J.P.Morgan

Asia Pacific Equity Research

27 May 2016

Neutral

Price: M\$3.03 27 May 2016 Price Target: M\$3.30

PT End Date: 30 Dec 2016

Sunway Bhd (SWB MK)

1Q16: Steady operating performance & pre-sales forecast achievable

SWB's 1Q16 core net profit (-20% Y/Y) came in at 23%/19% of JPM/consensus FY16E forecast. Profits were dragged down by lower income from construction arm (due to its listing in Jul-15 which saw a reduction in the group's stake to 54%), though contributions from property investment and property development were stronger. First quarter is traditionally weaker and strong replenishment in construction order-book YTD will help improve earnings from the division going forward. Hence, we maintain our forecast. 1016 pre-sales rose 17% Y/Y coming in at 26% of our FY16E forecast which looks achievable helped also by the group's recently introduced easy payment schemes. SWB trades at 37% RNAV discount (versus the sector historical mean of 30%). We prefer its peers, SP Setia (OW) and Eco World (OW) which are trading at steeper RNAV discounts of 47% and 58% respectively and with strong mid-to-long term fundamentals. SWB remains a Neutral.

- On a core basis for 1Q16, net income down 20% Y/Y against stable performance in revenue and operating profit (+2% Y/Y). The fall in profits at the net level largely due to reduction in contribution from construction arm to 54% following its listing in Jul-15.
- Steady core operating profit (+2% Y/Y) for 1Q16 as higher profits from property development (+39% Y/Y) and property investment (+69% Y/Y) compensated for lower construction contributions (-33% Y/Y). Property development segment benefited from sales and profit recognition from its Singapore project (Avant Parc), while property investments saw higher occupancy, rental and contributions from new assets, i.e. Sunway Pinnacle office tower, Sunway Putra Hotel and Sunway University New Academic Block. Construction profits fell with completion of civil and building projects in 2015 (i.e. includes the BRT)
- 1Q16 pre-sales up 7% Y/Y, strong construction order-book. 1Q16 pre-sales rose 7% Y/Y to M\$263MM, of which 35% came from Iskandar and 16% from Singapore. This accounts for 26% of our FY16E pre-sales forecast of M\$1B and 19% of management's target of M\$1.4B. We believe our pre-sales forecast is achievable to be driven also by SWB's recent easy payment schemes (i.e. guaranteed loans of up to 88% for 15 years and deferred deposit payment). While this raises the risk premium for the stock due to transfer of funding risk of the purchaser from banks to developer in this case, SWB's net gearing estimated at 37% by end-FY16E we believe is comfortable. Construction order-book is strong at M\$5B (4x historical revenue) which includes M\$2B replenishment YTD, which will help improve income from the division going forward

Table 1: Sunway 1Q16 results summary

M\$ mn; year-end Mar	1Q16	1Q15	Y/Y	4Q15	Q/Q
Revenue	1,069	1,060	1%	1,399	-24%
Core Operating profit	150	147	2%	204	-27%
Operating margin	14.0%	13.9%		14.6%	
Net finance costs	-16	-11	42%	-22	-26%
Associates & JVs	43	38	12%	50	-14%
Core PBT	178	178	0%	244	-27%
Net income	102	147	-30%	215	-52%
Core net income	105	131	-20%	180	-42%
Core margin	9.8%	12.3%		12.9%	
Core EPS (sen)	5.59	7.10	-21%	9.63	-42%

Source: Company

Table 2: Sunway 1Q16 core operating profit breakdown

M\$mn	1Q16	1Q15	Y/Y	4Q15	Q/Q
Prop development	56	40	39%	96	-42%
Prop investment	36	21	69%	45	-20%
Construction	36	53	-33%	27	33%
Trading & Manufacturing	9	14	-40%	12	-27%
Quarry	6	8	-16%	6	9%
Others	7	11	-35%	18	-60%
Core operating profit	150	147	2%	204	-27%

Source: Company.

Table 3: Sunway 1Q16 core operating margin breakdown

M\$mn	1Q16	1Q15	Y/Y	4Q15	Q/Q
Prop development	23.8%	22.2%	2 ppts	23.0%	1 ppts
Prop investment	21.5%	15.4%	6 ppts	24.5%	-3 ppts
Construction	11.4%	14.1%	-3 ppts	6.6%	5 ppts
Trading & Manufacturing	4.4%	7.4%	-3 ppts	5.7%	-1 ppts
Quarry	16.5%	14.1%	2 ppts	10.2%	6 ppts
Others	5.8%	9.2%	-3 ppts	14.0%	-8 ppts
Core operating margin	14.0%	13.9%	0 ppts	14.6%	-1 ppts

Source: Company.

Table 4: Developer sector peer comparison

As at: 27 May-16	FYE	Mkt cap	Price	Rating	Target	P	/E	EPS g	rowth	Net di	v yield	P/B	ROE	RNAV	Prem/disc
		(US\$mn)	(M\$)		(M\$)	CY16E	CY17E	CY16E	CY17E	FY16E	FY17E	FY16E	FY16E	(M\$)	to RNAV
Eco World Develop	Oct	736	1.27	OW	1.90	22.7	12.1	105.3%	87.4%	0.0%	0.0%	0.9	3.5	3.00	-58%
IGB Corporation	Dec	788	2.41	UW	2.30	13.3	12.1	18.3%	9.6%	3.6%	3.6%	0.7	5.5	5.40	-55%
Mah Sing Group	Dec	885	1.50	N	1.50	11.0	10.3	-3.4%	6.8%	3.6%	3.9%	1.1	11.9	2.10	-29%
SP Setia	Dec	2,041	3.17	OW	3.80	13.1	10.5	-30.9%	25.3%	4.4%	5.5%	1.1	8.4	6.00	-47%
Sunway	Dec	1,457	3.02	N	3.30	12.6	11.1	-20.1%	13.7%	2.9%	3.3%	8.0	7.2	4.80	-37%
UEM Sunrise	Dec	1,156	1.04	N	1.10	16.4	16.6	12.1%	-1.5%	1.9%	2.9%	0.7	4.2	2.80	-63%
Weighted average		7,064				14.3	11.9	-17.6%	18.8%	3.0%	3.6%	0.9	7.1		-47%

Source: Bloomberg, J.P. Morgan estimates.

Investment Thesis

Longer-term, we continue to like Sunway for its integrated business, with strong assets and branding (property development land-bank, commercial assets via 36%-owned Sunway REIT), as well as its asset-light model, with the next asset recycling and hence further prospects for value unlocking likely in the next two to three years, upon maturity of its large recent and soon-to-be-completed commercial properties (i.e., Velocity mall, Pinnacle office tower).

However, we see limited catalysts over the near to medium term given the weak property market outlook. Hence, we are Neutral on Sunway Bhd.

Valuation

Our Dec-16E PT of M\$3.30 is based on a 30% discount to RNAV, in line with sector historical mean. We believe this is fair versus at over -1SD to historical mean for its peers, given its more diversified/integrated business providing support in the current slow down (i.e. stable to higher income from property investment and construction) and proven past efforts to unlock value (i.e. special dividends following the construction listing in 2015).

Sunway RNAV

Projects	% stake	Description	Undeveloped land (acres)	Remaining GDV (M\$ M)	Years to develop	Revaluation surplus (M\$ M)	Comments
Klang Valley		•	, ,	. , ,		1 (. ,	
Sunway Damansara	60%	Residential/commercial township	15	1,691	5	103	Discounted at WACC of 10%
Sunway South Quay	60%	Lakeside mixed development	40	3,087	7	271	Discounted at WACC of 10%
Sunway Monterez	60%	Residential	4	38	3	2	Discounted at WACC of 10%
Sunway Semenyih	70%	Residential	398	729	10	51	Discounted at WACC of 10%
Sunway Cheras	100%	Residential	6	17	3	2	Discounted at WACC of 10%
Sunway Duta	60%	Residential	3	120	3	12	Discounted at WACC of 10%
Sunway Montana	100%	Residential	2	56	3	6	Discounted at WACC of 10%
Sunway Resort City	100%	Commercial	15	660	6	66	Discounted at WACC of 10%
Casa Kiara III	80%	Residential	3	210	3	18	Discounted at WACC of 10%
Sunway Velocity	85%	Mixed development	10	1.984	6	264	Discounted at WACC of 10%
Sunway Tower KL 1	100%	Office	1	240	3	19	Discounted at WACC of 10%
Bangi	100%	Residential	3	59	2	5	Discounted at WACC of 10%
Melawati	100%	Residential	2	43	2	4	Discounted at WACC of 10%
Sg Long	80%	Residential	111	277	4	22	Discounted at WACC of 10%
Mont Putra, Rawang	100%	Residential	163	156	6	13	Discounted at WACC of 10%
Kelana Jaya	100%	Mixed development	22	1.900	5	197	Discounted at WACC of 10%
Kampung Subang	80%	Industrial	6	110	5	20	Discounted at WACC of 10% Discounted at WACC of 10%
Sunway Alam Suria	100%	Residential	0	0	2	0	Discounted at WACC of 10%
Suriway Alam Suria	100 /6	Residential	805	11,376		1.075	Discounted at WACC of 10%
Northern			003	11,376		1,073	
Sunway City Ipoh	65%	Residential	441	1,048	10	73	Discounted at WACC of 10%
Sunway Tunas, Balik Pulau	100%	Residential	9	60	2	6	Discounted at WACC of 10%
Sunway Betong, Balik Pulau	100%	Residential	20	110	2	10	Discounted at WACC of 10%
Paya Terubong	100%	Residential	24	1,500	6	143	Discounted at WACC of 10%
Sungai Ara		Residential	81	849	8	81	Discounted at WACC of 10%
Bukit Mertajam		Residential	53	725	5	69	Discounted at WACC of 10%
•			627	4,293		382	
Singapore Novena	30%	Medical suites, retail, hotel	0	0	3	10	Discounted at WACC of 10%
Sembawang, Singapore		Residential	Ö	0	2	0	Discounted at WACC of 10%
oembawang, omgapore	10070	Residential	0	0		10	Discounted at WACC of 10%
Johor			v	v		10	
Bukit Lenang	80%	Residential	65	698	5	60	Discounted at WACC of 10%
Medini		Mixed development	656	11,293	10	424	Discounted at WACC of 10%
Pendas		Mixed development	1,079	18,000	15	666	Discounted at WACC of 10%
Tondas	00 /0	Mixed development	1,800	29,991	10	1,150	. Diodounted at W/100 of 1070
China			•	•		,	
Sunway Guanghao	65%	Mixed development	4	67	2	4	Discounted at WACC of 10%
Tianjin Eco City India	60%	Mixed development	17	1,060	6	38	Discounted at WACC of 10%
Sunway OPUS Grand India	50%	Condos	24	702	5	26	Discounted at WACC of 10%
Sunway MAK Signature Residence		Residential	14	181	5	10	Discounted at WACC of 10%
(JV with M.A.K Builders)	0070	residential	17	101	Ü	10	Discounted at WACC of 10%
Australia Wonderland Business Park (Sydney)	15%	Industrial	13	44	6	2	Discounted at WACC of 10%
vvolidelialid busiliess Falk (Sydfley)	40%	แนนจนเสเ	72	2,054	U	80	Discounted at WACC OF 10%
Total			3,304	47,714		2,697	

Source: Company, J.P. Morgan estimates.

Sunway RNAV

	Value (M\$ M)	Comments
Revaluation surplus	2,697	
Book value as at Dec-15	6,230	
Revaluation gain from investment properties	231	Valuing 36%-owned Sunway REIT at PT of M\$1.70
Revaluation gain from construction division	549	Valued at market price
Outstanding cash obligation for land	(422)	Discounted value for Iskandar land purchase
Total RNAV	9,285	
Number of shares (M)	1,761	
RNAV per share (M\$)	5.27	
FD RNAV		
Warrants & ESOS		
Add proceeds from warrants & ESOS	931	258.5M outstanding warrants at M\$2.50/share and 133.6M ESOS
Adjusted RNAV	10,215	
Fully diluted number of shares (M)	2,148	With warrants and ESOS
RNAV/share (M\$)	4.80	
PT (M\$)	3.30	30% discount to RNAV

Source: J.P. Morgan estimates.

Risks to Rating and Price Target

Key downside risks include: (1) slower-than-expected property sales, (2) rising competition in Iskandar, with supply expansion affecting the high-rise, high-density segment in particular – for Sunway, its low-density Medini project in Iskandar accounts for 20% of our base-case RNAV, and (3) funding/balance sheet risk from its new property incentives (i.e. guaranteed loans and deferred payment schemes). Key upside risks include attractive, accretive land acquisitions, especially in the Klang Valley.

Real Estate

Simone Yeoh $^{\rm AC}$

(60-3) 2718-0710

simone.x.yeoh@jpmorgan.com

Bloomberg JPMA YEOH <GO>

Hoy Kit Mak

(60-3) 2718-0713

hoykit.mak@jpmorgan.com

JPMorgan Securities (Malaysia) Sdn. Bhd. (18146-X)

www.jpmorganmarkets.com

Analyst Certification: The research analyst(s) denoted by an "AC" on the cover of this report certifies (or, where multiple research analysts are primarily responsible for this report, the research analyst denoted by an "AC" on the cover or within the document individually certifies, with respect to each security or issuer that the research analyst covers in this research) that: (1) all of the views expressed in this report accurately reflect his or her personal views about any and all of the subject securities or issuers; and (2) no part of any of the research analyst's compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed by the research analyst(s) in this report. For all Korea-based research analysts listed on the front cover, they also certify, as per KOFIA requirements, that their analysis was made in good faith and that the views reflect their own opinion, without undue influence or intervention.

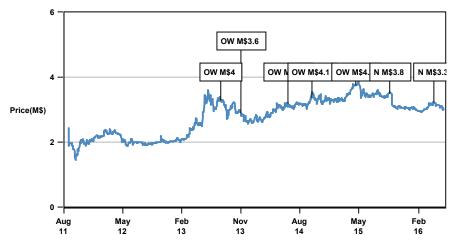
J.P. Morgan does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

Important Disclosures

- Market Maker/ Liquidity Provider: J.P. Morgan Securities plc and/or an affiliate is a market maker and/or liquidity provider in securities issued by Sunway Bhd.
- Client: J.P. Morgan currently has, or had within the past 12 months, the following entity(ies) as clients: Sunway Bhd.
- Other Significant Financial Interests: J.P. Morgan owns a position of 1 million USD or more in the debt securities of Sunway Bhd.

Company-Specific Disclosures: Important disclosures, including price charts and credit opinion history tables, are available for compendium reports and all J.P. Morgan—covered companies by visiting https://jpmm.com/research/disclosures, calling 1-800-477-0406, or e-mailing research.disclosure.inquiries@jpmorgan.com with your request. J.P. Morgan's Strategy, Technical, and Quantitative Research teams may screen companies not covered by J.P. Morgan. For important disclosures for these companies, please call 1-800-477-0406 or e-mail research.disclosure.inquiries@jpmorgan.com.

Sunway Bhd (SWAY.KL, SWB MK) Price Chart



Date	Rating	Share Price (M\$)	Price Target (M\$)
26-Jul-13	OW	3.30	4.00
28-Oct-13	OW	2.88	3.60
05-Jun-14	OW	3.19	3.80
22-Sep-14	OW	3.36	4.10
17-Apr-15	OW	3.75	4.30
19-Sep-15	N	3.50	3.80
08-Apr-16	N	3.24	3.30

Source: Bloomberg and J.P. Morgan; price data adjusted for stock splits and dividends. Initiated coverage Jul 26, 2013.

The chart(s) show J.P. Morgan's continuing coverage of the stocks; the current analysts may or may not have covered it over the entire period.

J.P. Morgan ratings or designations: OW = Overweight, N= Neutral, UW = Underweight, NR = Not Rated

Explanation of Equity Research Ratings, Designations and Analyst(s) Coverage Universe:

J.P. Morgan uses the following rating system: Overweight [Over the next six to twelve months, we expect this stock will outperform the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] Neutral [Over the next six to twelve months, we expect this stock will perform in line with the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] Underweight [Over the next six to twelve months, we expect this stock will underperform the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] Not Rated (NR): J.P. Morgan has removed the rating and, if applicable, the price target, for this stock because of either a lack of a sufficient fundamental basis or for legal, regulatory or policy reasons. The previous rating and, if applicable, the price target, no longer should be relied upon. An NR designation is not a recommendation or a rating. In our Asia (ex-Australia) and U.K. small- and mid-cap equity research, each stock's expected total return is compared to the expected total return of a benchmark country market index, not to those analysts' coverage universe. If it does not appear in the Important Disclosures section of this report, the certifying analyst's coverage universe can be found on J.P. Morgan's research website, www.ipmorganmarkets.com.

Coverage Universe: Yeoh, Simone Xenia: Astra Agro Lestari (AALI.JK), Capitaland Malaysia Mall Trust (CAMA.KL), Eco World Development (ECOW.KL), First Resources Limited (FRLD.SI), Genting Plantations (GENP.KL), Golden Agri-Resources Ltd (GAGR.SI), IGB Corporation (IGBS.KL), IGB REIT (IGRE.KL), IHH Healthcare Bhd (IHHH.KL), IOI Corp. (IOIB.KL), KLCCP

Stapled Group (KLCC.KL), KPJ Healthcare Berhad (KPJH.KL), Kuala Lumpur Kepong (KLKK.KL), MISC Berhad (MISC.KL), Mah Sing Group Berhad (MAHS.KL), Media Prima Berhad (MPRM.KL), SP Setia (SETI.KL), Salim Ivomas Pratama (SIMP.JK), Sime Darby Berhad (SIME.KL), Sunway Bhd (SWAY.KL), Sunway REIT (SUNW.KL), Top Glove Corporation (TPGC.KL), UEM Sunrise Bhd (UMSB.KL), Wilmar International Limited (WLIL.SI)

J.P. Morgan Equity Research Ratings Distribution, as of April 1, 2016

	Overweight	Neutral	Underweight
	(buy)	(hold)	(sell)
J.P. Morgan Global Equity Research Coverage	44%	44%	12%
IB clients*	53%	49%	34%
JPMS Equity Research Coverage	43%	48%	9%
IB clients*	71%	63%	49%

^{*}Percentage of investment banking clients in each rating category.

For purposes only of FINRA/NYSE ratings distribution rules, our Overweight rating falls into a buy rating category; our Neutral rating falls into a hold rating category; and our Underweight rating falls into a sell rating category. Please note that stocks with an NR designation are not included in the table above.

Equity Valuation and Risks: For valuation methodology and risks associated with covered companies or price targets for covered companies, please see the most recent company-specific research report at http://www.jpmorganmarkets.com, contact the primary analyst or your J.P. Morgan representative, or email research.disclosure.inquiries@jpmorgan.com.

Equity Analysts' Compensation: The equity research analysts responsible for the preparation of this report receive compensation based upon various factors, including the quality and accuracy of research, client feedback, competitive factors, and overall firm revenues.

Registration of non-US Analysts: Unless otherwise noted, the non-US analysts listed on the front of this report are employees of non-US affiliates of JPMS, are not registered/qualified as research analysts under NASD/NYSE rules, may not be associated persons of JPMS, and may not be subject to FINRA Rule 2711 and NYSE Rule 472 restrictions on communications with covered companies, public appearances, and trading securities held by a research analyst account.

Other Disclosures

J.P. Morgan ("JPM") is the global brand name for J.P. Morgan Securities LLC ("JPMS") and its affiliates worldwide. J.P. Morgan Cazenove is a marketing name for the U.K. investment banking businesses and EMEA cash equities and equity research businesses of JPMorgan Chase & Co. and its subsidiaries

All research reports made available to clients are simultaneously available on our client website, J.P. Morgan Markets. Not all research content is redistributed, e-mailed or made available to third-party aggregators. For all research reports available on a particular stock, please contact your sales representative.

Options related research: If the information contained herein regards options related research, such information is available only to persons who have received the proper option risk disclosure documents. For a copy of the Option Clearing Corporation's Characteristics and Risks of Standardized Options, please contact your J.P. Morgan Representative or visit the OCC's website at http://www.optionsclearing.com/publications/risks/riskstoc.pdf

Legal Entities Disclosures

U.S.: JPMS is a member of NYSE, FINRA, SIPC and the NFA. JPMorgan Chase Bank, N.A. is a member of FDIC. U.K.: JPMorgan Chase N.A., London Branch, is authorised by the Prudential Regulation Authority and is subject to regulation by the Financial Conduct Authority and to limited regulation by the Prudential Regulation Authority. Details about the extent of our regulation by the Prudential Regulation Authority are available from J.P. Morgan on request. J.P. Morgan Securities plc (JPMS plc) is a member of the London Stock Exchange and is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. Registered in England & Wales No. 2711006. Registered Office 25 Bank Street, London, E14 5JP. South Africa: J.P. Morgan Equities South Africa Proprietary Limited is a member of the Johannesburg Securities Exchange and is regulated by the Financial Services Board. Hong Kong: J.P. Morgan Securities (Asia Pacific) Limited (CE number AAJ321) is regulated by the Hong Kong Monetary Authority and the Securities and Futures Commission in Hong Kong and/or J.P. Morgan Broking (Hong Kong) Limited (CE number AAB027) is regulated by the Securities and Futures Commission in Hong Kong. Korea: This material is issued and distributed in Korea by or through J.P. Morgan Securities (Far East) Limited, Seoul Branch, which is a member of the Korea Exchange(KRX) and is regulated by the Financial Services Commission (FSC) and the Financial Supervisory Service (FSS). Australia: J.P. Morgan Australia Limited (JPMAL) (ABN 52 002 888 011/AFS Licence No: 238188) is regulated by ASIC and J.P. Morgan Securities Australia Limited (JPMSAL) (ABN 61 003 245 234/AFS Licence No: 238066) is regulated by ASIC and is a Market, Clearing and Settlement Participant of ASX Limited and CHI-X. Taiwan: J.P.Morgan Securities (Taiwan) Limited is a participant of the Taiwan Stock Exchange (company-type) and regulated by the Taiwan Securities and Futures Bureau. India: J.P. Morgan India Private Limited (Corporate Identity Number - U67120MH1992FTC068724), having its registered office at J.P. Morgan Tower, Off. C.S.T. Road, Kalina, Santacruz - East, Mumbai - 400098, is registered with Securities and Exchange Board of India (SEBI) as a 'Research Analyst' having registration number INH000001873. J.P. Morgan India Private Limited is also registered with SEBI as a member of the National Stock Exchange of India Limited (SEBI Registration Number - INB 230675231/INF 230675231/INE 230675231) and Bombay Stock Exchange Limited (SEBI Registration Number - INB 010675237/INF 010675237). Telephone: 91-22-6157 3000, Facsimile: 91-22-6157 3990 and Website: www.jpmipl.com. For non local research reports, this material is not distributed in India by J.P. Morgan India Private Limited. Thailand: This material is issued and distributed in Thailand by JPMorgan Securities (Thailand) Ltd., which is a member of the Stock Exchange of Thailand and is regulated by the Ministry of Finance and the Securities and Exchange Commission and its registered address is 3rd Floor, 20 North Sathorn Road, Silom, Bangrak, Bangkok 10500. Indonesia: PT J.P. Morgan Securities Indonesia is a member of the Indonesia Stock Exchange and is regulated by the OJK a.k.a. BAPEPAM LK. Philippines: J.P. Morgan Securities Philippines Inc. is a Trading Participant of the Philippine Stock Exchange and a member of the Securities Clearing Corporation of the Philippines and the Securities Investor Protection Fund. It is regulated by the Securities and Exchange Commission. Brazil: Banco J.P. Morgan S.A. is regulated by the Comissao de Valores Mobiliarios (CVM) and by the Central Bank of Brazil. Mexico: J.P. Morgan Casa de Bolsa, S.A. de C.V., J.P. Morgan Grupo Financiero is a member of the Mexican Stock Exchange and authorized to act as a broker dealer by the National Banking and Securities Exchange Commission. Singapore: This material is issued and distributed in Singapore by or through J.P. Morgan Securities Singapore Private Limited (JPMSS) [MCI (P) 193/03/2016 and Co. Reg. No.: 199405335R] which is a member of the Singapore Exchange Securities Trading Limited and is regulated by the Monetary Authority of Singapore (MAS) and/or JPMorgan Chase Bank, N.A., Singapore branch (JPMCB Singapore) which is regulated by the MAS. This material is provided in Singapore only to accredited investors, expert investors and institutional investors, as defined in Section 4A of the Securities and

Futures Act, Cap. 289. Recipients of this document are to contact JPMSS or JPMCB Singapore in respect of any matters arising from, or in connection with, the document. Japan: JPMorgan Securities Japan Co., Ltd. and JPMorgan Chase Bank, N.A., Tokyo Branch are regulated by the Financial Services Agency in Japan. Malaysia: This material is issued and distributed in Malaysia by JPMorgan Securities (Malaysia) Sdn Bhd (18146-X) which is a Participating Organization of Bursa Malaysia Berhad and a holder of Capital Markets Services License issued by the Securities Commission in Malaysia. Pakistan: J. P. Morgan Pakistan Broking (Pvt.) Ltd is a member of the Karachi Stock Exchange and regulated by the Securities and Exchange Commission of Pakistan. Saudi Arabia: J.P. Morgan Saudi Arabia Ltd. is authorized by the Capital Market Authority of the Kingdom of Saudi Arabia (CMA) to carry out dealing as an agent, arranging, advising and custody, with respect to securities business under licence number 35-07079 and its registered address is at 8th Floor, Al-Faisaliyah Tower, King Fahad Road, P.O. Box 51907, Riyadh 11553, Kingdom of Saudi Arabia. Dubai: JPMorgan Chase Bank, N.A., Dubai Branch is regulated by the Dubai Financial Services Authority (DFSA) and its registered address is Dubai International Financial Centre - Building 3, Level 7, PO Box 506551, Dubai, UAE.

Country and Region Specific Disclosures

U.K. and European Economic Area (EEA): Unless specified to the contrary, issued and approved for distribution in the U.K. and the EEA by JPMS plc. Investment research issued by JPMS plc has been prepared in accordance with JPMS plc's policies for managing conflicts of interest arising as a result of publication and distribution of investment research. Many European regulators require a firm to establish, implement and maintain such a policy. This report has been issued in the U.K. only to persons of a kind described in Article 19 (5), 38, 47 and 49 of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (all such persons being referred to as "relevant persons"). This document must not be acted on or relied on by persons who are not relevant persons. Any investment or investment activity to which this document relates is only available to relevant persons and will be engaged in only with relevant persons. In other EEA countries, the report has been issued to persons regarded as professional investors (or equivalent) in their home jurisdiction. Australia: This material is issued and distributed by JPMSAL in Australia to "wholesale clients" only. This material does not take into account the specific investment objectives, financial situation or particular needs of the recipient. The recipient of this material must not distribute it to any third party or outside Australia without the prior written consent of JPMSAL. For the purposes of this paragraph the term "wholesale client" has the meaning given in section 761G of the Corporations Act 2001. Germany: This material is distributed in Germany by J.P. Morgan Securities plc, Frankfurt Branch and J.P.Morgan Chase Bank, N.A., Frankfurt Branch which are regulated by the Bundesanstalt für Finanzdienstleistungsaufsicht. Hong Kong: The 1% ownership disclosure as of the previous month end satisfies the requirements under Paragraph 16.5(a) of the Hong Kong Code of Conduct for Persons Licensed by or Registered with the Securities and Futures Commission. (For research published within the first ten days of the month, the disclosure may be based on the month end data from two months prior.) J.P. Morgan Broking (Hong Kong) Limited is the liquidity provider/market maker for derivative warrants, callable bull bear contracts and stock options listed on the Stock Exchange of Hong Kong Limited. An updated list can be found on HKEx website: http://www.hkex.com.hk. Japan: There is a risk that a loss may occur due to a change in the price of the shares in the case of share trading, and that a loss may occur due to the exchange rate in the case of foreign share trading. In the case of share trading, JPMorgan Securities Japan Co., Ltd., will be receiving a brokerage fee and consumption tax (shouhizei) calculated by multiplying the executed price by the commission rate which was individually agreed between JPMorgan Securities Japan Co., Ltd., and the customer in advance. Financial Instruments Firms: JPMorgan Securities Japan Co., Ltd., Kanto Local Finance Bureau (kinsho) No. 82 Participating Association / Japan Securities Dealers Association, The Financial Futures Association of Japan, Type II Financial Instruments Firms Association and Japan Investment Advisers Association. Korea: This report may have been edited or contributed to from time to time by affiliates of J.P. Morgan Securities (Far East) Limited, Seoul Branch. Singapore: As at the date of this report, JPMSS is a designated market maker for certain structured warrants listed on the Singapore Exchange where the underlying securities may be the securities discussed in this report. Arising from its role as designated market maker for such structured warrants, JPMSS may conduct hedging activities in respect of such underlying securities and hold or have an interest in such underlying securities as a result. The updated list of structured warrants for which JPMSS acts as designated market maker may be found on the website of the Singapore Exchange Limited: http://www.sgx.com.sg. In addition, JPMSS and/or its affiliates may also have an interest or holding in any of the securities discussed in this report – please see the Important Disclosures section above. For securities where the holding is 1% or greater, the holding may be found in the Important Disclosures section above. For all other securities mentioned in this report, JPMSS and/or its affiliates may have a holding of less than 1% in such securities and may trade them in ways different from those discussed in this report. Employees of JPMSS and/or its affiliates not involved in the preparation of this report may have investments in the securities (or derivatives of such securities) mentioned in this report and may trade them in ways different from those discussed in this report. Taiwan: This material is issued and distributed in Taiwan by J.P. Morgan Securities (Taiwan) Limited. India: For private circulation only, not for sale. Pakistan: For private circulation only, not for sale. New Zealand: This material is issued and distributed by JPMSAL in New Zealand only to persons whose principal business is the investment of money or who, in the course of and for the purposes of their business, habitually invest money. JPMSAL does not issue or distribute this material to members of "the public" as determined in accordance with section 3 of the Securities Act 1978. The recipient of this material must not distribute it to any third party or outside New Zealand without the prior written consent of JPMSAL. Canada: The information contained herein is not, and under no circumstances is to be construed as, a prospectus, an advertisement, a public offering, an offer to sell securities described herein, or solicitation of an offer to buy securities described herein, in Canada or any province or territory thereof. Any offer or sale of the securities described herein in Canada will be made only under an exemption from the requirements to file a prospectus with the relevant Canadian securities regulators and only by a dealer properly registered under applicable securities laws or, alternatively, pursuant to an exemption from the dealer registration requirement in the relevant province or territory of Canada in which such offer or sale is made. The information contained herein is under no circumstances to be construed as investment advice in any province or territory of Canada and is not tailored to the needs of the recipient. To the extent that the information contained herein references securities of an issuer incorporated, formed or created under the laws of Canada or a province or territory of Canada, any trades in such securities must be conducted through a dealer registered in Canada. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed judgment upon these materials, the information contained herein or the merits of the securities described herein, and any representation to the contrary is an offence. Dubai: This report has been issued to persons regarded as professional clients as defined under the DFSA rules. Brazil: Ombudsman J.P. Morgan: 0800-7700847 / ouvidoria.jp.morgan@jpmorgan.com.

General: Additional information is available upon request. Information has been obtained from sources believed to be reliable but JPMorgan Chase & Co. or its affiliates and/or subsidiaries (collectively J.P. Morgan) do not warrant its completeness or accuracy except with respect to any disclosures relative to JPMS and/or its affiliates and the analyst's involvement with the issuer that is the subject of the research. All pricing is as of the close of market for the securities discussed, unless otherwise stated. Opinions and estimates constitute our judgment as of the date of this material and are subject to change without notice. Past performance is not indicative of future results. This material is not intended as an offer or solicitation for the purchase or sale of any financial instrument. The opinions and recommendations herein do not take into account individual client circumstances, objectives, or needs and are not intended as recommendations of particular securities, financial instruments or strategies to particular clients. The recipient of this report must make its own independent decisions regarding any securities or financial instruments mentioned herein. JPMS distributes in the U.S. research published by non-U.S. affiliates and accepts responsibility for its contents. Periodic updates may be provided on companies/industries based on company specific developments or announcements, market conditions or any other publicly available information. Clients should contact analysts and execute transactions through a J.P. Morgan subsidiary or affiliate in their home jurisdiction unless governing law permits otherwise.

"Other Disclosures" last revised April 09, 2016.

Copyright 2016 JPMorgan Chase & Co. All rights reserved. This report or any portion hereof may not be reprinted, sold or redistributed without the written consent of J.P. Morgan.