Weekly Commentary

14 August 2017

Expect delays

The Reserve Bank left the Official Cash Rate unchanged at 1.75% in its August *Monetary Policy Statement*, and the guidance that it provided was very similar to its previous reviews. The RBNZ believes that monetary policy will need to remain accommodative for a long time, to support growth and guide inflation towards the target on a sustained basis. We agree with that view, and we think that interest rate hikes will be delayed a lot longer than the market expects.

There was surprisingly little change in the latest *MPS*. Other than updating for recent data outturns, the RBNZ made few changes to its economic forecasts compared to May. The weaker than expected consumer prices in the June quarter were treated as temporary, though they will linger in the annual inflation rate calculations over the coming year. As a result, the RBNZ now expects inflation to briefly drop below 1% in the March 2018 quarter, before rising back to the 2% midpoint of the target by early 2019.

Similarly, the softer than expected GDP growth over the last two quarters was viewed as temporary. The RBNZ expects GDP to grow by 3.4% over this year and 3.6% next year, both of which would be well above the country's potential growth rate. Indeed, since the RBNZ also expects population growth to slow over this time, this implies a faster rate of per-capita GDP growth than this economy has achieved at any point to date in this cycle. The RBNZ's forecasts imply a shift from a zero to a positive output gap over the next couple of years, and a subsequent lift in the pace of non-tradables inflation.

That lift in non-tradables inflation will be needed, because the outlook for tradables inflation remains soft. The RBNZ has for some for time been highlighting that the global economy still has substantial spare capacity and that worldwide inflation remains slow. The lack of import price inflation is compounded by the lingering strength of the New Zealand dollar, which is running about 3% higher today than the RBNZ had assumed in its May forecasts. The RBNZ still expects the New Zealand dollar to decline gradually over the next few years, so the recent rise in the currency is expected to suppress inflation over the next year but not over the medium term. Still, there was some escalation of the RBNZ's concerns in the language of the statement, which noted that a lower exchange rate is "needed" (as opposed to "would help") to rebalance the outlook for growth.

In a subsequent interview, Assistant Governor McDermott confirmed that this change of wording was meant to nudge the market towards considering the possibility of the RBNZ intervening in the foreign exchange market. The NZD fell after the interview was published, having initially risen after the *MPS*. We don't think the message was any different, though: it still feels like the RBNZ is giving the exchange rate a nudge, whereas we and others in the market were expecting more of a shove.

The RBNZ acknowledged the slowdown in the housing market over the last year, but it remains concerned about the risk of a resurgence in house prices. This is a significant point of difference for us. We believe that the rise in mortgage rates since 2016 has played a major role in cooling the housing market, and will continue to do so. A weaker housing market would mean a softer path for spending, investment and housing construction, and less home-grown inflation pressure than the RBNZ is looking for.

Expect delays continued

The July housing figures, released after the *MPS*, support our view. House sales have been falling steadily over the last year, and are now at a three-year low. House prices in Auckland continued their gradual decline, now down 4% from their peak, and prices were flat in the rest of the country for the second month in a row. There are still some pockets of strength, but prices are off their peaks in a growing number of regions.

We expect the rise in mortgage rates to persist, as it's the product of two factors that are beyond the control of domestic monetary policy: rising global interest rates, and increased competition among banks for deposits. That points to the housing market remaining very soft over the next year or two; the RBNZ's forecast of even a relatively modest 4% rise in prices this year looks too high.

The RBNZ's interest rate projections this time were identical to the May *MPS*, with a flat track for the next two years followed by a gentle upturn. We've been broadly in agreement with that view for some time, and if anything we see downside risks to the RBNZ's view on growth and inflation pressures.

We will be releasing our latest quarterly Economic Overview on Tuesday, which will detail how our views on the economy

House sales and price growth sales 000 %v 12 30 --- House sales (left axis) 25 House prices (right axis) 10 20 15 8 10 5 6 0 4 -5 -10 2 -15 Source: REINZ 0 -20 2002 2004 2006 2008 2010 2012 2014 2016

have evolved. One change that we have already made to our forecasts is to push out the expected timing of OCR hikes even further. Previously, we expected the first hike to be delayed until the March quarter of 2019; we now expect it to be in the December quarter of that year.

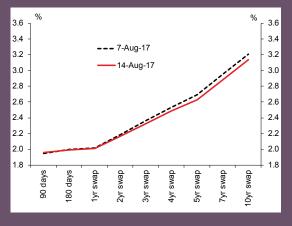
As we've noted before, it's hard to be specific about dates over that sort of time horizon. The bottom line is that we think the market's insistence on pricing in an OCR hike by August 2018 is well off the mark.

Fixed vs Floating for mortgages

For borrowers with a deposit of 20% or more, the best value lies in the two-year rate or shorter terms. Threeto five-year rates seem high relative to where we think short-term rates are going to go over that time. That said, these rates are most likely to be pressured higher by global market trends, so borrowers who prefer the security of a longer term still have a chance to lock in at historically quite low levels.

Floating mortgage rates usually work out to be more expensive for borrowers than short-term fixed rates such as the six-month rate. However, floating may still be the preferred option for those who require flexibility in their repayments.

NZ interest rates



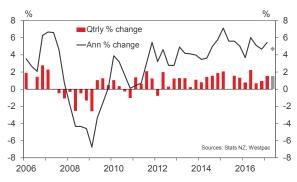
The week ahead

NZ Q2 real retail sales

Aug 14, Last: +1.5%, Westpac f/c: +1.5%, Mkt f/c: +0.8%

- Retail spending rebounded in March, rising by 1.5%. Much of this
 was the result of a very large increase in motor vehicle sales.
 However, there were gains in most categories including a strong lift
 in categories linked to the tourism sector.
- We expect another solid gain in the June quarter, underpinned by solid growth in core categories. Once again, much of the strength in spending is expected to be in areas related to tourism. During the June quarter, we saw strong tourist inflows on the back of high profile sporting events, like the Lions tour. This provided a large boost to spending in areas like food services and accommodation. We also expect to see gains in other categories, supported by softness in import prices and continued strong population growth.

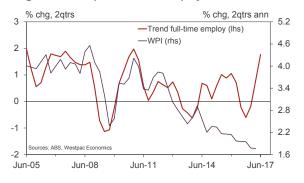
Real retail sales



Aus Q2 Wage Price Index %qtr Aug 16, Last: 0.5%% WBC f/c: 0.5% Mkt f/c: 0.5%, Range: 0.5% to 0.7%

- Total hourly wages ex bonuses gained 0.5% in Q1 which was a lift from 0.4% in Q4 (which was revised down from 0.5% and is now the record low quarter print). Nevertheless it is holding surprisingly soft momentum with the annual rate at a historical low of 1.9%yr.
- The relative softness in the labour market seen in broader measures, such as underemployment where a worker is willing and able to work more hours than they do, has coincided with the record low in wage growth.
- Those looking for a minimum wage increase in the Q2 WPI are one quarter too early as the increase was not applied until July 1, 2017. So while it is true that the minimum wage rise is likely to boost wage inflation back though 2%yr in Q3, for Q2 we are looking for modest 0.5%qtr/1.9%yr print.

Wages fail to respond to lift in employment

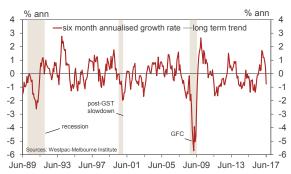


Aus Jul Westpac-MI Leading Index

Aug 16, Last: -0.76%

The six month annualised growth rate in the Leading Index, a guide to the pace of economic activity three to nine months into the future, fell sharply from 0.51% in May to -0.76% in June, the first below trend reading since July 2016. The abrupt slowdown in momentum mainly reflects international factors including a sharp turnaround in Australia's commodity prices in Australian dollar terms. The Jul read will include updates on: the ASX200, down -1.3% vs -0.1% last month; the Westpac-MI Consumer Expectations Index, up 1.6% vs -1.4% last month; US industrial production, up 0.2% vs 0.4% last month; dwelling approvals, up 10.9% vs -5.4% last month; the Westpac-MI Unemployment Expectations Index, down -2.6% vs -3% last month; and total hours worked, up 0.3% vs 0.5% last month.

Westpac-MI Leading Index



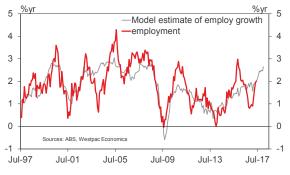
Aus June Labour Force employment '000 Aug 17, Last: 14.ok, WBC f/c: 35k

Mkt f/c: 20k, Range: 10k to 35k

- May and June were robust updates from the Labour Force survey. The recovery in employment was something that our Jobs Index had been pointing to for some time and our employment forecasts going forward incorporated on-going strength at least to year end.
- Total employment rose 14k in June compared to the market's forecast of 15k. Full-time employment surged 62.0k following on from a 53.4k gain in May. In the year full-time employment gained 175.4k/2.1%. Part-time employment fell 48k following a -15.4k in May. In the year part-time employment lifted 64.8k/1.7%, slower than full-time employment for the first time since Mar 2015.
- Employment is now running on par with our Jobs Index which is pointing to it accelerating as we near year end. Our forecast for 35k will hold the annual pace at 2.0%yr.

Jobs Index model of employment

Employment has returned to the model – where next?



The week ahead

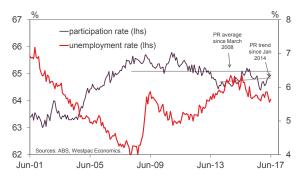
Aus June Labour Force - unemployment %

Aug 17, Last: 5.6% WBC f/c: 5.6%

Mkt f/c: 5.6%, Range: 5.4% to 5.7%

The solid June gain in employment was matched by a 0.1ppt lift in participation. This led to a 27.1k gain in the labour force thus holding the unemployment rate flat at 5.6%. However, at two decimal places the unemployment rate was 5.65% up almost 0.1ppt from 5.56% in May so it was a very small smidgen off being rounded up to 5.7%. We believe we have seen the low in unemployment and expect it to hold around 5.6% until it starts to drift higher as we move into 2018. Robust employment growth is drawing workers back into the labour force (and/or holding more in the labour force), lifting participation and preventing any near term dip in unemployment. For July, strong employment should again be associated with higher participation. At 65.1% participation should lift the labour force enough to hold unemployment at 5.6%.

Unemployment and participation rates

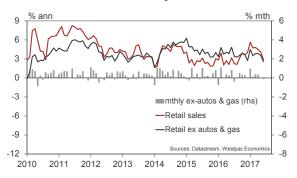


US Jul retail sales

Aug 15, Last: -0.2%, WBC 0.5%

- During the June quarter, there was a distinct loss of momentum in retail sales a 0.3% gain in April followed by a 0.1% decline in May and a 0.2% fall in June. Core retail sales (ex autos and gas) were a little stronger but still quite weak, with a gain of 0.4% followed by a flat outcome and a –0.1%.
- Through the quarter, weak inflation was a key cause of the soft nominal sales trend, both for gas and more broadly. Importantly, from the GDP consumption detail, it is evident that volumes were actually better in the June quarter than in the March quarter, when durables sales volumes were flat. The momentum in sale volumes in the June quarter points to a rebound in nominal retail sales from July as the negative influence of prices abates. We look for a 0.5% gain in headline retail sales and a similar result for the core series. This growth should continue in coming months.

Retail sales lost momentum in Q2



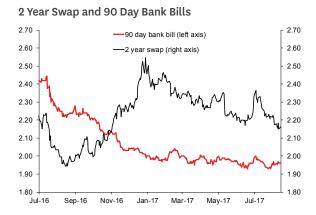
Data calendar

		Last		Westpac forecast	Risk/Comment
Mon 14					
NZ	Jul BusinessNZ PSI	58.6	-	-	Despite softening, service sector conditions remain firm.
	Q2 retail sales volumes	1.5%	0.8%	1.5%	Population growth & strong tourist season point to solid gain.
Aus	RBA Assistant Gov Financial Mkts	-	-	-	Chris Kent, speech Sydney, 9:35am.
Chn	Jul retail sales %yr	11.0%	10.8%	-	Softer employment growth a headwind.
	Jul fixed asset investment ytd%yr	8.6%	8.6%	-	Robust investment momentum continues.
	Jul industrial production ytd%yr	6.9%	6.9%	-	PMIs point to favourable conditions.
	Jul M2 money supply %yr	9.4%	9.5%	-	Tentative date 10–15 August.
	Jul new yuan loans CNYbn	1540	800	-	Tentative date 10–15 August.
	Jul aggregate financing	1776	1000	-	Tentative date 10–15 August.
Eur	Jun industrial production	1.3%	-0.4%	-	Softer month likely a one off given PMIs.
Fue 15					
Aus	Jul new vehicle sales	1.2%	-	-3.0%	Industry figures show a softer month after solid gains in Q2.
	RBA minutes	-	-	_	RBA views already widely communicated.
JK	Jul CPI	0.0%	0.0%	-	Earlier fall in GBP keeping annual rate well above 2%.
	Jun house price index	4.7%	-	-	Uncertainty is continuing to weigh on the housing market.
US	Jul import price index %yr	1.5%	-	-	Weaker USD and higher commodity prices to support.
	Aug Fed Empire state index	9.8	10.0	-	Still pointing to robust momentum.
	Jul retail sales	-0.2%	0.4%	0.5%	Autos and gas to have little net effect in July.
	Aug NAHB housing market index	64	65	-	With rates low, conditions remain favourable for sector.
	Jun business inventories	0.3%	0.4%	-	Fairly stable in first half; volatility to come?
	Jun total net TIC flows	57.3	-	-	Capital inflows into Treasury market.
Ned 16	i				
NZ	GlobalDairyTrade auction	-1.6%	-	-	Futures pointing to moderate pullback in milk powder prices.
Aus	Jul Westpac–MI Leading Index	-0.76	-	_	Sharp swing to below trend driven by commodities, yield gap.
	Q2 wage cost index	0.5%	0.5%	0.5%	The lift in minimum wages are set to appear in Q3.
JK	Jun ILO unemployment rate	4.5%	4.5%	-	Wage growth remained steady despite fall in unemployment.
Eur	Q2 GDP (preliminary)	0.6%	0.6%	0.6%	Second estimate with sectoral detail.
JS	Jul FOMC meeting minutes	-	-	_	Watch for discussion of risks to outlook.
	Jul housing starts	8.3%	0.8%	-	Trend has stabilised in recent months
	Jul building permits	9.2%	-2.8%	-	though month to month, both remain a lottery.
Thu 17					
١Z	Aug ANZ consumer confidence	125.4	-	_	Pointing to firmness in near term spending.
	Q2 producer prices	1.4%	-	0.9%	Higher dairy payout and wholesale electricity prices.
Aus	Jul employment	14.0k	20.0k		Leading indicator points to momentum in employment
	Jul unemployment rate	5.6%	5.6%	5.6%	but rising participation will prevent a fall in unemployment.
	RBA Assistant Governor Economics	_	_	_	Lucy Ellis, speech in Canberra, 6:20pm.
Eur	Jun trade balance €bn	19.7	-	_	Exports outpaced imports in May. Strong income prospects.
	Jul CPI (final) %yr	1.3%		1.3%	Core broadly stable at 1.2%yr.
	ECB minutes	-	-	-	Members thoughts on currency or APP tapering plans?
JK	Jul retail sales	0.6%	0.1%	_	Import price rises have eroded households' spending power.
JS	Initial jobless claims	244k		_	Very low.
	Aug Phily Fed index	19.5		_	Very strong region for manufacturing.
	Jul industrial production	0.4%			Much softer than ISMs and regional surveys.
	Fedspeak	5.170	0.070		Kaplan speaks with the Lubbock Chamber of Commerce.
Fri 18					
Chn	Jul property prices	-	-	-	New home price growth has converged across tiers.
JS	Aug Uni. Mich. consumer sentiment	93.4	94.0	-	Sentiment retraced half of Trump jump but still elevated.
	So on the sonounier sentiment	00.4	54.0		our and a second of the second

New Zealand forecasts

Economic Forecasts		20)17		Calendar years			
% change	Mar (a)	Jun	Sep	Dec	2015	2016	2017f	2018f
GDP (Production) ann avg	0.5	0.8	0.9	0.7	2.5	3.1	2.6	3.0
Employment	1.1	-0.1	1.3	0.5	1.4	5.8	2.8	1.8
Unemployment Rate % s.a.	4.9	4.8	4.5	4.5	4.9	5.2	4.5	4.5
CPI	1.0	0.0	0.5	0.4	0.1	1.3	1.9	1.5
Current Account Balance % of GDP	-3.1	-2.9	-2.9	-3.0	-3.4	-2.8	-3.0	-3.3

Financial Forecasts	Sep-17	Dec-17	Mar-18	Jun-18	Sep-18	Dec-18
Cash	1.75	1.75	1.75	1.75	1.75	1.75
90 Day bill	1.95	1.95	1.95	1.95	1.95	1.95
2 Year Swap	2.10	2.10	2.15	2.20	2.30	2.40
5 Year Swap	2.65	2.70	2.80	2.90	3.00	3.10
10 Year Bond	2.90	2.95	3.10	3.20	3.30	3.40
NZD/USD	0.72	0.70	0.69	0.68	0.67	0.66
NZD/AUD	0.92	0.92	0.92	0.92	0.93	0.94
NZD/JPY	79.2	77.7	77.3	76.8	76.4	75.9
NZD/EUR	0.62	0.60	0.59	0.59	0.59	0.58
NZD/GBP	0.57	0.56	0.56	0.55	0.55	0.55
TWI	76.4	75.0	74.3	73.8	73.4	72.9



NZ interest rates as at market open on Monday 14 August 2017

Interest Rates	Current	Two weeks ago	One month ago
Cash	1.75%	1.75%	1.75%
30 Days	1.85%	1.84%	1.82%
60 Days	1.90%	1.89%	1.89%
90 Days	1.96%	1.96%	1.97%
2 Year Swap	2.16%	2.22%	2.27%
5 Year Swap	2.63%	2.77%	2.85%

NZD/USD and NZD/AUD



NZ foreign currency mid-rates as at Monday 14 August 2017

Exchange Rates	Current	Two weeks ago	One month ago
NZD/USD	0.7309	0.7513	0.7345
NZD/EUR	0.6181	0.6388	0.6401
NZD/GBP	0.5621	0.5713	0.5605
NZD/JPY	79.77	83.04	82.61
NZD/AUD	0.9260	0.9404	0.9386
тwi	77.13	79.25	78.21

International forecasts

Economic Forecasts (Calendar Years)	2013	2014	2015	2016	2017f	2018f
Australia						
Real GDP % yr	2.1	2.8	2.4	2.5	2.3	3.0
CPI inflation % annual	2.7	1.7	1.7	1.5	2.0	2.5
Unemployment %	5.8	6.2	5.8	5.7	5.7	6.1
Current Account % GDP	-3.4	-3.0	-4.7	-2.7	-1.2	-2.1
United States						
Real GDP %yr	1.5	2.4	2.9	1.5	2.1	2.1
Consumer Prices %yr	1.5	1.6	0.1	1.3	2.0	1.8
Unemployment Rate %	7.4	6.2	5.3	4.9	4.4	4.3
Current Account %GDP	-2.3	-2.3	-2.3	-2.6	-2.7	-2.8
Japan						
Real GDP %yr	1.4	0.0	0.5	0.6	1.1	1.0
Euroland						
Real GDP %yr	-0.3	0.9	1.6	1.7	1.9	1.5
United Kingdom						
Real GDP %yr	2.2	2.9	2.2	2.0	1.8	1.6
China						
Real GDP %yr	7.7	7.3	6.9	6.7	6.7	6.2
East Asia ex China						
Real GDP %yr	4.2	4.1	3.7	3.7	3.7	3.8
World						
Real GDP %yr	3.3	3.4	3.2	3.2	3.5	3.5
Forecasts finalised 11 August 2017						

Interest Rate Forecasts	Latest	Sep-17	Dec-17	Mar-18	Jun-18	Sep-18	Dec-18	Mar-19
Australia								
Cash	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
90 Day Bill	1.69	1.80	1.80	1.80	1.80	1.80	1.80	1.80
10 Year Bond	2.66	2.75	2.80	2.90	2.95	2.95	3.00	3.00
International								
Fed Funds	1.125	1.125	1.375	1.375	1.625	1.625	1.875	1.875
US 10 Year Bond	2.20	2.40	2.50	2.75	2.85	2.90	3.00	3.00
ECB Deposit Rate	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.30

Exchange Rate Forecasts	Latest	Sep-17	Dec-17	Mar-18	Jun-18	Sep-18	Dec-18	Mar-19
AUD/USD	0.7847	0.78	0.76	0.75	0.74	0.72	0.70	0.70
USD/JPY	108.98	110	111	112	113	114	115	115
EUR/USD	1.1774	1.17	1.17	1.16	1.15	1.14	1.13	1.13
AUD/NZD	1.0802	1.08	1.09	1.09	1.09	1.07	1.06	1.06

Contact the Westpac economics team

Dominick Stephens, Chief Economist +64 9 336 5671 Michael Gordon, Senior Economist +64 9 336 5670 Satish Ranchhod, Senior Economist +64 9 336 5668 Shyamal Maharaj, Economist +64 9 336 5669 Paul Clark, Industry Economist +64 9 336 5656

Any questions email: economics@westpac.co.nz

Past performance is not a reliable indicator of future performance. The forecasts given in this document are predictive in character. Whilst every effort has been taken to ensure that the assumptions on which the forecasts are based are reasonable, the forecasts may be affected by incorrect assumptions or by known or unknown risks and uncertainties. The ultimate outcomes may differ substantially from these forecasts.

Disclaimer

Things you should know

Westpac Institutional Bank is a division of Westpac Banking Corporation ABN 33 007 457 141 ('Westpac').

Disclaimer

This material contains general commentary, and market colour. The material does not constitute investment advice. Certain types of transactions, including those involving futures, options and high vield securities give rise to substantial risk and are not suitable for all investors. We recommend that you seek your own independent legal or financial advice before proceeding with any investment decision. This information has been prepared without taking account of your objectives, financial situation or needs. This material may contain material provided by third parties. While such material is published with the necessary permission none of Westpac or its related entities accepts any responsibility for the accuracy or completeness of any such material. Although we have made every effort to ensure the information is free from error, none of Westpac or its related entities warrants the accuracy, adequacy or completeness of the information, or otherwise endorses it in any way. Except where contrary to law, Westpac and its related entities intend by this notice to exclude liability for the information. The information is subject to change without notice and none of Westpac or its related entities is under any obligation to update the information or correct any inaccuracy which may become apparent at a later date. The information contained in this material does not constitute an offer, a solicitation of an offer, or an inducement to subscribe for, purchase or sell any financial instrument or to enter a legally binding contract. Past performance is not a reliable indicator of future performance. Whilst every effort has been taken to ensure that the assumptions on which the forecasts are based are reasonable, the forecasts may be affected by incorrect assumptions or by known or unknown risks and uncertainties. The ultimate outcomes may differ substantially from these forecasts

Country disclosures

Australia: Westpac holds an Australian Financial Services Licence (No. 233714). This material is provided to you solely for your own use and in your capacity as a wholesale client of Westpac.

New Zealand: In New Zealand, Westpac Institutional Bank refers to the brand under which products and services are provided by either Westpac or Westpac New Zealand Limited ("WNZL"). Any product or service made available by WNZL does not represent an offer from Westpac or any of its subsidiaries (other than WNZL). Neither Westpac nor its other subsidiaries guarantee or otherwise support the performance of WNZL in respect of any such product. The current disclosure statements for the New Zealand branch of Westpac and WNZL can be obtained at the internet address www. westpac.co.nz. For further information please refer to the Product Disclosure Statement (available from your Relationship Manager) for any product for which a Product Disclosure Statement is required, or applicable customer agreement. Download the Westpac NZ QFE Group Financial Advisers Act 2008 Disclosure Statement at www.westpac.co.nz.

China, Hong Kong, Singapore and India: This material has been prepared and issued for distribution in Singapore to institutional investors, accredited investors and expert investors (as defined in the applicable Singapore laws and regulations) only. Recipients in Singapore of this material should contact Westpac Singapore Branch in respect of any matters arising from, or in connection with, this material. Westpac Singapore Branch holds a wholesale banking licence and is subject to supervision by the Monetary Authority of Singapore. Westpac Hong Kong Branch holds a banking license and is subject to supervision by the Hong Kong Monetary Authority. Westpac Hong Kong branch also holds a license issued by the Hong Kong Securities and Futures Commission (SFC) for Type 1 and Type 4 regulated activities. This material is intended only to "professional investors" as defined in the Securities and Futures Ordinance and any rules made under that Ordinance. Westpac Shanghai and Beijing Branches hold banking licenses and are subject to supervision by the China Banking Regulatory Commission (CBRC). Westpac Mumbai Branch holds a banking license from Reserve Bank of India (RBI) and subject to regulation and supervision by the RBI.

UK: The contents of this communication, which have been prepared by and are the sole responsibility of Westpac Banking Corporation London and Westpac Europe Limited. Westpac (a) has its principal place of business in the United Kingdom at Camomile Court, 23 Camomile Street, London EC3A 7LL, and is registered at Cardiff in

Disclaimer continued

the UK (as Branch No. BRO0106), and (b) authorised and regulated by the Australian Prudential Regulation Authority in Australia. Westpac is authorised in the United Kingdom by the Prudential Regulation Authority. Westpac is subject to regulation by the Financial Conduct Authority and limited regulation by the Prudential Regulation Authority. Details about the extent of our regulation by the Prudential Regulation Authority are available from us on request. Westpac Europe Limited is a company registered in England (number 05660023) and is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority.

This communication is being made only to and is directed at (a) persons who have professional experience in matters relating to investments who fall within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (the "Order") or (b) high net worth entities, and other persons to whom it may otherwise lawfully be communicated, falling within Article 49(2)(a) to (d) of the Order (all such persons together being referred to as "relevant persons"). Any person who is not a relevant person should not act or rely on this communication or any of its contents. The investments to which this communication relates are only available to and any invitation, offer or agreement to subscribe, purchase or otherwise acquire such investments will be engaged in only with, relevant persons. Any person who is not a relevant person should not act or rely upon this communication or any of its contents. In the same way, the information contained in this communication is intended for "eligible counterparties" and "professional clients" as defined by the rules of the Financial Conduct Authority and is not intended for "retail clients". With this in mind, Westpac expressly prohibits you from passing on the information in this communication to any third party. In particular this communication and, in each case, any copies thereof may not be taken, transmitted or distributed, directly or indirectly into any restricted jurisdiction. This communication is made in compliance with the Market Abuse Regulation (Regulation(EU) 596/2014).

Investment Recommendations Disclosure

The material may contain investment recommendations, including information recommending an investment strategy. Reasonable steps have been taken to ensure that the material is presented in a clear, accurate and objective manner. Investment Recommendations for Financial Instruments covered by MAR are made in compliance with Article 20 MAR. Westpac does not apply MAR Investment Recommendation requirements to Spot Foreign Exchange which is out of scope for MAR.

Unless otherwise indicated, there are no planned updates to this Investment Recommendation at the time of publication. Westpac has no obligation to update, modify or amend this Investment Recommendation or to notify the recipients of this Investment Recommendation should any information, including opinion, forecast or estimate set out in this Investment Recommendation change or subsequently become inaccurate.

Westpac will from time to time dispose of and acquire financial instruments of companies covered in this Investment Recommendation as principal and act as a market maker or liquidity provider in such financial instruments.

Westpac does not have any proprietary positions in equity shares of issuers that are the subject of an investment recommendation.

Westpac may have provided investment banking services to the issuer in the course of the past 12 months.

Westpac does not permit any issuer to see or comment on any investment recommendation prior to its completion and distribution.

Individuals who produce investment recommendations are not permitted to undertake any transactions in any financial instruments or derivatives in relation to the issuers covered by the investment recommendations they produce.

Westpac has implemented policies and procedures, which are designed to ensure conflicts of interests are managed consistently and appropriately, and to treat clients fairly.

The following arrangements have been adopted for the avoidance and prevention of conflicts in interests associated with the provision of investment recommendations.

- (i) Chinese Wall/Cell arrangements;
- (ii) physical separation of various Business/Support Units;
- (iii) and well defined wall/cell crossing procedures;
- (iv) a "need to know" policy;
- (v) documented and well defined procedures for dealing with conflicts of interest;
- (vi) steps by Compliance to ensure that the Chinese Wall/Cell arrangements remain effective and that such arrangements are adequately monitored.

U.S.: Westpac operates in the United States of America as a federally licensed branch, regulated by the Office of the Comptroller of the Currency. Westpac is also registered with the US Commodity Futures Trading Commission ("CFTC") as a Swap Dealer, but is neither registered as, or affiliated with, a Futures Commission Merchant registered with the US CFTC. Westpac Capital Markets, LLC ('WCM'), a wholly-owned subsidiary of Westpac, is a broker-dealer registered under the U.S. Securities Exchange Act of 1934 ('the Exchange Act') and member of the Financial Industry Regulatory Authority ('FINRA'). This communication is provided for distribution to U.S. institutional investors in reliance on the exemption from registration provided by Rule 15a-6 under the Exchange Act and is not subject to all of the independence and disclosure standards applicable to debt research reports prepared for retail investors in the United States. WCM is the U.S. distributor of this communication and accepts responsibility for the contents of this communication. All disclaimers set out with respect to Westpac apply equally to WCM. If you would like to speak to someone regarding any security mentioned herein, please contact WCM on +1 212 389 1269. All disclaimers set out with respect to Westpac apply equally to WCM.

Investing in any non-U.S. securities or related financial instruments mentioned in this communication may present certain risks. The securities of non-U.S. issuers may not be registered with, or be subject to the regulations of, the SEC in the United States. Information on such non-U.S. securities or related financial instruments may be limited. Non-U.S. companies may not subject to audit and reporting standards and regulatory requirements comparable to those in effect in the United States. The value of any investment or income from any securities or related derivative instruments denominated in a currency other than U.S. dollars is subject to exchange rate fluctuations that may have a positive or adverse effect on the value of or income from such securities or related derivative instruments.

The author of this communication is employed by Westpac and is not registered or qualified as a research analyst, representative, or associated person under the rules of FINRA, any other U.S. selfregulatory organisation, or the laws, rules or regulations of any State. Unless otherwise specifically stated, the views expressed herein are solely those of the author and may differ from the information, views or analysis expressed by Westpac and/or its affiliates.