

Bloomberg Code (222800 KS) Reuters Code (222800.KQ)

4 May 2021

## [Handset/electronics]

#### HyungWou Park

**2** (82-2) 3772-2184

## YeongMin Ko

**3** (82-2) 3772-1595

## Memory substrate boom to arrive in 2022



**BUY** (Maintain)



CP (May 3) KRW22,750



TP (6 months)

KRW31,000



Upside

36.3%

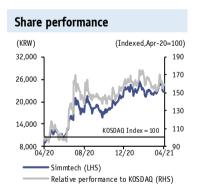
Shinhan Investment Corp. does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision. Analysts employed by Shinhan Investment Corp., or a non-US affiliate thereof, are not registered/qualified as research analysts with FINRA, may not be associated persons of the member and may not be subject to FINRA restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account. For analyst certification and important disclosures, refer to the Compliance & Disclosure Notice at the end of this report.



Rating	BUY (Maintain)
TP (6 months)	KRW31,000
Upside	36.3%

KOSPI	3,127.20p
KOSDAQ	961.81p
Market cap	KRW724.7bn/USD635.7mn
Par value	KRW500
Outstanding shares	31.9mn
Free float	18.8mn(59.0%)
52-week high/low	KRW26,100/KRW9,170
60-day avg. trading volu	ıme 455,297shrs
60-day avg. turnover	KRW10,854mn
Foreign ownership	4.54%
Major shareholders	
Simmtech Holdings and	8 others 35.66%

Absolute performance	
3M	-1.3%
6M	27.1%
12M	138.2%
Relative performance to KOSDAQ	
3M	-0.4%
6M	8.2%
12M	59.8%



#### 1021 results in line with expectations

Simmtech reported operating profit of KRW15.3bn (+12% YoY) on sales of KRW283.1bn (-2% YoY) for 1Q21, in line with our estimate (KRW15.4bn). The first quarter is typically a weak season. Inventory adjustments for serveruse memory substrates continued from 4Q20. But solid orders for mobile components and earnings improvement of the Japanese subsidiary (operating profit of KRW1.5bn) buttressed overall earnings.

#### Earnings rebound in 2021, big cycle of memory substrates in 2022

We forecast 2Q21 operating profit of KRW30.5bn (-1% YoY). With clients wrapping up inventory adjustments in 1Q21, signs of a market rebound have been witnessed since April. Sales of MSAP substrates have increased and orders for server-use substrates have started to come in.

Full-year operating profit is projected to reach KRW110.2bn (+23% YoY) in 2021 and KRW131.5bn (+19% YoY) in 2022. Momentum from technological changes should become visible from 2022.

Simmtech announced in February that added capacity for MSAP (SiP, etc.) will go into production at the end of 2021. Contribution to earnings should be felt from 2022, adding around KRW100bn in sales of high value-added substrates per year. Combined sales of FCSSP and SiP are expected to climb from KRW109.9bn in 2020 to KRW158.7bn in 2021.

The industry adoption of DDR5 should pick up from 2022. Simmtech saw a boost in earnings when the industry transitioned to DDR3 in 2008 and DDR4 in 2014. We believe it will emerge as a major beneficiary of the transition to DDR5 in 2022-2023. The shift should result in ASP hikes in about 30% of the company's total product mix.

# Retain BUY for a target price of KRW31,000; domestic package substrate bellwether

We plan to change the valuation base from 2021 to 2022 EPS forecasts when sales start to flow in from the industry's shift to DDR5.

First, Simmtech is one of a handful of IT parts suppliers expected to deliver strong results for 2Q21, given its low exposure to mobile devices. Second, while eyes are on the supply and demand of substrates used in system semiconductors (FCBGA, FCCSP, SiP, etc.), we focus on possible changes in demand for memory-use substrates in 2022 from the adoption of DDR5 and supply constraints. Third, along with growth of EBITDA, we expect further improvement in the company's financial standing (debt ratio) and an increase in dividends.

Year to	Sales	OP	Pre-tax	NP	EPS	Growth	BPS	PER	EV/EBITDA	PBR	ROE	Net debt
December	(bn KRW)	(bn KRW)	(bn KRW)	(bn KRW)	(KRW)	(%)	(KRW)	(x)	(x)	(x)	(%)	ratio (%)
2019	1,000.2	(17.9)	(42.4)	(36.6)	(1,486)	TR	6,676	(7.9)	11.0	1.8	(19.5)	208.0
2020	1,201.4	89.7	74.9	56.6	1,935	TB	8,840	11.8	5.3	2.6	25.1	49.8
2021F	1,201.7	110.2	95.0	77.4	2,378	22.9	10,876	9.6	4.4	2.1	24.1	17.2
2022F	1,305.7	131.5	122.8	100.2	3,078	29.4	13,562	7.4	3.4	1.7	25.2	(10.7)
2023F	1,391.0	145.7	138.2	112.8	3,463	12.5	16,585	6.6	2.6	1.4	23.0	(30.4)

Source: Company data, Shinhan Investment Corp. / Note: TB = turn black, TR = turn red, RR = remain red

### **DDR5** solutions



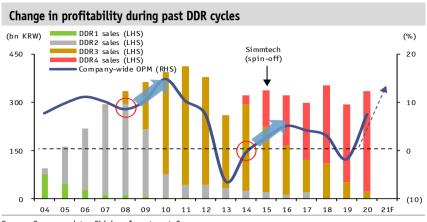
Source: Renesas, Shinhan Investment Corp.



Source: SK Hynix, Shinhan Investment Corp.

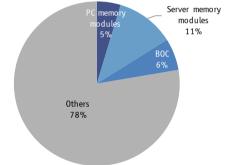
Sales breakdown											
(bn KRW, %)	1Q20	2020	3Q20	4Q20	1021	2Q21F	3Q21F	4Q21F	2020	2021F	2022F
Sales	290.2	321.8	310.6	278.6	283.1	305.6	304.0	309.0	1,201.4	1,201.7	1,305.7
OP	13.7	30.7	30.7	14.7	15.3	30.5	31.6	32.7	89.7	110.2	131.5
OPM (%)	4.7	9.5	9.9	5.3	5.4	10.0	10.4	10.6	7.5	9.2	10.1
Parent sales	252.0	279.9	272.3	243.7	242.5	262.6	258.3	259.9	1,047.9	1,023.3	1,117.7
Parent OP	13.4	30.3	30.2	24.2	13.8	28.5	28.5	28.5	98.2	99.4	119.2
OPM (%)	5.3	10.8	11.1	9.9	5.7	10.8	11.1	11.0	9.4	9.7	10.7
Subsidiary sales	38.2	41.9	38.3	34.9	40.6	43.0	45.7	49.1	153.3	178.4	188.0
Subsidiary OP	0.2	0.4	0.4	0.3	1.5	2.0	3.1	4.2	1.3	10.8	12.3
OPM (%)	0.6	1.0	1.0	0.9	3.7	4.7	6.8	8.6	0.9	6.1	6.5
Sales by product	290.2	321.8	310.6	278.6	283.1	305.6	304.0	309.0	1,201.2	1,201.7	1,305.7
Module PCB	87.7	94.8	92.9	64.2	60.7	69.2	77.4	61.8	339.6	269.1	296.3
Package substrate	200.5	224.4	215.0	212.4	221.0	234.2	224.5	245.4	852.3	925.1	1,001.6
Others	2.0	2.6	2.7	2.0	1.4	2.2	2.1	1.9	9.2	7.5	7.8
Sales share by product	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Module PCB	30.2	29.5	29.9	23.0	21.4	22.6	25.5	20.0	28.3	22.4	22.7
Package substrate	69.1	69.7	69.2	76.2	78.1	76.7	73.8	79.4	71.0	77.0	76.7
Others	0.7	8.0	0.9	0.7	0.5	0.7	0.7	0.6	0.8	0.6	0.6
MSAP sales share	51.6	51.0	52.2	64.0	61.8	59.9	60.8	68.4	54.5	62.8	63.1
Parent	46.0	46.1	46.7	59.0	56.5	53.6	54.6	63.3	49.2	57.0	57.4
Subsidiary	89.0	84.0	91.1	99.1	93.6	98.8	95.8	95.7	90.5	96.0	96.8
Sales share by application	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Mobile	43.6	42.3	40.6	48.3	51.1	50.0	48.7	54.3	43.6	51.0	50.8
PC	27.9	25.0	24.5	25.0	25.8	25.9	25.6	23.1	25.6	25.1	24.8
Server	19.0	17.3	16.5	9.9	10.4	10.9	11.7	8.2	15.8	10.3	11.3
Graphic card	7.0	12.2	12.1	12.2	10.1	9.7	10.4	10.7	10.9	10.2	9.6
Others	2.6	3.2	6.3	4.6	2.6	3.5	3.6	3.7	4.1	3.4	3.5

Source: Company data, Shinhan Investment Corp.



Source: Company data, Shinhan Investment Corp.

## Sales share of DDR5 related products



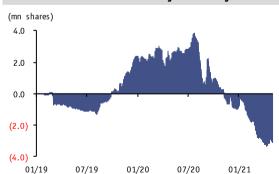
Source: Shinhan Investment Corp.

### Non-memory sales share trend



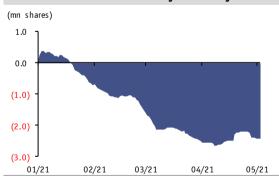
Source: Shinhan Investment Corp.

#### Institutional cumulative net buy since early 2019



Source: QuantiWise, Shinhan Investment Corp.

#### Institutional cumulative net buy since early 2021



Source: QuantiWise, Shinhan Investment Corp.

### Statement of financial position

Year to December (bn KRW)	2019	2020	2021F	2022F	2023F
Total assets	839.9	779.8	848.2	942.7	1,059.8
Current assets	254.2	198.8	266.9	365.8	486.7
Cash and equivalents	9.7	17.1	65.6	144.8	248.0
Accounts receivable	78.9	47.4	52.6	57.7	62.3
Inventories	147.1	123.8	137.3	150.6	162.7
Non-current assets	585.8	581.0	581.3	576.9	573.1
Tangible assets	513.6	512.5	512.5	507.8	503.7
Intangible assets	24.7	22.1	21.9	21.7	21.5
Investment assets	2.1	4.5	5.0	5.4	5.8
Other financial assets	0.0	0.0	0.0	0.0	0.0
Total liabilities	678.4	491.5	493.2	499.7	517.8
Current liabilities	551.7	350.1	346.1	352.0	370.4
Short-term borrowings	171.9	37.5	17.5	7.5	2.5
Accounts payable	79.9	70.5	78.1	85.7	92.6
Current portion of long-term debt	115.7	49.6	39.6	29.6	29.6
Non-current liabilities	126.7	141.4	147.1	147.7	147.4
Bonds	23.9	1.4	1.4	1.4	1.4
Long-term borrowings	35.0	41.4	36.4	26.4	16.4
Other financial liabilities	0.0	0.0	0.0	0.0	0.0
Total shareholders' equity	161.5	288.3	355.0	443.0	542.0
Capital stock	12.2	17.1	17.1	17.1	17.1
Capital surplus	49.7	118.4	118.4	118.4	118.4
Other capital	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)
Accumulated other comprehensive income	(3.1)	(2.0)	(2.0)	(2.0)	(2.0)
Retained earnings	103.9	154.5	220.8	308.2	406.7
Controlling interest equity	162.5	287.9	354.2	441.7	540.1
Non-controlling interest equity	(1.0)	0.4	0.8	1.3	1.9
*Total debt	347.7	160.6	126.5	97.3	83.1
*Net debt (cash)	336.0	143.5	60.9	(47.5)	(164.9)

Year to December (bn KRW)	2019	2020	2021F	2022F	2023F
Sales	1,000.2	1,201.4	1,201.7	1,305.7	1,391.0
Growth (%)	(0.7)	20.1	0.0	8.7	6.5
COGS	912.2	1,005.0	1,003.0	1,083.4	1,157.5
Gross profit	88.0	196.4	198.7	222.3	233.5
GPM (%)	8.8	16.3	16.5	17.0	16.8
SG&A	105.9	106.7	88.5	90.8	87.8
Operating profit	(17.9)	89.7	110.2	131.5	145.7
Growth (%)	TR	TB	22.8	19.3	10.8
OPM (%)	(1.8)	7.5	9.2	10.1	10.5
Non-operating profit	(24.5)	(14.9)	(15.3)	(8.6)	(7.5)
Financial profit	(13.9)	(15.1)	(6.3)	(5.6)	(3.5)
Other non-operating profit	(10.6)	0.3	(9.0)	(3.0)	(4.0)
Equity method gain (loss)	0.0	0.0	0.0	0.0	0.0
Pre-tax profit	(42.4)	74.9	95.0	122.8	138.2
Income tax	(3.0)	18.4	17.2	22.1	24.9
Continuing operations	(39.4)	56.5	77.8	100.7	113.3
Discontinued operations	0.0	0.0	0.0	0.0	0.0
Net profit	(39.4)	56.5	77.8	100.7	113.3
Growth (%)	TR	TB	37.8	29.4	12.5
NPM (%)	(3.9)	4.7	6.5	7.7	8.1
Controlling interest	(36.6)	56.6	77.4	100.2	112.8
Non-controlling interest	(2.8)	(0.1)	0.4	0.5	0.6
Comprehensive income	(40.0)	60.0	77.8	100.7	113.3
Controlling interest	(37.2)	60.6	79.2	102.5	115.3
Non-controlling interest	(2.8)	(0.6)	(1.3)	(1.7)	(2.0)
EBITDA	56.3	165.4	180.5	201.3	214.9
Growth (%)	(43.1)	193.7	9.1	11.6	6.7
EBITDA margin (%)	5.6	13.8	15.0	15.4	15.5

#### Statement of cash flow

Statement of Cash flow										
Year to December (bn KRW)	2019	2020	2021F	2022F	2023F					
Cash flow from operations	(31.6)	215.5	163.5	185.1	195.6					
Net profit	(39.4)	56.5	77.8	100.7	113.3					
Depreciation expense	72.3	73.9	70.0	69.7	69.0					
Amortization expense	2.0	1.7	0.2	0.2	0.2					
FX translation loss (gain)	(3.3)	(0.1)	0.0	0.0	0.0					
Asset disposal loss (gain)	(0.7)	(0.9)	0.0	0.0	0.0					
Equity method loss (gain)	0.0	0.0	0.0	0.0	0.0					
Change in working capital	(74.5)	50.5	15.5	14.5	13.0					
(Payment of income tax)	(10.7)	(6.0)	(17.2)	(22.1)	(24.9)					
Others	22.7	39.9	17.2	22.1	25.0					
Cash flow from investments	(73.7)	(82.9)	(70.5)	(65.5)	(65.4)					
Increase in tangible assets	(75.0)	(86.0)	(70.0)	(65.0)	(65.0)					
Decrease in tangible assets	2.2	3.9	0.0	0.0	0.0					
Change in intangible assets	(0.6)	(0.0)	0.0	0.0	0.0					
Change in investment assets	0.0	0.0	(0.5)	(0.5)	(0.4)					
Others	(0.3)	(0.8)	0.0	0.0	(0.0)					
Free cash flow	(88.1)	87.5	96.0	118.1	128.6					
Cash flow from financing	87.1	(124.9)	(44.6)	(40.3)	(27.0)					
Change in borrowings	112.7	(185.5)	(34.2)	(29.2)	(14.2)					
Change in treasury stock	0.0	0.0	0.0	0.0	0.0					
Dividends	(3.9)	(3.7)	(10.4)	(11.1)	(12.7)					
Others	(21.7)	64.3	0.0	0.0	(0.1)					
Other cash flow	0.0	0.0	(0.0)	0.0	(0.0)					
Change in consolidated scope	0.0	0.0	0.0	0.0	0.0					
Change in FX rates	0.7	(0.4)	0.0	0.0	0.0					
Change in total cash	(17.5)	7.4	48.4	79.3	103.1					
Beginning cash	27.3	9.7	17.1	65.5	144.8					
Ending cash	9.7	17.1	65.5	144.8	248.0					

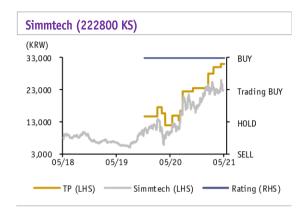
Source: Company data, Shinhan Investment Corp.

## **Key ratios**

Year to December	2019	2020	2021F	2022F	2023F
EPS (KRW)	(1,600)	1,932	2,389	3,093	3,481
EPS of controlling interest (KRW)	(1,486)	1,935	2,378	3,078	3,463
BPS (KRW)	6,636	8,853	10,900	13,602	16,643
BPS of controlling interest (KRW)	6,676	8,840	10,876	13,562	16,585
DPS (KRW)	152	320	350	400	450
PER (x)	(7.4)	11.8	9.5	7.4	6.5
PER of controlling interest (x)	(7.9)	11.8	9.6	7.4	6.6
PBR (x)	1.8	2.6	2.1	1.7	1.4
PBR of controlling interest (x)	1.8	2.6	2.1	1.7	1.4
EV/EBITDA (x)	11.0	5.3	4.4	3.4	2.6
Dividend payout ratio (%)	(10.1)	18.4	14.4	12.7	12.7
Dividend yield (%)	1.3	1.4	1.5	1.8	2.0
Profitability					
EBITDA margin (%)	5.6	13.8	15.0	15.4	15.5
OPM (%)	(1.8)	7.5	9.2	10.1	10.5
NPM (%)	(3.9)	4.7	6.5	7.7	8.1
ROA (%)	(4.8)	7.0	9.6	11.2	11.3
ROE (%)	(19.5)	25.1	24.1	25.2	23.0
ROIC (%)	(5.1)	14.0	18.8	22.8	25.8
Stability					
Debt to equity ratio (%)	420.0	170.5	138.9	112.8	95.5
Net debt ratio (%)	208.0	49.8	17.2	(10.7)	(30.4)
Cash ratio (%)	1.8	4.9	18.9	41.1	66.9
Interest coverage ratio (x)	(1.3)	8.3	17.4	20.8	29.3
Activity (%)					
Working capital turnover (times)	(17.9)	(33.9)	(22.5)	(22.2)	(21.7)
Inventory turnover (days)	55.3	41.2	39.6	40.2	41.1
Receivable turnover (days)	24.8	19.2	15.2	15.4	15.7
Source: Company data Shinh	an Invoctm	ont Corn			

Source: Company data, Shinhan Investment Corp.

## Target price & rating history



Date	Rating	Target price	Target price gap (%)		
		(KRW)	Average	Max/Min	
2019.11.15	BUY	14,747	(25.0)	(9.0)	
2020.02.10	BUY	17,601	(31.5)	(21.4)	
2020.03.11	BUY	15,698	(50.0)	(39.9)	
2020.04.03	BUY	12,000	(19.5)	(2.1)	
2020.05.21	BUY	15,000	(23.6)	(17.0)	
2020.07.03	BUY	13,500	(12.3)	(5.9)	
2020.07.14	BUY	16,500	(5.5)	(1.2)	
2020.07.30	BUY	22,500	(15.3)	(4.0)	
2020.10.08	BUY	23,500	(16.1)	2.3	
2021.01.19	BUY	28,000	(15.6)	(8.9)	
2021.02.24	BUY	30,000	(24.7)	(20.7)	
2021.04.15	BUY	31,000	-	-	

Note: Calculation of target price gap based on past 6 months

## Rating Distribution - SHIC Universe (as of 30 April 2021)

BUY (I	BUY)	94.09%	Trading BUY (HOLD)	1.82%	HOLD (HOLD)	4.09%	SELL (SELL)	0.00%
--------	------	--------	--------------------	-------	-------------	-------	-------------	-------

### Rating Distribution - SHIC Investment Banking Clients (as of 30 April 2021)

BUY (B	JY) 100.00%	Trading BUY (HOLD)	0.00%	HOLD (HOLD)	0.00%	SELL (SELL)	0.00%
ייט ויטע	100.0070	ridding bot (riolb)	0.0070	HOLD (HOLD)	0.0070	JLLL (JLLL)	0.0070

#### F SHIC Ratings (as of 1 April 2017)

#### Stock

- BUY: Expected 6-month gain of 10% or more
- Trading BUY: Expected 6-month gain of 10% to loss of 10%
- HOLD: Expected 6-month loss of 10% to 20%
- SELL: Expected 6-month loss of 20% or more

#### Sector

- OVERWEIGHT: Based on market cap, largest share of sector stocks under coverage is rated BUY
- NEUTRAL: Based on market cap, largest share of sector stocks under coverage is rated Trading BUY or HOLD
- ◆ UNDERWEIGHT: Based on market cap, largest share of sector stocks under coverage is rated SELL

## **Compliance & Disclosure Notice**

#### Analyst Certification

The following analysts hereby certify that their views about the companies and securities discussed in this report are accurately expressed and that they have not received and will not receive direct or indirect compensation in exchange for expressing specific recommendations or views in this report: HyungWou Park, YeongMin Ko

#### Important Disclosures & Disclaimers

- Shinhan Investment Corp. or one of its affiliates has not managed or co-managed a public offering of securities for the companies mentioned in this report in the past 12 months.
- As of the date of publication, Shinhan Investment Corp. does not beneficially own 1% or more of any class of common equity securities of the following companies mentioned in this
  report: Simmtech
- During the last 12 months, the companies mentioned in this report were not an investment banking client of Shinhan Investment Corp. and/or one or more of its affiliates.
- Shinhan Investment Corp. or one of its affiliates has not received compensation for investment banking services from such companies in the past 12 months.
- Shinhan Investment Corp. or one of its affiliates does not expect to receive or intends to seek compensation for investment banking services from such companies or one of their affiliates in the next three months.
- Shinhan Investment Corp. or one of its affiliates, and/or their respective officers, directors or employees may have interests, or long or short positions, and may at any time make purchases or sales as a principal or agent of the securities of the companies mentioned in this report.
- As of the date of publication, research analysts responsible for this report and members of their households do not have any financial interest in the debt or equity securities of the companies mentioned in this report.
- Research analysts responsible for this report receive compensation based upon, among other factors, the overall profitability of Shinhan Investment Corp., including profits derived from investment banking. The analysts responsible for this report may also receive compensation based upon, among other factors, the overall profitability of sales and trading businesses relating to the class of securities or financial instruments for which such analysts are responsible.
- All opinions and estimates regarding the companies and their securities are accurate representations of the research analysts' judgments, and may differ from actual results.
- This report is intended to provide information to assist investment decisions only, and should not be used or construed as an offer or a solicitation of an offer to buy or sell any securities. The information herein has been obtained from sources deemed reliable, but such information has not been independently verified and no guarantee, representation or warranty, expressed or implied, is made as to its accuracy, completeness or correctness. Shinhan Investment Corp. makes a best effort but does not guarantee the accuracy, completeness or correctness of information and opinions translated into English from original Korean language materials. Shinhan Investment Corp. accepts no liability whatsoever for any direct, indirect and/or consequential loss arising from any use of this material or its contents. Stock selection and final investment decisions should be made at the investor's own and sole discretion.
- This report is distributed to our customers only, and any unauthorized use, duplication, or redistribution of this report is strictly prohibited.
- Investing in any Korean securities or related financial instruments discussed in this research report may present certain risks. The securities of Korean issuers may not be registered with, or be subject to the regulations of, the US Securities and Exchange Commission. Information on Korean securities or related financial instruments may be limited. Foreign companies may not be subject to audit and reporting standards and regulatory requirements comparable to those in effect within the US. The value of any investment or income from any securities or related financial instruments discussed in this research report denominated in currencies other than the Korean won is subject to exchange rate fluctuations that may have a positive or adverse effect on the value of or income from such securities or related financial instruments.

#### Distribution

- United States: This report is distributed in the US by Shinhan Investment America, Inc., a member of FINRA/SIPC, and is only intended for major US institutional investors as defined in Rule 15a-6(a)(2) of the US Securities Exchange Act of 1934. All US persons that receive this document by their acceptance thereof represent and warrant that they are major US institutional investors and have not received this report under any express or implied understanding that they will direct commission income to Shinhan Investment Corp. or its affiliates. Pursuant to Rule 15a-6(a)(3), any US recipient of this document wishing to effect a transaction in any securities discussed herein should contact and place orders with Shinhan Investment America, Inc., which accepts responsibility for the contents of this report in the US. The securities described herein may not have been registered under the US Securities Act of 1933, as amended, and, in such case, may not be offered or sold in the US or to US persons unless they have been registered or are in compliance with an exemption from registration requirements.
- All Other Jurisdictions: Customers in all other countries who wish to effect a transaction in any securities referenced in this report should contact Shinhan Investment Corp. or its affiliates only if distribution to or use by such customer of this report would not violate applicable laws and regulations and not subject Shinhan Investment Corp. and its affiliates to any registration or licensing requirement within such jurisdiction.
- Shinhan Investment Corp. policies regarding conflicts of interest are available at: http://file.shinhaninvest.com/filedoc/clause/conflictofinterest.pdf