

Westpac Economics Team





Our latest household confidence surveys found that New Zealanders are increasingly concerned about the state of their own finances and the wider economy, but are more positive about the state of the labour market. That's an unusual combination, and it reflects the unusual economic conditions we find ourselves in.

The Westpac McDermott Miller consumer confidence index fell by 7 points to 92.1 in the March quarter. That takes the index even lower than it was during the Covid lockdown in 2020. Households have become even more pessimistic on both their own finances and the economic outlook for the years ahead, and are more apprehensive about making major purchases.

That pessimism extended to concerns about their regional economies, with all but one region recording a drop in confidence for the quarter. The progress of the Omicron outbreak was probably more of a factor for some regions than others, and the agriculture-focused regions fared relatively better, buoyed by strong export commodity prices. But the extent of the drop in confidence suggests that the factors behind it were universal.

But despite that pessimism about the broader economic backdrop, households have actually been growing increasingly confident about the state of the labour market. Households noted the increasing number of jobs available, with employers desperate to find workers. A growing number of them also reported a lift in their earnings over the last year, though that measure is still running below its pre-pandemic levels.

The common theme in these survey responses is inflation. The cost of living has been rising rapidly, and even though a tight labour market means that workers are in a strong position to negotiate pay increases, many people feel like they're struggling to get ahead.

Once again, this highlights the challenge that lies ahead for the Reserve Bank. The inflation rate has risen to a three-decade high, and is expected to remain above the target range for at least the rest of this year. And while much of the rise in prices has been due to external factors beyond the central bank's control, people are increasingly looking to bake this into their future wage and price setting.

The inflation targeting framework has served the economy well over the years. Indeed, one of its great successes has been that most of the time we just don't need to think about inflation in our day-to-day business.

But that framework is centred around dealing with demanddriven inflation pressures. What we're experiencing now is a combination of both homegrown inflation pressures and a range of cost shocks from overseas, with the risk that the latter can feed back into the former.

There are no easy answers about how central banks should deal with this. For instance, a jump in oil prices acts like a tax on activity, adding to inflation in the short term but weighing on demand elsewhere in the economy. Raising interest rates to counter the near-term rise in inflation would come at the expense of even weaker activity, and it's not clear that this would be welfare-enhancing.

On the other hand, our history shows that appearement doesn't work either. Running looser monetary policy, to soften the impact of rising living costs, just increases the risk that high inflation becomes entrenched over time.

It would seem that the answer for the central bank is to not jump in either direction. Indeed, in the past the RBNZ has assessed that the impact of oil prices on monetary policy settings is zero. (Oil is an example of a pure cost shock, as New Zealand imports all of the oil that it consumes; higher prices for our export commodities are more obviously a plus for interest rates.)

But this only holds true if the economy is starting from a balanced position. In this case, we're starting with an economy that was already running hot, in part due to the substantial policy stimulus in response to the Covid shock. An overheating economy increases the risk that wage- and price-setting becomes unanchored from the RBNZ's inflation target.

So the need to keep inflation expectations in check means that higher interest rates are required, and that early action is better. In this respect the RBNZ is relatively well positioned, having started lifting the Official Cash Rate last year. In contrast, some of its international peers are only just getting this process under way - the US Federal Reserve increased its policy rate for the first time this month, and the first move from the Reserve Bank of Australia still looks to be several months away.

That distinction appears to have been lost on financial markets, however. Growing expectations that the Fed will raise interest rates faster - spurred on by comments by some Committee members about 50 basis point moves - have seen US interest rates rise sharply in recent weeks, and New Zealand rates have been marked higher in tandem. We'd argue that markets are now overpricing the likely extent of OCR hikes over the next couple of years.

If we're right about that though, what would prompt the market to correct? We think it will come down to the evidence that monetary policy is already getting enough traction - cooling down the housing market, and ultimately slowing consumer demand to more sustainable levels.

We're already seeing the evidence on that first part, with house prices falling by 3% over the last three months. We expect further declines as the higher level of mortgage rates continues to do its work, and we're forecasting house prices to drop by around 10% in total over the next two years.

Michael Gordon, Acting Chief Economist

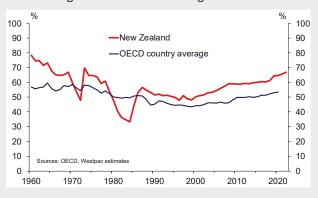
+64 9 336 5670

michael.gordon@westpac.co.nz

Chart of the week

From the 1st of April the minimum wage will increase by 6% to \$21.20 per hour, broadly keeping pace with inflation over the last year. New Zealand's minimum wage has typically been more generous compared to the average OECD country, except in the 1970s and early 1980s when high generalised inflation eroded its real value between reviews.

Minimum wage as a % of the median wage

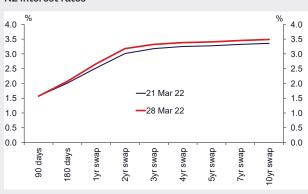


Fixed vs floating for mortgages

Wholesale interest rates are now largely in line with our forecast of a 3% cash rate by mid-2023. That suggests there is no longer an advantage to fixing for longer terms.

While the one-year mortgage rate is likely to rise further in the next couple of years, fixing and rolling for this term is likely to produce a lower borrowing cost on average over the next few years. Longer fixed terms are more suited to those who want certainty in their repayments.

NZ interest rates



The week ahead

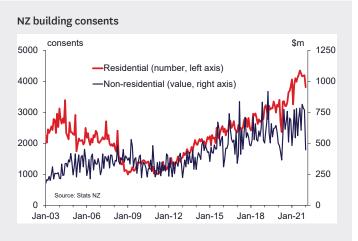
NZ Feb residential building consents

Mar 30, Last: -9.2%, Westpac f/c: +10.0%

Consent issuance dropped 9% in January. That decline was concentrated in the more volatile medium density categories following a few months of very strong issuance last year.

We're forecasting a 10% rise in issuance in February, reflecting a reversal of last month's drop in multi-unit consents. That would take consent issuance back around the very strong levels we've seen since the middle of last year.

We expect consent issuance and home building will remain strong for some time yet. However, the housing market has been cooling in recent months. Over time, that is likely to weigh on the number of new projects that come to market.



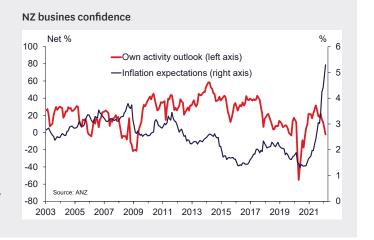
NZ Mar ANZBO business confidence

Mar 30, Last: -51.8

Business confidence nose dived in the early part of the year. That drop was not unexpected. In addition to surging Omicron infections, businesses are grappling with a range of headwinds including shortages of staff and materials, as well as the strong rise in inflation pressures.

We expect confidence will remain weak in the March survey. Recent weeks have seen a rapid rise in Omicron infections, as well as the invasion of Ukraine.

We also expect price and inflation gauges will remain high, especially given the sharp rise in fuel costs in recent weeks.x

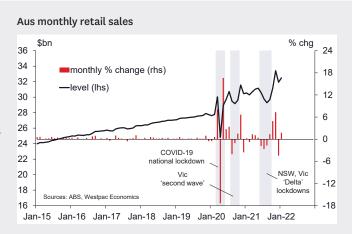


Aus Feb retail trade

Mar 29, Last: 1.8%, WBC f/c: 1.5% Mkt f/c: 0.9%, Range: 0.0% to 1.5%

Retail posted a surprisingly robust 1.8% gain in Jan with omicronrelated drags fairly minimal in the month - only two storetypes recorded outright sales declines and some exposed segments holding up much better than expected. Recall that retail was also coming off a relatively strong Dec with the post-delta reopening driving a 7.6% lift vs Sep, with the Dec month suggesting some of this 'catch-up' spend was starting to run off.

Our Westpac Card Tracker was much softer in Jan but rebounded strongly in Feb, flooding events in Qld and NSW only taking a little of the gloss off. We suspect some of the difference between the card data and official retail sales may be down to the allocation of weekly data to different months. On that basis, we expect Feb to show another relatively strong 1.5% gain, bringing the two measures more in line on a two month basis. Note that some of the gain will be due to rising prices rather than volumes.



The week ahead

Aus 2022 Federal Budget, \$bn

Mar 29, Last, 2021/22: -77.7 (est), 2022/23 WBC f/c: -76.9

The budget deficit profile will be lowered in the Federal Budget benefiting from a stronger economy. Commodity prices are higher than anticipated in MYEFO, boosting national income. We estimate a potential budget windfall of \$78bn across the four years to 2024/25.

The policy focus in this budget shifts from boosting demand to supporting supply, with the unemployment rate this year to be at the lowest level since 1974. We've allowed for \$20bn of new spending, including: a cost of living package; and supply measures, to lift labour force participation and increase productivity.

On our figures, the budget deficit estimate for 2021/22 is lowered to \$77.7bn from \$99.2bn in MYEFO, a \$21.5bn improvement (after including \$7.5bn in new spending). The 2022/23 deficit is trimmed by \$22bn (after \$6bn in spending) to \$76.9bn, -3.3% of GDP.

For additional detail, see our Budget Preview from March 21.

Aus Federal budget, \$bn

	2021/22	2022/23	2023/24	2024/25
Budget deficit, MYEFO	-99.2	-98.9	-84.5	-57.5
% of GDP	-4.5	-4.4	-3.6	-2.3
Stronger economy boost	29.0	28.0	11.0	10.0
Cost of new policy	-7.5	-6.0	-3.0	-3.5
Budget deficit, Budget	-77.7	-76.9	-76.5	-51.0
% of GDP	-3.4	-3.3	-2.7	-2.0
Gross debt, MYEFO	919	1,017	1,110	1,189
% of GDP	41.8	45.6	47.7	48.6
Gross debt, Budget	898	974	1,059	1,131
% of GDP	40.8	43.7	45.5	46.3
Sources: Budget papers. Westpac Economics	forecasts			

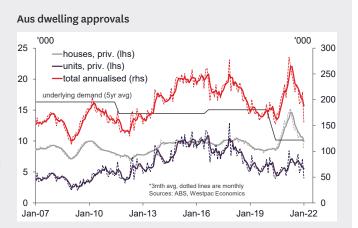
Aus Feb dwelling approvals

xMar 31, Last: -27.9%, WBC f/c: 20% Mkt f/c: 10%, Range: -25.3% to 50.0%

Dwelling approvals posted a surprise slump in Jan, recording a 27.9% drop that was both steep and broad-based. The falls almost certainly reflect COVID disruptions around the start of the year, 'amplified' by seasonal adjustments. Jan housing data always needs to be read with caution and that looks to be even more the case this year.

Feb is almost certain to see a very large reversal. A full reversal to Dec levels would see approvals jump nearly 40% in the month. However, the Dec read was flattered by a big post-delta rebound in high rise units. A more muted rebound to something closer to Oct-Nov levels seems more likely but would still see an impressive gain in the order of +20%.

Clearly this excessive monthly noise makes it next to impossible to pick out ongoing trends - it will take a few more monthly updates to get a confident read on momentum.



US Mar employment report

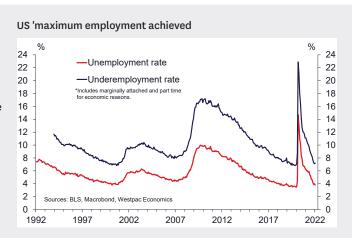
Apr 1, nonfarm payrolls, Last: 678k, WBC f/c: 500k, Mkt f/c: 450k; Apr 1, unemployment rate, Last: 3.8%, WBC f/c: 3.7%, Mkt f/c: 3.7%

The US economy continues to produce jobs at a rapid rate, the average monthly gain over the past six months coming in circa 580k. In March, we expect a similar result of 500k.

For now, it seems that risks remain to the upside, with participation's intermittent move higher allowing labour supply to more fully meet

As a result, while in March we expect an unchanged participation rate, even if it does lift, the unemployment rate is still likely to move lower to 3.7%.

Hourly earnings have surprised to the downside the past two months and so are due for a robust gain in March. Still, real wages growth will continue to decline.

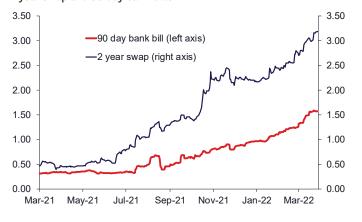


New Zealand forecasts

Economic forecasts		Quai	rterly		Annual			
	2021	2022						
% change	Dec (a)	Mar	Jun	Sep	2020	2021	2022f	2023f
GDP (Production)	3.0	0.3	0.7	2.3	-2.1	5.6	3.4	4.8
Employment	0.1	0.5	0.2	0.1	0.6	3.7	0.9	1.0
Unemployment Rate % s.a.	3.2	3.1	3.0	3.0	4.9	3.2	3.0	3.3
СРІ	1.4	1.7	0.9	1.1	1.4	5.9	4.0	2.7
Current Account Balance % of GDP	-5.6	-5.8	-6.5	-6.5	-0.8	-5.6	-6.1	-5.5

Financial forecasts	Jun-22	Sep-22	Dec-22	Mar-23	Jun-23	Sep-23	Dec-23
Cash	1.50	2.00	2.25	2.50	2.75	3.00	3.00
90 Day bill	1.90	2.20	2.45	2.70	2.95	3.10	3.10
2 Year Swap	3.30	3.30	3.25	3.20	3.15	3.10	3.00
5 Year Swap	3.45	3.45	3.40	3.35	3.30	3.25	3.15
10 Year Bond	3.40	3.40	3.20	3.15	3.10	3.05	3.00
NZD/USD	0.68	0.70	0.71	0.72	0.72	0.73	0.73
NZD/AUD	0.93	0.93	0.93	0.93	0.92	0.92	0.91
NZD/JPY	79.2	81.9	83.8	84.4	85.7	86.3	86.9
NZD/EUR	0.62	0.63	0.63	0.63	0.63	0.63	0.63
NZD/GBP	0.51	0.52	0.53	0.53	0.53	0.53	0.54
TWI	72.8	74.4	74.9	74.9	74.8	75.1	75.3

2 year swap and 90 day bank bills



NZ interest rates as at market open on 28 March 2022

Interest rates	Current	Two weeks ago	One month ago
Cash	1.00%	1.00%	1.00%
30 Days	1.19%	1.05%	1.04%
60 Days	1.39%	1.27%	1.15%
90 Days	1.57%	1.49%	1.26%
2 Year Swap	3.19%	3.03%	2.75%
5 Year Swap	3.41%	3.25%	2.99%

NZD/USD and NZD/AUD



NZ foreign currency mid-rates as at 28 March 2022

Exchange rates	Current	Two weeks ago	One month ago
NZD/USD	0.6948	0.6795	0.6739
NZD/EUR	0.6323	0.6199	0.6001
NZD/GBP	0.5273	0.5211	0.5025
NZD/JPY	84.75	80.21	77.87
NZD/AUD	0.9259	0.9380	0.9333
TWI	74.75	73.51	72.22

Data calendar

		Last	Market median	Westpac forecast	Risk/Comment
Mon 28					
UK	Mar Nationwide house prices	1.70%	_	_	Rising mortgage rates set to cool demand over 2022.
US	Feb wholesale inventories	0.80%	1.20%	_	Stocks are being replenished at a robust pace.
	Mar Dallas Fed index	14	10	-	Will provide a timely update on manufacturing in Texas.
ue 29					
lus	Feb retail sales	1.80%	0.90%	1.50%	Jan up better than expected. Weather, price effects in Feb.
	2022/23 Federal Budget, \$bn	-77.7(e)	_	-76.9	Stronger economy delivers budget windfall ahead of election.
JK	Feb net mortgage lending £bn	5.9	_	_	Softer lending patterns to eventuate with higher rates.
IS	Jan FHFA house prices	1.20%	1.30%	_	Soft inventory and eager buyers
	Jan S&P/CS home price index	1.46%	1.50%	-	to drive house price growth before rate hikes take effect.
	Mar consumer confidence index	110.5	107.8	-	Inflation concerns to dampen confidence.
	Feb JOLTS job openings	11263k	11000k	-	Pointing to extraordinary demand for workers.
	Fedspeak	_	-	_	Harker.
/ed 30					
Z	Feb building permits	-9.2%	-	10.00%	Rebound after last month's fall in multi-unit numbers.
	Mar ANZ business confidence	-51.8	-	-	Business confidence and conditions to remain subdued.
ır	Mar economic confidence	114	110	-	Russia-Ukraine conflict and inflation set to
	Mar consumer confidence	-18.7	-	-	weigh heavily on European confidence.
S	Mar ADP employment change	475k	413k	-	Jobs growth recovering to strong levels after omicron decline.
	Q4 GDP	7.00%	7.10%	-	Small upward revision anticipated in final estimate.
	Fedspeak	_	-	_	Bostic and Barkin.
hu 31					
us	Feb dwelling approvals	-27.9%	10%	20%	Omicron created extreme volatility at start of the year.
	Feb private sector credit	0.60%	0.60%	0.60%	Jan 7.6% yr, strongest since 2008 – boost from policy stimulus
pn	Feb industrial production	-0.8%	0.80%	-	Volatility remains as supply issues are worked through.
hn	Mar manufacturing PMI	50.2	50	-	COVID-19 disruptions are ongoing concerns
	Mar non-manufacturing PMI	51.6	50.7	-	but underlying strength of the economy is clear.
ur	Feb unemployment rate	6.80%	6.70%	_	Tight labour market laying foundation for wages growth.
IK	Q4 GDP	1.00%	-	_	Economy in robust health; fit to handle rate hikes over 2022.
IS	Feb personal income	0.00%	0.50%	_	Weakening purchasing power is a concern
	Feb personal spending	2.10%	0.50%	_	strength in services necessary for above trend GDP g'th.
	Feb PCE deflator	0.60%	0.60%	_	PCE inflation has reached a 40-year high
	Feb core PCE deflator	0.50%	0.40%	_	price pressures will only slowly abate through 2022.
	Initial jobless claims	187k	-	_	Set to remain very low for foreseeable future.
	Mar Chicago PMI	56.3	57.1	_	Supply issues are an ongoing concern.
	Fedspeak	_	_	_	Williams.
ri 01	·				
us	Mar CoreLogic home value index	0.30%	-	0.30%	Gains stalled in Syd, Melb, but still strong in some cities.
	Feb housing finance	2.60%	1.50%	2.50%	Market showing a clear moderation since late 2021
	Feb owner occupier finance	1.00%	_	1.00%	centred on owner occupiers, first time buyers especially
	Feb investor finance	6.10%	_	5.50%	but with investors still showing good momentum
ΙZ	Mar ANZ consumer confidence	81.7	_	_	Confidence low, high inflation is a big concern.
pn	Q1 Tankan large manufacturers index	18	12	_	Commodity prices and supply issues to weigh on sentiment.
-	Mar Nikkei manufacturing PMI	53.2	_	_	Final estimate for the month.
hn	Mar Caixin China PMI	50.4	50	_	Mfg to work through COVID-19 with authorities' support.
ur	Mar Markit manufacturing PMI	57	_	_	Final estimate for the month.
	Mar CPI %yr	5.80%	6.30%	_	Energy inflation expected to come through strongly.
IK	Mar Markit manufacturing PMI	55.5	_	_	Final estimate for the month.
JS	Mar non-farm payrolls	678k	450k	500k	Employment gains to continue at healthy pace
	Mar unemployment rate	3.80%	3.70%	3.70%	pushing unemployment rate lower
	Mar average hourly earnings %mth	0.00%	0.40%	0.30%	and supporting robust wages growth.
	Mar Markit manufacturing PMI	58.5		_	Final estimate for the month.
	Mai Maikit illallulacturilly FMI	30.3			
	Feb construction spending	1.30%	1.00%		Spending supported by strength in home building.

International forecasts

Economic Forecasts (Calendar Years)	2018	2019	2020	2021f	2022f	2023f
Australia						
Real GDP %yr	2.8	2.0	-2.2	4.7	5.2	3.9
CPI inflation %yr	1.8	1.8	0.9	3.5	4.1	2.3
Unemployment rate %	5.0	5.2	6.8	4.7	3.8	3.9
Current account % of GDP	-2.1	0.7	2.6	3.5	4.1	-1.5
United States						
Real GDP %yr	3.0	2.2	-3.5	5.7	3.2	2.3
CPI inflation %yr	2.4	1.9	1.3	7.1	4.0	2.3
Unemployment rate %	3.9	3.7	8.1	5.4	3.6	3.3
Current account % of GDP	-2.3	-2.6	-2.5	-2.4	-2.4	-2.4
Japan						
Real GDP %yr	0.6	0.3	-4.8	1.8	2.4	1.3
Euro zone						
Real GDP %yr	1.9	1.3	-6.6	4.9	3.2	2.1
United Kingdom						
Real GDP %yr	1.3	1.4	-9.9	7.3	3.7	2.0
China						
Real GDP %yr	6.7	5.8	2.3	8.1	5.7	5.6
East Asia ex China						
Real GDP %yr	4.4	3.7	-2.4	4.2	4.7	4.6
World						
Real GDP %yr	3.6	2.8	-3.3	5.5	4.0	3.5

Forecasts finalised 11 March 2022

Interest rate forecasts	Latest	Jun-22	Sep-22	Dec-22	Mar-23	Jun-23	Sep-23	Dec-23
Australia								
Cash	0.10	0.10	0.25	0.75	1.00	1.25	1.50	1.75
90 Day BBSW	0.20	0.20	0.35	0.85	1.20	1.45	1.70	1.95
10 Year Bond	2.80	2.90	2.80	2.50	2.40	2.25	2.10	2.10
International								
Fed Funds	0.375	1.375	1.875	2.375	2.375	2.375	2.375	2.375
US 10 Year Bond	2.37	2.60	2.60	2.30	2.20	2.15	2.10	2.10

Exchange rate forecasts	Latest	Jun-22	Sep-22	Dec-22	Mar-23	Jun-23	Sep-23	Dec-23
AUD/USD	0.7517	0.73	0.75	0.76	0.77	0.78	0.79	0.80
USD/JPY	121.83	122	121	121	120	120	119	119
EUR/USD	1.1026	1.10	1.11	1.12	1.13	1.14	1.15	1.15
GBP/USD	1.3201	1.33	1.34	1.35	1.36	1.37	1.37	1.36
USD/CNY	6.362	6.30	6.30	6.25	6.20	6.15	6.15	6.10
AUD/NZD	1.0786	1.07	1.07	1.07	1.08	1.08	1.09	1.10

Contact the Westpac economics team

Michael Gordon, Acting Chief Economist

+64 9 336 5670

Satish Ranchhod, Senior Economist

+64 9 336 5668

Nathan Penny, Senior Agri Economist

+64 9 348 9114

Paul Clark, Industry Economist

+64 9 336 5656

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 457141 ('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 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 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, as officiation 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 he performance of WNXL 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.

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 ism 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. 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 Could 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 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 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). (Regulation(EÚ) 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.

We stpac 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.

We stpac 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;
- physical separation of various Business/Support Units;
- (iii) and well defined wall/cell crossing procedures;
- a "need to know" policy;
- (v) documented and well defined procedures for dealing with conflicts of interest;
- 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 whollyowned 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 Bul 15.6.6 under the Exchange Act of it not exhibite to all of the rom 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 investing III any non-0.5. Securities of related inharical instruments inelitoried 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.