

8 NOVEMBER 2024

WESTPAC-DATAX CARD TRACKER



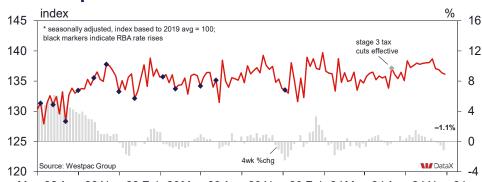
Q4 off to a shaky start

- The Westpac Card Tracker Index* declined further over the last fortnight, falling -0.7pts to 136.2 for the week ended November 2.
- With the full October results now on hand, Q4 seems to have begun on a weak footing. The index has fallen for four consecutive weeks, a result only evidenced three times before (excluding the COVID-19 period), finishing October -0.4% lower than September.
- The quarterly growth pulse is holding up a bit better, running at +1.1%qtr. While this aligns with the Q3 pace, it marks a slight slowdown from the +1.5%qtr pace seen two weeks ago.
- The category breakdown continues to show spending activity concentrated on discretionary goods and services.
 However the monthly pulse points to some notable slowing, particularly for vehicle and travel related spending.
- By state, spending-related card activity in WA has continued to pick up in recent weeks, even on a per capita basis. This stands in contrast to other states, where momentum has slowed.

- The ABS has now released September results for the household spending indicator, business turnover, and retail sales. These reports reveal minimal impact from the stage 3 tax cuts so far, confirming the trends seen in the Westpac Card Tracker Index.
- It is possible that some of this muted effect reflects consumers delaying spend to take advantage of sales windows. This has been a clear pattern over the last year. For example, the week of Black Friday in 2023 saw a +6.1% lift in spending (discretionary ex. food) compared to the previous week, while the week of 'End of Financial Year' saw a +4.5% increase. As such, this year's Black Friday sales, set to kick off from November 29, will be the next key test of the Australian consumer both the extent of this year's lift and the steepness of the post-sales drop-off.

"... Black Friday sales ... will be the next key test of the Australian consumer ..."

1. Westpac Card Tracker Index*



May-22 Aug-22 Nov-22 Feb-23 May-23 Aug-23 Nov-23 Feb-24 May-24 Aug-24 Nov-24

The **Westpac Card Tracker** presents indicators based on the millions of credit and debit card transactions processed by Westpac every day. The measures are a timely guide to shifts in spending. See p9 for a detailed explanation.

This report is produced by Westpac Economics.

Matthew Hassan, Head of Australian Macro-Forecasting **Neha Sharma,** Economist

Email: economics@westpac.com.au

This issue was finalised on 8 November 2024.

If you would like more insights into your sector or your own business from this and other Westpac data please visit Westpac DataX or contact datax@westpac.com.au.

^{*} see p9 or more details on the Index construction.



Card activity loses some steam as other indicators confirm weak Q3

- Chart 3 shows the Westpac Card Tracker's quarterly growth pace alongside the ABS household spending and business turnover measures.
- After building momentum through Q3 and into mid-October, card activity has slowed recently, now growing at 1.1% gtr. While this aligns with the Q3 pace, it marks a decrease from the 1.5% gtr rate seen two weeks ago.
- Other monthly indicators have been unexpectedly soft so far, with the recently released September results confirming that this weakness persisted throughout Q3.
- The ABS household spending indicator fell -0.1%mth in September, giving an underwhelming +0.2%gtr gain. The real (inflation-adjusted) estimates indicated a 1.6% gtr rise in Q3 but this figure is not seasonally adjusted. Westpac Economics' preliminary seasonally adjusted estimate points to a sizeable -0.8% atr decline in real terms (see here for more).
- The ABS business turnover measure also highlighted a material deterioration for consumer-related sectors. Turnover has fallen for four consecutive months now, and on a quarterly basis declined -1.1%qtr in September, the weakest result since October 2021.

qtly%ch	Q1	Q2	Q3	latest
Westpac Card Tracker*	1.2	-0.4	1.1	1.1
Other indicators (nominal)				
Household spending*	1.1	0.3	0.2	n.a.
Turnover*	1.6	1.4	-1.1	n.a.
Consumer spending (qtly)#				
Nominal	1.5	0.1	n.a.	n.a.
Real	0.7	-0.3	n.a.	n.a.

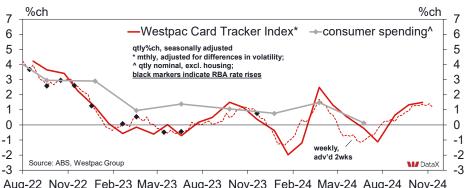
All series are seasonally adjusted, latest is latest weekly obs (12wks %ch on previous 12wks) or latest monthly obs (3mths %ch on previous 3mths). See p9 for more details.

*ABS experimental measures. Household spending indicator based on bank transaction data (seasonally adjusted by Westpac). Turnover based on BAS returns for consumer-sector businesses:

#Consumer spending excludes housing costs

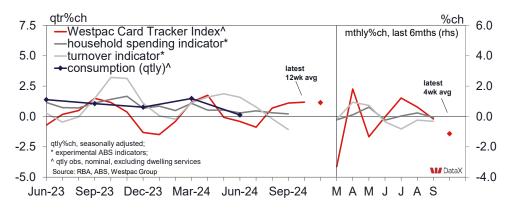
Sources: ABS, Westpac Group

2. Card activity and spending: growth momentum



Aug-22 Nov-22 Feb-23 May-23 Aug-23 Nov-23 Feb-24 May-24 Aug-24 Nov-24

3. Consumer spending: selected indicators





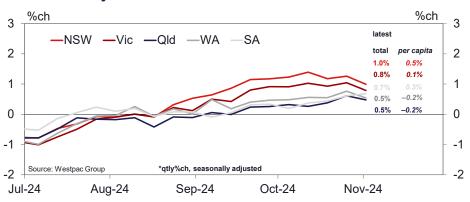
Momentum slowing across most states and categories

- Spending trends have eased across most states.
- NSW and Vic remain ahead, at 1.0%qtr and 0.8%qtr respectively, although momentum is showing clearer signs of softening. Meanwhile, spending in Qld and SA also moderated slightly, posting a +0.5%qtr lift, implying a slight decline in per capita terms.
- In contrast, WA continues to strengthen, with the latest result showing a +0.7%qtr increase. Growth has also firmly lifted into positive territory on a per capita basis. These results have likely been supported by a stronger labour and housing market relative to other states.
- By category, discretionary services continues to grow at a solid +2.9%qtr, but the pace has been slowing in Q4. Meanwhile, spending on essentials dropped by -0.6%qtr, partly due to the impact of government subsidies. Spending on essential goods remain weak at -0.7%qtr, albeit mostly reflecting lower fuel prices rather than volumes, while discretionary goods hold steady at 0.8%qtr.
- The detailed sub-categories (see p6)
 highlights a broad-based weakening in
 spending over the past month. Of the 12
 sub-categories, the monthly growth pulse
 has been negative for all but food and
 other durables.

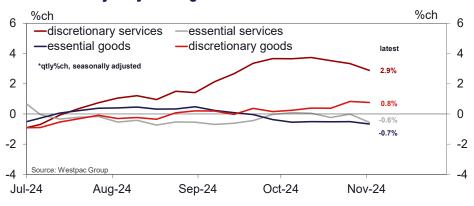
Aug	Sep	Oct	2/11
137.8	137.5	137.0	136.2
137.4	137.8	137.7	136.2
135.1	133.8	133.5	133.3
131.7	131.5	131.1	129.3
134.0	132.8	132.4	131.1
148.7	148.8	148.6	146.3
147.4	148.3	148.1	147.9
145.0	145.2	145.6	145.3
	137.8 137.4 135.1 131.7 134.0 148.7 147.4	137.8 137.5 137.4 137.8 135.1 133.8 131.7 131.5 134.0 132.8 148.7 148.8 147.4 148.3	137.8 137.5 137.0 137.4 137.8 137.7 135.1 133.8 133.5 131.7 131.5 131.1 134.0 132.8 132.4 148.7 148.8 148.6 147.4 148.3 148.1

All indexes based on the value of spending–related transactions, seasonally adjusted, 2019 avg=100, see p9 for more details including classifications. Sources: ABS, Westpac Group

4. Card activity: states



5. Card activity: major categories





Retail spending continues its upward trajectory

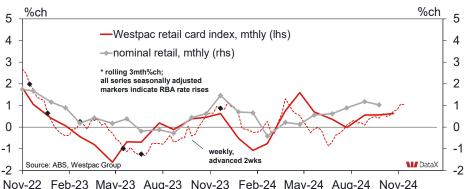
- Our 'retail' measure covers a narrower subset of card activity that aligns more closely to the ABS retail survey.
- With a quarterly growth rate of +1.0%qtr, retail card activity remains more subdued than non-retail segments, but continues to steadily gain momentum.
- The detail shows hospitality retail continuing to grow at an elevated pace, tracking +2.3% qtr. Non-food retail rose to +1.0% gtr, while the large basic food retail segment lifted back into positive territory, growing +0.1%qtr.
- After an upside surprise in August, the ABS retail sales report for September was more downbeat, showing a nominal

- increase of +0.1%mth to finish the quarter +1.0% atr higher. Meanwhile retail volumes increased +0.5% gtr in Q3, marking only the second quarterly increase in the last two years. See here for more details.
- Retail activity should see a little more life going forward, particularly as Black Friday sales kick off on November 29. Cost-of-living pressures have seen consumers gravitate towards spending during discount periods, as evidenced during End of Financial Year sales earlier in the year. Importantly that means we need to pay close attention to both the sales responses and the extent of weakness outside of sales windows.

	Aug	Sep	Oct	2/11
By retail/non retail				
Retail card index	142.8	142.9	143.1	143.0
- qtly%ch	0.6	0.6	0.6	1.0
– qtly, ann%ch	1.1	1.2	1.1	1.2
Non-retail card index	132.1	131.6	130.2	129.0
ABS retail sales				
– %ch	0.7	0.1	n.a.	n.a.
– ann%ch	3.1	2.3	n.a.	n.a.
– qtly%ch	1.2	1.0	n.a.	n.a.
– qtly ann%ch	2.8	2.6	n.a.	n.a.

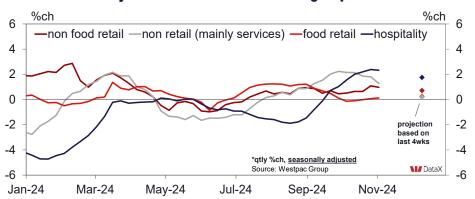
All indexes based on the value of spending-related transactions, seasonally adjusted. 2019 avg=100, see p9 for more details. Sources: ABS, Westpac Group

6. Card activity: retail



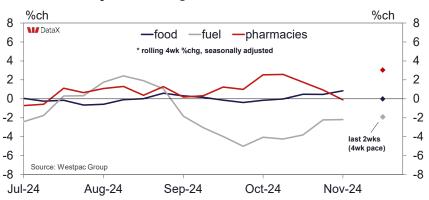
Nov-22 Feb-23 May-23 Aug-23 Nov-23 Feb-24 May-24 Aug-24 Nov-24

7. Card activity: broad retail and non-retail groups

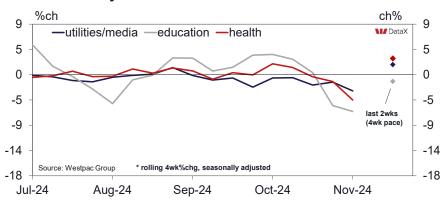


DETAILED CHARTS

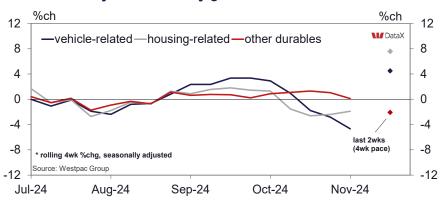
8. Card activity: essential goods



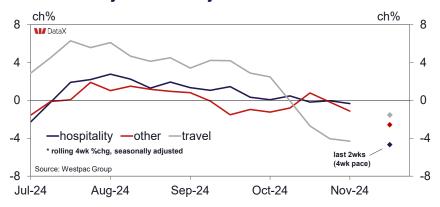
10. Card activity: essential services



9. Card activity: discretionary goods

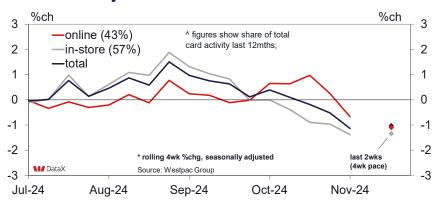


11. Card activity: discretionary services

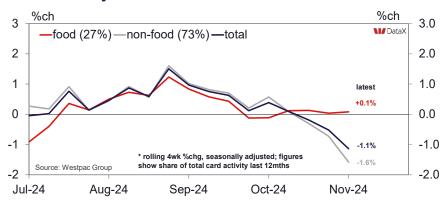


DETAILED CHARTS

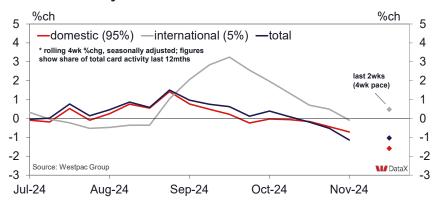
12. Card activity: online and in-store



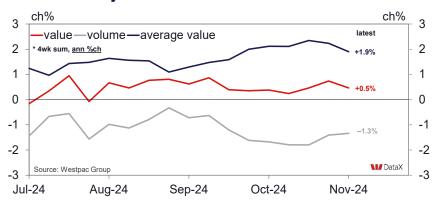
14. Card activity: food and non-food



13. Card activity: domestic and international



15. Card activity: value and volume



NEW WESTPAC CARD INDICATORS*

	2022	2023	2023 2024						week ending:							
	Q4	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Aug	Sep	Oct	12/10	19/10	26/10	2/11
Westpac Card Tracker Index	135.8	135.6	134.7	136.7	134.9	136.5	135.9	137.4	137.8	137.5	137.0	137.0	136.9	136.4	136.2	
qtly%ch	1.2	-0.1	-0.7	1.5	-1.3	1.2	-0.4	1.1	0.7	1.1	1.2	1.4	1.3	1.4	1.1	
qtly, ann%ch	14.0	10.6	4.0	1.8	-0.7	0.6	0.9	0.5	0.6	0.5	0.5	0.5	0.6	0.7	0.6	
By category																
– discretionary	137.1	136.5	135.2	136.8	134.6	136.0	135.1	137.2	137.4	137.8	137.7	137.8	137.5	136.8	136.2	
– essential	132.2	132.5	132.2	133.3	133.1	135.4	135.6	134.4	135.1	133.8	133.5	132.4	133.0	132.7	133.3	
services	128.4	130.6	132.6	134.1	129.6	133.0	131.8	134.8	132.7	134.7	133.7	134.2	134.1	133.4	132.3	
– discretionary services	133.1	131.7	132.4	135.0	130.9	132.9	131.0	134.3	134.8	134.8	134.6	136.4	135.5	134.1	133.4	
– essential services	123.7	126.0	127.3	129.8	129.0	131.7	134.8	134.6	135.2	134.5	130.9	127.8	130.2	131.4	129.0	
goods	139.7	138.0	137.1	137.2	137.2	137.8	138.3	137.9	138.0	137.9	137.6	137.2	137.3	137.0	137.6	
– discretionary goods	142.4	139.9	139.0	138.6	138.7	138.5	140.0	140.5	140.1	141.0	140.9	139.3	139.7	139.9	139.4	
– essential goods	136.7	135.1	134.9	135.1	135.2	136.8	136.2	134.4	135.2	133.7	133.9	134.6	134.3	133.4	135.4	
retail*	142.7	141.5	140.5	141.1	140.4	141.4	141.9	142.7	142.8	142.9	143.1	144.0	143.2	142.3	143.0	
qtly%ch	0.4	-0.8	-0.7	0.4	-0.5	8.0	0.4	0.6	0.6	0.6	0.6	0.7	8.0	1.1	1.0	
qtly, ann%ch	9.0	6.2	2.0	-0.7	-1.6	-0.1	1.0	1.2	1.1	1.2	1.1	1.2	1.1	1.2	1.2	
By state																
- NSW	132.0	131.5	130.0	130.5	129.7	131.5	130.7	131.4	131.7	131.5	131.1	130.4	129.6	129.6	129.3	
– Vic	136.1	135.4	133.9	135.1	133.0	134.1	132.7	133.3	134.0	132.8	132.4	133.3	133.6	132.6	131.1	
– Qld	143.7	144.4	144.5	145.9	145.3	147.3	147.4	148.4	148.7	148.8	148.6	146.0	146.5	146.1	146.3	
-WA	140.5	141.8	141.6	142.8	144.7	146.2	146.2	147.5	147.4	148.3	148.1	145.1	145.1	144.6	147.9	
- SA	142.5	142.1	141.3	143.0	143.5	144.0	144.6	144.8	145.0	145.2	145.6	142.0	143.6	142.9	145.3	

All indexes based on the value of spending-related transactions, seasonally adjusted by Westpac, 2019 avg=100. See p9 for more details.

Sources: ABS, Westpac Group

^{*}composite based on transactions in retail categories; seasonal adjustment and rounding may result in small revisions to previously published estimates.



About the Westpac card data indicators

The indicators presented in this report are based on the millions of credit and debit card transactions processed by Westpac every day. Transactions covering over ten million merchants are classified into over 700 categories. These are in turn grouped into higher level aggregates that provide a timely guide to wider economic trends.

The main focus of these indicators is consumer spending. Where possible, we have sought to exclude 'non spending' transactions such as: money transfers; tax payments; loan repayments; charitable donations; and superannuation contributions.

It should also be noted that these indicators will also be affected by shifts between card and non card transactions. This may be a significant factor during the COVID–19 pandemic – health concerns about the use of physical cash are likely seeing higher use of cards, particularly where contact–less transactions are available. Transaction flows also include reversals/refunds which have been a significant phenomenon in areas such as travel.

All transaction data is compiled at a highly aggregated level so that individual customer or merchant data is never revealed.

Index construction

The key metrics used in this report are indexes of spending–related card activity where the base of 100 is average activity in 2019. As an example, if transaction flows are 5% above their average level in 2019, the index read for the period is 105. If flows in a subsequent period are 8% above the average level in 2019, the index read for this period is 108. Growth between the two periods can be calculated simply as the change between the two index reads, i.e. 2.9%.

All measures are adjusted for regular seasonality. Weekly estimates are generated using the US Bureau of Labor's MoveReg weekly seasonal adjustment program. Note that in some cases, high levels of volatility during the COVID period mean it is not possible to produce seasonally adjusted estimates for some historical periods.

Also, note that previous versions of this report used different approaches to seasonal adjustment and measurement more generally. This means Index reads will not be comparable. See the 'About the Westpac card data indicators' sections from earlier reports to view detail.

Classifications

Note that the measures and classifications used for card data and this report do not align completely with those used in official ABS statistics on retail sales and consumer spending. There are a range of differences including around both coverage and classification. As such, the card data should be treated as broadly indicative.

The transaction data is grouped into 29 categories that are then combined into four main as follows:

Discretionary goods: durable goods, clothing and vehicle-related.

Discretionary services: recreation, gambling, professional services, hotels, restaurants and cafes, airlines, car rental, travel agencies and transport.

Essential goods: food, fuel and pharmacies.

Essential services: utilities, education and healthcare.

The report also uses two additional classifications:

Retail/non retail: based on the extent to which categories cover sales that are in scope for the ABS retail survey.

COVID group: based on a classification Westpac developed to assess the impact of the Coronavirus (see here for more). 'Most exposed' is travel, tourism, hospitality and recreational services; 'big ticket' is vehicles and major household items; 'stock-piling' is food, pharmaceuticals and healthcare; 'residual' is all other categories combined.



Corporate directory

Westpac Economics / Australia

Sydney

Level 19, 275 Kent Street Sydney NSW 2000 Australia

E: economics@westpac.com.au

Luci Ellis

Chief Economist Westpac Group E: luci.ellis@westpac.com.au

Matthew Hassan

Head of Australian Macro-Forecasting E: mhassan@westpac.com.au

Elliot Clarke

Head of International Economics E: eclarke@westpac.com.au

Justin Smirk

Senior Economist E: jsmirk@westpac.com.au

Pat Bustamante

Senior Economist

E: pat.bustamante@westpac.com.au

Mantas Vanagas

Senior Economist

E: mantas.vanagas@westpac.com.au

Ryan Wells Economist

E: ryan.wells@westpac.com.au

Illiana Jain

Economist

E: illiana.jain@westpac.com.au

Jameson Coombs

Economist

E: jameson.coombs@westpac.com.au

Neha Sharma

Economist

E: neha.sharma1@westpac.com.au

Westpac Economics / Fiji

Suva

1 Thomson Street Suva, Fiji

Shamal Chand

Senior Economist

E: shamal.chand@westpac.com.au

Westpac Economics / New Zealand

Auckland

Takutai on the Square Level 8, 16 Takutai Square Auckland, New Zealand

E: economics@westpac.co.nz

Kelly Eckhold

Chief Economist NZ

E: kelly.eckhold@westpac.co.nz

Michael Gordon

Senior Economist

E: michael.gordon@westpac.co.nz

Darren Gibbs

Senior Economist

E: darren.gibbs@westpac.co.nz

Satish Ranchhod

Senior Economist

E: satish.ranchhod@westpac.co.nz

Paul Clark

Industry Economist

E: paul.clark@westpac.co.nz

NII DISCLAIMER

©2024 Westpac Banking Corporation ABN 33 007 457 141 (including where acting under any of its Westpac, St George, Bank of Melbourne or BankSA brands, collectively, "Westpac"). References to the "Westpac Group" are to Westpac and its subsidiaries and includes the directors, employees and representatives of Westpac and its subsidiaries.

Things you should know

We respect your privacy: You can view our privacy statement at Westpac.com.au. Each time someone visits our site, data is captured so that we can accurately evaluate the quality of our content and make improvements for you. We may at times use technology to capture data about you to help us to better understand you and your needs, including potentially for the purposes of assessing your individual reading habits and interests to allow us to provide suggestions regarding other reading material which may be suitable for you.

This information, unless specifically indicated otherwise, is under copyright of the Westpac Group. None of the material, nor its contents, nor any copy of it, may be altered in any way, transmitted to, copied of distributed to any other party without the prior written permission of the Westpac Group.

Disclaimer

This information has been prepared by Westpac and is intended for information purposes only. It is not intended to reflect any recommendation or financial advice and investment decisions should not be based on it. This information 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 into a legally binding contract. To the extent that this information contains any general advice, it has been prepared without taking into account your objectives, financial situation or needs and before acting on it you should consider the appropriateness of the 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 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 this information is free from error, none of Westpac or its related entities warrants the accuracy, adequacy or completeness of this information, or otherwise endorses it in any way. Except where contrary to law, Westpac Group intend by this notice to exclude liability for this information. This information is subject to change without notice and none of Westpac or its related entities is under any obligation to update this information or correct any inaccuracy which may become apparent at a later date. This information may contain or incorporate by reference forward-looking statements. The words "believe", "anticipate", "expect", "intend", "plan", "predict", "continue", "assume", "positioned", "may", "will", "should", "shall", "risk" and other similar expressions that are predictions of or indicate future events and future trends identify forward-looking statements. These forward-looking statements include all matters that are not historical facts. Past performance is not a reliable indicator of future performance, nor are forecasts of future performance. Whilst every effort has been taken to ensure that the assumptions on which any 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 any forecasts.

Conflicts of Interest: In the normal course of offering banking products and services to its clients, the Westpac Group may act in several capacities (including issuer, market maker, underwriter, distributor, swap counterparty and calculation agent) simultaneously with respect to a financial instrument,

giving rise to potential conflicts of interest which may impact the performance of a financial instrument. The Westpac Group may at any time transact or hold a position (including hedging and trading positions) for its own account or the account of a client in any financial instrument which may impact the performance of that financial instrument.

Author(s) disclaimer and declaration: The author(s) confirms that no part of his/her compensation was. is, or will be, directly or indirectly, related to any views or (if applicable) recommendations expressed in this material. The author(s) also confirms that this material accurately reflects his/her personal views about the financial products, companies or issuers (if applicable) and is based on sources reasonably believed to be reliable and accurate.

Further important information regarding sustainability-related content: This material may contain statements relating to environmental, social and governance (ESG) topics. These are subject to known and unknown risks, and there are significant uncertainties, limitations, risks and assumptions in the metrics, modelling, data, scenarios, reporting and analysis on which the statements rely. In particular, these areas are rapidly evolving and maturing, and there are variations in approaches and common standards and practice, as well as uncertainty around future related policy and legislation. Some material may include information derived from publicly available sources that have not been independently verified. No representation or warranty is made as to the accuracy, completeness or reliability of the information. There is a risk that the analysis, estimates, judgements, assumptions, views, models, scenarios or projections used may turn out to be incorrect. These risks may cause actual outcomes to differ materially from those expressed or implied. The ESG-related statements in this material do not constitute advice, nor are they guarantees or predictions of future performance, and Westpac gives no representation, warranty or assurance (including as to the quality, accuracy or

completeness of the statements). You should seek your own independent advice.

Additional country disclosures:

Australia: Westpac holds an Australian Financial Services Licence (No. 233714). You can access Westpac's Financial Services Guide here or request a copy from your Westpac point of contact. To the extent that this information contains any general advice, it has been prepared without taking into account your objectives, financial situation or needs and before acting on it you should consider the appropriateness of the advice.

New Zealand: In New Zealand, products and services are provided by either Westpac (NZ division) or Westpac New Zealand Limited (company number 1763882), the New Zealand incorporated subsidiary of Westpac ("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. WNZL is not an authorised deposit-taking institution for the purposes of Australian prudential standards. The current disclosure statements for the New Zealand branch of Westpac and WNZL can be obtained at the internet address www.westpac.co.nz.

Singapore: 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 of this material in Singapore 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.

U.S: Westpac operates in the United States of America as a federally licensed branch, regulated

Disclaimer continues overleaf

DISCLAIMER

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. The services and products referenced above are not insured by the Federal Deposit Insurance Corporation ("FDIC"). 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. Transactions by U.S. customers of any securities referenced herein should be effected through WCM.

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. 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 be 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 of WCM or any other U.S. broker-dealer 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.

UK and EU: The London branch of Westpac is authorised in the United Kingdom by the Prudential Regulation Authority (PRA) and is subject to regulation by the Financial Conduct Authority (FCA) and limited regulation by the PRA (Financial Services Register number: 124586). The London branch of Westpac is registered at Companies House as a branch established in the United Kingdom (Branch No. BR000106). Details about the extent of the regulation of Westpac's London branch by the PRA are available from us on request.

Westpac Europe GmbH ("WEG") is authorised in Germany by the Federal Financial Supervision Authority ('BaFin') and subject to its regulation. WEG's supervisory authorities are BaFin and the German Federal Bank ('Deutsche Bundesbank'). WEG is registered with the commercial register ('Handelsregister') of the local court of Frankfurt am Main under registration number HRB 118483. In accordance with APRA's Prudential Standard 222 'Association with Related Entities', Westpac does not stand behind WEG other than as provided for in certain legal agreements (a risk transfer, subparticipation and collateral agreement) between Westpac and WEG and obligations of WEG do not represent liabilities of Westpac.

This communication is not intended for distribution to, or use by any person or entity in any jurisdiction or country where such distribution or use would be contrary to local law or regulation. This

communication is not being made to or distributed to, and must not be passed on to, the general public in the United Kingdom. Rather, this communication is being made only to and is directed at (a) those persons falling within the definition of Investment Professionals (set out in Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (the "Order")); (b) those persons falling within the definition of high net worth companies, unincorporated associations etc. (set out in Article 49(2) of the Order; (c) other persons to whom it may lawfully be communicated in accordance with the Order or (d) any persons to whom it may otherwise lawfully be made (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. 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". Westpac expressly prohibits you from passing on the information in this communication to any third party.

This communication contains general commentary, research, and market colour. The communication does not constitute investment advice. The material may contain an 'investment recommendation' and/ or 'information recommending or suggesting an investment', both as defined in Regulation (EU) No 596/2014 (including as applicable in the United Kingdom) ("MAR"). In accordance with the relevant provisions of MAR, reasonable care has been taken to ensure that the material has been objectively presented and that interests or conflicts of interest of the sender concerning the financial instruments to which that information relates have been disclosed.

Investment recommendations must be read alongside the specific disclosure which accompanies them and the general disclosure which can be found here. Such disclosure fulfils certain additional information requirements of MAR and associated delegated legislation and by accepting this communication you

acknowledge that you are aware of the existence of such additional disclosure and its contents.

To the extent this communication comprises an investment recommendation it is classified as non-independent research. It has not been prepared in accordance with legal requirements designed to promote the independence of investment research and therefore constitutes a marketing communication. Further, this communication is not subject to any prohibition on dealing ahead of the dissemination of investment research.

Past performance is not a reliable indicator of future performance. The forecasts given above 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 results ultimately achieved may differ substantially from these forecasts.

WESTPAC ECONOMICS