Weekly Commentary

15 October 2018

Rolling along

After recent weak business confidence headlines, we had several reminders last week of why we're actually looking for the "hard data" to show a tick up in momentum over the next couple of months. Most notably, retail spending growth exceeded expectations for a second month in a row, and the Government's books for the year to June are in even better shape than forecast. Looking ahead to this week, we outline what we expect to see in the September quarter CPI release.

While weak confidence data continues to hog the headlines, other indicators of how the New Zealand economy is tracking still paint a more resilient picture of economic activity. Last week's electronic transactions data showed retail spending beat expectations for a second consecutive month. While part of the lift was down to higher fuel prices, that wasn't the entire story. Core retail spending (which excludes spending on fuel and other auto-related spending) was up a healthy 1.1% in September, and 5.1% higher than a year ago. So while we remain on alert for signs record high fuel prices will eventually put the squeeze on household spending, the data suggests that's not happening yet.

One reason spending seems to be holding up reasonably well in the face of rising petrol prices might be the boost low and middle-income households are receiving from the Government's flagship Families Package. A number of elements of this package came into effect on July 1, and the package will pump \$1.2bn dollars into household incomes in the year to June 2019, rising to \$1.5bn a year by the time the package is fully implemented in 2020/21.

The release of the final fiscal accounts for the year to June 2018 showed that the package was certainly one the Government can afford. The Government's books were in much better shape than expected, with higher than forecast revenues and less spending than planned leading to a \$5.5bn surplus. That's \$2.4bn higher than was forecast in the May Budget. This larger than expected surplus meant that net core Crown debt fell by \$2bn over the June 2018 year, taking net debt down to 19.9% of GDP. That's already inside the 20% of GDP level the Government set as a self-imposed debt target under its Budget Responsibility Rules. What's more it has met this target 4 years ahead of schedule.

Glow Worm (Arachnocampa Luminosa)

Delays in capital spending also contributed to the lower borrowing requirement. This is not a new trend. As we have been pointing out, spending as much as they'd like on infrastructure has proved difficult for governments in recent years, with capacity constraints the main hindrance to a lift in infrastructure spending.

So far politicians have been keen to hose down expectations of a spending spree on the back of the better than expected fiscal accounts. However, these calls will no doubt intensify in the lead-up to the 2019 Budget, especially if the economy continues to trundle along at a reasonable pace. This could allow the Government to announce even more spending than it already has planned. The stronger than expected starting point also provides some leeway if economic growth fails to live up to the Treasury's upbeat forecasts.

Another reason household spending may hold up reasonably well over as we head into the end of the year is slightly more positive news on the housing front. The latest housing market data for September suggested that the New Zealand housing market remains steady, with

Rolling along continued

nationwide prices rising slowly. While we remain downbeat on the long-run outlook for the housing market due mainly to tax changes and the foreign buyer ban, in recent weeks the more dovish tone from the RBNZ has resulted in a sharp drop in fixed mortgage rates. This is likely to support a modest pickup in housing market activity in the coming months. It's probably too early to see an impact from this change yet but, there were a few hints in the REINZ September data. Auckland house prices (which seem to be most sensitive to changes in mortgage rates) increased 0.5% in the month – the first monthly lift in prices in the region since February 2018.

Looking ahead to this week, the focus will be on the September quarter CPI release on Tuesday. We expect a 0.7% rise in the Consumer Price Index (CPI) for the September quarter, taking annual inflation up to 1.7%. That's well above what the RBNZ was thinking back in August when it forecast 1.4% inflation in September. However, unlike our forecast, the RBNZ's pick won't fully account for the lift in fuel prices we've seen since August.

This lift in fuel prices will make a significant contribution to September quarter inflation. However the weaker NZ dollar is also playing a broader role, pushing up prices for imported goods. Both these factors are also likely to feature in the December quarter, which could mean inflation briefly nudges above the 2% mid-point of the RBNZ's target band. Inflation above 2% could make rate cuts a harder sell for the RBNZ in the near term. Despite this the RBNZ remains squarely focused on risks to the growth outlook. Should growth falter, we don't think inflation marginally above the mid-point of the target band would stop the RBNZ cutting the OCR.

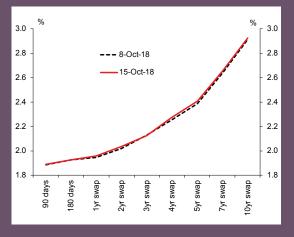
Fixed vs Floating for mortgages

Fixed-term mortgage rates are currently falling, as the market adjusts to the Reserve Bank's softer stance. Looking further ahead, we expect floating and shortterm fixed rates to rise gradually over the next few years, so taking a fixed rate may prove worthwhile once they have settled down.

One-year fixed rates are currently the lowest on offer, and appear to offer good value for borrowers. Longerterm fixed rates are high relative to where we think oneyear fixed rates are going to go. However, longer-term rates offer security against the possibility of mortgage rates rising more rapidly than expected in the future.

Floating mortgage rates usually work out to be more expensive for borrowers than fixed rates. However, floating may still be the preferred option for those who require flexibility in their repayments.

NZ interest rates



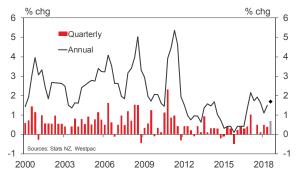
The week ahead

NZ Q3 CPI

Oct 16, Last: 0.4%, Westpac f/c: 0.7%, Mkt f/c: 0.7%

- We expect a 0.7% rise in consumer prices for the September quarter, taking annual inflation up to 1.7%.
- Higher fuel prices account for much of the quarterly rise. We also
 expect the lower exchange rate over the last year to have an impact
 on prices of imported goods.
- Inflation is set to rise above the 2% midpoint of the Reserve Bank's target range by year-end. A petrol-induced rise in inflation could make OCR cuts a harder sell in the near term, though it certainly wouldn't preclude rate cuts if the economy faltered.

NZ CPI inflation



Aus Sep Labour Force, employment '000 Oct 18, Last: 44k, WBC f/c: 15k Mkt f/c: 15k, Range: 5k to 3ok

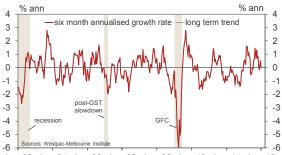
- Employment lifted 44.0k in Aug with full-time rising a solid 33.7k (+20.1k in July) and part-time putting in a sound gain of 10.2k (not fully reversing the Jul -24.4k). The annual pace was flat at 2.5%yr (+310.4k in the year) with the six month annualised pace lifting to 2.2%yr from 1.4%yr. The momentum in employment has eased from its above trend pace but is likely to hold around 2%yr to end 2018.
- Our forecast for a 15k rise in employment will see an annual, and a six month annualised, pace of 2.4%.
- The ABS notes that the outgoing rotation group in the September Labour Force Survey has a lower employment to population ratio than the average for the sample as a whole. As such the risk to our forecast lie to the upside.

%yr 5 5 -Model estimate of employ growth employment 4 4 3 3 2 2 1 0 0 Sources: ABS_Westpac Economics Aug-98 Aug-02 Aug-06 Aug-10 Aug-14 Aug-18

Aus Sep Westpac-MI Leading Index Oct 17, Last: -0.02%

- The six month annualised growth rate in the Westpac-Melbourne Institute Leading Index, which indicates the likely pace of economic activity relative to trend three to nine months into the future, fell from 0.5% in July to -0.02% in August. While the signal has been volatile this year, the signal points to slowing growth momentum heading into year end and early 2019.
- The September read will again include a mixed bag of updates. Components with weaker reads include: dwelling approvals, down sharply by -9.4%; the ASX200, down -1.8% vs 0.6% last month; and the Westpac-MI Unemployment Expectations Index which deteriorated marginally after a significant improvement last month. This will be balanced by more positive reads for the Westpac-MI Consumer Expectations Index (up 0.9%); commodity prices (up 2% in AUD terms); and a modest widening in the yield spread (+7bps).

Westpac-MI Leading Index



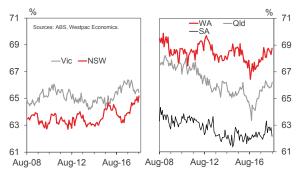
Aug-90 Aug-94 Aug-98 Aug-02 Aug-06 Aug-10 Aug-14 Aug-18

Aus Sep Labour Force, unemployment % Oct 18, Last: 5.3%, WBC f/c: 5.3%

Mkt f/c: 5.3%, Range: 5.1% to 5.4%

- The robust Aug employment gains were matched by a rise in participation to 65.7%, from 65.6%, boosting the labour force by 49.6k. This was enough to hold the unemployment rate flat at 5.3%. The record high for participation is 65.8% set in November 2010. August saw solid gains in both male (71.1% from 70.9%) and female (61.5% from 60.4%) participation and this mix saw male unemployment fall to 5.2% (from 5.3%) while female unemployment rose to 5.4% (from 5.2%).
- The rise in participation has been driven by NSW, and in particular, females in NSW where it is hitting record highs. While we may be nearing the peak for participation in NSW, other states have room to grow. As such, we expect participation to hold at 65.7%, leaving the unemployment rate at 5.3%.

Total participation rate by state



Jobs Index model of employment

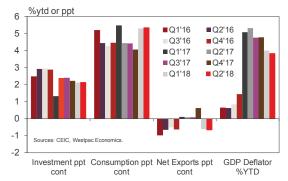
The week ahead

China Q3 GDP

Oct 19, last 6.7%, WBC 6.6%

- 2018 has been a year of change for China's economy, some voluntary, some forced upon it. Throughout, we have held to a sub-consensus view on growth to highlight the risks to investment (a result of ongoing structural change in their financial system and a clear focus on the quality of growth) and, more recently, from building tensions with the US and slower global growth.
- Come Q3, we believe a softer pulse for the consumer (after a particularly strong first half) along with lingering weakness in business and government investment will weigh on growth.
 However, the race to minimise the cost of tariffs on exporters should see net exports add to momentum, having been a negative early in 2018. The net effect should be an annualised pace of gain consistent with our sub-consensus view of 6.3% for the year (1.6% q/q), but an annual rate at 6.6%yr.

China GDP: H1 saw strong consumer support

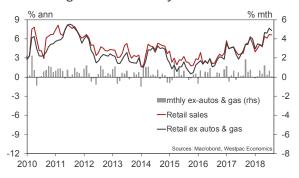


US Sep retail sales

Oct 15, last 0.1%, WBC 0.8%

- US retail sales have been decidedly mixed of late, with negative revisions offsetting an upside surprise to the latest actual or vice versa. Growth over the year remains robust though, at 6.6%yr in August.
- The underlying supports for US consumption remain strong, with employment growth continuing at pace; wages growth firming; and consumer confidence strong. The elevated price of oil is a partial offset to these long-running positives.
- Come September, we look for a bounce in spending, a 0.8% gain for headline sales and a 0.5% rise for core activity. From those two forecasts, apparent is that spending on autos and gasoline will be positive in the month. This is also likely to be the case into year end, particularly for autos in regions hit by the 2018 hurricane season.

Retail sales growth robust over year



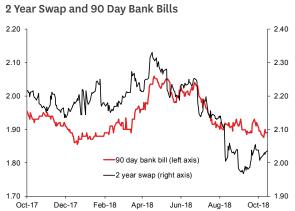
Data calendar

		Last		Westpac forecast	Risk/Comment
Mon 15					
NZ	Sep BusinessNZ PSI	53.2	-	-	Surveys are pointing to a loss of momentum through H2 2018.
Chn	Sep M2 money supply %yr	8.2%	8.5%	-	Tentative date.
	Sep new loans, CNYbn	1280	1340	-	${\sf Bank}\ {\sf loans}\ {\tt \&}\ {\sf market}\ {\sf sourced}\ {\sf funding}\ {\sf to}\ {\sf show}\ {\sf improvement}.$
JS	Oct Fed Empire state index	19.0	20.5	-	Still at a strong level.
	Sep retail sales	0.1%	0.7%	0.8%	Jul and Aug both delivered surprises; will Sep too?
	Aug business inventories	0.6%	0.5%	-	Q2 draw down of inventories to reverse in Q3.
'ue 16					
١Z	Q3 CPI	0.4%	0.7%	0.7%	Higher oil prices and the lower NZ dollar boosting inflation.
lus	RBA minutes	-			More colour on the Board's thoughts.
hn	Sep PPI %yr	4.1%			Commodities supporting prices upstream
	Sep CPI %yr	2.3%		-	but consumer inflation benign.
ur	Aug trade balance €bn	12.8		-	Surplus edging back in 2018 on less trade and higher Euro.
	Oct ZEW survey of expectations	-7.2		-	Sentiment stabilised in recent months but still vulnerable.
IK	Aug ILO unemployment rate	4.0%			Set to remain low with activity firmer in mid–2018.
IS	Sep industrial production	0.4%			Weaker than ISM's indicate.
	Oct NAHB housing market index	67			Builders remain very positive on outlook.
	Aug JOLTS job openings	6939	6900	-	Hires, fires, quits and job openings.
Ved 17					
IZ	GlobalDairyTrade auction	-1.9%		-	Strong growth in NZ milk production weighing on prices.
us	Sep Westpac-MI Leading Index	-0.02%	-	-	Volatile but pointing to slowing momentum into year end.
	RBA Dep. Gov. Debelle speaks	-		-	'The State of the Labour Market', Sydney 8:20 am.
ur	Sep CPI core %yr final	0.9%	0.9%	-	Core inflation remains contained and below target.
	Bundesbank Weidmann speaks	-	-	-	In Berlin.
К	Sep CPI	0.7%		-	Core inflation at target with imported pressures easing.
	Aug house price index, %yr	3.1%		-	Prices in London particularly weak.
S	Aug total net TIC flows \$bn	52.2		-	Market keeping track of Chinese demand.
	Sep housing starts	9.2%			Residential construction forward indicators
	Sep building permits	-4.1%	2.5%		are flattening out.
	FOMC meeting minutes	-	-	-	Further detail on risks to the outlook in focus.
	Fedspeak	-	-	-	Brainard on Fintech and financial inclusion.
hu 18			10	10	
us	Sep employment	44k			Leading indicators suggest momentum can hold to end '19
	Sep unemployment rate	5.3%			while robust participation will limit fall in unemployment.
	Q3 NAB business survey	7			Quarterly survey provides additional detail.
K	Sep retail sales	0.3%	-0.3%		Boosted by summer weather, but signs the pickup is fading.
ur	EU Summit	-	-	-	Migration, article 50 and more to be discussed.
S	Oct Phily Fed index	22.9		-	Remains very positive.
	Initial jobless claims	214k		-	Very, very low. Pointing to above-average growth.
	Sep leading index	0.4%	0.5%		Bullard and Quarles speaking at seperate events.
ri 19	Fedspeak	-	-	-	שמונמיט מווט עטמו וכיז קידפאוואט מג זידירופו פידפונט פידפונט.
	Sep net migration	5010	_	4000	Downtrand in annual migration from high lovale continuing
Z		5010 5.9		4900	Downtrend in annual migration from high levels continuing.
K	Sep public sect. net borrowing, £bn BOE Governor Carney	5.9		-	Borrowing requirements have been lower than anticipated.
	~				Speaking at Economic Club of New York, text to be released.
hn	Q3 GDP %yr Sep retail sales ytd %yr	6.7%			Growth continues to decelerate, slowly. Consumer momentum likely to soften in H2 2018.
hn	SED TELAIL SALES VLU YOVI	9.3%			•
hn			6.0%	-	Manufacturing remains positive.
:hn	Sep industrial production ytd %yr	6.1% 5.3%			A low for EAL growth has likely been seen
Chn	Sep industrial production ytd %yr Sep fixed asset investment ytd %yr	5.3%	5.4%		A low for FAI growth has likely been seen.
	Sep industrial production ytd %yr Sep fixed asset investment ytd %yr Sep existing home sales		5.4%		Limited supply remains the biggest issue in most markets.
:hn IS Iat 20	Sep industrial production ytd %yr Sep fixed asset investment ytd %yr	5.3%	5.4%		

New Zealand forecasts

Economic Forecasts	Quarterly				Annual			
ECONOMIC FORECASTS	2018			2019		20	019	
% change	Jun (a)	Sep	Dec	Mar	2017	2018f	2019f	2020f
GDP (Production)	1.0	0.7	0.7	0.7	2.8	2.8	3.1	2.9
Employment	0.5	0.4	0.3	0.3	3.7	1.8	1.4	1.7
Unemployment Rate % s.a.	4.5	4.5	4.6	4.7	4.5	4.6	4.6	4.4
СРІ	0.4	0.7	0.5	0.4	1.6	2.1	1.4	1.8
Current Account Balance % of GDP	-3.3	-3.5	-3.5	-3.2	-2.9	-3.5	-3.4	-2.9

Financial Forecasts	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19	Mar-20
Cash	1.75	1.75	1.75	1.75	1.75	1.75
90 Day bill	1.90	1.90	1.90	1.95	2.00	2.10
2 Year Swap	2.10	2.20	2.30	2.45	2.60	2.75
5 Year Swap	2.60	2.75	2.90	3.05	3.15	3.25
10 Year Bond	2.80	3.00	3.15	3.25	3.35	3.40
NZD/USD	0.66	0.65	0.64	0.64	0.65	0.65
NZD/AUD	0.92	0.92	0.91	0.91	0.90	0.90
NZD/JPY	75.2	74.1	72.3	71.7	72.8	72.2
NZD/EUR	0.57	0.57	0.57	0.56	0.56	0.55
NZD/GBP	0.52	0.53	0.52	0.52	0.53	0.53
TWI	72.4	71.6	70.6	70.4	70.8	70.8



NZ interest rates as at market open on

15 October 2018

Interest Rates	Current	Two weeks ago	One month ago
Cash	1.75%	1.75%	1.75%
30 Days	1.82%	1.83%	1.82%
60 Days	1.86%	1.87%	1.85%
90 Days	1.89%	1.92%	1.89%
2 Year Swap	2.04%	2.04%	1.98%
5 Year Swap	2.41%	2.39%	2.31%



NZ foreign currency mid-rates as at 15 October 2018

Exchange Rates	Current	Two weeks ago	One month ago
NZD/USD	0.6507	0.6624	0.6552
NZD/EUR	0.5630	0.5702	0.5636
NZD/GBP	0.4946	0.5079	0.5011
NZD/JPY	72.98	75.29	73.39
NZD/AUD	0.9149	0.9166	0.9152
тwi	71.36	72.21	71.49

International forecasts

Economic Forecasts (Calendar Years)	2015	2016	2017	2018f	2019f	2020f
Australia						
Real GDP % yr	2.5	2.6	2.2	3.3	2.7	2.8
CPI inflation % annual	1.7	1.5	1.9	1.7	1.8	1.6
Unemployment %	5.8	5.7	5.5	5.3	5.5	5.5
Current Account % GDP	-4.7	-3.1	-2.6	-2.5	-2.9	-3.8
United States						
Real GDP %yr	2.9	1.5	2.3	2.9	2.5	1.7
Consumer Prices %yr	0.1	1.4	2.1	2.5	2.0	1.9
Unemployment Rate %	5.3	4.9	4.4	3.9	3.6	3.6
Current Account %GDP	-2.3	-2.3	-2.3	-2.6	-2.5	-2.4
Japan						
Real GDP %yr	1.4	0.9	1.7	1.1	0.8	0.7
Euro zone						
Real GDP %yr	2.1	1.8	2.5	2.0	1.5	1.5
United Kingdom						
Real GDP %yr	2.3	1.9	1.8	1.2	1.2	1.4
China						
Real GDP %yr	6.9	6.7	6.9	6.3	6.1	6.0
East Asia ex China						
Real GDP %yr	3.8	3.9	4.5	4.4	4.2	4.1
World						
Real GDP %yr	3.5	3.2	3.8	3.8	3.6	3.5
Forecasts finalised 5 October 2018						

Latest	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19	Jun-20	Dec-20
1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
1.94	1.98	1.93	1.91	1.90	1.90	1.85	1.83
2.75	2.80	3.00	3.00	2.90	2.80	2.60	2.60
2.125	2.375	2.625	2.875	2.875	2.875	2.875	2.875
3.17	3.20	3.40	3.50	3.40	3.20	3.00	2.80
-0.40	-0.40	-0.40	-0.40	-0.30	-0.20	0.00	0.20
	1.50 1.94 2.75 2.125 3.17	1.50 1.50 1.94 1.98 2.75 2.80 2.125 2.375 3.17 3.20	1.50 1.50 1.50 1.94 1.98 1.93 2.75 2.80 3.00 2.125 2.375 2.625 3.17 3.20 3.40	1.50 1.50 1.50 1.50 1.94 1.98 1.93 1.91 2.75 2.80 3.00 3.00 2.125 2.375 2.625 2.875 3.17 3.20 3.40 3.50	1.50 1.50 1.50 1.50 1.94 1.98 1.93 1.91 1.90 2.75 2.80 3.00 3.00 2.90 2.125 2.375 2.625 2.875 2.875 3.17 3.20 3.40 3.50 3.40	1.50 1.50 1.50 1.50 1.50 1.50 1.94 1.98 1.93 1.91 1.90 1.90 2.75 2.80 3.00 3.00 2.90 2.80 2.125 2.375 2.625 2.875 2.875 2.875 3.17 3.20 3.40 3.50 3.40 3.20	1.50 1.50 1.50 1.50 1.50 1.50 1.94 1.98 1.93 1.91 1.90 1.90 1.85 2.75 2.80 3.00 3.00 2.90 2.80 2.60

Exchange Rate Forecasts	Latest	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19	Jun-20	Dec-20
AUD/USD	0.7122	0.72	0.71	0.70	0.70	0.72	0.74	0.75
USD/JPY	112.34	114	114	113	112	110	109	106
EUR/USD	1.1604	1.15	1.14	1.13	1.15	1.18	1.22	1.28
AUD/NZD	1.0924	1.09	1.09	1.09	1.09	1.11	1.12	1.10

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

 Anne Boniface, Senior 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.