

Against the tide

Last week Stats NZ gave us the lowdown on New Zealand's labour market. The most striking aspect of the data was a 0.2% drop in employment, as measured by the Household Labour Force Survey. But we are not reading anything into that – it is probably survey volatility rather than the start of a new trend. The alternative Quarterly Employment Survey (which surveys employers) registered FTE employment growth of 0.7%, and we have observed no anecdotes or other data pointing to a sudden shift away from the long-established trend of robust employment growth.

Looking more broadly at the data, New Zealand's labour market story is much as it has been for a couple of years now. Jobs are certainly being created at a rapid pace, but that is only just enough to keep up with rapid population growth. Consequently, the unemployment rate is falling only gradually – it is now 4.8%, compared to 5.1% a year ago.

At these levels, unemployment is still too high to put significant pressure on employers, so wage growth remains slow. The labour cost index has registered just 1.6% wage growth over the past year - wage growth has been stuck at that slow pace since 2013.

From here we do expect the unemployment rate to fall further, but only slowly and not by enough to generate the sort of rapid wage growth we experienced in the mid-2000s. Our forecasts have the unemployment rate reaching a low point of 4.5% later this year, before rising again late in the decade as the economy digests the inevitable slowdown in earthquake-related construction work and a slower housing market.

Occasionally one hears suggestions that if only we dialled back on migration, then the resident population would have more of a shot at the available jobs and the unemployment rate would come down faster. That is known as the "lump of labour" fallacy - it wrongly assumes that the number of jobs available is fixed. In reality, New Zealand's rapid rate of

population growth at present is itself generating demand in the economy, and is therefore responsible for some of the employment growth. If the rate of net migration were to slow sharply, it is unclear whether the unemployment rate would rise (via job losses in construction, for example) or fall.

The devil is in the detail when it comes to assessing the impact of rapid population growth on the labour market. We suspect that the composition of net migration at present is affecting the distribution of income growth in New Zealand. More bodies on the ground means more sales for businesses such as retailers and construction firms. But the preponderance of low-wage workers in the current mix of net migration may well be negatively impacting low-skill wage rates in New Zealand.

The other key development last week was Fonterra's announcement that it has upgraded its forecast of the farmgate milk price for the current season to \$6.75. Demand conditions around the world are certainly positive at present, but we are wary of European and US farmers lifting production in response to high prices. We are also conscious that there is scope for New Zealand's milk production season to outstrip forecasts. With the possibility of extra supply hitting the market, we prefer to stick with our forecast of a \$6.50 milk price.

Against the tide continued

This week we are looking for the Reserve Bank to surprise markets with a dovish Monetary Policy Statement. Financial market pricing currently suggests that the OCR will begin rising from mid-2018, but the RBNZ has been sharply at odds with that view. The RBNZ sees the OCR as on hold for the foreseeable future, and is on the record saying it is equally likely that the next move in the OCR could be up or down.

Over the past few months there has been a run of soft data in New Zealand, including GDP, inflation, the housing market and building consents. At the same time, the exchange rate has risen to levels that the RBNZ will be finding uncomfortable.

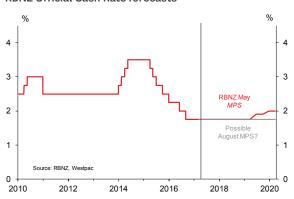
That said, we do not expect the Reserve Bank to make a big splash. The data has been soft, but the situation does not warrant the RBNZ altering its bottom-line guidance. We would expect the final sentence of this week's press release to be a virtual repeat of the past four:

"Monetary policy will remain accommodative for a considerable period. Numerous uncertainties remain and policy may need to adjust accordingly."

But the RBNZ could still strike a dovish tone by issuing a completely flat OCR forecast (the previous incarnation featured a gradual drift higher in the OCR from 2019). The RBNZ might also sum the situation up with a catch-all phrase along the lines of:

"Developments since the May Monetary Policy Statement have on balance softened the outlook for medium term inflation."

RBNZ Official Cash Rate forecasts



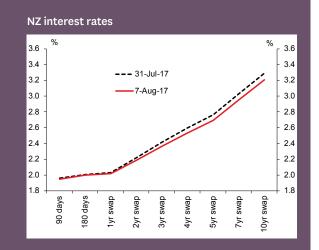
And finally, the RBNZ will almost certainly lambast the high exchange rate, possibly going so far as to say that if the exchange rate fails to fall, the outlook for monetary policy will need to be reassessed.

The other key piece of data to watch out for, out later today, is the RBNZ's survey of inflation expectations. This popped higher last quarter, but is expected to pull back this quarter. A surprise on inflation expectations in either direction could well influence the RBNZ's MPS later in the week.

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



The week ahead

NZ Jul house prices and sales

Aug 7-11 (tbc), Sales last: -9.9%, Prices last: 2.8%yr

- The housing market has continued to cool this year, as mortgage rates have risen and loan-to-value ratio restrictions have held back investors. Uncertainty about housing and tax policy after next month's election may also be suppressing activity.
- House prices are now down slightly on year-ago levels in Auckland and Christchurch, and further declines seem likely. Elsewhere, prices have continued to rise, but the pace is slowing in most regions.
- House sales have fallen by 25% over the last year. Industry figures suggest that this was followed by a sharp drop in new listings in July – property owners don't sell into a falling market if they don't

REINZ house prices and sales



NZ RBNZ Monetary Policy Statement

Aug 10, last: 1.75%, Westpac f/c: 1.75%, Mkt f/c: 1.75%

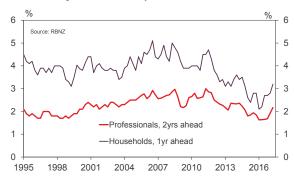
- We expect the RBNZ will leave the OCR at 1.75% and reiterate that monetary policy is on hold for the foreseeable future.
- The press release will probably emphasise the softer tone to recent data, and the RBNZ's discomfort with the high exchange rate.
- The RBNZ may expunge any hint of hikes from its OCR forecast, and issue slightly more dovish guidance in the press release.
- An MPS along these lines would surprise financial markets, possibly causing swap rates and the exchange rate to fall on the day.

NZ Q3 survey of inflation expectations

Aug 7, Two years ahead, last: 2.17%, Westpac f/c: 2.0%

The Reserve Bank's survey of inflation expectations has attracted a great deal of market attention recently, having played a key role in the RBNZ's decision to cut the OCR last year. Now the tables have turned: expectations of inflation two years ahead rose to 2.2% in the latest quarter, back above the 2% target midpoint for the first time since 2014. However, the RBNZ has been eager to point out that it doesn't respond to the survey mechanically, and recent RBNZ research suggests that expectations have become more backward-looking. That's probably even more true now that the survey is held immediately after the CPI release; the drop in the actual inflation rate from 2.2% to 1.7% in Q2 will have been front of mind for respondents this time. Consequently, we think that inflation expectations will also pull back this quarter, to something like 2% (which was also our submission to the survey).

RBNZ survey of inflation expectations

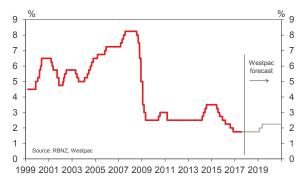


NZ Jun retail card spending

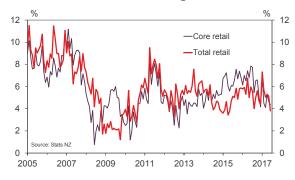
Aug 10, Last: flat, Westpac f/c: +0.1%

- Overall retail spending was flat in June. However, the headline result was strongly influenced by sharp falls in petrol prices over the month. Spending in core categories was actually up 0.8%, underpinned by a solid 2.4% gain in hospitality spending on the back of the Lions tour and related strength in tourism.
- We're forecasting a subdued 0.1% gain in total spending in July. In part, this reflects continued declines in fuel prices that have weighing on nominal spending. Core spending is expected to have risen by a modest 0.3% over the month. While interest rates are still low, they have been pushing upwards. In addition, the slowdown in the housing market will dampen spending in a number of areas.

RBNZ official cash rate forecasts



Card transactions, annual % change



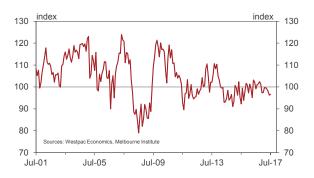
The week ahead

Aus Aug Westpac-MI Consumer Sentiment

Aug 9, Last: 96.6

- The Westpac-Melbourne Institute Consumer Sentiment Index rose 0.4% from 96.2 in June to 96.6 in July. Despite the lift, sentiment has tended to drift lower in 2017, the survey detail pointing to renewed pressures on finances
- The Aug survey is in the field over the week to Aug 6. Developments over the last month look mostly positive for sentiment including: the RBA's decision to leave rates unchanged at its Aug meeting, the Governor also sending a clear signal that rate rises were unlikely any time soon; a terrorist bomb plot allegedly foiled in Sydney; a strong rally in the AUD (up near 4¢ US vs the July survey); a further modest recovery in the ASX (up 0.7% since July but still below its April highs); another solid 1.6% rise in dwelling prices; a continued improvement in labour market conditions and lower petrol prices.

Consumer Sentiment Index

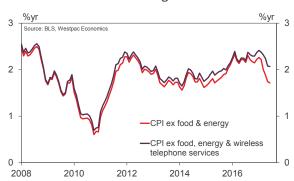


US Jul CPI

Aug 11, Last: 0.0%, WBC 0.1%

- Growing doubts over the US inflation pulse has materially reduced market expectations of further policy action by the FOMC Heralding the start of the second half of 2017, the July CPI report will be a critical outcome for the market.
- Recently we highlighted that the vast majority of the deceleration in annual inflation, from 2.8%yr in February to 1.6%yr in June, had been due to transitory factors - most notably weak energy prices and an unusually large decline in the price of wireless telephone services. Abstracting from these two factors, annual core inflation at June was 2.1%yr. There is therefore little reason to be concerned that disinflation will become entrenched.
- That said, strong inflation is also unlikely anytime soon as wage growth remains modest. We look for a 0.1% rise in headline prices; excluding food and energy, a 0.2% gain is expected.

Core CPI ex wireless still at target

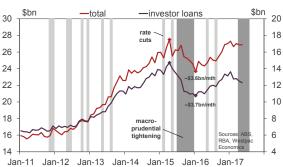


Aus Jun housing finance (no.)

Aug 9, Last: 1.0%, WBC f/c: 1.5% Mkt f/c: 1.5%, Range: 0.5% to 3.0%

The number of owner occupier loans rose 1% in May to be down 3.5%yr. This was the second monthly observation since APRA's macro prudential tightening in late March and associated increases in rates for investor and 'interest only' loans. Some of the rise in owner occupier loans is likely due to switching between investor and owner occupier products. A lift in refinancing suggests we may also be seeing existing borrowers move from interest only to standard loans. Notably both the value of investor loans and the total value of loans also held up a bit better than expected (down 1.4% and up 0.1% respectively). For June, industry data points to another lift in owner occupier loans, which we expect to be up 1.5%mth. Note that a second round of mortgage rate increases for 'interest only' loans came through late in the month.

Housing finance approvals



Data calendar

		Last		Westpac forecast	Risk/Comment
Mon 7					
NZ	Jul REINZ house sales	-9.9%	-	-	Due this week. Sales slowed sharply since LVR limits.
	Jul REINZ house prices, %yr	2.8%	-	-	Falling in Auckland; slowing in the rest of the country.
	Q3 RBNZ inflation expct'ns survey	2.17%	-	2.0%	Edging back after below expectations Q2 inflation result.
Aus	Jul ANZ job ads	2.7%	-	-	Ads have recovered to a sound 10%yr annual pace.
	NSW bank holiday	-	-	-	Banks closed in NSW & ACT, Picnic Day NT.
UK	Jul Halifax house prices	2.6%	-	-	House price inflation softening on economic uncertainty.
Eur	Aug Sentix investor confidence	28.3	_	-	Index has maintained positivity established earlier in 2017.
Chn	Jul foreign reserves \$bn	3056.8	-	_	Authorities' control of outflows clear for all to see.
	Q2 current account balance	18.4	-	-	Dated, but offers considerable detail on trade/ financials.
US	Jul labor market conditions index	1.5	-	-	Aggregate measure of momentum in labour market.
	Jun consumer credit \$bn	18.4	16.0	-	Autos and students loans continue to support.
	Fedspeak	-	-	-	Bullard on economy and policy; Kashkari in a Q&A.
Tue 8					
Aus	Jul NAB business survey	15	-	-	Conditions strengthened in 2017, lift across most industries.
Chn	Jul trade balance USDbn	42.80	-	-	Gains for global trade aiding manufacturers.
	Jul foreign direct investment %yr	2.3%	-	-	Limited appetite for investment at the moment.
US	Jun JOLTS job openings	5666	-	-	Hires; fires; quits and job openings. A month behind payrolls.
	Jul NFIB small business optimism	103.6	103.8	-	Conditions reportedly deteriorated in June.
Wed 9					
Aus	Westpac-MI Consumer Sentiment	96.6	_	-	Mostly positive developments in August?
	Jun housing finance	1.0%	1.5%	1.5%	Owner occupiers indirectly boosted by investor clampdown.
	RBA Assistist Gov' Financial Mkts	-	-	-	Chris Kent, Bloomberg Address, Sydney, 8:35am
Chn	Jul CPI %yr	1.5%	1.5%	-	Consumer inflation pressures benign while
	Jul PPI %yr	5.5%	5.6%	-	upstream prices being supported by commodity prices.
US	Jun wholesale inventories (final)	0.6%	0.6%	-	Little changed in first half of 2017.
Γhu 10	,				
NZ	RBNZ OCR decision	1.75%	1.75%	1.75%	Inflation has moderated & economic conditions softened.
	Jul retail card spending	0.0%	-	0.1%	Moderate growth in core spending, fuel prices down.
Aus	Aug MI inflation expectations	4.4%	-	-	Picked up in 2017 but may moderate with falling fuel prices
UK	Jul RICS house price balance	7.0%	-	-	Housing cond. softened, supply limits downside on prices.
	Jun industrial production	-0.1%	0.0%	_	Output has been subdued despite the lower GBP
	Jun construction output	-1.2%	1.2%	-	as Brexit uncertainty clouds the outlook for investment.
	Jun trade balance, £b	-11863	-11000	-	Lower GBP boosting exports.
US	Jul PPI	0.1%	0.1%	=	Weaker dollar likely to see producer prices rise.
	Initial jobless claims	-	=	_	Very low.
	Jul monthly budget statement	-90.2	_	_	Focus now turning to debt ceiling debate Sep/Oct.
Fri 11					Ü 17
NZ	Jul BusinessNZ manuf. PMI	56.2	_	_	Remains at levels consistent with firm activity.
	Jul food price index	0.2%	_	_	Weather-related spike in vege prices is now reversing.
Aus	RBA Governor Philip Lowe	_	_	_	Parliamentary testimony, Melbourne, 9:30am.
US	Jul CPI	0.0%	0.2%	0.1%	Another benign outcome; food & energy to weigh.
US					

New Zealand forecasts

Economic Forecasts		2017				Calendar years				
% change	Mar (a)	Jun	Sep	Dec	2015	2016	2017f	2018f		
GDP (Production) ann avg	0.5	1.0	0.9	0.7	2.5	3.1	2.8	3.2		
Employment	1.1	-0.2	1.3	0.5	1.4	5.8	2.8	1.9		
Unemployment Rate % s.a.	4.9	4.8	4.6	4.4	4.9	5.2	4.4	4.5		
СРІ	1.0	0.0	0.4	0.2	0.1	1.3	1.6	1.9		
Current Account Balance % of GDP	-3.1	-3.1	-3.1	-3.2	-3.4	-2.8	-3.2	-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	2.00	2.00	2.00	2.00	2.00	2.15
2 Year Swap	2.30	2.35	2.40	2.45	2.50	2.60
5 Year Swap	2.90	3.00	3.10	3.20	3.30	3.40
10 Year Bond	3.15	3.30	3.50	3.70	3.80	3.85
NZD/USD	0.71	0.70	0.69	0.67	0.66	0.64
NZD/AUD	0.96	0.96	0.96	0.97	0.97	0.98
NZD/JPY	79.5	79.8	78.7	77.1	76.6	74.9
NZD/EUR	0.65	0.65	0.66	0.65	0.65	0.63
NZD/GBP	0.56	0.56	0.56	0.54	0.54	0.53
TWI	77.8	77.5	77.1	75.9	75.4	74.1

2 Year Swap and 90 Day Bank Bills



NZ interest rates as at market open on Monday 7 August 2017

Interest Rates	Current	Two weeks ago	One month ago
Cash	1.75%	1.75%	1.75%
30 Days	1.86%	1.82%	1.86%
60 Days	1.90%	1.87%	1.91%
90 Days	1.95%	1.94%	1.98%
2 Year Swap	2.19%	2.22%	2.33%
5 Year Swap	2.69%	2.76%	2.90%

NZD/USD and NZD/AUD



NZ foreign currency mid-rates as at Monday 7 August 2017

Exchange Rates	Current	Two weeks ago	One month ago
NZD/USD	0.7404	0.7450	0.7275
NZD/EUR	0.6289	0.6385	0.6384
NZD/GBP	0.5677	0.5728	0.5648
NZD/JPY	82.01	82.75	82.86
NZD/AUD	0.9344	0.9421	0.9592
TWI	78.27	78.85	78.44

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	2.1	2.3
Unemployment %	5.8	6.2	5.8	5.7	5.7	6.2
Current Account % GDP	-3.4	-3.0	-4.7	-2.7	-1.7	-3.3
United States						
Real GDP %yr	1.5	2.4	2.6	1.6	2.1	2.4
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	1.8	1.4
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	6.6	6.0
East Asia ex China						
Real GDP %yr	4.2	4.1	3.7	3.7	3.8	3.8
World						
Real GDP %yr	3.3	3.4	3.1	3.3	3.5	3.5
Forecasts finalised 14 July 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	2.62	2.90	2.95	3.05	3.20	3.35	3.30	3.30
International								
Fed Funds	1.125	1.375	1.375	1.625	1.625	1.875	1.875	1.875
US 10 Year Bond	2.22	2.55	2.65	2.90	3.10	3.30	3.30	3.30
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	0.7956	0.74	0.73	0.72	0.69	0.68	0.65	0.65
USD/JPY	110.09	113	114	115	115	116	116	118
EUR/USD	1.1876	1.13	1.13	1.11	1.10	1.08	1.07	1.06
AUD/NZD	1.0706	1.04	1.04	1.04	1.03	1.03	1.02	1.02

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').

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. BR00106), 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 $% \left(1\right) =\left(1\right) \left(1\right) \left$ 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.