BARCLAYS

Li & Fung Limited 2014 was dim; 2015 should be better

Numbers far lower than consensus: While our core operating profit (COP) and net income forecasts were well below consensus, the actual numbers came in even lower. This was largely due to the higher than expected increase in overhead costs as the firm looks to invest in new initiatives. But it was also partly to do with slightly lower gross margins from a shift in business from Principal to Agency. We have cut our COP for 2015/16 by 7% and our target price by 3% to HK\$8.5.

Revenue growth from here on can still help drive growth: Despite working with the lower 2014 level commission rates, we note that a 6% revenue growth can drive an additional cUS\$150m in gross profits, which could well convert into a c100m increase in core operating profit with overhead costs increasing far more gradually. And this could translate into a much higher delta on the net income line. The business is now highly leveraged to top-line growth, but this also means there is little room now to not fall short of delivering mid single-digit revenue growth.

e-Commerce shift is a structural headwind but could be an opportunity: While the ecommerce threat has traditional retailers worldwide in disarray, it also offers the opportunity to work directly with Brands and to convert the e-retailers into customers. Hopefully, stronger consumer sentiment in the US will help too.

Valuation and risks: We have trimmed our COP forecasts by c7% for 2015/16 and our target price by 3% to HK\$8.5. We believe the c5% trailing yield offers some cushion and note that the stock is on an undemanding 14x 2015 and 12x 2016 cash earnings, given the large non-cash expenses on the P&L. Today's numbers will likely disappoint the Street but a short-term decline may offer good yield exposure if not a growth story.

0494.HK: Financial and Valuation Metrics EPS USD

FY Dec	2012	2013	2014	2015	2016
EPS	0.07A	0.08A	0.06E	0.06E	0.07E
Previous EPS	0.07A	0.06A	0.06E	0.06E	0.07E
P/E	14.5	12.5	16.0	18.1	15.3

Source: Barclays Research.

Barclays Capital Inc. and/or one of its affiliates 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.

This research report has been prepared in whole or in part by equity research analysts based outside the US who are not registered/qualified as research analysts with FINRA.

PLEASE SEE ANALYST CERTIFICATION(S) AND IMPORTANT DISCLOSURES BEGINNING ON PAGE 6.

Equity Research

Retail | Asia ex-Japan General Retail 19 March 2015

Stock Rating	EQUAL WEIGHT
-	Unchanged
Industry View	NFUTRAI
	Unchanged
Price Target	HKD 8.50
lowered	-2% from HKD 8.70
Price (19-Mar-2015)	HKD 8.03
Potential Upside/Downside	e +6%
Tickers	494 HK / 0494.HK
Market Cap (USD mn)	8653
Shares Outstanding (mn)	8360.40
Free Float (%)	65.80
52 Wk Avg Daily Volume (r	·
52 Wk Avg Daily Value (US	,
Dividend Yield (%)	5.9
Return on Equity TTM (%)	16.28
Current BVPS (USD)	0.63
Source: Thomson Reuters	
Price Performance	Exchange-HKG
52 Week range	HKD 10.70-7.06
13 -	
12 - WM	
11 - W w	
9-	m
8 -	In a mor
7 -	Curre V
Apr-2014 Jul-2014 Oct-	2014 Jan-2015
Link to Barclays Live for interactive of	charting

Asia ex-Japan General Retail

Vineet Sharma, CFA +852 2903 4609 v.sharma@barclays.com Barclays Bank, Hong Kong

Ally Wang +852 2903 4261 ally.wang@barclays.com Barclays Bank, Hong Kong

Asia ex-Japan General Retail

Li & Fung Limited (0494.HK)

Income statement (\$mn)	2013A	2014E	2015E	2016E	CAGR
Revenue	19,026	19,288	20,451	21,685	4.5%
EBITDA	772	621	727	817	1.9%
EBIT	737	604	711	804	2.9%
Pre-tax income	682	628	583	682	0.0%
Net income	694	541	479	566	-6.6%
EPS (reported) (\$)	0.08	0.06	0.06	0.07	-6.6%
Diluted shares (mn)	8,356.2	8,356.3	8,356.2	8,356.2	0.0%
DPS (\$)	0.08	0.06	0.06	0.07	-6.6%
Margin and return data					Average
EBITDA margin (%)	4.1	3.2	3.6	3.8	3.7
EBIT margin (%)	3.5	2.8	3.2	3.4	3.2
Pre-tax margin (%)	3.6	3.3	2.8	3.1	3.2
Net margin (%)	3.6	2.8	2.3	2.6	2.9
ROIC (%)	10.7	15.8	10.3	11.3	12.0
ROA (%)	5.6	6.4	3.9	4.5	5.1
ROE (%)	12.5	17.4	8.4	9.6	12.0
Balance sheet and cash flow (\$	imn)				CAGR
Tangible fixed assets	, 440	245	618	730	18.4%
Intangible fixed assets	7,609	4,349	7,300	7,223	-1.7%
Cash and equivalents	460	539	313	366	-7.3%
Total assets	12,465	8,477	12,386	12,715	0.7%
Short and long-term debt	1,293	1,288	1,182	1,080	-5.8%
Net debt/(funds)	834	750	870	713	-5.1%
Other long-term liabilities	1,554	512	1,460	1,460	-2.1%
Total liabilities	6,916	5,367	6,913	7,028	0.5%
Shareholders' equity	5,550	3,110	5,678	5,891	2.0%
Change in working capital	97	28	-25	-22	N/A
Cash flow from operations	-278	-358	-147	-146	N/A
Capital expenditure	-59	-75	-154	-154	N/A
Free cash flow	-337	-433	-301	-300	N/A
Valuation and leverage metrics	5				Average
P/E (reported) (x)	12.5	16.0	18.1	15.3	15.5
EV/EBITDA (x)	14.8	16.5	15.8	14.0	15.3
FCF yield (%)	-3.9	-5.0	-3.5	-3.5	-4.0
EV/sales (x)	0.6	0.5	0.6	0.5	0.6
P/BV (x)	1.6	2.8	1.5	1.5	1.8
Dividend yield (%)	8.0	6.3	5.5	6.5	6.6
Total debt/capital (%)		29.3		15.5	
Net debt/EBITDA (x)	18.9 -1.1	-1.2	17.2 -1.2	-0.9	20.2 -1.1
Selected operating metrics					
Effective tax rate (%)	10.6	9.4	12.7	12.6	
Payout ratio (%)	75.7	81.4	80.5	79.6	
ι αγούι ταιίο (70)	/5./	01.4	00.0	/9.0	

Industry View: NEUTRAL

Stock Rating: EQUAL WEIGHT

Price (19-Mar-2015) Price Target	HKD 8.03 HKD 8.50	
Why Equal Weight? We think the comp to get through at least a set of tough res any evidence of an earnings pick-up. We maintain our EW rating as we do not see for a re-rating near term.	sults before e therefore	
Upside case	HKD 10.20	
The company could fare better on any rebound in US consumption on the back of further acquisitions. Upside case is based on earnings 20% above our base case forecasts.		
Downside case	HKD 6.80	

Continued deterioration in US/global consumer sentiment, margin squeeze from acquisitions, and an inability to scale recent acquisitions and cost cuts could lead to earnings 20% below our base case forecasts.

Upside/Downside scenarios



Source: Company data, Barclays Research

Note: FY End Dec

Changes in estimates

As we expect to see accelerated investment to build new teams and headcount as well as infrastructure to support new business initiatives, we have cut 2015 and 2016 core operating profit by 7% in each year, and 2015 and 2016 net profit by 10% and 9% respectively.

FIGURE 1

Li & Fung - revisions to the Barclays Research estimates for 2015 and 2016

US\$mn	2015E new	2015E old	Change	2016E new	2016E old	Change
Revenue	20,451	19,099	7.1%	21,685	20,221	7.2%
Core operating profit	711	762	-6.8%	804	866	-7.2%
Core operating margin	3.5%	4.0%	-0.5 ppts	3.7%	4.3%	-0.6 ppts
Net profit	479	530	-9.7%	566	621	-8.8%
Net margin	2.3%	2.8%	-0.5 ppts	2.6%	3.1%	-0.5 ppts
Source: Barclays Research estimate	es					

Results overview

Li & Fung reported that its 2014 recurring net profit (excluding discontinued operations) declined by 12% y/y to US\$539mn (EPS: US\$ 6.46 cents or HK\$50 cents). The company proposed a final dividend of HK\$21 cents per share, in addition to an interim dividend of HK\$13 cents and special dividend of HK\$7 cents per share; 2014 payout ratio stood at 82%.

Revenue was up by 1.4% y/y to US\$19,288mn.

- By geography, revenue from the U.S. was up by 0.1% y/y to US\$11.6bn; revenue from Europe was down by 1.2% y/y to US\$3.5bn; revenue from Asia was up by 14.3% y/y to US\$2.7bn and revenue from rest of world was down by 3.4% y/y to US\$1.5bn.
- **By division**, the trading network's revenue was down slightly by 0.5% y/y to US\$18.4bn; and logistics network's revenue was up by 66% y/y to US\$874mn. There was a small elimination of US\$16mn.
- **By product,** revenue from soft goods was up by 0.9% y/y to US\$11.7bn; revenue from hard goods was down by 2.6% y/y to US\$6.7bn and revenue from logistics rose by 63% y/y to US\$886mn.





Source: Company filings, Barclays Research.

Source: Company filings, Barclays Research.

The **gross margin** contracted by 0.4 ppts y/y to 11.3% and the **core EBIT** margin shrank by 0.8 ppts y/y to 3.1% on a combination of declining gross margin and increasing operating costs.

In terms of **core EBIT** by division, the trading network's EBIT was down by 20% y/y to US\$558mn with the EBIT margin contracting by 0.8 ppts y/y to 3.0%; and logistics network's EBIT was up by 28% y/y to US\$46mn while the EBIT margin contracting by 1.6 ppts y/y to 5.2%.

Li & Fung – financial summary					
US\$mn	2014	2013	Y/y change		
Turnover	19,288	19,026	1.4%		
Total Margin	2,244	2,294	-2.2%		
As % of turnover	11.6%	12.1%	-0.5 ppts		
Operating Costs	1,640	1,557	+5.3%		
As % of turnover	8.5%	8.2%	+0.3 ppts		
Core Operating Profit	604	737	-18.0%		
As % of turnover	3.1%	3.9%	-0.8 ppts		
Profit Attributable to Shareholders (ex-Loss from Discontinued Operations)	539	612	-11.8%		

Source: Company filings, Barclays Research.

Divisional details

Trading Network

FIGURE 4

Total revenue was down mildly by 0.5% y/y to US\$18,431mn, comprising of 63% soft goods and 37% hard goods. By geography, the US represented 62% of the division's total revenue with Europe, Asia and the rest of world accounting for 19%, 11% and 8%, respectively. Notably, company signed a number of new sourcing deals with major customers in the U.S. and continued to grow business via cross-selling. In Asia, the company secured a China distribution business for Coty (beauty brands).

The core operating profit declined by 20% y/y to US\$558mn with the EBIT margin down by 0.8 ppts y/y to 3.0%, mainly from investment in infrastructure, new product categories as well as new markets and services. In particular, the company built up its Vendor Support Services team to improve supply chain sustainability. Besides, the company also mentioned heavier-than-usual promotions launched in the U.S. as well as Europe which also adversely impacted margins.

The company maintains a global trading network covering more than 40 economies, which allows for flexibility in moving orders. The top three sourcing countries for the company remained China (49% soft goods and 51% hard goods), Vietnam (91% soft goods and 9% hard goods) and Bangladesh (99% soft goods and 1% hard goods).

Er & Fung – Frading network s financia	ar summary		
US\$mn	2014	2013	Y/y change
Turnover	18,431	18,514	-0.5%
Total Margin	2,004	2,100	-4.6%
As % of turnover	10.9%	11.3%	-0.4 ppts
Operating Costs	1,446	1,398	3.4%
As % of turnover	7.8%	7.6%	+0.2 ppts
Core Operating Profit	558	701	-20.4%
As % of turnover	3.0%	3.8%	-0.8 ppts

FIGURE 5

Li & Fung – Trading network's financial summary

Source: Company filings, Barclays Research.

Logistics Network

In 2014, the logistics network, which accounted for 4.5% of total revenue, displayed robust revenue growth of 66%, mainly organic growth via new business wins, geographic expansion and growing market share. For in-country logistics, China, Malaysia, and the Philippines registered strong performance. While for global freight management, the company's acquisition of CCL (China Container Line) significantly added scale to its freight forwarding business. In terms of revenue by geography, 56% of revenue was from China, 30% was from the rest of Asia and 14% was from the rest of the world.

The division's core operating profit saw a 28% y/y increase to US\$46mn although the core EBIT margin contracted by 1.6 ppts y/y to 5.2% as a result of the China Container Line acquisition as the freight forwarding business had a lower operating margin than in-country logistics (which was in-line with the industry standard).

FIGURE 6

Li & Fung – Logistics network's financial summary

14 201	3 Y/y change
74 52	+66.0%
40 19	+23.6%
% 36.9%	% -9.4 ppts
94 15	·9 +22.5%
% 30.2%	% -8.0 ppts
46 3	6 +28.1%
% 6.8%	% -1.6 ppts
	40 19 % <i>36.99</i> 94 15 % <i>30.29</i> 46 3

Source: Company filings, Barclays Research.

ANALYST(S) CERTIFICATION(S):

I, Vineet Sharma, CFA, hereby certify (1) that the views expressed in this research report accurately reflect my personal views about any or all of the subject securities or issuers referred to in this research report and (2) no part of my compensation was, is or will be directly or indirectly related to the specific recommendations or views expressed in this research report.

IMPORTANT DISCLOSURES

Barclays Research is a part of the Investment Bank of Barclays Bank PLC and its affiliates (collectively and each individually, "Barclays"). For current important disclosures regarding companies that are the subject of this research report, please send a written request to: Barclays Research Compliance, 745 Seventh Avenue, 14th Floor, New York, NY 10019 or refer to http://publicresearch.barclays.com or call 212-526-1072.

The analysts responsible for preparing this research report have received compensation based upon various factors including the firm's total revenues, a portion of which is generated by investment banking activities.

Research analysts employed outside the US by affiliates of Barclays Capital Inc. are not registered/qualified as research analysts with FINRA. These analysts may not be associated persons of the member firm and therefore may not be subject to NASD Rule 2711 and incorporated NYSE Rule 472 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst's account.

Analysts regularly conduct site visits to view the material operations of covered companies, but Barclays policy prohibits them from accepting payment or reimbursement by any covered company of their travel expenses for such visits.

In order to access Barclays Statement regarding Research Dissemination Policies and Procedures, please refer to https://live.barcap.com/publiccp/RSR/nyfipubs/disclaimer/disclaimer/disclaimer-research-dissemination.html. In order to access Barclays Research Conflict Management Policy Statement, please refer to: https://live.barcap.com/publiccp/RSR/nyfipubs/disclaimer/conflict-management.html.

The Investment Bank's Research Department produces various types of research including, but not limited to, fundamental analysis, equity-linked analysis, quantitative analysis, and trade ideas. Recommendations contained in one type of research product may differ from recommendations contained in other types of research, whether as a result of differing time horizons, methodologies, or otherwise.

Primary Stocks (Ticker, Date, Price)

Li & Fung Limited (0494.HK, 19-Mar-2015, HKD 8.03), Equal Weight/Neutral, J/K/N

Disclosure Legend:

A: Barclays Bank PLC and/or an affiliate has been lead manager or co-lead manager of a publicly disclosed offer of securities of the issuer in the previous 12 months.

B: An employee of Barclays Bank PLC and/or an affiliate is a director of this issuer.

C: Barclays Bank PLC and/or an affiliate is a market-maker and/or liquidity provider in equity securities issued by this issuer or one of its affiliates.

D: Barclays Bank PLC and/or an affiliate has received compensation for investment banking services from this issuer in the past 12 months.

E: Barclays Bank PLC and/or an affiliate expects to receive or intends to seek compensation for investment banking services from this issuer within the next 3 months.

F: Barclays Bank PLC and/or an affiliate beneficially owned 1% or more of a class of equity securities of the issuer as of the end of the month prior to the research report's issuance.

G: One of the analysts on the coverage team (or a member of his or her household) owns shares of the common stock of this issuer.

H: This issuer beneficially owns 5% or more of any class of common equity securities of Barclays Bank PLC.

I: Barclays Bank PLC and/or an affiliate has a significant financial interest in the securities of this issuer.

J: Barclays Bank PLC and/or an affiliate trades regularly in the securities of this issuer.

K: Barclays Bank PLC and/or an affiliate has received non-investment banking related compensation from this issuer within the past 12 months.

L: This issuer is, or during the past 12 months has been, an investment banking client of Barclays Bank PLC and/or an affiliate.

M: This issuer is, or during the past 12 months has been, a non-investment banking client (securities related services) of Barclays Bank PLC and/or an affiliate.

N: This issuer is, or during the past 12 months has been, a non-investment banking client (non-securities related services) of Barclays Bank PLC and/or an affiliate.

O: Barclays Capital Inc., through Barclays Market Makers, is a Designated Market Maker in this issuer's stock, which is listed on the New York Stock Exchange. At any given time, its associated Designated Market Maker may have "long" or "short" inventory position in the stock; and its associated Designated Market Maker may be on the opposite side of orders executed on the floor of the New York Stock Exchange in the stock.

P: A partner, director or officer of Barclays Capital Canada Inc. has, during the preceding 12 months, provided services to the subject company for remuneration, other than normal course investment advisory or trade execution services.

Q: Barclays Bank PLC and/or an affiliate is a Corporate Broker to this issuer.

R: Barclays Capital Canada Inc. and/or an affiliate has received compensation for investment banking services from this issuer in the past 12 months.

IMPORTANT DISCLOSURES CONTINUED

S: Barclays Capital Canada Inc. is a market-maker in an equity or equity related security issued by this issuer.

T: Barclays Bank PLC and/or an affiliate is providing equity advisory services to this issuer.

Risk Disclosure(s)

Master limited partnerships (MLPs) are pass-through entities structured as publicly listed partnerships. For tax purposes, distributions to MLP unit holders may be treated as a return of principal. Investors should consult their own tax advisors before investing in MLP units.

Guide to the Barclays Fundamental Equity Research Rating System:

Our coverage analysts use a relative rating system in which they rate stocks as Overweight, Equal Weight or Underweight (see definitions below) relative to other companies covered by the analyst or a team of analysts that are deemed to be in the same industry (the "industry coverage universe").

In addition to the stock rating, we provide industry views which rate the outlook for the industry coverage universe as Positive, Neutral or Negative (see definitions below). A rating system using terms such as buy, hold and sell is not the equivalent of our rating system. Investors should carefully read the entire research report including the definitions of all ratings and not infer its contents from ratings alone.

Stock Rating

Overweight - The stock is expected to outperform the unweighted expected total return of the industry coverage universe over a 12-month investment horizon.

Equal Weight - The stock is expected to perform in line with the unweighted expected total return of the industry coverage universe over a 12month investment horizon.

Underweight - The stock is expected to underperform the unweighted expected total return of the industry coverage universe over a 12-month investment horizon.

Rating Suspended - The rating and target price have been suspended temporarily due to market events that made coverage impracticable or to comply with applicable regulations and/or firm policies in certain circumstances including where the Investment Bank of Barclays Bank PLC is acting in an advisory capacity in a merger or strategic transaction involving the company.

Industry View

Positive - industry coverage universe fundamentals/valuations are improving.

Neutral - industry coverage universe fundamentals/valuations are steady, neither improving nor deteriorating.

Negative - industry coverage universe fundamentals/valuations are deteriorating.

Below is the list of companies that constitute the "industry coverage universe":

Asia ex-Japan General Retail

Anta Sports Products Ltd. (2020.HK)	Bata (BATA.NS)	Belle International Holdings Ltd. (1880.HK)
BGF Retail (027410.KS)	Cheil Industries (028260.KS)	Chow Tai Fook Jewellery Group Ltd. (1929.HK)
CJ O Shopping (035760.KQ)	E-Mart (139480.KS)	Esprit Holdings Limited (0330.HK)
Golden Eagle Retail Group Ltd. (3308.HK)	Gome Electrical Appliances (0493.HK)	Gourmet Master (2723.TW)
GS Home Shopping (028150.KQ)	GS Retail (007070.KS)	Hyundai Department Store (069960.KS)
Hyundai Home Shopping (057050.KS)	Jubilant Foodworks (JUBI.NS)	L'Occitane International (0973.HK)
Li & Fung Limited (0494.HK)	Li Ning Co., Ltd. (2331.HK)	Lifestyle International Holdings Ltd. (1212.HK)
Lotte Shopping (023530.KS)	Luk Fook Holdings (International) Limited (0590.HK)	Page Industries (PAGE.NS)
Parkson Retail Group Ltd. (3368.HK)	PRADA S.p.A. (1913.HK)	President Chain Store (2912.TW)
Sa Sa International (0178.HK)	Samsonite International (1910.HK)	Shinsegae (004170.KS)
Titan Industries (TITN.NS)	Trinity Ltd. (0891.HK)	Wowprime (2727.TW)

Distribution of Ratings:

Barclays Equity Research has 2684 companies under coverage.

43% have been assigned an Overweight rating which, for purposes of mandatory regulatory disclosures, is classified as a Buy rating; 54% of companies with this rating are investment banking clients of the Firm.

41% have been assigned an Equal Weight rating which, for purposes of mandatory regulatory disclosures, is classified as a Hold rating; 47% of companies with this rating are investment banking clients of the Firm.

14% have been assigned an Underweight rating which, for purposes of mandatory regulatory disclosures, is classified as a Sell rating; 42% of companies with this rating are investment banking clients of the Firm.

Guide to the Barclays Research Price Target:

Each analyst has a single price target on the stocks that they cover. The price target represents that analyst's expectation of where the stock will trade in the next 12 months. Upside/downside scenarios, where provided, represent potential upside/potential downside to each analyst's price

IMPORTANT DISCLOSURES CONTINUED

target over the same 12-month period.

Top Picks:

Barclays Equity Research's "Top Picks" represent the single best alpha-generating investment idea within each industry (as defined by the relevant "industry coverage universe"), taken from among the Overweight-rated stocks within that industry. Barclays Equity Research publishes global and regional "Top Picks" reports every quarter and analysts may also publish intra-quarter changes to their Top Picks, as necessary. While analysts may highlight other Overweight-rated stocks in their published research in addition to their Top Pick, there can only be one "Top Pick" for each industry. The current list of Top Picks is available on https://live.barcap.com/go/RSL/servlets/dv.search?pubType=4526&contentType=latest.

To see a list of companies that comprise a particular industry coverage universe, please go to http://publicresearch.barclays.com.

Barclays offices involved in the production of equity research:

London Barclays Bank PLC (Barclays, London) New York Barclays Capital Inc. (BCI, New York) Tokyo Barclays Securities Japan Limited (BSJL, Tokyo) São Paulo Banco Barclays S.A. (BBSA, São Paulo) Hong Kong Barclays Bank PLC, Hong Kong branch (Barclays Bank, Hong Kong) Toronto Barclays Capital Canada Inc. (BCCI, Toronto) Johannesburg Absa Bank Limited (Absa, Johannesburg) Mexico City Barclays Bank Mexico, S.A. (BBMX, Mexico City) Taiwan Barclays Capital Securities Taiwan Limited (BCSTW, Taiwan) Seoul Barclays Capital Securities Limited (BCSL, Seoul) Mumbai Barclays Securities (India) Private Limited (BSIPL, Mumbai) Singapore Barclays Bank PLC, Singapore branch (Barclays Bank, Singapore)

IMPORTANT DISCLOSURES CONTINUED



Link to Barclays Live for interactive charting

J: Barclays Bank PLC and/or an affiliate trades regularly in the securities of Li & Fung Limited.

K: Barclays Bank PLC and/or an affiliate has received non-investment banking related compensation from Li & Fung Limited within the past 12 months.

N: Li & Fung Limited is, or during the past 12 months has been, a non-investment banking client (non-securities related services) of Barclays Bank PLC and/or an affiliate.

Valuation Methodology: Our 12-month price target of HK\$8.5 on Li & Fung is based on a target P/E of 19x applied to our 2015E EPS.

Risks which May Impede the Achievement of the Barclays Research Price Target: Key downside risks include the company's ability of management to achieve its stated Three-Year Plan targets; while upside risks include better-than-expected revenue growth and margins improvement. Key lag to immediate performance is that one will have to wait until 2H15 to see if Plan progression is on course.

DISCLAIMER:

This publication has been prepared by the Investment Bank of Barclays Bank PLC and/or one or more of its affiliates (collectively and each individually, "Barclays"). It has been issued by one or more Barclays legal entities that are a part of the Investment Bank as provided below. It is provided to our clients for information purposes only, and Barclays makes no express or implied warranties, and expressly disclaims all warranties of merchantability or fitness for a particular purpose or use with respect to any data included in this publication. Barclays will not treat unauthorized recipients of this report as its clients. Prices shown are indicative and Barclays is not offering to buy or sell or soliciting offers to buy or sell any financial instrument.

Without limiting any of the foregoing and to the extent permitted by law, in no event shall Barclays, nor any affiliate, nor any of their respective officers, directors, partners, or employees have any liability for (a) any special, punitive, indirect, or consequential damages; or (b) any lost profits, lost revenue, loss of anticipated savings or loss of opportunity or other financial loss, even if notified of the possibility of such damages, arising from any use of this publication or its contents.

Other than disclosures relating to Barclays, the information contained in this publication has been obtained from sources that Barclays Research believes to be reliable, but Barclays does not represent or warrant that it is accurate or complete. Barclays is not responsible for, and makes no warranties whatsoever as to, the content of any third-party web site accessed via a hyperlink in this publication and such information is not incorporated by reference.

The views in this publication are those of the author(s) and are subject to change, and Barclays has no obligation to update its opinions or the information in this publication. The analyst recommendations in this publication reflect solely and exclusively those of the author(s), and such opinions were prepared independently of any other interests, including those of Barclays and/or its affiliates. This publication does not constitute personal investment advice or take into account the individual financial circumstances or objectives of the clients who receive it. The securities discussed herein may not be suitable for all investors. Barclays recommends that investors independently evaluate each issuer, security or instrument discussed herein and consult any independent advisors they believe necessary. The value of and income from any investment may fluctuate from day to day as a result of changes in relevant economic markets (including changes in market liquidity). The information herein is not intended to predict actual results, which may differ substantially from those reflected. Past performance is not necessarily indicative of future results.

This material has been issued and approved for distribution in the UK and European Economic Area by Barclays Bank PLC. It is being made available primarily to persons who are investment professionals as that term is defined in Article 19 of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005. It is directed at, and therefore should only be relied upon by, persons who have professional experience in matters relating to investments. The investments to which it relates are available only to such persons and will be entered into only with such persons. Barclays Bank PLC is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority and is a member of the London Stock Exchange.

The Investment Bank of Barclays Bank PLC undertakes U.S. securities business in the name of its wholly owned subsidiary Barclays Capital Inc., a FINRA and SIPC member. Barclays Capital Inc., a U.S. registered broker/dealer, is distributing this material in the United States and, in connection therewith accepts responsibility for its contents. Any U.S. person wishing to effect a transaction in any security discussed herein should do so only by contacting a representative of Barclays Capital Inc. in the U.S. at 745 Seventh Avenue, New York, New York 10019.

Non-U.S. persons should contact and execute transactions through a Barclays Bank PLC branch or affiliate in their home jurisdiction unless local regulations permit otherwise.

Barclays Bank PLC, Paris Branch (registered in France under Paris RCS number 381 066 281) is regulated by the Autorité des marchés financiers and the Autorité de contrôle prudentiel. Registered office 34/36 Avenue de Friedland 75008 Paris.

This material is distributed in Canada by Barclays Capital Canada Inc., a registered investment dealer, a Dealer Member of IIROC (www.iiroc.ca), and a Member of the Canadian Investor Protection Fund(CIPF).

Subject to the conditions of this publication as set out above, the Corporate & Investment Banking Division of Absa Bank Limited, an authorised financial services provider (Registration No.: 1986/004794/06. Registered Credit Provider Reg No NCRCP7), is distributing this material in South Africa. Absa Bank Limited is regulated by the South African Reserve Bank. This publication is not, nor is it intended to be, advice as defined and/or contemplated in the (South African) Financial Advisory and Intermediary Services Act, 37 of 2002, or any other financial, investment, trading, tax, legal, accounting, retirement, actuarial or other professional advice or service whatsoever. Any South African person or entity wishing to effect a transaction in any security discussed herein should do so only by contacting a representative of the Corporate & Investment Banking Division of Absa Bank Limited in South Africa, 15 Alice Lane, Sandton, Johannesburg, Gauteng 2196. Absa Bank Limited is a member of the Barclays group.

In Japan, foreign exchange research reports are prepared and distributed by Barclays Bank PLC Tokyo Branch. Other research reports are distributed to institutional investors in Japan by Barclays Securities Japan Limited. Barclays Securities Japan Limited is a joint-stock company incorporated in Japan with registered office of 6-10-1 Roppongi, Minato-ku, Tokyo 106-6131, Japan. It is a subsidiary of Barclays Bank PLC and a registered financial instruments firm regulated by the Financial Services Agency of Japan. Registered Number: Kanto Zaimukyokucho (kinsho) No. 143.

Barclays Bank PLC, Hong Kong Branch is distributing this material in Hong Kong as an authorised institution regulated by the Hong Kong Monetary Authority. Registered Office: 41/F, Cheung Kong Center, 2 Queen's Road Central, Hong Kong.

Information on securities/instruments that trade in Taiwan or written by a Taiwan-based research analyst is distributed by Barclays Capital Securities Taiwan Limited to its clients. The material on securities/instruments not traded in Taiwan is not to be construed as 'recommendation' in Taiwan. Barclays Capital Securities Taiwan Limited does not accept orders from clients to trade in such securities. This material may not be distributed to the public media or used by the public media without prior written consent of Barclays.

This material is distributed in South Korea by Barclays Capital Securities Limited, Seoul Branch.

All equity research material is distributed in India by Barclays Securities (India) Private Limited (SEBI Registration No: INB/INF 231292732 (NSE), INB/INF 011292738 (BSE) | Corporate Identification Number: U67120MH2006PTC161063 | Registered Office: 208 | Ceejay House | Dr. Annie Besant Road | Shivsagar Estate | Worli | Mumbai - 400 018 | India, Phone: + 91 22 67196363). Other research reports are distributed in India by Barclays Bank PLC, India Branch.

Barclays Bank PLC Frankfurt Branch distributes this material in Germany under the supervision of Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin).

This material is distributed in Malaysia by Barclays Capital Markets Malaysia Sdn Bhd.

This material is distributed in Brazil by Banco Barclays S.A.

This material is distributed in Mexico by Barclays Bank Mexico, S.A.

Barclays Bank PLC in the Dubai International Financial Centre (Registered No. 0060) is regulated by the Dubai Financial Services Authority (DFSA). Principal place of business in the Dubai International Financial Centre: The Gate Village, Building 4, Level 4, PO Box 506504, Dubai, United Arab Emirates. Barclays

Bank PLC-DIFC Branch, may only undertake the financial services activities that fall within the scope of its existing DFSA licence. Related financial products or services are only available to Professional Clients, as defined by the Dubai Financial Services Authority.

Barclays Bank PLC in the UAE is regulated by the Central Bank of the UAE and is licensed to conduct business activities as a branch of a commercial bank incorporated outside the UAE in Dubai (Licence No.: 13/1844/2008, Registered Office: Building No. 6, Burj Dubai Business Hub, Sheikh Zayed Road, Dubai (City) and Abu Dhabi (Licence No.: 13/952/2008, Registered Office: Al Jazira Towers, Hamdan Street, PO Box 2734, Abu Dhabi).

Barclays Bank PLC in the Qatar Financial Centre (Registered No. 00018) is authorised by the Qatar Financial Centre Regulatory Authority (QFCRA). Barclays Bank PLC-QFC Branch may only undertake the regulated activities that fall within the scope of its existing QFCRA licence. Principal place of business in Qatar: Qatar Financial Centre, Office 1002, 10th Floor, QFC Tower, Diplomatic Area, West Bay, PO Box 15891, Doha, Qatar. Related financial products or services are only available to Business Customers as defined by the Qatar Financial Centre Regulatory Authority.

This material is distributed in the UAE (including the Dubai International Financial Centre) and Qatar by Barclays Bank PLC.

This material is distributed in Russia by OOO Barclays Capital, affiliated company of Barclays Bank PLC, registered and regulated in Russia by the FSFM. Broker License #177-11850-100000; Dealer License #177-11855-010000. Registered address in Russia: 125047 Moscow, 1st Tverskaya-Yamskaya str. 21.

This material is distributed in Singapore by the Singapore branch of Barclays Bank PLC, a bank licensed in Singapore by the Monetary Authority of Singapore. For matters in connection with this report, recipients in Singapore may contact the Singapore branch of Barclays Bank PLC, whose registered address is One Raffles Quay Level 28, South Tower, Singapore 048583.

Barclays Bank PLC, Australia Branch (ARBN 062 449 585, AFSL 246617) is distributing this material in Australia. It is directed at 'wholesale clients' as defined by Australian Corporations Act 2001.

IRS Circular 230 Prepared Materials Disclaimer: Barclays does not provide tax advice and nothing contained herein should be construed to be tax advice. Please be advised that any discussion of U.S. tax matters contained herein (including any attachments) (i) is not intended or written to be used, and cannot be used, by you for the purpose of avoiding U.S. tax-related penalties; and (ii) was written to support the promotion or marketing of the transactions or other matters addressed herein. Accordingly, you should seek advice based on your particular circumstances from an independent tax advisor.

© Copyright Barclays Bank PLC (2015). All rights reserved. No part of this publication may be reproduced or redistributed in any manner without the prior written permission of Barclays. Barclays Bank PLC is registered in England No. 1026167. Registered office 1 Churchill Place, London, E14 5HP. Additional information regarding this publication will be furnished upon request.

US08-000001