WESTPAC WEEKLY ECONOMIC COMMENTARY

Steady as she goes!

14 August 2023

Westpac Economics Team economics@westpac.co.nz westpac.co.nz/economics



thern rāti

Last week we released our quarterly Economic Overview.¹ The key theme was "the great rebalancing," and we ask whether and how quickly it will occur? The economy is clearly slowing, as further demonstrated by last week's soft retail spending and manufacturing PMI reports. However, the economy remains overstretched and inflation far too high. Twin deficits – external and fiscal – are in play, raising clear risks the required adjustments in economic conditions might be bumpy and prolonged.

Our baseline is that that further monetary policy action is needed to ensure the required adjustments come fast enough. But there are risks in both directions. On the upside, we continue to see the risk of only slow adjustments in economic activity and lingering 'sticky' inflation pressures, which could mean that the OCR needs to move even higher – perhaps even above 6%. But on the downside, the possibility of weaker Chinese demand could allow for a faster adjustment than we have factored in. But even then, local interest rates will likely remain higher than pre-pandemic levels.

This week the key event in the local diary is Wednesday's RBNZ's OCR decision and updated *Monetary Policy Statement*. As we wrote in our preview,² we are not expecting any fireworks, with the Bank likely to deliver the same "steady as she goes" message as was conveyed last month. Specifically, the OCR is almost certain to remain at 5.5% and the Bank

is very likely to retain its baseline projection that the rate cycle has peaked. Looking beyond this meeting, the Bank's projection for the OCR will likely continue to indicate policy on hold until around the August 2024 meeting, before gradually moving lower thereafter. But it is probable – and certainly desirable – that the Bank will emphasise that policy is not on a predetermined path and that it will be closely monitoring the emerging data flow both here and abroad.

Economic developments since the July policy meeting – and since May when the RBNZ released its last set of forecasts – will likely be viewed as mixed, and so lead to only modest changes to the broad thrust of the Bank's overall growth and inflation forecasts. That's not to say there won't be changes within the detail. For example, the RBNZ's starting point for the level of excess capacity in the economy will be adjusted down to reflect that March quarter GDP was weaker than they expected.

¹ westpac.co.nz/assets/Business/tools-rates-fees/documents/economic-updates/2023/Other/Economic-Overview_QEO_report_10Aug23.pdf

² westpac.co.nz/assets/Business/tools-rates-fees/documents/economic-updates/2023/Bulletins/Economic-Data_MPS-preview_bulletin_10Aug23.pdf

However, indicators – including robust employment growth – point to a stronger June quarter than the Bank had projected, so the implications for the output gap will likely be a wash.

Recent external sector developments will have been a downside surprise for the RBNZ. Of particular significance has been ongoing weakness in China's recovery and the related substantial downgrade to the outlook for commodity export prices (dairy, meat, logs for example), which will lower farm and business incomes. On the other hand, house prices have found a base sooner than the RBNZ expected and have even taken tentative steps higher. And while the headline CPI was in line with expectations, non-tradables inflation was higher than the RBNZ had forecast, and that will raise questions on how persistent price pressures will be in the next few quarters. The widespread nature of pricing pressures should see some shortterm upward adjustment to the inflation outlook.

While the RBNZ's baseline outlook may not have changed much, both upside and downside inflation risks have become more pronounced since the May *Statement* (as shown in this week's *Chart of the week*).

On the downside the focus should be on the weakness in China and commodities markets, along with the related possibility of a steeper downturn in the economy and an earlier move lower in inflation. A May 2024 easing could come into focus in that scenario.

On the upside, greater persistence in domestic inflation, stronger house prices, and a slower adjustment in the labour market would confirm Westpac's view that a hike in the OCR will be back on the table by the time of the RBNZ's November OCR decision and *Statement*.

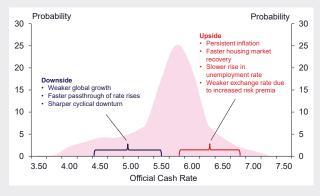
Ahead of the RBNZ's meeting, there will be some interest in the REINZ housing report for July and migration data for June. In recent months house sales have moved decisively off their cycle lows and house prices have edged higher – developments that will no doubt have caught the attention of the RBNZ. Very strong net migrant inflows earlier this year have probably contributed to this uplift, so we will be interested to see whether the recent moderation in inflows has continued in June. On Wednesday the results of the latest GDT auction will likely be awaited with some trepidation, especially after the very sharp fall in whole milk powder prices at the last auction. Indeed, given the weakness in recent auction results, and following Fonterra's own forecast revision, we have this week further revised down our forecast for the 2023/24 farmgate milk price to \$7.50kg - a level that will likely leave many farmers in the red for the season. The June quarter business price indexes close out the week's dataflow on Thursday. While not a big focus for markets, the producer price indexes might cast some light on the inflation pipeline.

Kelly Eckhold, Chief Economist +64 21 786 758 kelly.eckhold@westpac.co.nz

Chart of the week

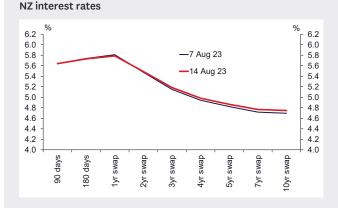
The economy remains overstretched and inflation far too high – hence we see further policy action as needed to ensure the economy adjusts fast enough. But risks around that central view are significant in both directions for the OCR one year out. Twin deficits are in play raising clear risks the adjustment might be bumpy and prolonged. We still see the risks as towards slow adjustment, sticky inflation, and higher interest rates - perhaps even above 6%. But the impact on incomes of weaker Chinese demand could allow for a faster adjustment and some modest interest rate cuts over the next year. Policy and forecasts will need to be dictated by the data and not the calendar!

OCR risk scenarios - August 2024



Fixed vs floating for mortgages

We think the current best value for borrowers is fixing for one year and rolling for this term. That is likely to produce a lower borrowing cost on average over the next few years. Longer fixed terms would be more suited to those who want certainty in their repayments.



The week ahead

NZ Jul REINZ house sales and prices

Aug 15, Sales, Last: +2.2% m/m, 14.6% y/y Aug 15, Prices, Last: +1.2% m/m, -9.0% y/y

This year, the New Zealand housing market has shown signs of recovery, likely supported by rapid migrant-driven population growth and a growing sense amongst buyers that interest rates are close to or at their peak.

House sales, while still well below average, are up about a third from last year's low-point. Prices have also moved higher in recent months, though they are still 15% below the peak.

Migrant inflows have slowed a little in recent months and mortgage rates have edged higher as funding costs have risen. Should the housing recovery gather pace regardless, this will doubtless raise eyebrows at the RBNZ.

NZ GlobalDairyTrade auction, whole milk powder prices

Aug 16, Last: -8.0%, Westpac f/c: -5.0%

We expect whole milk powder prices (WMP) to fall 5% at the upcoming auction. Prices slid 8% at the previous auction.

Notably, Fonterra has announced a 5.6% increase auction volumes on offer over the next year compared to what was previously signalled. This is a large amount for the market to absorb and thus is likely to put further downward pressure on prices.

This increase may partially reflect that New Zealand production was very strong in April and May and/or the release of previously held milk powder stocks. In addition, this sudden increase in auction volumes and likely impact on prices may explain Fonterra's larger than expected milk price forecast revision (to a \$7.00/kg midpoint) last week.

NZ RBNZ Monetary Policy Statement

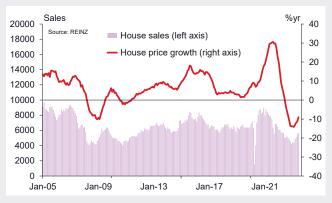
Aug 16, Last: 5.50%, Westpac f/c: 5.50%, Market f/c: 5.50%

The RBNZ will keep the OCR at 5.50% at its August policy meeting and retain its baseline forecast that the rate cycle has peaked. The Bank's forecast for the OCR should continue to indicate rates on hold until August 2024, falling slowly thereafter.

Economic developments will likely be viewed as broadly mixed and so will likely lead to only modest changes in the Bank's growth and inflation forecasts. Weaker than expected March quarter GDP and a softer outlook for the external sector are balanced against a firmer housing market and persistent domestic inflation pressures.

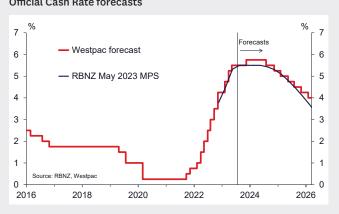
The Bank will likely emphasise that any future move in policy will depend on the emerging data flow at home and abroad.

REINZ house prices and sales





Official Cash Rate forecasts



Whole milk powder prices

The week ahead

Aus Q2 Wage Price Index %qtr

Aug 15 Last: 0.8%, WBC f/c: 1.0% Mkt f/c: 0.9%, Range: 0.8% to 1.1%tr

Wages lifted 0.8% in March, softer than the market's expectation for a 0.9% but spot on Westpac's 0.8% forecast. Wages continue to disappoint broader expectations and while private sector wage gains are moderating faster than we had anticipated, at least for now, the uptick in public sector wages means we can hold the forecast peak at 4.1%yr.

However, that forecast implies a step up in the quarterly pace of wage inflation, and given an emerging moderation in private sector wages, more emphasis will be placed on public sector wage inflation, the emerging risks to that forecast now lie to the downside.

Westpac is forecasting a 1.0% rise in the June quarter taking the annual pace from 3.7% to 3.8%. June is a seasonally soft quarter with most wage rises being paid post June 30th, and most of the remainder occurring at the start of the year.

Aus Jul Westpac-MI Leading Index

Aug 16, Last: -0.51%

The Leading Index lifted to -0.51% in June from -1.01% in May. Despite the improvement, the Index continue to send a weak signal on growth momentum, pointing to a below-trend pace continuing through the second half of 2023 and into early 2024.

The July read will include another mixed bag of component updates. On the plus-side, the ASX200 rose 2.9% and total hours worked increased slightly after big swings in previous months. But against this, commodity prices have fallen sharply again (-12.2% in AUD terms) and dwelling approvals have cycled a one-off high rise driven jump in May. Sentiment-based components have also been mixed, the Westpac-MI Consumer Expectations Index softening but the Westpac-MI Unemployment Expectations Index improving marginally. The mix is likely to leave another negative signal overall.

Aus Jul Labour Force - employment change ('000s)

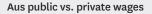
Aug 17, Last: 32.6k, WBC f/c: +25k Mkt f/c: +15k, Range: -20k to +45k

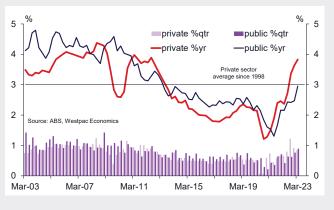
In June, employment lifted by 32.6k – slightly higher than Westpac's forecast (+25k) but well above the market median forecast (+15k).

We suspect there is scope for another robust read in July for two main reasons. Firstly, and more importantly, the data flow has not signalled any meaningful shift in tone around the current strength of labour demand, especially given the clear lack of moderation in job vacancies.

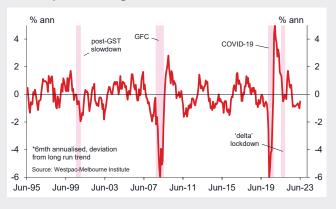
Secondly, work-hour restrictions for international students were reinstated on July 1 (from unlimited to 48hrs/fortnight). This poses an upside risk to jobs growth as employers may seek to replace the hours lost from the policy change with more workers. Admittedly, there is uncertainty around how this could present itself in the data.

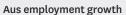
Hence, we have erred on the side of caution and pencilled in +25k for employment. By all means, this is still a robust read that is reflective of current momentum, but we note the upside risk at hand.













The week ahead

Aus Jul Labour Force - unemployment rate (%)

Aug 17, Last: 3.5%, WBC f/c: 3.5% Mkt f/c: 3.6%, Range: 3.5% to 3.7%

In June, the participation rate edged slightly lower, from 66.9% to 66.8%, seeing the labour force grow by a solid 21.8k. However, jobs growth still managed to outperform, resulting in the unemployment rate holding firm near fifty-year lows, at 3.5%. In fact, June's print was only 0.04ppt above the cycle low from October 2022.

These results speak to the resilience of the labour market, supported by a lasting strength in labour demand – as evinced by a historically elevated level of job vacancies – amidst a surge in population growth. Hence, we have marked down our profile for the unemployment rate, which we now expect to print 3.8% by end-2023 and 4.7% by end-2024 (prior: 4.0% and 5.3% respectively).

For July, we expect the participation rate will be little changed, at 66.8%, resulting in the unemployment rate holding flat at 3.5%.

Aus Jul overseas arrivals and departures, preliminary

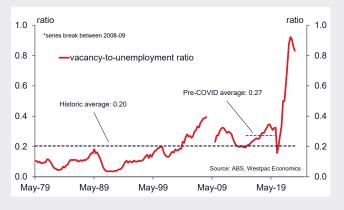
Aug 17, Arrivals, Last: 1358.5k Aug 17, Departures, Last: 1563.7k

Following on from an unexpectedly strong pace of growth over the course of last year, the recovery in overseas arrivals and departures has begun to consolidate to a more manageable but still robust pace.

Permanent and long-term travel, which tends to be a better (albeit still limited) indicator of net migration flows, is continuing to exhibit strength, with net arrivals in this category tracking monthly gains of +37k/mth on a three-month average basis. The visa detail is also constructive, suggesting that the recovery in net overseas migration is continuing to track a strong pace.

Another dynamic that remains at play is the recovery in travel from China since their reopening from COVID-19. There is some evidence that momentum is beginning to gather, particular in longer-term categories of travel, but progress on this front is certainly lagging the broader recovery to date.

Aus vacancy-to-unemployment ratio



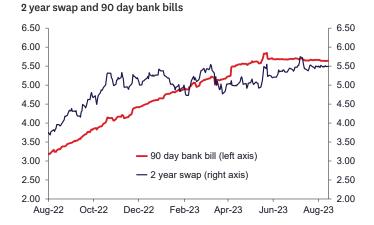
Aus permanent & long-term travel



New Zealand forecasts

Economic forecasts		Quarterly				Annual			
	2022	2023							
% change	Dec	Mar	Jun	Sep	2021	2022	2023f	2024f	
GDP (Production)	-0.7	-0.1	0.8	0.1	6.0	2.7	1.1	0.3	
Employment	0.7	1.1	1.0	0.3	3.3	1.7	2.4	0.1	
Unemployment Rate % s.a.	3.4	3.4	3.6	3.8	3.2	3.4	4.3	5.2	
CPI	1.4	1.2	1.1	2.0	5.9	7.2	4.9	2.9	
Current Account Balance % of GDP	-8.7	-8.2	-8.0	-8.2	-5.7	-8.7	-7.8	-6.0	

Financial forecasts	Sep-23	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24	Mar-25
Cash	5.50	5.75	5.75	5.75	5.50	5.25	5.00
90 Day bill	5.70	5.85	5.85	5.85	5.60	5.35	5.10
2 Year Swap	5.64	5.49	5.29	5.06	4.81	4.58	4.37
5 Year Swap	4.84	4.74	4.62	4.51	4.41	4.31	4.23
10 Year Bond	4.50	4.45	4.30	4.15	4.05	3.95	3.85
NZD/USD	0.62	0.63	0.63	0.64	0.65	0.66	0.66
NZD/AUD	0.93	0.93	0.92	0.91	0.90	0.89	0.88
NZD/JPY	87.4	86.9	85.6	85.0	85.0	84.5	83.3
NZD/EUR	0.56	0.56	0.57	0.57	0.57	0.57	0.57
NZD/GBP	0.49	0.49	0.49	0.50	0.50	0.51	0.51
тwi	71.5	71.5	70.9	71.0	71.1	71.0	70.4



NZ interest rates as at market open on 14 August 2023

Interest rates	Current	Two weeks ago	One month ago		
Cash	5.50%	5.50%	5.50%		
30 Days	5.61%	5.62%	5.60%		
60 Days	5.63%	5.64%	5.63%		
90 Days	5.64%	5.67%	5.65%		
2 Year Swap	5.49%	5.48%	5.39%		
5 Year Swap	4.87%	4.76%	4.66%		

NZD/USD and NZD/AUD



NZ foreign currency mid-rates as at 14 August 2023

Exchange rates	Current	Two weeks ago	One month ago
NZD/USD	0.5989	0.6202	0.6338
NZD/EUR	0.5466	0.5619	0.5643
NZD/GBP	0.4715	0.4820	0.4846
NZD/JPY	86.74	88.22	87.56
NZD/AUD	0.9209	0.9247	0.9303
TWI	69.90	71.39	72.47

Data calendar

		Last	Market median	Westpac forecast	Risk/Comment
Mon 14					
NZ	Jul BusinessNZ PSI	50.1	-	-	Has been trending lower since mid last year.
	Jun net migration	4939	-	-	Departures picked up sharply in May, lowering the net inflow.
Tue 15					
NZ	Jul REINZ house sales %yr	14.6%	-	-	The stabilisation of the housing market is set to continue
	Jul REINZ house prices %yr	-9.0%	-	-	with sales turning higher and prices flattening out.
Aus	Q2 wage price index	0.8%	0.9%	1.0%	Wage inflation has been surprisingly soft.
	RBA Minutes	-	-	-	More colour around the second consecutive policy pause.
Jpn	Q2 GDP	0.7%	0.7%	-	External demand likely to offset consumer's weakness.
	Jun industrial production	2.0%	-	-	Final estimate.
Chn	Jul retail sales ytd %yr	8.2%	7.6%	-	The lack of confidence is acting as a headwind to spending
	Jul industrial production ytd %yr	3.8%	3.9%	-	but as policy support comes online, momentum can shift
	Jul fixed asset investment ytd %yr	3.8%	3.8%	-	facilitating a sustained period of high-quality growth.
Eur	Aug ZEW survey of expectations	-12.2	-	-	Lingering pessimism as policy tightening ensues.
UK	Jun ILO unemployment rate	4.0%	4.0%	-	Wages growth holding up following prolonged tightness.
US	Jul retail sales	0.2%	0.4%	0.3%	Underlying downtrend in line with goods disinflation.
	Jul import price index	-0.2%	0.2%	-	Rapidly decelerating from an elevated level.
	Aug Fed Empire state index	1.1	-0.7	-	Reflective of subdued conditions for manufacturing.
	Jun business inventories	0.2%	0.2%	-	Accrual nearing stall speed as economy slows.
	Aug NAHB housing market index	56	56	-	Lack of supply aiding confidence boost.
	Fedspeak	_	-	-	Kashkari.
Wed 16	•				
NZ	GlobalDairyTrade auction	-8.0%	-	-5.0%	Down further on large increase in dairy auction volumes.
	RBNZ policy decision	5.50%	5.50%	5.50%	Another 'steady as she goes' message seems likely.
Aus	Jul Westpac-MI Leading Index	-0.51%	-	_	Pointing to below-trend growth carrying into early 2024.
Eur	Q2 GDP	0.3%	0.3%	_	No change is anticipated in the second estimate.
	Jun industrial production	0.2%	-0.6%	-	Likely to be positive in Q2, but only modestly so.
UK	Jul CPI %yr	7.9%	6.7%	_	Services prices remain strong, goods have scope to ease
US	Jul housing starts	-8.0%	0.4%	_	Struggling to gain momentum after start-of-year nadir
	Jul building permits	-3.7%	1.6%	_	risks around the pipeline to linger.
	Jul industrial production	-0.5%	0.4%	_	Regional surveys and PMIs not promising for production.
	FOMC July meeting minutes	-	-	_	Focus on consensus view around policy pause.
Thu 17					
NZ	Q2 PPI	0.3%		_	Pipeline inflation looks to be slowing.
Aus	Jul employment change	32.6k	15.0k	 25.0k	Resilience in labour demand provides scope for further gains
Aus	Jul unemployment rate				allowing the unemployment rate to remain lower, for longer.
		3.5%	3.6%	3.5%	
Inn	Jul overseas arrivals (preliminary)	1358.5k	2 50/		China to aid further in the recovery, in time.
Jpn	Jun machinery orders	-7.6%	3.5%		Broadly flat so far in Q3.
Eur	Jun trade balance €bn	-0.9	-	-	Export demand will remain a risk over foreseeable future.
US	Initial jobless claims	248k	-	-	Likely to remain near its lows, for now.
	Aug Phily Fed index	-13.5	-10.0	-	Reflective of subdued conditions for manufacturing.
- '	Jul leading index	-0.7%	-0.4%		Clearly pointing to downside risks for activity.
Fri 18					
Jpn	Jul CPI %yr	3.3%	3.3%	-	Tentative signs of core inflation cresting.
Eur	Jul CPI %yr	5.3%	5.3%	-	Final estimate to provide more colour around services.
UK	Aug GfK consumer sentiment	-30	-	-	Recovery flattening as interest rate concerns persist.
	Jul retail sales	0.7%	_	-	Up year-to-date, supported by income growth.

International forecasts

Economic Forecasts (Calendar Years)	2019	2020	2021	2022	2023f	2024f
Australia						
Real GDP %yr	1.9	-1.8	5.2	3.7	1.6	1.0
CPI inflation %yr	1.8	0.9	3.5	7.8	3.9	3.2
Unemployment rate %	5.2	6.8	4.7	3.5	3.8	4.7
Current account % of GDP	0.7	2.4	3.1	1.2	1.0	0.3
United States						
Real GDP %yr	2.3	-2.8	5.9	2.1	1.8	0.4
CPI inflation %yr	1.9	1.2	7.2	6.4	2.5	2.0
Unemployment rate %	3.7	8.1	5.4	3.6	3.6	4.5
Current account % of GDP	-2.6	-2.5	-2.4	-2.4	-2.4	-2.4
Japan						
Real GDP %yr	-0.4	-4.3	2.1	1.1	1.4	1.0
Euro zone						
Real GDP %yr	1.6	-6.1	5.4	3.5	0.6	1.2
United Kingdom						
Real GDP %yr	1.6	-11.0	7.6	4.0	0.3	0.5
China						
Real GDP %yr	6.0	2.2	8.4	3.0	5.2	5.5
East Asia ex China						
Real GDP %yr	3.8	-2.3	4.3	4.5	3.7	4.3
World						
Real GDP %yr	2.8	-2.8	6.3	3.4	3.0	3.0
Ferenets finalized 7 August 2002						

Forecasts finalised 7 August 2023

Interest rate forecasts	Latest	Sep-23	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24
Australia							
Cash	4.10	4.10	4.10	4.10	4.10	3.85	3.60
90 Day BBSW	4.18	4.30	4.30	4.30	4.22	3.97	3.72
10 Year Bond	4.12	3.75	3.55	3.45	3.30	3.25	3.20
International							
Fed Funds	5.375	5.375	5.375	5.125	4.625	4.125	3.625
US 10 Year Bond	4.11	3.80	3.60	3.40	3.20	3.10	3.00

Exchange rate forecasts	Latest	Sep-23	Dec-23	Mar-24	Jun-24	Sep-24	Dec-24
AUD/USD	0.6521	0.67	0.68	0.69	0.71	0.73	0.74
USD/JPY	144.72	140	138	135	132	130	128
EUR/USD	1.0989	1.11	1.12	1.12	1.13	1.14	1.15
GBP/USD	1.2684	1.28	1.28	1.29	1.29	1.30	1.30
USD/CNY	7.2276	7.10	7.00	6.80	6.70	6.60	6.50
AUD/NZD	1.0852	1.07	1.08	1.09	1.10	1.12	1.12

Contact the Westpac economics team

Kelly Eckhold, Chief Economist 🐛 +64 9 348 9382

Satish Ranchhod, Senior Economist +64 9 336 5668

Darren Gibbs, Senior Economist **L** +64 9 367 3368

Nathan Penny, Senior Agri Economist **L** +64 9 348 9114

Paul Clark, Industry Economist +64 9 336 5656

Shania Bonenkamp, Graduate 🔀 shania.bonenkamp@westpac.co.nz Any questions email: 🔀 economics@westpac.co.nz

Disclaimer

Things you should know

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

Disclaimer

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 yield 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 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 loffer, 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 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 NewZealand branch of Westpac and WNZL can be obtained at the internet address 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 and Insurance Regulatory Commission (CBIRC). 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 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 Friancial 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 O5660023) and is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct 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 Conduc 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 recor

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.

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

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. disclaimers set out with respect to Westpac apply equally to WCM. If contents of this communication. All disclaimers set out with respect to Westpac apply equally to WCM. 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. self-regulatory 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.