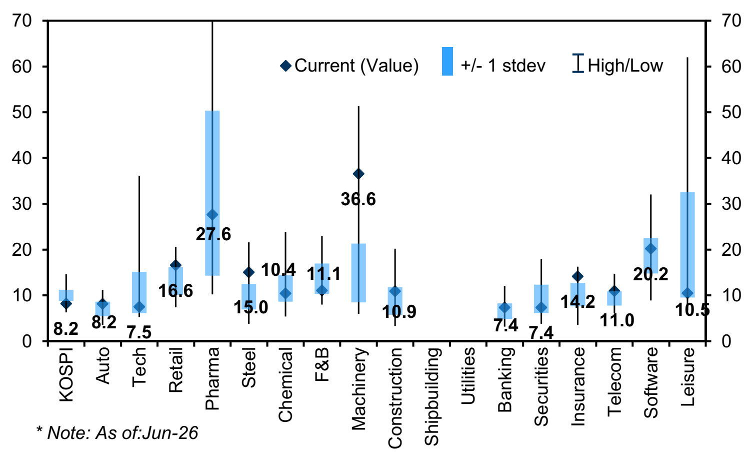
Source: Quantiwise

Exhibit 28: 12-month forward P/E for MSCI Korea, since Jan 2008



Source: Quantiwise

Exhibit 29: Current 12m forward P/E of KOSPI and selected sectors since Jan 2006



Source: Quantiwise, Goldman Sachs Global Investment Research

Exhibit 30: 12-m forward P/E for KOSPI and selected sectors since Jan 2006

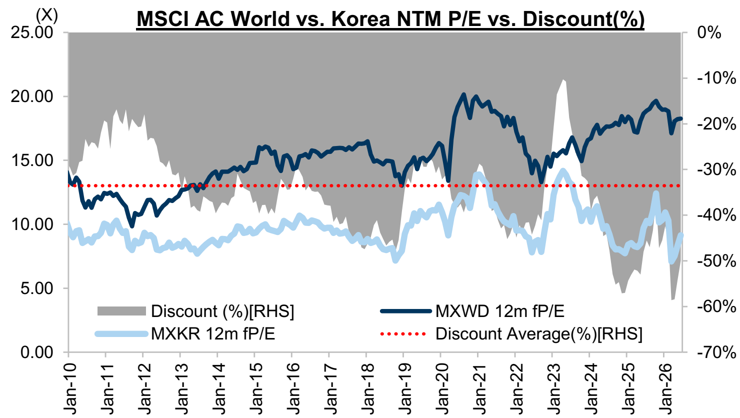
KOSPI sector	Current	Low	-1std.dev	Mean	+1std.dev	High
KOSPI Index	**8.2**	6.3	8.8	10.0	11.2	14.6
Auto	**8.2**	3.5	5.4	7.0	8.6	11.2
Tech	**7.5**	5.3	6.1	10.6	15.2	36.2
Retail	**16.6**	7.4	10.1	13.1	16.2	20.6
Pharmaceuticals	**27.6**	10.2	14.3	32.3	50.4	72.8
Steel	**15.0**	3.8	7.0	9.7	12.5	21.6
Chemical	**10.4**	5.4	8.6	11.5	14.4	23.9
F&B	**11.1**	8.0	10.3	13.6	17.0	23.0
Machinery	**36.6**	6.0	8.5	14.9	21.3	51.3
Construction	**10.9**	3.3	5.8	8.8	11.8	20.2
Shipbuilding	**27.7**			21.5		
Banking	**7.4**	3.2	4.9	6.6	8.3	12.1
Securities	**7.4**	3.8	6.1	9.2	12.4	17.9
Insurance	**14.2**	3.6	7.6	10.2	12.7	16.3
Telecom	**11.0**	6.1	7.8	9.3	10.9	14.7
Software	**20.2**	8.9	14.8	18.7	22.6	32.0
Leisure	**10.5**	6.7	9.5	21.0	32.5	62.0

Note: As of:Jun-26

Source: Quantiwise

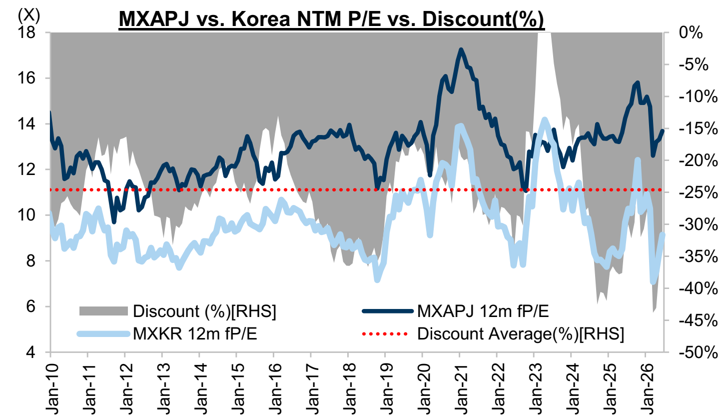
Valuation discount relative to Global and Asia regional peers

Exhibit 31: MXKR valuation discount relative to MSCI AC World NTM P/E



Source: FactSet, MSCI, Goldman Sachs Global Investment Research

Exhibit 32: MXKR valuation discount relative to MXAPJ NTM P/E



Source: FactSet, MSCI, Goldman Sachs Global Investment Research

Exhibit 33: NTM P/E Valuation Discount vs. 10-year History by Sector

NTM P/E Valuation Discount vs. 10-Year History	Current		Z-Score	
	vs. MXWD	vs. MXAPJ	vs. MXWD	vs. MXAPJ
Energy	-22%	-18%	-0.21	-0.26
Materials	4%	0%	1.46	0.70
Industrials	-35%	-14%	-0.19	-0.24
Consumer Discretionary	-51%	-27%	0.97	2.76
Consumer Staples	-13%	-13%	0.58	1.27
Health Care	90%	38%	-1.16	-0.65
Financials	-30%	-20%	1.44	1.74
Information Technology	-68%	-47%	-0.95	-0.82
Communication Services	-12%	19%	-0.49	1.12
Utilities	-	-	-	-
MXKR	**-55%**	**-40%**	**-1.69**	**-1.45**

Source: FactSet, MSCI, Goldman Sachs Global Investment Research

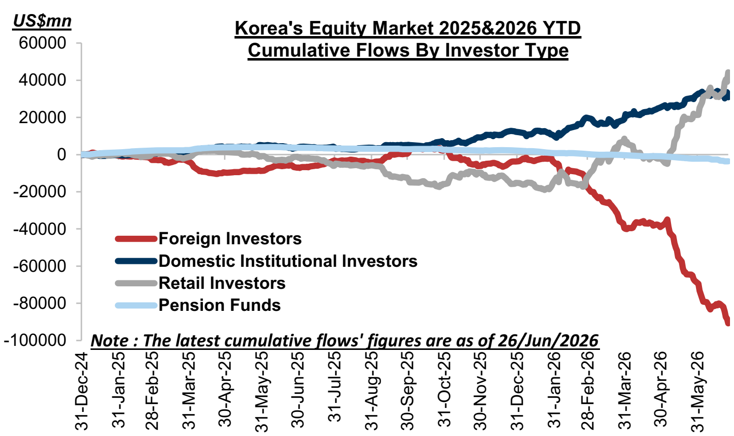
Exhibit 34: P/B Valuation Discount vs. 10-year History by Sector

P/B Valuation Discount vs. 10-Year History	Current		Z-Score	
	vs. MXWD	vs. MXAPJ	vs. MXWD	vs. MXAPJ
Energy	-42%	-7%	-0.10	1.20
Materials	-78%	-76%	-2.13	-2.24
Industrials	-23%	44%	3.93	3.46
Consumer Discretionary	-72%	-47%	1.67	2.76
Consumer Staples	-38%	-19%	1.36	1.58
Health Care	-8%	17%	-1.09	-0.27
Financials	-43%	-22%	1.58	4.36
Information Technology	-44%	-11%	3.48	3.75
Communication Services	-68%	-48%	-1.28	-0.59
Utilities	-76%	-67%	0.76	1.18
MXKR	**-7%**	**35%**	**6.01**	**7.08**

Source: FactSet, MSCI, Goldman Sachs Global Investment Research

Flows

Exhibit 35: 2025 & 2026 year-to-date KOSPI purchase by investor type



Source: Quantiwise, Goldman Sachs Global Investment Research

Exhibit 36: KOSPI net equity transactions by investor type (KRW bn)

	Weekly			
	May 29 - Jun 05	Jun 05 - Jun 12	Jun 12 - Jun 19	Jun 19 - Jun 26
Financial Institutions	2,533	53	(243)	(2,723)
- Banks	(28)	11	10	(11)
- Securities	3,533	(762)	1,403	551
- Insurance	(381)	25	(562)	(336)
- Investment trusts	47	1,361	1,068	(1,654)
- Pension funds	(70)	(676)	(1,095)	(515)
- Other financial institutions	20	6	(15)	(21)
- PEF	(588)	88	(1,051)	(736)
Foreigners	(18,630)	(4,340)	2,559	(16,973)
Individuals	15,977	3,773	(1,939)	19,149
Others	45	480	(358)	482
(YTD)				
Financial Institutions	31,741	31,794	31,551	28,828
- Investment trusts	(3,527)	(2,166)	(1,098)	(2,753)
- Pension funds	(6,536)	(7,212)	(8,307)	(8,822)
Foreigners	(119,205)	(123,545)	(120,986)	(137,959)
Individuals	73,662	77,435	75,496	94,645

Source: Quantiwise, Goldman Sachs Global Investment Research

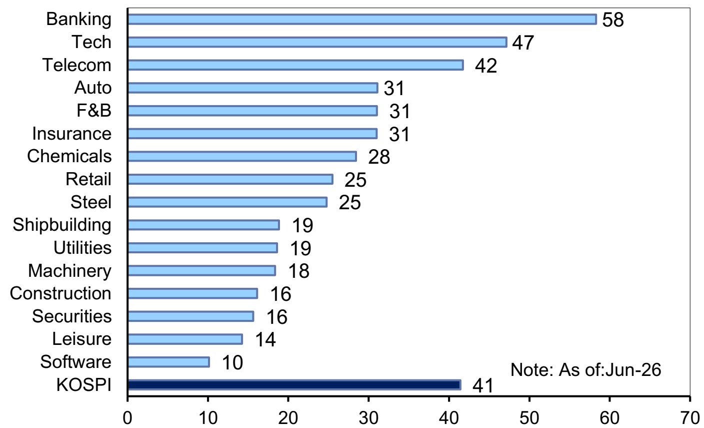
Exhibit 37: Weekly fund flows on sectors by investor type, with relative returns to KOSPI

KOSPI and sector's relative returns and flow data

Sectoral flows by investor type	Retail	Util	Telco	Tech	F&B	Bank	Chem	Ins	Leis	Steel	Soft	Sec	Cons	Mach	Auto	Ship	*KOSPI*
Rel return to KOSPI (%)	4.8%	3.8%	3.6%	1.8%	1.7%	-1.9%	-4.4%	-5.5%	-6.0%	-6.3%	-7.3%	-7.4%	-7.6%	-9.0%	-10.6%	-11.0%	**-7.1%**
Foreign Flows / Mkt Cap (bp)	-21	11	22	-31	0	0	12	0	7	6	17	21	52	5	-20	14	**-25**
Retail Flows / Mkt Cap (bp)	19	-16	-10	33	-5	11	4	0	5	6	-4	-21	-43	16	33	6	**28**
Pension Flows / Mkt Cap (bp)	2	9	-6	0	0	1	-6	4	-13	-3	-4	-17	-1	-5	-2	-2	**-1**
Inv Trust Flows / Mkt Cap (bp)	6	0	-1	-3	1	0	-4	0	-7	-6	-5	-4	-6	-14	-5	-7	**-2**
Foreign Flows (KRW bn)	-275	34	86	-14384	-2	-4	178	-2	6	50	112	135	171	55	-463	698	**-16973**
Retail Flows (KRW bn)	255	-46	-38	15365	-24	200	64	3	4	46	-26	-130	-142	176	794	296	**19149**
Pension Flows (KRW bn)	29	26	-22	-127	-2	9	-93	53	-10	-25	-28	-108	-2	-55	-54	-111	**-515**
Inv Trust Flows (KRW bn)	86	0	-5	-1479	6	-3	-60	0	-6	-47	-34	-24	-18	-154	-109	-338	**-1654**

Source: Quantiwise, Korea Exchange, Goldman Sachs Global Investment Research

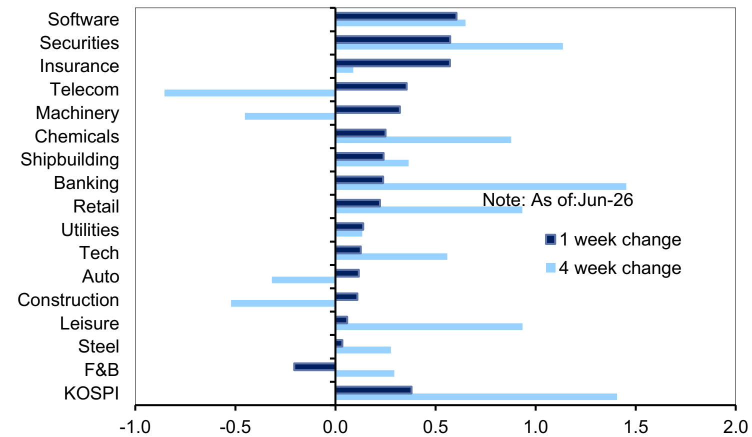
Exhibit 38: KOSPI sectors, ranked by foreign ownership as a % of total market value



Source: Korea Exchange, Quantiwise

Exhibit 39: KOSPI sectors ranked by foreign ownership % change

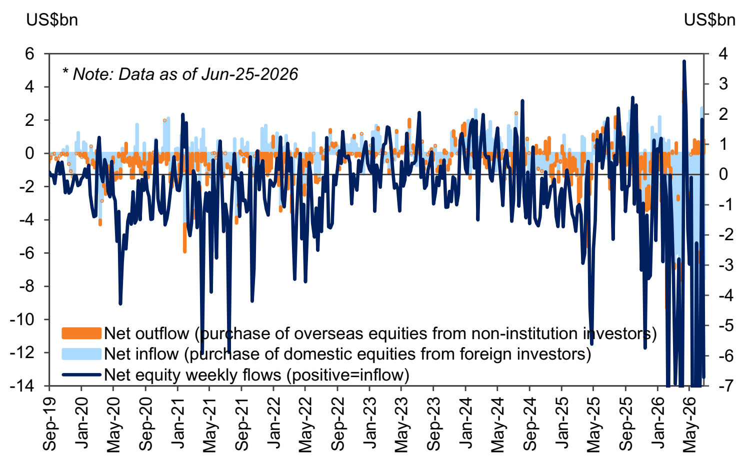
Absolute ownership % (market value) changes



Source: Korea Exchange, Quantiwise

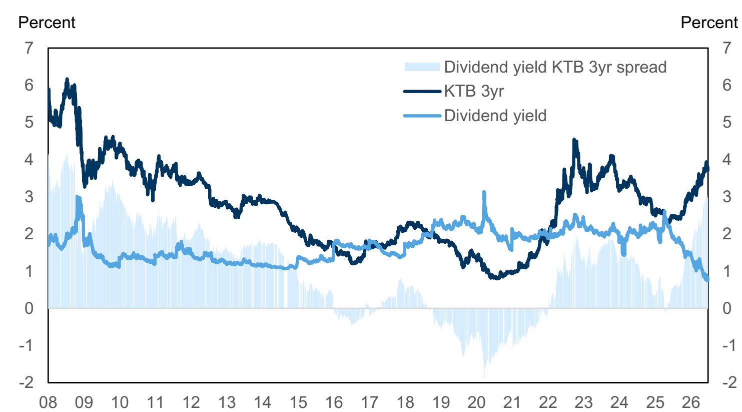
Exhibit 40: Equity net weekly flows

(Week ending on Thursday due to data availability)



Source: KSD, Quantiwise, Haver, Goldman Sachs Global Investment Research

Exhibit 41: 12-month forward D/Y for KOSPI and Korea Treasury bond yield



Source: Bloomberg, Goldman Sachs Global Investment Research

Currency, rates and commodities

Exhibit 42: Currency, rates and commodities

Sectoral flows by investor type

Currency	Bloomberg Ticker	Current	Price Change (%) 1-wk	1-mo	3-mo	YTD
US Dollar/ Korean Won	USDKRW	1,538	0.5	2.6	2.1	6.8
US Dollar/ Korean Won - 3M NDF	KWN+3M	1,536	0.5	2.5	2.1	6.9
US Dollar/ Korean Won - 6M NDF	KWN+6M	1,532	0.8	2.5	2.2	7.1
US Dollar/ Korean Won - 12M NDF	KWN+12M	1,526	0.8	2.5	2.2	7.2
Japanese Yen / Korean Won	JPYKRW	9.51	0.2	1.2	0.8	3.2
Euro/ Korean Won	EURKRW	1,754	(0.1)	0.5	0.8	3.4
Chinese Yuan/ Korean Won	CNYKRW	226.1	(0.0)	2.2	3.7	9.4
Euro/ US Dollar	EURUSD	1.141	(0.6)	(1.9)	(1.0)	(2.9)
US Dollar/ Chinese Yuan	USDCNY	6.798	0.4	0.3	(1.7)	(2.7)
US Dollar/ Japanese Yen	USDJPY	161.60	0.2	1.3	1.1	3.1

Fixed Income	Bloomberg Ticker	Yield (%) Last Close	-1 wk	-1 mo	-3 mo
Korea 3M CD	KSDACD3M	2.92	2.92	2.85	2.82
Korea Treasury Bond 3yr	KOTB3YR	3.72	3.78	3.71	3.55
Korea Treasury Bond 10yr	KOTB10YR	4.12	4.17	4.10	3.87

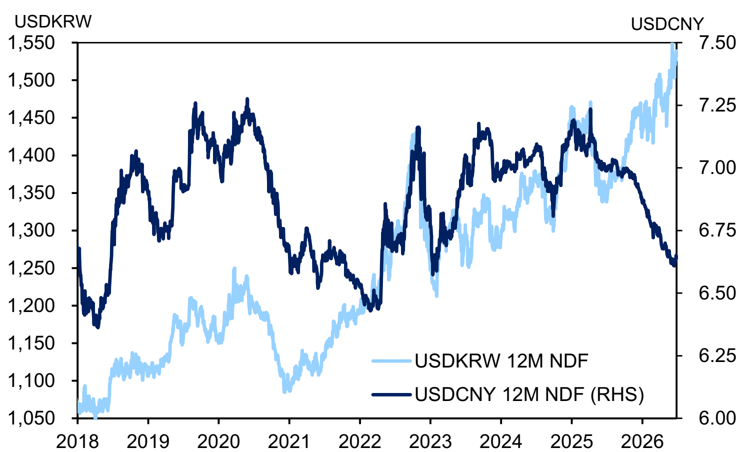
Major Commodity prices

Commodity	Bloomberg Ticker	Unit	Crncy	Last Close	Price Change (%) 1-wk	1-mo	3-mo	YTD
Baltic Dry	BDIY	N/A	USD	2,591	(2.6)	(16.0)	29.5	38.0
WTI	CL1	per barrel	USD	69	(9.6)	(21.9)	(26.7)	20.7
Coal	XAA	per ton	USD	114	(0.7)	(9.9)	(13.7)	20.0
Gold	GOLDS	per oz.	USD	4,052	(2.5)	(9.0)	(7.4)	(6.2)
Aluminum	LA1	per ton	USD	3,163	(7.0)	(14.9)	(3.9)	6.2
Copper	LP1	per ton	USD	13,255	(3.0)	(2.6)	7.9	6.3
Steel	STEEL	per ton	USD	3,178	(2.3)	(4.2)	16.2	25.0
Zinc	LMZSDY	per ton	USD	3,441	(5.3)	(2.1)	12.5	11.7
Corn	C1	per bushel	USD	413	(1.1)	(8.8)	(11.6)	(6.2)
Wheat	W1	per bushel	USD	579	(4.4)	(7.0)	(4.3)	14.2
Soybean	S1	cent per bushel	USD	1,120	(0.3)	(5.5)	(4.6)	8.7
DRAM*	ISPPDR29	per chip	USD	10.0	5.9	28.7	54.7	168.4
DRAM**	ISPPDR35	per chip	USD	11.2	6.9	29.1	64.8	143.8

Note: We show spot prices for * DDR3 4Gb 512Mx8 1333/1600MHz and ** DDR4 4Gb 542Mx8 2133/2400 MHz

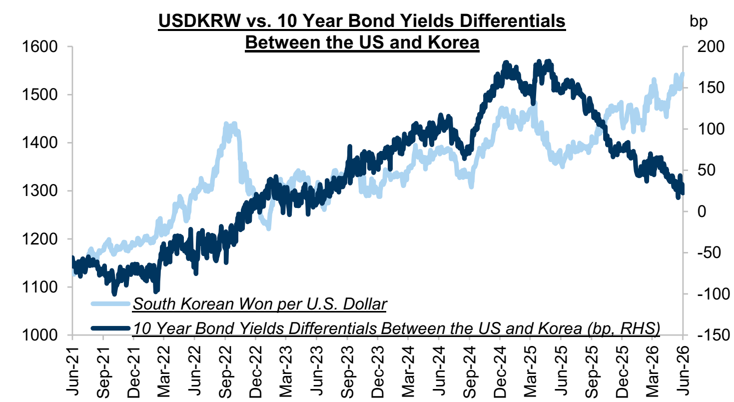
Source: Bloomberg

Exhibit 43: USDKRW and USDCNY rates



Source: Bloomberg

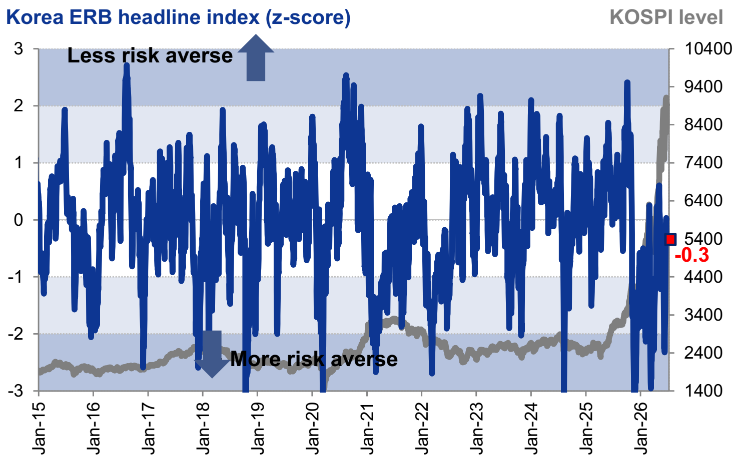
Exhibit 44: USDKRW vs. 10 year bond yields differentials between the US and Korea



Source: FactSet, Goldman Sachs Global Investment Research

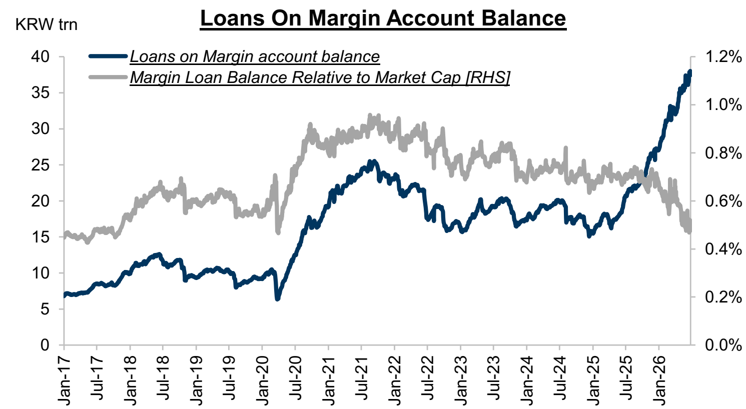
Korea ERB, Credit and Market Technicals

Exhibit 45: Korea Equity Risk Barometer



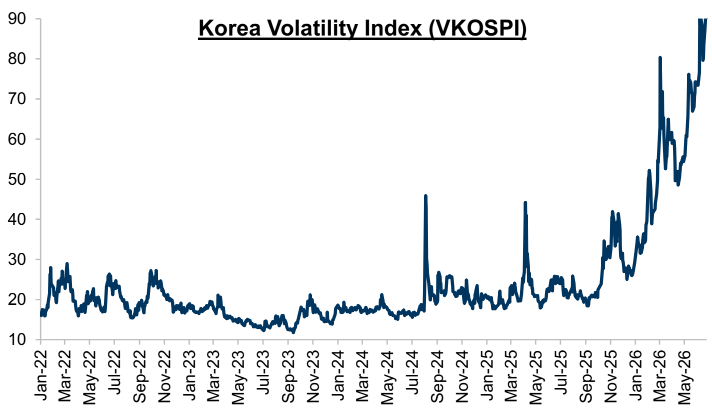
Source: Goldman Sachs Global Investment Research

Exhibit 46: Loans on Margin account balance



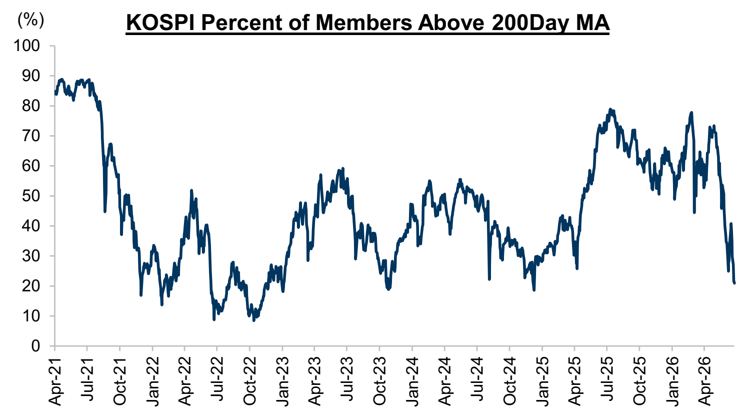
Source: Bloomberg, Korea Financial Investment Association, Goldman Sachs Global Investment Research

Exhibit 47: Korea Volatility Index (VKOSPI)



Source: Bloomberg, Goldman Sachs Global Investment Research

Exhibit 48: KOSPI Percent of Members above 200 day moving average



Source: Bloomberg, Goldman Sachs Global Investment Research

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