

招商银行全资附属机模 A Wholly Owned Subsidiary Of China Merchants Bank

WH Group (288 HK)

US hog price boosted by German pork export ban

China, Korea and Japan banned German's pork export. We expect certain orders would switch to US and this would benefit WH's US businesses. Since 1H20 results were announced on 11 Aug, share price has dropped 8% but US market fundamentals have been recovering and US hog price has risen 18%. Furthermore, market cap of WH's Shuanghui equity interests is greater than WH's market cap, implying Smithfield is free. Maintain Buy on undemanding valuation.

- What's new. US lean hog future price +8% in two successive trading days. Germany's agriculture ministry said pork exports to China and some other non-EU countries have stopped after a case of ASF was confirmed. China, Korea and Japan had banned import of German pork products.
- Germany was the biggest pork producer in EU in 2019. In 2019, Germany exported a total of 977k tonnes of pork meat and offal products to China, Korea and Japan, representing around 10.5% market share of global pork export trade. In 1H20, China, Korea and Japan were top 3 pork meat and offal products exporting countries for Germany, representing 66%, 9% and 3% of its total export volume (571.4k tonnes), respectively. The ban of Germany pork export would benefit other major pork exporting countries like Spain, US and Brazil. If 25% of such volume (244.2k tonnes) is shifted to US, this represents 2%/7% of US pork production/export volume in 2020E.
- US market is recovering. (1) Hog production: US hog price has rebounded 18% since 1H20 results were reported (Figure 3). (2) Fresh pork: Utilization rate of hog processing recovers to around 90% (vs 85% in Aug). 3Q20-to-date gross profit spread has been expanded YoY (Figure 17). (3) Packaged meat: sales volume is expected to recover mildly in 3Q20E. For 3Q20E epidemic-related costs, it would be notably less than 2Q20 because salary payment to staff infected and quarantined, inspection and equipment expenses and donation expenses would be reduced QoQ.
- Maintain Buy. German pork export ban could boost US hog and pork prices. US market contributed 49% and 30% of WH's total revenue and segment profit, respectively, in 1H20. The increase of hog price is favorable to hog production profitability. Though most of US profit came from packaged meat segment (88% of US profit in 1H20), the increase of hog price would increase hog production profitability, but would not hurt margin of packaged meat segment because there is price adjustment mechanism when hog price fluctuates. Our SOTP-based TP HK\$8.20 represents 14.0x FY20E P/E. Catalysts: severe AFS outbreak in Germany and US economy fully reopens.

Earnings Summary

FY18A	FY19A	FY20E	FY21E	FY22E
22,605	24,103	25,440	26,795	27,751
1,047	1,380	1,108	1,480	1,625
1,046	1,378	1,108	1,480	1,625
0.071	0.094	0.075	0.101	0.110
(4.9)	31.5	(19.7)	33.6	9.8
na	na	0.093	0.104	0.111
11.8	9.0	11.3	8.4	7.7
1.6	1.4	1.4	1.2	1.1
3.0	4.8	3.8	5.1	5.6
13.8	16.8	12.4	15.3	15.2
	22,605 1,047 1,046 0.071 (4.9) na 11.8 1.6 3.0	22,605 24,103 1,047 1,380 1,046 1,378 0.071 0.094 (4.9) 31.5 na na 11.8 9.0 1.6 1.4 3.0 4.8	22,605 24,103 25,440 1,047 1,380 1,108 1,046 1,378 1,108 0.071 0.094 0.075 (4.9) 31.5 (19.7) na na 0.093 11.8 9.0 11.3 1.6 1.4 1.4 3.0 4.8 3.8	22,605 24,103 25,440 26,795 1,047 1,380 1,108 1,480 1,046 1,378 1,108 1,480 0.071 0.094 0.075 0.101 (4.9) 31.5 (19.7) 33.6 na na 0.093 0.104 11.8 9.0 11.3 8.4 1.6 1.4 1.4 1.2 3.0 4.8 3.8 5.1

Source: Company data, Bloomberg, CMBIS estimates

BUY (Maintain)

Target Price HK\$8.20 (Previous TP HK\$8.20) Up/Downside +24% Current Price HK\$6.62

China Staples Sector

Albert Yip, CFA (852) 3900 0838 albertyip@cmbi.com.hk

Stock Data

Mkt Cap (HK\$ mn)	97,566
Avg 3 mths t/o (HK\$ mn)	281.85
52w High/Low (HK\$)	8.90/ 5.92
Total Issued Shares (mn)	14,720.8
Source: Bloomborg	

Shareholding Structure

Rise Grand	35.83%
Source: HKEx	

Share Performance

	Absolute	Relative
1-mth	-8.3%	-6.9%
3-mth	-2.5%	-2.6%
6-mth	-15.6%	-13.1%

Source: Bloomberg

12-mth Price Performance



Source: Bloomberg

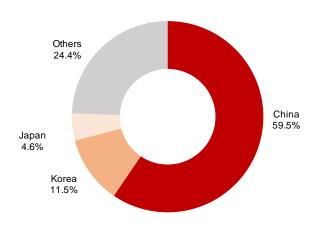
Auditor: EY

Related Reports

- "WH Group 1H20 results below on epidemic-related costs" – 12 Aug 2020
- 2. "WH Group Maintain Buy on undemanding valuation" 13 Jul 2020
- "WH Group 1Q20 results on track" 29 Apr 2020
- "WH Group FY19 results beat; 1Q20E NP growth still good" – 25 Mar 2020
- "WH Group 4Q19 momentum continued and a positive 2020" – 13 Jan 2020

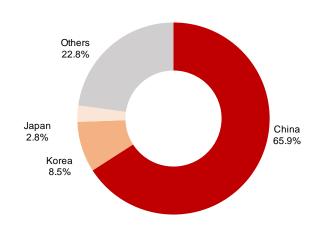


Figure 1: Germany's frozen and fresh meat and offal products export volume by country in 2019



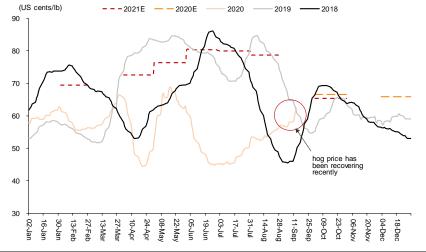
Source: European Commission

Figure 2: Germany's pork export was even more dependent on these three countries in 1H20



Source: European Commission

Figure 3: German pork ban accelerated the recovery of US hog price



Source: Bloomberg, CMBIS



Figure 4: CMBIS estimates vs consensus

		CMBIS		(Consensus			Diff (%)	
US\$ mn	FY20E	FY21E	FY22E	FY20E	FY21E	FY22E	FY20E	FY21E	FY22E
Revenue	25,440	26,795	27,751	25,829	26,613	27,072	-2%	1%	3%
Gross Profit	5,075	5,410	5,554	5,257	5,540	5,669	-3%	-2%	-2%
Operating Profit	1,874	2,374	2,565	2,078	2,283	2,408	-10%	4%	7%
Net profit	1,108	1,480	1,625	1,348	1,537	1,621	-18%	-4%	0%
Gross Margin	20.0%	20.2%	20.0%	20.4%	20.8%	20.9%	-0.4ppt	-0.6ppt	-0.9ppt
Operating Margin	7.4%	8.9%	9.2%	8.0%	8.6%	8.9%	-0.6ppt	+0.3ppt	+0.3ppt
Net Margin	4.4%	5.5%	5.9%	5.2%	5.8%	6.0%	-0.8ppt	-0.3ppt	-0.1ppt

Source: Bloomberg, CMBIS estimates

Figure 5: SOTP-based valuation

Segment	FY20 P/E	FY20E net profit (US\$mn)	Valuation (US\$mn)	Remarks
US & Europe businesses	10.0	438.9	4,389	10x FY20E P/E
China business	16.6	668.6	11,099	30% discount on HK listed peers' average 23.7x FY20E P/E
Total			15,488	
Value per share (HK\$)			8.2	
Implied FY20E P/E			14.0	
	Price (RMB)	Issue shares (mn)	Value (HK\$mn)	
Market cap of WH	, ,		97,510	
Mkt value of Shaunghui stakes Implied Smithfield value	53.1	3,319.3	144,175 (46,665)	based on 73.41% equity stakes and 11 Sep closing price

Source: Company data, Bloomberg, CMBIS estimates

Figure 6: P/E band



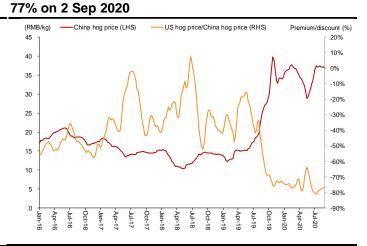
Source: Bloomberg, Company data, CMBIS estimates



Figure 7: The discount of US pork carcass price to China's was 74% on 6 Sep 2020





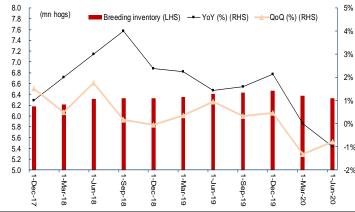


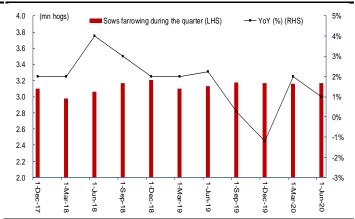
Source: Bloomberg, CMBIS

Source: Bloomberg, CMBIS

Figure 9: Growth of US breeding hog inventory was down 1% in the quarter ended 1 Jun 2020

Figure 10: Number of sows farrowing during the quarter ended 1 Jun 2020 up 1%



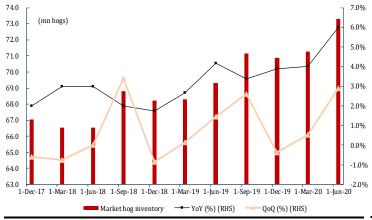


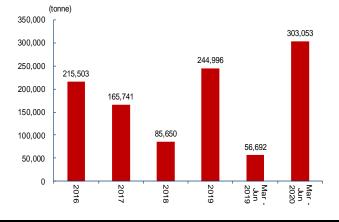
Source: USDA, CMBIS

Source: USDA, CMBIS

the guarter ended 1 Jun 2020 due to epidemic

Figure 11: Growth of US market hog inventory was 6% in Figure 12: China's pork import vol. from US between Mar and Jun 2020 jumped by more than four times YoY





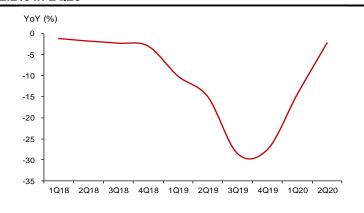
Source: USDA, CMBIS

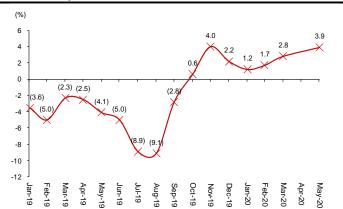
Source: WIND, CMBIS



Figure 13: The YoY decline of hog inventory narrowed to 2.2% in 2Q20

Figure 14: Sow balance MoM growth accelerated to 3.9% in May 2020

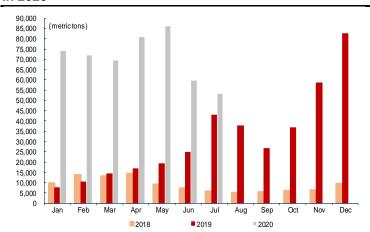




Source: WIND, CMBIS

Source: WIND, CMBIS

Figure 15: US pork export volume to China kept going up Figure 16: US pork price chart in 2020

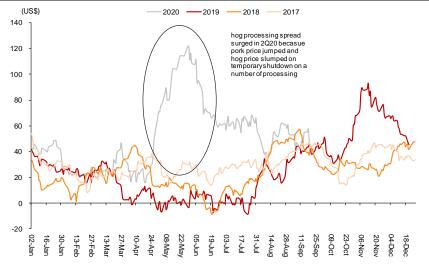




Source: US meat export federation

Source: Bloomberg, CMBIS estimates

Figure 17: 3Q20-to-date US pork packers margins has improved YoY



Source: Bloomberg, CMBIS



Figure 18: Major assumptions for US market

(US\$mn)	FY18	FY19	FY20E	FY21E	FY22E
Packaged meat segment					
External revenue	7,773	7,814	7,385	7,924	8,084
growth %	-0.4%	0.5%	-5.5%	7.3%	2.0%
Sales volume (mn metric tons)	1.46	1.45	1.39	1.46	1.47
growth %	0.9%	-0.5%	-4.5%	5.2%	1.0%
ASP (US\$/ton)	5,324	5,378	5,324	5,431	5,485
growth %	-1.3%	1.0%	-1.0%	2.0%	1.0%
OP margin	10.1%	10.8%	8.2%	11.6%	12.0%
Fresh pork segment					
External revenue	4,790	4,467	4,423	4,740	4,720
growth %	-3.4%	-6.7%	-1.0%	7.2%	-0.4%
Hog processed (mn heads)	33.95	34.51	33.13	35.92	36.63
growth %	-1.4%	1.7%	-4.0%	8.4%	2.0%
OP/head (US\$)	1.4	4.3	4.5	5.0	5.0
Hog production segment					
External revenue	619	877	912	959	948
growth %	21.4%	41.7%	4.0%	5.1%	-1.1%
Hog produced (mn heads)	16.47	17.68	18.03	18.40	18.76
growth %	0.5%	7.4%	2.0%	2.0%	2.0%
OP/head (US\$)	(8.9)	4.7	(6.0)	1.0	(1.0)
Total external revenue	13,182	13,158	12,720	13,622	13,752
Packaged meat	7,773	7,814	7,385	7,924	8,084
Fresh pork	4,790	4,467	4,423	4,740	4,720
Hog production	619	877	912	959	948
Segment profit	615	932	506	956	965
growth %	-33.4%	51.5%	-45.7%	88.9%	1.0%
Packaged meat	785	847	606	920	970
Fresh pork	48	150	149	180	183
Hog production	(147)	83	(108)	18	(19)
Others	(71)	(148)	(141)	(162)	(170)
Segment profit margin	4.7%	7.1%	4.0%	7.0%	7.0%

Source: Company data, CMBIS estimates



Figure 19: Major assumptions for China market

(US\$mn)	FY18	FY19	FY20E	FY21E	FY22E
Packaged meat segment				- · - · -	
External revenue	3,458	3,615	4,160	4,327	4,502
growth %	4.4%	4.5%	15.1%	4.0%	4.0%
Sales volume (mn metric tons)	1.60	1.60	1.60	1.62	1.63
growth %	1.1%	0.0%	0.0%	1.0%	1.0%
ASP (Rmb/ton)	14,303	15,673	18,180	18,726	19,287
growth %	1.3%	9.6%	16.0%	3.0%	3.0%
OP margin %	20.6%	18.6%	21.2%	21.6%	22.0%
Fresh pork segment					
External revenue	3,584	4,725	5,343	5,210	5,535
growth %	-7.8%	31.8%	13.1%	-2.5%	6.3%
Hog processed (mn heads)	16.31	13.20	7.92	11.88	14.85
growth %	14.3%	-19.0%	-40.0%	50.0%	25.0%
OP/head (Rmb)	72.7	137.8	135.0	60.0	50.0
C T , TT C T T T T T T T T T T T T T T T					
Hog production segment					
External revenue	8	2	1	2	2
growth %	-27.3%	-75.0%	-40.5%	35.0%	30.0%
Hog produced (mn heads)	0.29	0.13	0.07	0.10	0.13
growth %	-6.1%	-54.9%	-50.0%	50.0%	30.0%
OP/head (Rmb)	113.0	-683.8	-1200.0	400.0	300.0
Total external revenue	7,328	8,756	10,120	10,216	10,785
Packaged meat	3,458	3,615	4,160	4,327	4,502
Fresh pork	3,584	4,725	5,343	5,210	5,535
Hog production	8	2	1	2	2
Others	278	414	616	678	746
Segment profit	922	957	1,081	1,108	1,178
growth %	75.6%	3.8%	12.9%	2.5%	6.4%
Packaged meat	712	673	882	935	990
Fresh pork	179	262	153	102	106
Hog production	5	(13)	(11)	6	6
Others	26	35	57	66	76
Segment profit margin	12.6%	10.9%	10.7%	10.8%	10.9%

Source: Company data, CMBIS estimates



Figure 20: Major assumptions for Europe market

(US\$mn)	FY18	FY19	FY20E	FY21E	FY22E
Packaged meat segment					
External revenue	916	902	1,020	1,154	1,260
growth %	39.2%	-1.5%	13.1%	13.1%	9.1%
Sales volume (mn metric tons)	0.28	0.28	0.29	0.31	0.32
growth %	17.9%	-1.5%	5.0%	5.0%	5.0%
ASP (EUR/ton)	2,738	2,895	3,040	3,131	3,225
growth %	13.2%	5.7%	5.0%	3.0%	3.0%
OP margin	5.5%	6.0%	6.6%	7.2%	9.3%
Fresh pork segment					
External revenue	762	886	1,139	1,283	1,392
growth %	12.6%	16.3%	28.6%	12.6%	8.6%
Hog processed (mn heads)	5.83	6.08	6.69	7.36	7.87
growth %	14.6%	4.4%	10.0%	10.0%	7.0%
OP/head (EUR)	2.8	-1.3	-2.0	2.0	2.0
Hog production segment					
External revenue	61	58	89	148	156
growth %	19.6%	-4.9%	53.9%	65.6%	5.8%
Hog produced (mn heads)	4.17	3.99	3.83	3.95	4.07
growth %	18.0%	-4.3%	-4.0%	3.0%	3.0%
OP/head (EUR)	5.9	21.7	34.0	28.0	20.0
Total external revenue	2,095	2,188	2,601	2,956	3,214
Packaged meat	916	902	1,020	1,154	1,260
Fresh pork	762	886	1,139	1,283	1,392
Hog production	61	58	89	148	156
Others	356	342	352	372	405
Segment profit	113	142	203	239	246
growth %	-16.3%	25.7%	43.2%	17.8%	2.8%
Packaged meat	50	54	68	84	117
Fresh pork	19	(9)	(15)	18	19
Hog production	29	97	149	132	98
Others	15	0	2	7	12
Segment profit margin	5.4%	6.5%	7.8%	8.1%	7.7%

Segment profit margin 5.4%
Source: Company data, CMBIS estimates



Financial Summary

Income statement						Cash flow summary					
YE 31 Dec (US\$ mn)	FY18A	FY19A	FY20E	FY21E	FY22E	YE 31 Dec (US\$ mn)	FY18A	FY19A	FY20E	FY21E	FY22E
Revenue	22,605	24,103	25,440	26,795	27,751	Profit before tax	1,411	2,052	1,705	2,210	2,423
China	7,328	8,756	10,120	10,216	10,785	Depreciation and amortization	441	581	597	609	621
US	13,182	13,158	12,720	13,622	13,752	Change in working capital	(570)	(930)	213	56	(40)
EUR	2,095	2,188	2,601	2,956	3,214	Others	(27)	(240)	(676)	(456)	(523)
Cost of sales	(18,103	(19,209	(20,365	(21,385	(22,197	Net cash from operating	1,255	1,463	1,840	2,419	2,480
Gross profit	4,502	4,894	5,075	5,410	5,554						
						Capex & investments	(811)	(680)	127	(400)	(400)
Other income and gains	98	59	81	90	100	Interest received	6	6	(720)	(640)	(813)
SG&A expenses	(2,871)	(2,870)	(3,282)	(3,126)	(3,089)	Others	(412)	(122)	0	0	0
Operating profit	1,729	2,083	1,874	2,374	2,565	Net cash from investing	(1,217)	(796)	(593)	(1,040)	(1,213)
Finance cost	(115)	(144)	(126)	(125)	(104)	Change of borrowings	4	3	127	(400)	(400)
Other expenses	(74)	(63)	(63)	(63)	(63)	Dividend paid	(795)	(464)	(720)	(640)	(813)
Other gains/(losses)	(21)	53	0	0	0	Proceeds from	9	31	0	0	0
Share of profit of associate	8	4	4	4	5	Others	(8)	(163)	0	0	0
Share of profit of JV	23	13	17	19	20	Financing cash flow	(790)	(593)	(593)	(1,040)	(1,213)
Profit before tax	1,550	1,946	1,705	2,210	2,423						
Income tax	(293)	(336)	(345)	(448)	(491)	Net change in cash	(752)	74	659	802	700
Non-controlling interests	(210)	(230)	(253)	(281)	(306)	Cash at the beginning	1,279	484	552	1,211	2,013
Net profit	1,047	1,380	1,108	1,480	1,625	Exchange difference	(43)	(6)	0	0	0
Adj. net profit	1,046	1,378	1,108	1,480	1,625	Cash at the end	484	552	1,211	2,013	2,712
•						Bank and cash balance	525	552	1,211	2,013	2,712
						Bank overdraft	(41)	0	0	0	0

Balance sheet						Key ratios					
YE 31 Dec (US\$ mn)	FY18A	FY19A	FY20E	FY21E	FY22E	YE 31 Dec	FY18A	FY19A	FY20E	FY21E	FY22E
Non-current assets	9,838	10,575	10,603	10,631	10,629	Sales mix (%)					
PPE	5,300	5,406	5,552	5,686	5,808	China	32.4	36.3	39.8	38.1	38.9
Goodwill	3,581	3,667	3,658	3,649	3,640	US	58.3	54.6	50.0	50.8	49.6
JV/associates	352	347	368	391	416	EUR	9.3	9.1	10.2	11.0	11.6
Others	605	509	509	519	509						
						P&L ratios (%)					
Current assets	5,460	6,707	7,319	8,201	9,068	Gross profit margin	19.9	20.3	20.0	20.2	20.0
Cash and pledged deposits	579	593	1,252	2,054	2,753	Operating profit margin	7.6	8.6	7.4	8.9	9.2
Inventory	2,022	2,903	2,770	2,763	2,868	Net profit margin	4.6	5.7	4.4	5.5	5.9
Trade receivables	1,135	1,047	1,105	1,164	1,205	Adj. net profit margin	4.6	5.7	4.4	5.5	5.9
Others	1,724	2,164	2,192	2,221	2,241	Payout ratio	35.8	43.0	43.0	43.0	43.0
Current liabilities	3,328	3,869	4,140	4,287	4,403	Balance sheet ratios					
Borrowings	860	905	1,010	1,010	1,010	Current ratio (x)	1.6	1.7	1.8	1.9	2.1
Trade payables	977	1,074	1,139	1,196	1,241	Receivables turnover days	17	17	15	15	16
Other payables	1,430	1,686	1,787	1,877	1,948	Payables turnover days	21	19	20	20	20
Others	61	204	204	204	204	Inventory turnover days	40	47	51	47	46
						Asset turnover (x)	1.5	1.4	1.4	1.4	1.4
Non-current liabilities	3,552	3,961	3,690	3,332	2,962	Net gearing ratio (%)	30	30	21	8	(2)
Borrowings	2,259	2,187	2,209	1,809	1,409						
Deferred revenue	695	1,114	821	863	893	Returns (%)					
Others	598	660	660	660	660	Adj. ROAE	13.8	16.8	12.4	15.3	15.2
						Adj. ROAA	8.2	9.9	7.7	9.6	10.0
Minority Interest	672	768	893	1,010	1,140						
Total net assets	8,418	9,452	10,092	11,213	12,331	Per share data					
Shareholders' equity	7,746	8,684	9,199	10,203	11,192	Adj. EPS (US\$)	0.071	0.094	0.075	0.101	0.110
						DPS (HK\$)	0.20	0.32	0.25	0.34	0.37
						BVPS (US\$)	0.53	0.59	0.62	0.69	0.76

Source: Company data, CMBIS estimates



Disclosures & Disclaimers

Analyst Certification

The research analyst who is primary responsible for the content of this research report, in whole or in part, certifies that with respect to the securities or issuer that the analyst covered in this report: (1) all of the views expressed accurately reflect his or her personal views about the subject securities or issuer; and (2) no part of his or her compensation was, is, or will be, directly or indirectly, related to the specific views expressed by that analyst in this report.

Besides, the analyst confirms that neither the analyst nor his/her associates (as defined in the code of conduct issued by The Hong Kong Securities and Futures Commission) (1) have dealt in or traded in the stock(s) covered in this research report within 30 calendar days prior to the date of issue of this report; (2) will deal in or trade in the stock(s) covered in this research report 3 business days after the date of issue of this report; (3) serve as an officer of any of the Hong Kong listed companies covered in this report; and (4) have any financial interests in the Hong Kong listed companies covered in this report.

CMBIS Ratings

BUY
Stock with potential return of over 15% over next 12 months
SELL
Stock with potential return of +15% to -10% over next 12 months
SELL
Stock with potential loss of over 10% over next 12 months

NOT RATED : Stock is not rated by CMBIS

OUTPERFORM : Industry expected to outperform the relevant broad market benchmark over next 12 months

MARKET-PERFORM : Industry expected to perform in-line with the relevant broad market benchmark over next 12 months

UNDERPERFORM : Industry expected to underperform the relevant broad market benchmark over next 12 months

CMB International Securities Limited

Address: 45/F, Champion Tower, 3 Garden Road, Hong Kong, Tel: (852) 3900 0888 Fax: (852) 3900 0800

CMB International Securities Limited ("CMBIS") is a wholly owned subsidiary of CMB International Capital Corporation Limited (a wholly owned subsidiary of China Merchants Bank)

Important Disclosures

There are risks involved in transacting in any securities. The information contained in this report may not be suitable for the purposes of all investors. CMBIS does not provide individually tailored investment advice. This report has been prepared without regard to the individual investment objectives, financial position or special requirements. Past performance has no indication of future performance, and actual events may differ materially from that which is contained in the report. The value of, and returns from, any investments are uncertain and are not guaranteed and may fluctuate as a result of their dependence on the performance of underlying assets or other variable market factors. CMBIS recommends that investors should independently evaluate particular investments and strategies, and encourages investors to consult with a professional financial advisor in order to make their own investment decisions.

This report or any information contained herein, have been prepared by the CMBIS, solely for the purpose of supplying information to the clients of CMBIS or its affiliate(s) to whom it is distributed. This report is not and should not be construed as an offer or solicitation to buy or sell any security or any interest in securities or enter into any transaction. Neither CMBIS nor any of its affiliates, shareholders, agents, consultants, directors, officers or employees shall be liable for any loss, damage or expense whatsoever, whether direct or consequential, incurred in relying on the information contained in this report. Anyone making use of the information contained in this report does so entirely at their own risk.

The information and contents contained in this report are based on the analyses and interpretations of information believed to be publicly available and reliable. CMBIS has exerted every effort in its capacity to ensure, but not to guarantee, their accuracy, completeness, timeliness or correctness. CMBIS provides the information, advices and forecasts on an "AS IS" basis. The information and contents are subject to change without notice. CMBIS may issue other publications having information and/ or conclusions different from this report. These publications reflect different assumption, point-of-view and analytical methods when compiling. CMBIS may make investment decisions or take proprietary positions that are inconsistent with the recommendations or views in this report.

CMBIS may have a position, make markets or act as principal or engage in transactions in securities of companies referred to in this report for itself and/or on behalf of its clients from time to time. Investors should assume that CMBIS does or seeks to have investment banking or other business relationships with the companies in this report. As a result, recipients should be aware that CMBIS may have a conflict of interest that could affect the objectivity of this report and CMBIS will not assume any responsibility in respect thereof. This report is for the use of intended recipients only and this publication, may not be reproduced, reprinted, sold, redistributed or published in whole or in part for any purpose without prior written consent of CMBIS. Additional information on recommended securities is available upon request.

For recipients of this document in the United Kingdom

This report has been provided only to persons (I)falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended from time to time) ("The Order") or (II) are persons falling within Article 49(2) (a) to (d) ("High Net Worth Companies, Unincorporated Associations, etc...) of the Order, and may not be provided to any other person without the prior written consent of CMBIS.

For recipients of this document in the United States

CMBIS is not a registered broker-dealer in the United States. As a result, CMBIS is not subject to U.S. rules regarding the preparation of research reports and the independence of research analysts. The research analyst who is primary responsible for the content of this research report is not registered or qualified as a research analyst with the Financial Industry Regulatory Authority ("FINRA"). The analyst is not subject to applicable restrictions under FINRA Rules intended to ensure that the analyst is not affected by potential conflicts of interest that could bear upon the reliability of the research report. This report is intended for distribution in the United States solely to "major US institutional investors", as defined in Rule 15a-6 under the US, Securities Exchange Act of 1934, as amended, and may not be furnished to any other person in the United States. Each major US institutional investor that receives a copy of this report by its acceptance hereof represents and agrees that it shall not distribute or provide this report to any other person. Any U.S. recipient of this report wishing to effect any transaction to buy or sell securities based on the information provided in this report should do so only through a U.S.-registered broker-dealer.

For recipients of this document in Singapore

This report is distributed in Singapore by CMBI (Singapore) Pte. Limited (CMBISG) (Company Regn. No. 201731928D), an Exempt Financial Adviser as defined in the Financial Advisers Act (Cap. 110) of Singapore and regulated by the Monetary Authority of Singapore. CMBISG may distribute reports produced by its respective foreign entities, affiliates or other foreign research houses pursuant to an arrangement under Regulation 32C of the Financial Advisers Regulations. Where the report is distributed in Singapore to a person who is not an Accredited Investor, Expert Investor or an Institutional Investor, as defined in the Securities and Futures Act (Cap. 289) of Singapore, CMBISG accepts legal responsibility for the contents of the report to such persons only to the extent required by law. Singapore recipients should contact CMBISG at +65 6350 4400 for matters arising from, or in connection with the report.