Deutsche Bank Markets Research

Rating Buy

Asia Hong Kong

Technology Hardware & Equipment Reuters 0698.HK

Company

Bloomberg 698 HK

Tongda Group

Exchange Ticker HSI 0698

Strong 2H14 results and no slow season in 2015

Continues to impress

As highlighted in earlier Tongda note, overall smartphone demand has been cooling off in China since late 3Q14. However, Tongda still managed to deliver strong 2H14 results, with gross margin surprising on the upside. It also released positive 1H15 guidance, propelled by continued order allocation gains with key clients (Huawei/Xiaomi) and rising contribution from metal casing orders. Retain Buy rating.

Solid 2H14 results on strong gross margin

Tongda reported 2H14 operating profit of HK\$397m (+43% YoY; +47% HoH) and EPS of HK\$0.06 (+30% YoY; +99% HoH) on sales of HK\$2.69bn (+39% YoY; 28% HoH). Operating profit beat our estimate by 4% on strong gross margin. Gross margin improved by 1.6pt HoH to 24.6% (vs. DBe of 23.4%) due to better production scale and improved product mix. Sales contribution from metal casings increased from low single digit in 1H14 to ~10% in 2H14. Metal casings generate above-company-average gross margin of 25-30%.

1H15 outlook - keep busy in slow season

1H tends to be the industry's slow season, but Tongda expects 1H15 smartphone casings sales to increase mildly HoH, driven by metal casing orders from Huawei/Oppo and plastic casing orders from Xiaomi (both Mi series and RedMi series). Tongda is a key metal casing supplier of Huawei (which accounts for 40%+ of Tongda's smartphone casings sales), and currently supplies 3 models to this key client. Tongda expects Huawei to launch more metal casing phones in 2015. Oppo is a relatively new client. Production of metal casings for Oppo smartphone (Oppo U3 and R1x, in our view) just ramped up in 1Q15 and might keep trending up in coming quarters.

Valuation and risks

We increase our EPS forecasts by 5-6%, and accordingly raise our target price from HKD1.45 to HKD1.53 (still based on 12x 2015E EPS). 12x FW P/E implies 0.46x PEG, in line with its historical trading average. Risks include slower metal casing adoption and price competition.

Forecasts And Ratios					
Year End Dec 31	2012A	2013A	2014E	2015E	2016E
Sales (HKDm)	3,408.1	3,627.1	4,791.3	5,801.4	7,040.7
Reported NPAT (HKDm)	302.4	363.1	499.7	687.6	866.6
DB EPS FD(HKD)	0.06	0.07	0.09	0.13	0.16
OLD DB EPS FD(HKD)	0.06	0.07	0.09	0.12	0.15
% Change	0.0%	0.0%	5.2%	5.6%	4.6%
DB EPS growth (%)	18.7	17.2	24.0	37.6	26.0
DPS (net) (HKD)	0.02	0.02	0.03	0.04	0.06
ROE (%)	15.3	15.9	16.8	18.3	20.0
Yield (net) (%)	7.6	5.6	2.7	4.0	5.7
PER (x)	4.2	6.0	12.1	8.8	7.0
Source: Deutsche Bank estimates, company data					

¹ DB EPS is fully diluted and excludes non-recurring items

Deutsche Bank AG/Hong Kong

Deutsche Bank does and seeks to do business with companies covered in its research reports. Thus, 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. DISCLOSURES AND ANALYST CERTIFICATIONS ARE LOCATED IN APPENDIX 1. MCI (P) 148/04/2014.



Price at 19 Mar 2015 (HKD)	1.12
Price target - 12mth (HKD)	1.53
52-week range (HKD)	1.32 - 0.77
HANG SENG INDEX	24,120

Birdy Lu

Research Analyst (+886) 2 2192 2822 birdy.lu@db.com

Key changes

, ,			
Price target	1.45 to 1.53	1	5.5%
Sales (FYE)	4,699 to 4,791	1	2.0%
Op prof margin (FYE)	13.9 to 14.6	1	5.3%
Net profit (FYE)	481.4 to 499.7	1	3.8%
Source: Deutsche Bank			

Price/price relative







Model updated:19 March 2015	Fiscal year end 31-Dec	2011	2012	2013	2014E	2015E	2016E
Running the numbers	Financial Summary						
Asia	DB EPS (HKD)	0.05	0.06	0.07	0.09	0.13	0.16
Hong Kong	Reported EPS (HKD) DPS (HKD)	0.05 0.02	0.06 0.02	0.07 0.02	0.09 0.03	0.13 0.04	0.16 0.06
Hardware & Equipment	BVPS (HKD)	0.4	0.4	0.5	0.6	0.7	0.9
	Weighted average shares (m)	4,678	4,742	4,859	5,395	5,395	5,395
Tongda Group	Average market cap (HKDm) Enterprise value (HKDm)	1,312 1,883	1,261 2,026	2,188 3,079	6,042 6,693	6,042 6,725	6,042 6,606
Reuters: 0698.HK Bloomberg: 698 HK	Valuation Metrics	1,000	2,020	0,070	0,000	0,720	0,000
Buy	P/E (DB) (x)	5.2	4.2	6.0	12.1	8.8	7.0
Price (19 Mar 15) HKD 1.12	P/E (Reported) (x) P/BV (x)	5.2 0.47	4.2 0.82	6.0 1.00	12.1 1.72	8.8 1.50	7.0 1.30
Target Price HKD 1.53	FCF Yield (%)	nm	nm	0.0	nm	2.4	6.1
5	Dividend Yield (%)	6.1	7.6	5.6	2.7	4.0	5.7
52 Week range HKD 0.77 - 1.32	EV/Sales (x)	0.6	0.6	0.8	1.4	1.2	0.9
Market Cap (m) HKDm 6,042	EV/EBITDA (x) EV/EBIT (x)	3.9 5.2	3.5 4.5	4.9 6.6	7.6 9.5	6.0 7.6	4.8 5.9
USDm 779		5.2	4.5	0.0	5.5	7.0	0.0
Company Profile	Income Statement (HKDm)	3,147	3,408	3,627	4,791	5,801	7,041
Tongda Group is a leading consumer electronics casing	Sales revenue Gross profit	727	3,408 869	953	1,323	1,650	2,007
manufacturer for a diversified applications including smartphone, notebook, communication facilities, home	EBITDA Depreciation	483 122	587 138	623 155	880 179	1,116 228	1,366 251
appliances, and etc. The company has a diversified	Amortisation	0	0	155	0	228	251
customer mix including both international (HP, Dell, Toshiba, Nokia) and Chinese (Xiaomi, Huawei, ZTE,	EBIT	361	448	468	701	888	1,116
Lenovo, OPPO, TCL, Haier) consumer electronics brands.	Net interest income(expense) Associates/affiliates	-52 0	-47 0	-49 0	-53 0	-45 0	-44
	Exceptionals/extraordinaries	0	0	0	0	0	(
	Other pre-tax income/(expense) Profit before tax	30 338	2 403	-1 418	-9 640	-5 838	5- 1,067
Price Performance	Income tax expense	77	67	46	94	142	192
1.6 -	Minorities Other post-tax income/(expense)	9 0	34 0	9 0	47 0	8 0	8
1.2 M. M.	Net profit	251	302	363	500	688	867
0.8	DB adjustments (including dilution)	0	0	0	0	0	0
0.4	DB Net profit	251	302	363	500	688	867
	Cash Flow (HKDm)						
Mar 13Jun 13Sep 13Dec 13Mar 14Jun 14Sep 14Dec 14	Cash flow from operations Net Capex	124 -174	138 -268	188 -187	351 -616	422 -280	650 -280
Tongda Group HANG SENG INDEX (Rebased)	Free cash flow	-174 -49	-208	-187	-265	-280	-280
Margin Trends	Equity raised/(bought back)	23 -80	25 -95	0 -121	0 -165	0 -241	0 -347
	Dividends paid Net inc/(dec) in borrowings	-80	-95 129	-121	-165 -49	-241	-347 -47
20	Other investing/financing cash flows	-26	39	-5	662	58	88
	Net cash flow Change in working capital	70 <i>-249</i>	-32 <i>-303</i>	-44 - <i>331</i>	184 <i>-328</i>	-90 <i>-493</i>	64 -467
14	Balance Sheet (HKDm)						
12	Cash and other liquid assets	254	221	178	362	272	336
10 11 12 13 14E 15E 16E	Tangible fixed assets	1,112	1,263	1,362	1,798	1,851	1,880
EBITDA Margin EBIT Margin	Goodwill/intangible assets Associates/investments	0 51	0 52	0 54	0 64	0 74	0 84
· ·	Other assets	2,322	2,667	3,064	4,040	4,764	5,637
Growth & Profitability	Total assets	3,739 818	4,204 947	4,657 1,029	6,264 980	6,960 931	7,937 884
40 25	Interest bearing debt Other liabilities	1,005	947 1,064	1,029	1,685	1,907	2,305
30 - 20	Total liabilities	1,823	2,011	2,108	2,665	2,838	3,189
20 - 15	Shareholders' equity Minorities	1,858 57	2,102 91	2,455 94	3,503 96	4,024 98	4,648 100
	Total shareholders' equity	1,915	2,193	2,549	3,599	4,122	4,748
	Net debt	564	726	851	618	659	548
11 12 13 14E 15E 16E	Key Company Metrics						
Sales growth (LHS) ROE (RHS)	Sales growth (%) DB EPS growth (%)	34.0 16.3	8.3 18.7	6.4 17.2	32.1 24.0	21.1 37.6	21.4 26.0
Solvency	EBITDA Margin (%)	15.3	17.2	17.2	24.0 18.4	19.2	26.0
40	EBIT Margin (%)	11.5	13.1	12.9	14.6	15.3	15.8
	Payout ratio (%) ROE (%)	31.7 14.5	31.5 15.3	33.5 15.9	33.0 16.8	35.0 18.3	40.0 20.0
- 20	Capex/sales (%)	5.5	7.9	5.2	12.9	4.8	4.0
20 15	Capex/depreciation (x) Net debt/equity (%)	1.4 29.5	1.9 33.1	1.2 33.4	3.4 17.2	1.2 16.0	1.1 11.5
10	Net interest cover (x)	6.9	9.6	9.6	13.3	19.7	25.3

Source: Company data, Deutsche Bank estimates

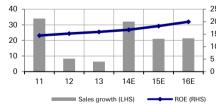
Birdy	2 I	
DILU	/ Lu	

+886 2 2192 2822

birdy.lu@db.com

	Other post-tax income Net profit
0.8	DB adjustments (inclu DB Net profit
	Cash Flow (HKDm
Mar 13Jun 13Sep 13Dec 13Mar 14Jun 14Sep 14Dec 14	Cash flow from operat Net Capex
Tongda Group HANG SENG INDEX (Rebased)	Free cash flow
Margin Trends	Equity raised/(bought Dividends paid Net inc/(dec) in borrov Other investing/financ

Growth & Profitability





Valuation and risks

Buy rating with a 12-month target price of HKD1.53

Figure 1: 2H14 P&L	snapshot						
	2H14	1H14	HoH	2H13	YoY	2H14 DBe	% of diff
Sales	2,690	2,101	28.1%	1,937	38.9%	2,598	3.6%
Gross profits	661	482	37.2%	442	49.5%	608	8.8%
Opex	264	212	24.6%	165	59.9%	225	17.3%
Op. profits	397	270	47.1%	277	43.3%	383	3.7%
Non-op	7	(35)	-120.9%	(38)	-119.4%	(20)	-136.0%
Pre-tax income	405	235	72.1%	240	68.9%	363	11.6%
Net profit	333	167	99.2%	230	44.8%	314	5.8%
EPS (TWD)	0.06	0.03	99.2%	0.05	30.4%	0.06	7.2%
Margin analysis							
Gross margin	24.6%	23.0%		22.8%		23.4%	
Operating margin	14.8%	12.9%		14.3%		14.7%	
Net margin	12.4%	7.9%		11.9%		12.1%	

Handset casing: Standing upon the shoulders of giants

Tongda's two largest handset customers – Huawei and Xiaomi – were showing accelerating momentum in the past two years by leveraging their 1) unique product design and 2) high cost/performance character. According to IDC's estimate, Huawei posted a 50% QoQ smartphone shipment increase vs. only 2% QoQ shipment growth in the China market.

Huawei is increasing metal casing adoption rate in its smartphone products, which helps differentiate its products over local/international competitors. As a major metal casing supplier to Huawei, Tongda is well positioned to benefit from the casing ASP hike as metal casing carries around 50% higher price vs. traditional plastic casing. Apart from this, Tongda also keeps broadening its customer base by tapping into other premium smartphone vendors' metal casing supply chain (OPPO in our view). We expect Tongda to deliver 47%/32% YoY handset casing revenue growth in 2015/2016E, which propels persistent earnings expansion for the company.

mn units	2013Q1	2013Q2	2013Q3	2013Q4	2014Q1	2014Q2	2014Q3	2014Q4
Samsung	70	77	85	84	89	75	80	75
Apple	37	31	34	51	44	35	39	74
Lenovo	8	11	12	14	13	16	17	25
Huawei	9	10	13	17	14	20	16	24
Xiaomi	3	4	6	6	10	14	17	17
LG Electronics	10	12	12	13	12	15	17	16
TCL-Alcatel	2	3	5	7	6	8	9	14
ZTE	9	10	8	8	9	10	11	12
Sony	8	10	10	11	9	9	10	12
Microsoft	6	7	9	8	8	10	11	11
Others	58	65	71	73	76	90	107	101
Total	221	242	264	293	288	302	335	380

Figure 2: Worldwide smartphone shipment

Figure 3: Earnings revision P/L Revision 2013 2014E 2015E 2016E % of change (TWD mn) (Actual) Old New Old New Old New 2014E 2015E 2016E Net sales 3,627 4,699 4,791 5,808 5,801 6,920 7,041 2.0 -0.1 17 Gross profit 798 1,090 1,144 1,389 1,422 1,699 1,756 4.9 2.4 3.4 Operating expense 330 437 443 534 534 630 641 1.3 -0.1 1.7 Operating profit 468 653 701 854 888 1,069 1,116 7.3 4.0 4.3 Non-op gain/loss -50 -55 -61 -40 -50 -44 -57 10.6 25.5 29.8 838 Pre-tax profit 418 598 640 815 1,025 1,059 7.0 2.9 3.2 500 688 867 Net profit 363 481 660 839 3.8 4.2 3.2 EPS (TWD) 0.07 0.09 0.09 0.13 0.16 5.2 0.12 0.15 5.6 4.6 Key ratio (%) Sales growth 6.4 29.6 32.1 23.6 21.1 19.2 21.4 23.2 23.9 24.5 24.6 24.9 Gross margin 22.0 23.9 12.9 14.7 15.5 15.8 **Operating Margin** 13.9 14.6 15.3 Net margin 10.0 10.2 10.4 11.4 11.9 12.1 12.3

Source: Deutsche Bank estimates, company data

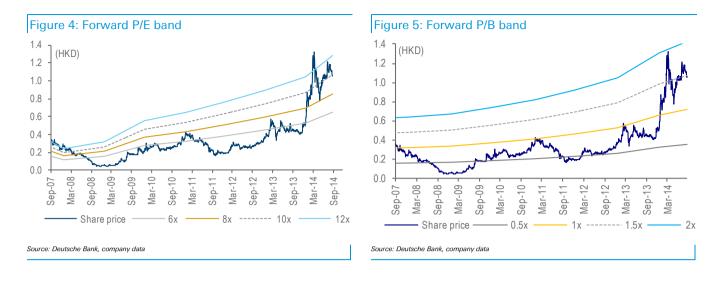
Upward EPS and target price revision

We increase our EPS forecasts by 5-6%, and accordingly raise our target price from HKD1.45 to HKD1.53 (still based on 12x 2015E EPS). 12x P/E is higher than the stock's historical trading average of 8x over the past four years. We believe Tongda's valuation will be re-rated, given its accelerated EPS growth (2014-16 EPS CAGR of 28% vs. 2010-13 EPS CAGR of 17%) and continued ROE expansion (15.3% in 2013 vs. 19.5% in 2016). 12x P/E multiple implies 0.46x PEG, which is in line with its historical PEG trading average (8x P/E over 15.3% EPS growth).

12x PER is in line with the trading average of its regional handset mechanical component peers.

Key share price catalysts for Tongda include new product launches from its major clients (Huawei and Xiaomi) and the rise of the metal casing business, which helps to drive up product ASP and gross margin.

Long-term growth drivers are derived from gross margin expansion (as a result of a favorable product mix change), Tongda's market share gain in the Chinese smartphone space and the organic growth of Chinese smartphones.



Investment risks and sensitivity analysis

Risks to our target price being achieved include a gross margin decline as a result of intensified competition from local peers and slower-than-expected product upgrades, and/or slower sales growth due to weak demand for smartphones, and market share loss.

In order to assess key risks, we have conducted a sensitivity analysis with regard to changes to ASPs and gross margins, and their impact on our 2015 and 2016 EPS assumptions.

Figure 6: 2015 EP	Figure 6: 2015 EPS sensitivity analysis									
2015E EPS	% change in ASP assumption									
		-12.0%	-9.0%	-6.0%	-3.0%	0.0%	3.0%	6.0%	9.0%	12.0%
	-2.0%	0.090	0.095	0.101	0.106	0.111	0.116	0.122	0.127	0.132
	-1.5%	0.094	0.099	0.105	0.110	0.116	0.121	0.126	0.132	0.137
	-1.0%	0.098	0.103	0.109	0.114	0.120	0.126	0.131	0.137	0.142
	-0.5%	0.102	0.107	0.113	0.119	0.124	0.130	0.136	0.142	0.147
% change in gross margin assumption	0.0%	0.106	0.111	0.117	0.123	0.129	0.135	0.141	0.146	0.152
	0.5%	0.110	0.116	0.121	0.127	0.133	0.139	0.145	0.151	0.157
	1.0%	0.114	0.120	0.126	0.132	0.138	0.144	0.150	0.156	0.162
	1.5%	0.117	0.124	0.130	0.136	0.142	0.149	0.155	0.161	0.167
	2.0%	0.121	0.128	0.134	0.140	0.147	0.153	0.160	0.166	0.172

Source: Deutsche Bank estimates

Note 1: The column and row in blue represent the base-case scenario in our earnings model

Note 2: Other assumptions include: (1) 70% of opex is fixed and 30% is variable (in proportion to sales growth or decline); (2) non-op gain/loss (interest income/expense, forex gain/loss, etc), and tax rate are unchanged in our sensitivity analysis



Figure 7: 2016 EPS sensitivity analysis

2016E EPS	% change in ASP assumption									
		-12.0%	-9.0%	-6.0%	-3.0%	0.0%	3.0%	6.0%	9.0%	12.0%
	-2.0%	0.113	0.120	0.126	0.133	0.139	0.146	0.152	0.159	0.165
	-1.5%	0.118	0.125	0.131	0.138	0.145	0.151	0.158	0.165	0.171
	-1.0%	0.123	0.130	0.136	0.143	0.150	0.157	0.164	0.170	0.177
	-0.5%	0.127	0.134	0.141	0.148	0.155	0.162	0.169	0.176	0.183
% change in gross margin assumption	0.0%	0.132	0.139	0.146	0.154	0.161	0.168	0.175	0.182	0.189
	0.5%	0.137	0.144	0.151	0.159	0.166	0.173	0.181	0.188	0.195
	1.0%	0.142	0.149	0.156	0.164	0.171	0.179	0.186	0.194	0.201
	1.5%	0.146	0.154	0.161	0.169	0.177	0.184	0.192	0.199	0.207
	2.0%	0.151	0.159	0.166	0.174	0.182	0.190	0.198	0.205	0.213

Source: Deutsche Bank estimates Note 1: The column and row in blue represent the base-case scenario in our earnings model Note 2: Other assumptions include: (1) 70% of opex is fixed and 30% is variable (in proportion to sales growth or decline); (2) non-op gain/loss (interest income/expense, forex gain/loss, etc), and tax rate are unchanged in our sensitivity analysis

	1H13	2H13	2,013	11	H14	2H14	2014	1H15E	2H15E	2015E
Sales	1,69) 1,9	37	3,627	2,101	2,69	0 4,791	2,614	3,188	3 5,80
Gross profits	35	6 4	42	798	482	66	1 1,144	630	792	2 1,422
Op. profits	19) 2	77	468	270	39	7 701	378	511	888
Non-op	-1	- ō	38	-53	-35		7 -61	-20	-30) -50
Pre-tax income	17	5 2	40	415	235	40	5 640	358	481	838
Net profit	13) 2	30	360	167	33	3 500	293	394	1 688
EPS (HKD)	0.0	3 0.	05	0.07	0.03	0.0	6 0.09	0.05	0.07	7 0.13
Margin Analysis (%)										
Gross profits	21.) 22	.8	22.0	23.0	24.	6 23.9	24.1	24.9) 24.
Op. profits	11.	3 14	.3	12.9	12.9	14.	8 14.6	5 14.4	16.0) 15.3
Pre-tax income	10.4	4 12	.4	11.4	11.2	15.	0 13.4	13.7	15.1	14.4
Tax rate	25.	7 4	.1	13.3	29.0	17.	8 21.9) 18.0	17.9) 18.0
YoY growth (%)										
Sales	21%	/o -4	%	6%	24%	39%	% 32%	24%	18%	5 21%
Gross profits	15%	6 5	%	9%	36%	50%	% 43%	31%	20%	5 24%
Op. profits	10%	, 0	%	4%	42%	43%	6 50%	40%	28%	b 27%
Pre-tax income	12%	6 -2	%	4%	34%	69%	6 54%	52%	19%	5 31%
Net profit	15%	6 23	%	20%	28%	45%	% 39%	76%	19%	38%
HoH growth (%)										
Sales	-16%	6 15	%		8%	28%	6	-3%	22%	, D
Gross profits	-16%	6 24	%		9%	37%	6	-5%	26%	, D
Op. profits	-31%	6 46	%		-3%	47%	6	-5%	35%	, D
Pre-tax income	-28%	6 37	%		-2%	72%	6	-12%	34%	, D
Net profit	-30%	6 76	%		-27%	99%	6	-12%	35%	, D
Sales breakdown										
Handset casing	48.7%	6 53.0	%	45.6%	54.2%	50.4%	6 57.7%	62.1%	60.1%	63.1%
Electrical appliance	16.0%		%	15.4%	9.8%	12.3%		9.1%		
Notebook casing	13.2%	6 13.8	%	13.7%	12.8%	13.2%	% 9.4%	9.1%	9.2%	5 7.1%
Mechanical part	13.3%	6 14.6	%	14.9%	13.9%	14.4%	6 12.2%	12.0%	12.1%	5 11.3%
Communication equipment & others	8.8%	6 4.5	%	10.4%	9.2%	9.8%	6 9.0%	7.8%	8.4%	5 7.9%
Total	100.0%	6 100.0	0/	100.0%	100.0%	100.0%	6 100.0%	100.0%	100.0%	۵

Appendix 1

Important Disclosures

Additional information available upon request

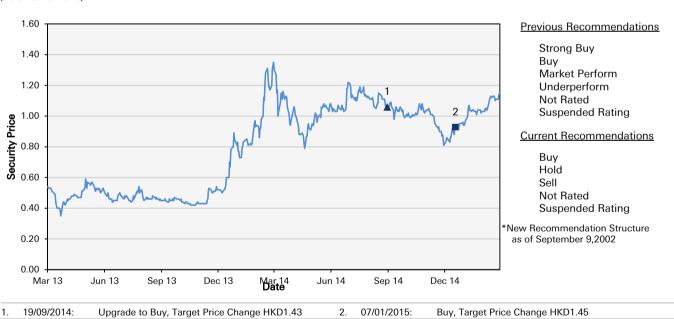
Disclosure checklist			
Company	Ticker	Recent price*	Disclosure
Tongda Group	0698.HK	1.12 (HKD) 19 Mar 15	NA
*D for a second state of the second of the second for			

*Prices are current as of the end of the previous trading session unless otherwise indicated and are sourced from local exchanges via Reuters, Bloomberg and other vendors. Data is sourced from Deutsche Bank and subject companies.

For disclosures pertaining to recommendations or estimates made on securities other than the primary subject of this research, please see the most recently published company report or visit our global disclosure look-up page on our website at http://gm.db.com/ger/disclosure/Disclosure.egsr?ricCode=0698.HK

Analyst Certification

The views expressed in this report accurately reflect the personal views of the undersigned lead analyst(s) about the subject issuer and the securities of the issuer. In addition, the undersigned lead analyst(s) has not and will not receive any compensation for providing a specific recommendation or view in this report. Birdy Lu



Historical recommendations and target price: Tongda Group (0698.HK) (as of 3/19/2015)

Equity rating key

Buy: Based on a current 12- month view of total share-holder return (TSR = percentage change in share price from current price to projected target price plus pro-jected dividend yield), we recommend that investors buy the stock.

Sell: Based on a current 12-month view of total shareholder return, we recommend that investors sell the stock

Hold: We take a neutral view on the stock 12-months out and, based on this time horizon, do not recommend either a Buy or Sell. Notes:

1. Newly issued research recommendations and target prices always supersede previously published research.

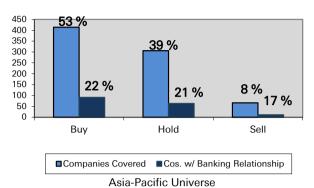
2. Ratings definitions prior to 27 January, 2007 were:

Buy: Expected total return (including dividends) of 10% or more over a 12-month period

Hold: Expected total return (including dividends) between -10% and 10% over a 12-month period

Sell: Expected total return (including dividends) of -10% or worse over a 12-month period





Regulatory Disclosures

1. Important Additional Conflict Disclosures

Aside from within this report, important conflict disclosures can also be found at https://gm.db.com/equities under the "Disclosures Lookup" and "Legal" tabs. Investors are strongly encouraged to review this information before investing. 2. Short-Term Trade Ideas

Deutsche Bank equity research analysts sometimes have shorter-term trade ideas (known as SOLAR ideas) that are consistent or inconsistent with Deutsche Bank's existing longer term ratings. These trade ideas can be found at the SOLAR link at <u>http://gm.db.com</u>.

3. Country-Specific Disclosures

Australia and New Zealand: This research, and any access to it, is intended only for "wholesale clients" within the meaning of the Australian Corporations Act and New Zealand Financial Advisors Act respectively.

Brazil: The views expressed above accurately reflect personal views of the authors about the subject company(ies) and its(their) securities, including in relation to Deutsche Bank. The compensation of the equity research analyst(s) is indirectly affected by revenues deriving from the business and financial transactions of Deutsche Bank. In cases where at least one Brazil based analyst (identified by a phone number starting with +55 country code) has taken part in the preparation of this research report, the Brazil based analyst whose name appears first assumes primary responsibility for its content from a Brazilian regulatory perspective and for its compliance with CVM Instruction # 483.

EU countries: Disclosures relating to our obligations under MiFiD can be found at <u>http://www.globalmarkets.db.com/riskdisclosures</u>.

Japan: Disclosures under the Financial Instruments and Exchange Law: Company name - Deutsche Securities Inc. Registration number - Registered as a financial instruments dealer by the Head of the Kanto Local Finance Bureau (Kinsho) No. 117. Member of associations: JSDA, Type II Financial Instruments Firms Association, The Financial Futures Association of Japan, Japan Investment Advisers Association. Commissions and risks involved in stock transactions - for stock transactions, we charge stock commissions and consumption tax by multiplying the transaction amount by the commission rate agreed with each customer. Stock transactions can lead to losses as a result of share price fluctuations and other factors. Transactions in foreign stocks can lead to additional losses stemming from foreign exchange fluctuations. "Moody's", "Standard & Poor's", and "Fitch" mentioned in this report are not registered credit rating agencies in Japan unless Japan or "Nippon" is specifically designated in the name of the entity. Reports on Japanese listed companies not written by analysts of Deutsche Securities Inc. (DSI) are written by Deutsche Bank Group's analysts with the coverage companies specified by DSI.

Malaysia: Deutsche Bank AG and/or its affiliate(s) may maintain positions in the securities referred to herein and may from time to time offer those securities for purchase or may have an interest to purchase such securities. Deutsche Bank may engage in transactions in a manner inconsistent with the views discussed herein.

Qatar: Deutsche Bank AG in the Qatar Financial Centre (registered no. 00032) is regulated by the Qatar Financial Centre Regulatory Authority. Deutsche Bank AG - QFC Branch may only undertake the financial services activities that fall within the scope of its existing QFCRA license. Principal place of business in the QFC: Qatar Financial Centre, Tower, West Bay, Level 5, PO Box 14928, Doha, Qatar. This information has been distributed by Deutsche Bank AG. Related financial products or services are only available to Business Customers, as defined by the Qatar Financial Centre Regulatory Authority.

Russia: This information, interpretation and opinions submitted herein are not in the context of, and do not constitute, any appraisal or evaluation activity requiring a license in the Russian Federation.

Kingdom of Saudi Arabia: Deutsche Securities Saudi Arabia LLC Company, (registered no. 07073-37) is regulated by the Capital Market Authority. Deutsche Securities Saudi Arabia may only undertake the financial services activities that fall within the scope of its existing CMA license. Principal place of business in Saudi Arabia: King Fahad Road, Al Olaya District, P.O. Box 301809, Faisaliah Tower - 17th Floor, 11372 Riyadh, Saudi Arabia.

United Arab Emirates: Deutsche Bank AG in the Dubai International Financial Centre (registered no. 00045) is regulated by the Dubai Financial Services Authority. Deutsche Bank AG - DIFC Branch may only undertake the financial services activities that fall within the scope of its existing DFSA license. Principal place of business in the DIFC: Dubai International Financial Centre, The Gate Village, Building 5, PO Box 504902, Dubai, U.A.E. This information has been distributed by Deutsche Bank AG. Related financial products or services are only available to Professional Clients, as defined by the Dubai Financial Services Authority.



David Folkerts-Landau Group Chief Economist Member of the Group Executive Committee

Raj Hindocha **Global Chief Operating Officer** Research

Marcel Cassard Global Head FICC Research & Global Macro Economics

Deutsche Bank AG

International Commerce Centre,

1 Austin Road West, Kowloon,

Filiale Hongkong

Hong Kong

Michael Spencer **Regional Head** Asia Pacific Research

Ralf Hoffmann **Regional Head** Deutsche Bank Research. Germanv

Andreas Neubauer **Regional Head** Equity Research, Germany

Richard Smith and Steve Pollard Co-Global Heads Equity Research

Deutsche Securities Inc.

Chiyoda-ku, Tokyo 100-6171

2-11-1 Nagatacho

Sanno Park Tower

. Tel: (81) 3 5156 6770

Japan

Steve Pollard **Regional Head** Americas Research

International locations

Deutsche Bank AG Deutsche Bank Place Level 16 Corner of Hunter & Phillip Streets Sydney, NSW 2000 Australia Tel: (61) 2 8258 1234

Deutsche Bank AG London

1 Great Winchester Street London EC2N 2EO United Kingdom Tel: (44) 20 7545 8000

Deutsche Bank AG Große Gallusstraße 10-14 60272 Frankfurt am Main Germany Tel: (49) 69 910 00

United States of America

Tel: (1) 212 250 2500

Tel: (852) 2203 8888 Deutsche Bank Securities Inc. 60 Wall Street New York, NY 10005

Global Disclaimer

The information and opinions in this report were prepared by Deutsche Bank AG or one of its affiliates (collectively "Deutsche Bank"). The information herein is believed to be reliable and has been obtained from public reliable. Deutsche Bank makes no representation as to the accuracy or completer

Deutsche Bank may engage in securities transactions, on a proprietary basis or otherwise, in a manner inconsistent with the view taken in this research report. In addition, others within Deutsche Bank, including strategists and sales staff, may take a view that is inconsistent with that taken in this research report.

Opinions, estimates and projections in this report constitute the current judgement of the author as of the date of this report. They do not necessarily reflect the opinions of Deutsche Bank and are subject to change without notice. Deutsche Bank has no obligation to update, modify or amend this report or to otherwise notify a recipient thereof in the event that any opinion, forecast or estimate set forth herein, changes or subsequently becomes inaccurate. Prices and availability of financial instruments are subject to change without notice. This report is provided for informational purposes only. It is not an offer or a solicitation of an offer to buy or sell any financial instruments or to participate in any particular trading strategy. Target prices are inherently imprecise and a product of the analyst judgement.

In August 2009, Deutsche Bank instituted a new policy whereby analysts may choose not to set or maintain a target price of certain issuers under coverage with a Hold rating. In particular, this will typically occur for "Hold" rated stocks having a market cap smaller than most other companies in its sector or region. We believe that such policy will allow us to make best use of our resources. Please visit our website at http://gm.db.com to determine the target price of any stock.

The financial instruments discussed in this report may not be suitable for all investors and investors must make their own informed investment decisions. Stock transactions can lead to losses as a result of price Inductations and other factors. If a financial instrument is denominated in a currency other than an investor's currency, a change in exchange rates may adversely affect the investment. Bast performance is not necessarily indicative of future results. Deutsche Bank may with respect to securities covered by this report, sell to or buy from customers on a principal basis, and consider this report in deciding to trade on a proprietary basis. Prices are current as of the end of the previous trading session unless otherwise indicated and are sourced from local exchanges via Reuters, Bloomberg and other vendors. Data is sourced from Deutsche Bank and subject companies.

Unless governing law provides otherwise, all transactions should be executed through the Deutsche Bank entity in the investor's home jurisdiction. In the U.S. this report is approved and/or distributed by Deutsche Bank AG, a joint stock corporation with limited liability incomportated in the Federal Republic of Germany with is principal office in Frankfurt am Main. Deutsche Bank AG is authorised under German Banking Law (competent authority: European Central Bank) and is subject to supervision by the European Central Bank and by BaFin, Germany's Federal Financial Supervisory Authority. In the United Kingdom, this report is approved and/or communicated by Deutsche Bank AG is subject to supervision by the European Central Bank and by BaFin, Germany's Federal Financial Supervisory Authority. In the United Kingdom, this report is approved and/or communicated by Deutsche Bank AG acting through its London Branch at Winchester House, 1 Great Winchester Street, London EC2N 2DB. Deutsche Bank AG, Hong Kong Branch, ni Korea by Deutsche Securities Asia Limited, Singapore Branch on Deutsche Securities Asia Limited, Singapore Branch or Securities Asia Limited, Singapore Branch or In espent or in seport or is approved and/or distributed in the report as to contact Deutsche Bank AG, Singapore Branch or Deutsche Securities Asia Limited, Singapore Branch or Deutsche Bank AG, Deutsche Bank AG, Unless governing law provides otherwise, all transactions should be executed through the Deutsche Bank entity in the investor's home jurisdiction. In the U.S. this report is approved and/or distributed by Deutsche

Copyright © 2015 Deutsche Bank AG