

ECONOMIC IMPACT OF THE CORONAVIRUS PANDEMIC

4TH DECEMBER 2021

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What's new?

The world

- ❑ There were 4.1mn new cases this week, the seventh consecutive increase ([slide 4](#)), entirely accounted for by Europe, the US and Africa ([slide 5](#)), with potential risks posed by the new 'omicron variant' again prompting heightened risk aversion in financial markets ([slide 40](#))
- ❑ The OECD's latest Economic Outlook sees the global economic recovery as "losing momentum" and "becoming imbalanced", with the "main risk" that "inflation continues to surprise to the upside", forcing central banks to "tighten monetary policy earlier and to a greater extent than projected" ([slides 26-27](#))
- ❑ November purchasing managers' indices point to ongoing strength in both manufacturing and services sectors in advanced economies, continued softness in China's manufacturing sector but a rebound in manufacturing in SE Asia ([slides 41 and 50](#))
- ❑ US non-farm payrolls increased by a smaller-than-expected 210K (0.1%) in November – although as measured by the household survey, employment rose by 1.1mn (0.7%), pushing the unemployment rate down 0.4 pc pts to 4.2%, 0.7 pc pt above the pre-pandemic low in February last year ([slide 65](#))
- ❑ Canada's unemployment rate fell 0.7 pc pt to 6.0% in November ([slide 76](#)), while in Japan the unemployment rate fell 0.1 pc pt to 2.7% in October despite a third successive fall in employment ([slide 48](#)) and in the euro area the unemployment rate dropped 0.1 pc pt to 7.3%, 0.2 pc pt above its March 2020 low ([slide 77](#))
- ❑ India's economy rebounded by 12.7% in Q3 from an 11.6% contraction in Q2 to be 0.5% ahead of its pre-pandemic peak ([slide 49](#))

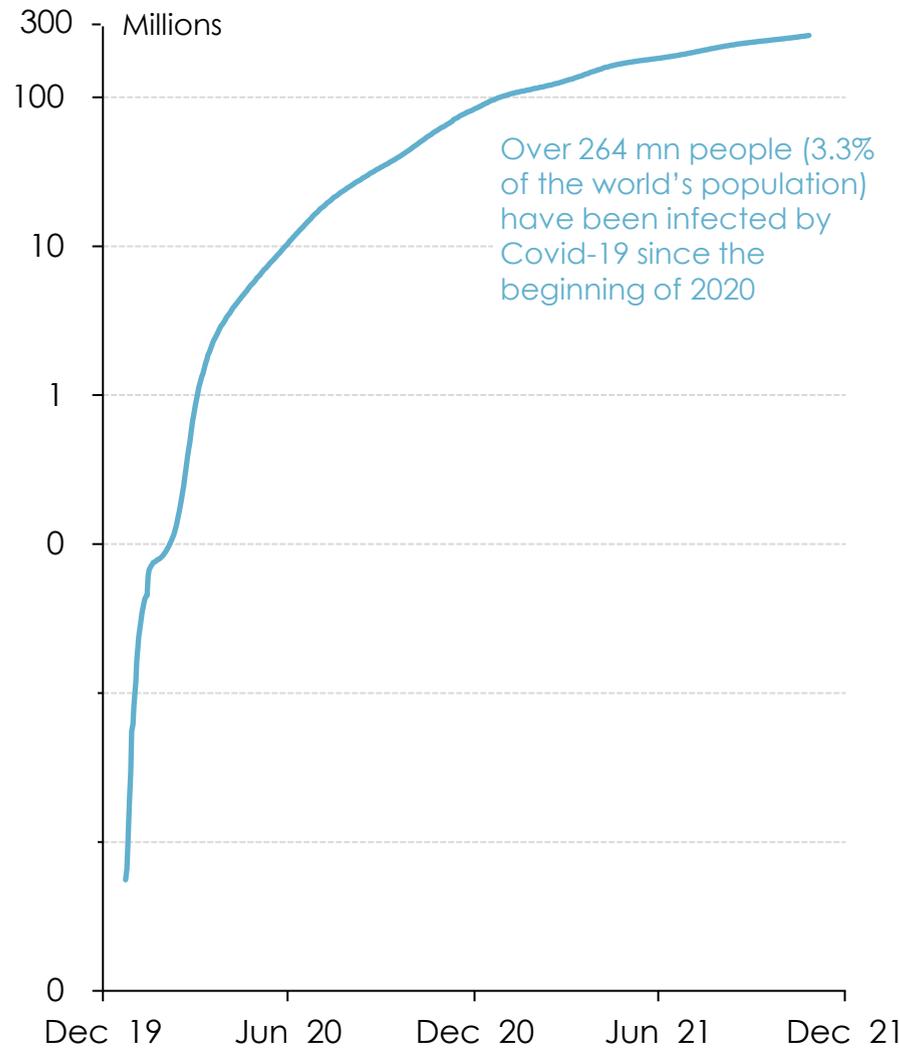
Australia and New Zealand

- ❑ Australia recorded just over 9,615 new infections this week, marginally less than last week ([slide 14](#)) reflecting an ongoing high rate of new cases in Victoria (despite a similarly high vaccination rate to NSW) and outbreaks in remote areas of the Northern Territory ([slide 15](#))
- ❑ Australia's economy shrank by a smaller-than-expected 1.9% in Q3 – though that was still the third largest quarterly decline on record going back to 1959 ([slide 83](#))
- ❑ The contraction was mainly driven by a 4.8% decline in household consumption spending, accompanied by a 1.1% fall in business investment – and would have been larger but for a 3.3% increase in public sector spending ([slide 86](#))
- ❑ The decline in household spending was caused by the lockdowns enforced in NSW throughout the entire quarter, and in Victoria and the ACT for most of it ([slide 87](#))
- ❑ Residential property prices rose another 1.3% in November to be 21% above their pre-pandemic level – although the rate of increases has been slowing steadily since June ([slides 112-113](#))
- ❑ Lending to property investors rose another 1.1% in October, the 12th consecutive increase, while lending to owner-occupiers fell 4.0%, the fourth fall in a row ([slide 114](#))
- ❑ Residential building approvals fell 12.9% in October, the sixth decline in the past seven months, to be below 200K (at an annual rate) for the first time since September last year ([slide 115](#))
- ❑ Australia's goods and services trade surplus narrowed by \$600mn to \$11.2bn in October, largely due to lower iron ore prices ([slide 118](#))
- ❑ Australia reregistered another record current account surplus of \$23.9bn (4.4% of GDP) – though that's likely to have been the peak ([slide 124](#))

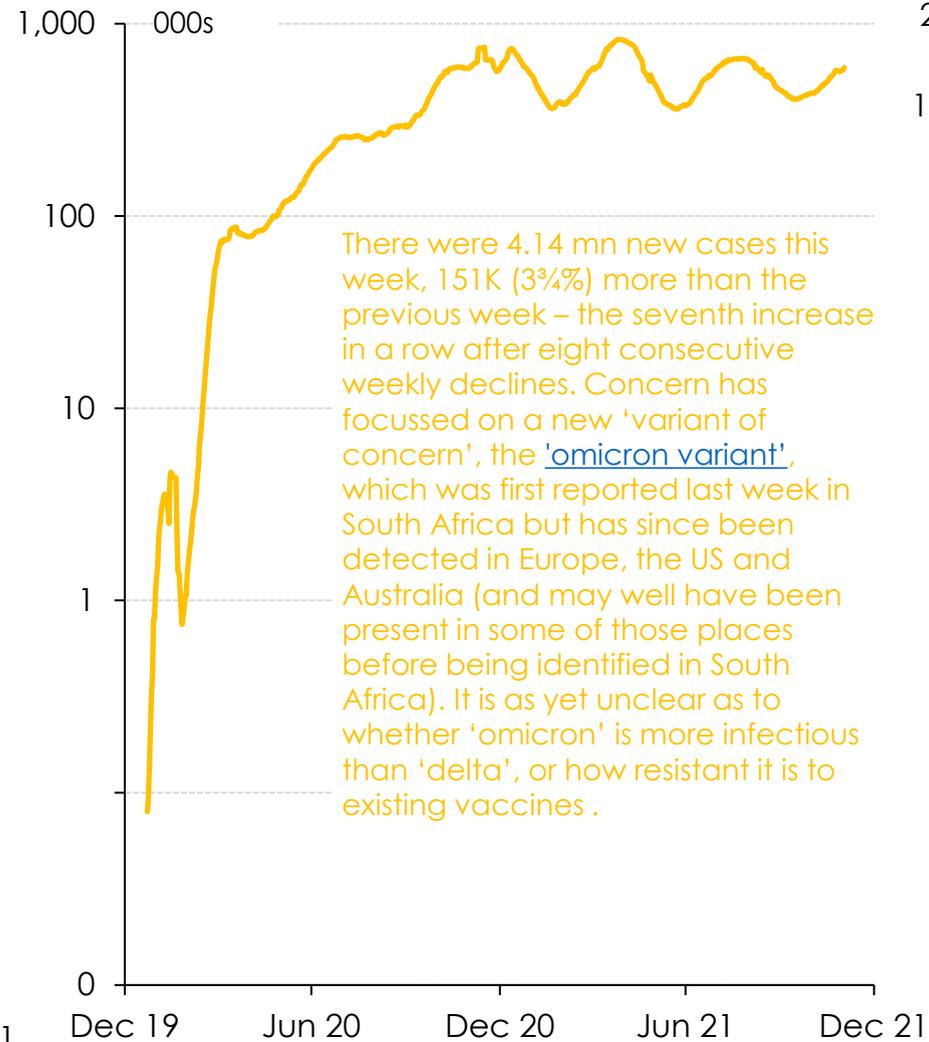
The virus

New Covid-19 case numbers have been rising for the past six weeks, now including the 'omicron variant', but the death toll has remained steady

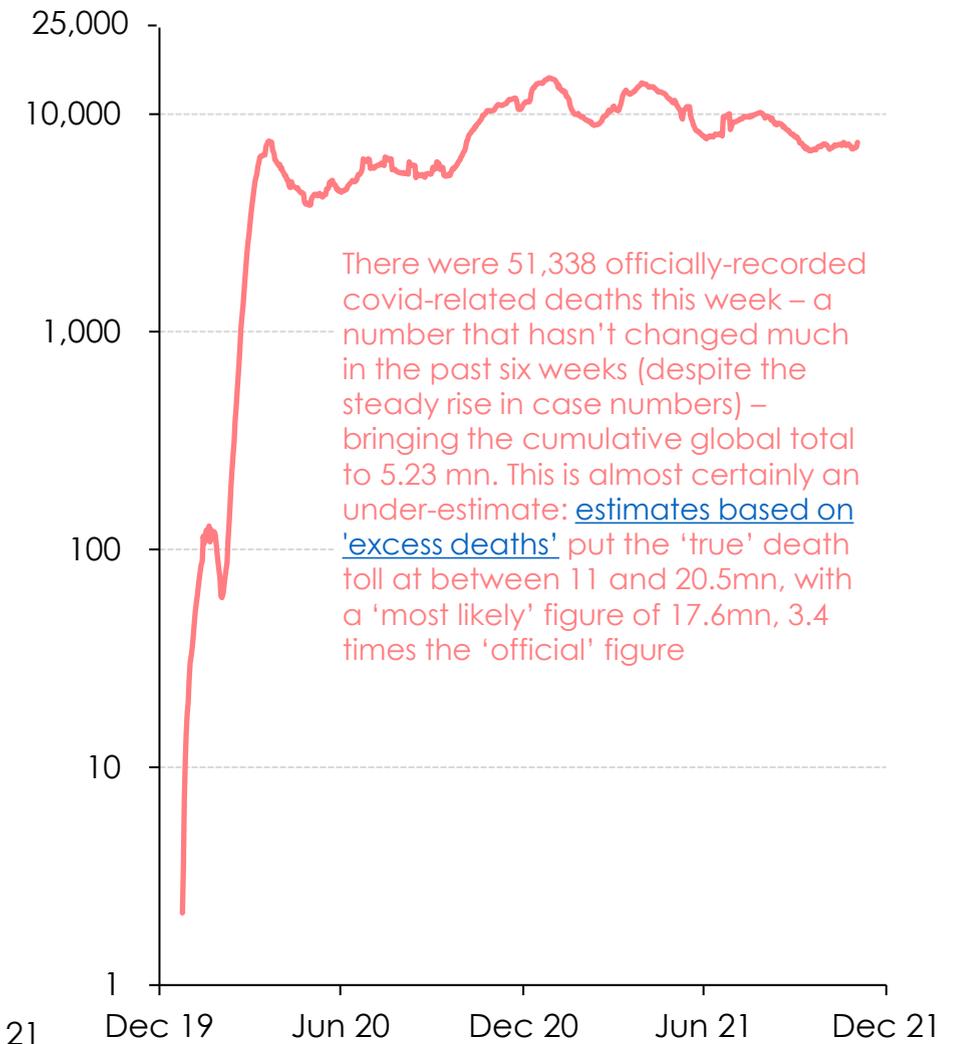
Cumulative confirmed cases – global total



New confirmed cases – global total



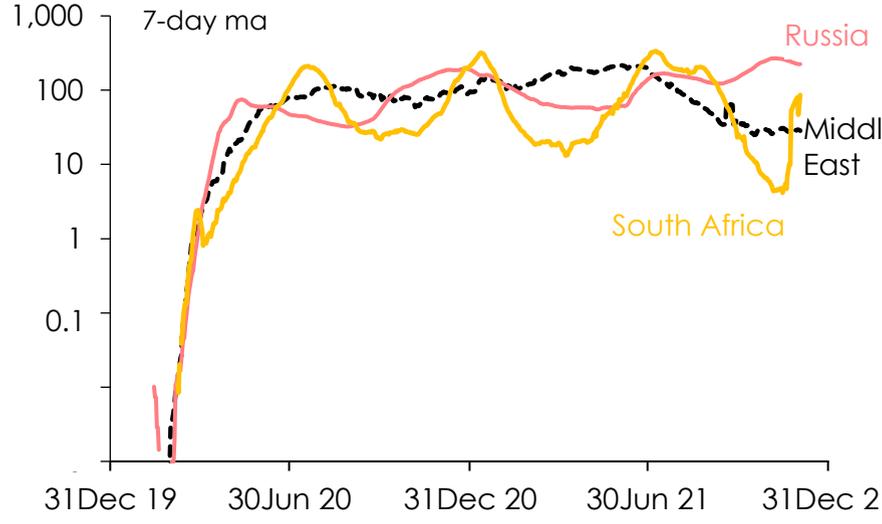
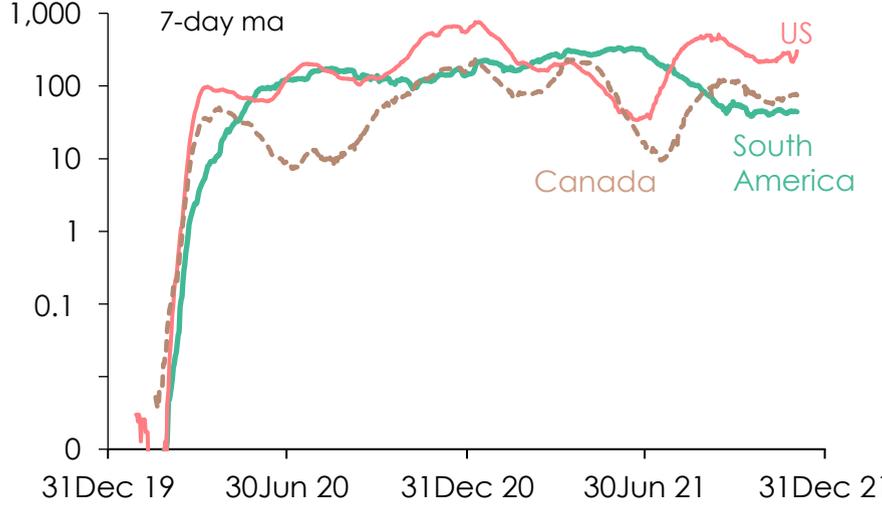
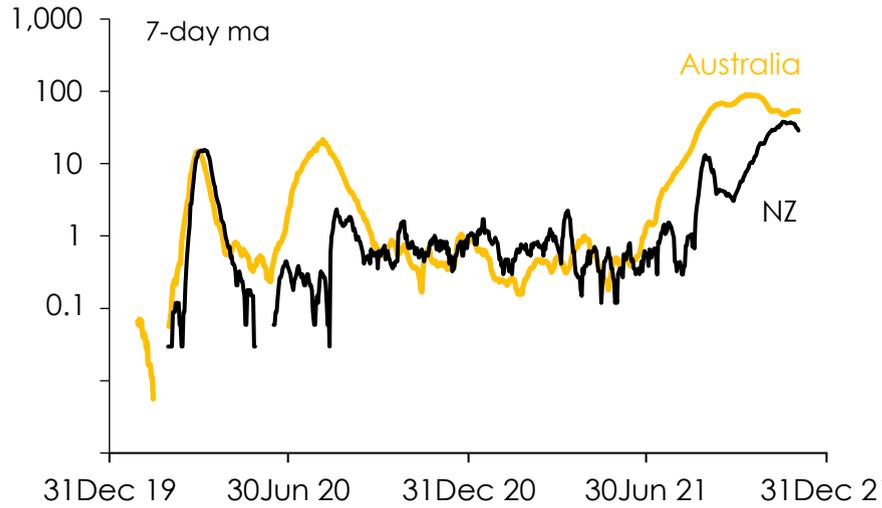
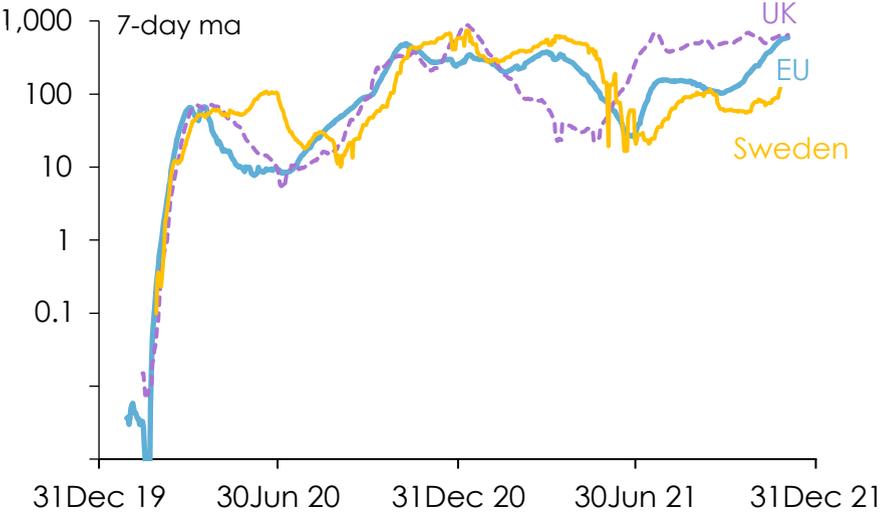
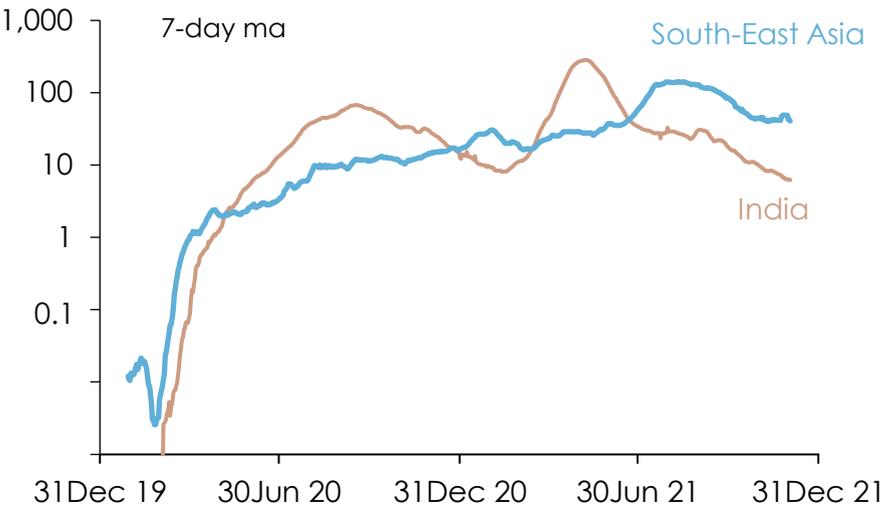
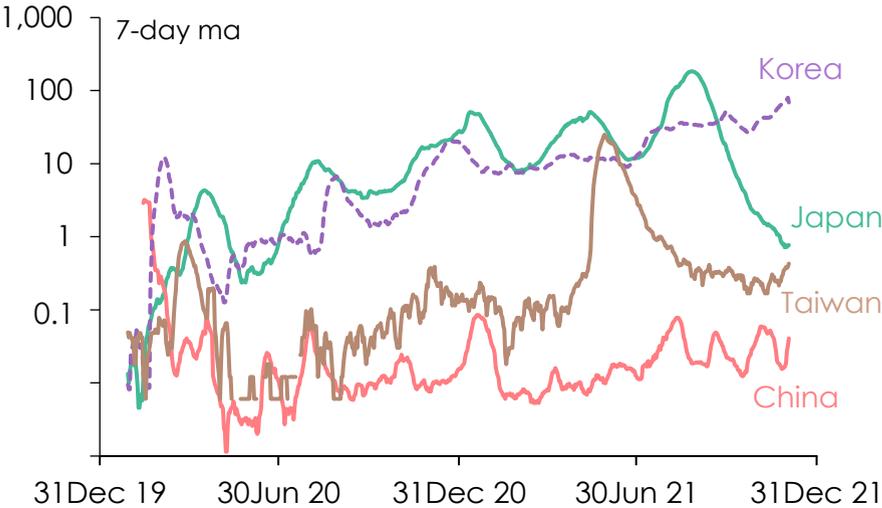
New deaths – global total



Note: All charts are on logarithmic scales. Data up to 2nd December. Source: University of Oxford, [Our World in Data](#). [Return to "What's New"](#).

The increase in case numbers this week was entirely in Europe, the US and Africa: case numbers fell in Asia, South America and the Middle East

Daily new cases per million population – major countries and regions

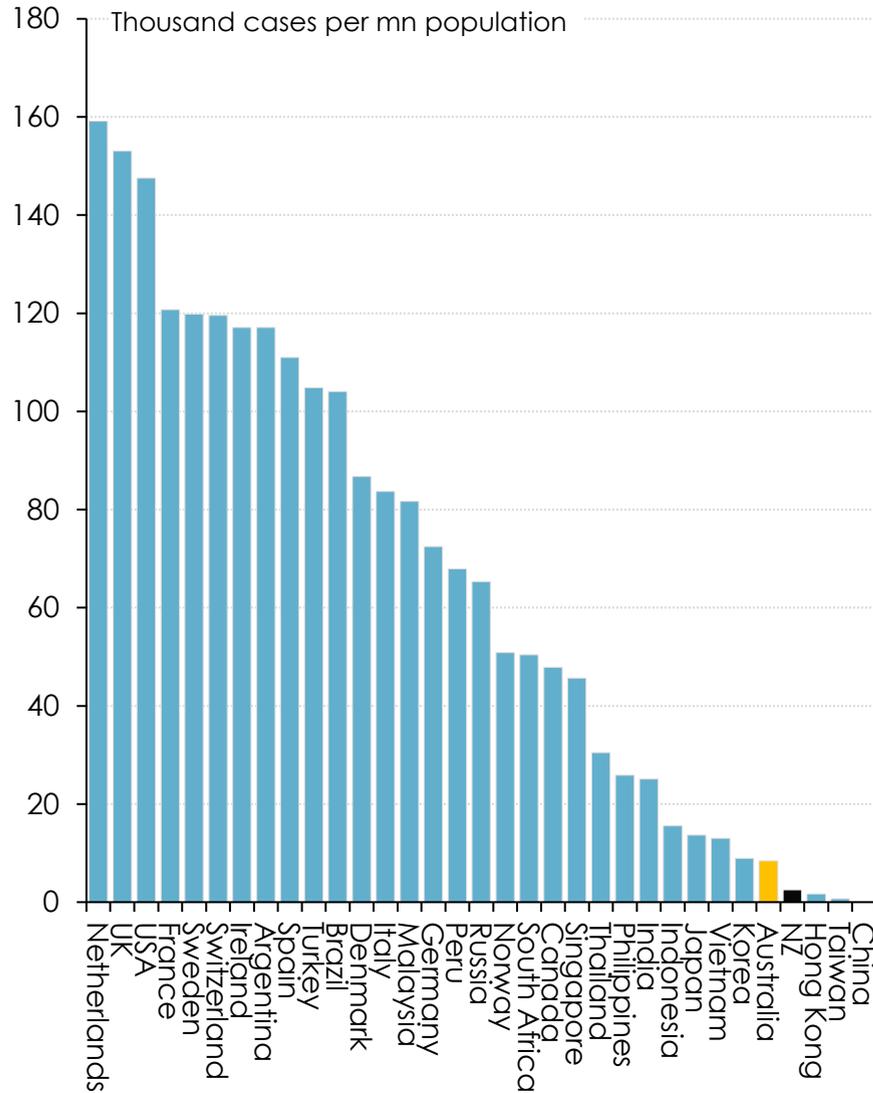


Europe accounted for 55% of the world's new cases this week, and the US for 17% - with increases of 6½% and 20%, respectively – while case numbers in Africa rose by 35% (though 'only' 10% of the world total)

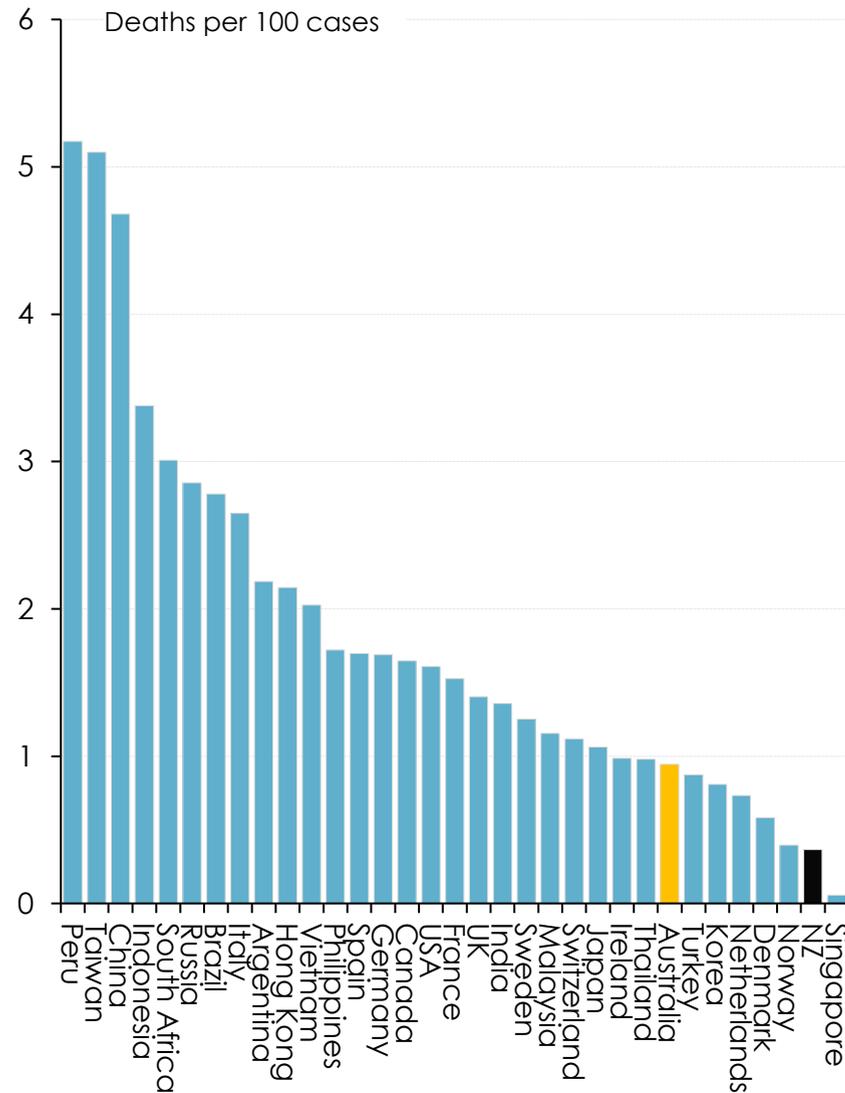
Note: All charts are on logarithmic scales. Data up to 2nd December. Source: University of Oxford, [Our World in Data](#); Corinna. [Return to "What's New"](#).

The highest cumulative infection and death rates (since the onset of the pandemic) have been in Europe, South and North America

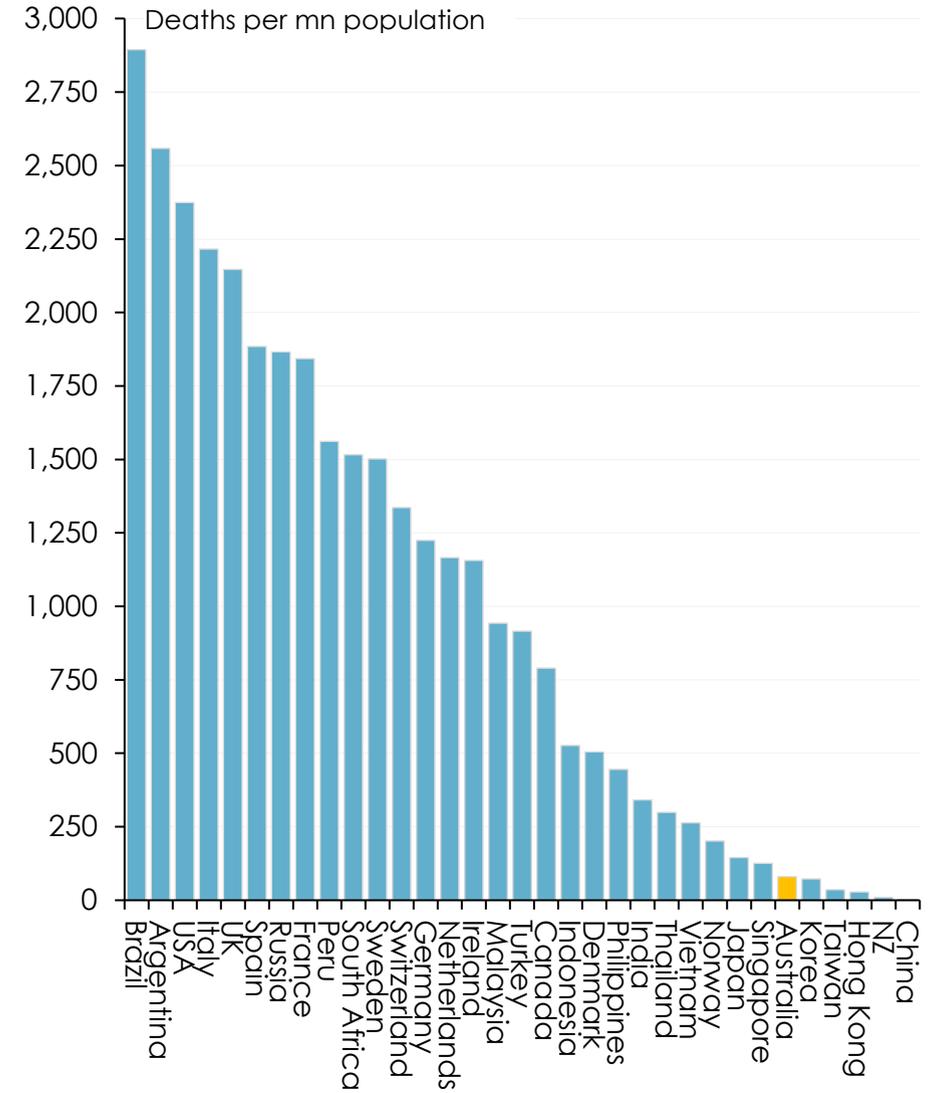
Apparent infection rate



Apparent fatality rate



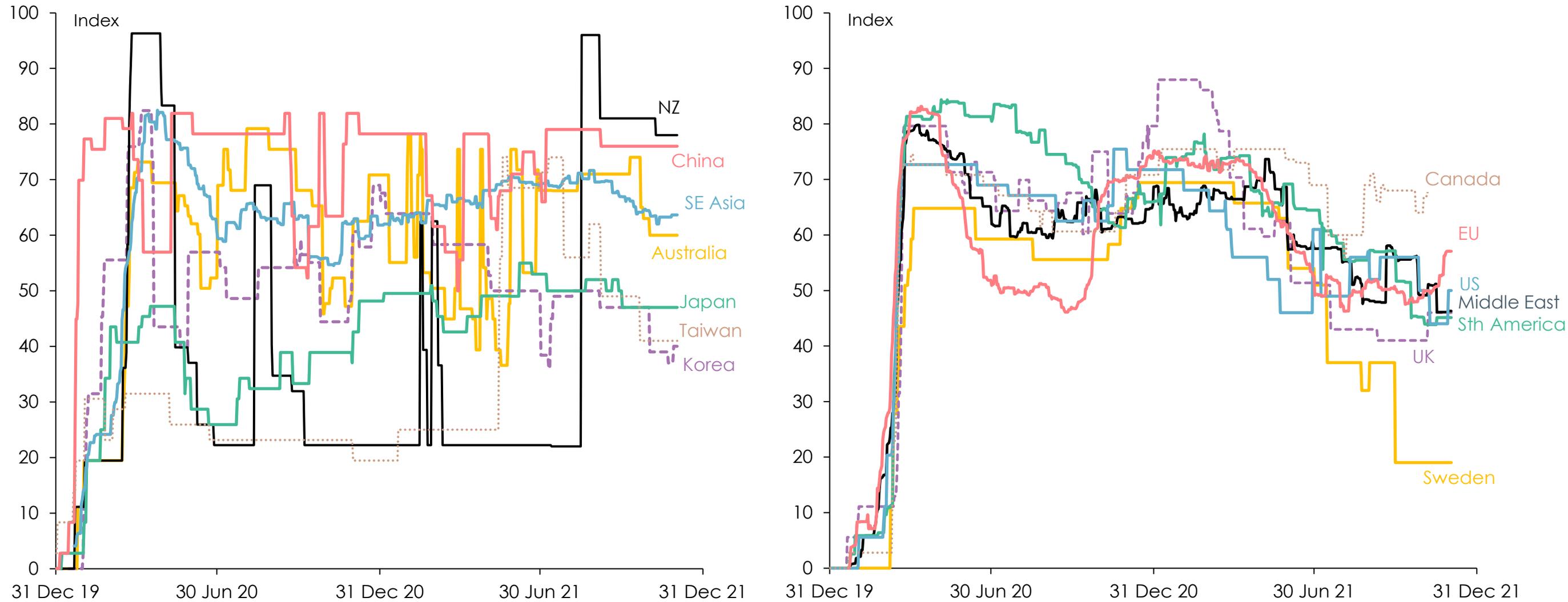
Death rate



Note: Data up to 2nd December. Sources: University of Oxford, [Our World in Data](#); Corinna. [Return to "What's New"](#).

Restrictions have been further tightened in Europe, and to a lesser extent in the US, in response to concerns about the 'omicron variant'

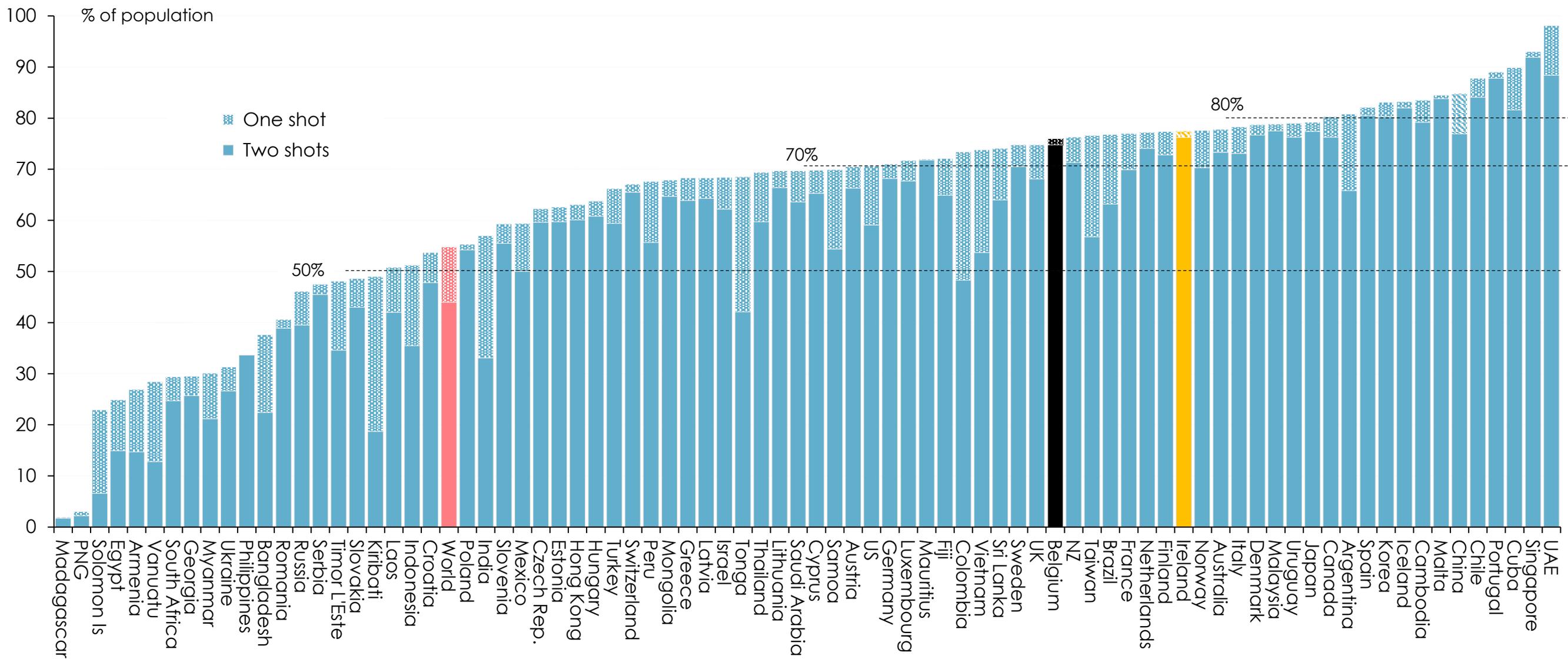
Timing and severity of government restrictions on movement and gathering of people



The Oxford COVID-19 Government Response Tracker collects publicly available information on 11 indicators of government response including school & workplace closures, public events cancellations, restrictions on public gatherings, stay at home requirements, public transport closures, domestic & international travel restrictions, public information campaigns, testing and contact tracing. Source: [Blavatnik School of Government, Oxford University](#). Series for South-East Asia, the EU, South America and the Middle East are population-weighted averages for individual constituent countries. Data up to 2nd December. [Return to "What's New"](#).

26 countries have now fully vaccinated more than 70% of their population, another 9 are close to that threshold, and 21 more are over 50%

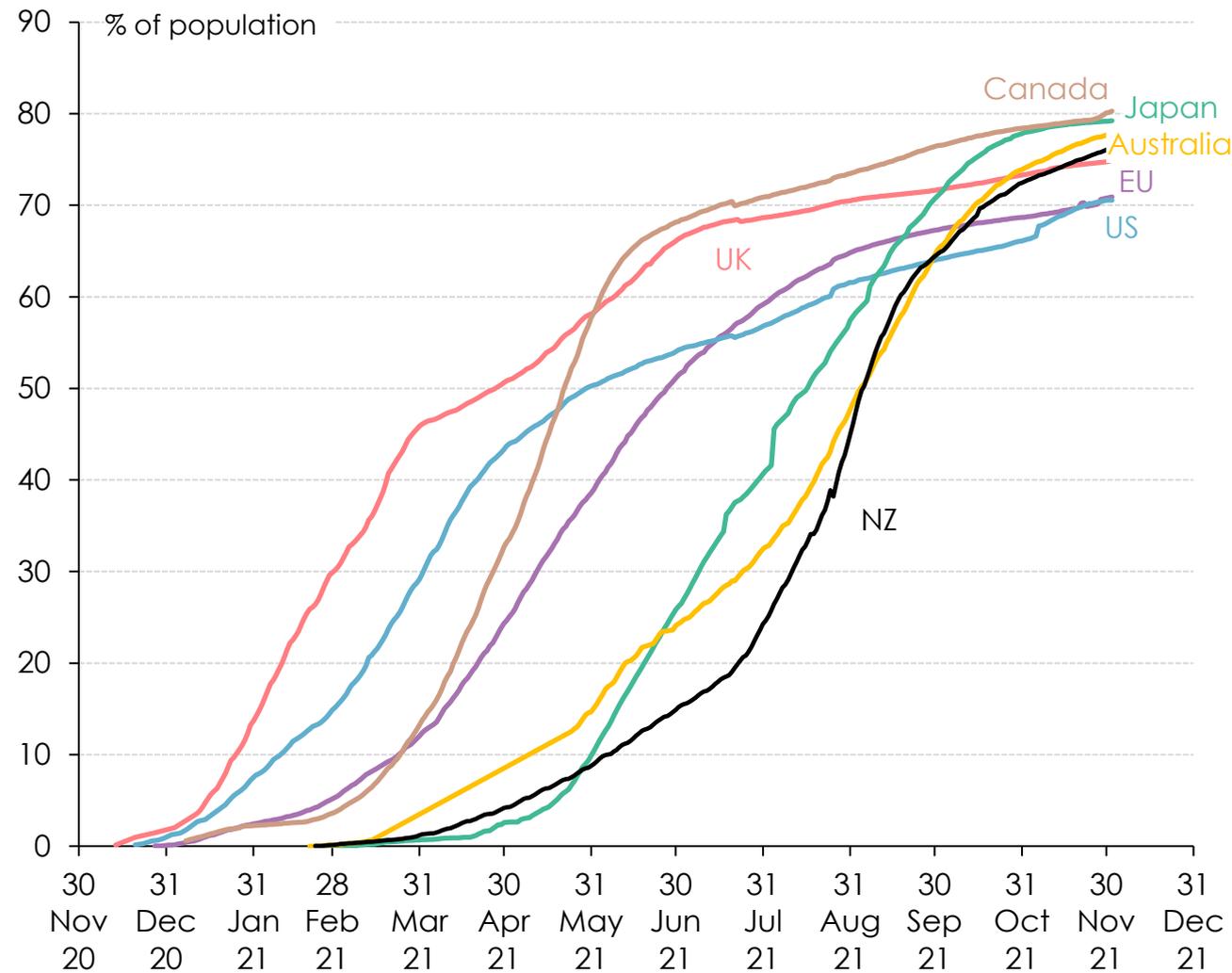
Percentage of population who have had at least one vaccination shot as at 30th November-1st December



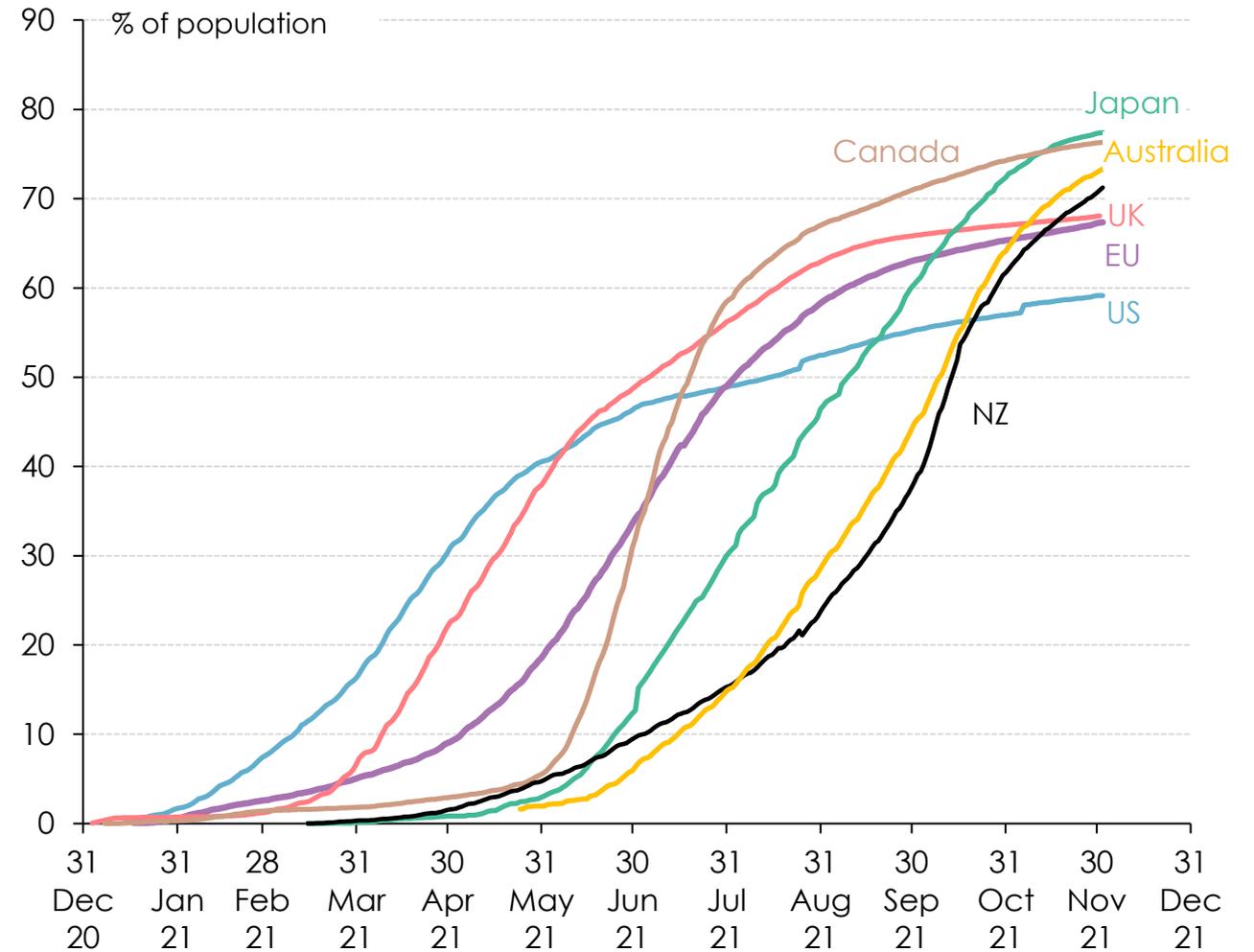
Note: Data for Singapore are as at 5th November; Portugal, 5th November; China, 19th November; Vanuatu, 22nd November; Laos and Mauritius, 23rd November; Myanmar, 27th November; Luxembourg, 28th November; and Egypt and Madagascar, 29th November.
 Source: Our World in Data, [Coronavirus \(COVID-19\) Vaccinations](#). [Return to "What's New"](#).

Japan, Australia and New Zealand have now fully vaccinated a higher proportion of their populations than the UK, the EU or the US

Percentage of major 'advanced' economies' populations who have had one shot



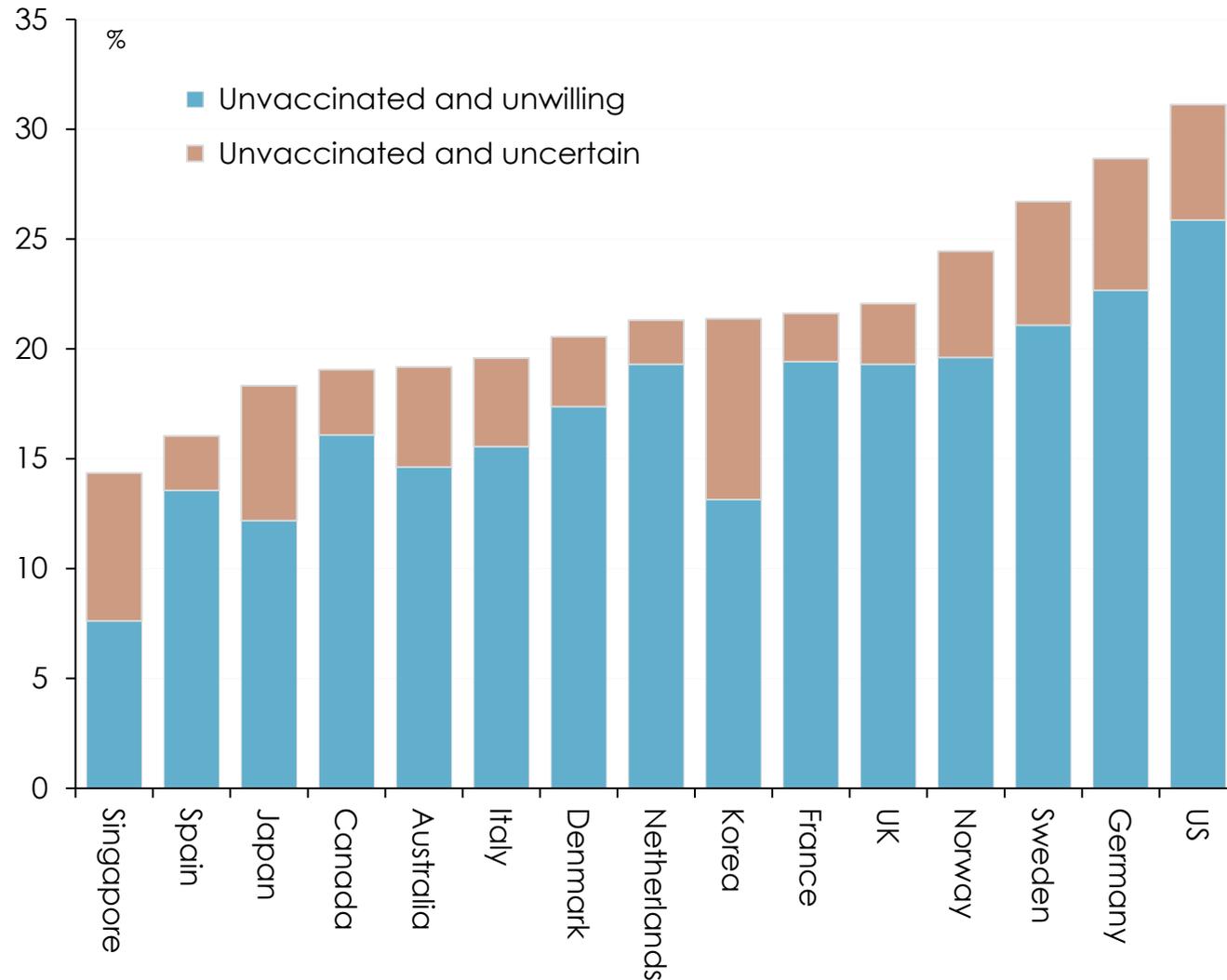
Percentage of major 'advanced' economies' populations who have had two shots



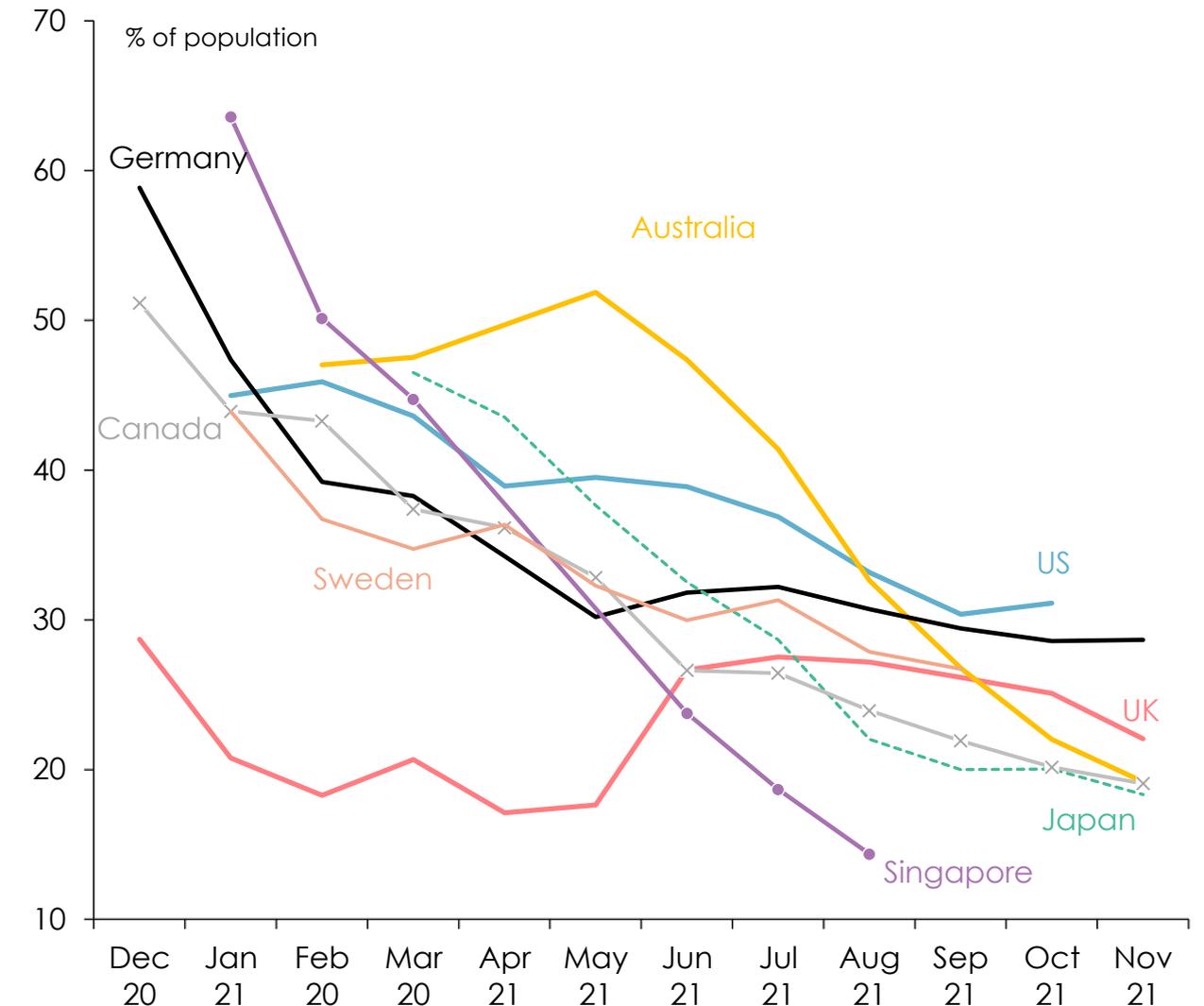
Note: Data up to 2nd December, except for UK, 1st December. Source: [Our World in Data](#); [Coronavirus \(COVID-19\) Vaccinations](#). [Return to "What's New"](#).

Vaccine hesitancy is now higher in the US and (surprisingly) in Germany than in other 'advanced' economies – and has fallen sharply in Australia

Covid-19 vaccine hesitancy, selected 'advanced' economies, November 2021



Percentage of populations unvaccinated and unwilling or uncertain about getting vaccinated

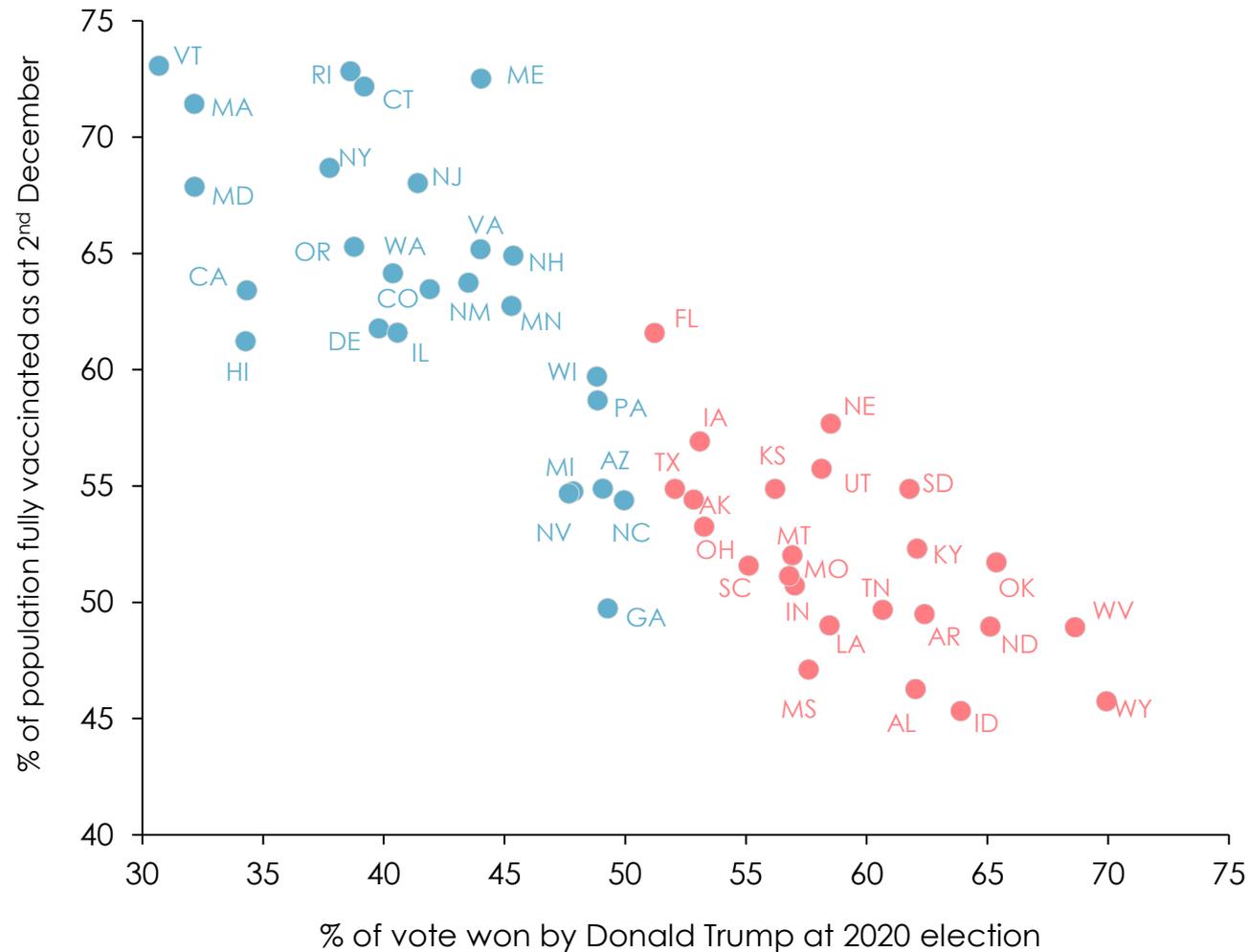


Note: Data for Singapore and Norway are for August; data for Korea and Sweden are for September; data for the US are for October.

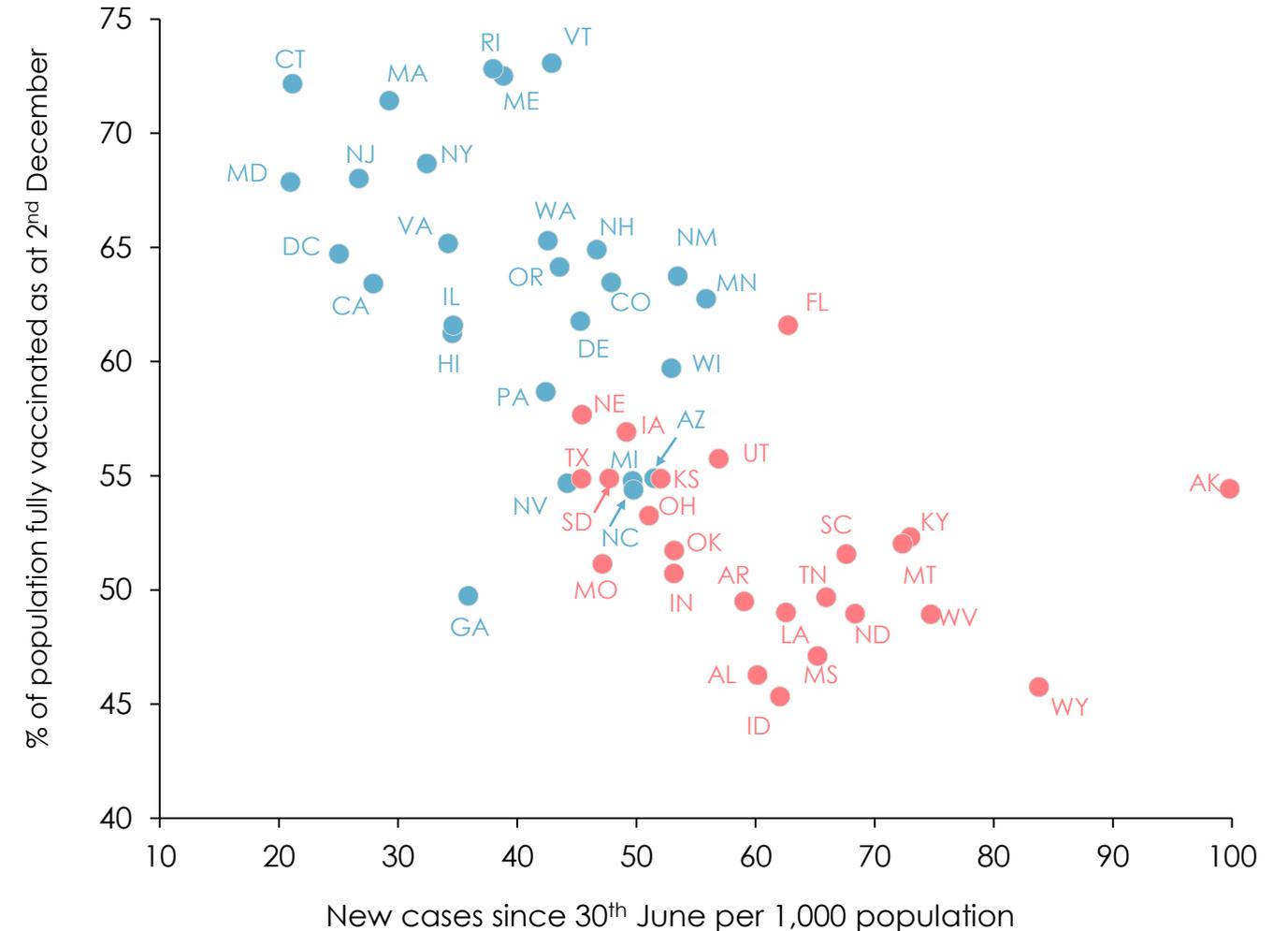
Source: Imperial College London and YouGov, [Covid 19 Behaviour Tracker Data Hub](#). [Return to "What's New"](#).

In the US there's a strong correlation between voting patterns and vaccine hesitancy, and between vaccination rates and infection rates

Vaccination rates vs Trump vote at 2020 elections, by state



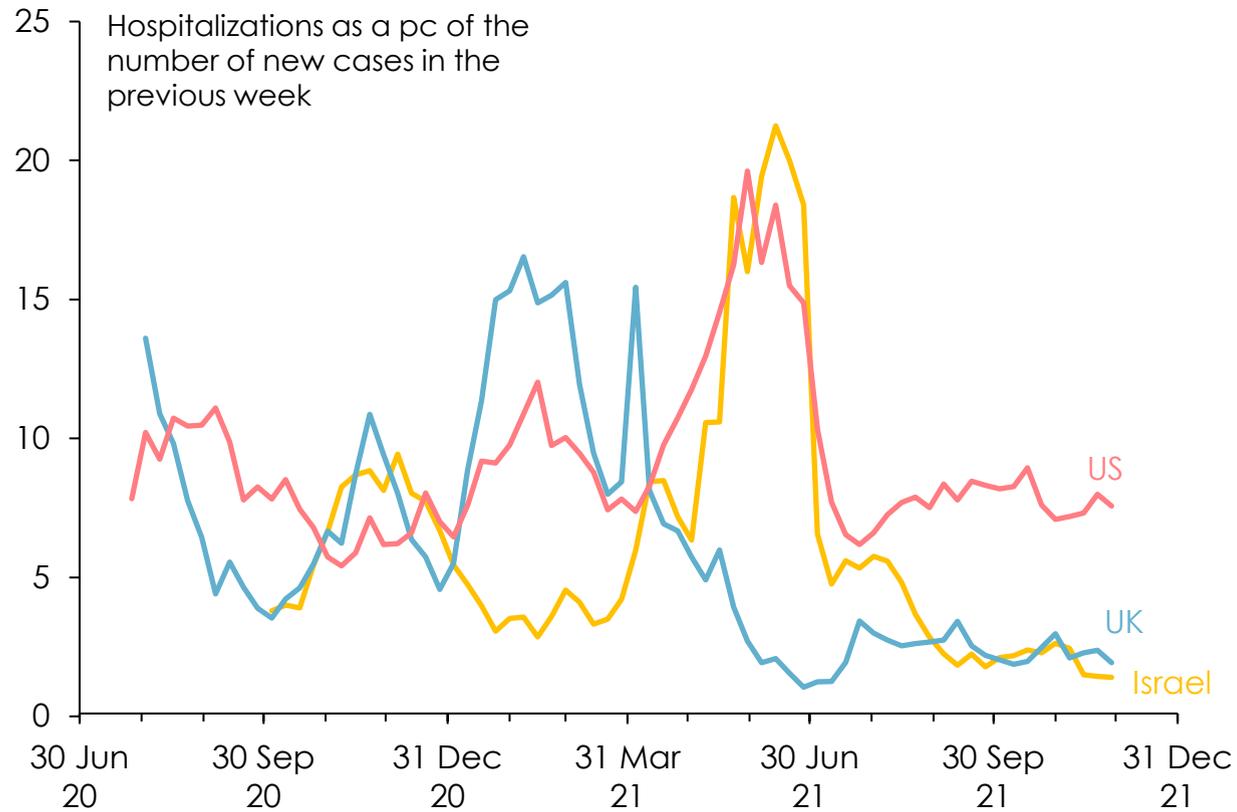
Vaccination rates vs infection rates since 30th June, by state



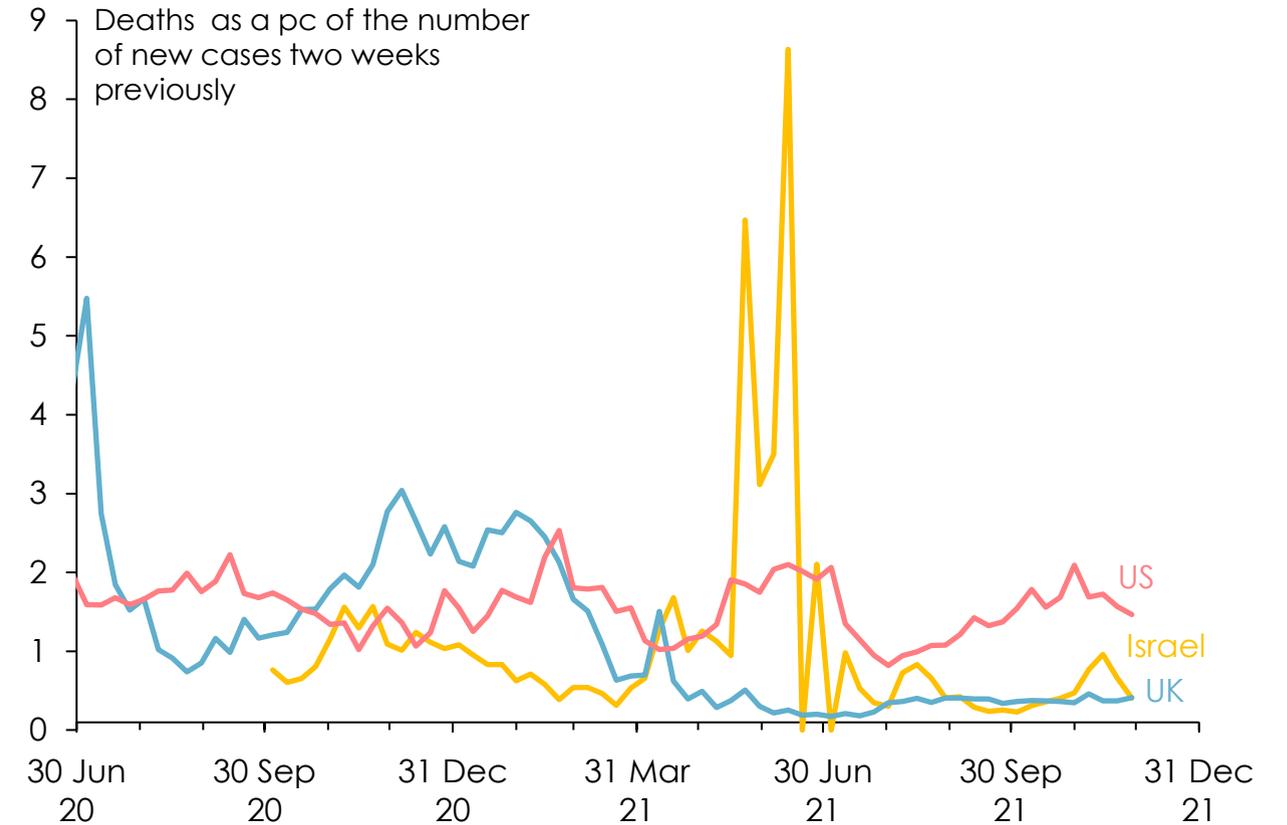
Note: Data as at 2nd December. Sources: [The Cook Political Report](#); [Our World in Data](#); [USA Facts](#); Corinna. [Return to "What's New"](#).

Although vaccination appears not to prevent the 'delta variant' from spreading, it does appear to reduce hospitalization and death rates

Hospitalization rates



Fatality rates

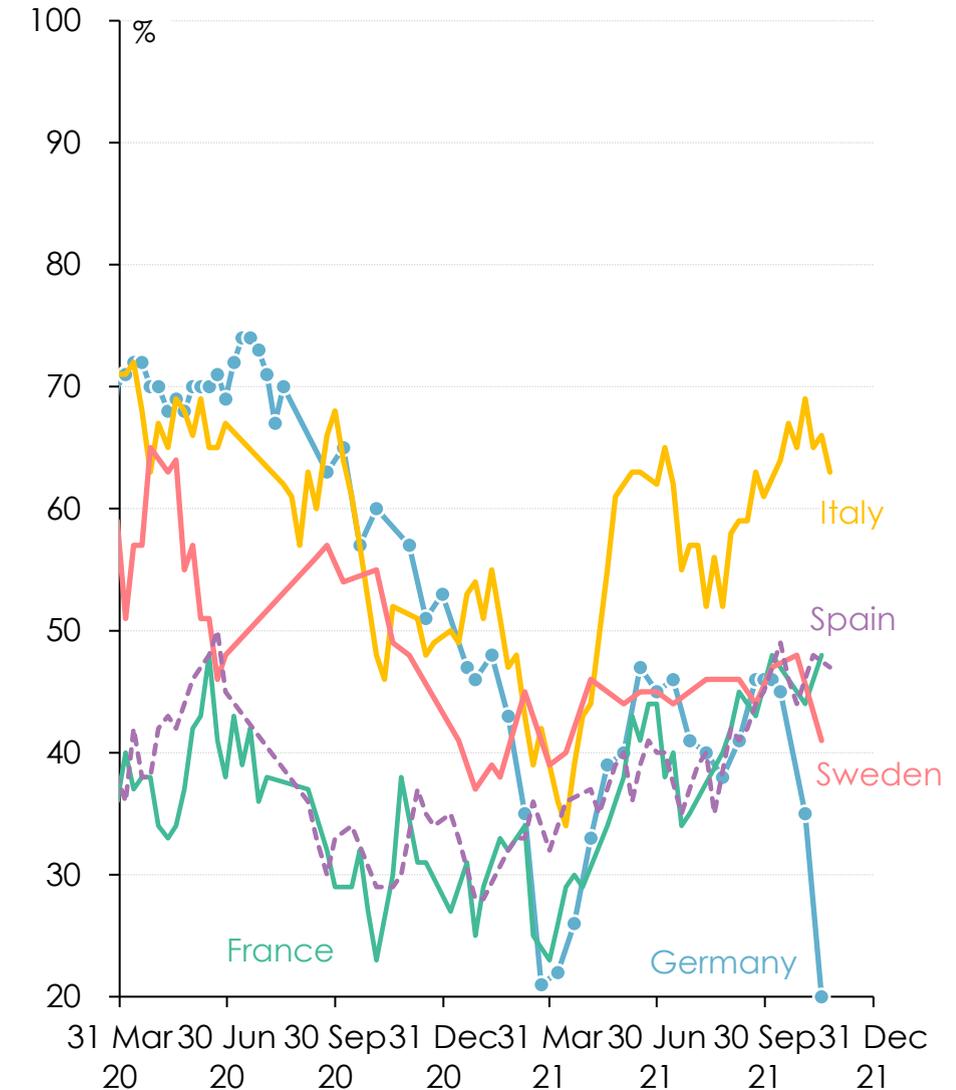
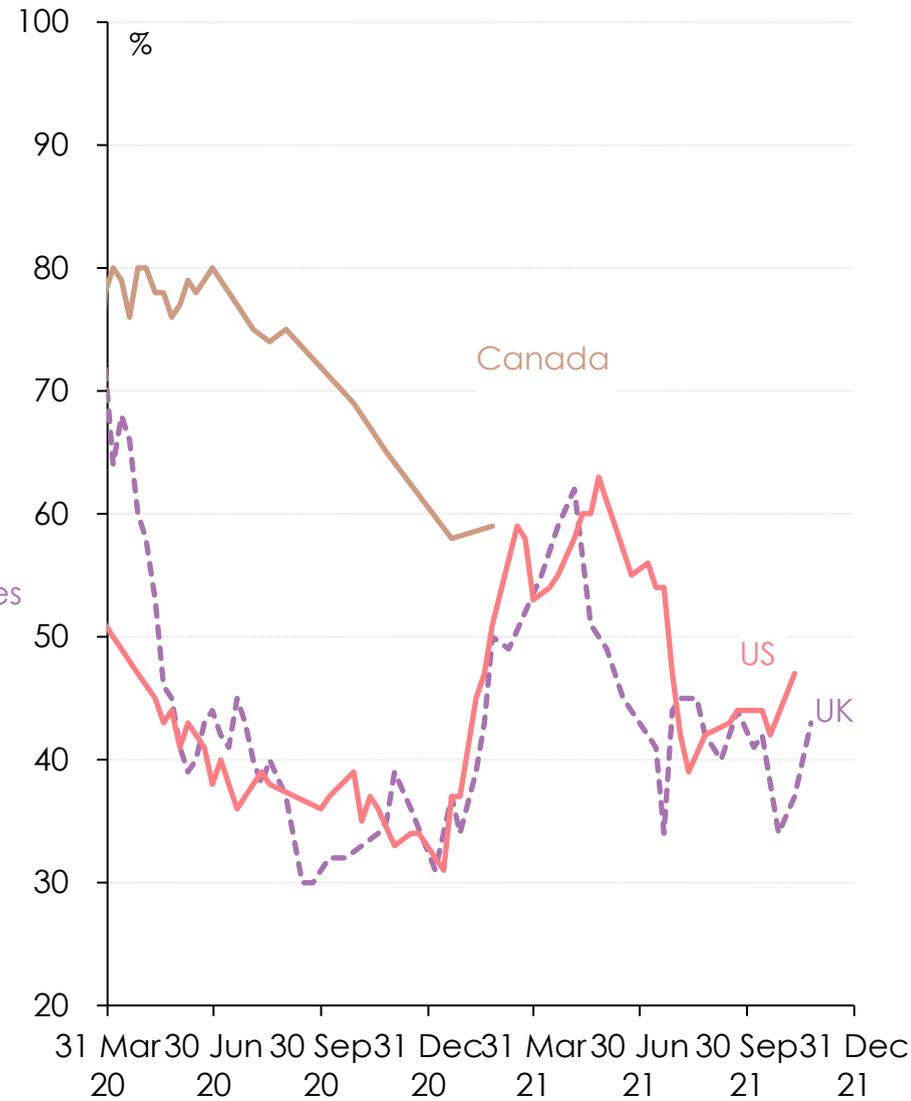
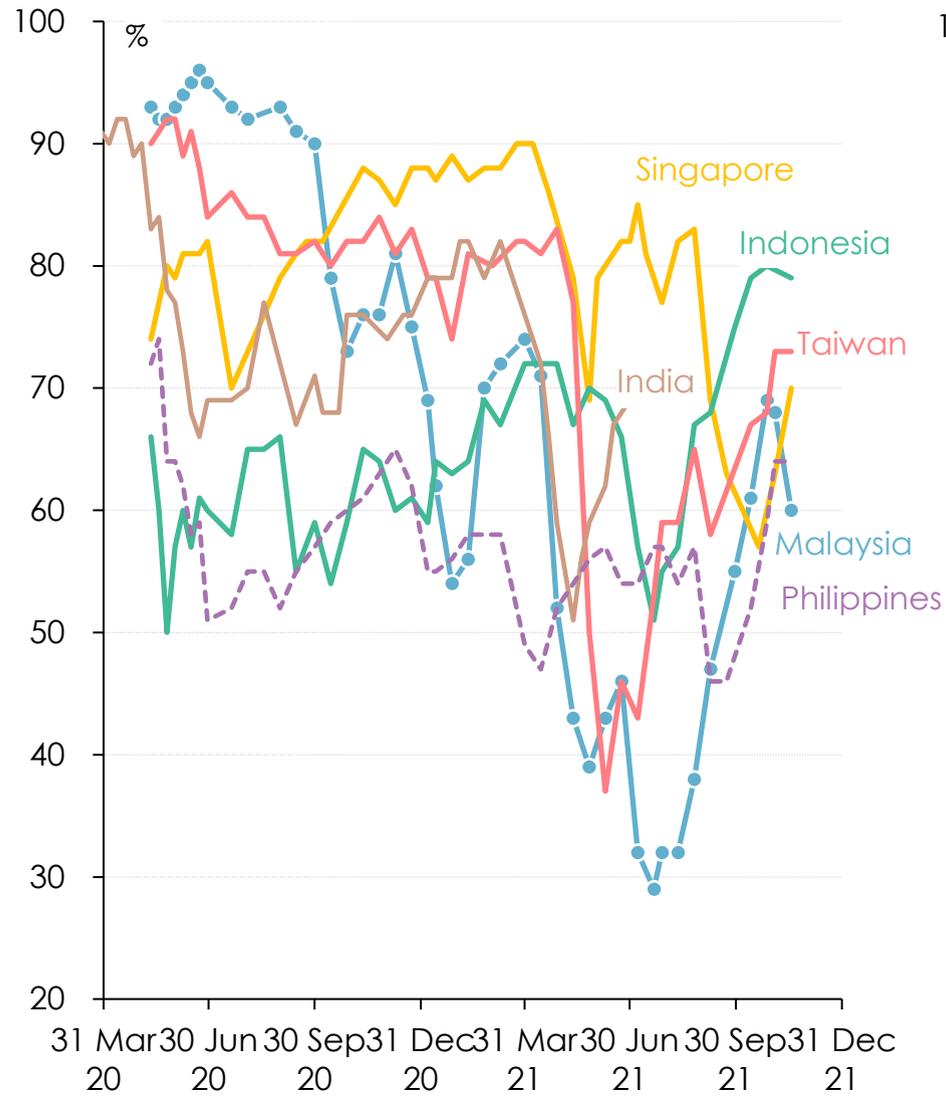


- ❑ Israel, the UK and the US all experienced a surge in the number of 'delta variant' cases after 'opening up'
- ❑ In the US, the increase in cases is concentrated in states and counties where vaccination rates are well below the national average (see previous slide)
- ❑ In Israel, the UK and those US states with above-average vaccination rates, hospitalization and death rates from Covid-19 as the delta variant has spread have been much lower than they were in 2020

Note: Data up to 30th November. Source: [Our World in Data](#). [Return to "What's New"](#).

Voter approval of governments' handling of Covid has improved in Asia (except for Singapore) but has cratered in Germany

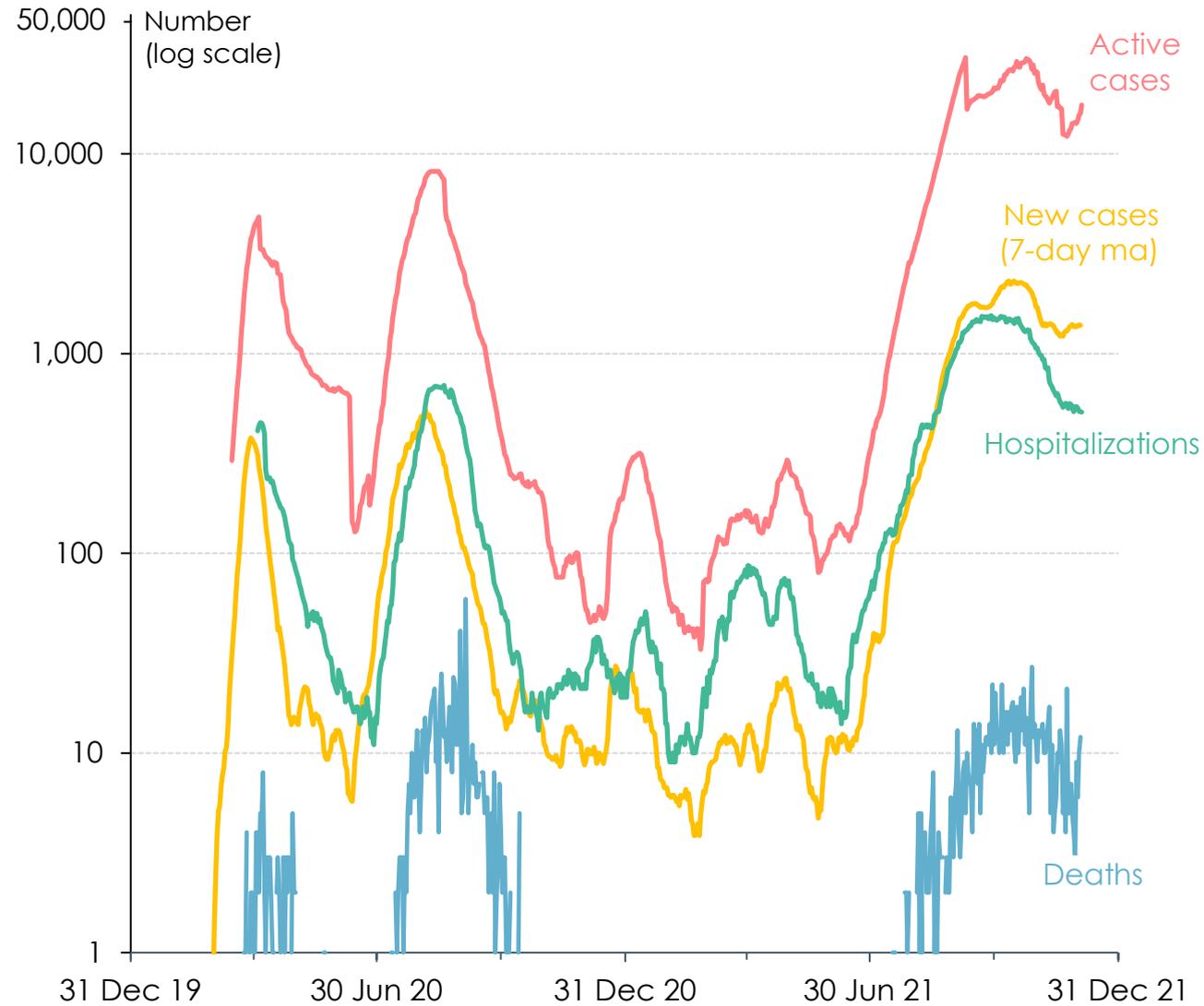
Voter approval of their government's handling of the coronavirus pandemic



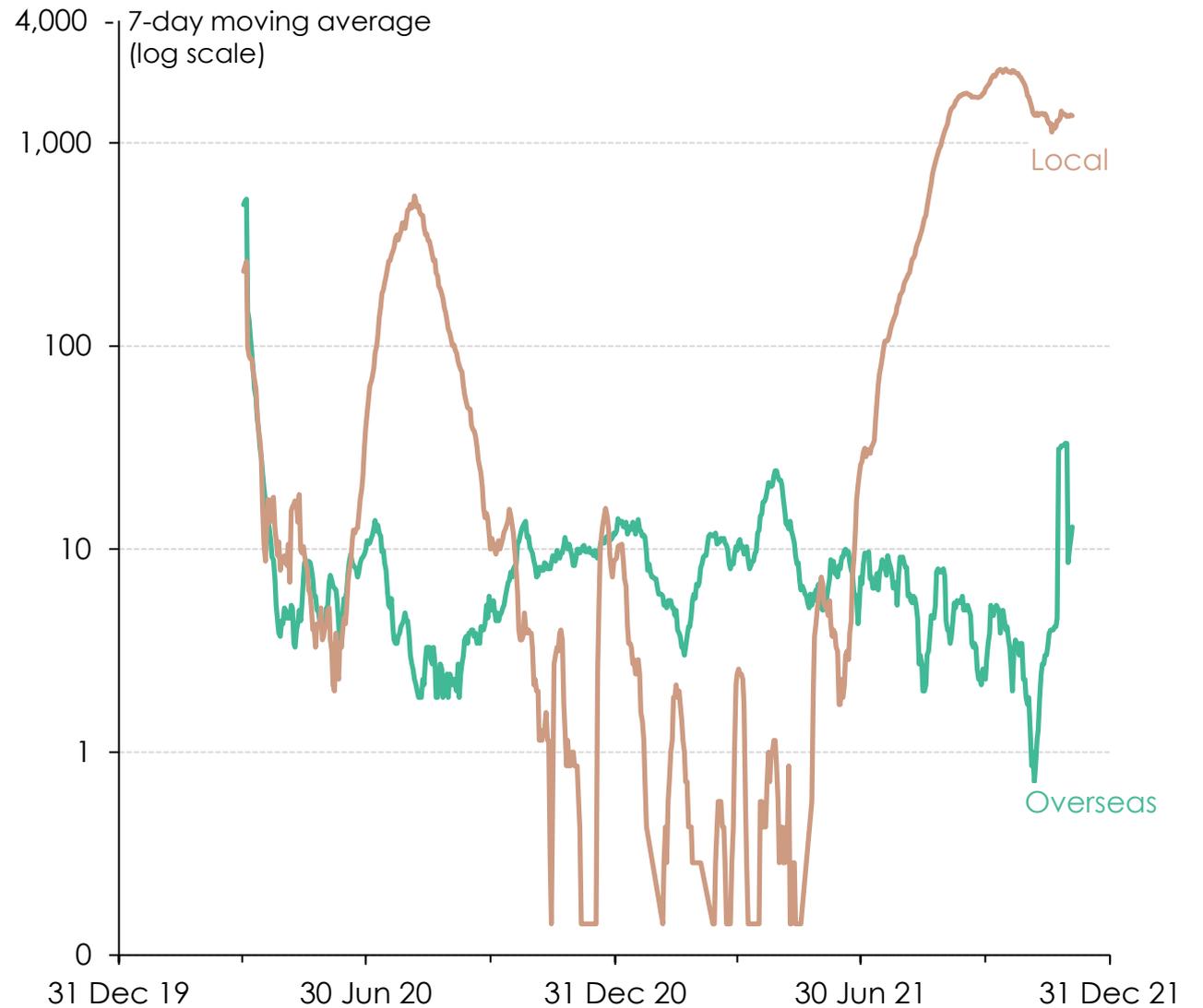
Source: YouGov, [Covid-19 tracker: government handling](#). Return to "What's New". Note:

Australia recorded 9,615 new cases this week, 37 fewer than last week, but the number of cases in hospital was the lowest since mid-August

Cases, recoveries, hospitalizations and deaths



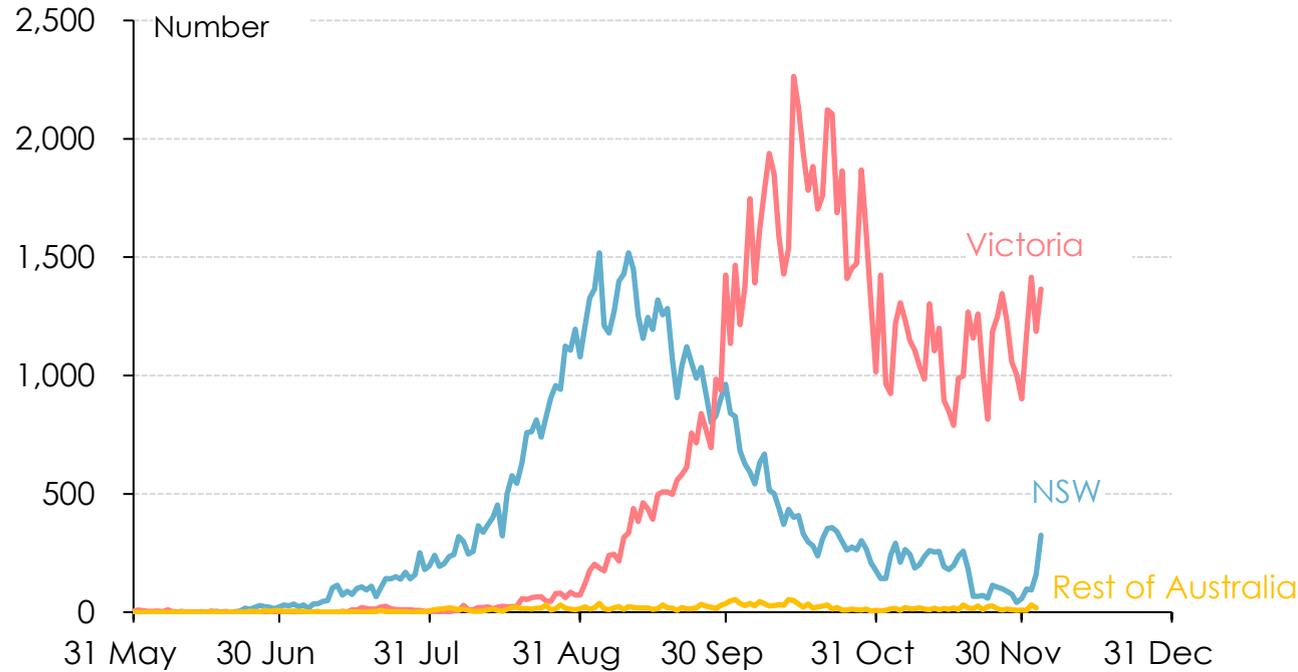
New cases, by source



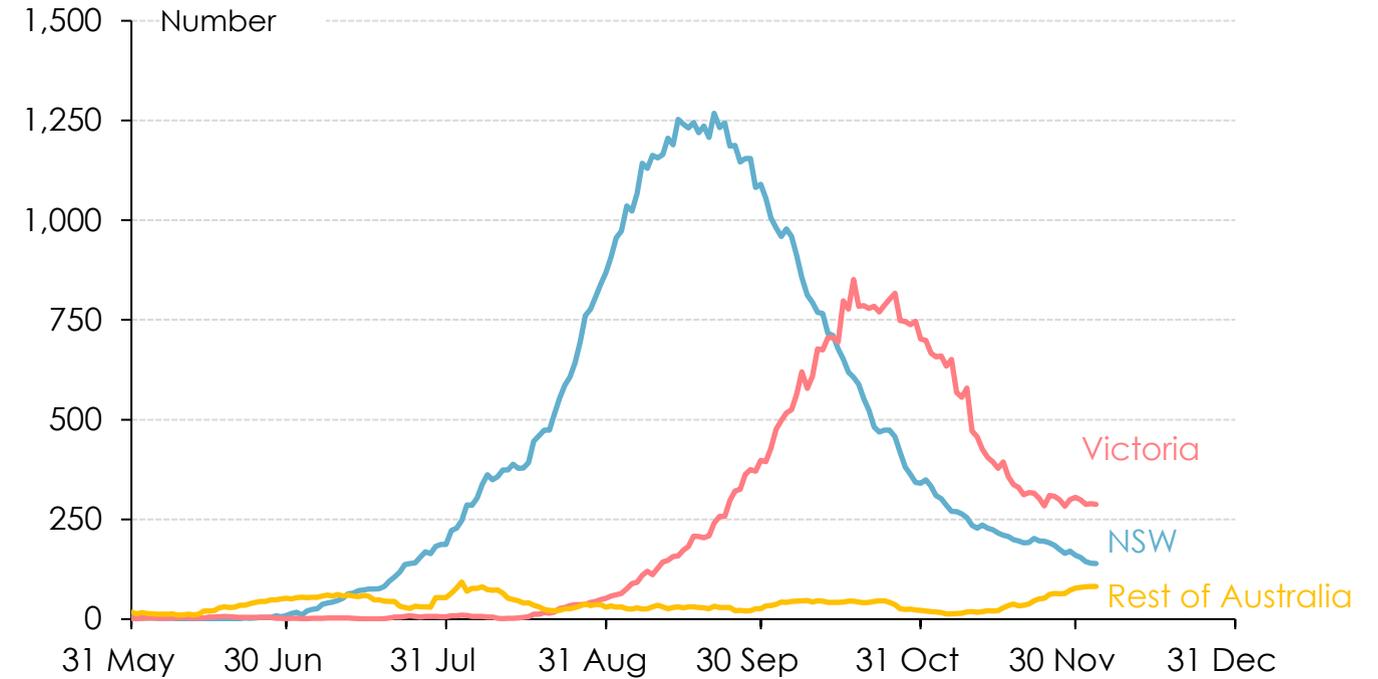
Note: Data up to 4th December. The sharp decline in 'active cases' on 10th September is entirely attributable to a 13,949 drop in the number of active cases reported in NSW (the reasons for which are not clear). Source: covid19data.com.au. [Return to "What's New"](#).

Victoria continues to record over 1,000 new cases a day – but hospital cases are declining in both NSW and Victoria

New cases



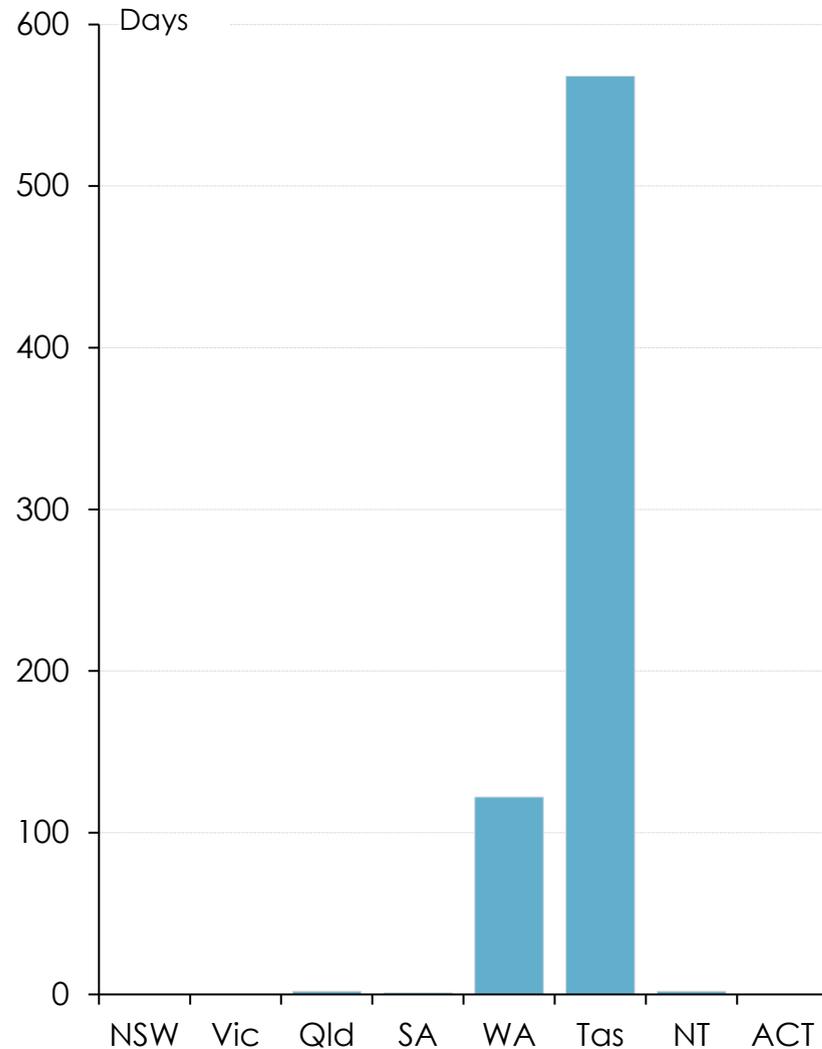
Hospitalizations



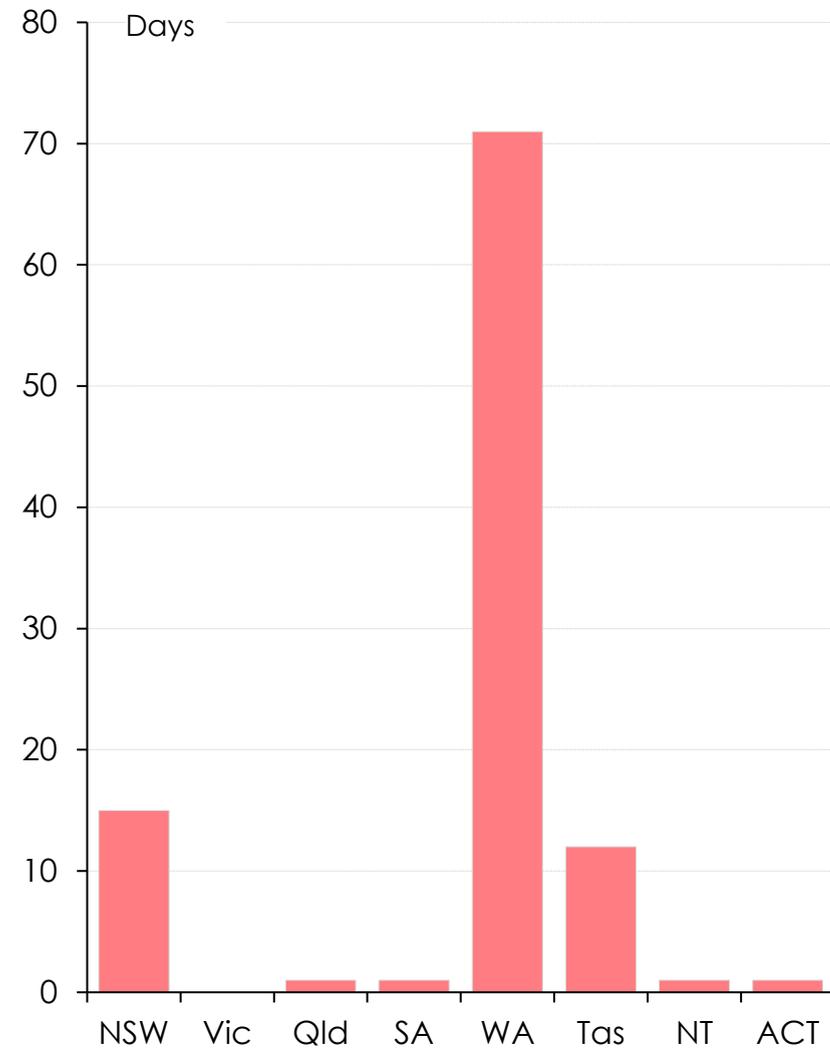
- ❑ The number of new cases in NSW rose to back over 200 a day this week, although the number requiring hospitalization has continued to slide, to its lowest level since mid-July
- ❑ By contrast Victoria is still recording over 1,100 new cases a day (albeit down from a peak of over 1,900 in mid-October), despite the proportion of its population who are fully-vaccinated being only 1 pc pt less than NSW's – but hospitalizations have continued to decline, to the lowest level since early September
- ❑ The increase in hospitalizations in other parts of Australia is principally attributable to the Northern Territory (where 61 people are now in hospital as a result of outbreaks among Indigenous communities during November) and to a lesser extent Queensland

The smaller states and territories have done better at keeping the virus at bay, partly because they receive fewer overseas arrivals

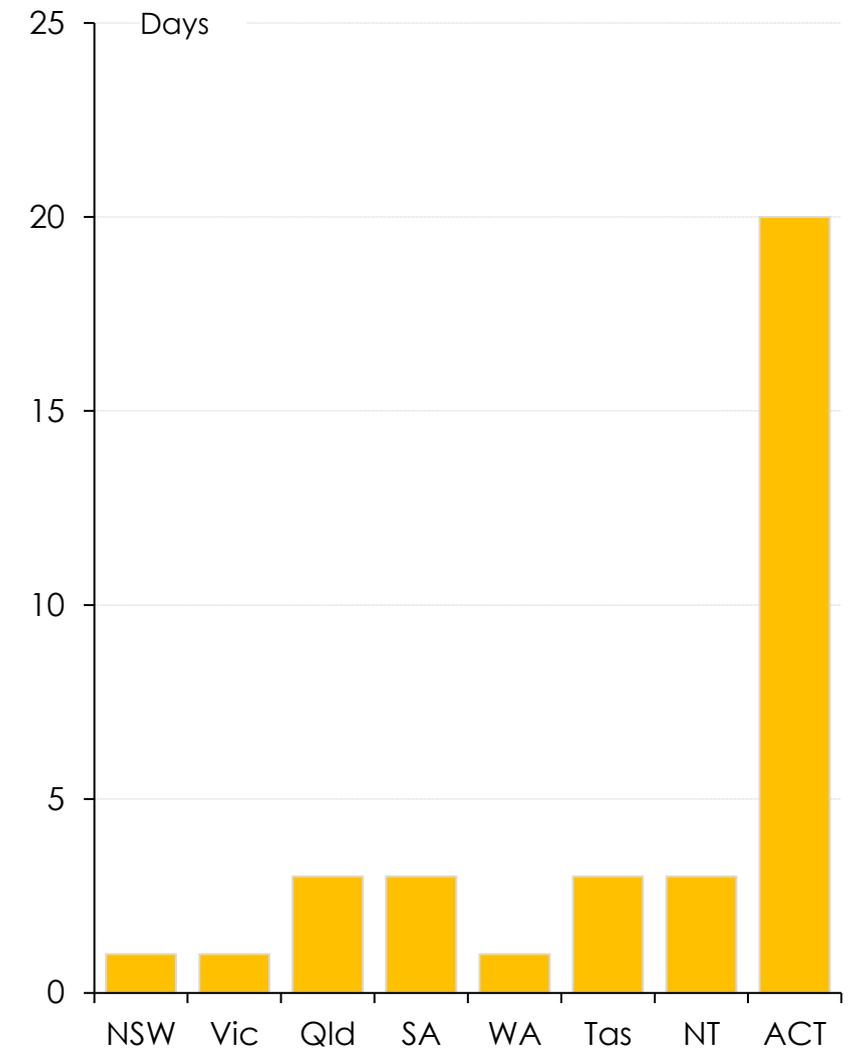
Days since last new locally-acquired case



Days since the last interstate-acquired case



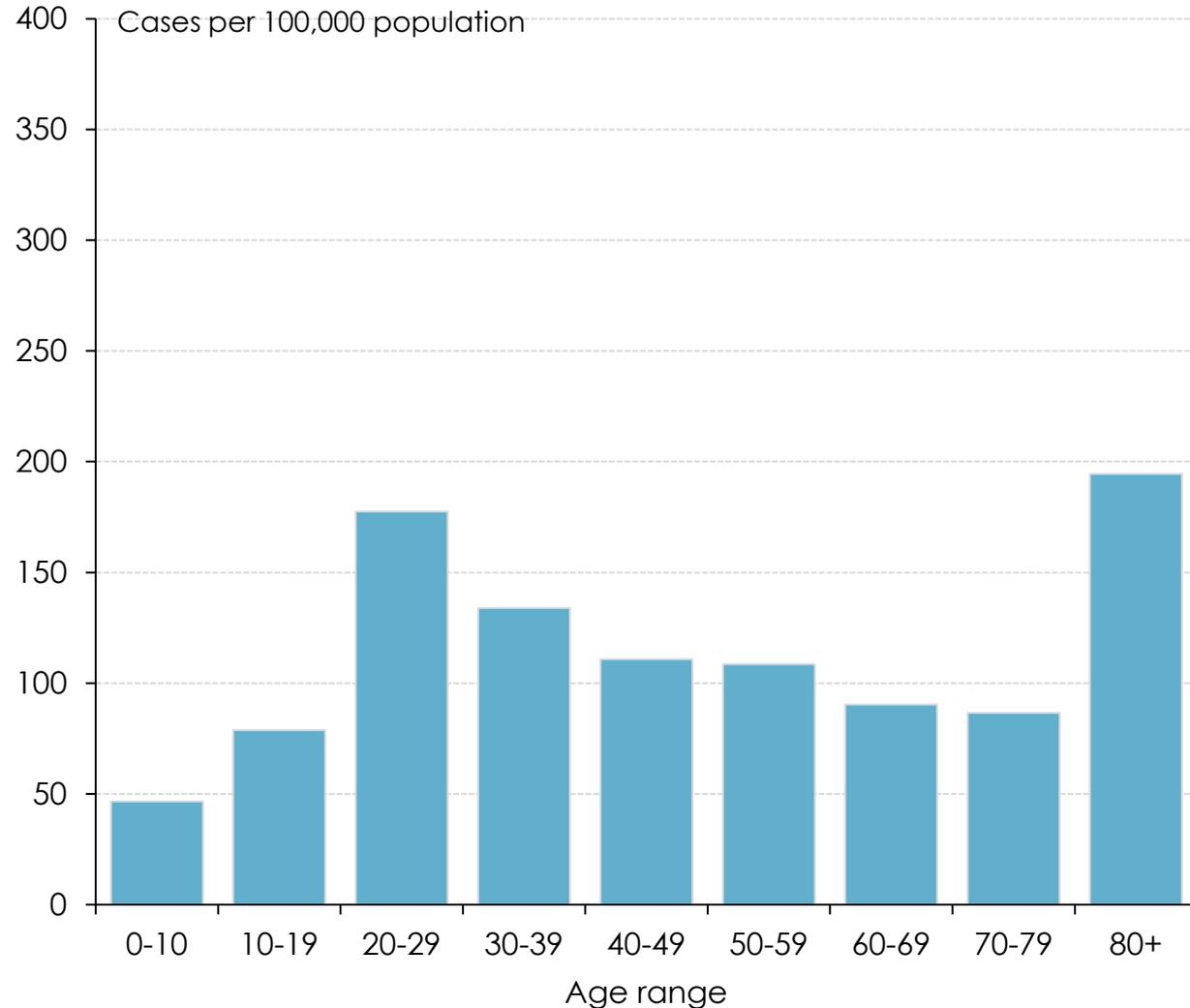
Days since last new overseas-acquired case



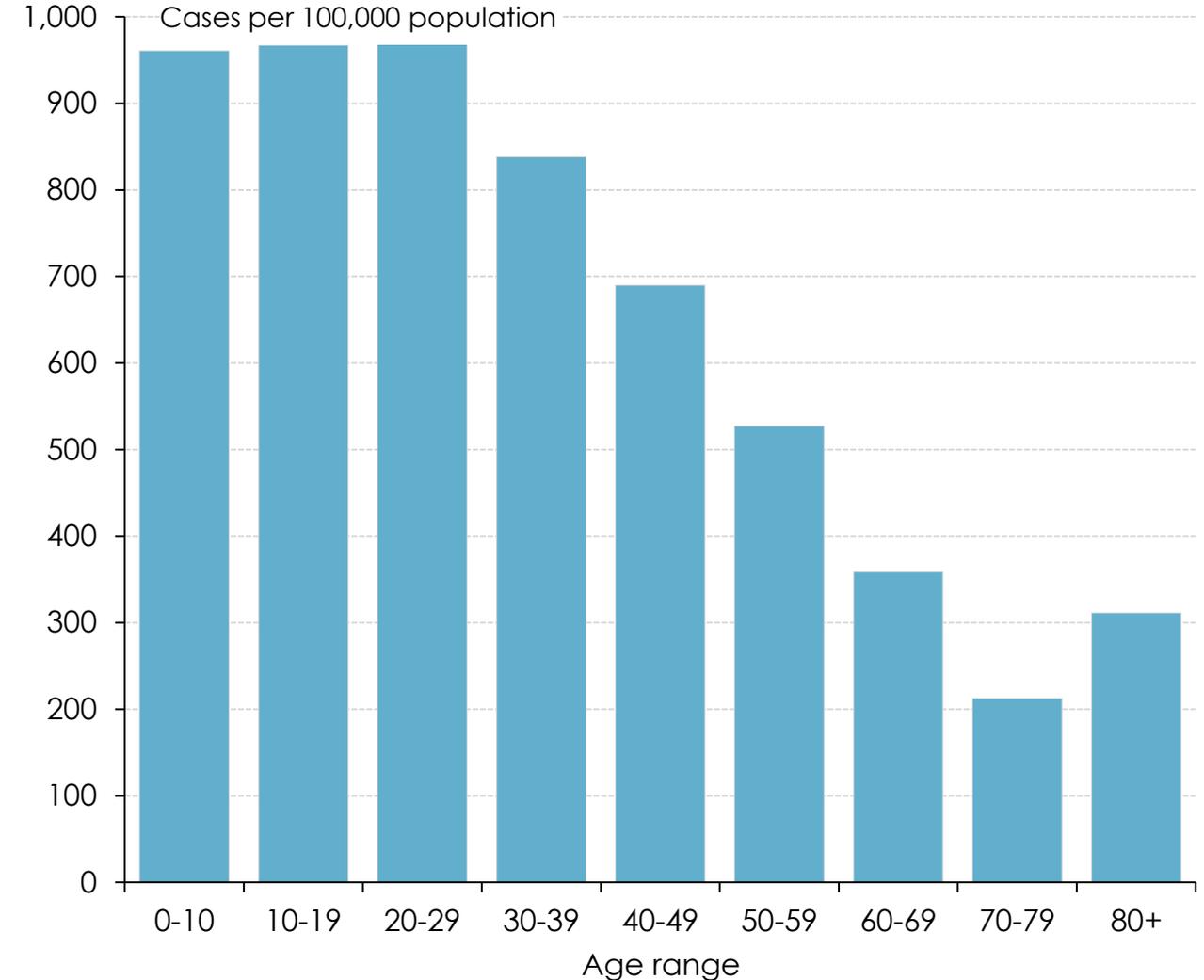
Note: Data are for 4th December. Source: covid19data.com.au. [Return to "What's New"](#).

People aged under 40 have been more likely to become infected than other age groups this year – partly because fewer have been vaccinated

Cumulative confirmed cases per 100,000 population, by age group – 2020

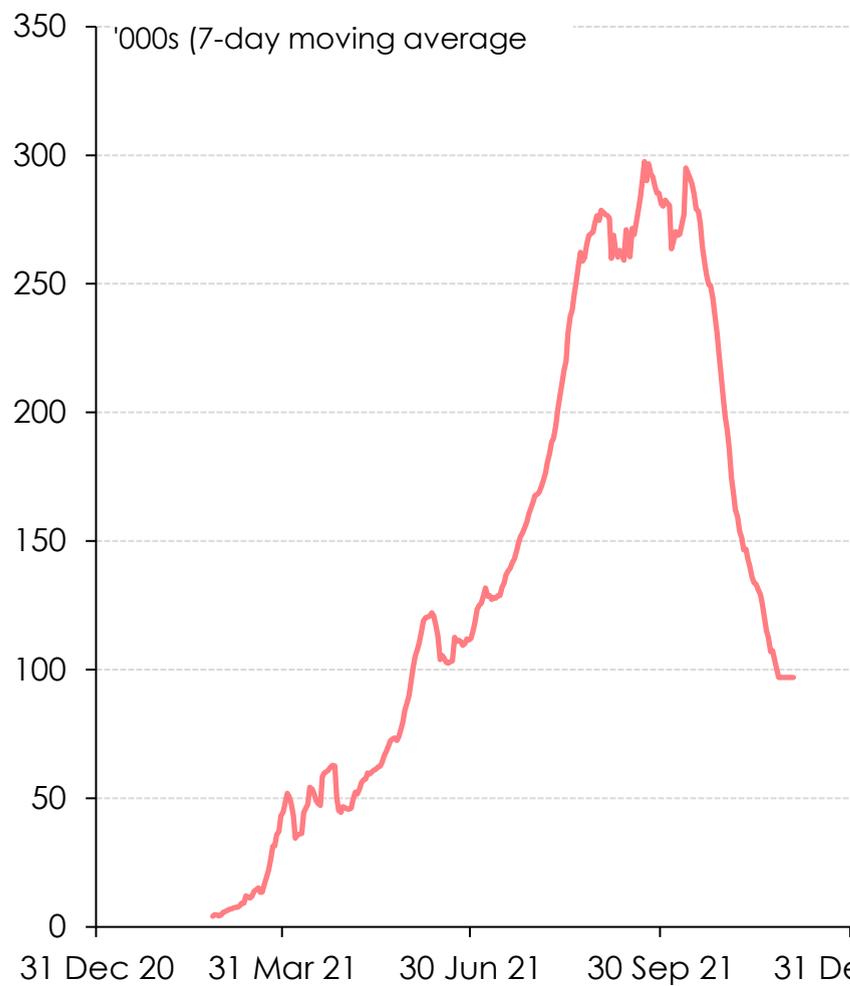


Cumulative confirmed cases per 100,000 population, by age group – 2021 to date

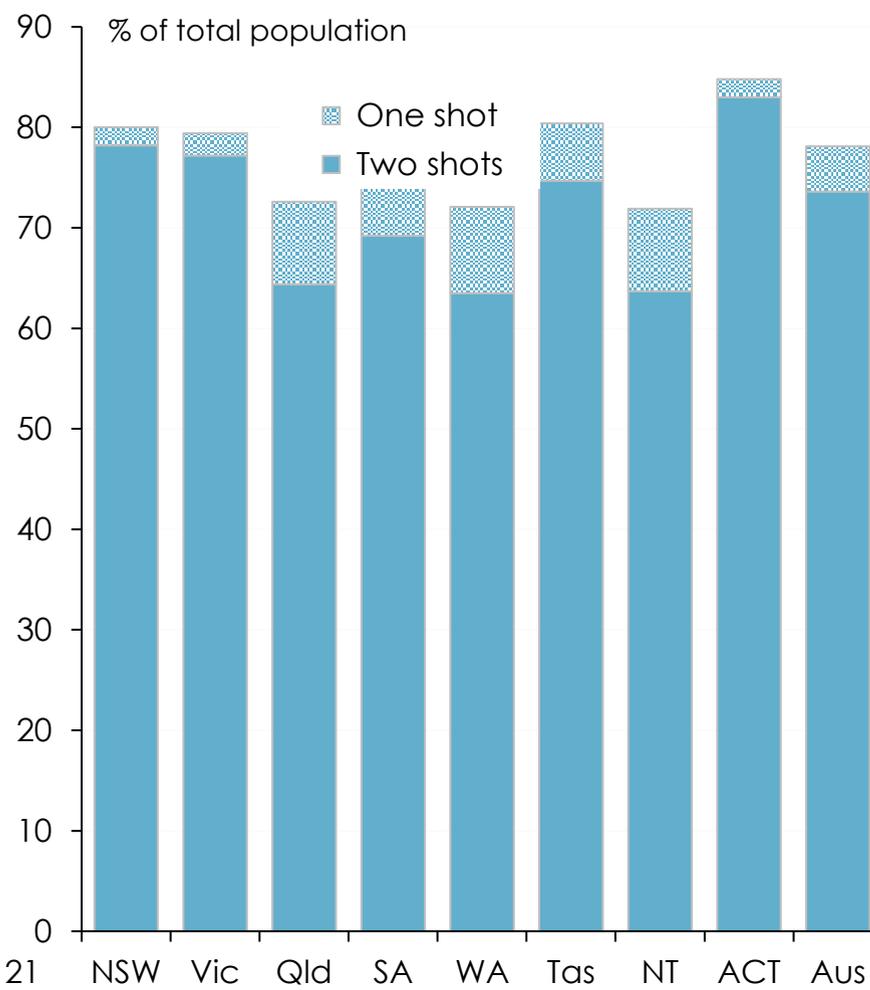


After surging in NSW, Victoria & the ACT during the recent lockdowns, vaccinations have begun to slow – with the ‘outlying states’ now well behind

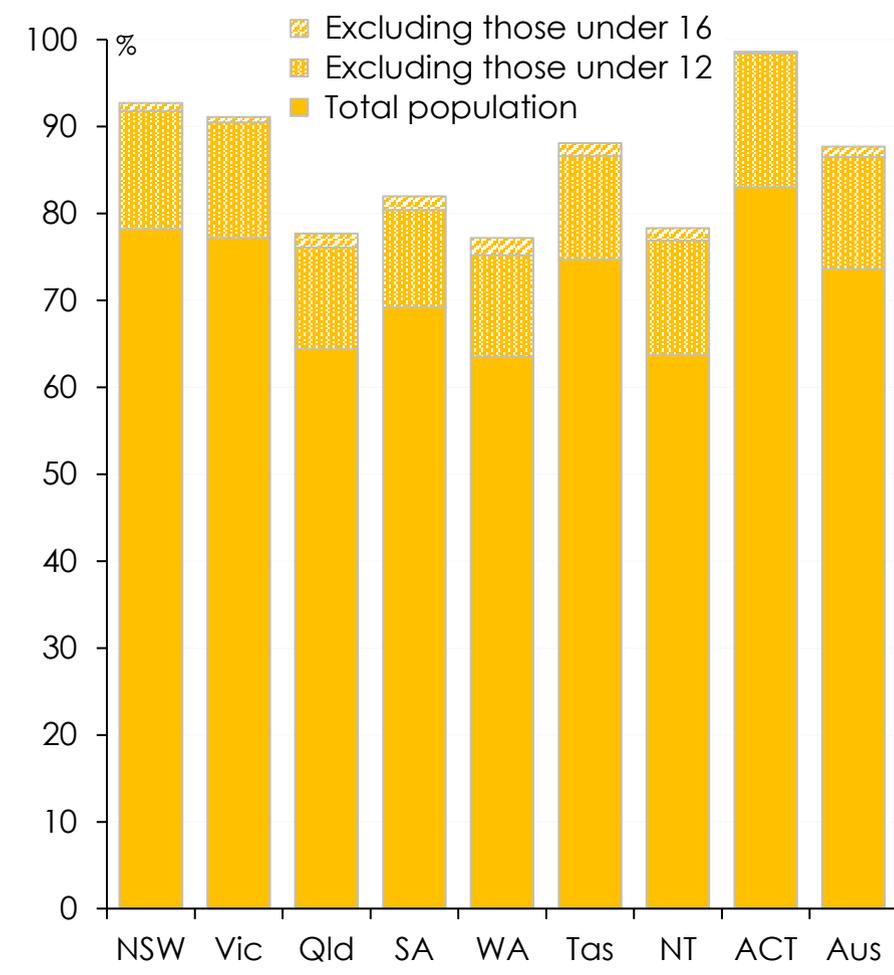
Daily number of vaccines administered



Percentage of total population vaccinated, states and territories



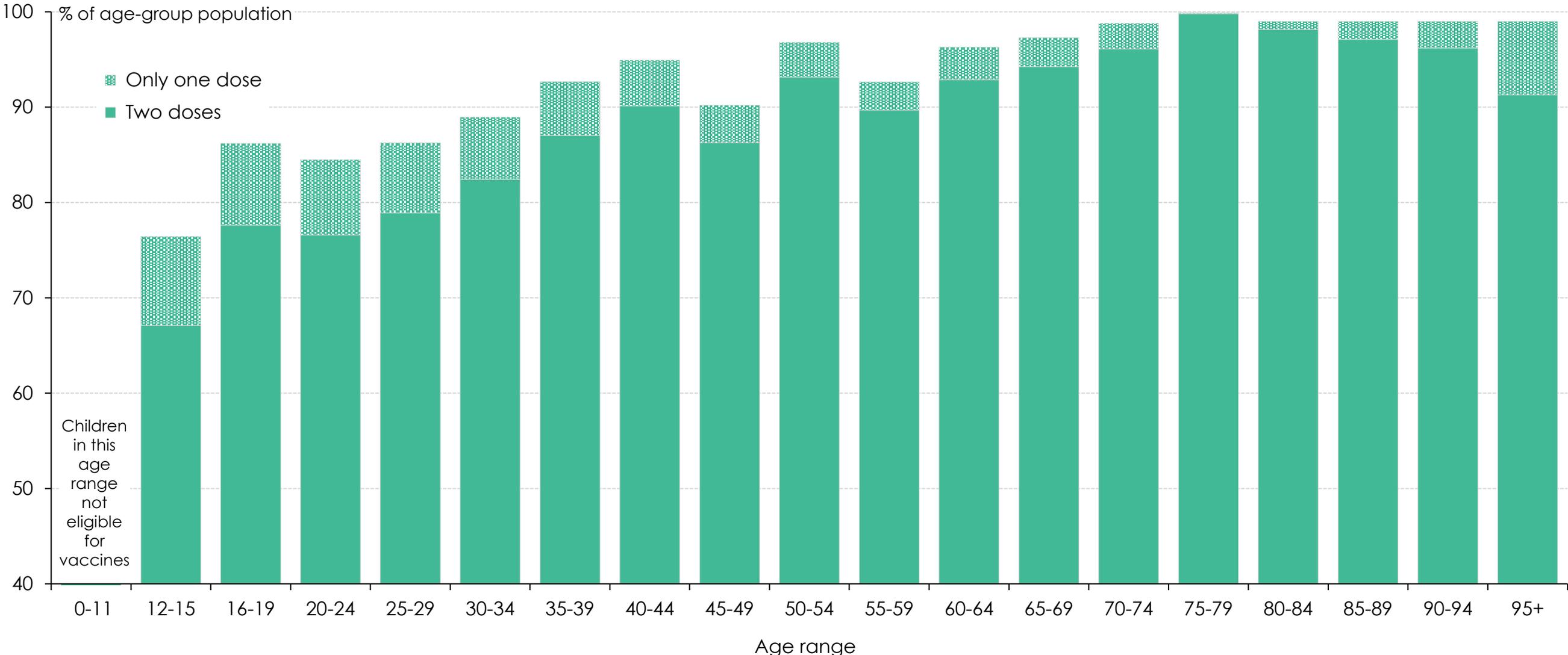
Percentage of populations double-vaccinated, states and territories



Note: Data up to 3rd December. The Federal and State Governments usually cite vaccination rates as percentages of the population aged 16 and over (even though children aged 12-15 are ‘eligible’ for vaccinations; the third chart on this page shows vaccination rates as percentages of the total population including children. See also comparisons with other nations on [slides 8](#) and [9](#). Sources: covid19data.com.au; Australian Department of Health, [Australia’s COVID-19 vaccine rollout](#). [Return to “What’s New”](#).

Vaccination rates among teenagers and younger adults appear to have slowed in recent weeks

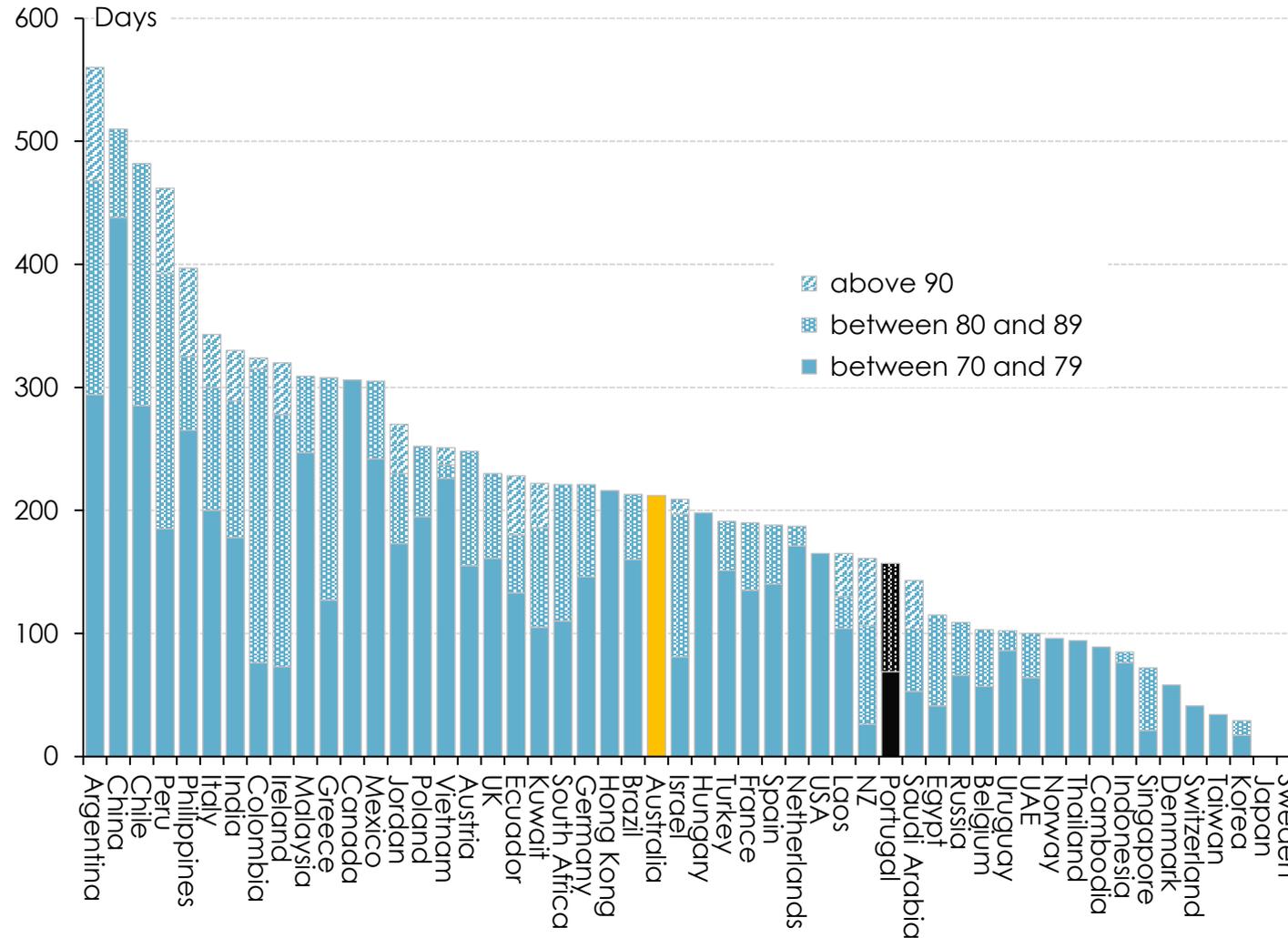
Vaccination rates by age group as at 3rd December



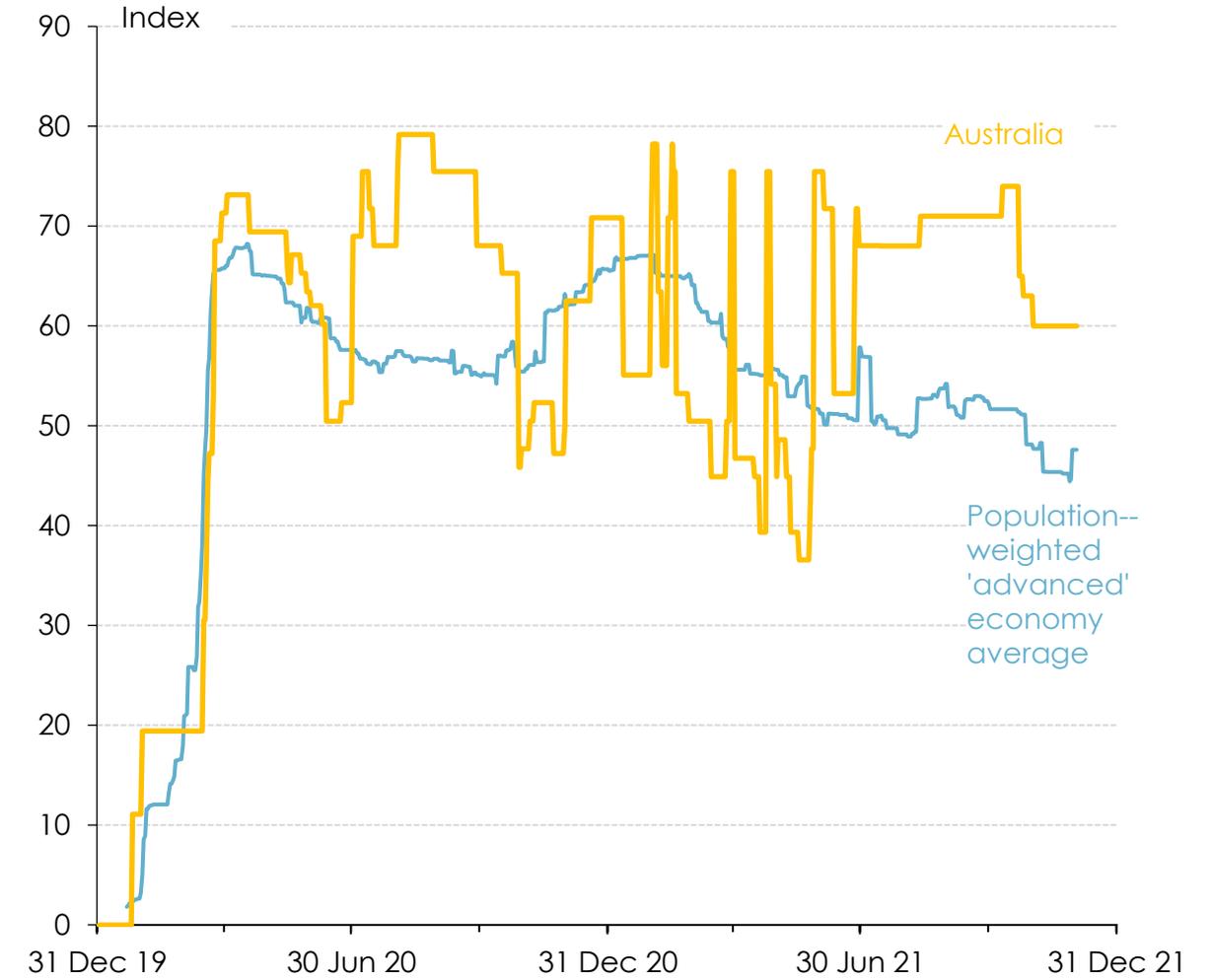
Note: For data on infections by age group see [slide 17](#).
 Source: Commonwealth Department of Health, [Covid-19 Vaccine Roll-out update](#), 3rd December 2021. [Return to "What's New"](#).

Australia's health restrictions are still stricter on average than other 'advanced' economies, but the gap is narrowing

Number of days for which the stringency of restrictions has been above 70 on the Oxford Index



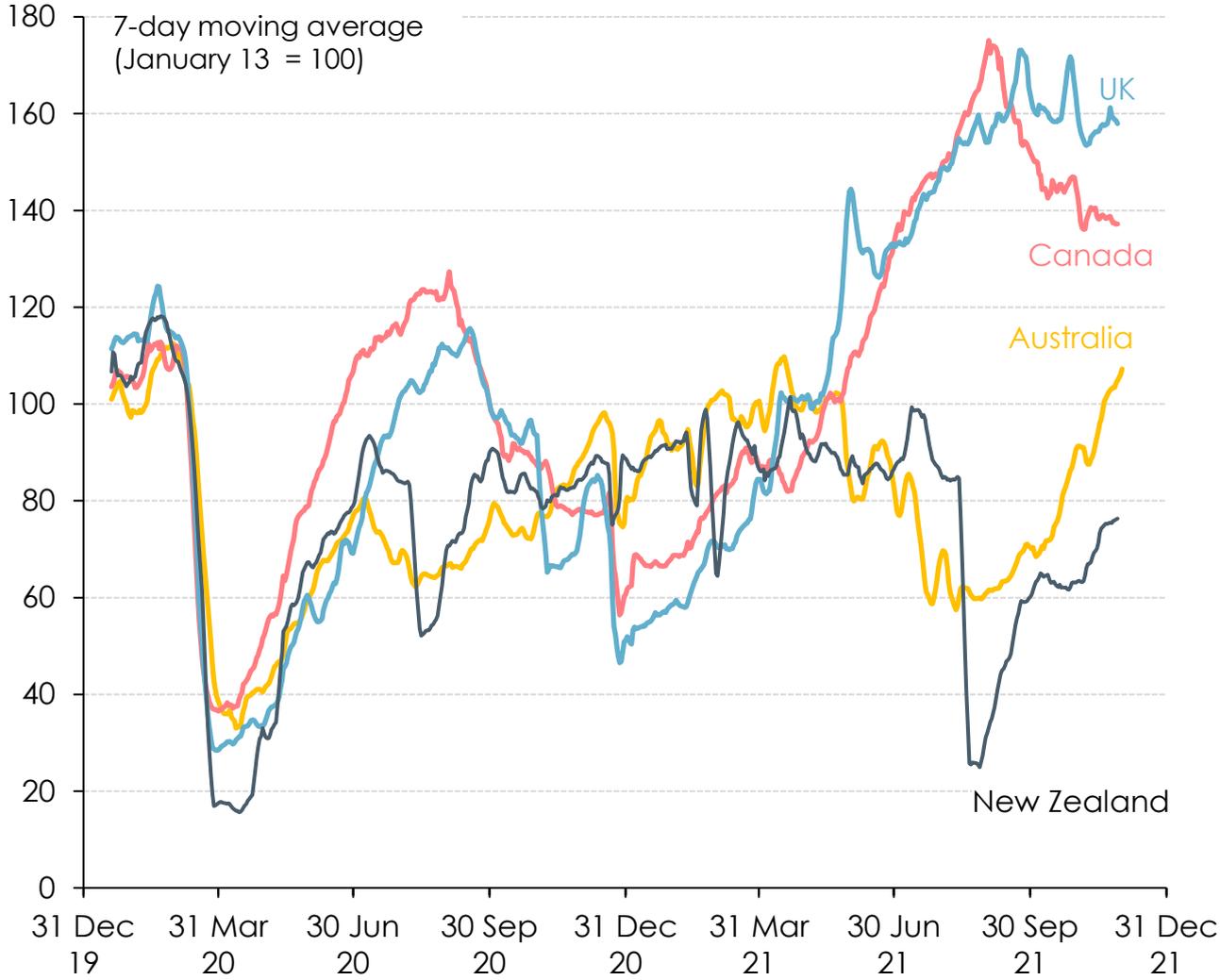
Stringency of Australia's restrictions compared with an average of other 'advanced' economies



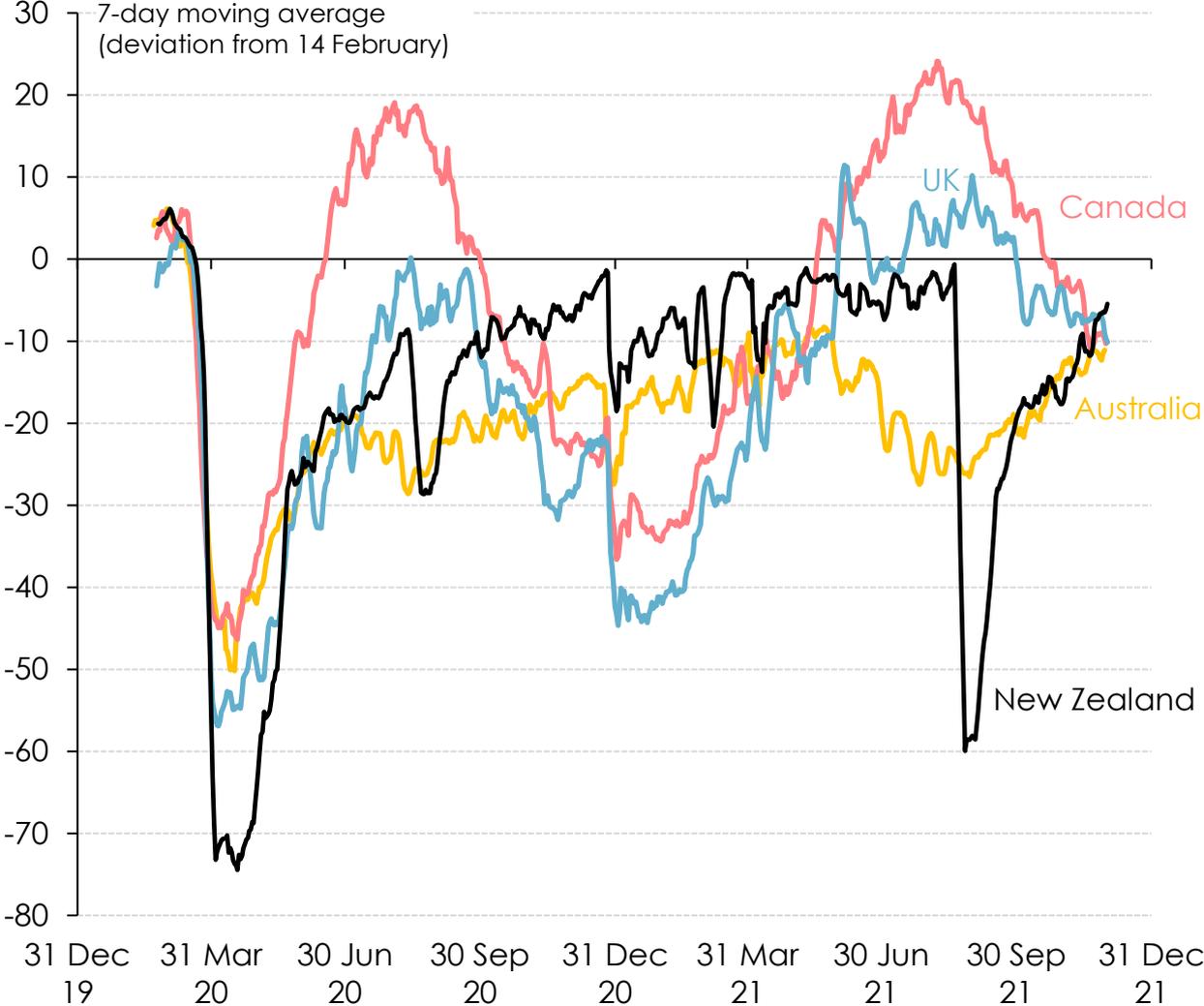
The Oxford COVID-19 Government Response Tracker collects publicly available information on 11 indicators of government response including school and workplace closures, public events cancellations, restrictions on public gatherings, stay at home requirements, public transport closures, domestic and international travel restrictions, public information campaigns, testing and contact tracing. Source: [Blavatnik School of Government, Oxford University](#). Data up to 2nd December. [Return to "What's New"](#).

Mobility indicators are showing how Australia is returning to 'normal' compared with other countries who haven't been under lockdown recently

Apple mobility indicators



Google non-residential activity mobility indicators

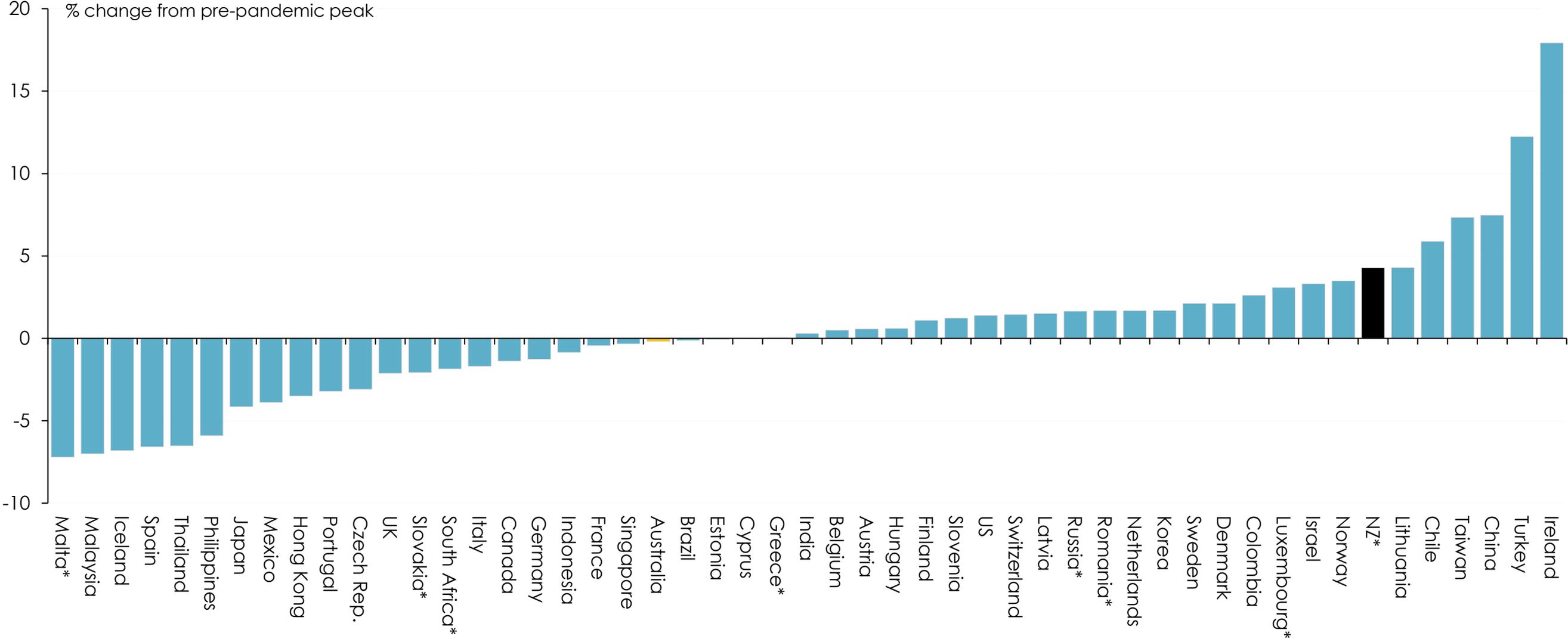


Note: 'Apple mobility indicator' is the average of three separate indicators for driving, use of transit and walking (data up to 1st December). Google 'non-residential activities' indicator is the average of separate indicators for workplaces, retail and recreation, groceries and pharmaceuticals, transit and parks (data up to 29th November).
 Sources: Apple, [Mobility Trends Reports](#); Google, [Covid-19 Community Mobility Reports](#); Corinna Economic Advisory. [Return to "What's New"](#).

The world

27 countries (out of 51 for which seasonally-adjusted Q2 or Q3 GDP estimates are available) have exceeded their pre-pandemic peaks

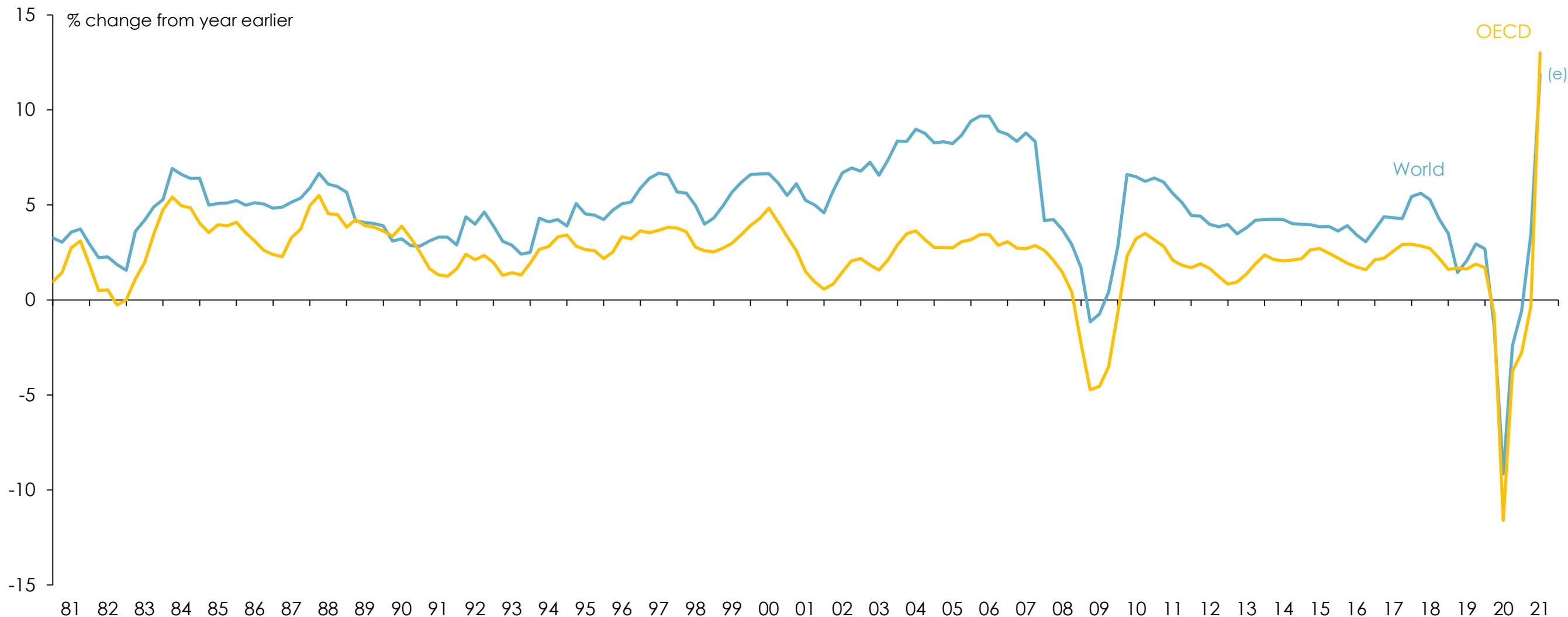
Q3 2021 real GDP compared with pre-recession peak



* Q2. Estimate for China derived from quarterly growth rates published by China NBS; estimates for India and Indonesia are seasonally adjusted by the OECD. Source: National statistical agencies and central banks. [Return to "What's New"](#).

The world economy grew by about 12% over the year to Q2 – a figure which is vastly flattered by comparison with last year's trough

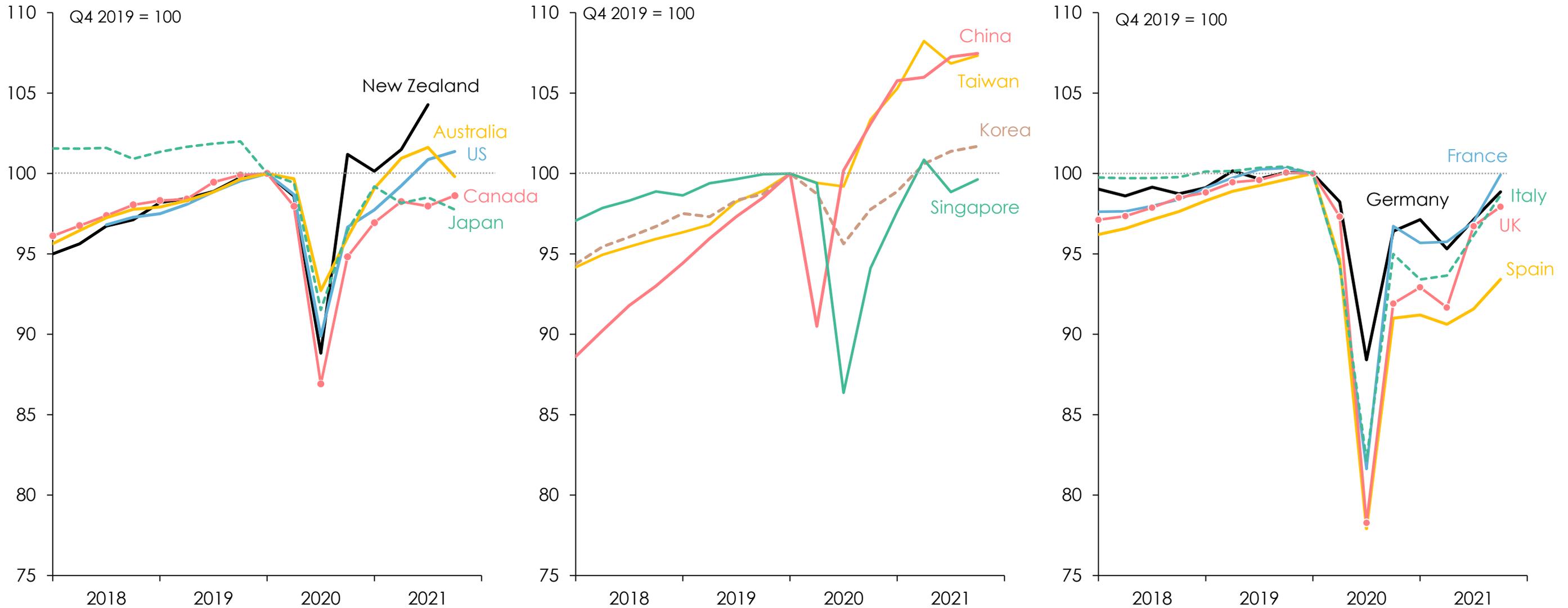
World and OECD area real GDP growth



Note: Estimates of global GDP growth compiled by Corinna using data for 100 countries accounting for 94% of 2019 world GDP as measured by the IMF, weighted in accordance with each country's share of global GDP at purchasing power parities in 2019; excludes constituents of the former USSR before 1993, the former Czechoslovakia before 1995, and the former Yugoslavia before 1998. (e) Estimate for Q2 2021 is based on published results the countries shown in the previous slide. Sources: national statistical agencies and central banks; Eurostat; [OECD](#); IMF; Corinna. [Return to "What's New"](#).

The more 'advanced' Asian economies, Australia's & NZ's and the US's, have recovered more rapidly from last year's recessions than Europe's

Levels of real GDP indexed to Q4 2019 = 100



Note: All series shown are seasonally adjusted, except for China's which has been constructed using the estimates of quarterly changes in real GDP published by the China National Bureau of Statistics. Sources: National statistical agencies, Eurostat and Bank of Korea; Corinna.

The OECD's latest *Economic Outlook* left its forecasts for global growth unchanged but raised its forecasts for inflation

Major global institutions' growth forecasts for 2020, 2021 and 2022 compared

	Actual		IMF			OECD			World Bank		Australian/NZ Treasury	
	2019	2020	2021	2022	2023	2021	2022	2023	2021	2022	2021	2022
US	2.2	-3.5	6.0	5.2	2.2	5.6	3.7	2.4	6.8	4.2	6.5	3.5
China	5.8	2.3	8.0	5.6	5.3	8.1	5.1	5.1	7.7	5.3	8.5	5.5
Euro area	1.3	-6.6	5.0	4.3	2.0	5.2	4.3	2.5	4.2	4.4	4.5	4.0
India	4.0	-8.0	9.5	8.5	6.6	9.4	8.1	5.5	8.3	7.5	11.0	5.8
Japan	0.3	-4.8	2.4	3.2	1.4	1.8	3.4	1.1	2.9	2.6	3.5	1.8
UK	1.4	-9.9	6.8	5.0	1.9	6.9	4.7	2.1	na	na	na	na
Australia	1.9	-2.4	3.5	4.1	2.6	3.8	4.1	3.0	na	na	4.3*	2.5*
New Zealand	2.2	-3.0	5.1	3.3	1.7	4.7	3.9	2.6	na	na	3.2†	4.4†
World	2.8	-3.3	5.9	4.9	3.6	5.6	4.5	3.2	5.6	4.3	6.0	4.5
World trade	0.9	-8.5	9.7	6.7	4.5	9.3	4.9	4.5	8.3	6.3	na	na
World inflation	3.5	3.2	4.3	3.8	3.3	3.5	4.2	3.0	na	na	na	na

Note: * Forecasts for fiscal years beginning 1st July (and finishing 30th June following year) † Forecasts by New Zealand Treasury for fiscal years beginning 1st July
Sources : International Monetary Fund (IMF), [World Economic Outlook](#), 12th October 2021; The World Bank, [Global Economic Prospects](#), 8th June 2021;
Organization for Economic Co-operation & Development (OECD), [Economic Outlook](#), 1st December 2021, ; Australian Treasury, 2021-22 [Budget Paper No. 1, Statement No. 2](#), 11th May 2021; New Zealand Treasury, [Budget Economic and Fiscal Update 2021](#), 20th May 2021. [Return to "What's New"](#).

The OECD's latest forecast makes largely offsetting revisions to its outlook for economic growth, but upward revisions to its outlook for inflation

OECD real GDP growth forecasts

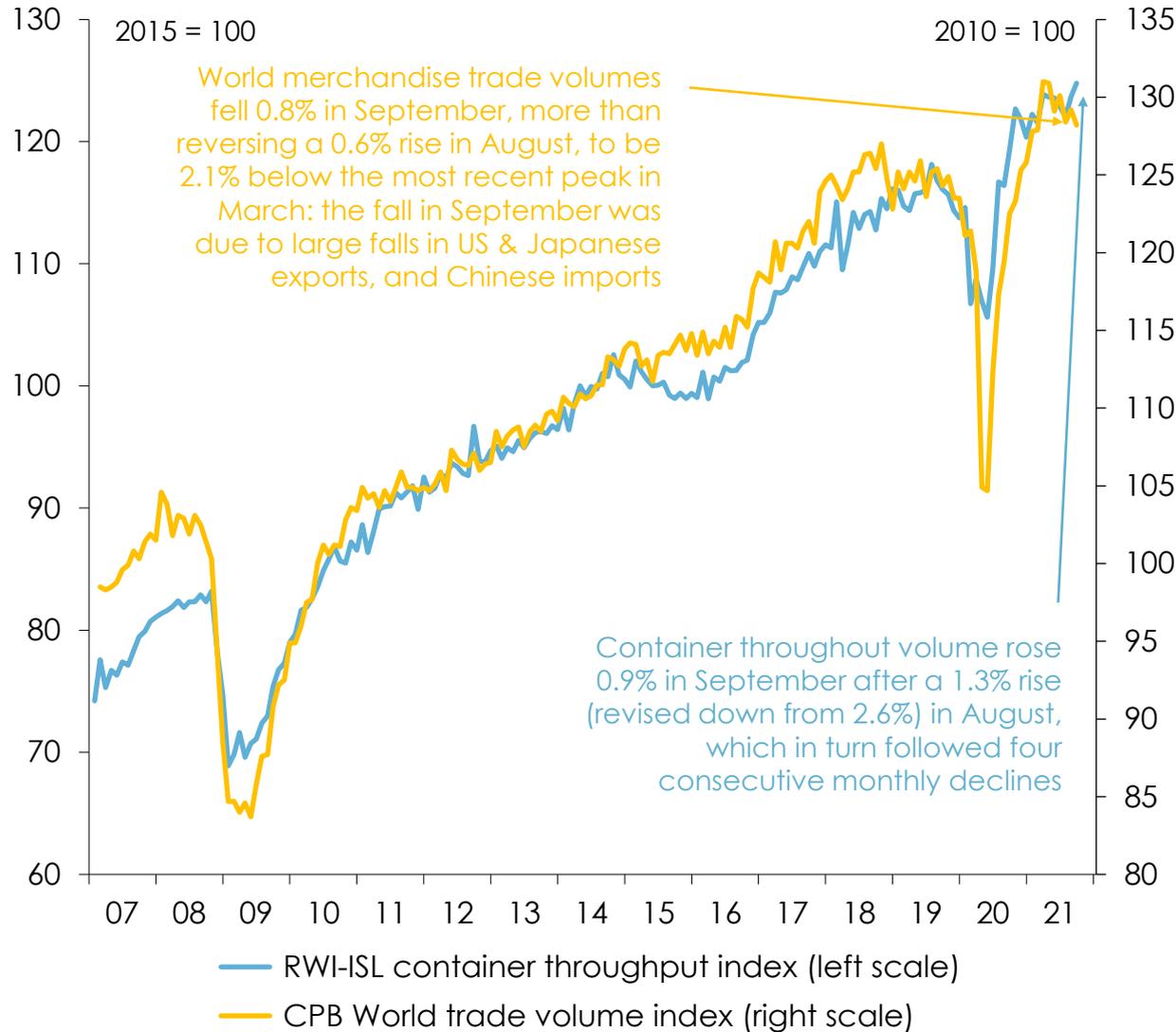
	December forecast (%)		Revision from September (pc pts)	
	2021	2022	2021	2022
Advanced economies				
US	5.6	3.7	-0.4	-0.2
Euro zone	5.2	4.3	+0.9	-0.3
Japan	1.8	3.4	-0.7	+1.3
UK	6.9	4.7	+0.2	-0.5
Australia	3.8	4.1	-0.2	+0.8
New Zealand	4.7	3.9	+1.2	+0.1
Emerging economies				
China	8.1	5.1	-0.4	-0.7
India	9.4	8.1	+2.7	-1.8
Brazil	5.0	1.4	-0.2	-0.9
Russia	4.3	2.7	+1.6	-0.7
World	5.6	4.5	-0.1	0.0
OECD area inflation	3.5	4.2	+0.8	+1.8

- The OECD's most recent [Economic Outlook](#), published this week, depicts the recovery in the global economy as having “lost momentum and becoming increasingly imbalanced”
 - “persisting supply bottlenecks, rising input costs and the continued effects of the pandemic” are sapping the momentum from the strong rebound after re-opening
 - while “stronger and longer-lasting inflation pressures have emerged in all economies at an unusually early stage of the cycle”, with “labour shortages emerging even though employment and hours worked are yet to recover fully”
- The OECD expects that “supply-side constraints and shortages should wane gradually through 2022-23”
 - with consumer price inflation in OECD countries “projected to peak by the end of 2021” at close to 5%, falling to around 3½% by end-2022 and 3% in 2023
 - while global growth is expected to “moderate over time”, from 5.6% in 2021 to 4½% in 2022 and 3¼% in 2023
 - Covid-19 should become “progressively less of a factor in global economic outcomes over coming years”, unless “new, more dangerous variants of the virus emerge”
- The OECD notes that business investment has been “recovering quickly”, and that “changes in business practices in many firms” triggered by the pandemic may have had a positive net effect on firms’ productivity
- It recommends that central banks in major advanced economies should become “less accommodative”, initially by tapering asset purchases and then by raising policy interest rates – while abrupt withdrawals of fiscal policy support “should be avoided whilst the near-term outlook is still uncertain”

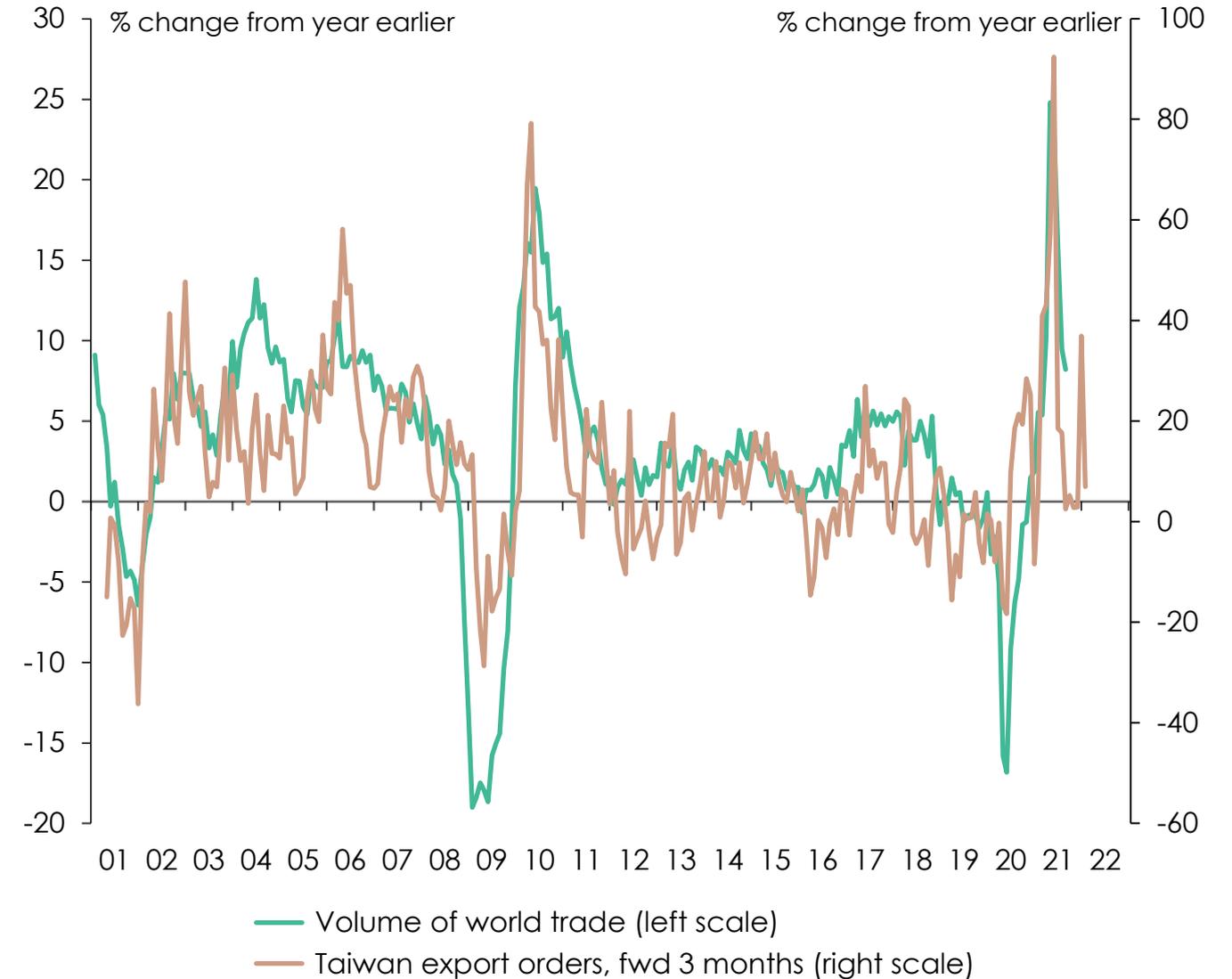
Source: OECD, [Economic Outlook](#), Volume 2021 Issue 2, 1st December 2021. [Return to "What's New"](#).

World trade volumes fell 0.8% in September, after a 0.6% increase in August, but should pick up gradually over the next few months

World trade volumes and container throughput



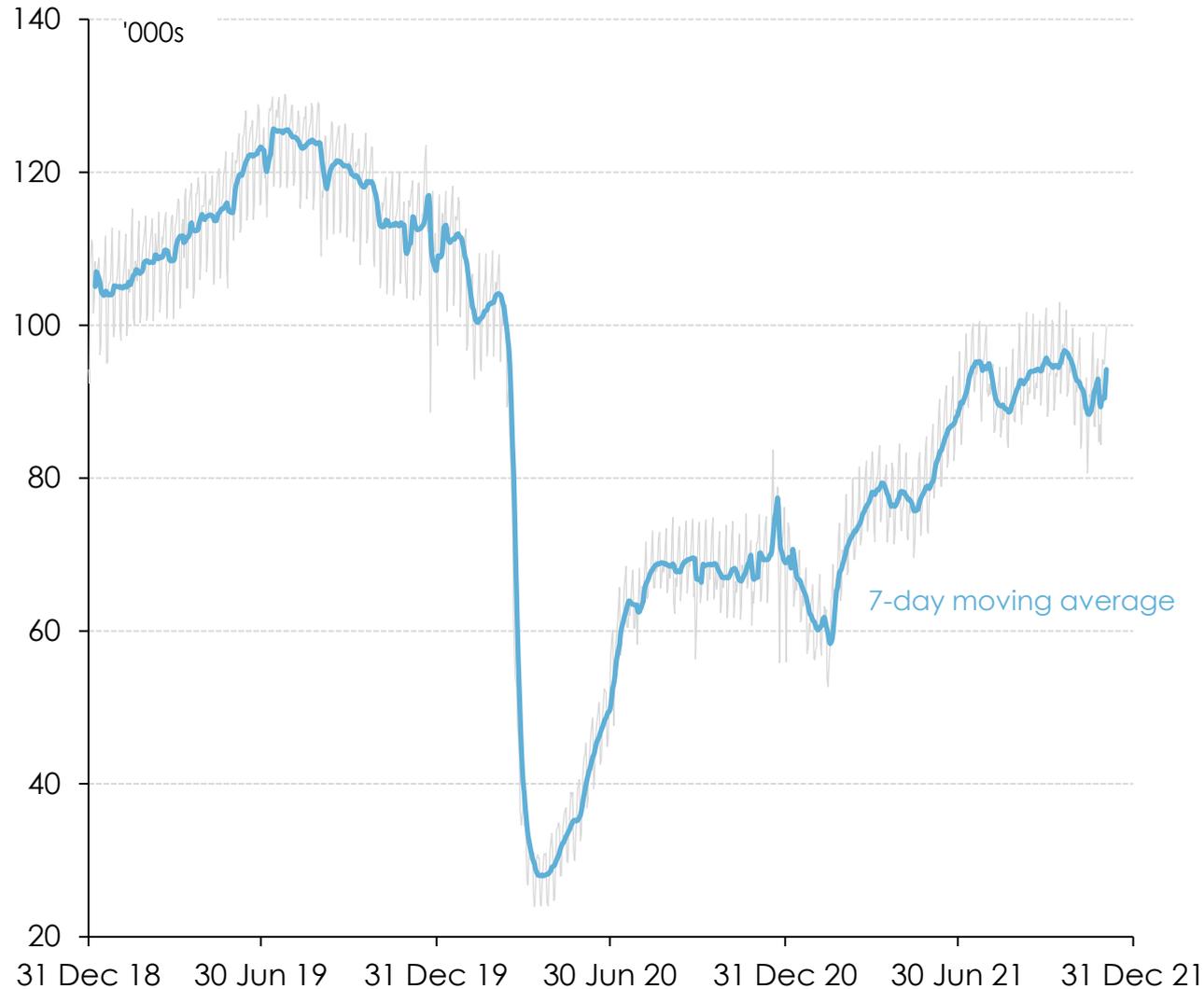
Taiwan export orders and world trade volumes



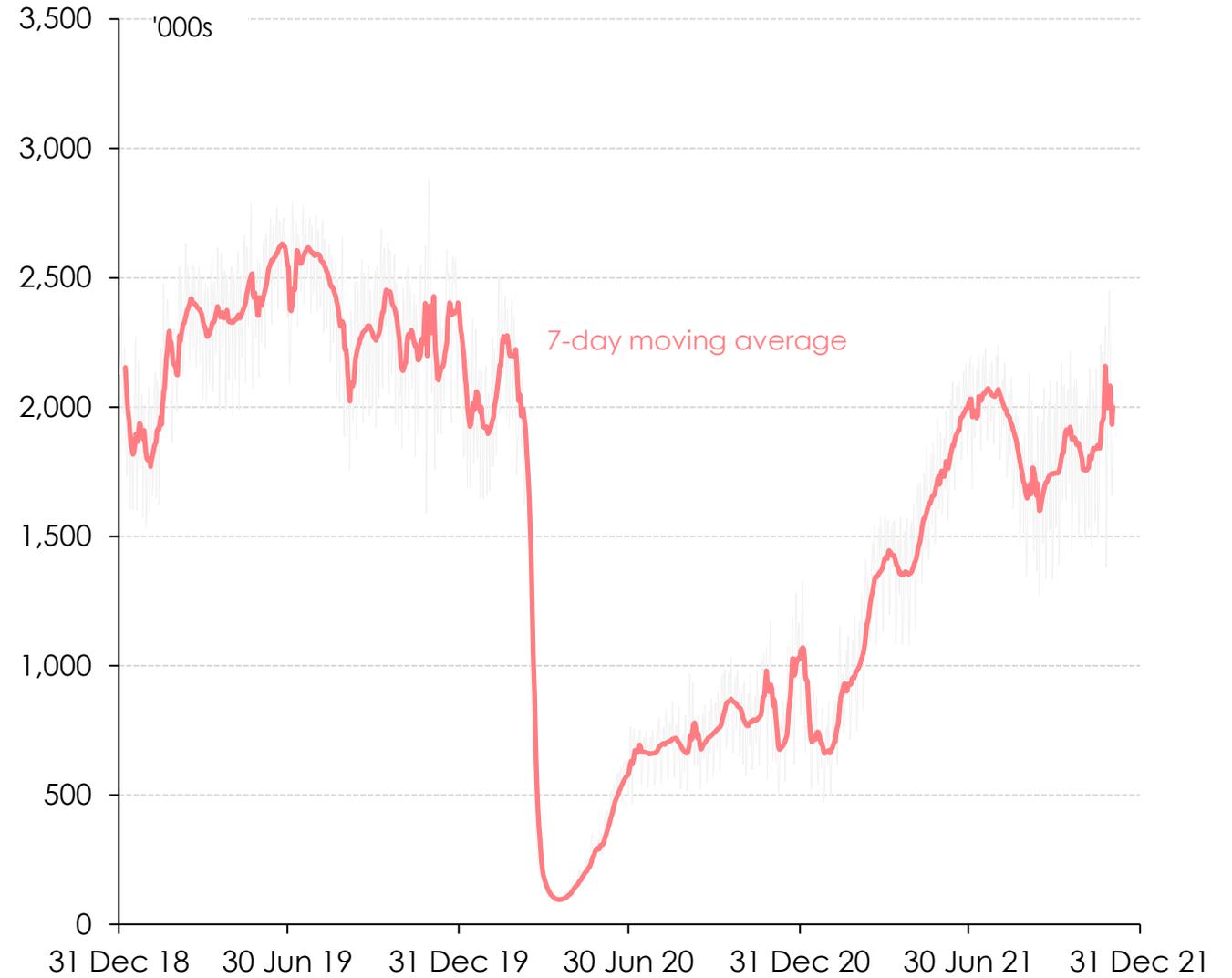
Note: The shipping container throughput index is based on reports from 91 ports around the world handling over 60% of global container shipping.
Sources: CPB Netherlands Economic Planning Bureau, [World Trade Monitor](#) (October data to be released on 24th December); Institute of Shipping Economics & Logistics (ISL) and RWI Leibniz-Institut für Wirtschaftsforschung (RWI) [Container Throughput Index](#); Taiwan [Ministry of Economic Affairs](#). [Return to "What's New"](#).

Aviation traffic is picking up again after having been dampened by the spread of the 'delta variant' during the middle two quarters of the year

Daily commercial flights worldwide



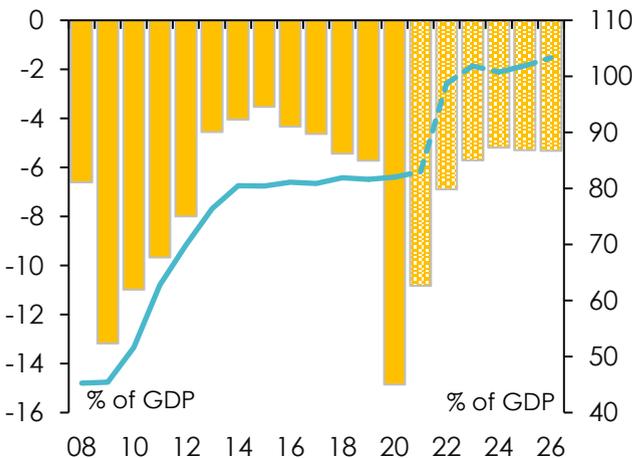
Daily US TSA 'security' checks



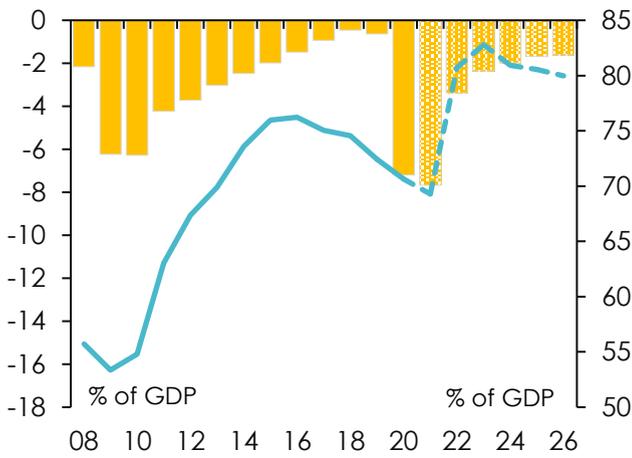
Note: Commercial flights include commercial passenger flights, cargo flights, charter flights, and some business jet flights. Daily flights data are up to 3rd December and TSA checks up to 2nd December. Thicker coloured lines are 7-day centred moving averages of daily data plotted in thin grey lines. Sources: [Flightradar24.com](https://www.flightradar24.com/); [US Transport Safety Administration](https://www.transportation.gov/) (at last, something useful produced by aviation 'security'!!!). [Return to "What's New"](#).

Fiscal policy in almost all major economies is set to tighten significantly in 2022

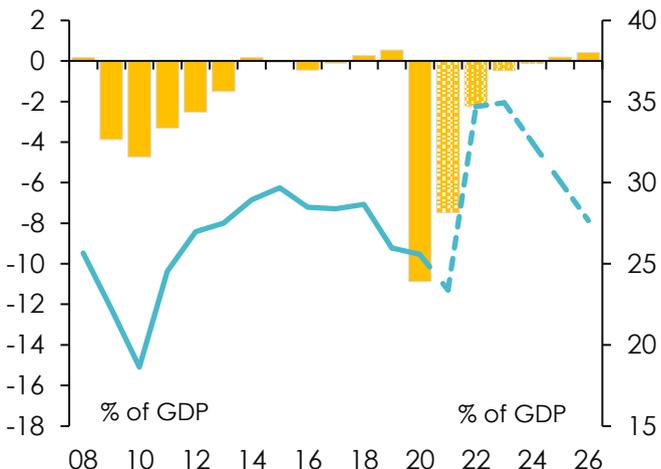
United States



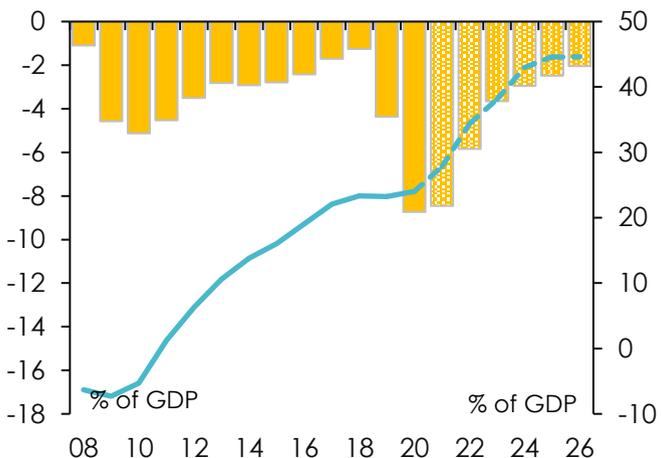
Euro area



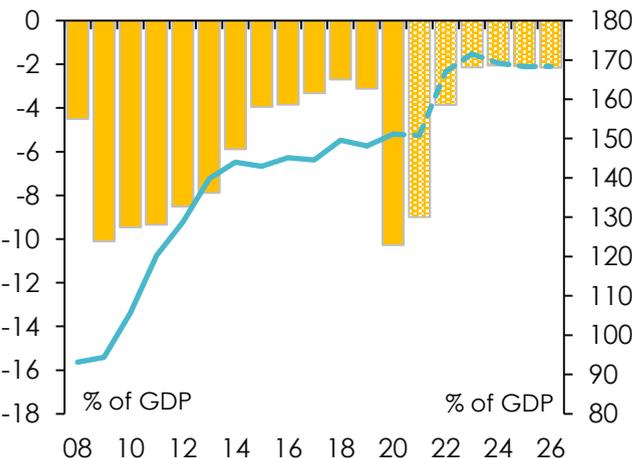
Canada



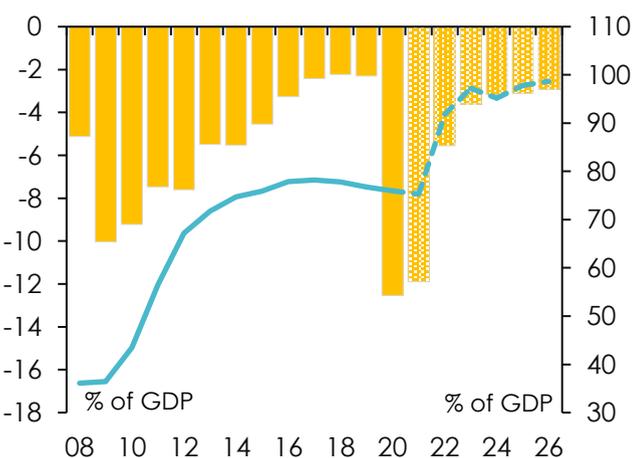
Australia



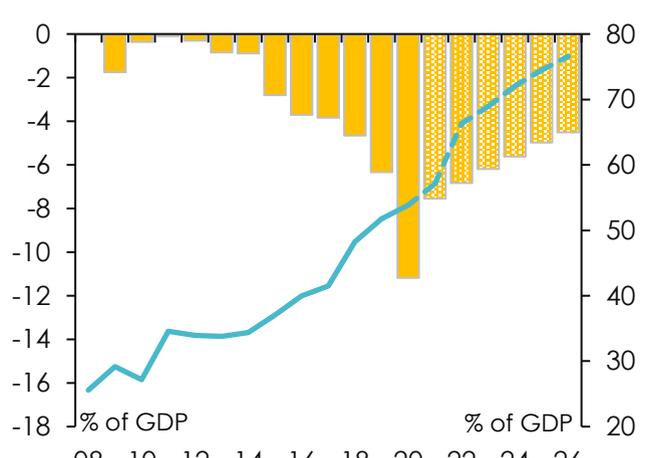
Japan



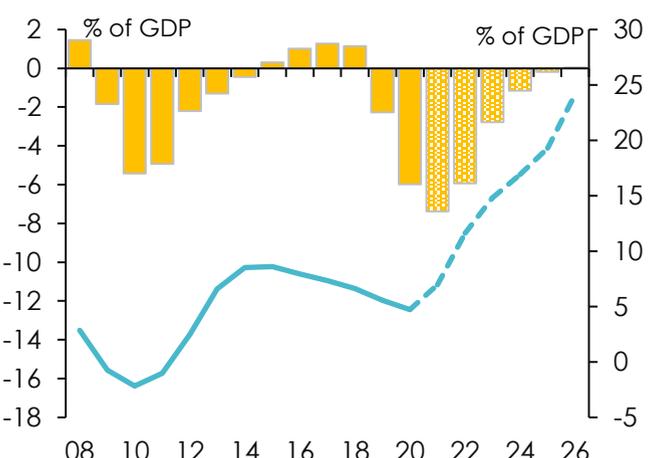
United Kingdom



China



New Zealand

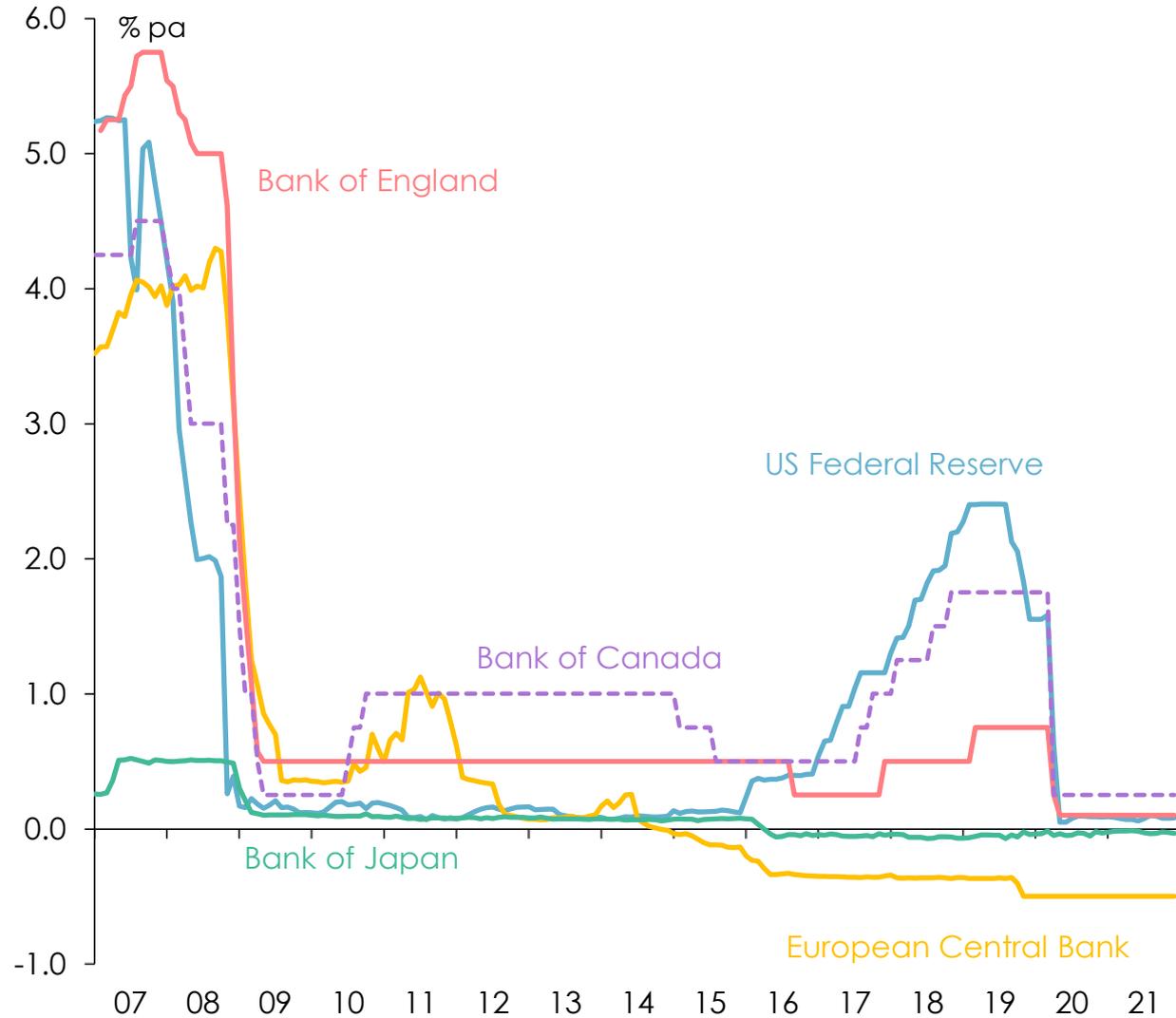


■ General government overall fiscal balance (left scale)
 — General government net debt (right scale)

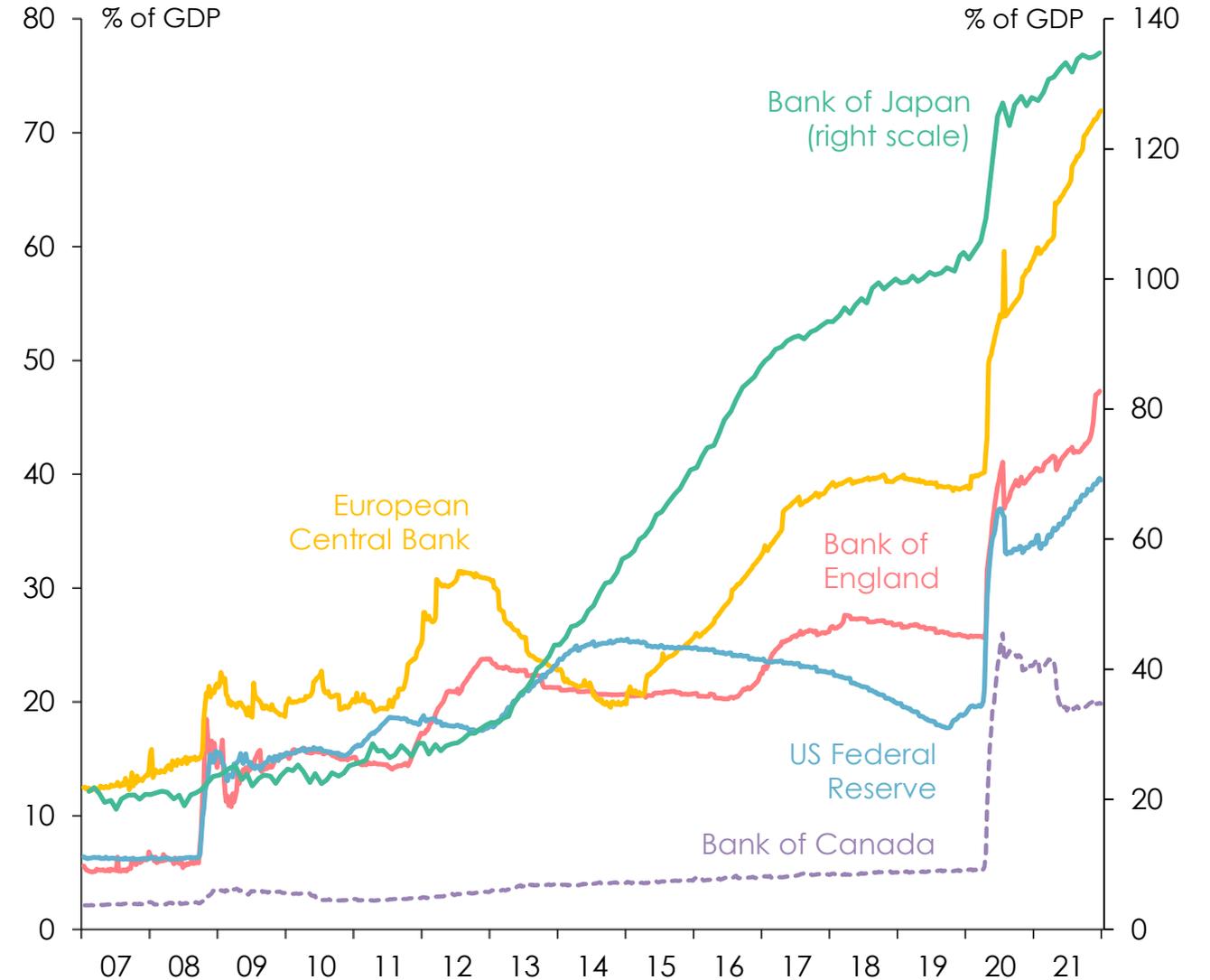
Note: China debt is gross debt, not net. Sources: International Monetary Fund, [Fiscal Monitor](#), and [World Economic Outlook](#), October 2021. [Return to "What's New"](#)

Major central banks have cut interest rates to record lows, and done more 'quantitative easing' than during the global financial crisis

Major central bank policy interest rates



Major central bank balance sheets



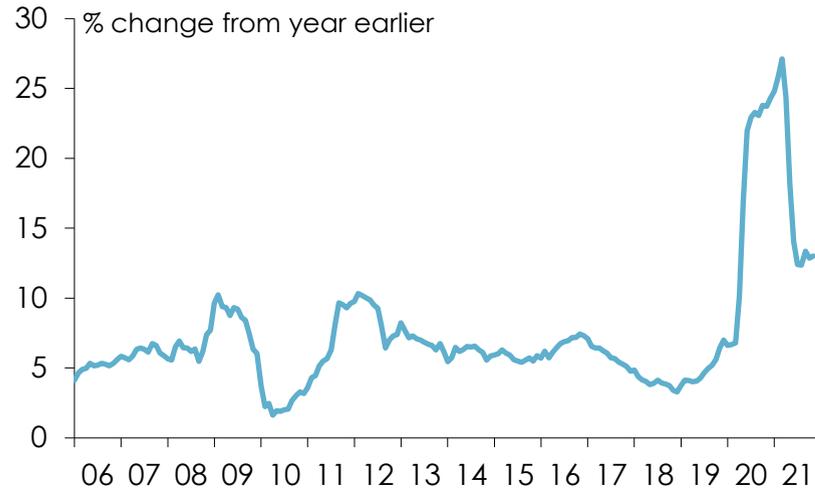
Note: estimates of central bank assets as a pc of GDP in Q2 2020 were inflated by the sharp drop in nominal GDP in that quarter: conversely, declines in estimates of central bank assets as a pc of GDP in Q3 2020 are in large part due to rebounds in nominal GDP. Sources: [US Federal Reserve](#); [European Central Bank](#); [Bank of Japan](#); [Bank of England](#); [Bank of Canada](#); national statistical agencies; Corinna. [Return to "What's New"](#).

US Federal Reserve Chair Jerome Powell and NY Fed President John Williams this week both foreshadowed an earlier end to the Fed's 'QE'

- ❑ **US Federal Reserve Chair Jerome Powell this week expressed greater concern about the persistence of inflation**
 - he told the Senate Banking Committee it was “probably a good time to retire” the description of the rise in inflation this year as “transitory”
 - and pledged to “use [the Fed’s] tools to prevent higher inflation from becoming entrenched”
- ❑ **Powell foreshadowed that at its next meeting (on 14-15th December) the Federal Open Market Committee would consider a faster ‘tapering’ of its asset purchases than signalled at its last meeting**
 - instead of finishing in June, it now appears likely that the Fed will terminate its purchases of US Treasury bonds and mortgage-back securities by the end of March next year
 - that would in turn open the door to increases in the fed funds rate beginning in June next year (depending on developments in the labour market and with regard to inflation)
- ❑ **Powell appeared to downplay the likelihood that the emergence of the ‘omicron variant’ of Covid-19 would have much bearing on the Fed’s thinking**
 - although noting that “the recent rise in COVID-19 cases and the emergence of the Omicron variant pose downside risks to employment and economic activity and increased uncertainty for inflation”, he nonetheless didn’t think its effects would be “remotely comparable” to those experienced in March last year
- ❑ **New York Fed President (and FOMC Vice-Chair) John Williams also appeared to signal support for a faster pace of tapering**
 - he expressed concern that the spread of the ‘omicron variant’ could “continue the excess demand in areas that don’t have capacity, and stall the recovery in the areas where we do have capacity”
 - and said he expected the Fed would have to “grapple with” whether “it would make sense to end asset purchases somewhat earlier, maybe by a few months”

Money supply growth has slowed sharply from the peaks recorded earlier this year as large monthly increases a year ago 'wash out'

US M2



Euro area M2



Australia M3



Japan M2 + CDs



UK M2



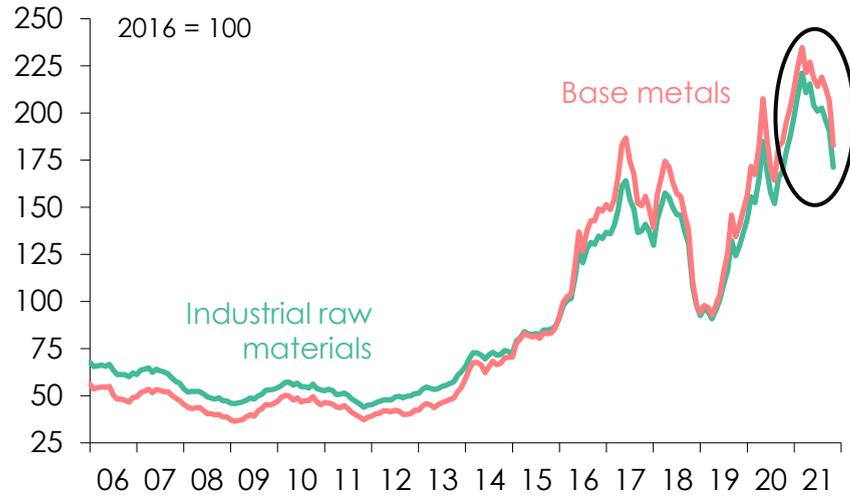
New Zealand M3



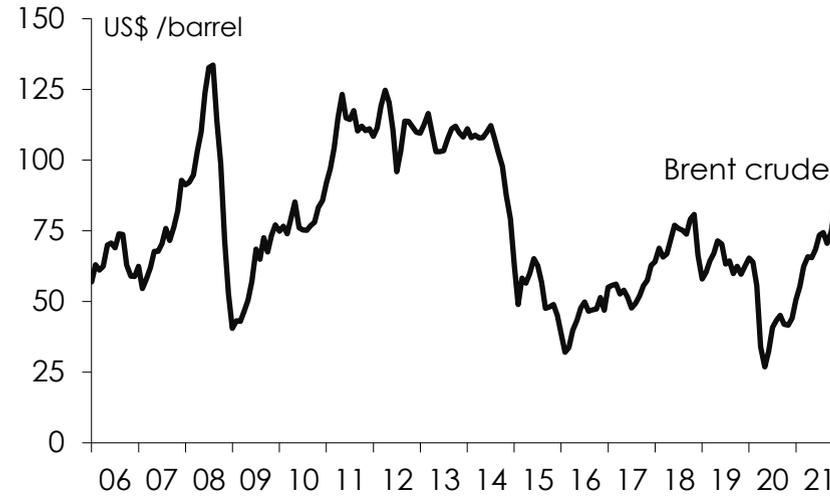
Sources: US Federal Reserve; European Central Bank; Bank of Japan; Bank of England; RBA; RBNZ. [Return to "What's New"](#).

The global factors which have contributed to 'upstream' price pressures in recent months seem to have peaked (at least for now)

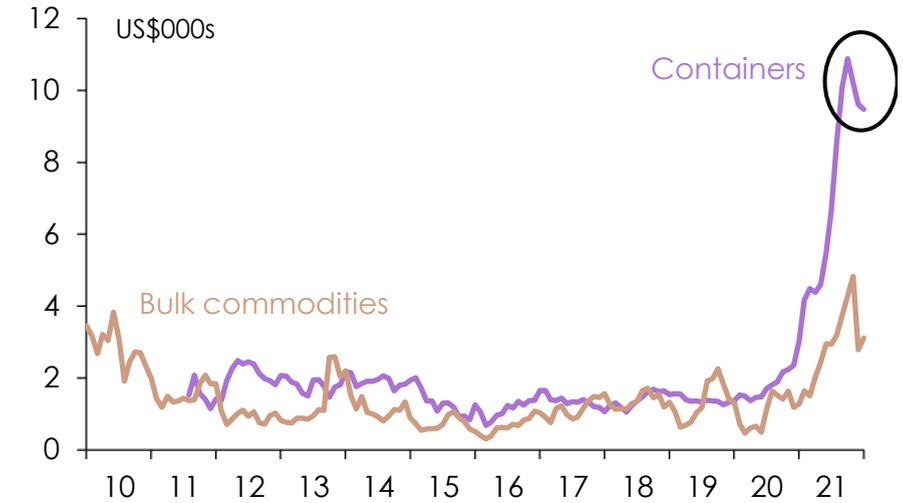
'Hard' commodity prices



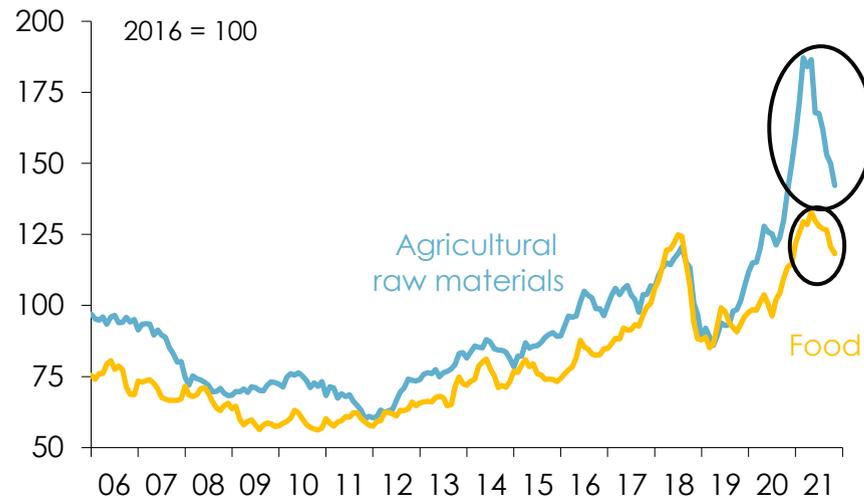
Crude oil price



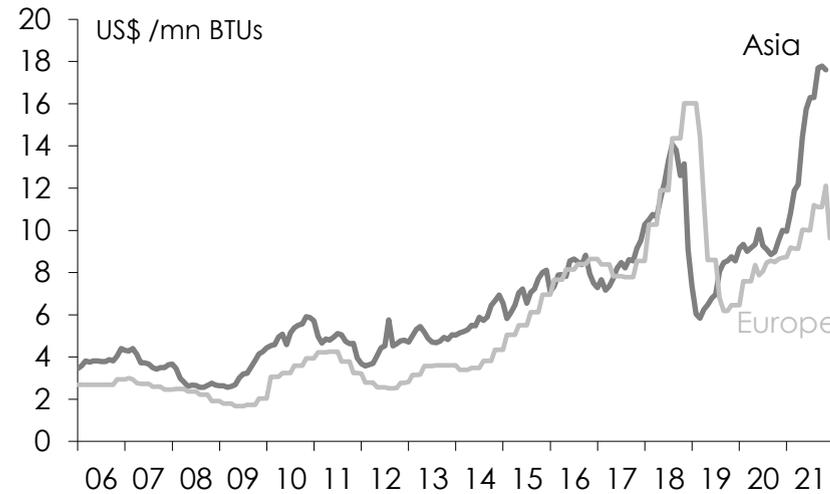
Shipping freight costs



'Soft' commodity prices



Natural gas prices



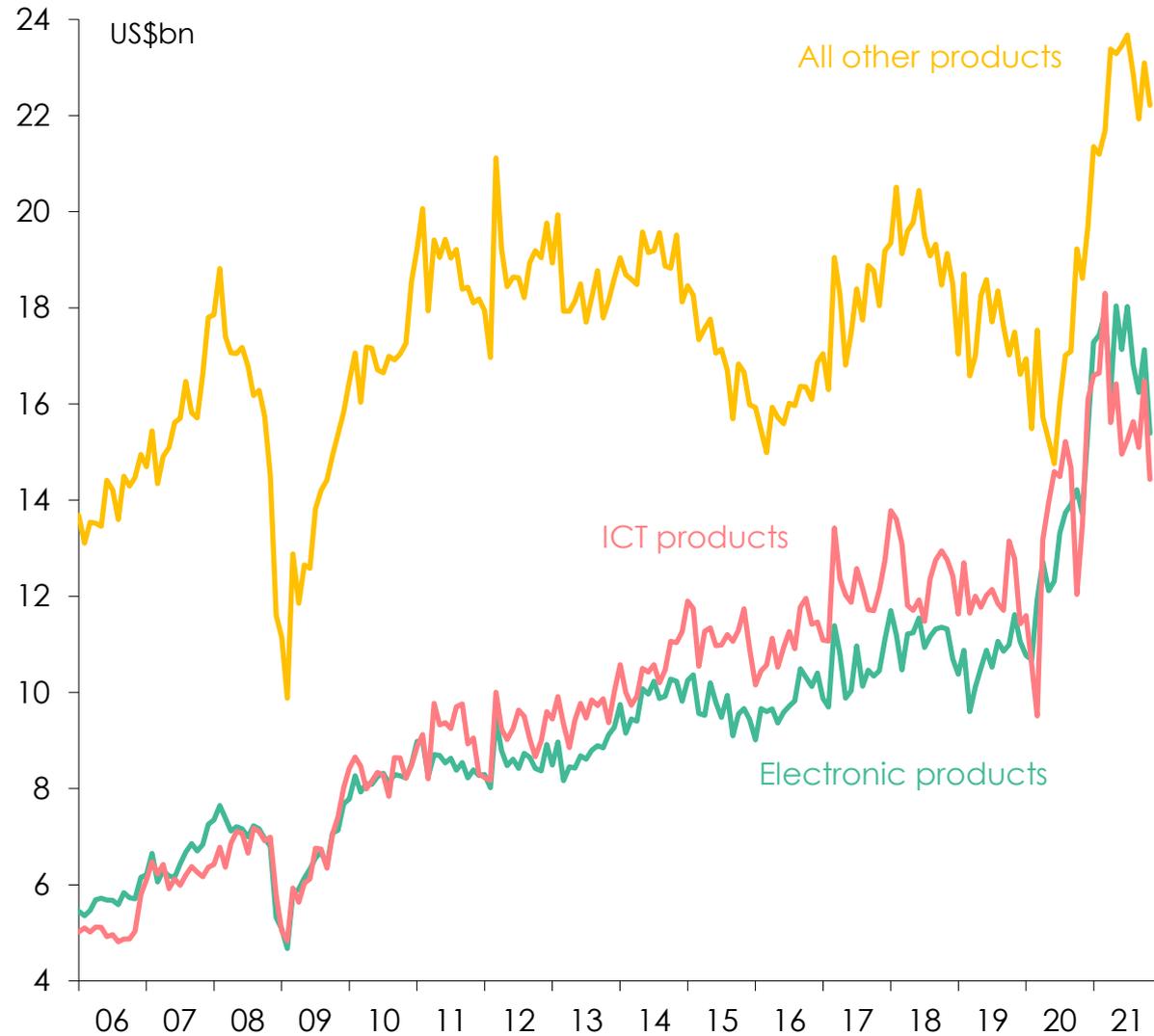
Semiconductor chip prices



Note: The IMF commodity price indices were re-based to 2016 = 100 (previously 2005) in October. The European natural gas price is the Netherlands TTF forward day ahead price, up to October; the November & December readings are derived by adjusting the October value for subsequent movements in the UK natural gas price (for which daily data are available). The Asian natural gas price is that of Indonesian LNG in Japan. Sources: [International Monetary Fund](#); [Freightos](#); [Drewry](#); [The Baltic Exchange](#); Refinitiv Datastream.

Export orders for Taiwanese ICT products fell in October suggesting semi-conductor industry supply chain problems aren't yet fully resolved

Taiwan export orders, by product

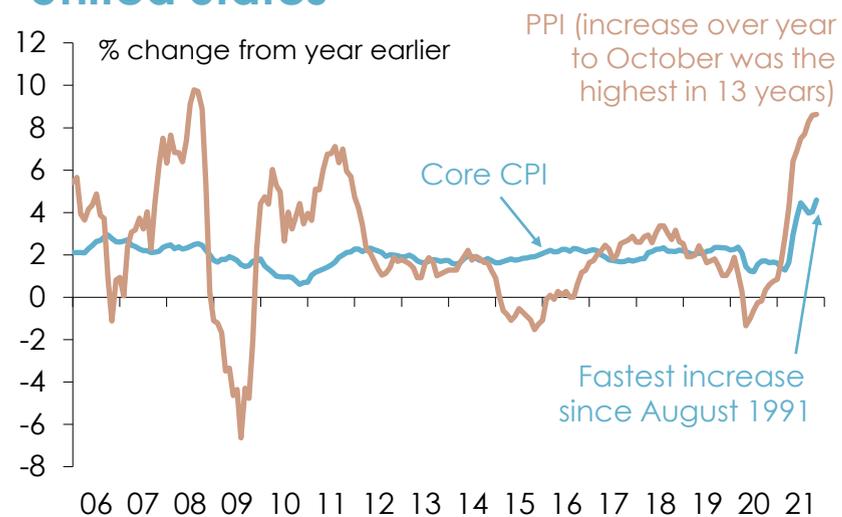


Note: Data have been seasonally adjusted by Corinna using Refinitiv Datastream. Latest data are for October. Source: Taiwan [Ministry of Economic Affairs](#). [Return to "What's New"](#).

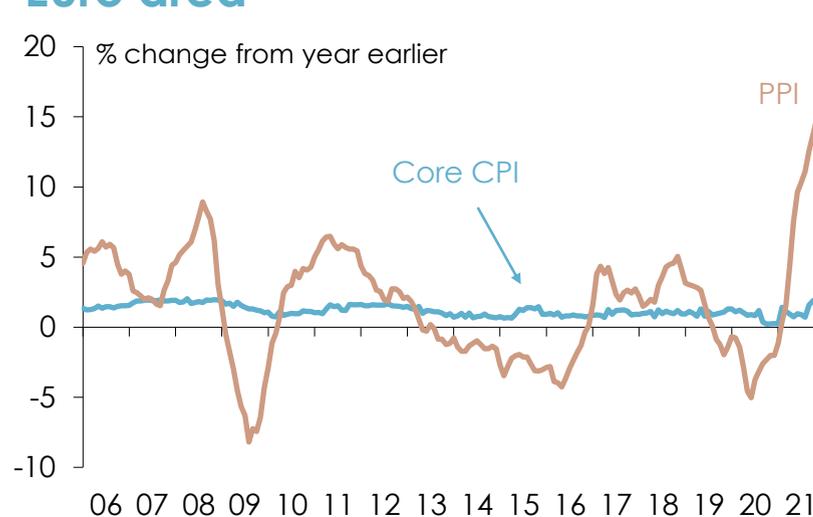
- ❑ Taiwan accounts for 63% of the US\$85bn global semi-conductor chip market (followed by Korea 18% and China 6%)
 - one Taiwanese company, Taiwan Semiconductor Manufacturing Co (TSMC) has 54% of the world market, and United Microelectronics Co (UMC) a further 7% (Samsung accounts for Korea's 18%)
- ❑ Semiconductor fabrication plants ("fabs") use very large amounts of water to rinse chips during their manufacture – a typical fab uses 7½-15 million litres of water daily (and water in Taiwan is very cheap, at less than US40¢/t)
- ❑ Taiwan had been experiencing its worst drought in 56 years, resulting in rationing of water supplies including to semi-conductor manufacturers
 - although recent heavy rainfalls appear to have broken the drought
- ❑ World-wide semi-conductor production has also been crimped by plant shutdowns in Vietnam, Malaysia and the Philippines due to covid-19 outbreaks, and by damage caused by a fire at a Japanese fab earlier this year and a storm at a Texas plant
- ❑ Shortages of semi-conductor chips have caused major headaches for the motor vehicle industry (which uses lots of them)
- ❑ Foreign orders for Taiwanese ICT products fell 12.4% in October, while orders for other electronic products fell 10.1%, more than reversing increases of 9.2% and 5.5%, respectively, in September
 - October orders were affected by "a lack of raw materials for some products" according to Taiwan's Ministry for Economic Affairs

Producer prices are surging in all major economies: but only in the US and the UK is this feeding into markedly higher core CPI inflation

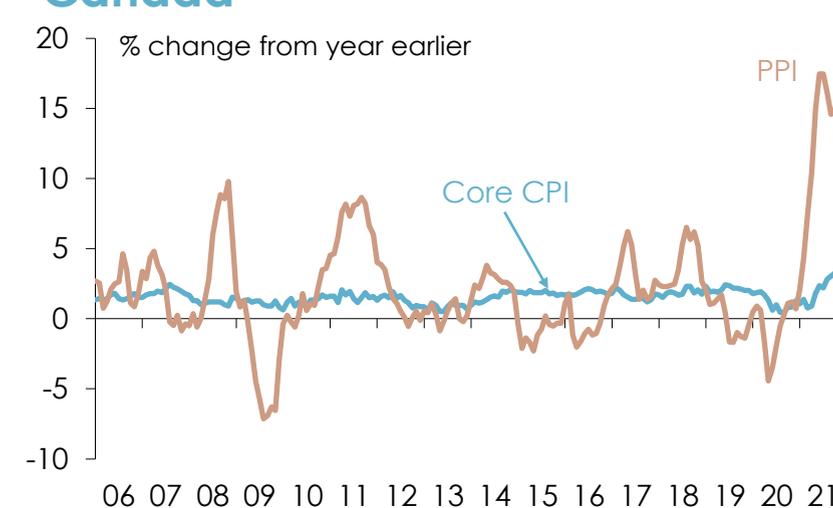
United States



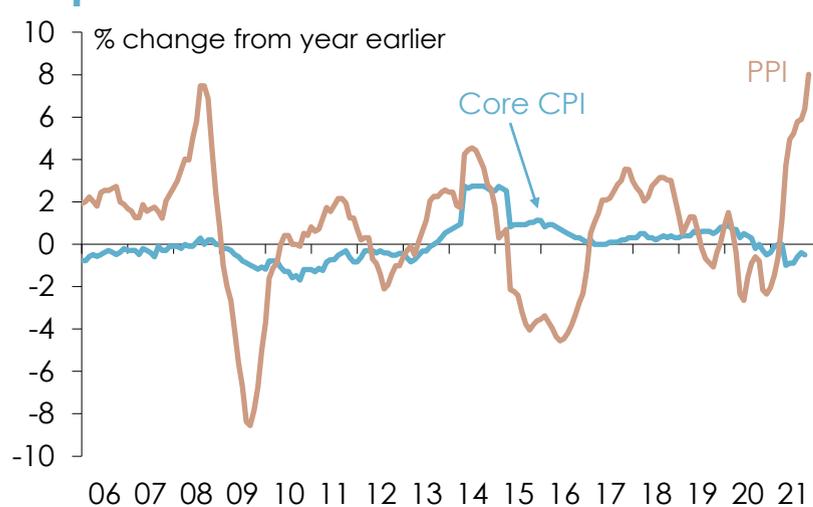
Euro area



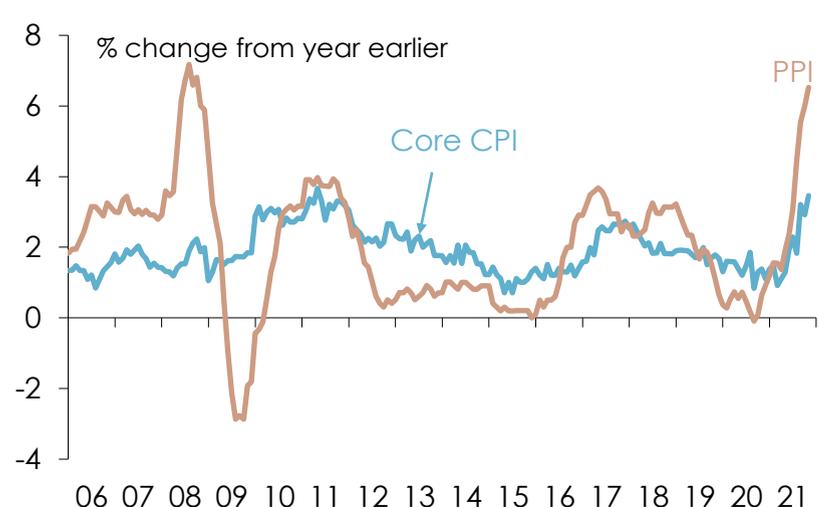
Canada



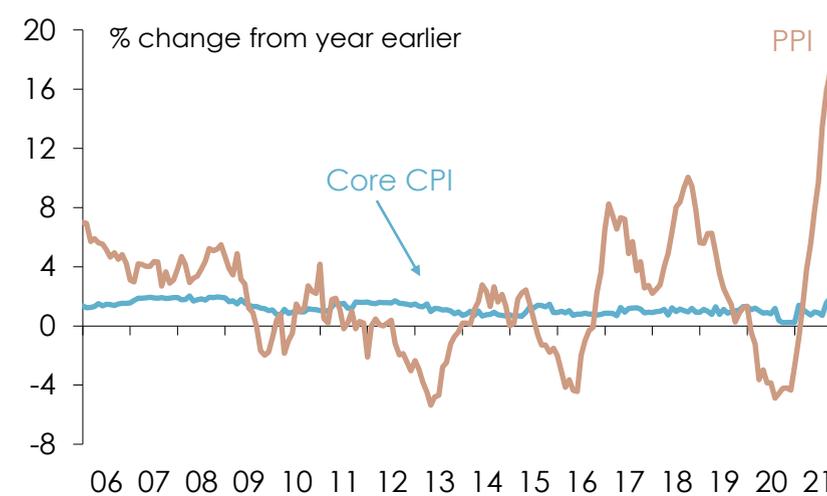
Japan



United Kingdom



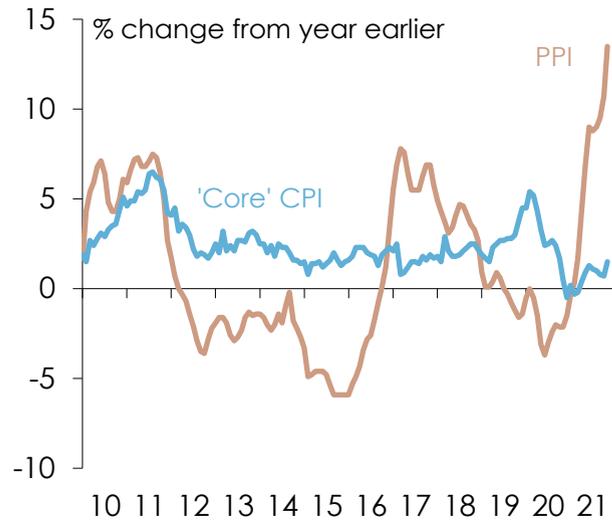
Sweden



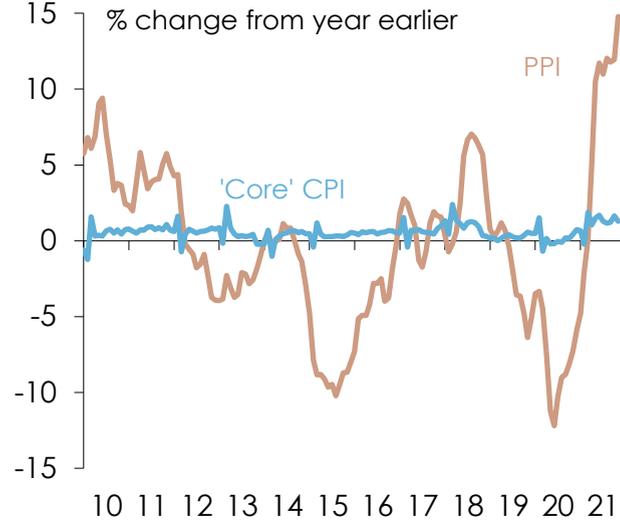
For a more detailed analysis of recent US inflation data see [slides 68-72](#). Sources: [US Bureau of Labor Statistics](#); [Statistics Bureau of Japan](#); [Eurostat](#); [UK Office for National Statistics](#); [Statistics Canada](#); [Statistics Sweden](#). [Return to "What's New"](#).

There's been very little pass-through of higher producer prices into 'core' consumer price inflation in Asia

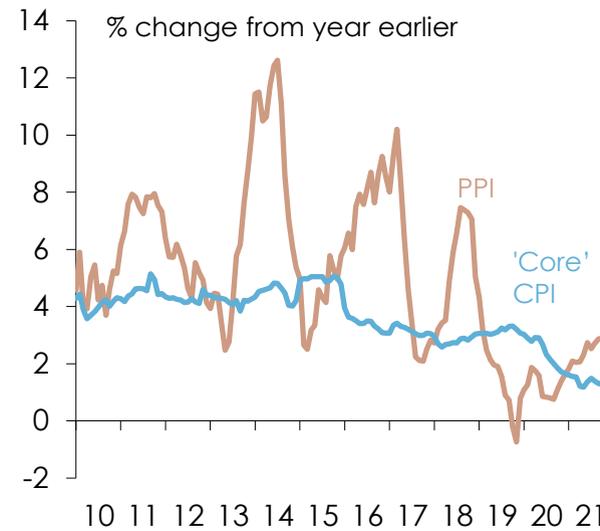
China



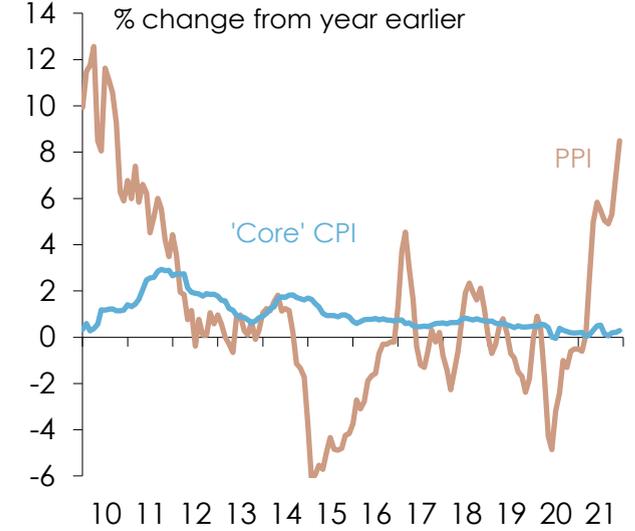
Taiwan



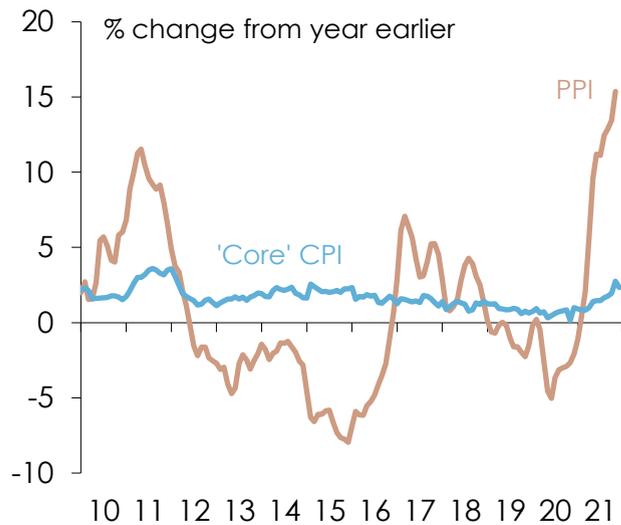
Indonesia



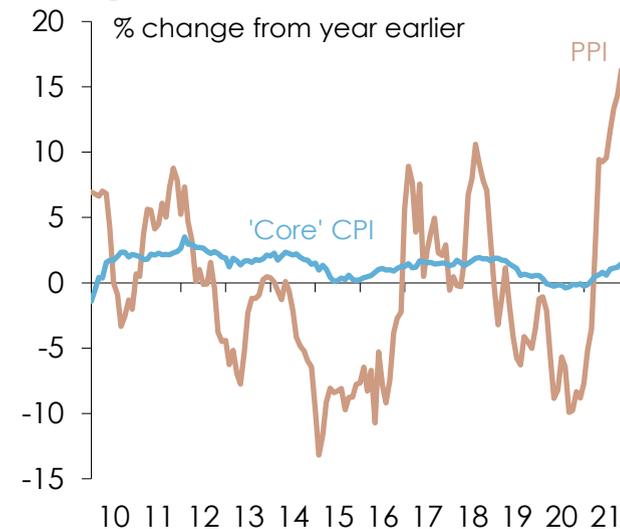
Thailand



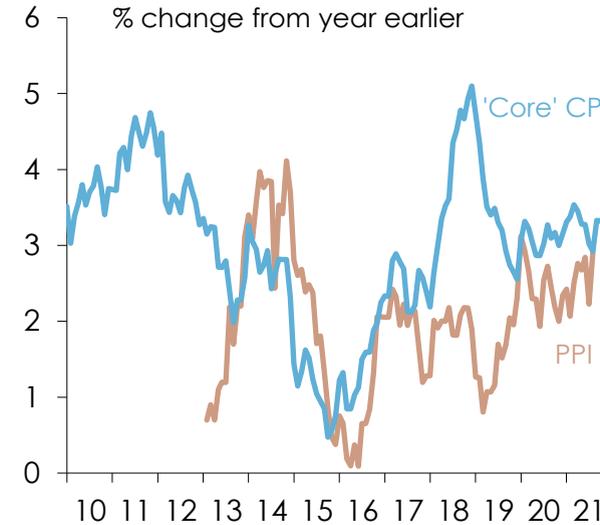
Korea



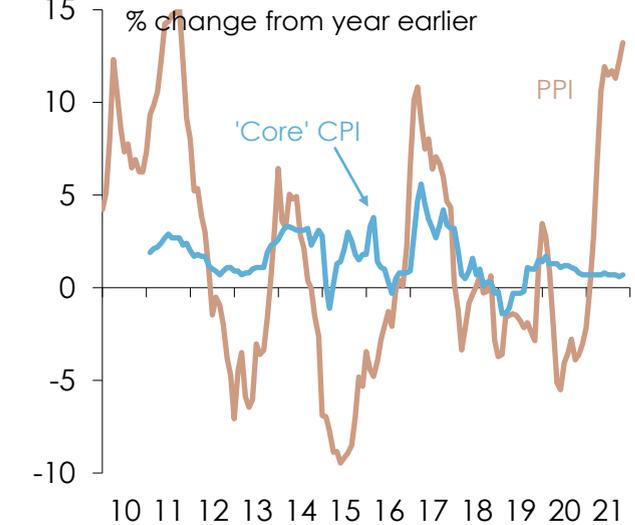
Singapore



Philippines



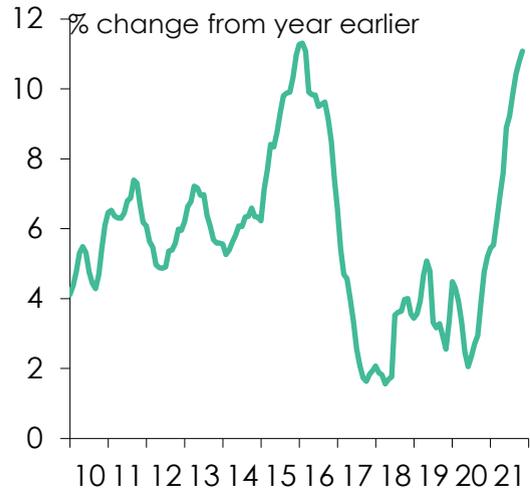
Malaysia



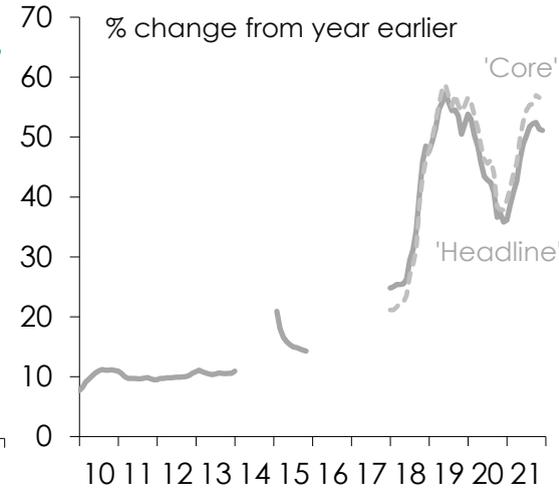
Note: 'Core' CPIs measure different things in different Asian economies – see footnotes to [slide 51](#). Sources: [China National Bureau of Statistics](#); [Statistics Korea](#); [Bank of Korea](#); [Taiwan Statistical Bureau](#); [Singstat](#); [Monetary Authority of Singapore](#); [Statistics Indonesia](#); [Philippine Statistics Authority](#); [Thailand Bureau of Trade and Economic Indices](#); [Department of Statistics Malaysia](#). [Return to "What's New"](#).

Consumer price inflation is rising in many other 'emerging' markets

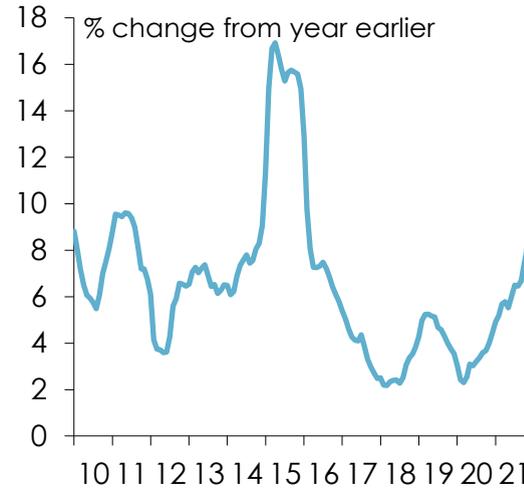
Brazil



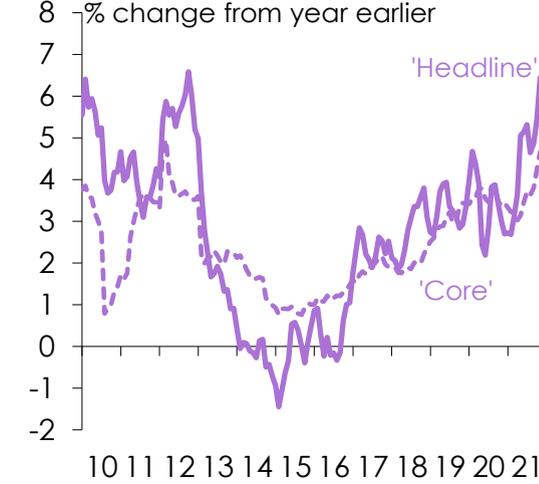
Argentina



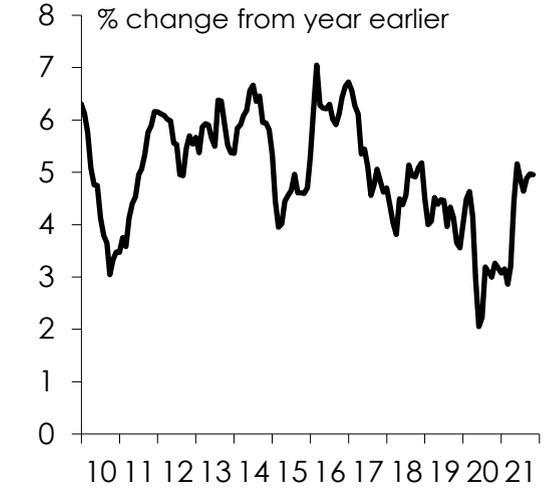
Russia



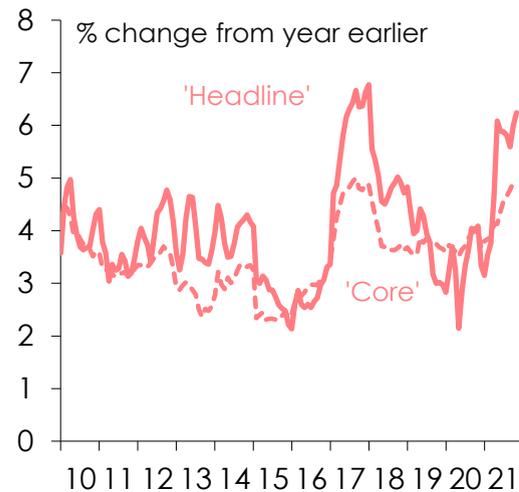
Hungary



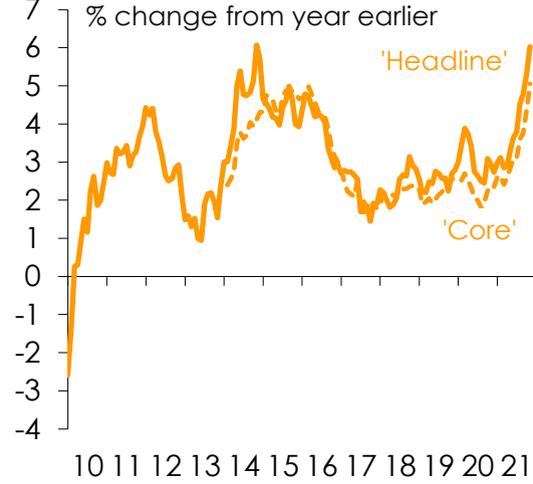
South Africa



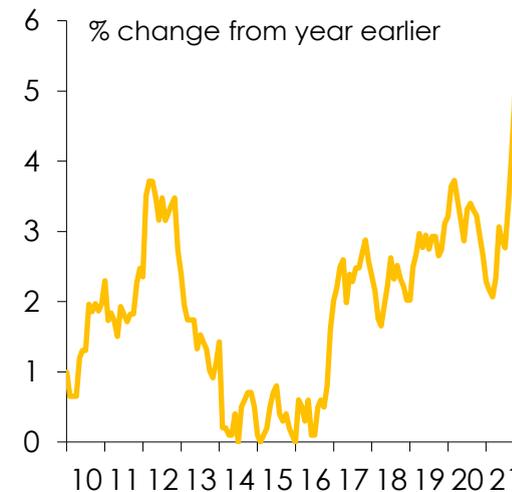
Mexico



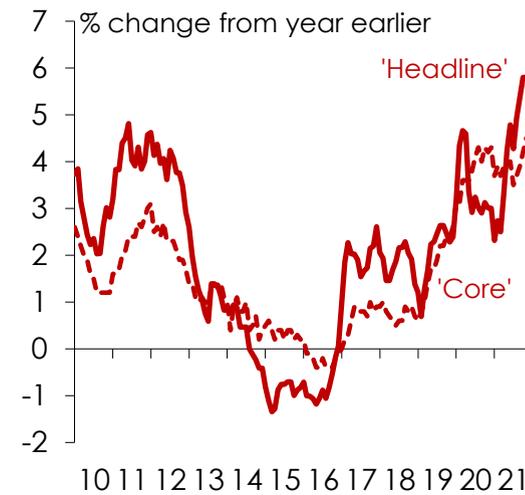
Chile



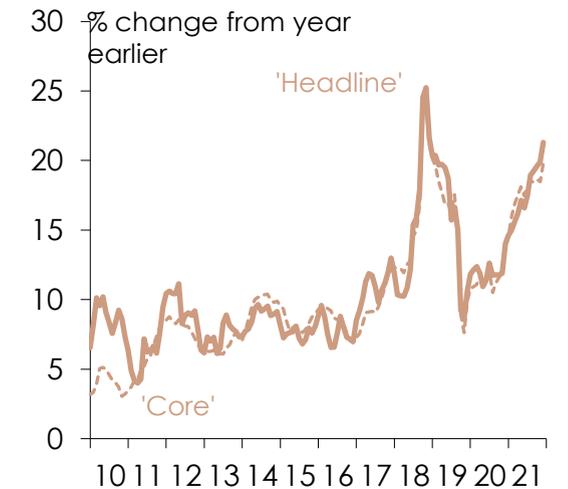
Czech Republic



Poland



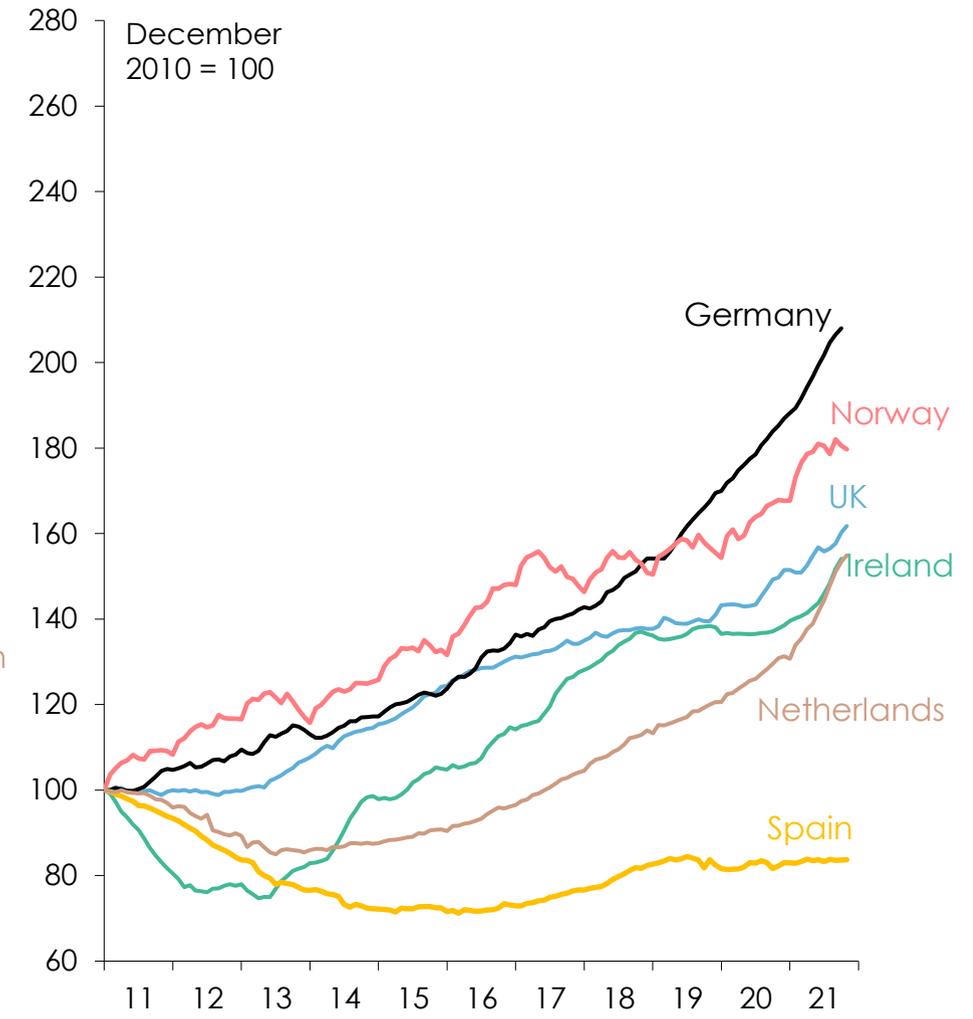
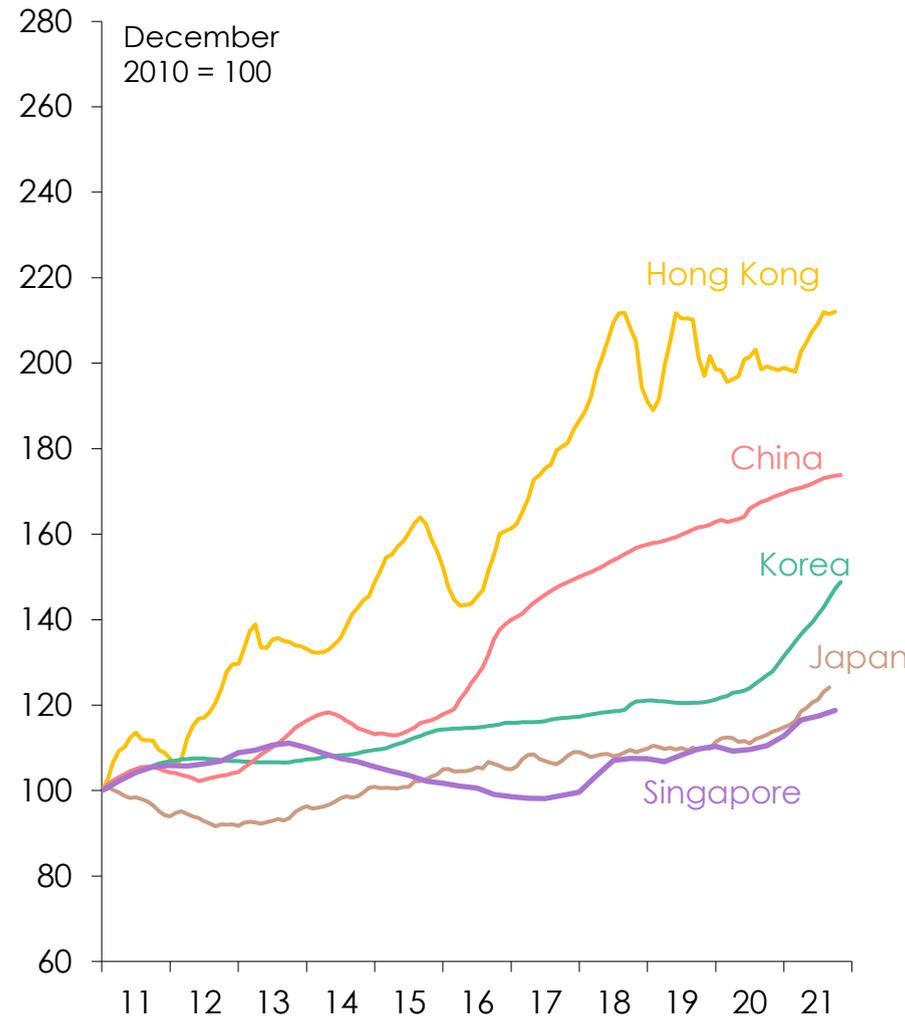
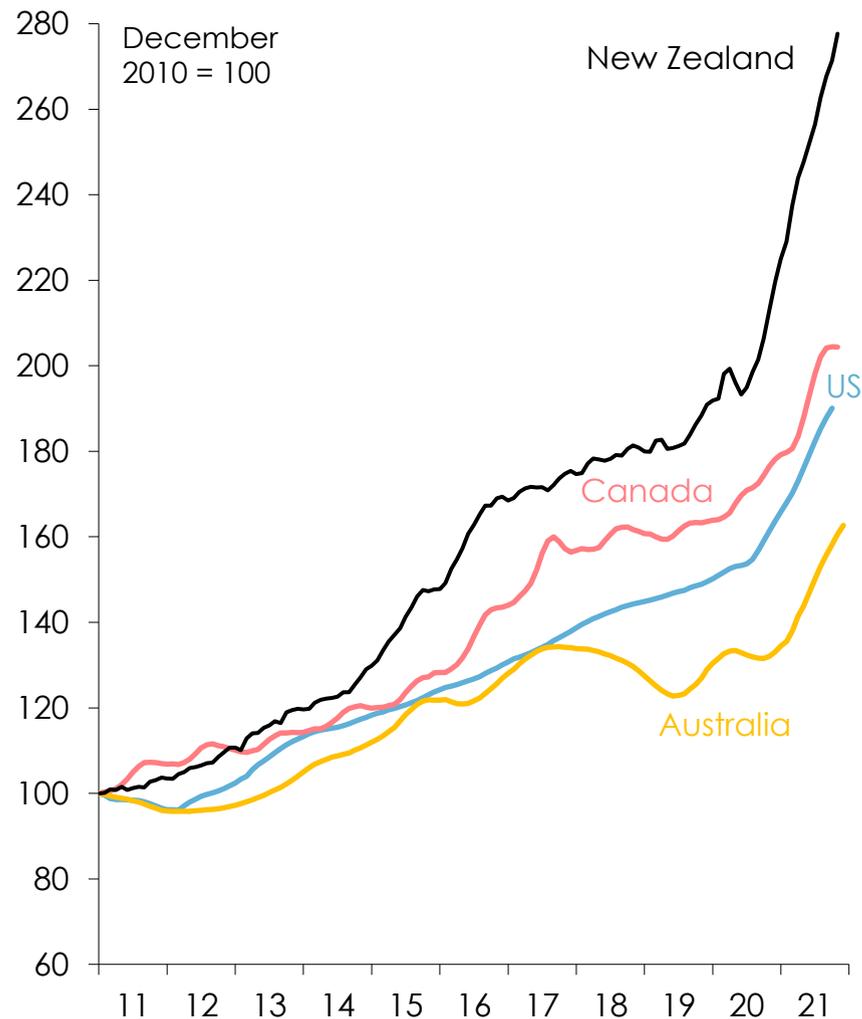
Turkey



Sources: [Instituto Brasileiro de Geografia e Estatística](#); [Instituto Nacional de Estadística y Geografía](#) (Mexico); [Instituto Nacional de Estadística y Censos](#) (Argentina); [Instituto Nacional de Estadísticas](#) (Chile); [Rosstat](#); [Český statistický úřad](#) (Czechia); [Központi Statisztikai Hivatal](#) (Hungary); [Główny Urząd Statystyczny](#) (Poland); [Statistics South Africa](#); [Turkstat](#). [Return to "What's New"](#).

Residential property prices have been remarkably resilient in most countries thanks to record-low interest rates and ample supply of credit

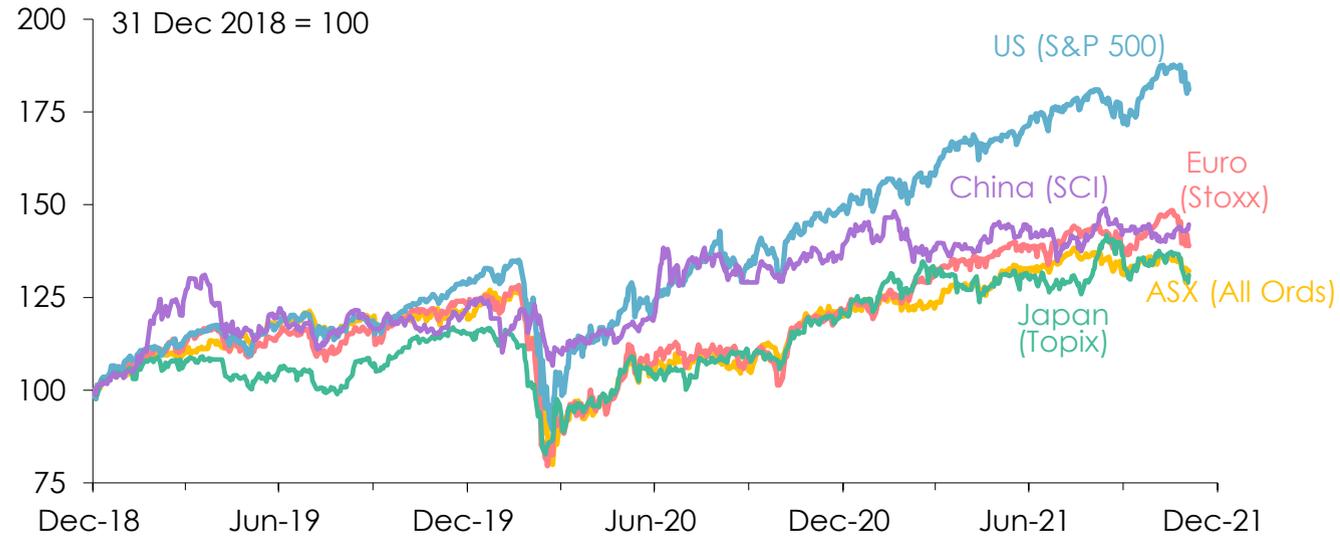
House price indices



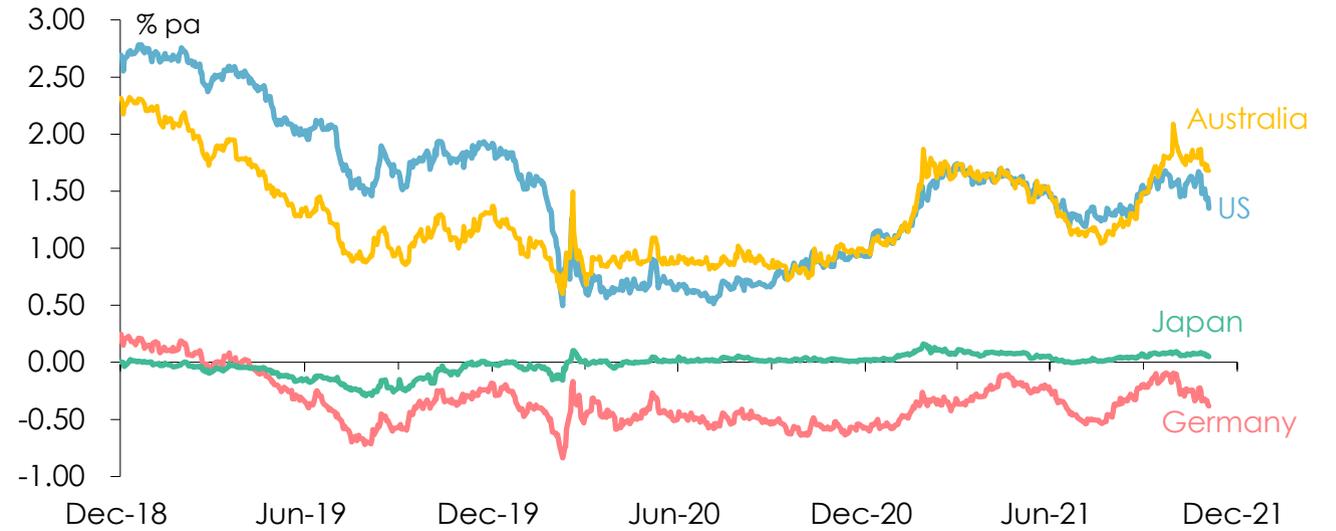
Note: House price indices shown in these charts are those published by [S&P-CoreLogic Case Shiller national](#) (United States); [Teranet-National Bank](#) (Canada); [CoreLogic](#) (Australia); [Real Estate Institute of New Zealand](#); [China Index Academy](#); [Japan Real Estate Institute](#) (Tokyo condominiums); [Kookmin Bank house price index](#) (Korea); [Centaline Centa-City Index](#) (Hong Kong); [Urban Redevelopment Authority](#) (Singapore); [Europace hauspreisindex](#) (Germany); [Halifax house price index](#) (UK); [Central Statistics Office RPII](#) (Ireland); [Fotocasa real estate index](#) (Spain); [Statistics Netherlands](#); [Eiendom Norge](#) (Norway). These indices have been chosen for their timeliness and widespread recognition: they do not necessarily all measure the same thing in the same way. For more comprehensive residential property price data see the quarterly database maintained by the [Bank for International Settlements](#). [Return to "What's New"](#).

Stocks and bond yields declined further this week, and the yen rose, in response to concerns about the possible effects of the 'omicron variant'

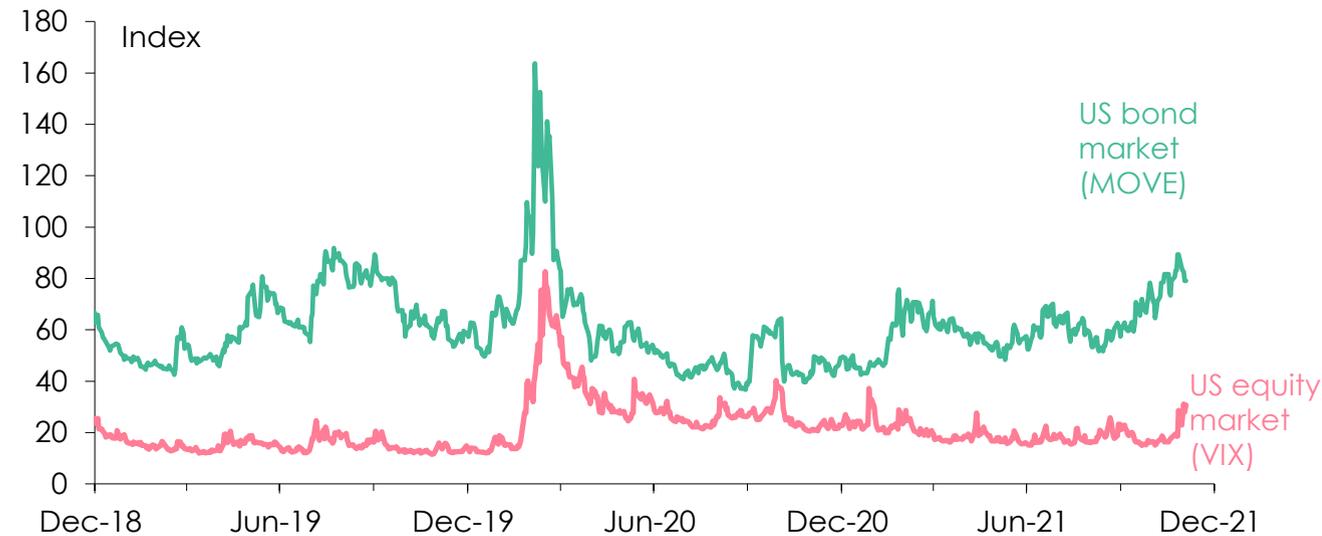
Stock markets



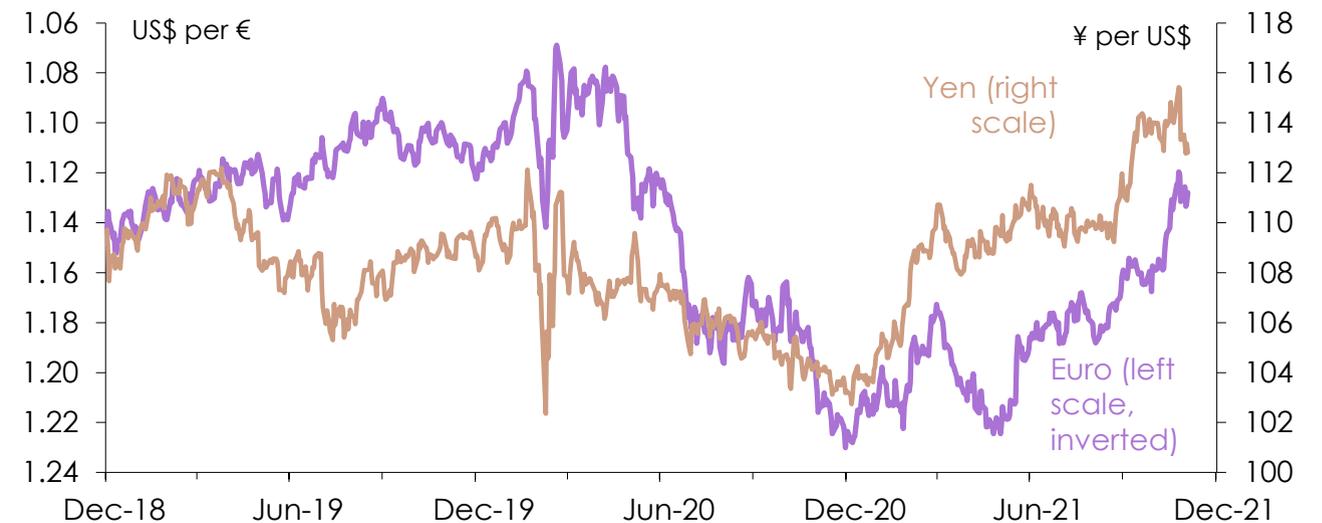
10-year bond yields



Measures of market volatility



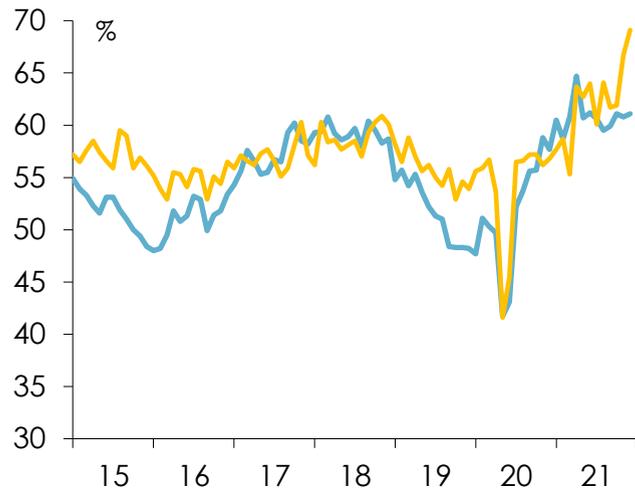
US dollar vs euro and yen



Source: Refinitiv Datastream. Data up to 3rd December. [Return to "What's New"](#).

PMIs for November suggest continued growth in manufacturing activity in major economies in November and recovery in services

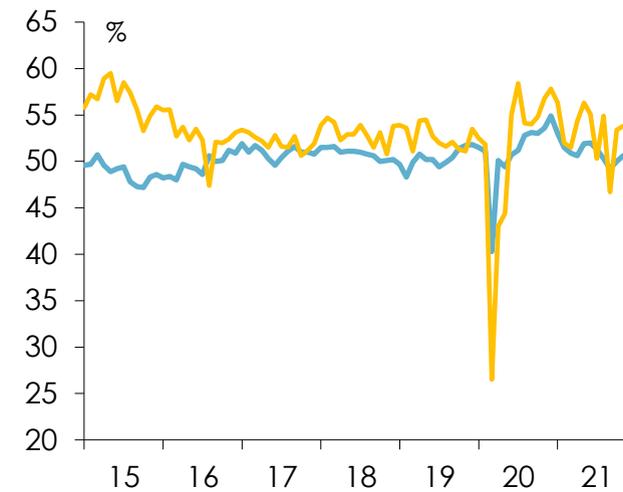
US



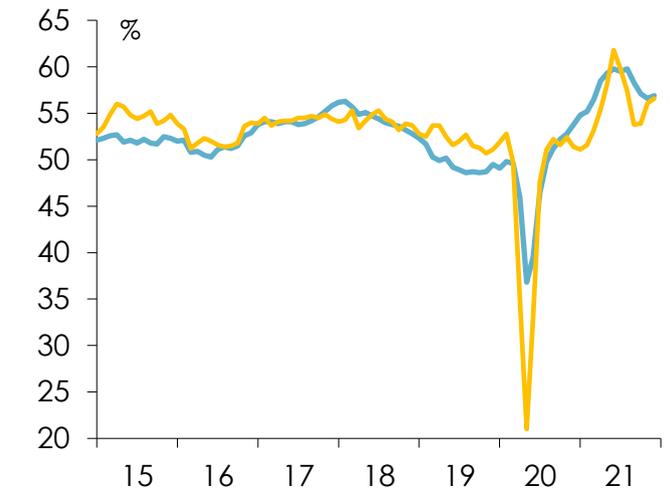
Euro area



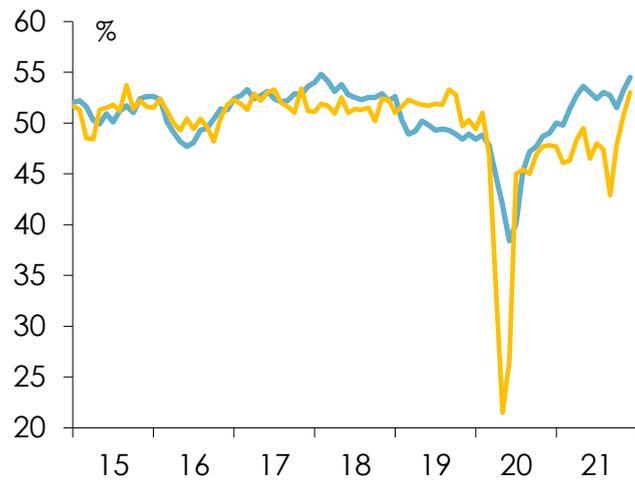
China



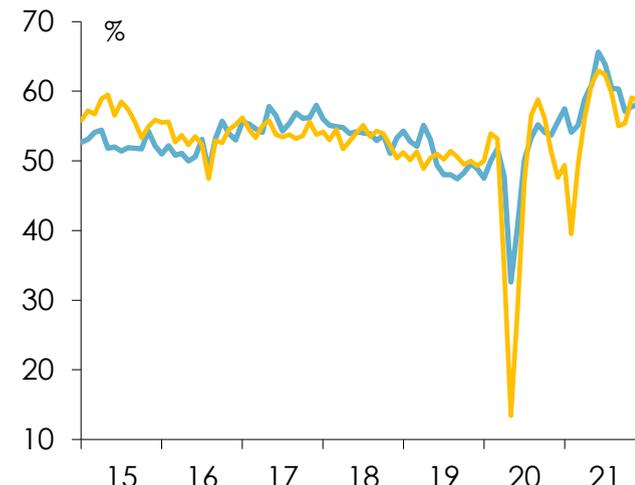
Developed markets



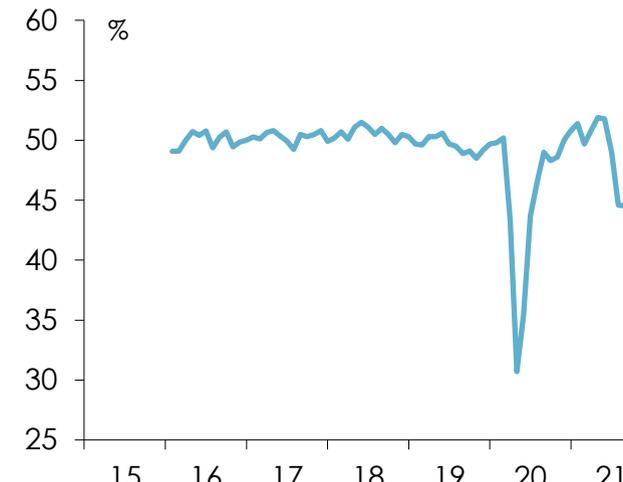
Japan



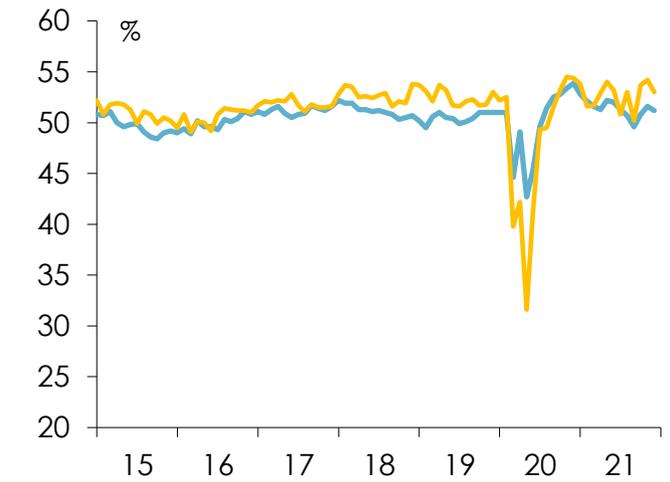
UK



ASEAN



Emerging markets



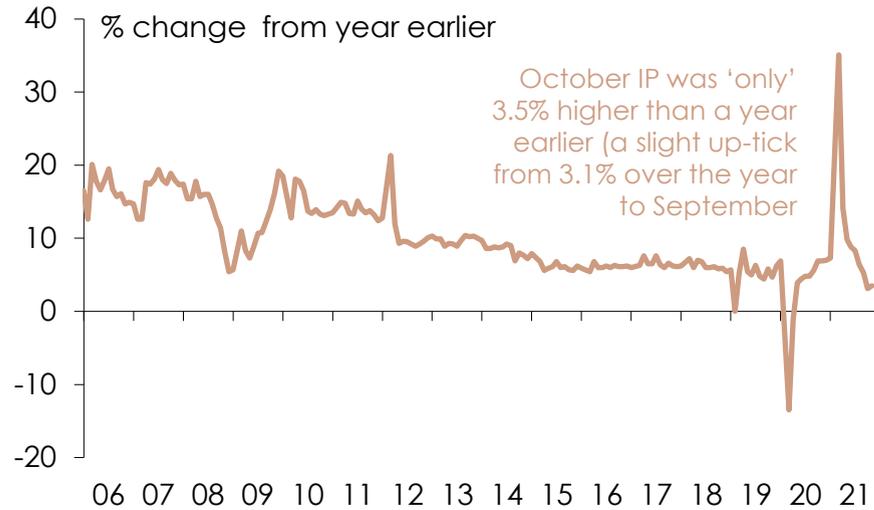
— Manufacturing

— Services

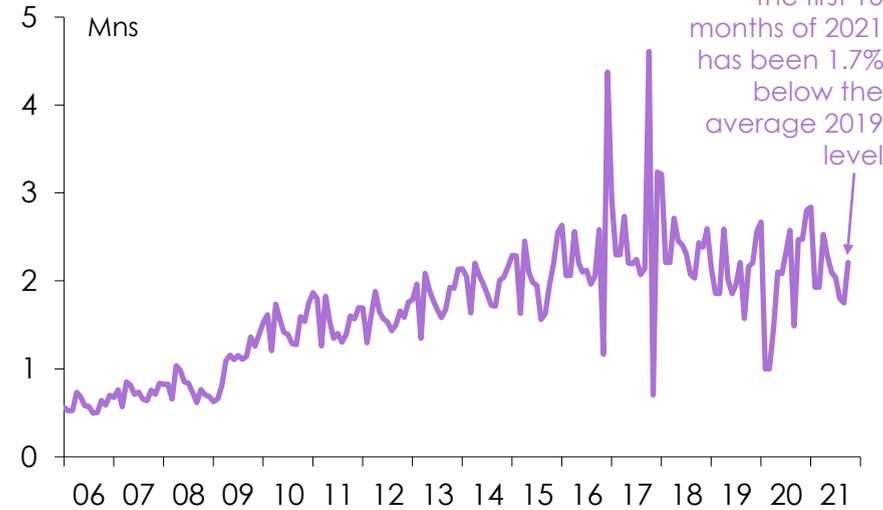
Note: Purchasing Managers' Indexes (PMIs) are derived from surveys of senior executives, who are asked to report whether various dimensions of business activity recorded an increase, decrease or no change compared with the previous month. Latest data for Japan, the euro area and the UK are 'flash' estimates for November; all others are for October. A reading of 50 indicates an overall increase cf. the previous month, and a reading of less than 50 indicates a decrease. See also PMIs for other Asia-Pacific economies on [slide 50](#). Sources: [US Institute for Supply Management](#); [IHS Markit](#); JP Morgan; [Caixin](#); Refinitiv Datastream. [Return to "What's New"](#).

China's production indicators were mostly a bit stronger in October than in September, thanks to exports, but are still weak by historical standards

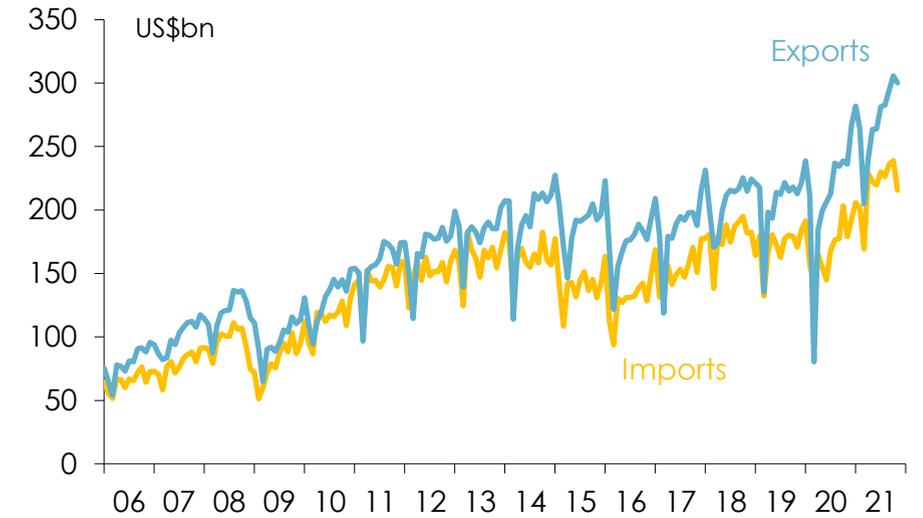
Industrial production



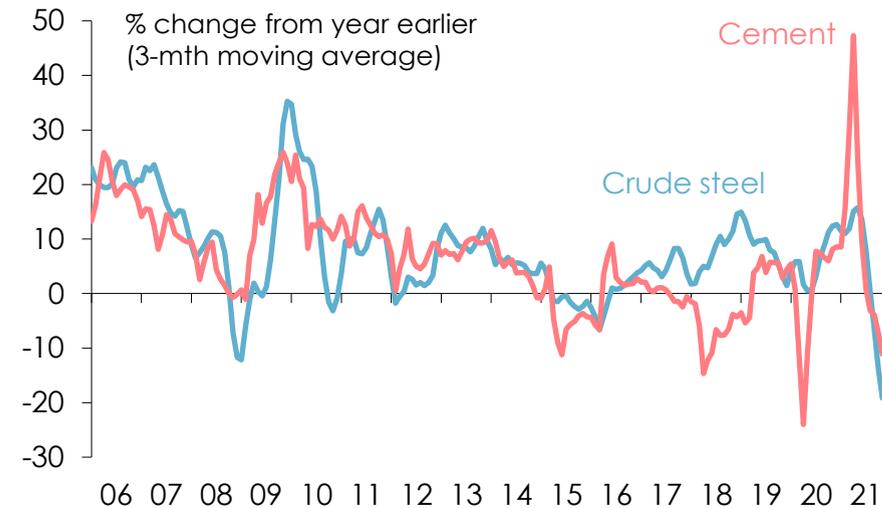
Motor vehicle production



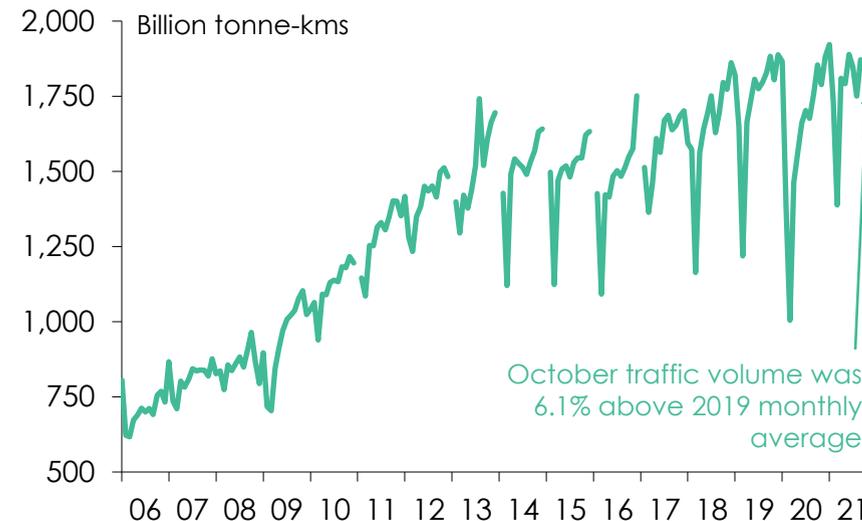
Merchandise trade



Steel and cement production



Freight traffic volumes



Merchandise trade balance



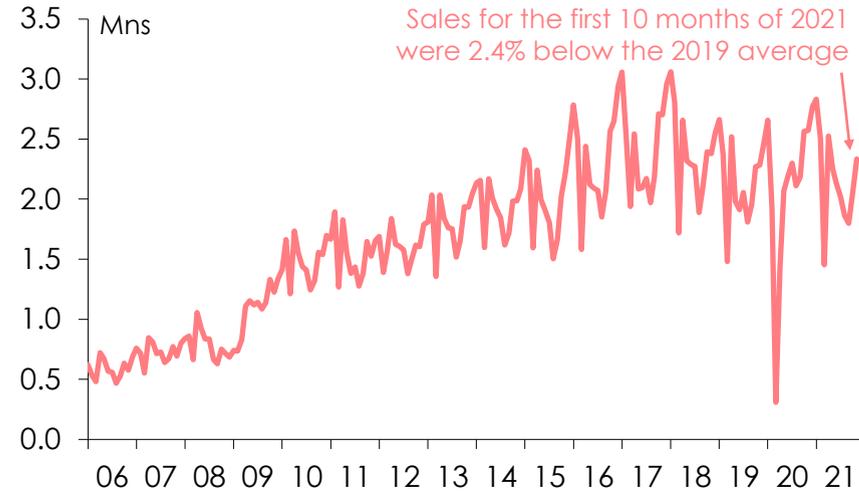
Note: Latest data are for October. Sources: [China National Bureau of Statistics](#); [China Association of Automobile Manufacturers](#); [China General Administration of Customs](#). [Return to "What's New"](#).

The 'demand' side of China's economy – and in particular the property construction sector – continued to look soft in October

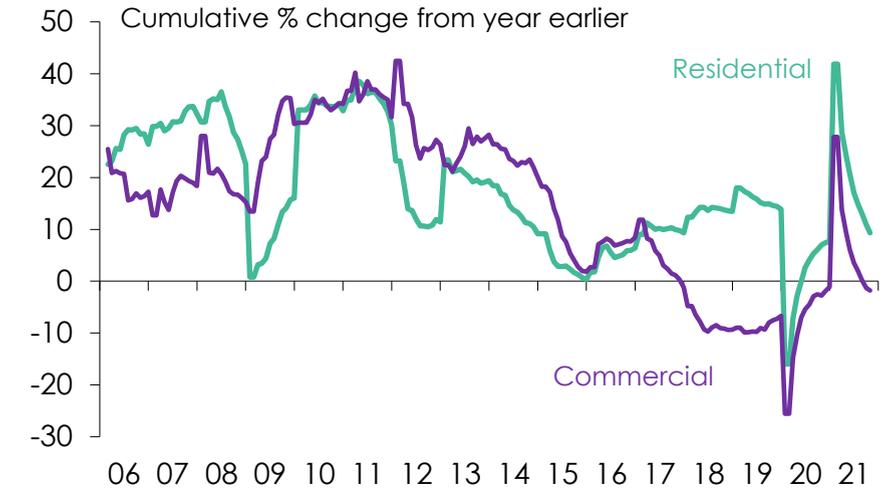
Consumer sentiment



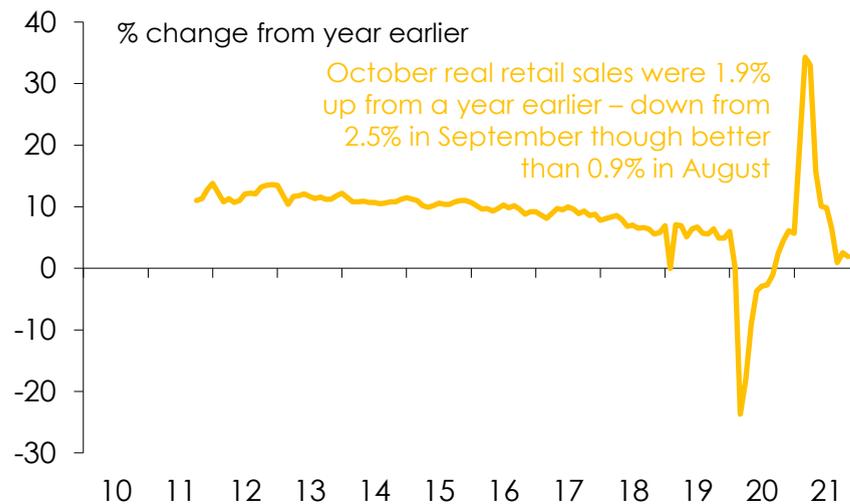
Motor vehicle sales



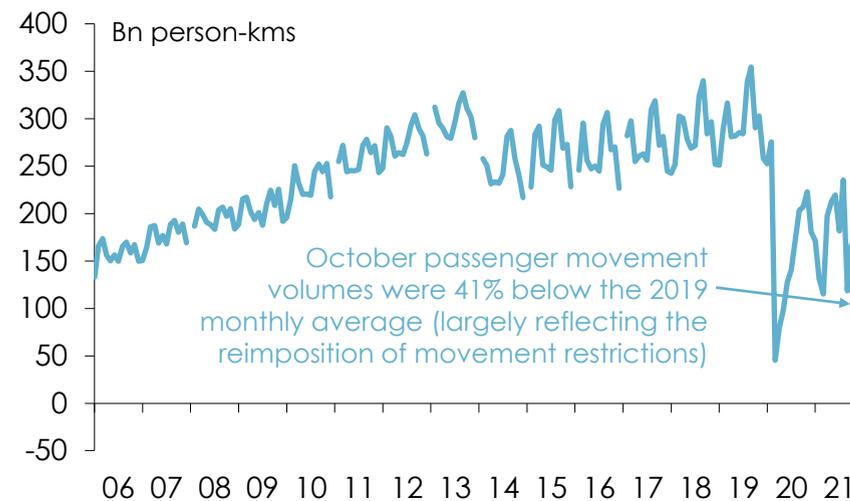
Real estate investment



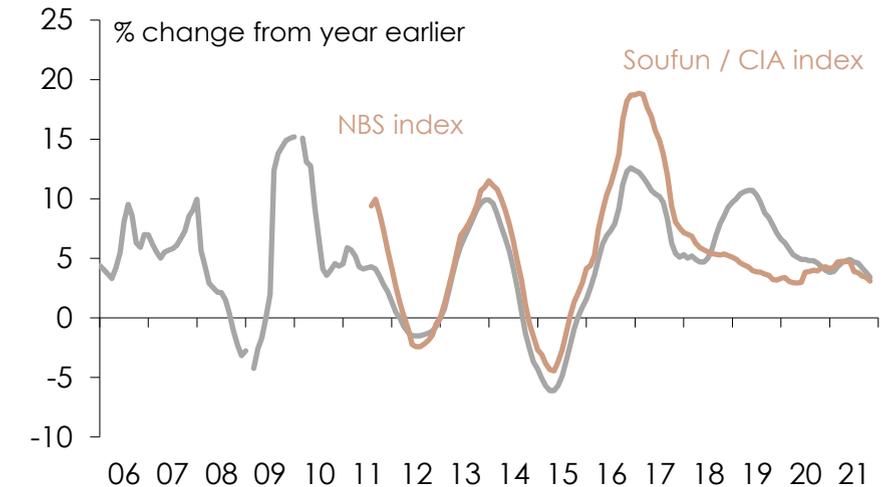
Volume of retail sales



Passenger traffic volumes



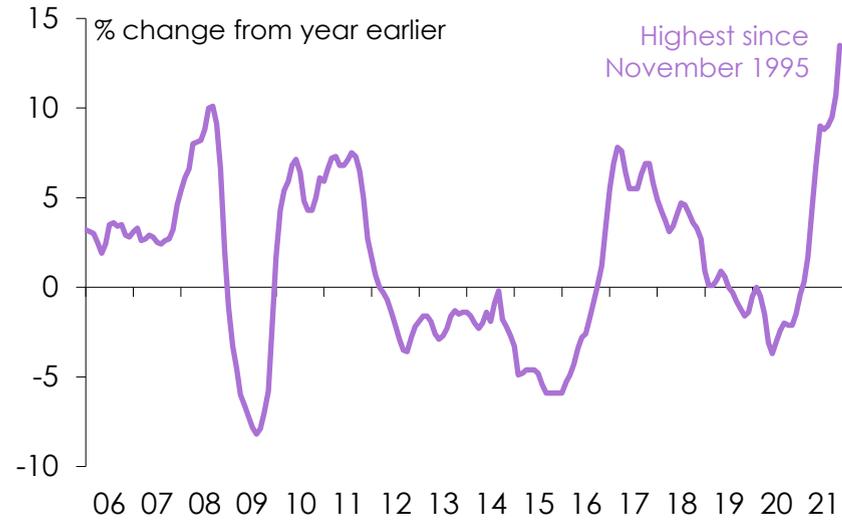
Residential real estate prices



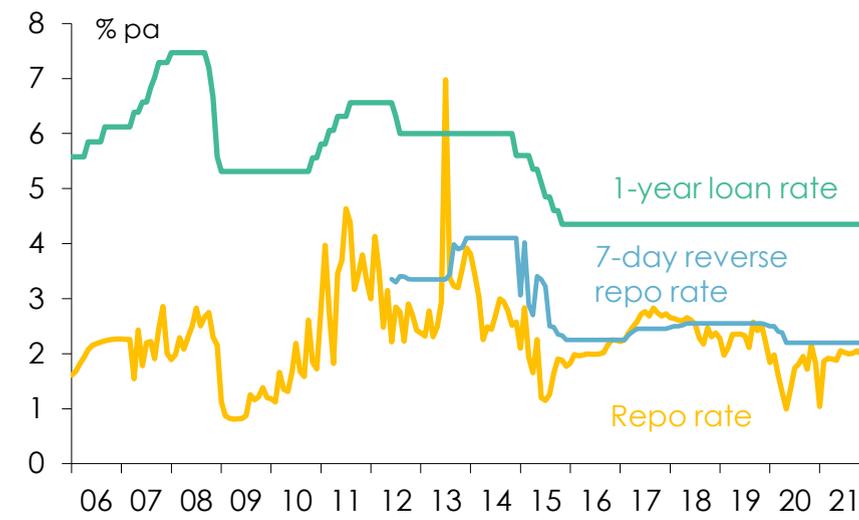
Sources: [China National Bureau of Statistics](#); [China Association of Automobile Manufacturers](#); [China Index Academy](#) (CIA). Latest data are for October, except for consumer sentiment which is September. [Return to "What's New"](#).

Producer price inflation is at a record high, and consumer price inflation though still low is creeping up – while monetary policy remains unchanged

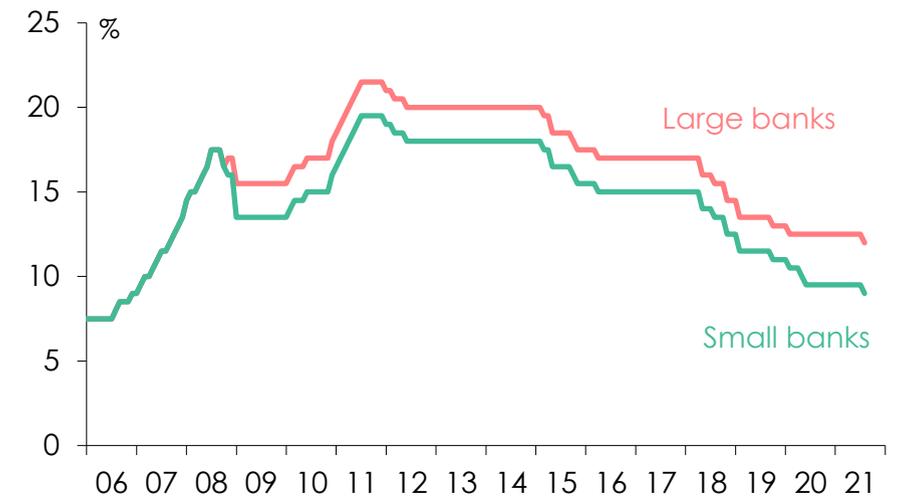
Producer prices



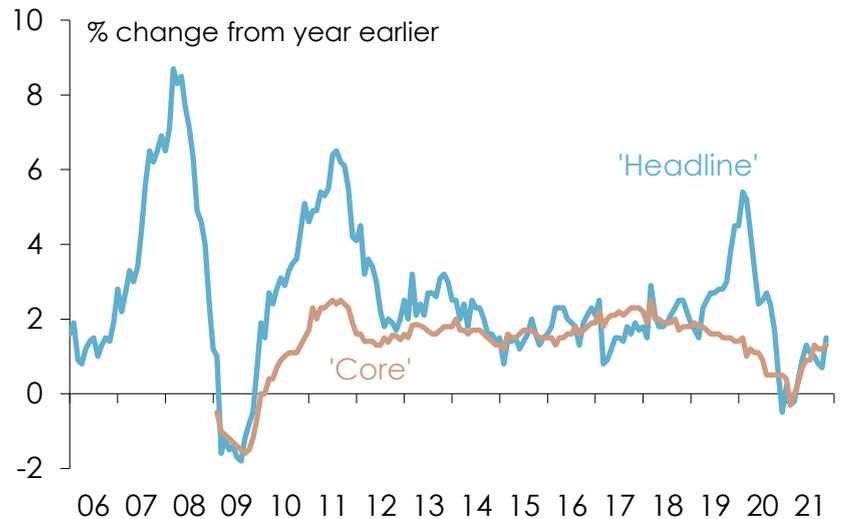
PBoC policy interest rates



Bank reserve requirement ratios



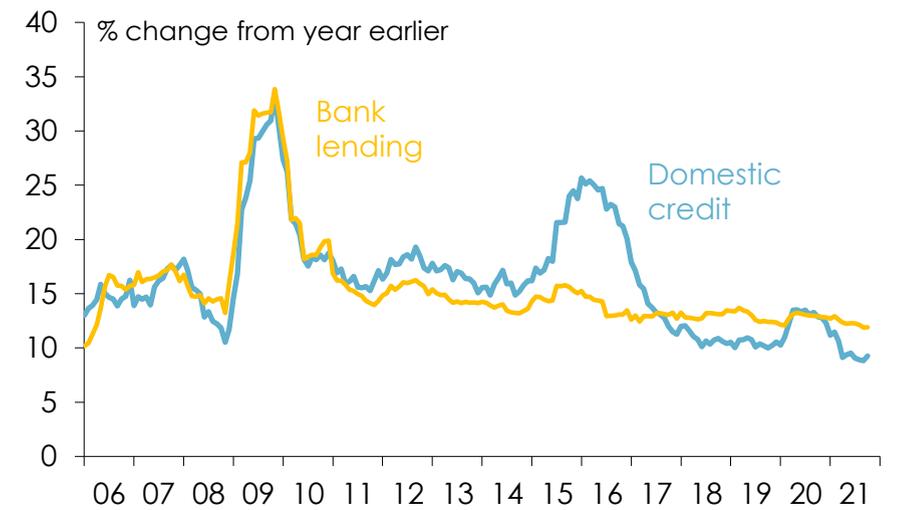
Consumer prices



Market interest rates



Credit growth

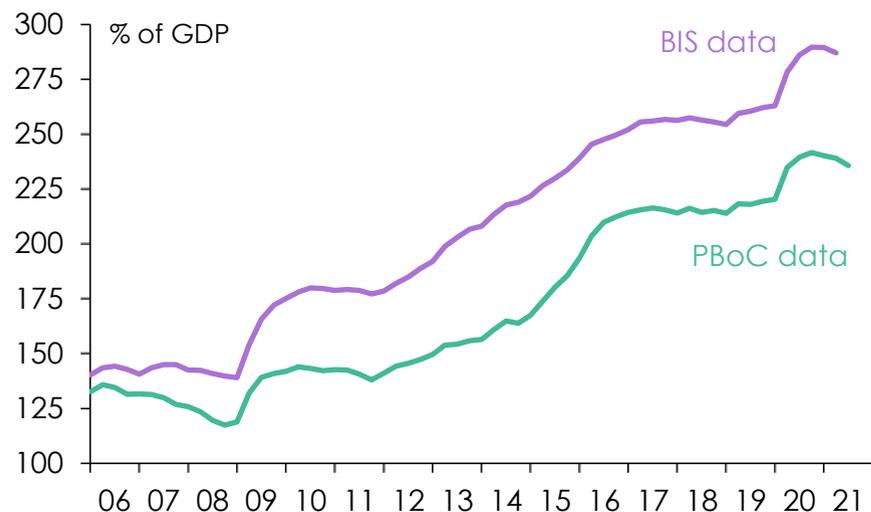


Note: 'SHIBOR' is the Shanghai Inter-Bank Offered Rate. Latest inflation and credit data are for October.

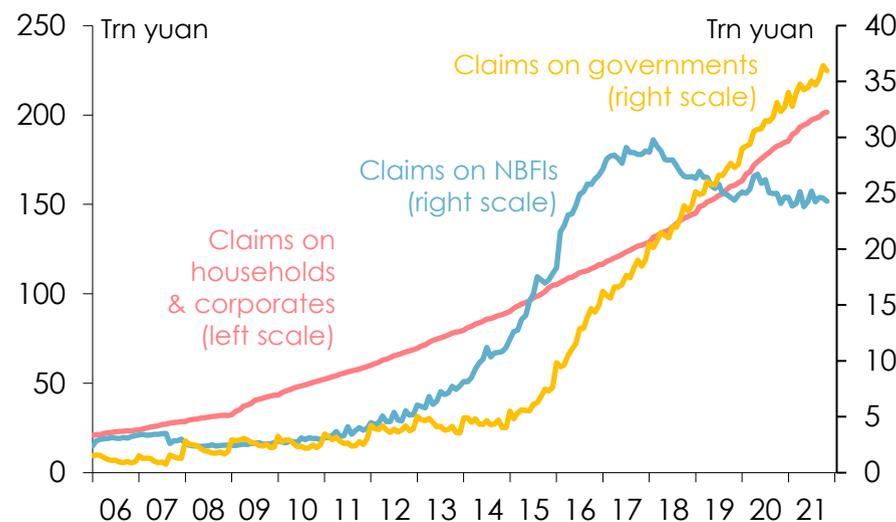
Sources: [China National Bureau of Statistics](#); Refinitiv Datastream; [People's Bank of China](#). [Return to "What's New"](#).

The Chinese banking system's risk profile has increased significantly over the past decade – particularly on the liabilities side of its balance sheet

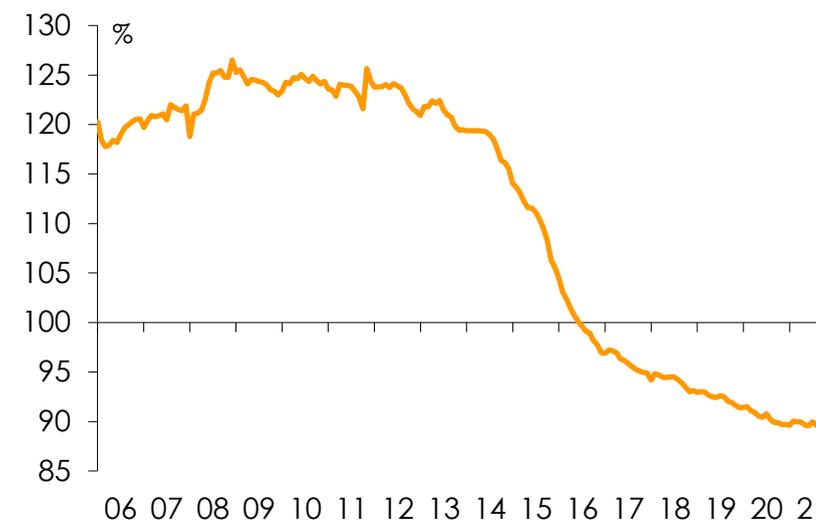
Credit outstanding as a pc of GDP



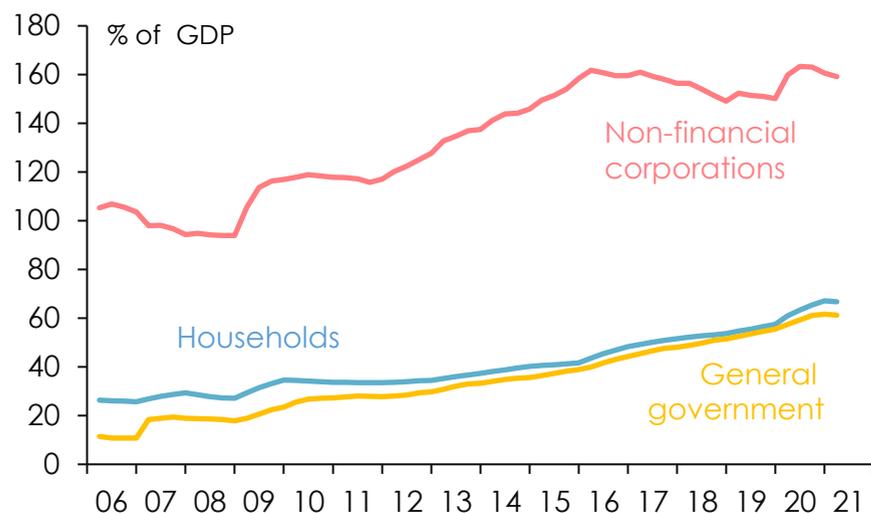
Banks' assets



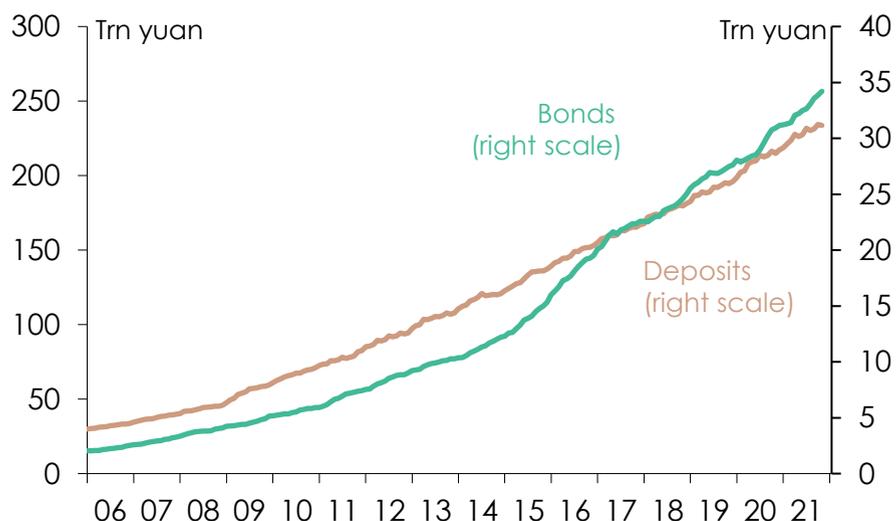
Banks' deposits-to-loans ratio



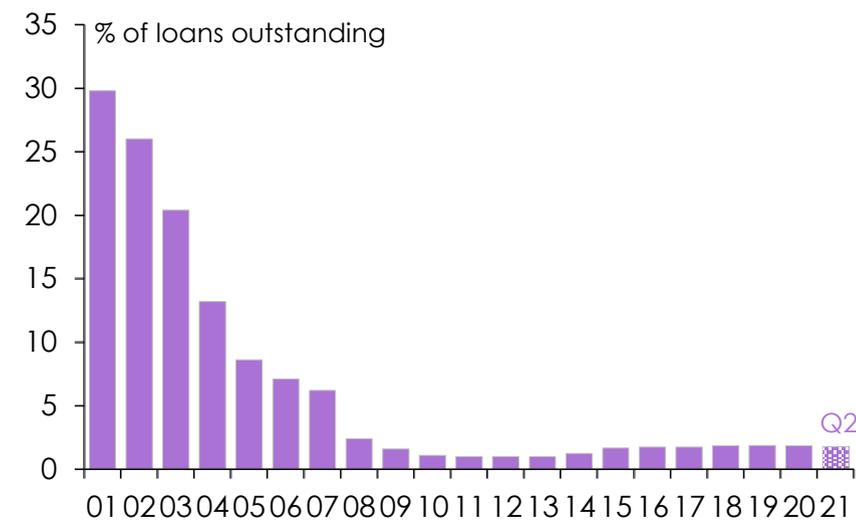
Credit outstanding by sector



Banks' liabilities



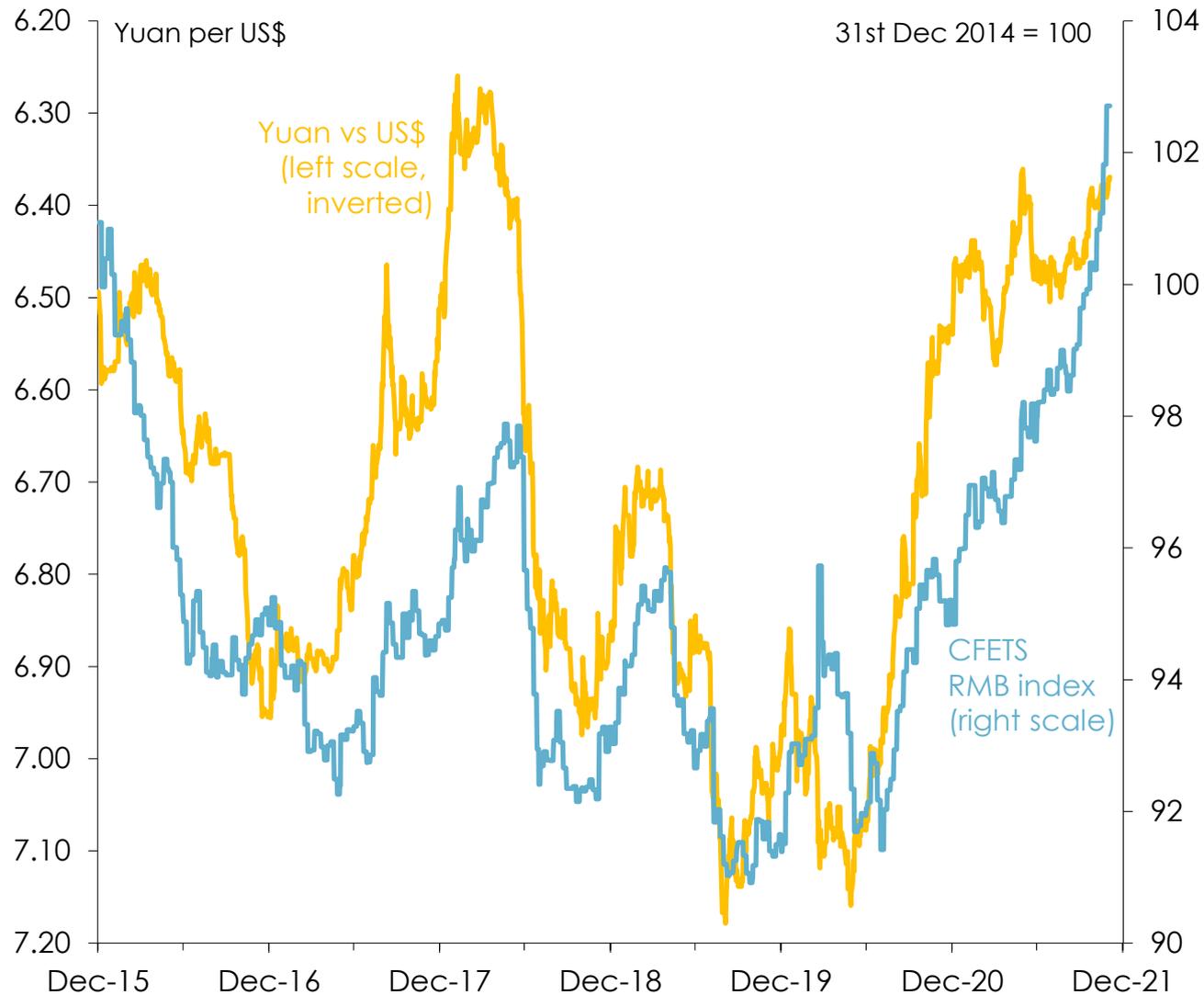
Banks NPLs – official estimates



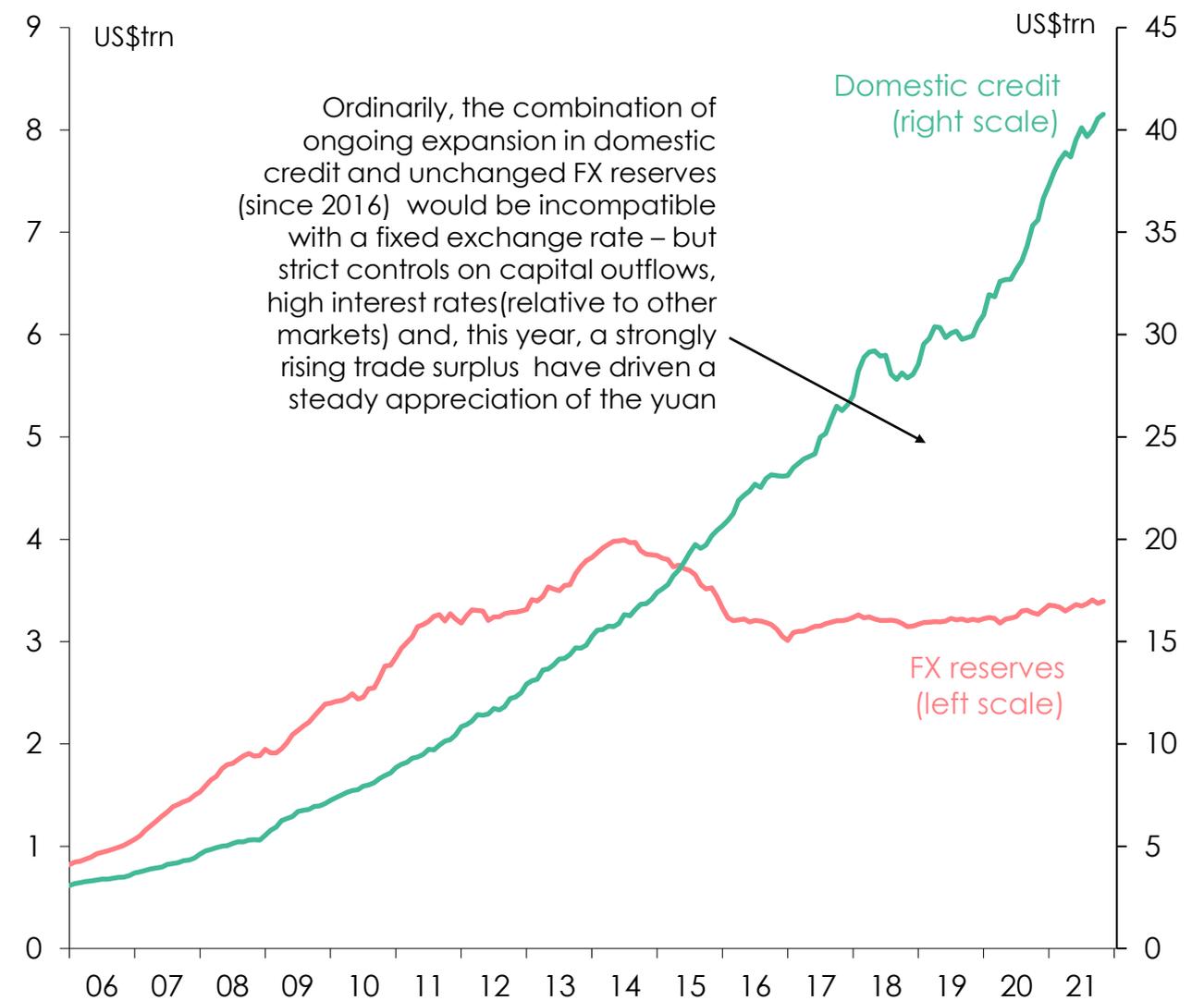
Sources: [People's Bank of China](#); [Bank for International Settlements](#); [China Banking and Insurance Regulatory Commission](#). [Return to "What's New"](#).

The yuan rose 0.4% against the dollar this week and 0.9% in trade-weighted terms, for gains of 2.7% and 8.3% so far this year

Chinese renminbi vs US\$ and trade-weighted index



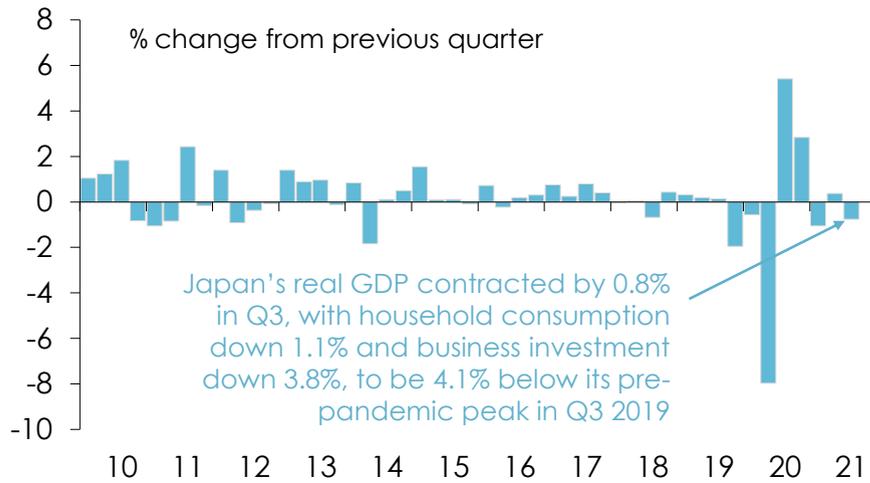
FX reserves and domestic credit



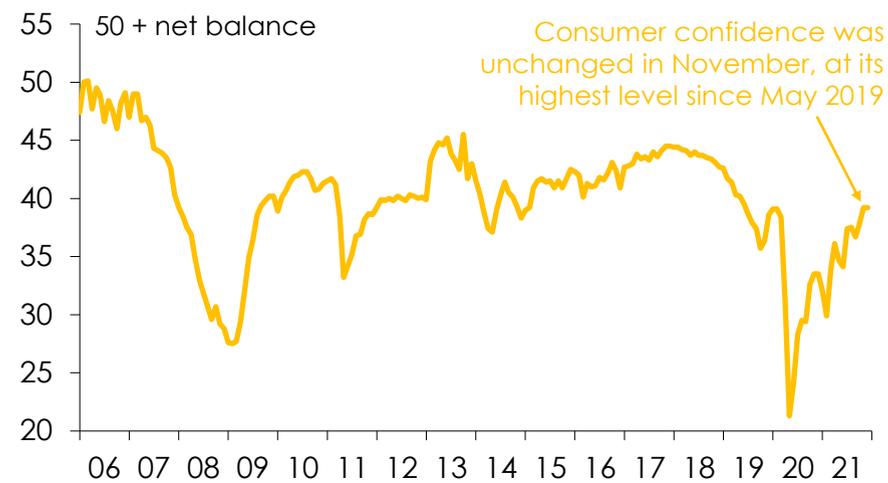
Sources: Refinitiv Datastream; China Foreign Exchange Trading System; People's Bank of China. Exchange rates up to 3rd December; FX reserves and credit data are up to October. [Return to "What's New"](#).

In Japan, employment dropped in October for the third month in a row, but so did labour force participation, so the unemployment rate also fell, to 2.7%

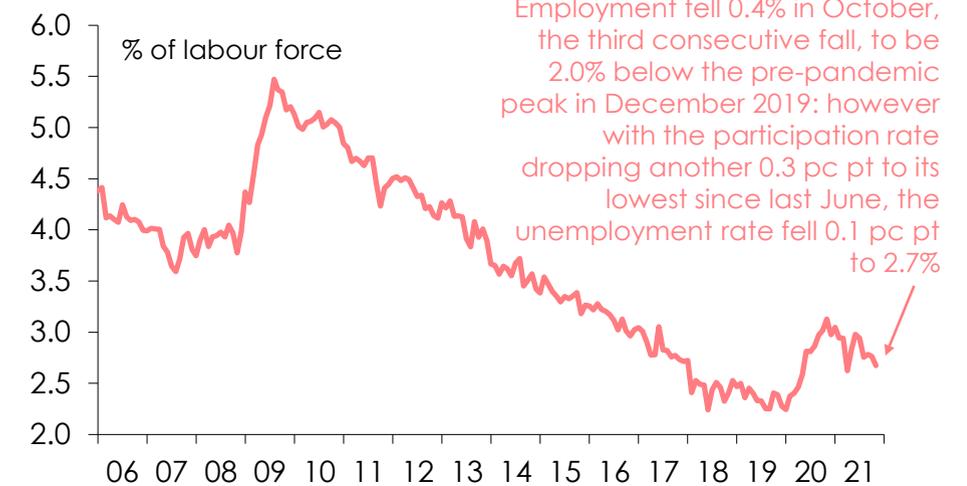
Real GDP



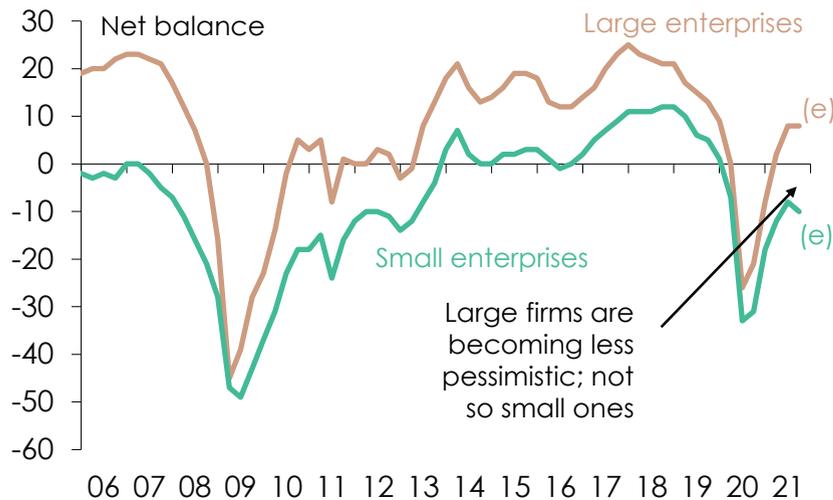
Consumer confidence



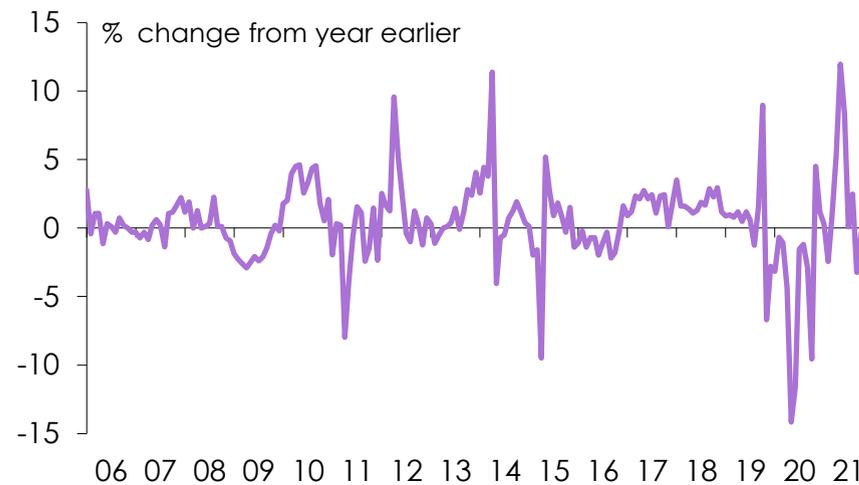
Unemployment



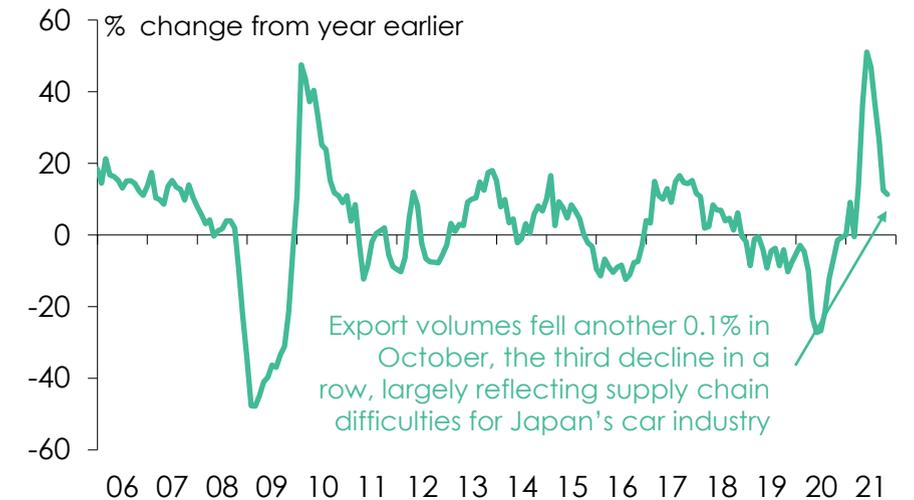
BoJ Tankan business conditions



Value of retail sales



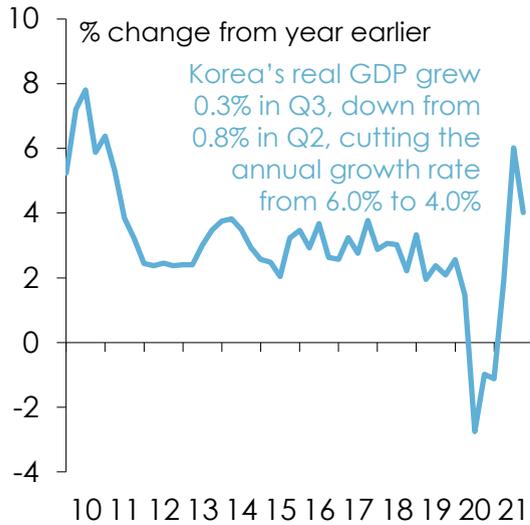
Merchandise export volumes



Sources: Japan Cabinet Office [Economic and Social Research Institute](#); [Bank of Japan](#); [Statistics Bureau of Japan](#); Japan [Ministry of Finance](#). [Return to "What's New"](#).

India's economy rebounded 12.7% in Q3 from an 11.6% contraction in Q2, to surpass its pre-pandemic peak by 0.5%

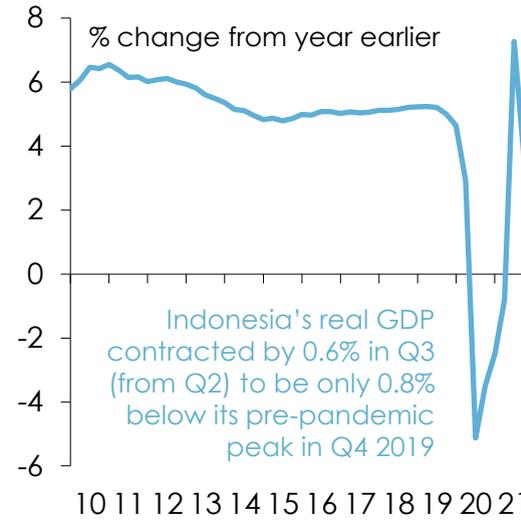
Korea



Hong Kong



Indonesia



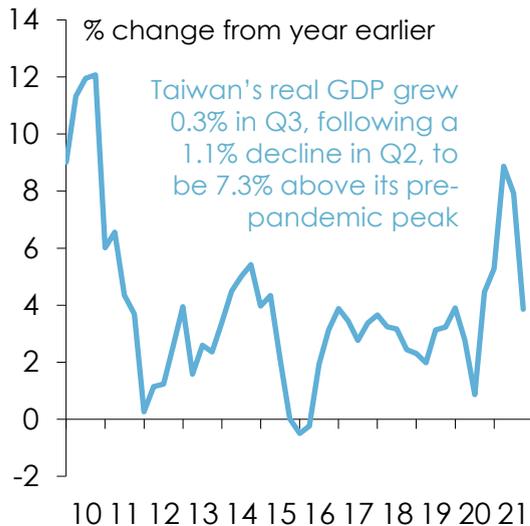
Thailand



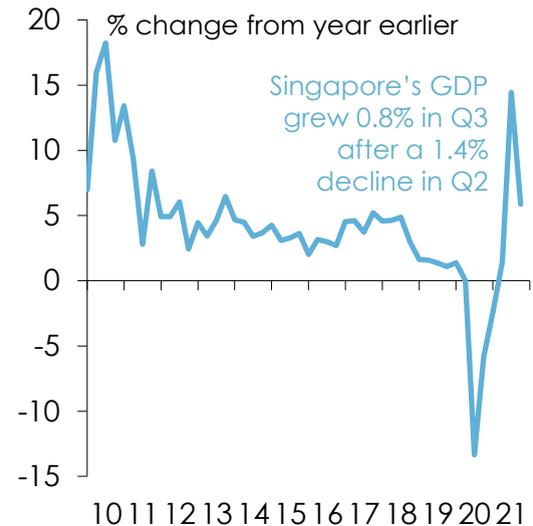
Vietnam



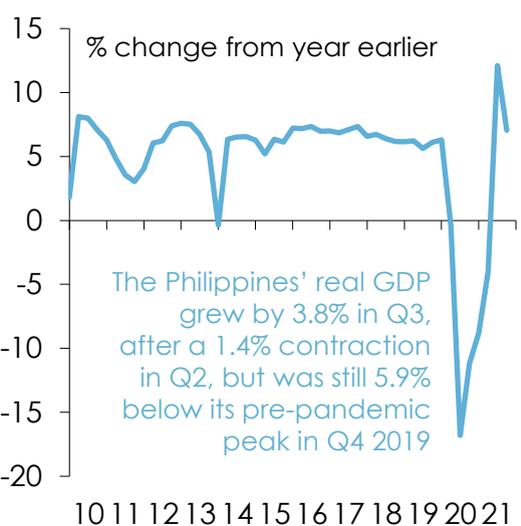
Taiwan



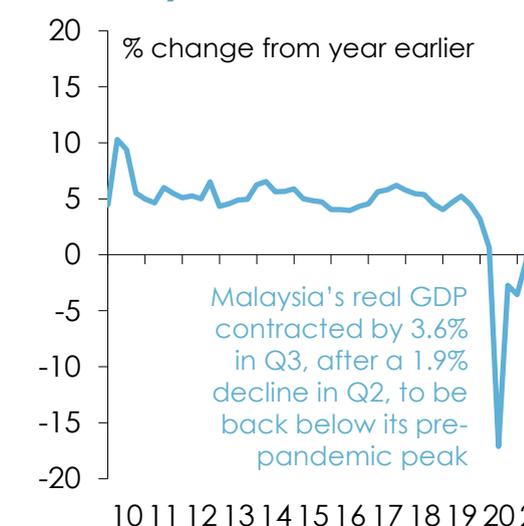
Singapore



Philippines



Malaysia

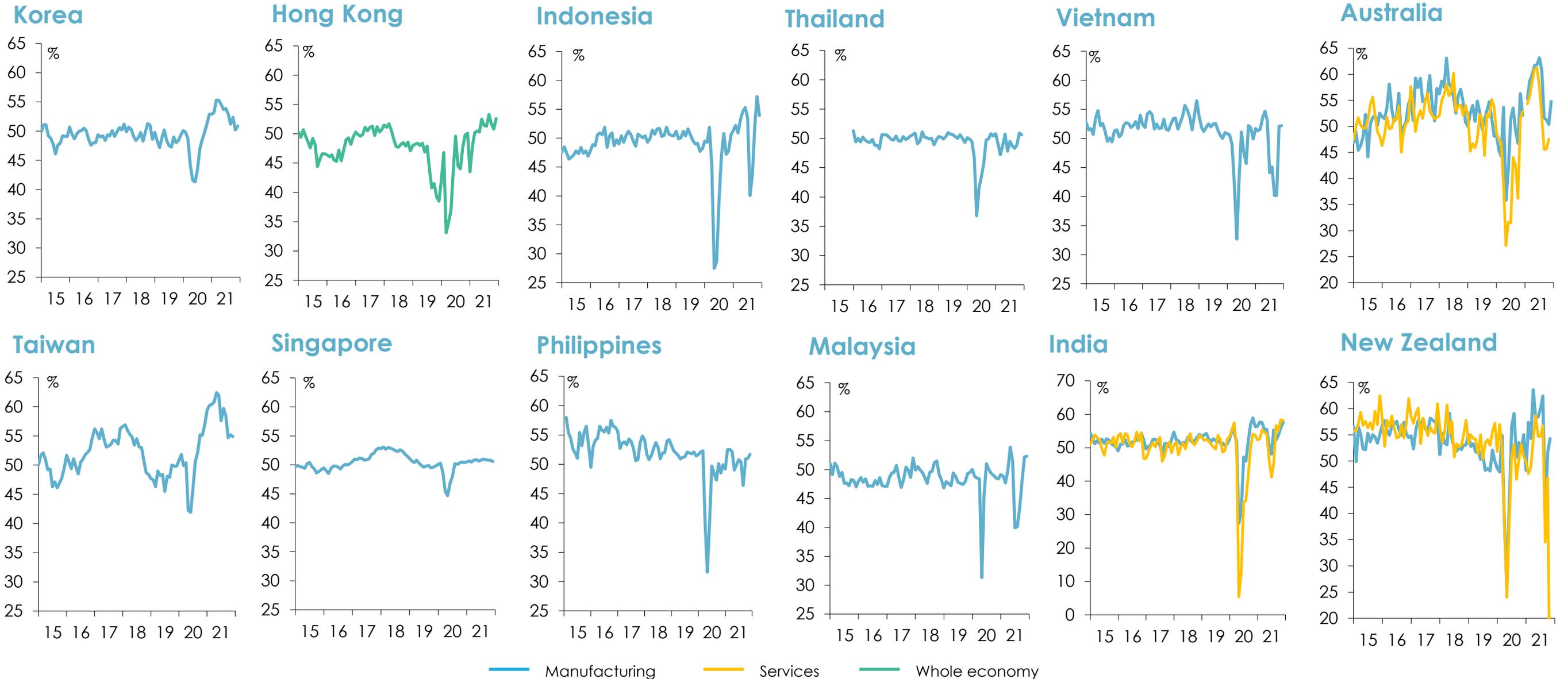


India



Sources: Bank of Korea; Taiwan Directorate-General of Budget, Accounting & Statistics; Hong Kong Census & Statistics Department; Singapore Ministry of Trade and Industry; Department of Statistics Malaysia; Office of the National Economic & Social Development Council of Thailand; Statistics Indonesia; Philippine Statistics Authority; General Statistics Office of Viet Nam; India Ministry of Statistics & Programme Implementation and OECD. [Return to "What's New"](#).

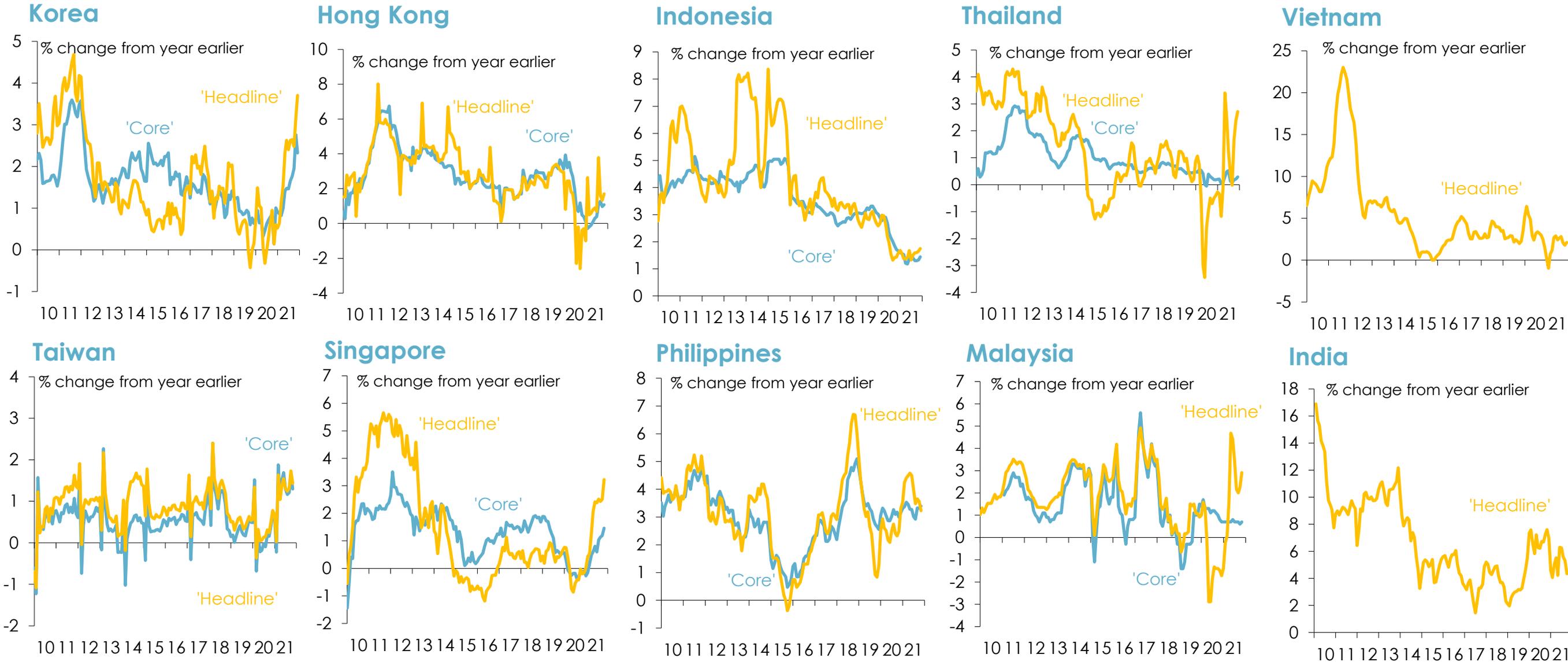
PMIs suggest a strong recovery in manufacturing in SE Asian economies previously hit by delta outbreaks, and steady growth elsewhere



— Manufacturing — Services — Whole economy

Note: Purchasing Managers' Indexes (PMIs) are derived from surveys of senior executives, who are asked to report whether various dimensions of business activity recorded an increase, decrease or no change compared with the previous month. A reading of 50 indicates an overall increase cf. the previous month, and a reading of less than 50 indicates a decrease. Latest data are for November, except for NZ which are October. Sources: [IHS Markit](#); [Singapore Institute of Purchasing and Materials Management](#); [Australian Industry Group](#); [Business NZ](#); Refinitiv Datastream. [Return to "What's New"](#).

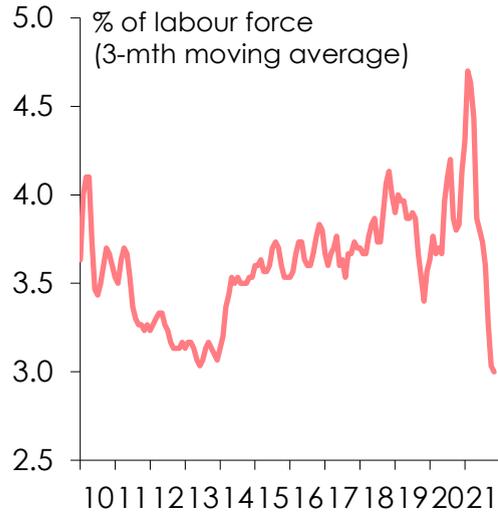
Some (though not all) Asian economies are experiencing temporary upward pressure on inflation as in North America and Europe



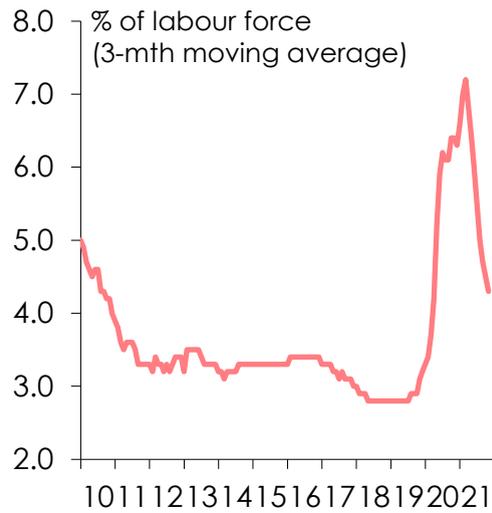
Note: 'Core' inflation in Korea excludes agricultural products and oil; in Taiwan it excludes fresh fruit, vegetables and energy; in Singapore it excludes accommodation and private transport; and in Hong Kong it excludes the effect of 'one-off government relief measures'. 'Core' inflation in Indonesia excludes 'volatile foods' and changes in 'administered prices' (such as fuel subsidies, transport fares and electricity prices); in the Philippines it excludes rice, corn, meat, fish, cultivated vegetables and fuels; in Thailand it excludes fresh or raw food and energy; and in Malaysia it excludes fresh food and 'administered' prices. Vietnam and India do not publish measures of 'core' inflation. Sources: national statistical agencies and central banks. [Return to "What's New"](#).

Unemployment rose sharply in most Asian economies last year but is now falling in most of them – with the conspicuous exception of Thailand

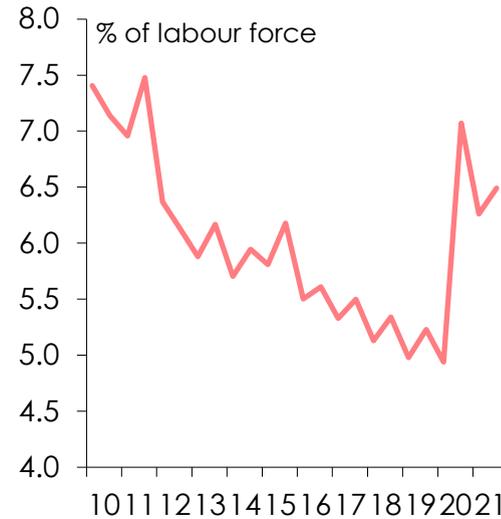
Korea



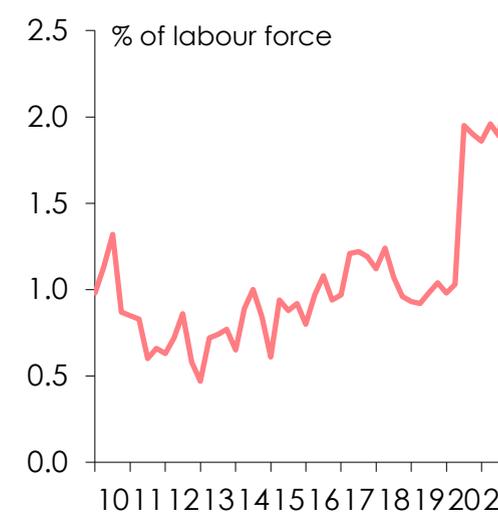
Hong Kong



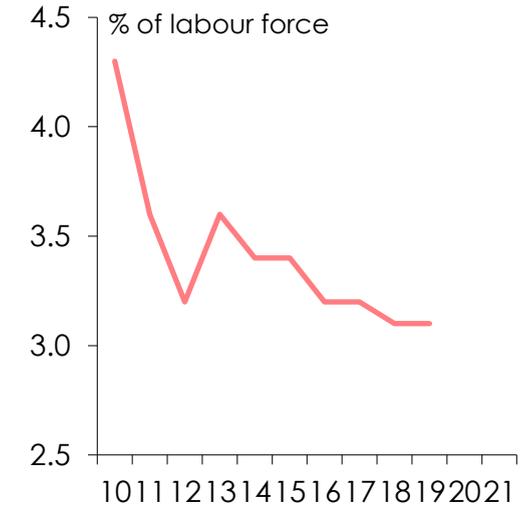
Indonesia



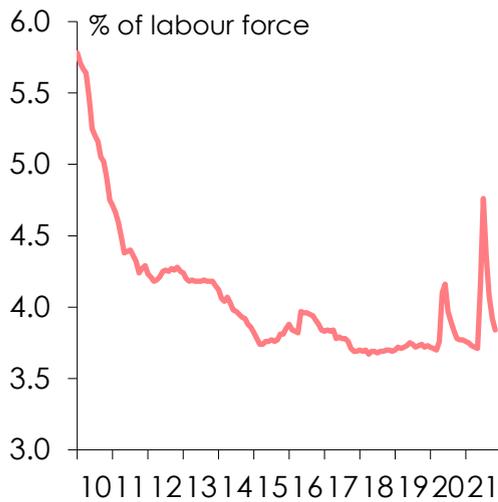
Thailand



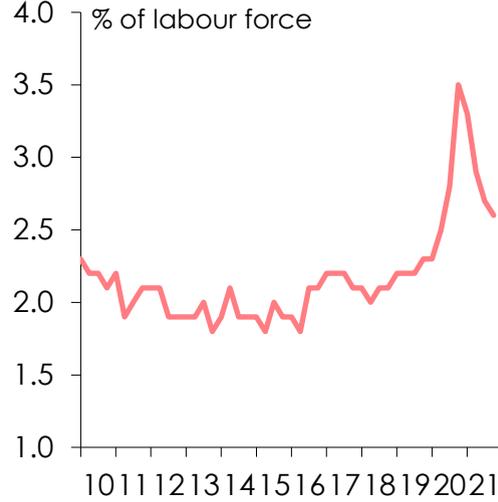
Vietnam



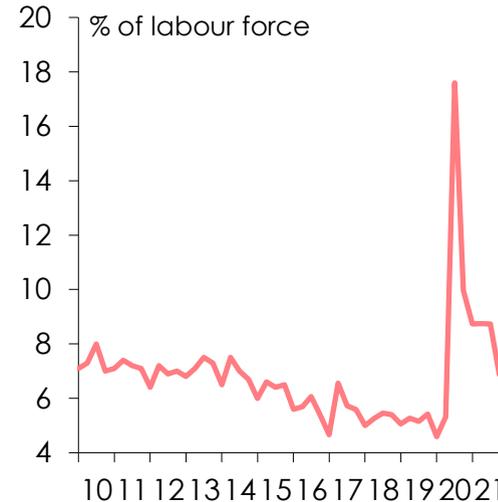
Taiwan



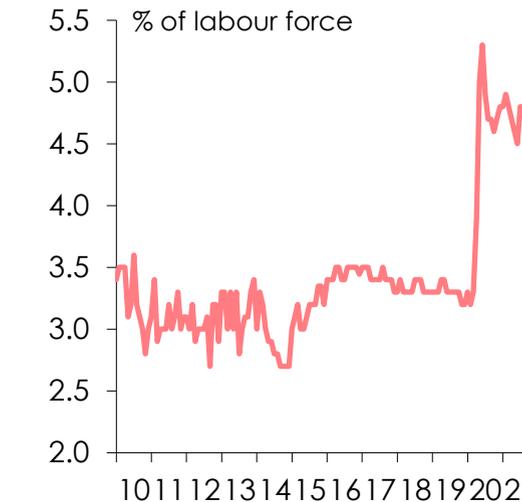
Singapore



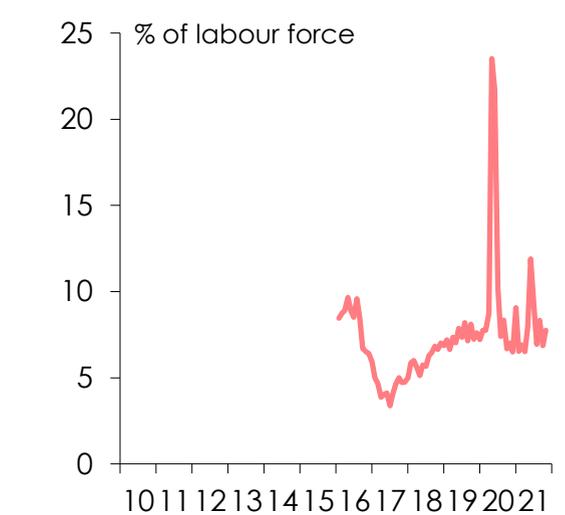
Philippines



Malaysia

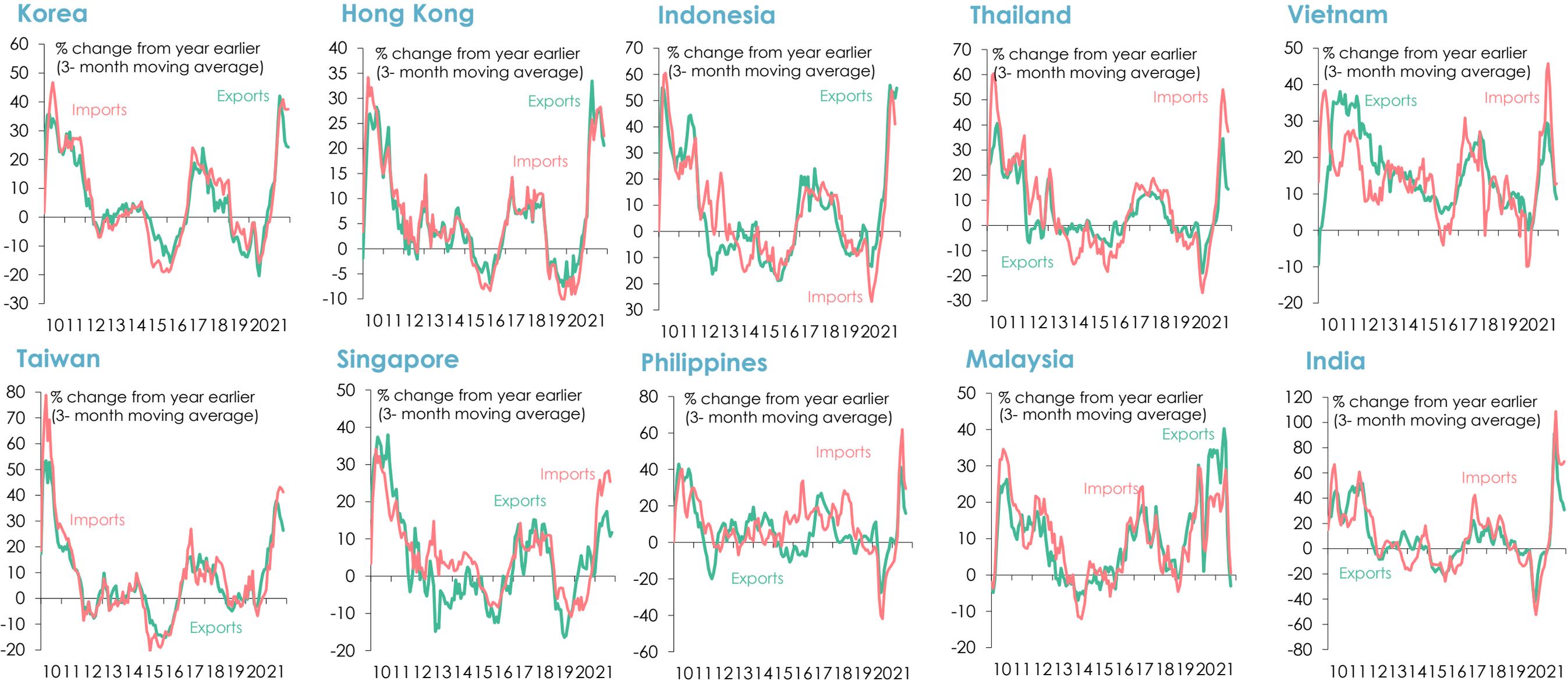


India



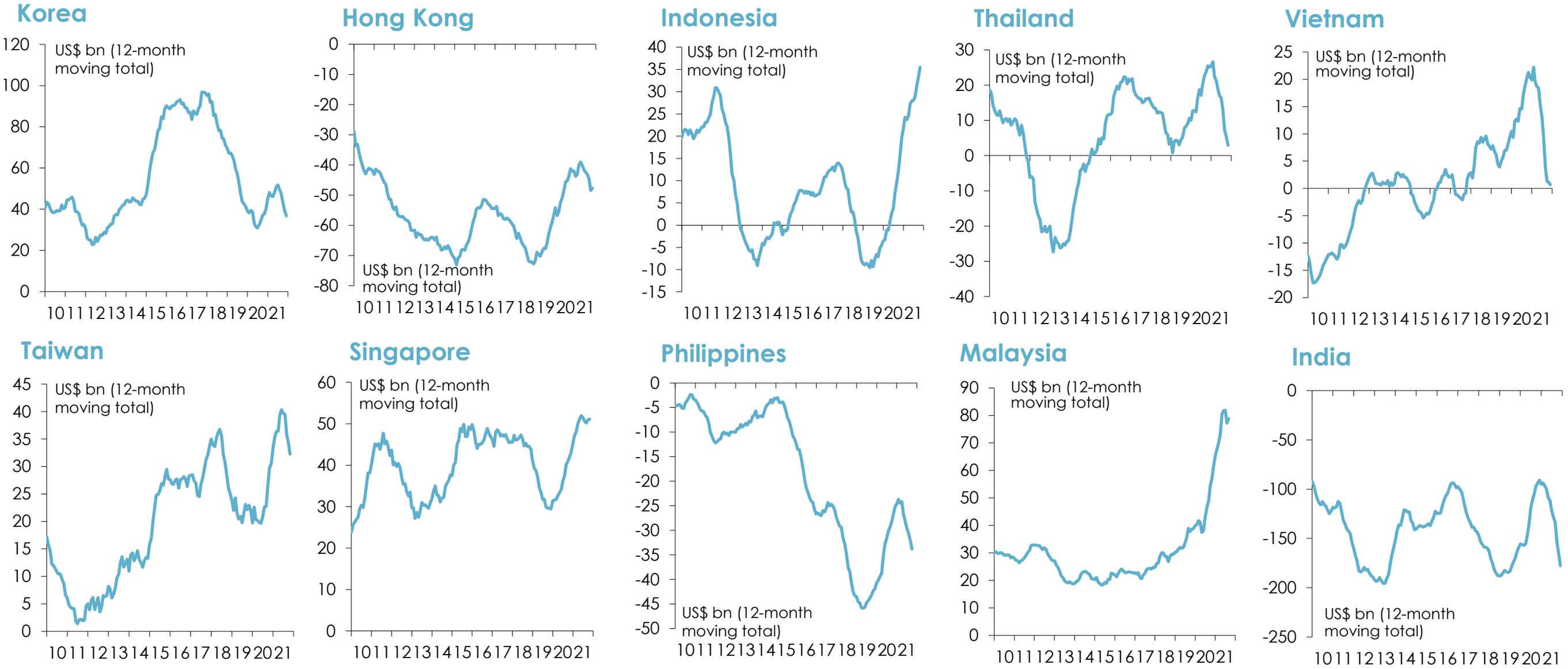
Note: Unemployment data is published monthly in Korea, Taiwan, Hong Kong, and Malaysia; quarterly in Singapore, Thailand and the Philippines; semi-annually (February and August) in Indonesia; and annually in Vietnam (with the latest reading being for 2019). There is no official unemployment data in India: the estimates shown on this page are compiled by a private sector 'think tank'. Sources: national statistical agencies; [Centre for Monitoring the Indian Economy](#). [Return to "What's New"](#).

Asian exports are recovering from the Covid-induced slump – although ‘base effects’ from this time last year are inflating the growth



Note: Data for Hong Kong, Singapore and Malaysia are published in national currencies and converted to US dollars by Corinna using month-average exchange rates. Sources: national statistical agencies and central banks. [Return to "What's New"](#).

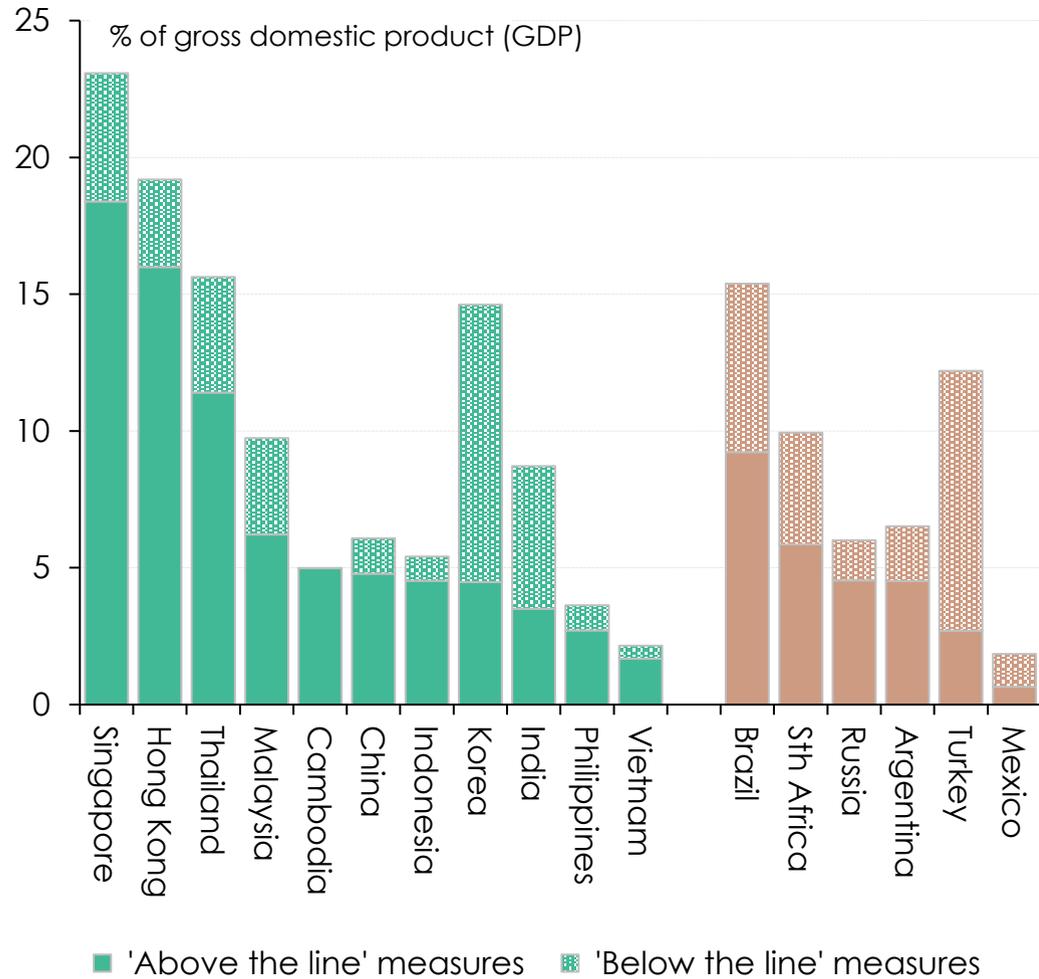
All Asian economies have experienced improvements in their trade balances since the onset of Covid, although some are now turning around



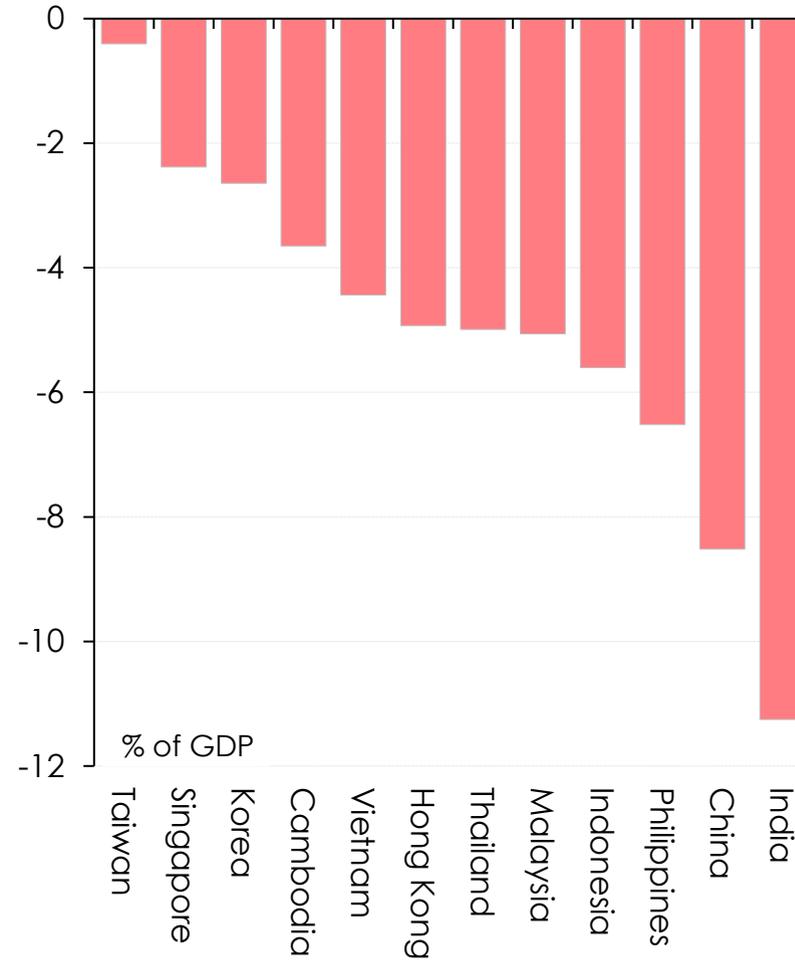
Note: Data for Hong Kong, Singapore and Malaysia are published in national currencies and converted to US dollars by Corinna using month-average exchange rates. Sources: national statistical agencies and central banks. [Return to "What's New"](#).

Apart from Singapore, Hong Kong and Thailand, Asian governments' discretionary fiscal responses to Covid-19 have been relatively modest

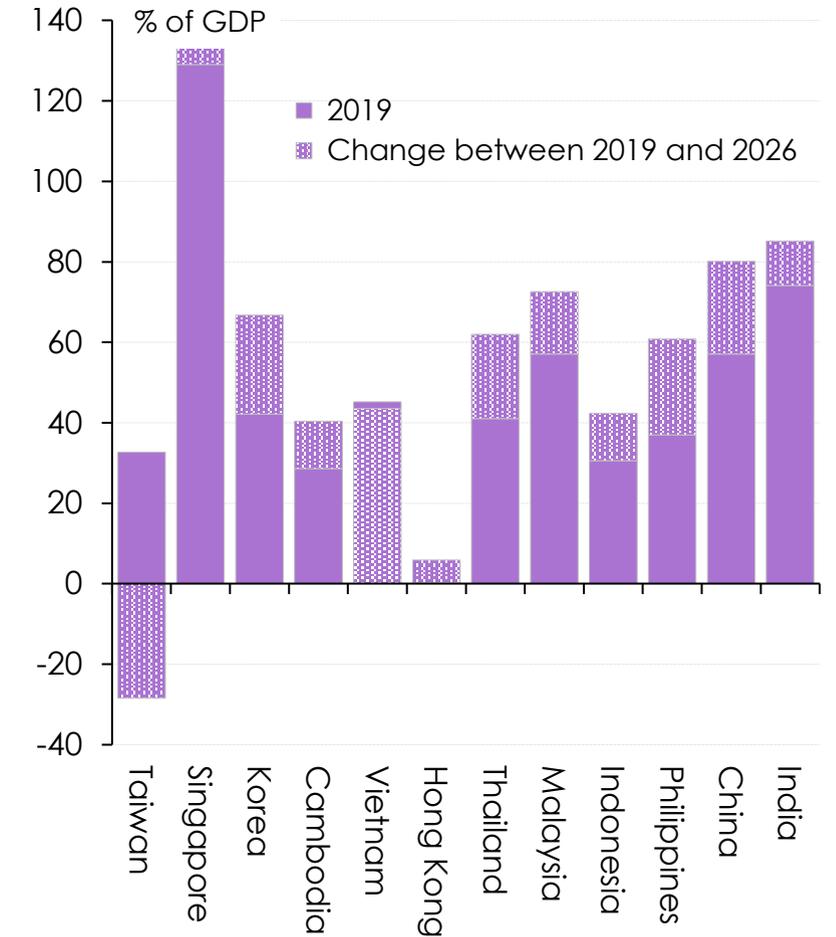
Fiscal policy responses to Covid-19 – Asian & other selected emerging market economies



Budget balances – Asian economies 2020-2022



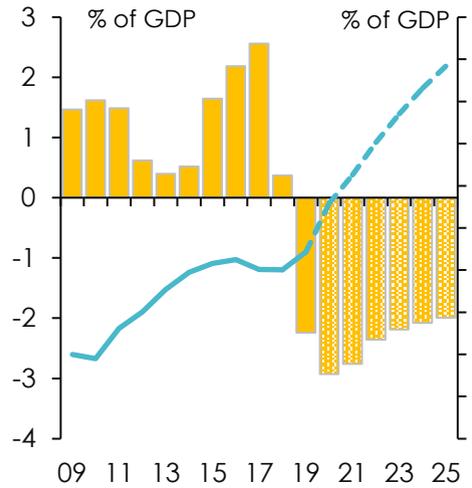
Gross government debt – Asian economies 2019-26



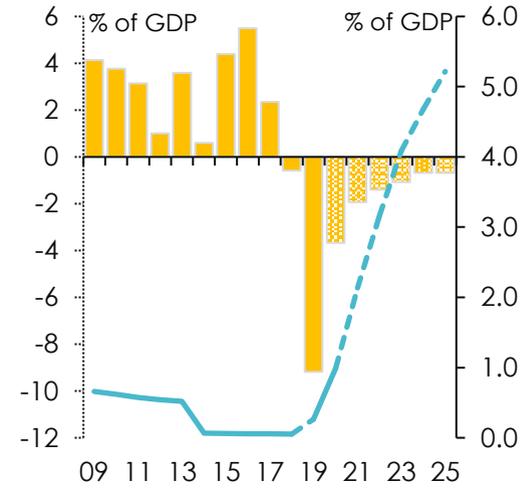
Note: 'Above the line' measures comprise additional or accelerated spending and deferred or foregone revenue. 'Below the line' measures comprise equity injections, loans, asset purchases and debt assumptions, but do not include loan guarantees or other contingent liabilities. 'DMS' means 'developed markets' (or 'advanced economies'). Data includes measures announced up until 27th September 2021. Singapore's apparently very large gross debt is offset by substantial financial asset holdings. Taiwan's gross debt is projected to decline as a percentage of GDP between 2019 and 2026. Sources: IMF, [Fiscal Monitor Database of Country Fiscal Measures in Response to the COVID-19 Pandemic](#), October 2021; and [Fiscal Monitor](#), October 2021. [Return to "What's New"](#).

Asian governments, except for Taiwan, Singapore and Hong Kong, will be running large budget deficits for the next five years

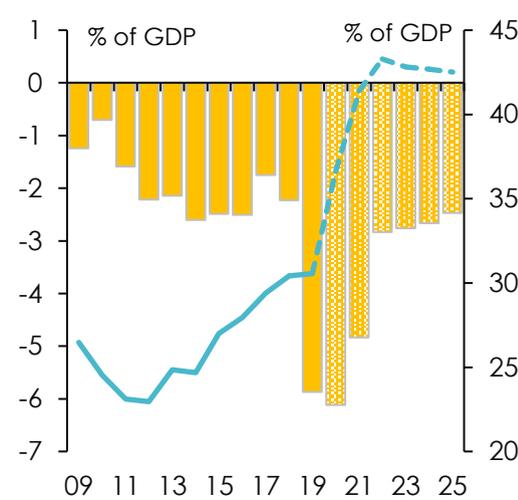
Korea



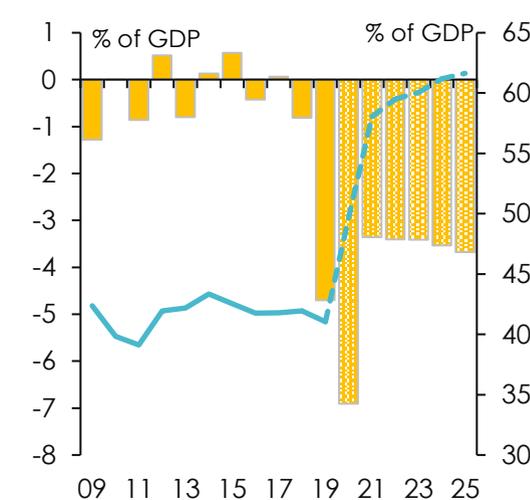
Hong Kong



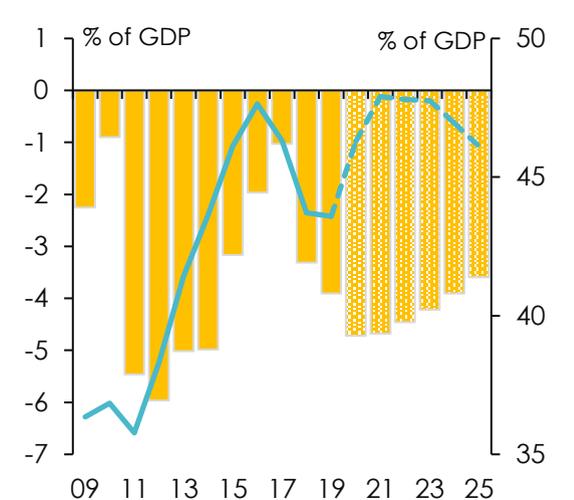
Indonesia



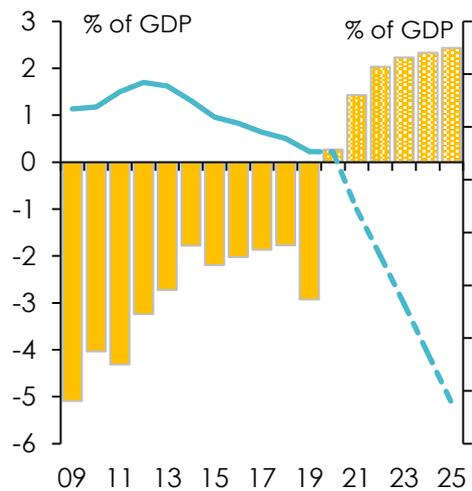
Thailand



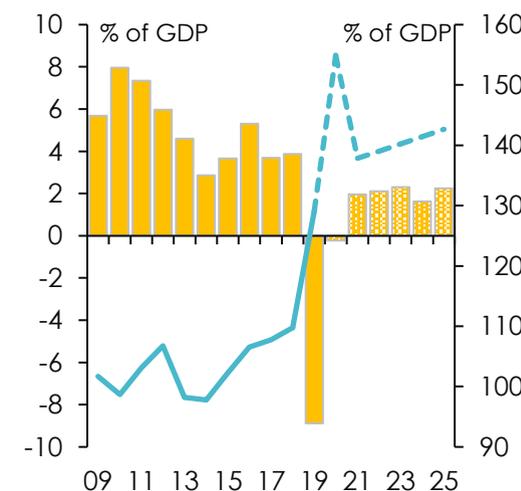
Vietnam



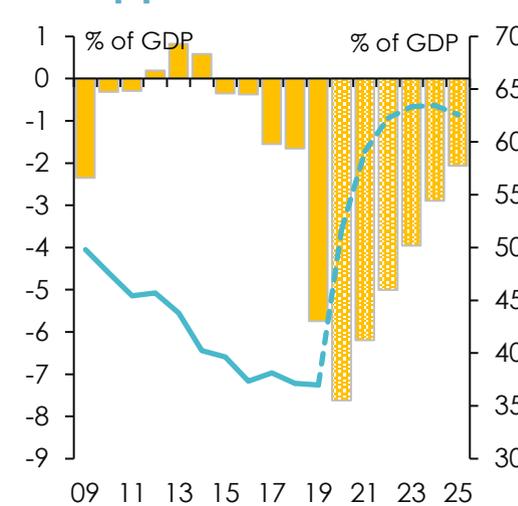
Taiwan



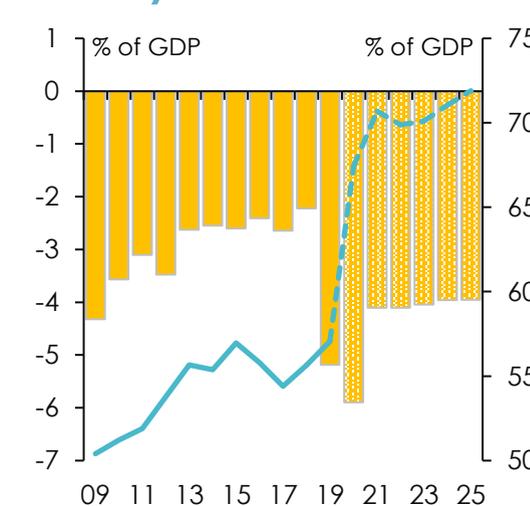
Singapore



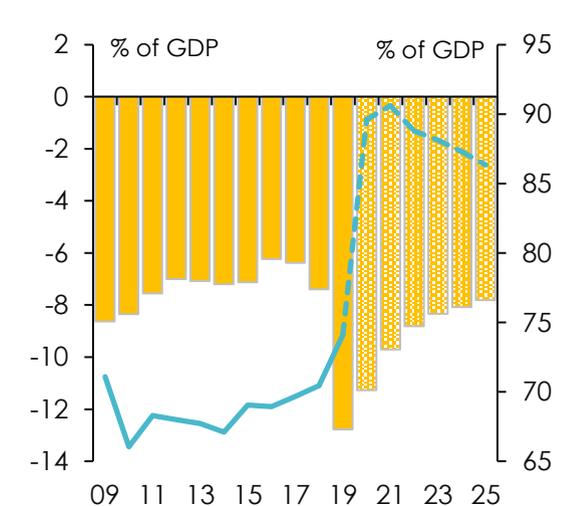
Philippines



Malaysia



India



General government overall fiscal balance (left scale)

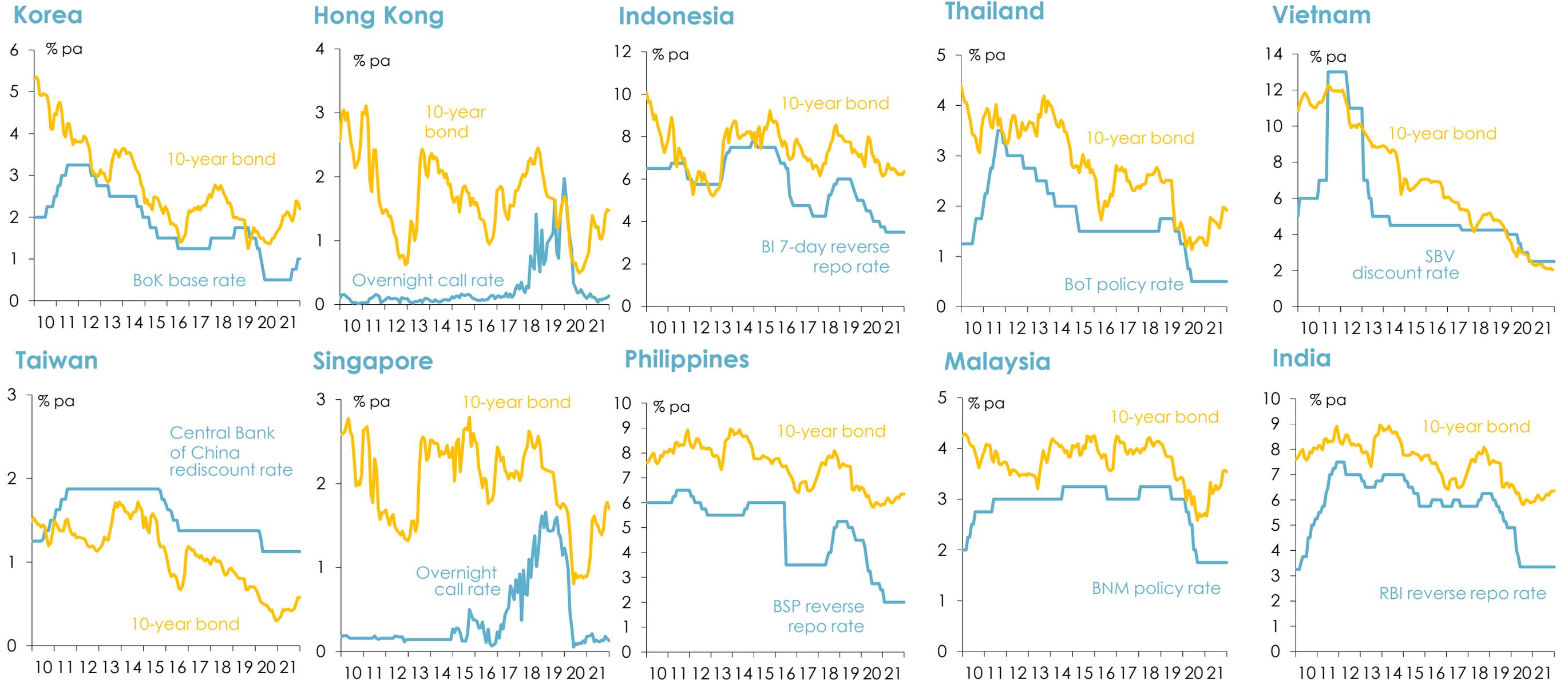


General government gross debt (right scale)

The Bank of Korea raised its base rate another 25bp last week, as expected – it's been the only Asian central bank to raise rates this year

- ❑ The [Bank of Korea](#), as expected, raised its base rate another 25bp, to 1.0%, at its Monetary Policy Board meeting last week, after a similar increase in August
 - [explaining](#) its decision the Board noted that consumer price inflation would “run considerably above 2%, exceeding the path projected in August”, before declining gradually to “2% for 2022 as a whole”, and that “the inflation expectations of the general public have increased to the upper-2% level”
 - the Board also noted that “housing prices have continued to increase rapidly in all parts of the country” – and this appears again to have been a factor in the decision to raise rates, given that it cited “financial stability” and “the risk of a buildup of financial imbalances” as matters to which it would “pay attention” and “judge” when adjusting monetary policy
- ❑ The [Central Bank of Sri Lanka](#) left its standing deposit facility and standing lending facility rates unchanged at 5% and 6% respectively at its Monetary Board meeting last week (having previously raised these rates by 50 bp in August)
 - inflation in Sri Lanka was 8.3% over the year to October (core inflation 7.2%) cf. CBSL’s target of “mid single digits”
 - but the Board concluded that “the measures already taken ... will help curb excessive demand pressures and prevent the build-up of adverse inflation expectations”
- ❑ Last month, [Bank Indonesia](#) left its 7-day reverse repo rate unchanged at 3.50%, while [Bangko Sentral ng Pilipinas](#) also left its overnight reverse repo rate unchanged at 2.0%
- ❑ No other East Asian central banks have foreshadowed any intention of raising interest rates any time soon, although in October the [Monetary Authority of Singapore](#) (which implements monetary policy through the exchange rate rather than interest rates) re-instated a ‘slight’ positive slope for the Sing\$ ‘effective exchange rate policy band’, which had previously been set at zero since March last year
- ❑ Next Asian central bank meetings are the Reserve Bank of India on 8th December, State Bank of Pakistan on 14th December, and Taiwanese, Indonesian, and Philippines central banks on 16th December

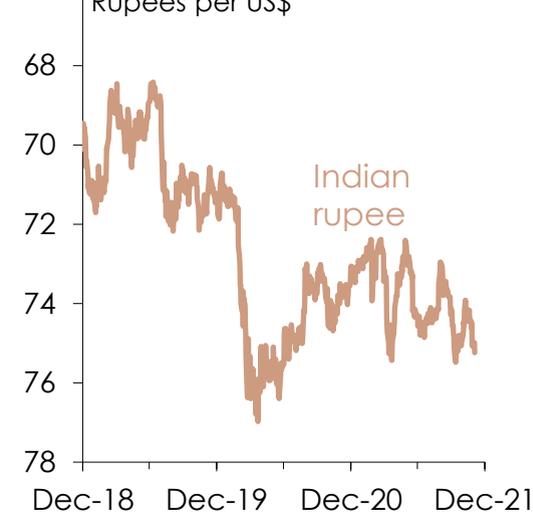
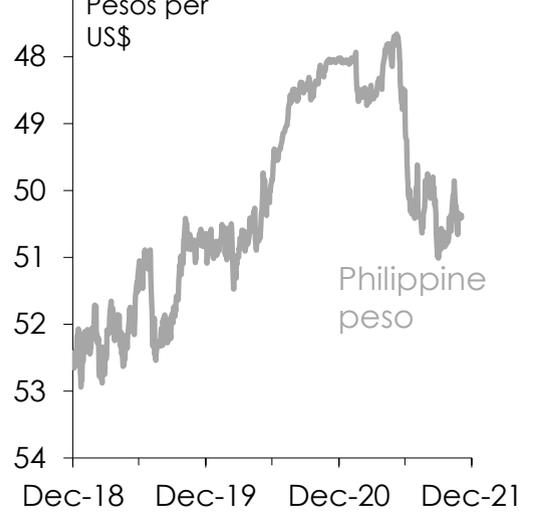
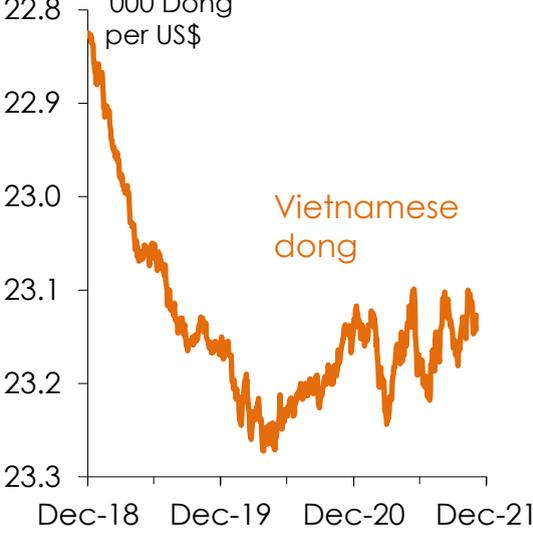
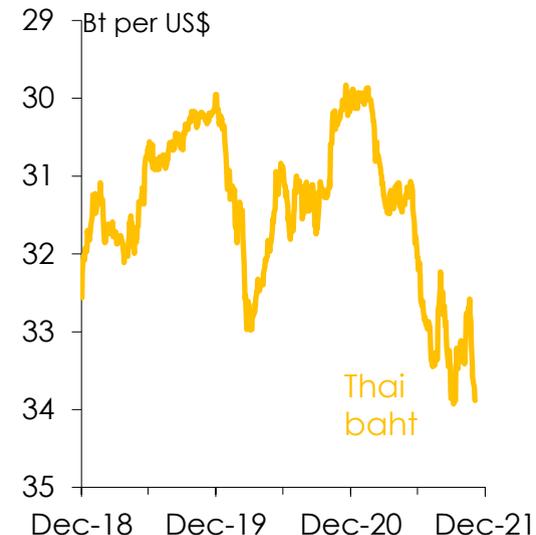
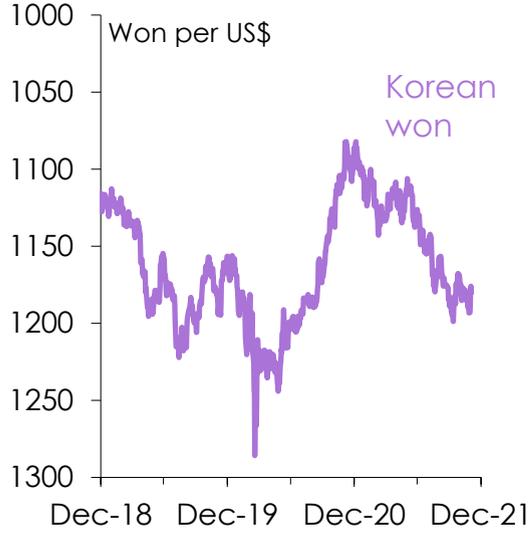
The Bank of Korea is the only Asian central bank to have raised rates this year – and it did so a second time last month



Note: Neither Hong Kong nor Singapore use a monetary policy indicator interest rate. Hong Kong has a currency board system, so HK interest rates track US rates very closely; the Monetary Authority of Singapore uses the (effective) exchange rate as its principal monetary policy instrument. Data are monthly averages up to 3rd December 2021. Sources: national central banks; Refinitiv Datastream. [Return to "What's New"](#).

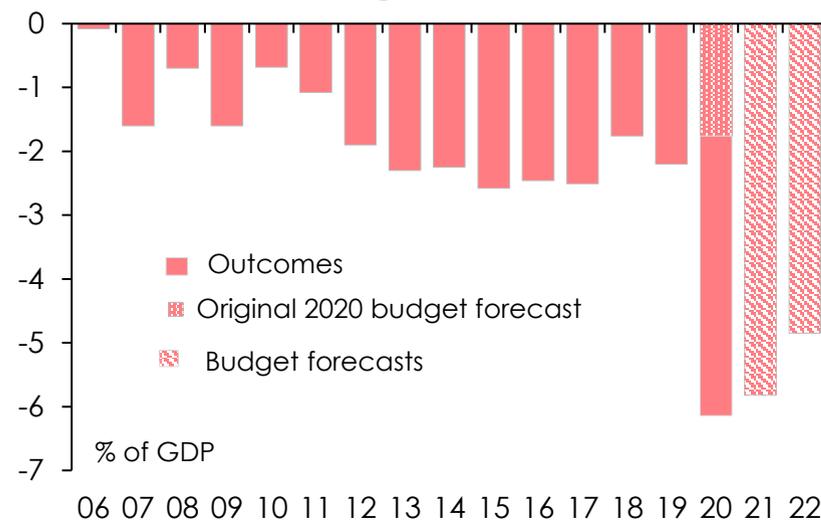
Asian currencies were mixed against the US\$ this week with the won and NT\$ up 1.1% and 0.4%, but the baht and rupiah down 0.9% and 0.7%

Asian currency exchange rates vs US dollar

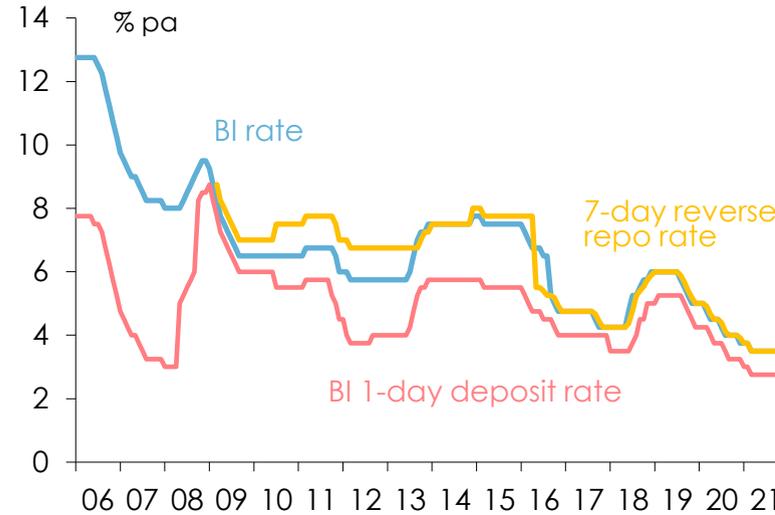


Bank Indonesia's monetary policy settings have been on hold since January although it has continued with its 'synergistic monetary expansion'

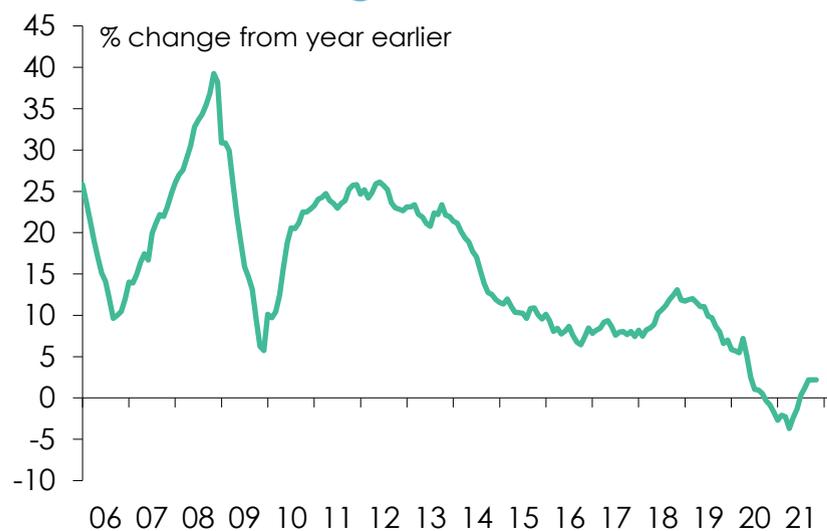
Indonesia budget deficit



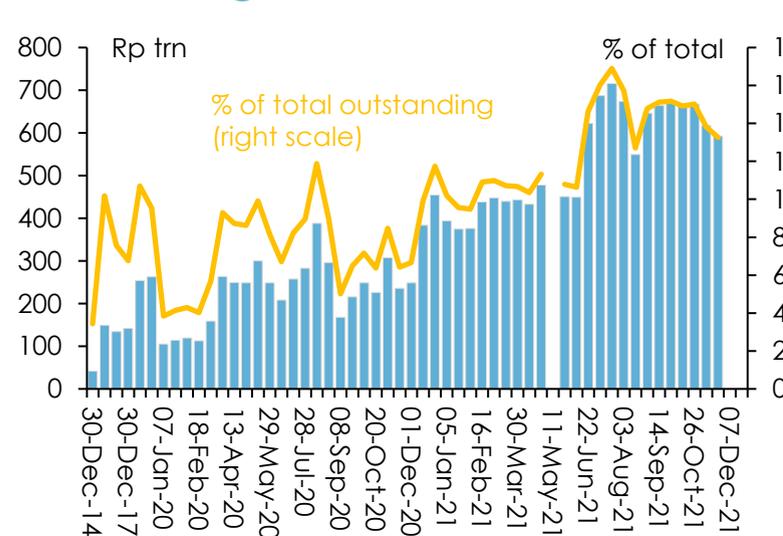
BI monetary policy rates



Bank lending



BI holdings of tradeable SBNs

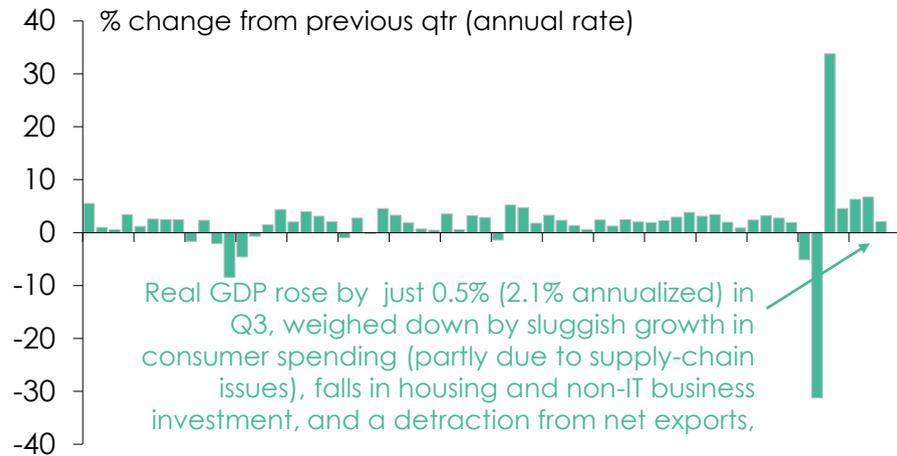


- In April 2020, the Indonesian Government and Bank Indonesia (BI) agreed to a 'burden-sharing' scheme under which BI will directly purchase bonds equivalent to 25% of this year's budget financing requirement (and return the interest received to the Government), as well as subsidizing interest payments on other bonds
 - BI calls this 'synergistic monetary expansion'
 - up to 15th October BI has purchased Rp 143trn of SBN in the primary market (cf. Rp 473trn in 2020)
 - BI has indicated that it will be a 'standby buyer' for up to one-quarter of government borrowing requirements through 2022
- BI's holdings of SBNs have fallen by Rp82bn (12%) from the most recent peak at the end of September
 - BI has absorbed 23% of the increase in the total stock of SBNs outstanding so far this year, cf. 17% in 2020
- This 'QE' isn't adding to inflationary pressure because lending to the private sector is declining
 - 'core' inflation at 1.4% in November is well below BI's target of 2-4% (slide 51) and BI expects it to remain within target in 2021 and 2022
- BI again left its policy settings unchanged at last month's Governing Council meeting

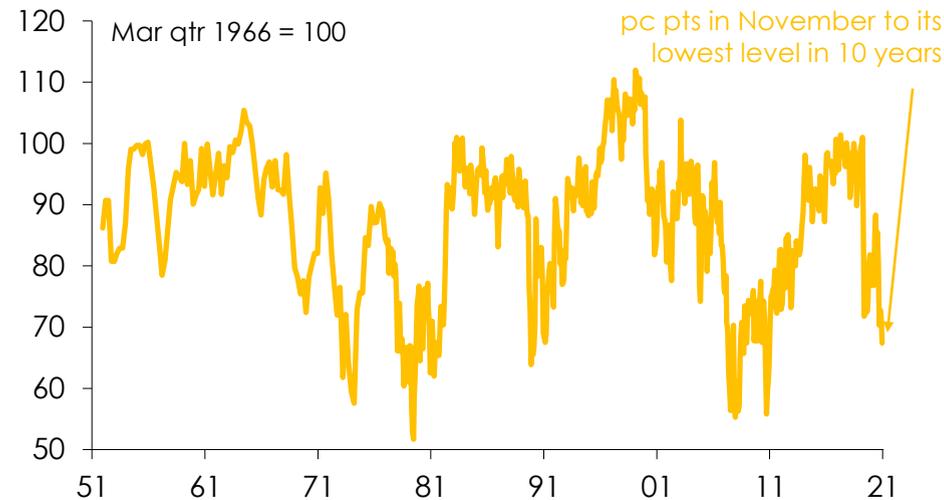
Sources: [Indonesia Ministry of Finance \(Kementerian Keuangan\)](#); [Directorate of Government Debt Securities](#); Bank Indonesia. [Return to "What's New"](#).

US retail sales and industrial production both rose strongly in October, but consumer sentiment fell sharply in November in response to inflation

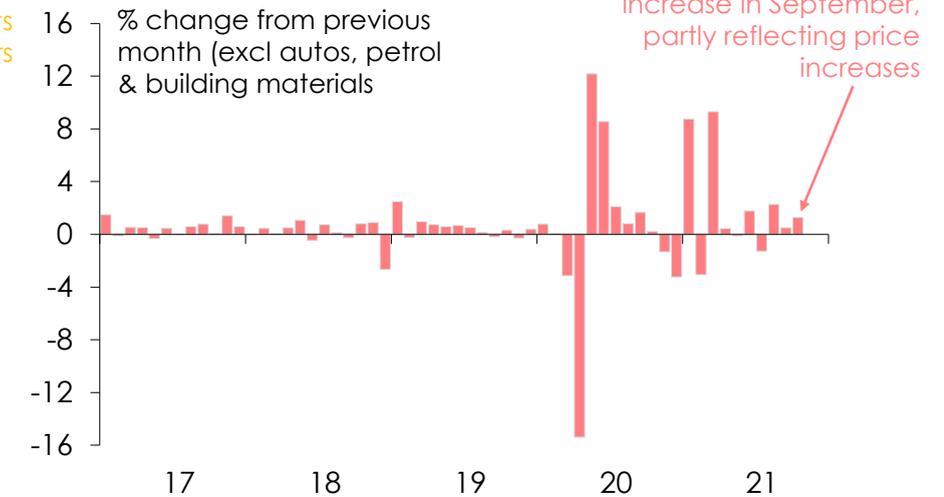
Real GDP



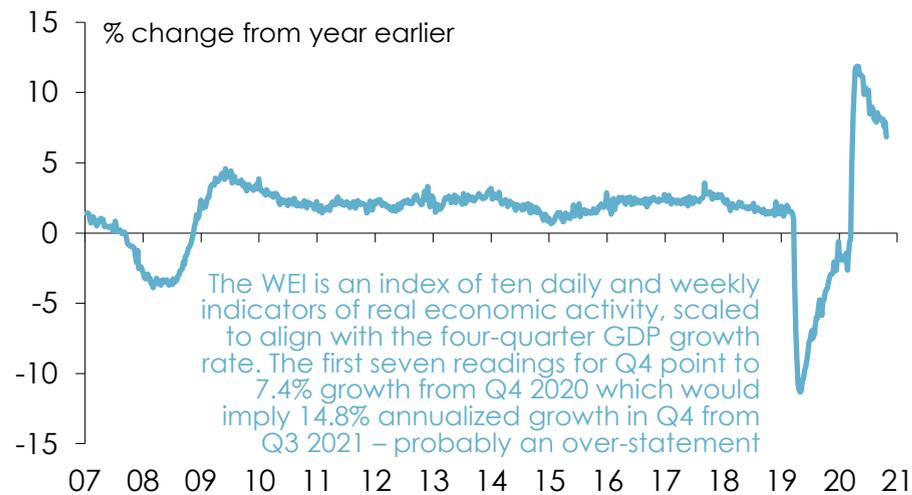
Consumer sentiment



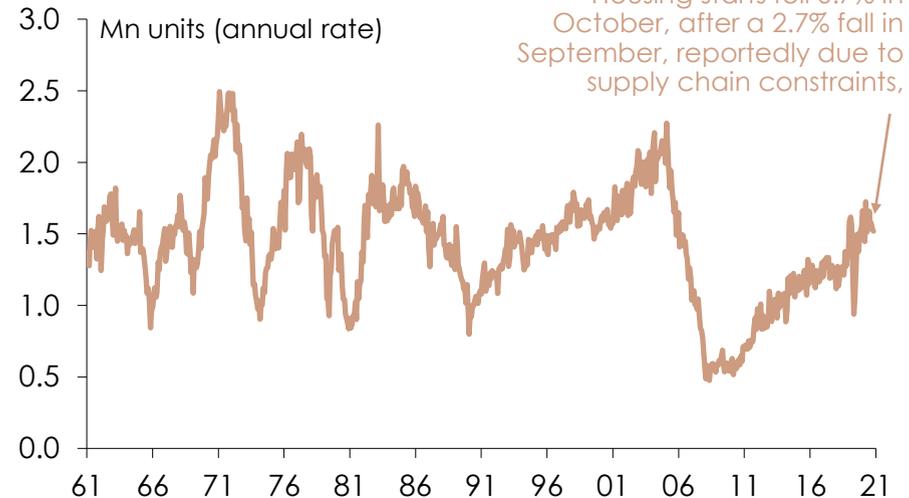
'Core' retail sales



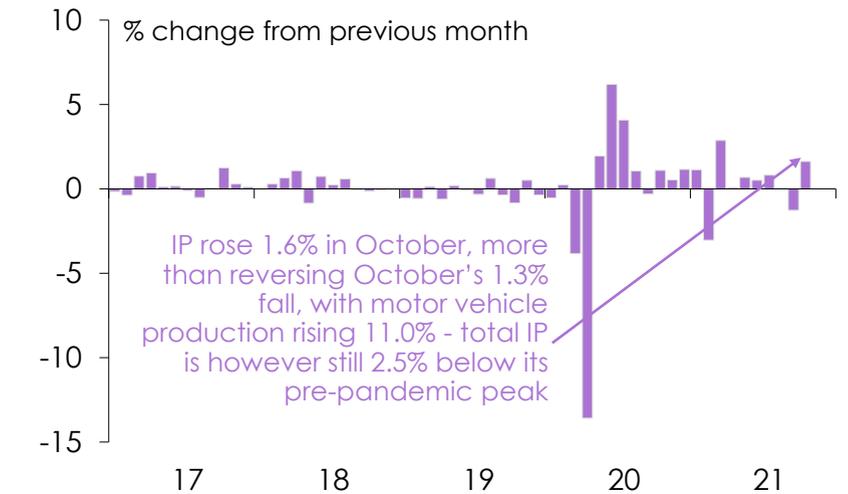
NY Fed weekly economic index



Housing starts

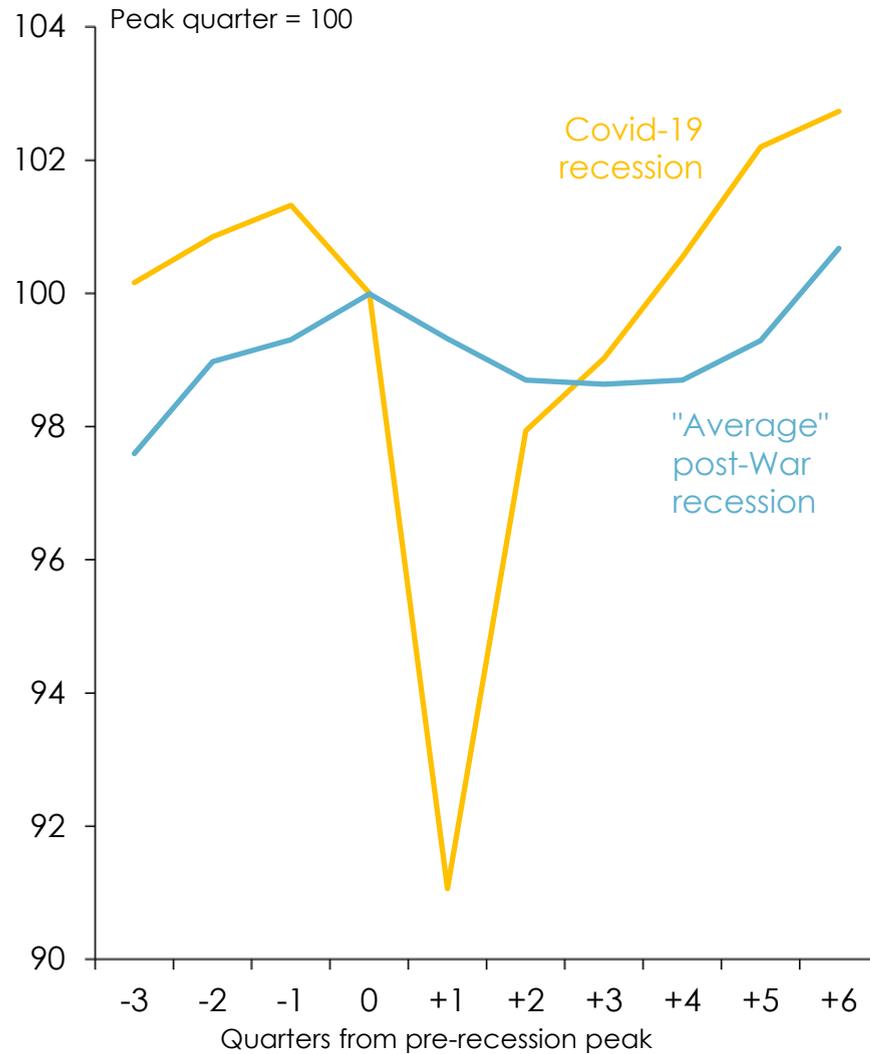


Industrial production

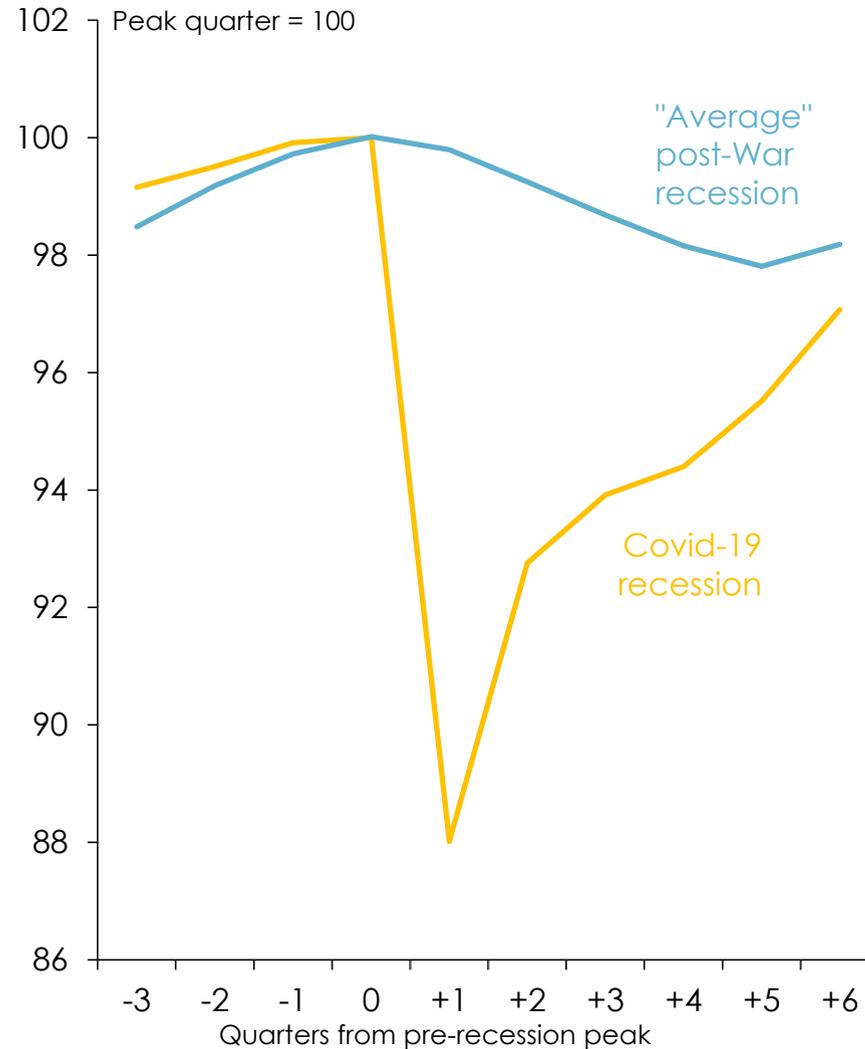


The Covid-19 recession has been quite unlike any other of the recessions the US has experienced since the end of World War II

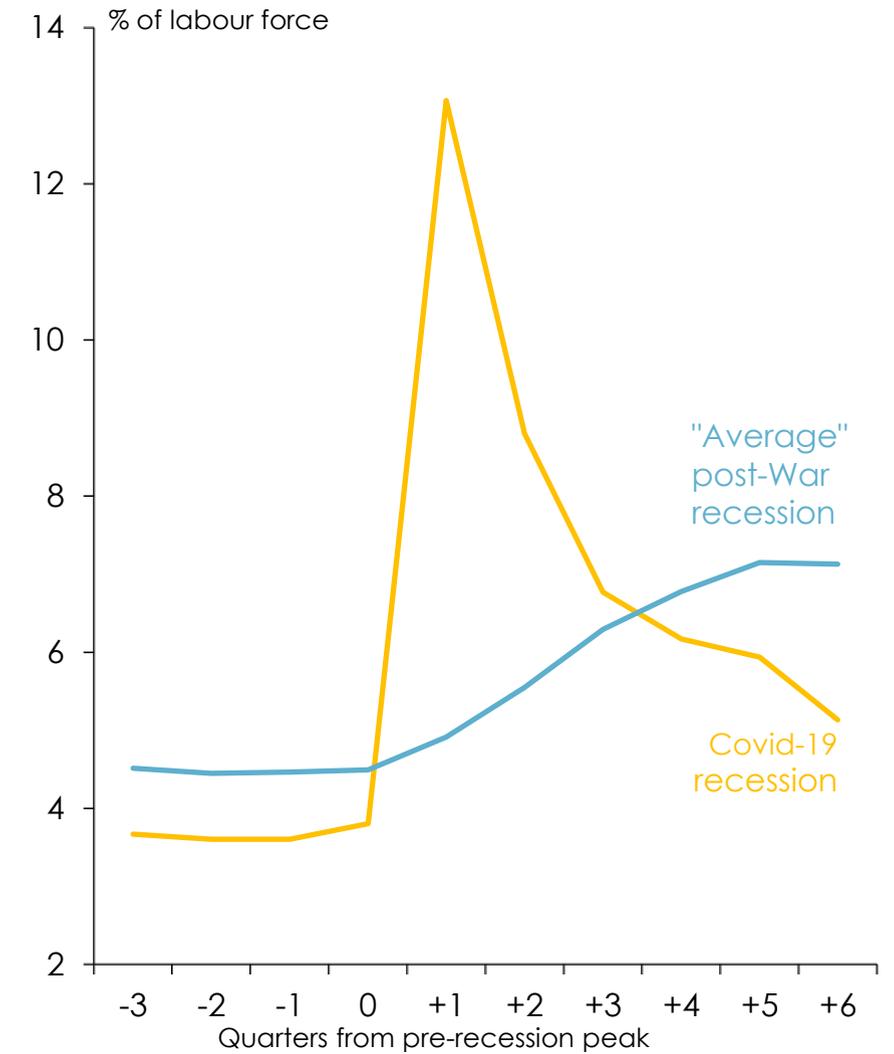
Level of real GDP



Non-farm payroll employment



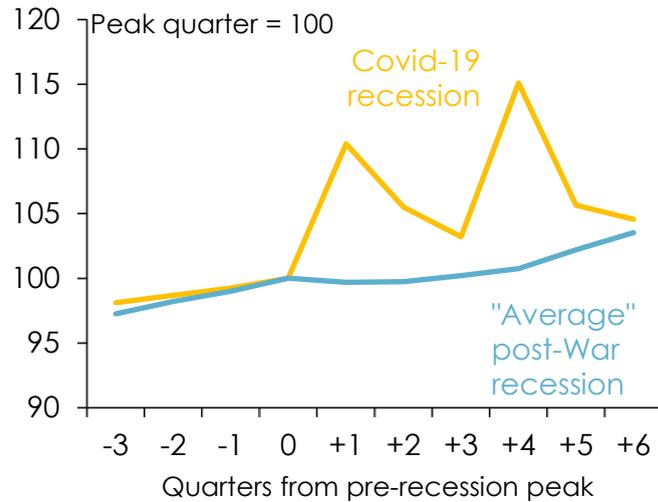
Unemployment rate



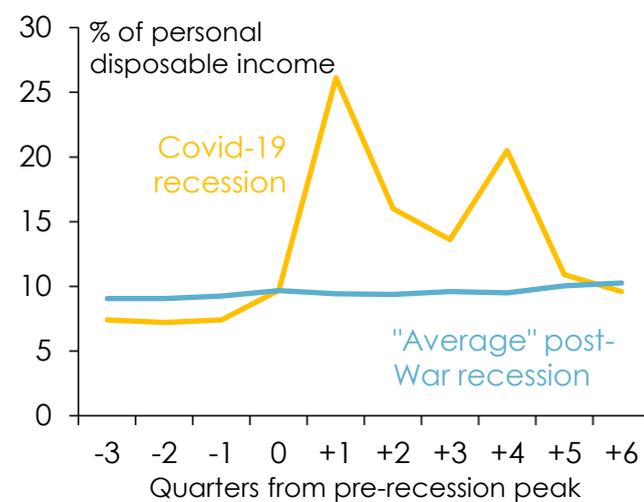
Note: 'average post-war recession' is the average of figures for each of the eleven post-war US recessions as designated by the [National Bureau of Economic Research Business Cycle Dating Committee](#), with the exception of the recession of January-July 1980 (which was too short, and too close to the July 1981-November 1982 recession to be fully reflected in the averages shown here); 'Peak quarter' is the quarter in which real GDP attained its highest level before the onset of the recession. No recession was ever as 'smooth' as implied by the averages shown here. Sources: US [Bureau of Economic Analysis](#); [Bureau of Labor Statistics](#). [Return to "What's New"](#).

The differences between this recession and previous ones are even more apparent from some of the details in the national accounts

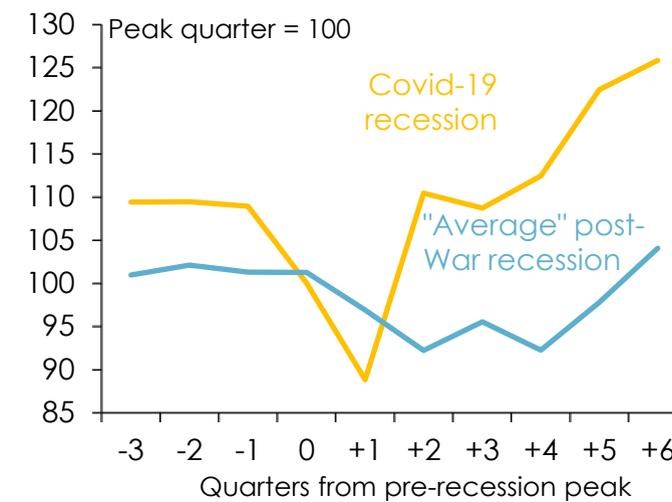
Personal disposable income



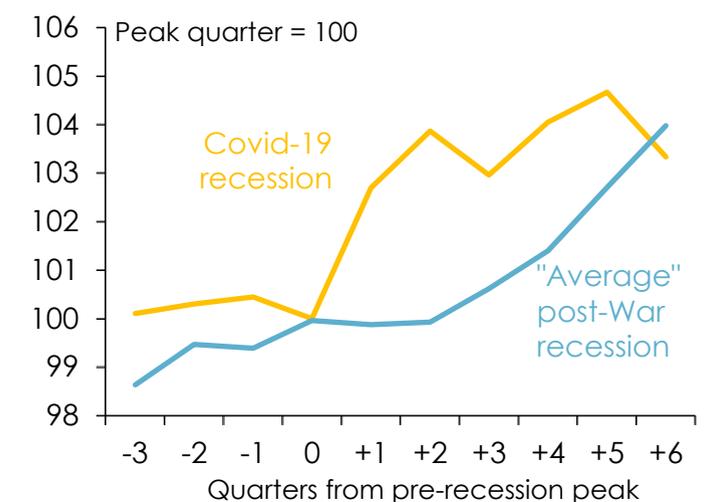
Personal saving rate



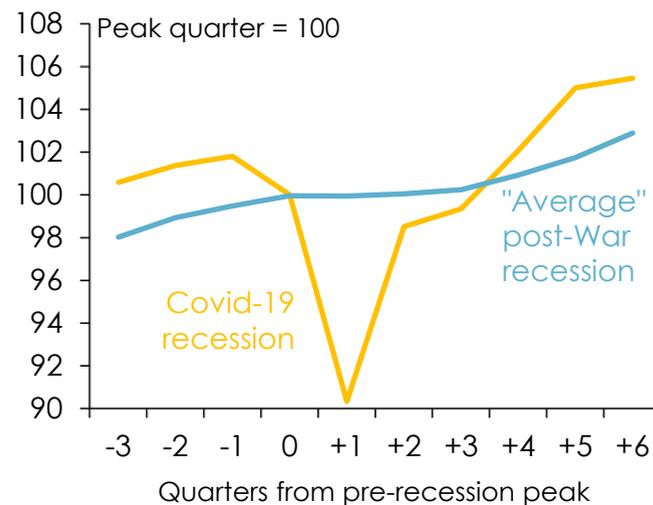
After-tax corporate profits



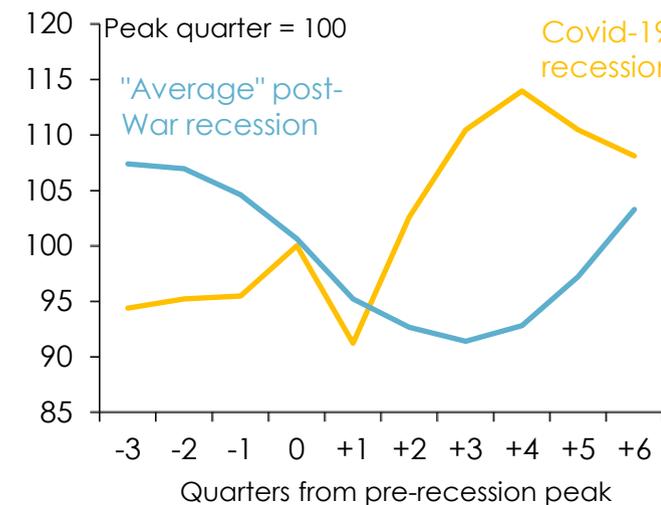
Labour productivity



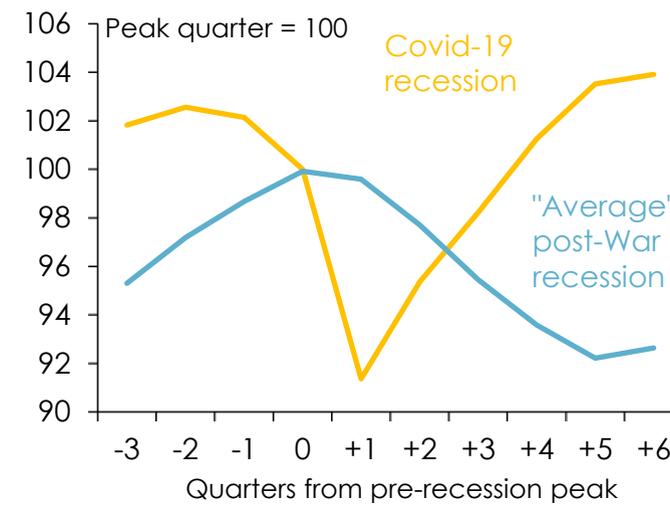
Personal consumption



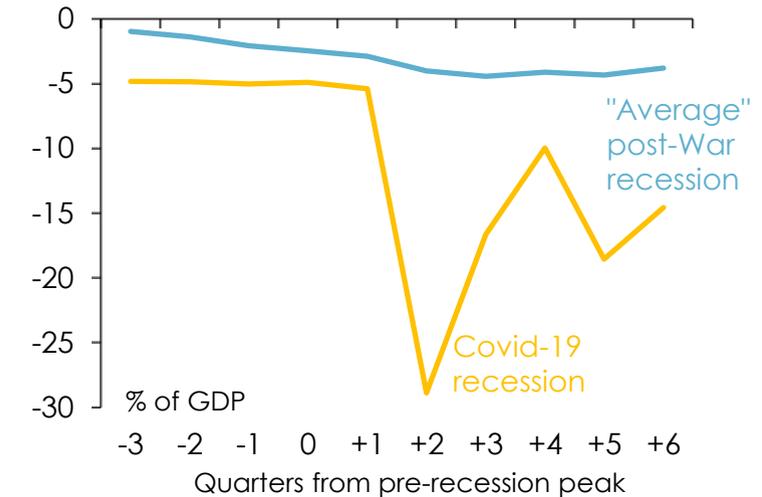
Residential investment



Business investment



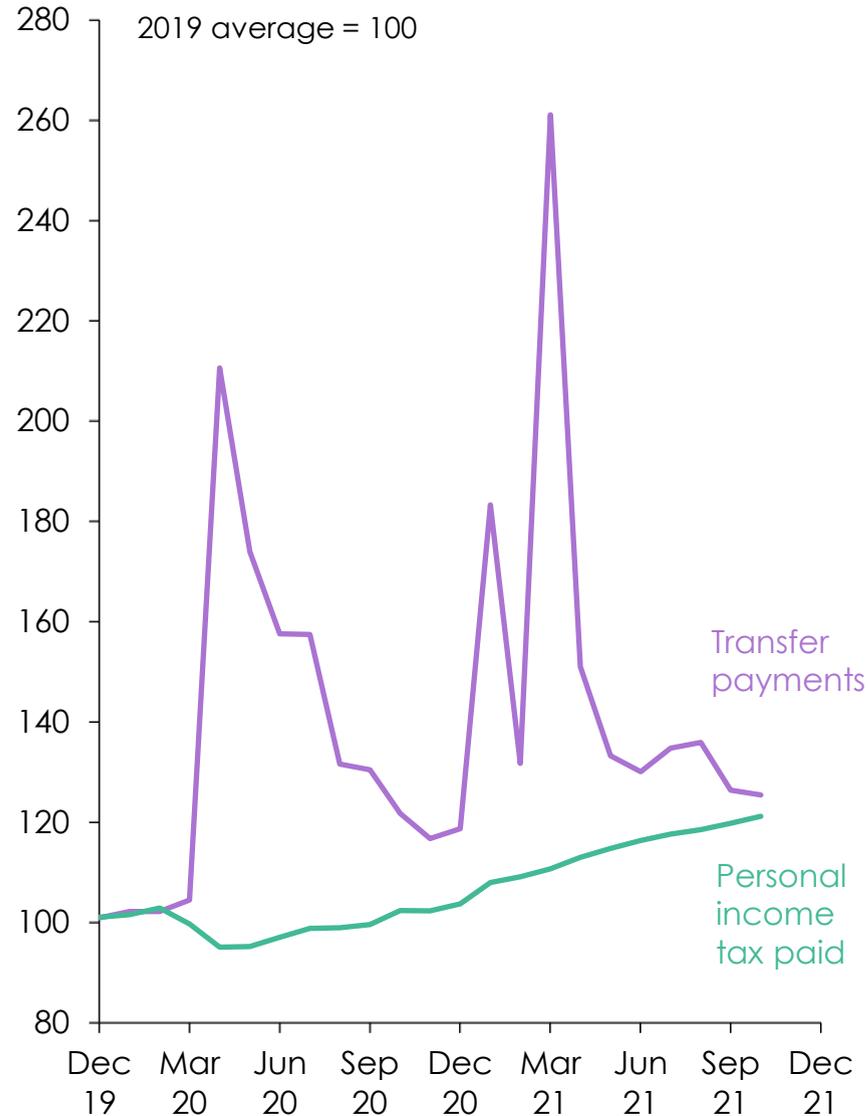
Federal budget balance



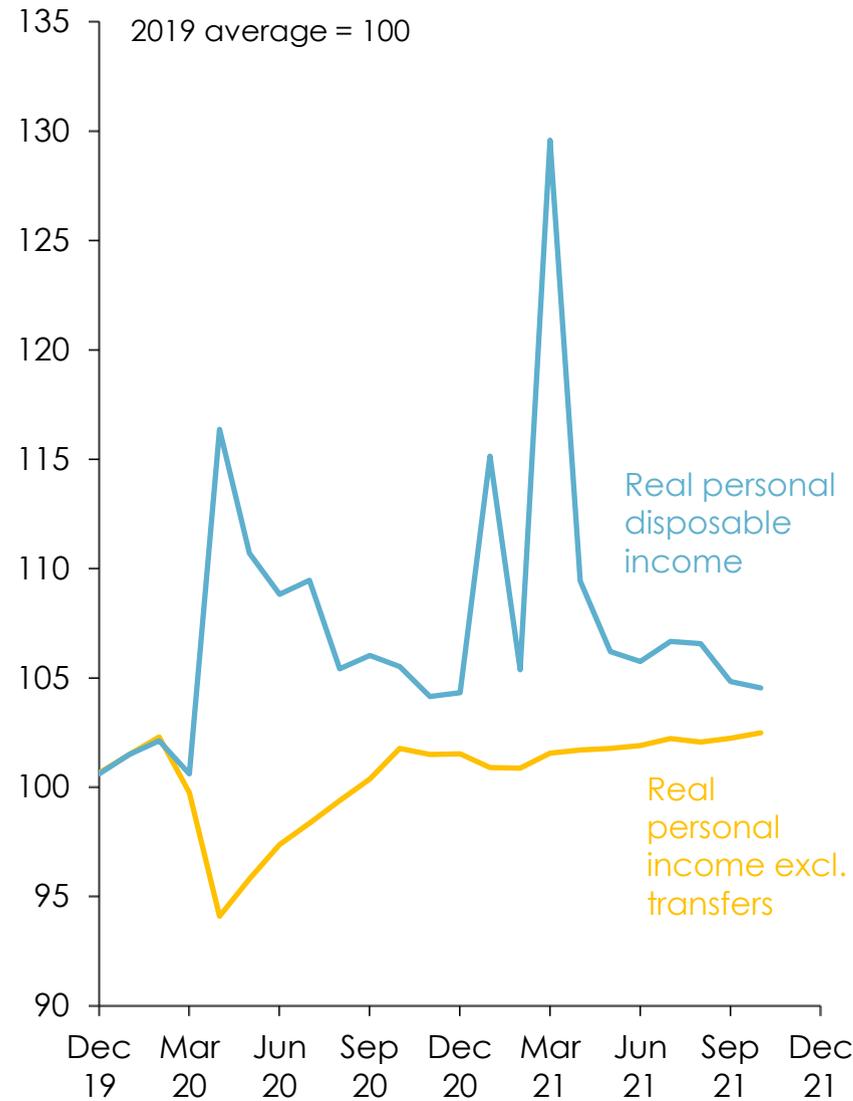
Note: 'average post-war recession' is the average of figures for each of the eleven post-war US recessions as designated by the [National Bureau of Economic Research Business Cycle Dating Committee](#), with the exception of the recession of January-July 1980; 'peak quarter' is the quarter in which real GDP attained its highest level before the onset of the recession. All variables in the charts above are in 2012 chain volumes except for the personal saving ratio and budget deficit; after-tax profits are 'economic' rather than 'book' profits; labour productivity is for the non-farm business sector. Sources: US [Bureau of Economic Analysis](#); [Bureau of Labor Statistics](#). [Return to "What's New"](#).

With their incomes bolstered by government payments, US consumers have splurged on durable goods – a key source of price pressures

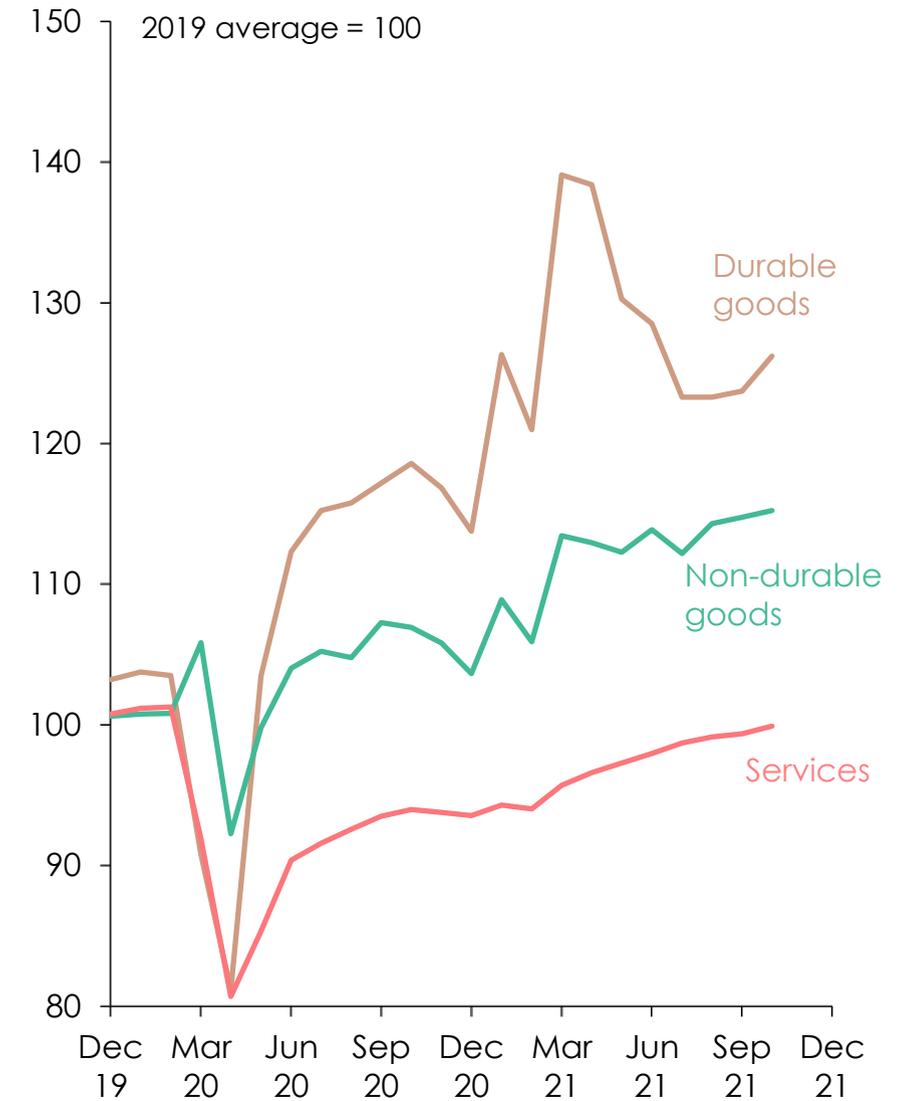
Tax and transfer payments



Real personal income

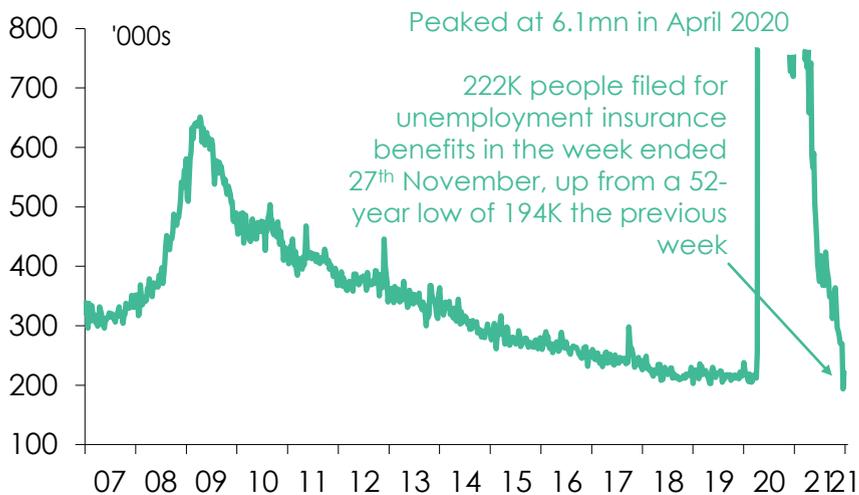


Real consumption expenditure

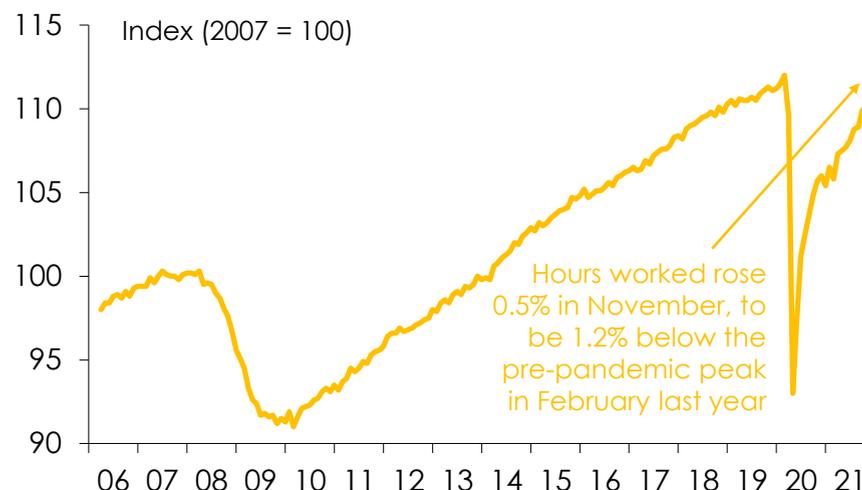


US non-farm payrolls rose by only 210K (0.1%) in November, although the unemployment rate dropped to 4.2%

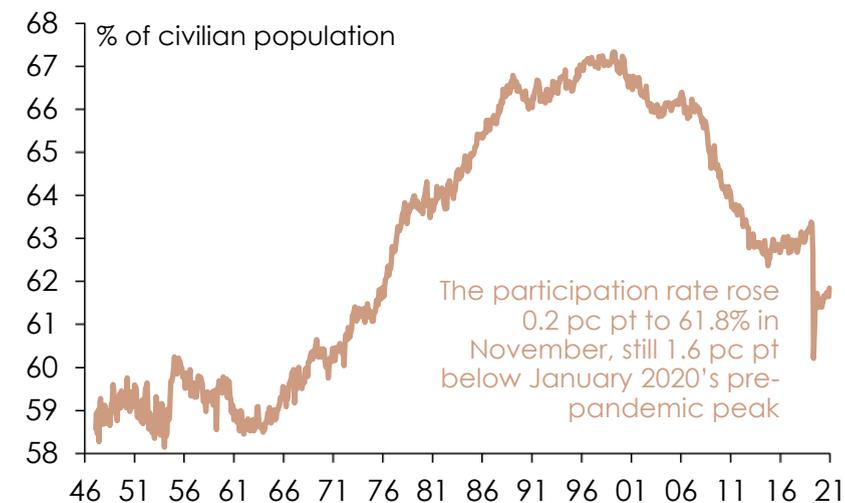
Unemployment benefit claims



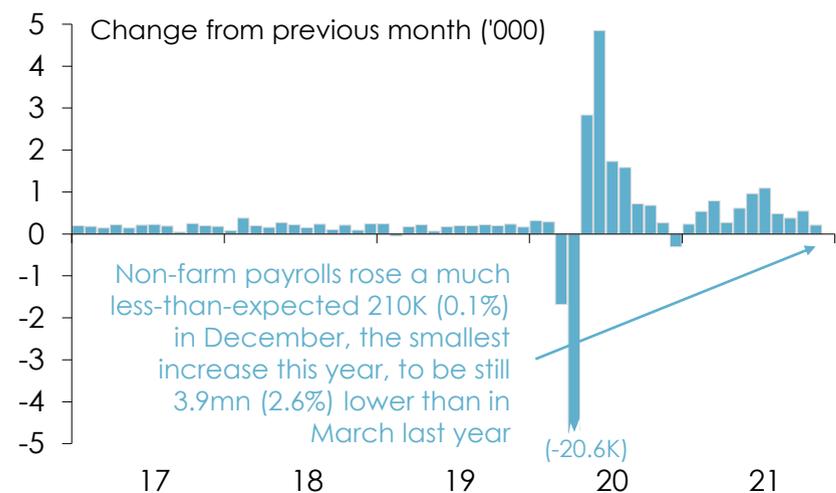
Hours worked (private sector)



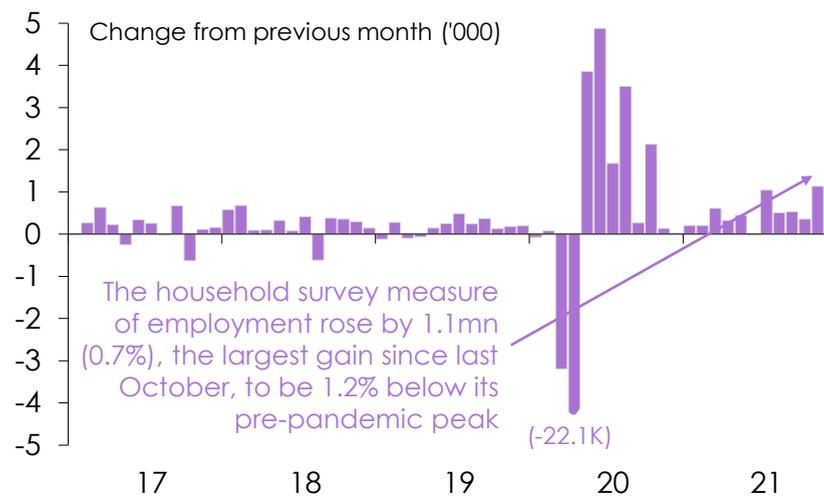
Labour force participation rate



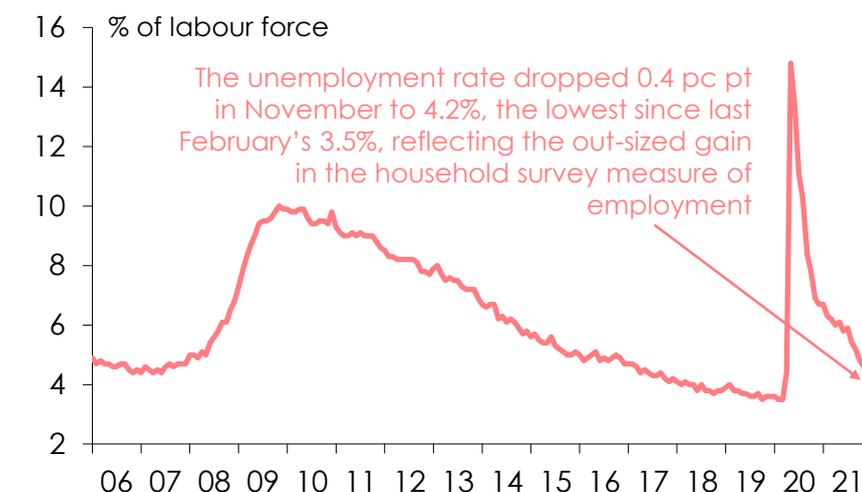
Non-farm payroll employment



Household survey employment



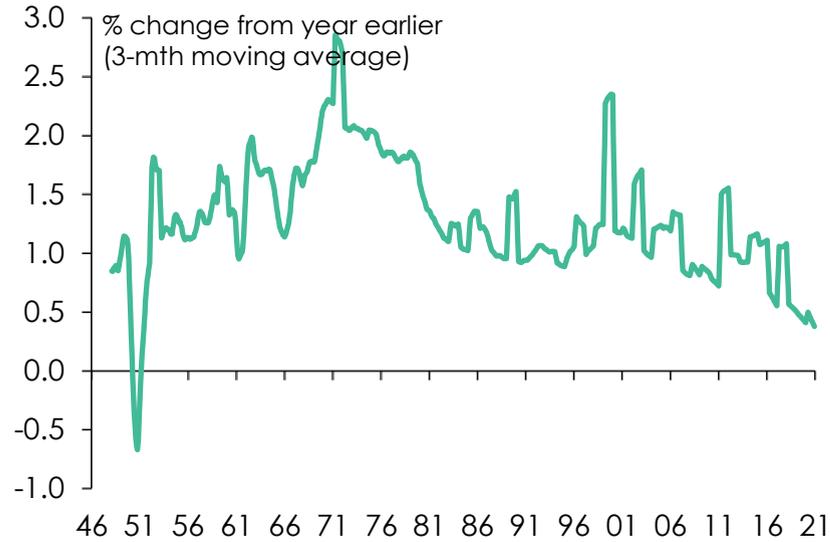
Unemployment rate



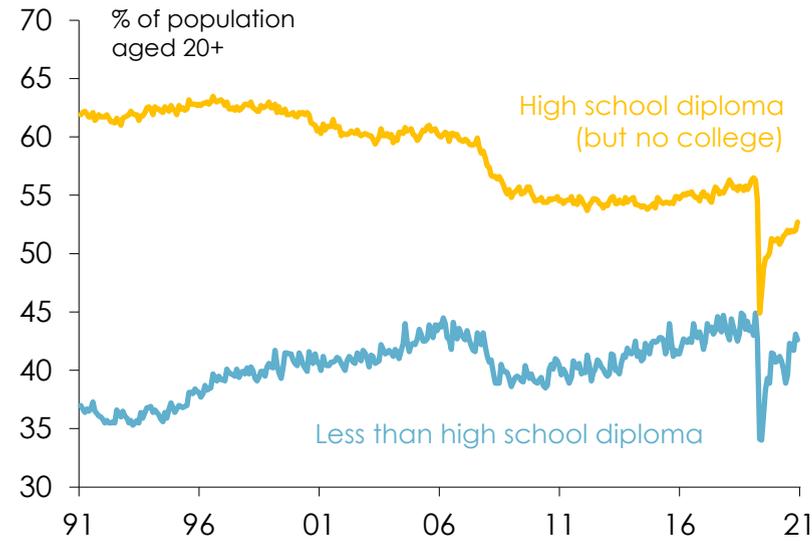
Sources: US [Department of Labor](#); US [Bureau of Labor Statistics](#); National Bureau of Economic Research [Macro History database](#). December employment and other labour force data will be released on 7th January 2022. [Return to "What's New"](#).

US labour market tightness owes a lot to restrictions on immigration, and to barriers to the return to the labour market of specific groups

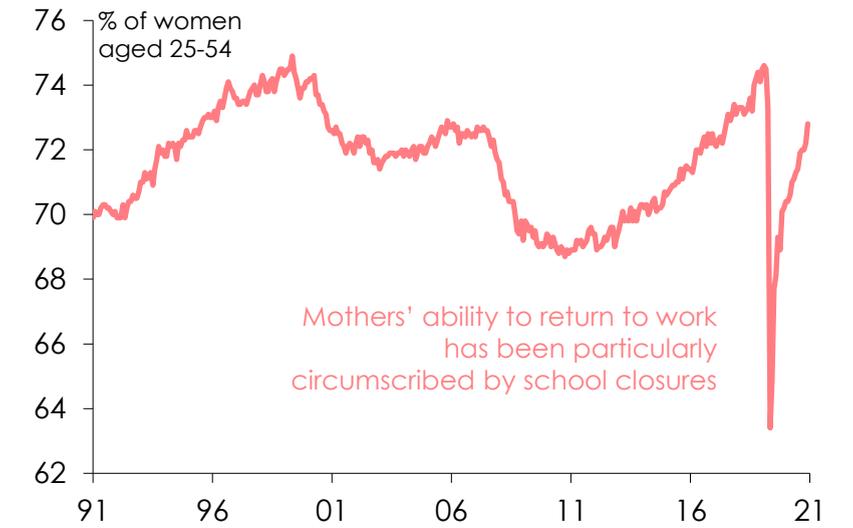
Civilian working age population



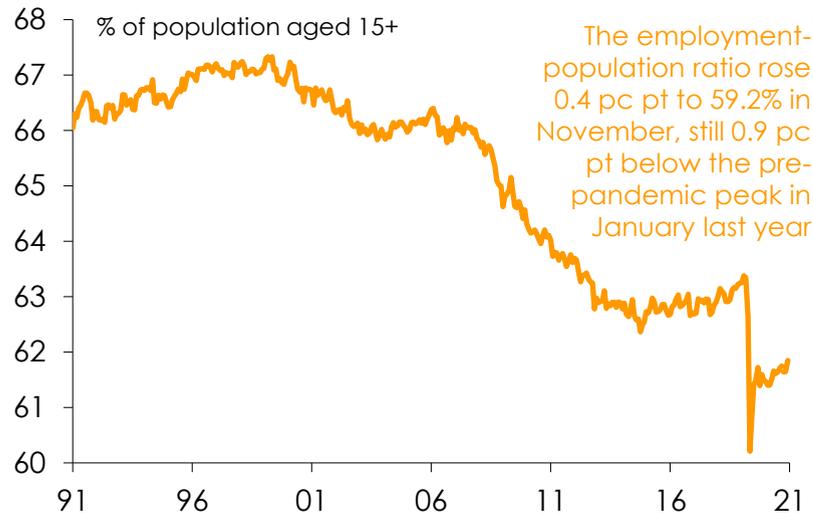
'E-pop' ratio – by education



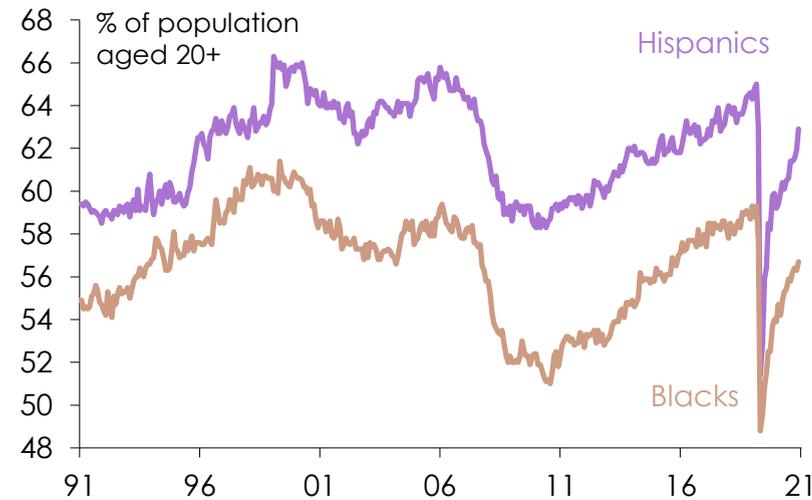
'E-pop' ratio – women 25-54



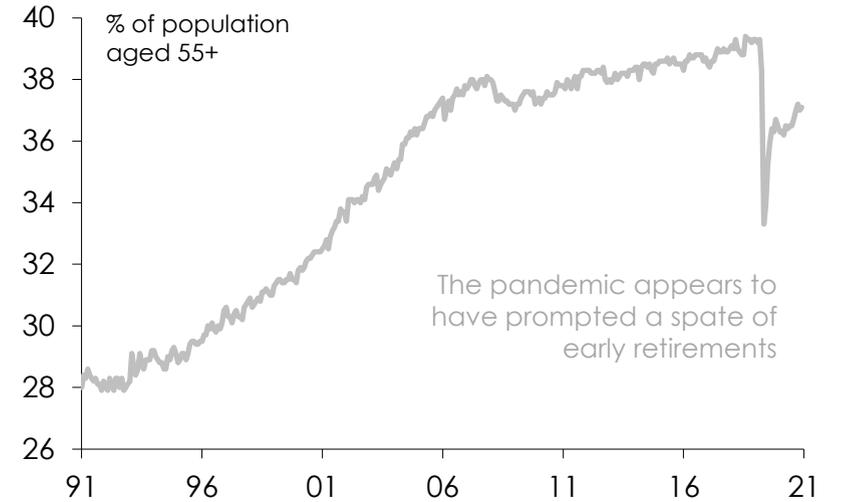
Employment-to-population ratio



'E-Pop' ratio – Blacks & Hispanics



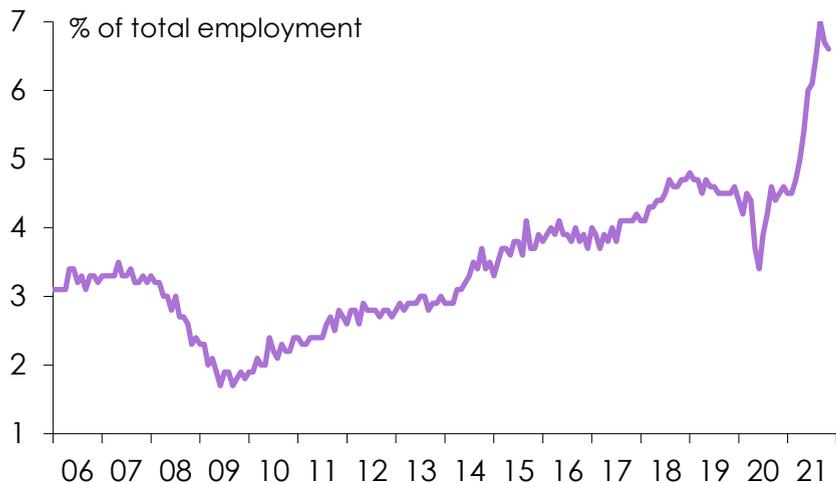
'E-pop' ratio – people 55 & over



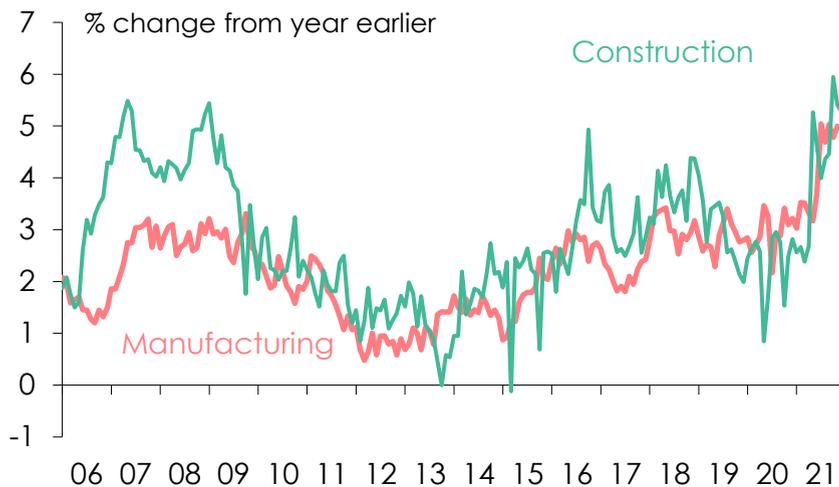
Source: US Bureau of Labor Statistics, [Current Employment Statistics](#).

The so-called 'Great Resignation' may mean the non-accelerating inflation rate of unemployment ('NAIRU') is higher than the Fed thinks

Job openings



Average hourly earnings



Overall wages growth - monthly

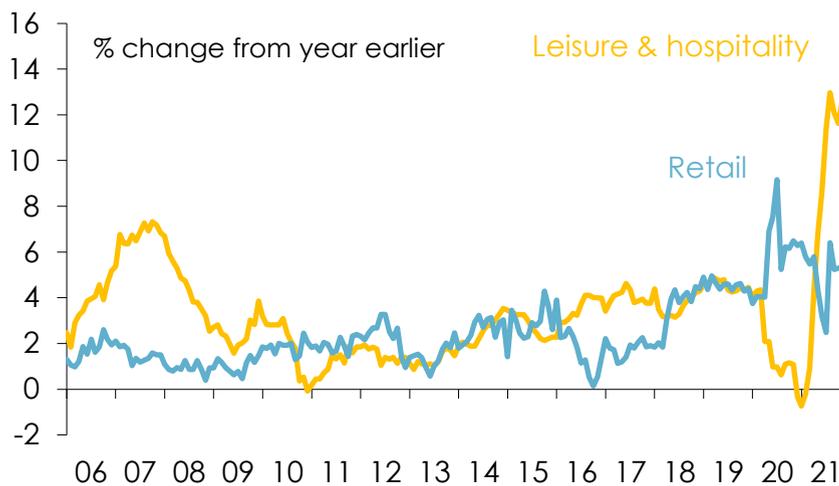


Quit rate

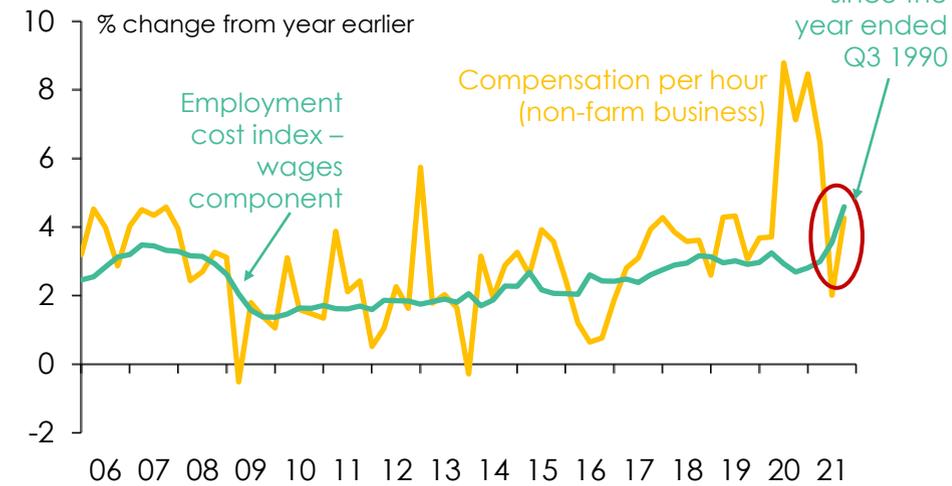


The record high 'quit rate' is the main evidence for the so-called 'Great Resignation' – although the 'record' only goes back to January 2001, and there would seem to be an element of 'catch-up' for this year for the unusually low rate last year

Average hourly earnings



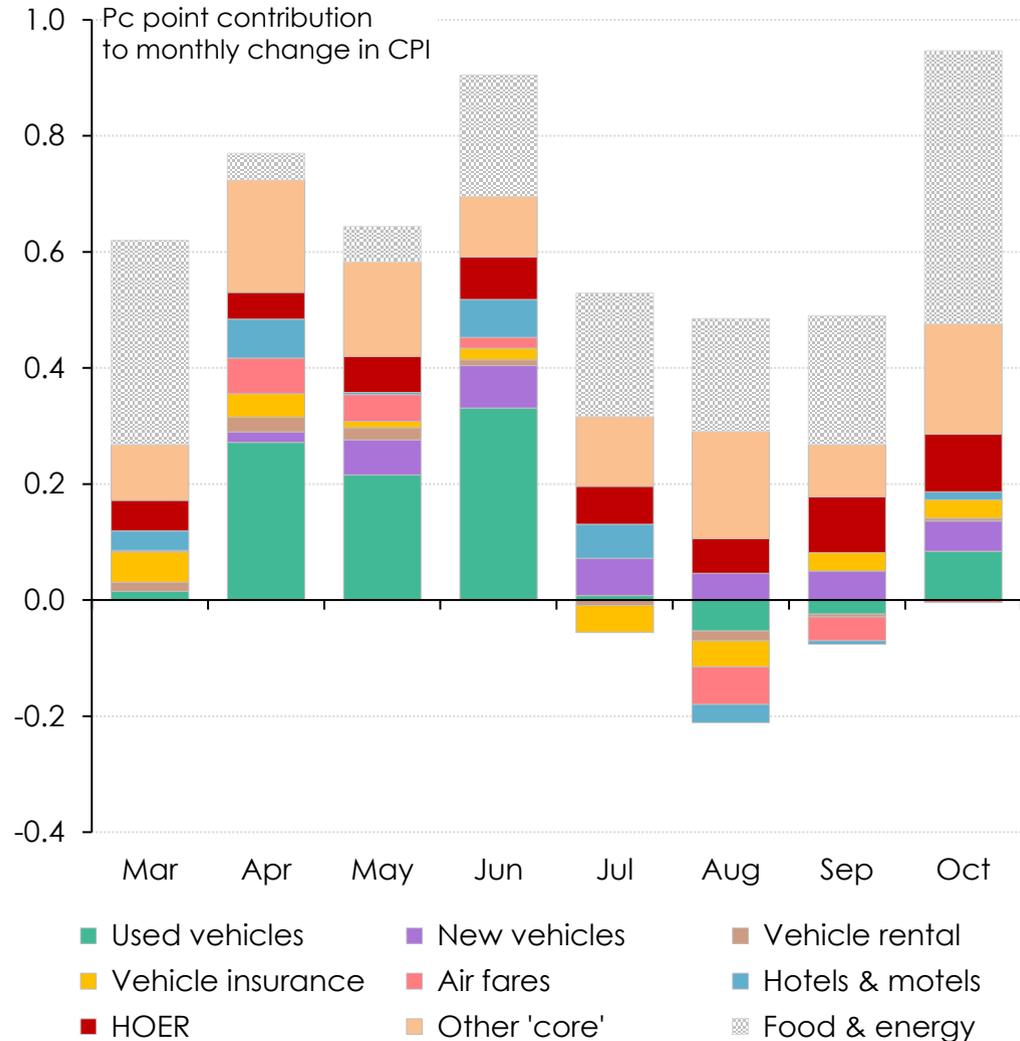
Wages growth - quarterly



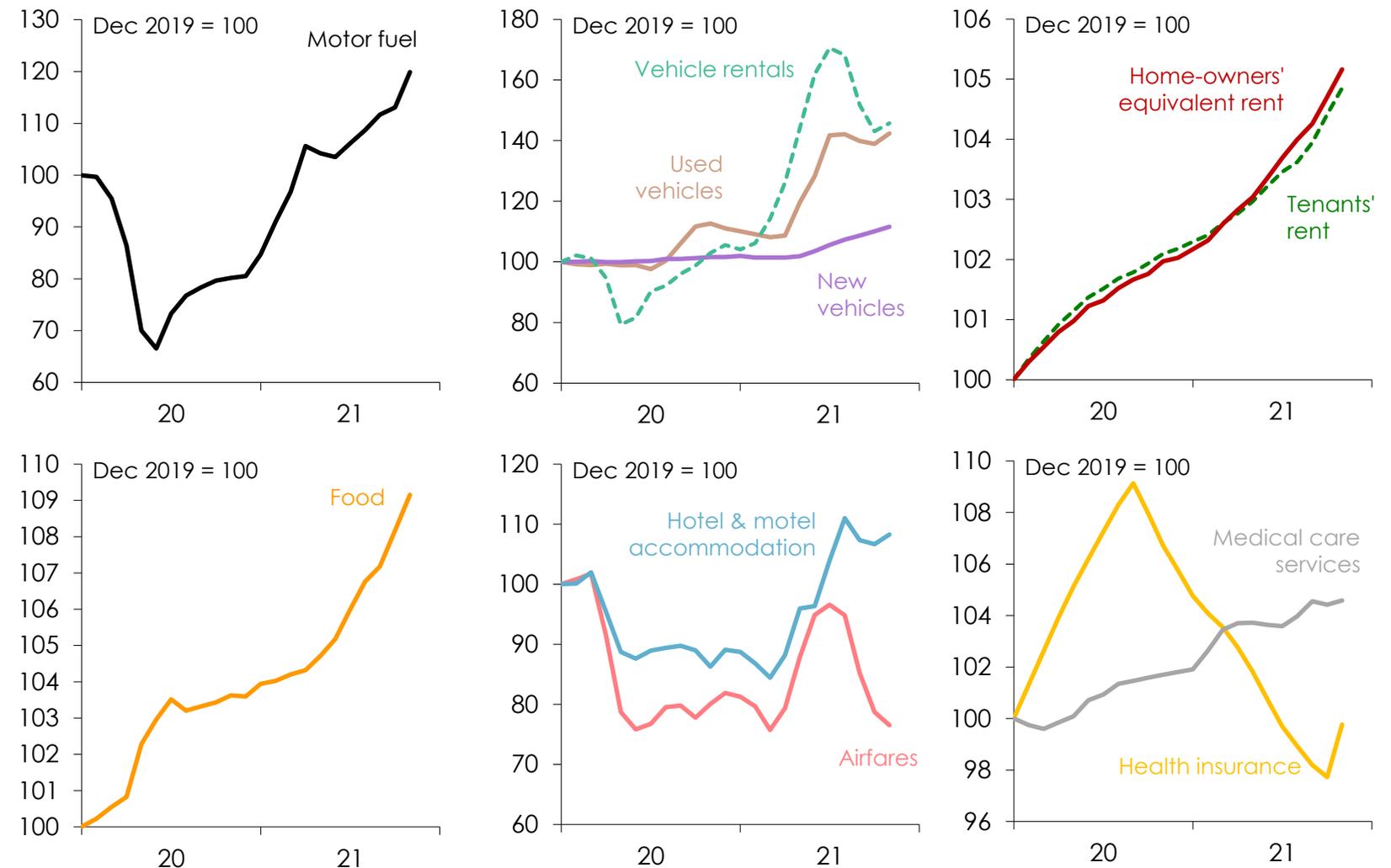
Note: Measures of average hourly earnings (especially the all-industries measures) and of average compensation per hour are affected by changes in the composition of employment (so for example they rose sharply in Q2 2020 when large numbers of low-paid workers were laid off and fell markedly when they returned to work) whereas the Atlanta Fed 'wage growth tracker' (which tracks the wage growth of individuals) and the wages component of the ECI (which is very similar to the ABS' Wage Price Index) are not. Sources: US Bureau of Labor Statistics, [Job Openings and Labor Turnover Survey](#), [Current Employment Statistics](#), [Employment Cost Trends](#) and [Labor Productivity and Costs](#). [Return to "What's New"](#).

Most of the contributors to the 'spike' in 'core' inflation earlier this year have since abated – but higher inflation is now becoming more broadly-based

Contributions to recent monthly changes in CPI excluding food and energy



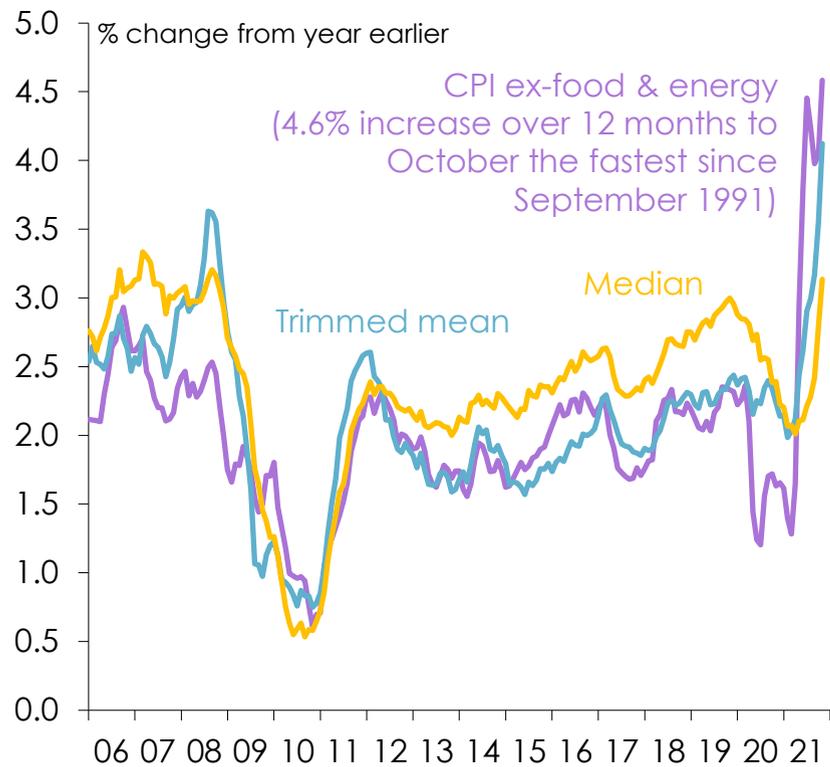
Price indices for items which have contributed most to recent monthly changes in the 'core' US CPI (rebased to December 2019 = 100)



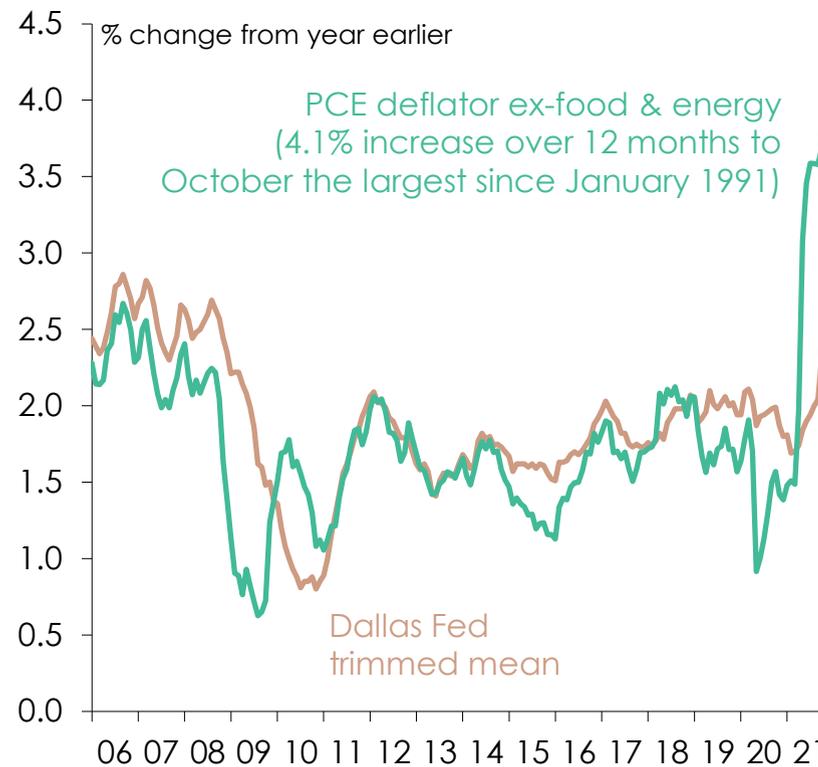
Note: 'HOER' = home-owners' equivalent rent (a measure of the 'imputed rent' notionally paid by owner-occupiers to themselves), and which accounts for 28½% of the CPI excluding food and energy. Source: US Bureau of Labor Statistics, Consumer Price Index Table 6; Corinna. [Return to "What's New"](#).

'Statistical' measures of 'underlying' inflation are also beginning to pick up – although longer-term inflation expectations remain 'well anchored'

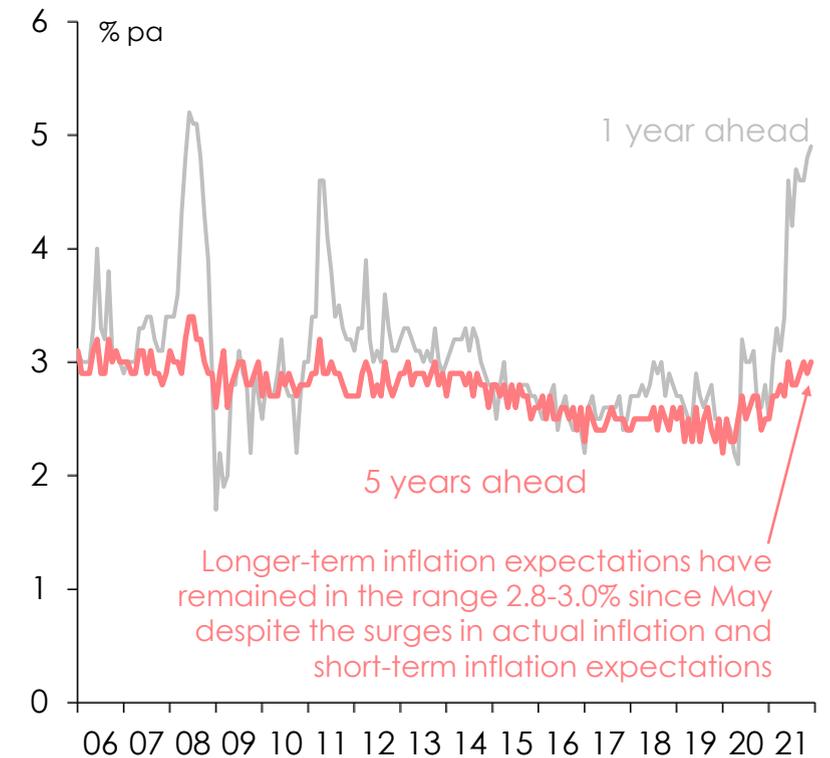
Alternative measures of US 'core' CPI inflation



Alternative measures of US 'core' PCE deflator inflation



Household inflationary expectations



❑ Statistical measures of 'underlying' CPI inflation are now rising more rapidly – the annual 'trimmed mean' inflation rate in October was the highest since July 1991

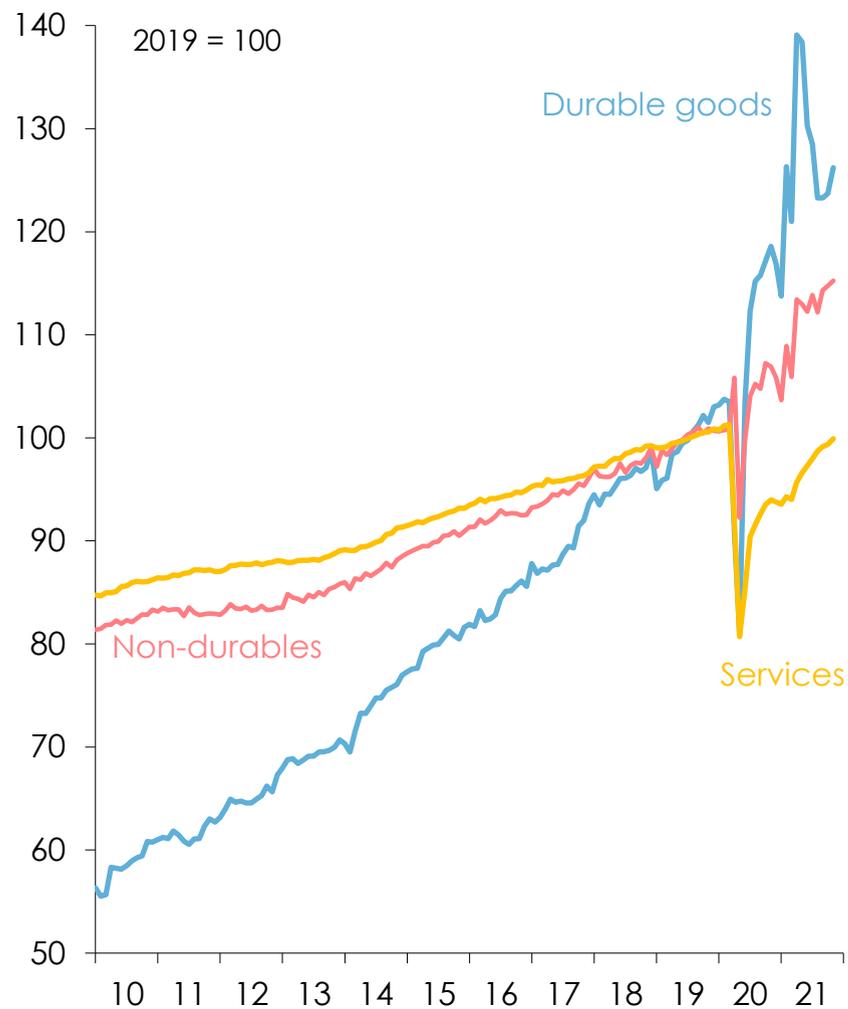
❑ The trimmed mean measure of 'underlying' PCE deflator inflation has also picked up in recent months (although not nearly as much as the trimmed mean CPI)

❑ Short-term household inflation expectations have risen sharply, but the Fed will draw some comfort from the fact that longer-term expectations remain "well-anchored"

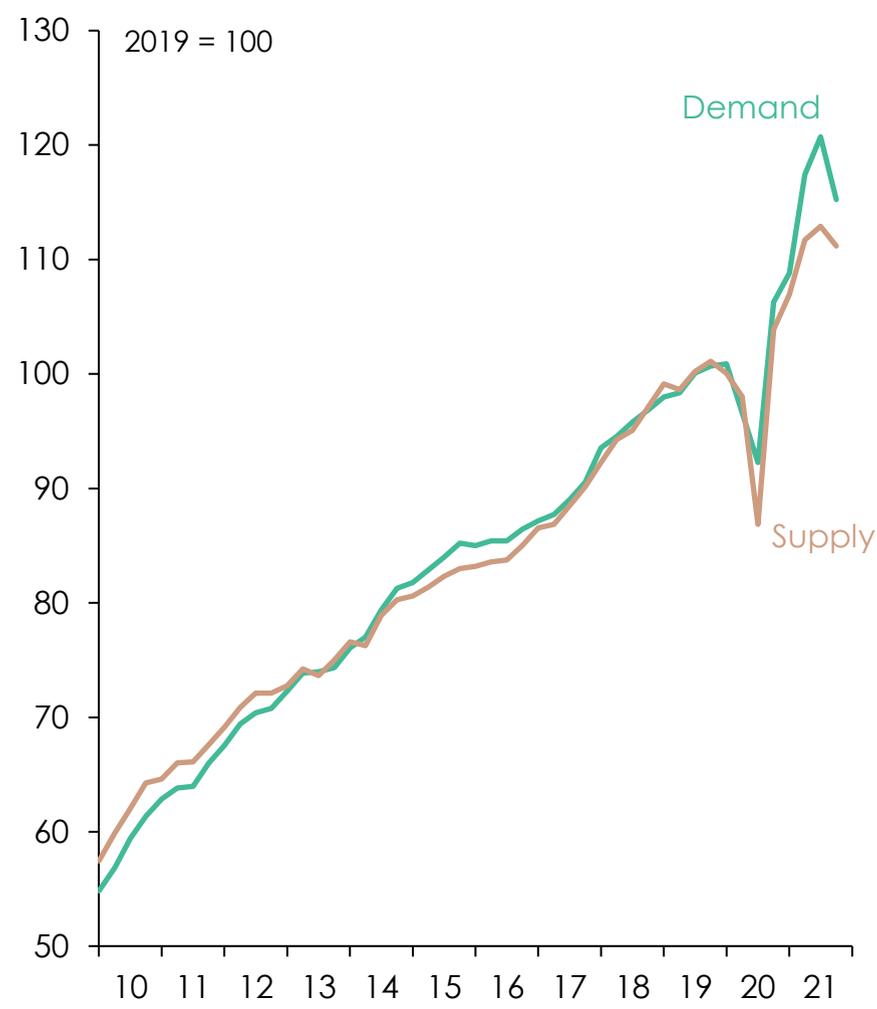
Note: The 'trimmed mean' CPI inflation rate excludes the components of the CPI whose weights fall in the top and bottom 8% of the distribution of price changes; the median is the component whose price change is in the middle of the distribution of price changes. The 'trimmed mean' of the PCE deflator excludes 24% by weight from the lower tail and 31% by weight from the upper tail of the ranked distribution of price changes. Sources: [US Bureau of Economic Analysis](#); [Federal Reserve Bank of Cleveland](#); [Federal Reserve Bank of Dallas](#); and [Michigan University Survey Research Center](#). [Return to "What's New"](#).

The rise in inflation as measured by the PCE deflator is largely attributable to the imbalance between demand for and supply of durable goods

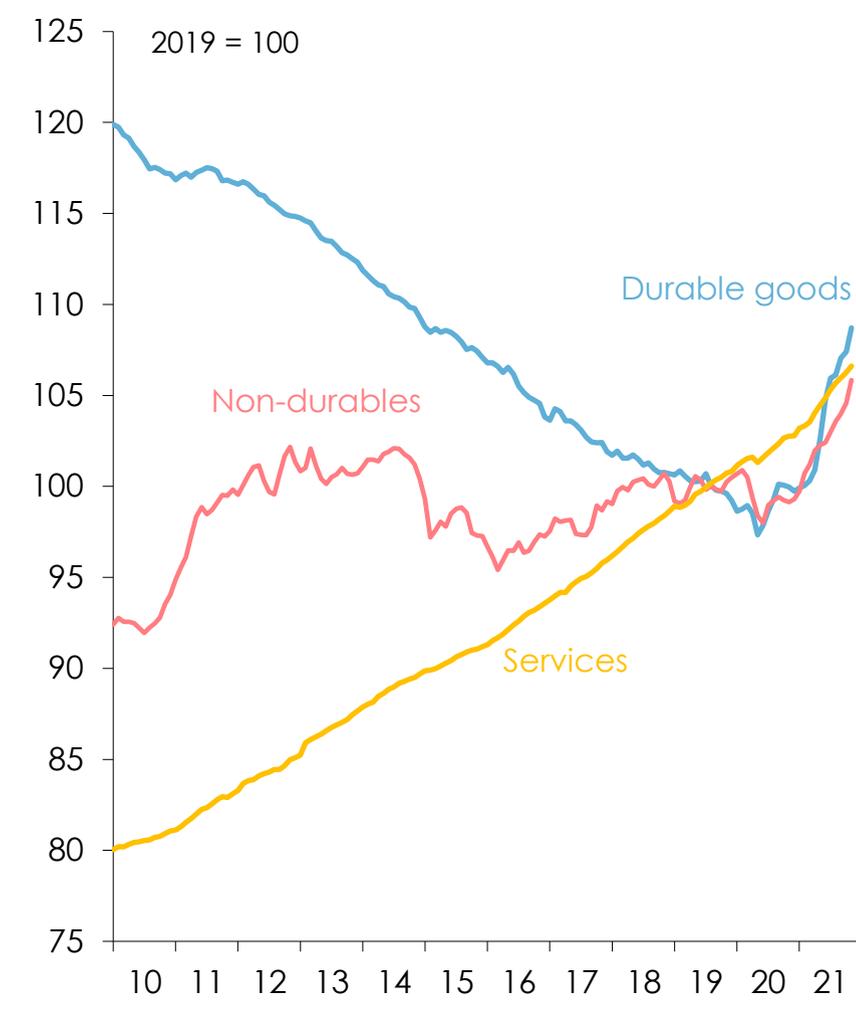
Composition of personal consumption expenditures



Aggregate demand for and supply of durable goods



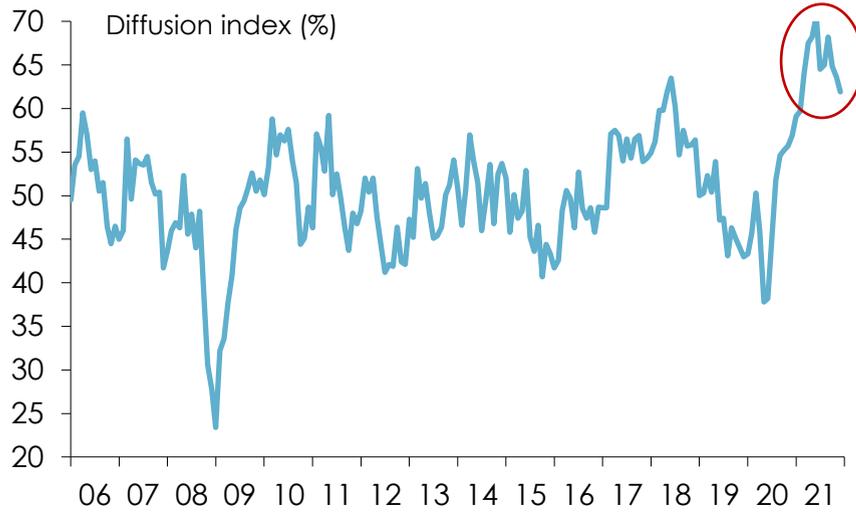
Implicit price deflators of personal consumption



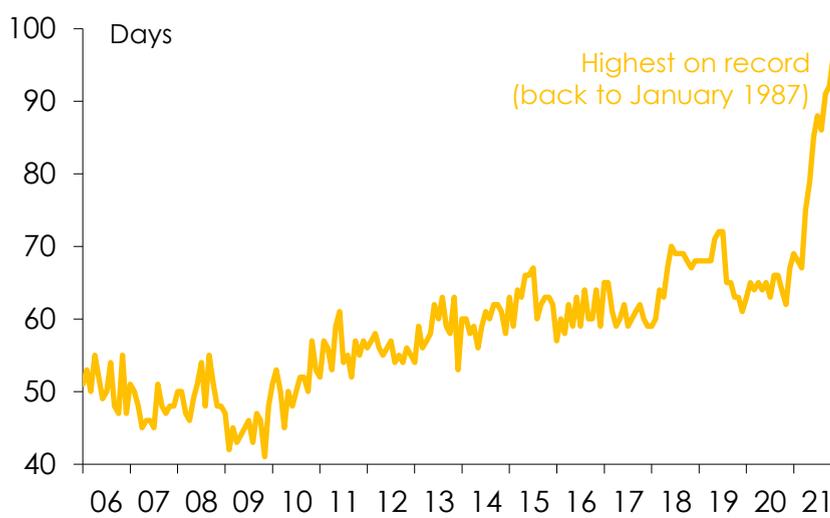
Note: 'Aggregate demand' for durable goods comprises personal consumption of durable goods plus business investment in equipment. 'Aggregate supply' of durable goods comprises gross domestic product (final sales plus change in inventories) plus net imports of durable goods. Sources: US Bureau of Economic Analysis, [National Income and Product Accounts](#), Tables 2.8.3-5, 1.1.6, 1.2.6 and 4.2.6. [Return to "What's New"](#).

There have been some serious supply-chain difficulties in the US – particularly in the auto sector – but they may have now peaked

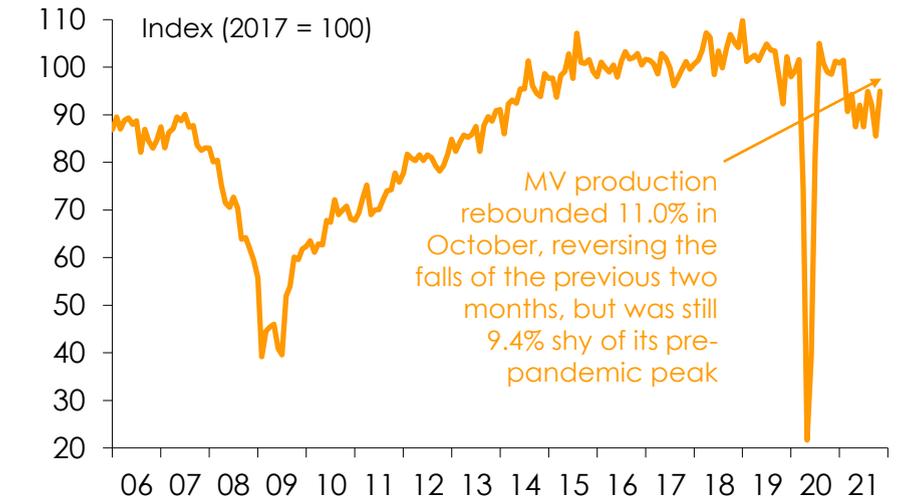
Manufacturers' order backlogs



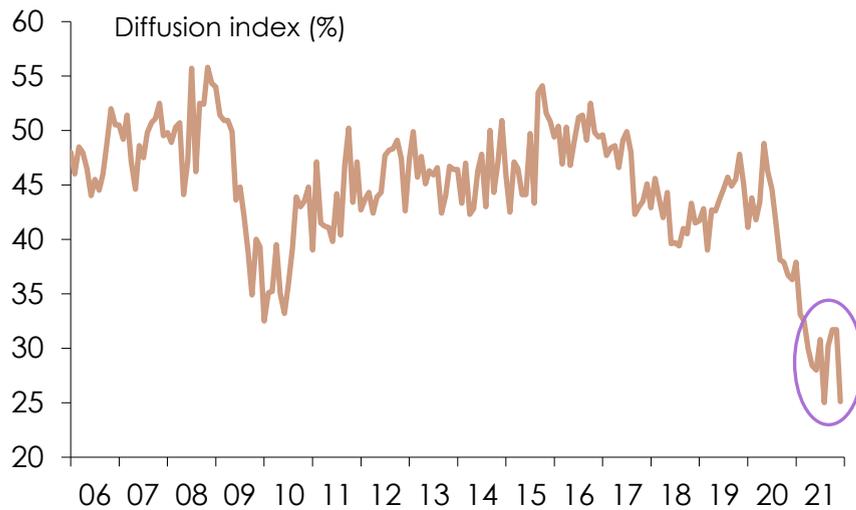
Lead-time for production materials



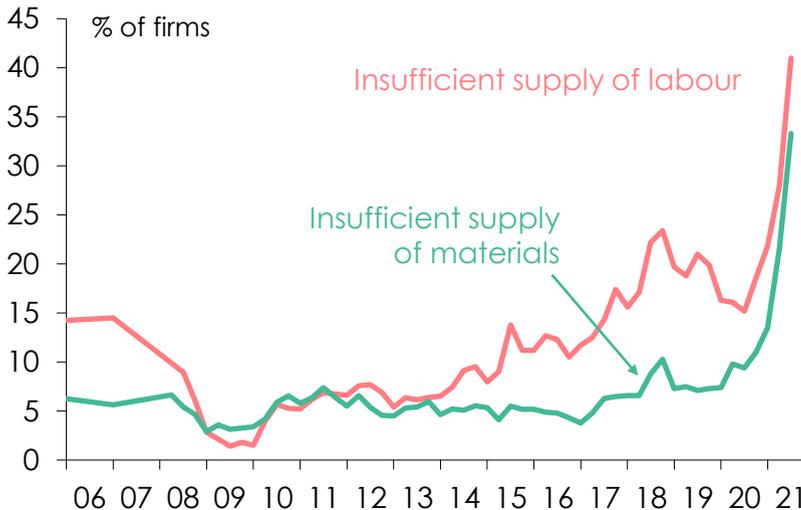
Motor vehicles & parts production



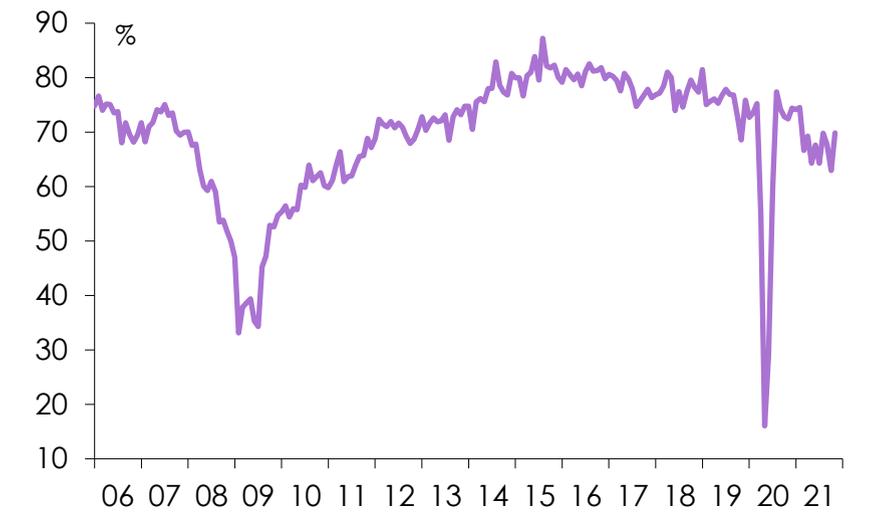
Manufacturers' customer inventories



Reasons for < full capacity



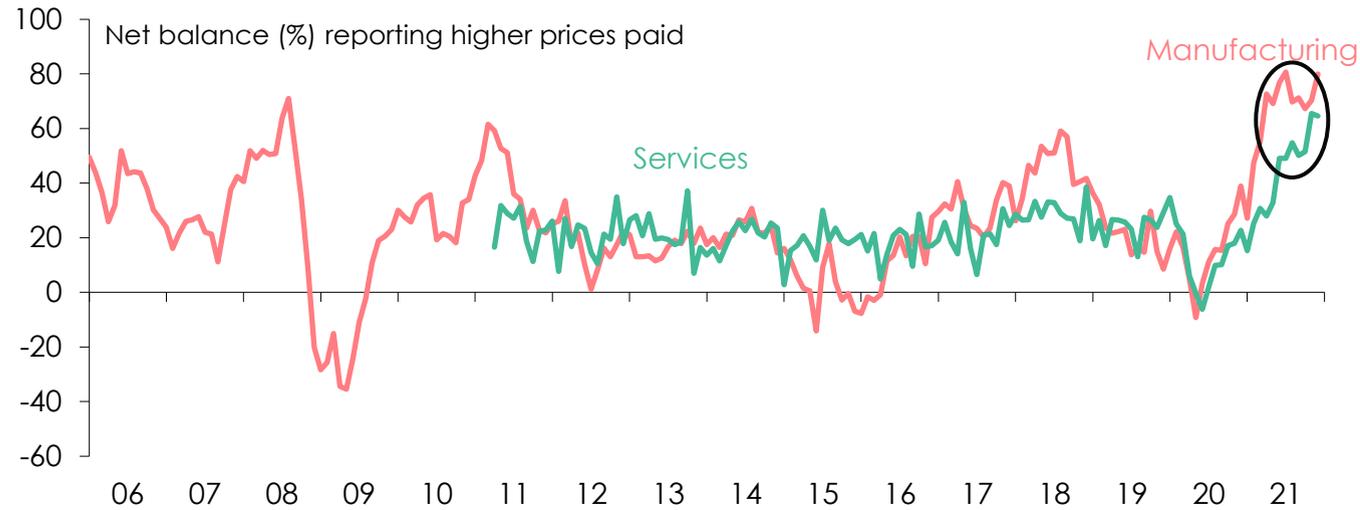
Auto industry capacity utilization



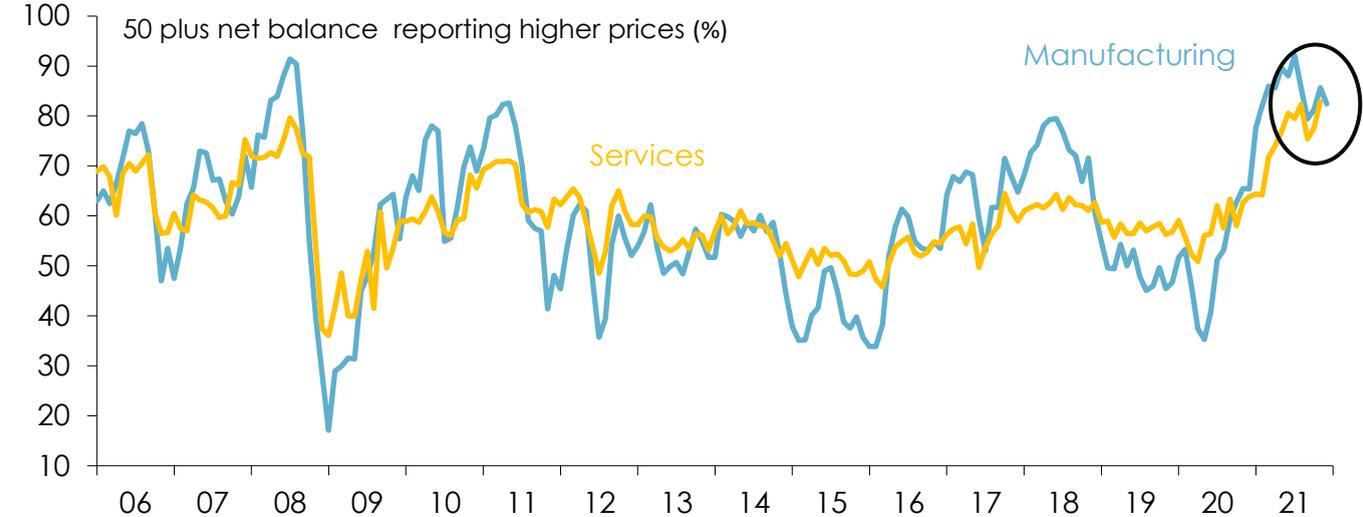
Note: The diffusion index of order backlogs is 50 plus the percentage of respondents reporting longer backlogs minus the percentage reporting shorter backlogs (and similarly for customer inventories). 'Reasons for < full capacity' means reasons for operating at less than full capacity. Sources: Institute for Supply Management, [Report on Business](#); US Census Bureau, [Quarterly Survey of Plant Capacity Utilization](#); Board of Governors of the Federal Reserve System, [Industrial Production and Capacity Utilization - G17](#). [Return to "What's New"](#).

The November Philadelphia Fed and ISM surveys point to renewed upward pressure on 'upstream' prices, in contrast to the two previous months

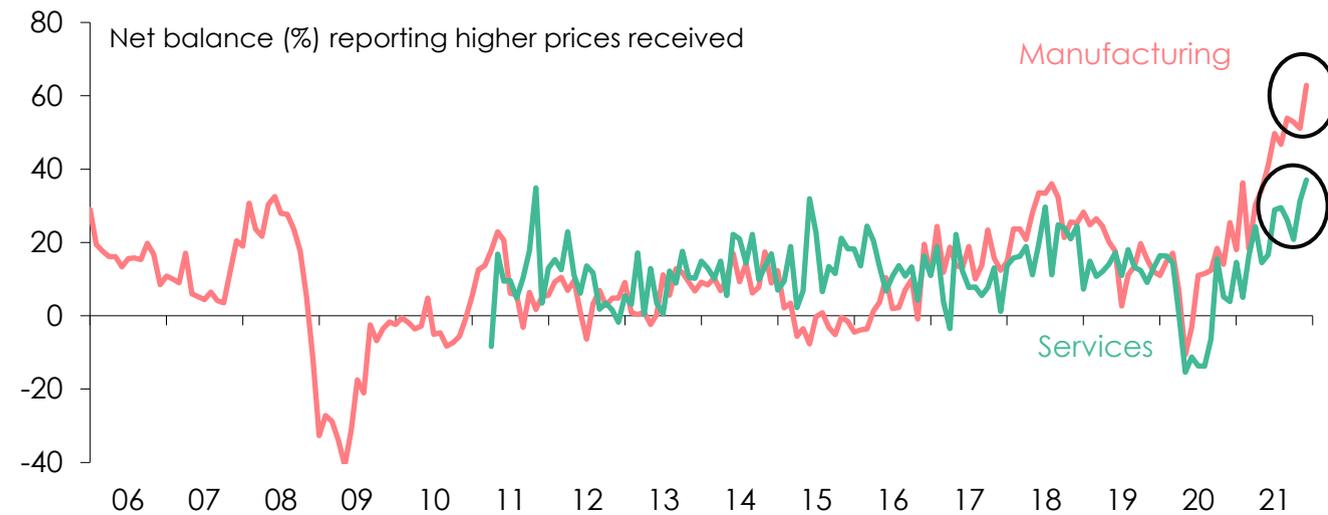
Philadelphia Fed survey – prices



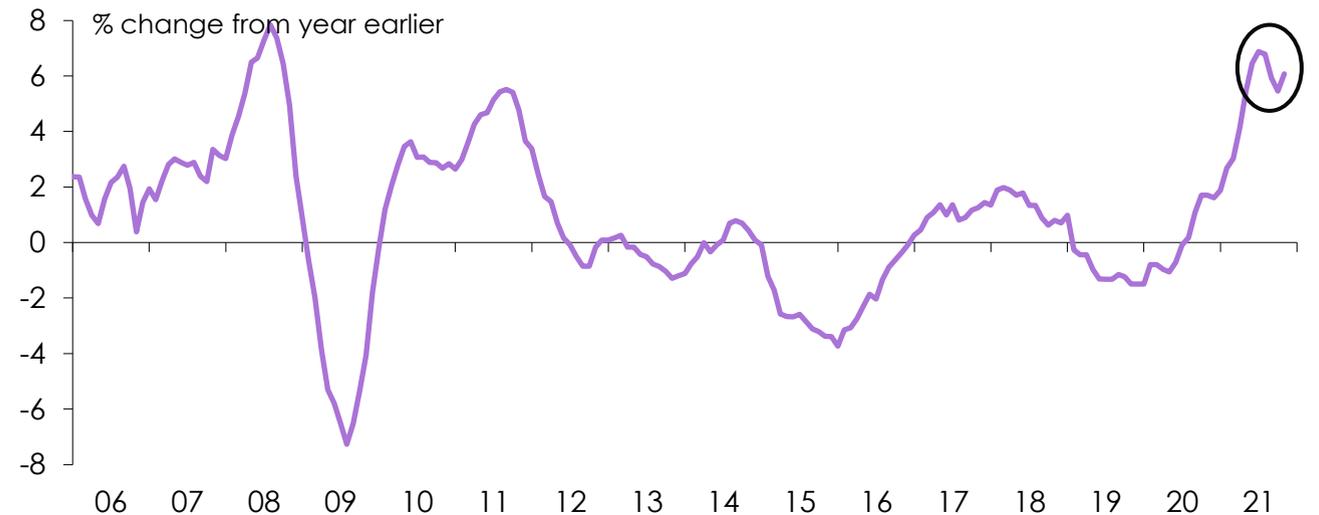
ISM survey – prices paid



'Philadelphia Fed survey – prices received



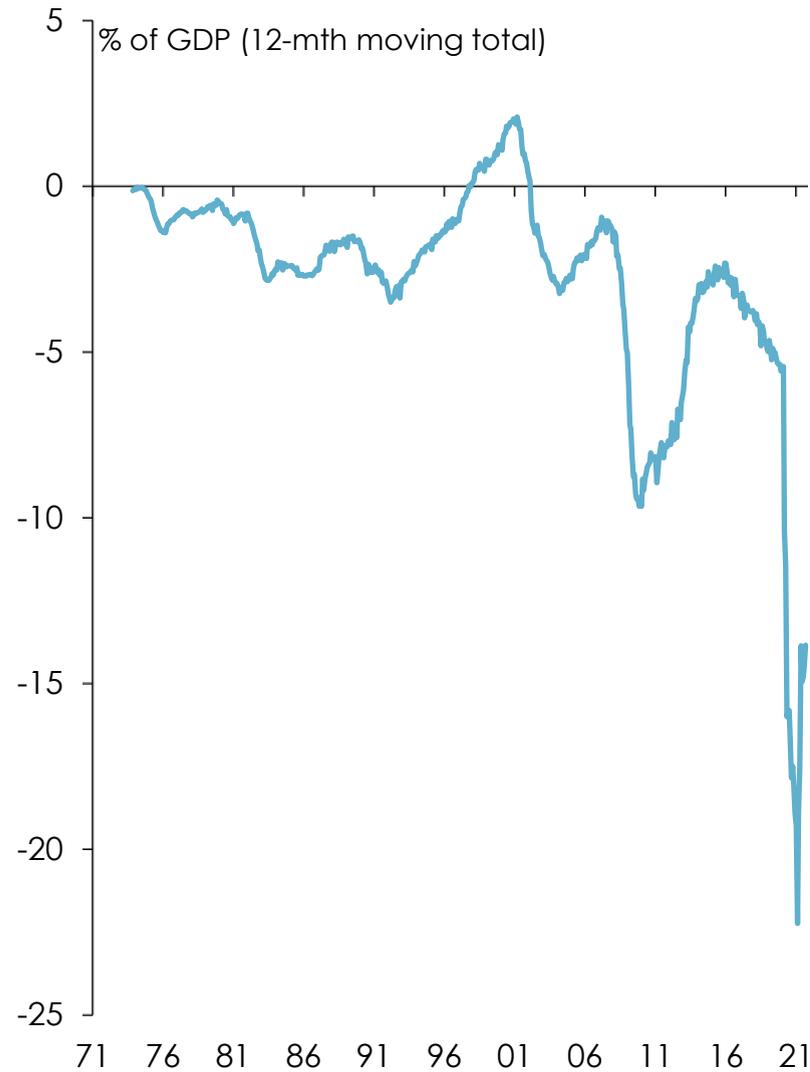
Import prices (excluding petroleum)



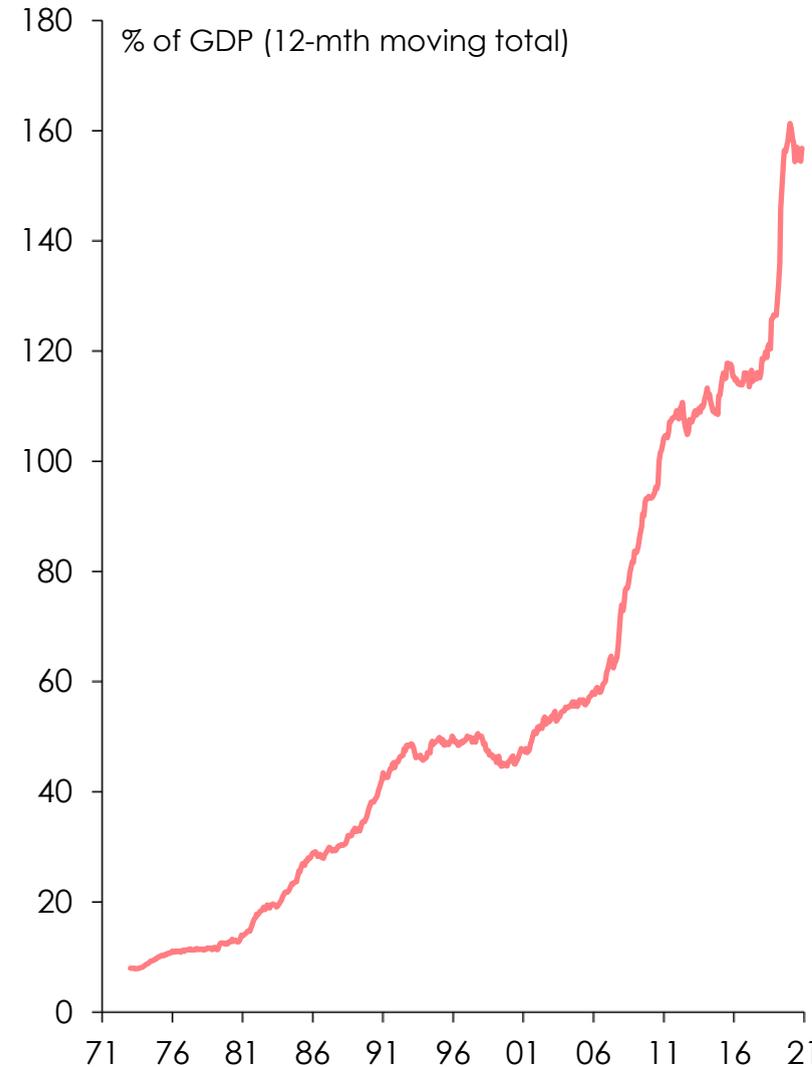
Note: The usefulness of the Business Outlook surveys conducted by the Federal Reserve Bank of Philadelphia is that the area which it covers (eastern and central Pennsylvania, southern New Jersey and Delaware) is a reasonable proxy for the broader US economy. Sources: [Federal Reserve Bank of Philadelphia](#); [Institute for Supply Management](#); [US Bureau of Labor Statistics](#). 'Return to "What's New".'

This week Congress approved a 'continuing resolution' averting a government shutdown at least until mid-February next year

US Federal budget deficit



US gross Federal debt

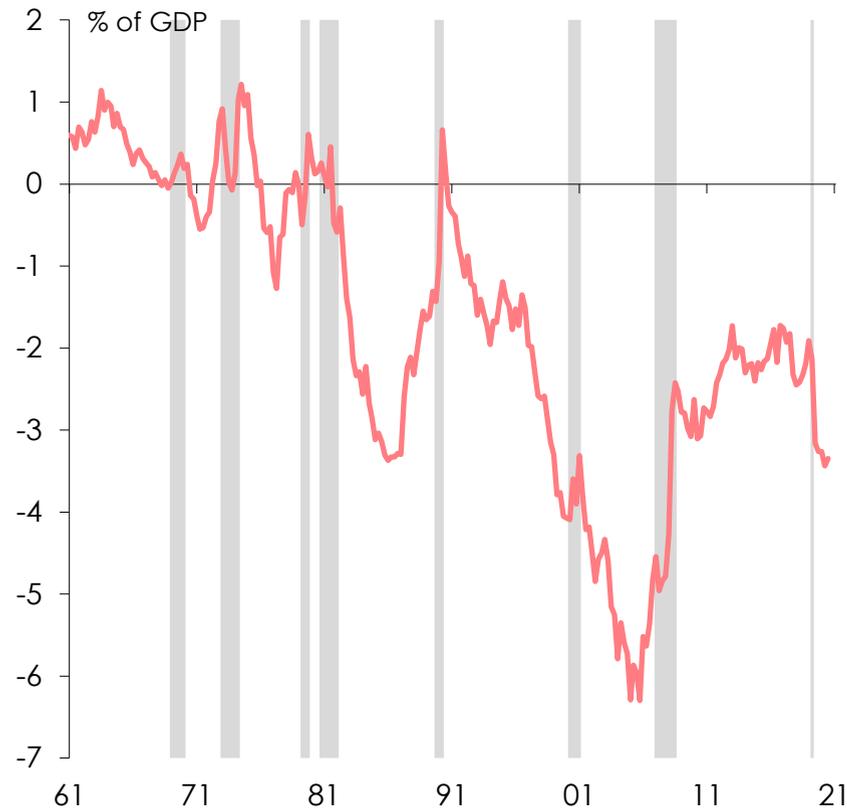


- ❑ The US Federal Government budget deficit widened by US\$104bn to \$165bn in October, although that was considerably less than the \$284bn deficit incurred in October last year
- ❑ For the 12 months ended October the budget deficit totalled \$2.66 trn (13.8% of GDP), down from a peak of \$4.1 trn (22.2% of GDP) in the 12 months ended June
- ❑ The Treasury issued an unusually large amount of debt during October, pushing the market value of total debt on issue up by \$453bn to \$30.0trn (156.8% of GDP) – although \$12.3 trn of this amount is held by the Federal Reserve or US Government trust accounts (eg Social Security)
- ❑ A temporary government shut-down was again averted this week when Congress passed a 'continuing resolution' ensuring funding through to 18th February next year
 - Only one House Republican voted for the continuing resolution, but in the Senate 19 Republicans voted to avoid a shutdown

Note: The measure of US gross federal debt is at market value. Sources: [US Treasury Department](#); [Federal Reserve Bank of Dallas](#); US Bureau of Economic Analysis; [US Congressional Budget Office](#); Corinna. [Return to "What's New"](#).

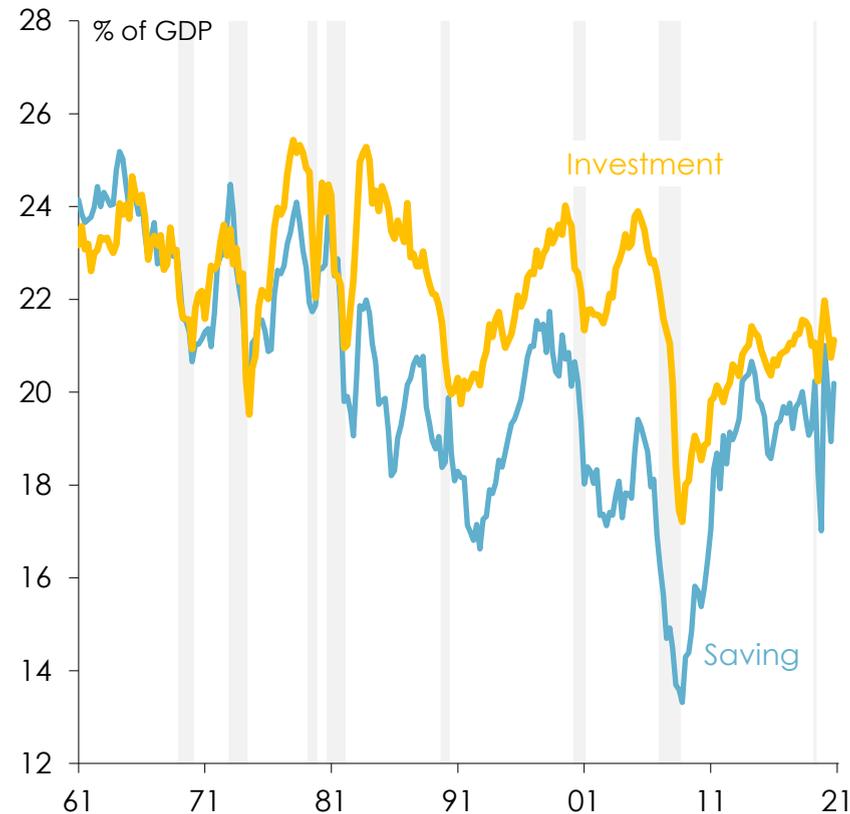
Any 'excess demand' resulting from 'excessive' stimulus is more likely to show up in the US current account deficit than in sustained higher inflation

US current account balance



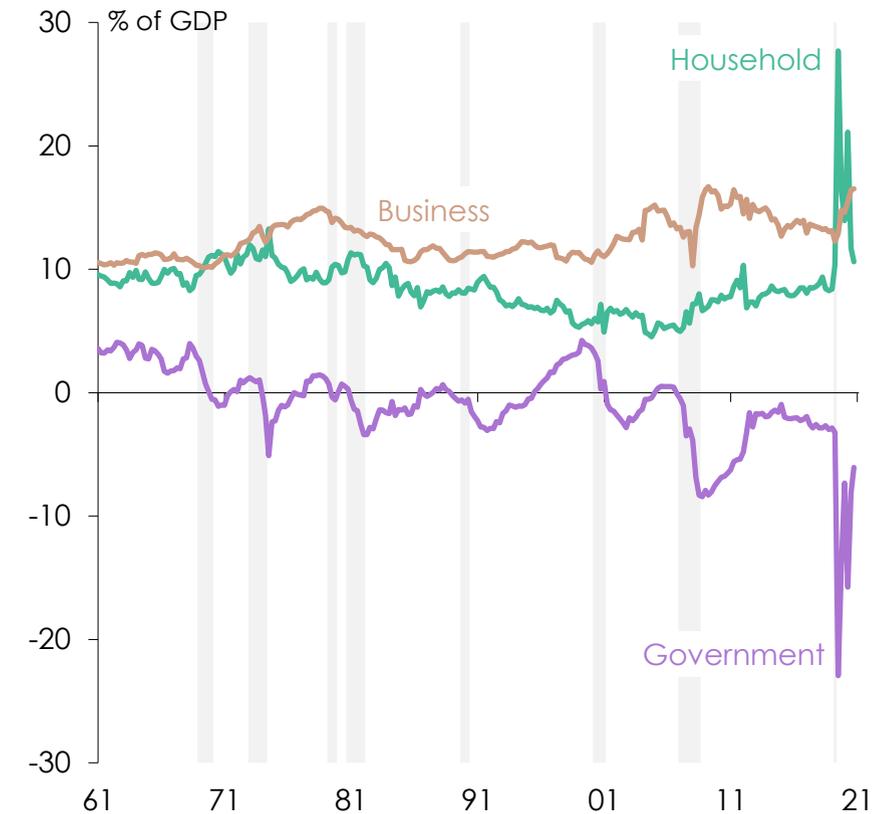
The US current account has *widened* since the recession that began last year – and in the first half of this year has been larger (as a pc of GDP) than at any time since the financial crisis

Gross saving and investment



Investment *didn't* fall much during this recession – perhaps because it didn't rise as much as usual during the preceding expansion (corporate tax cuts notwithstanding)

Gross saving by sector



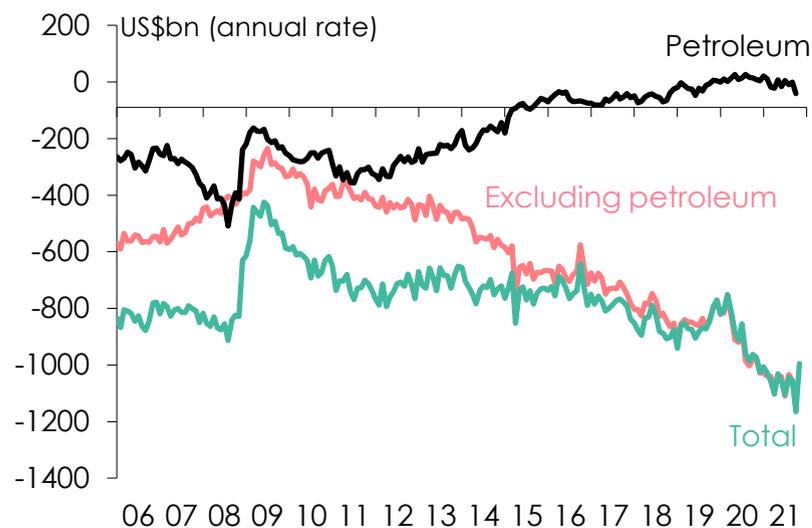
The dramatic increase in the budget deficit has been largely (but not totally) offset by an increase in household saving

Note: shaded areas denote recessions as designated by the US [National Bureau of Economic Research](#). Data up to Q2 2021.

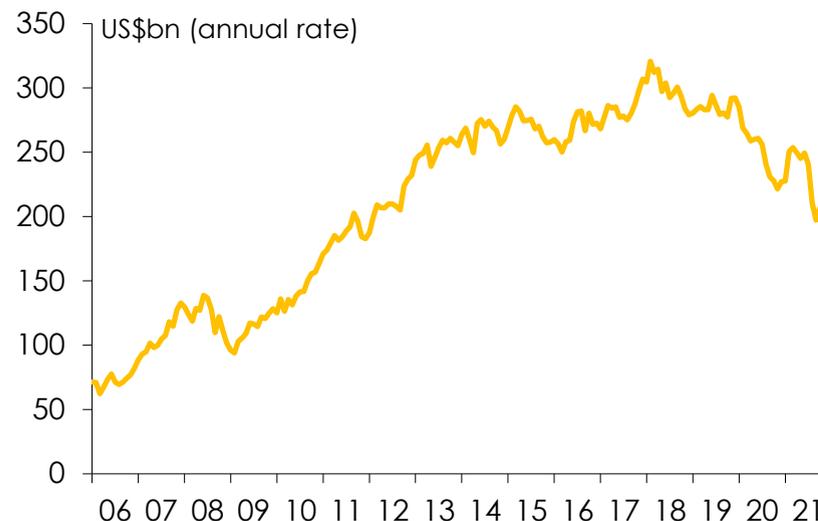
Source: US [Bureau of Economic Analysis](#). [Return to "What's New"](#).

The US goods trade deficit narrowed sharply in October (to its smallest in 12 months) as exports rebounded 11% from a 5% fall in September

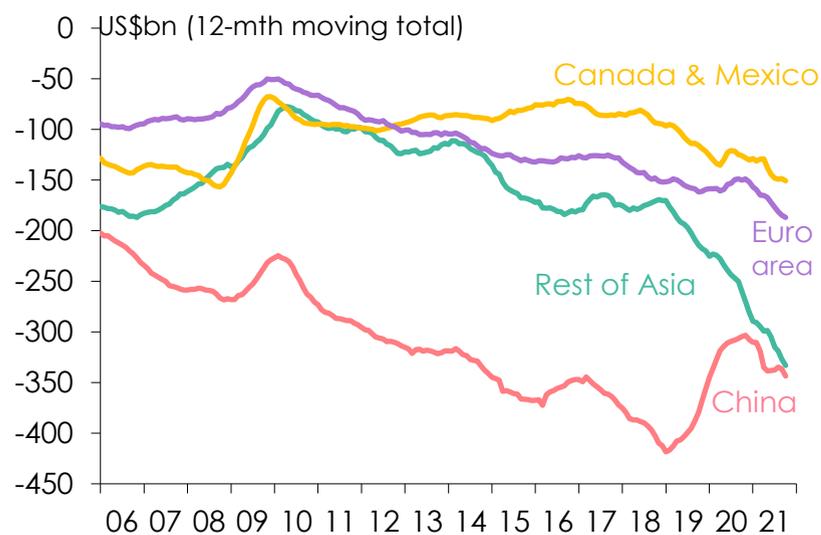
US goods trade balance



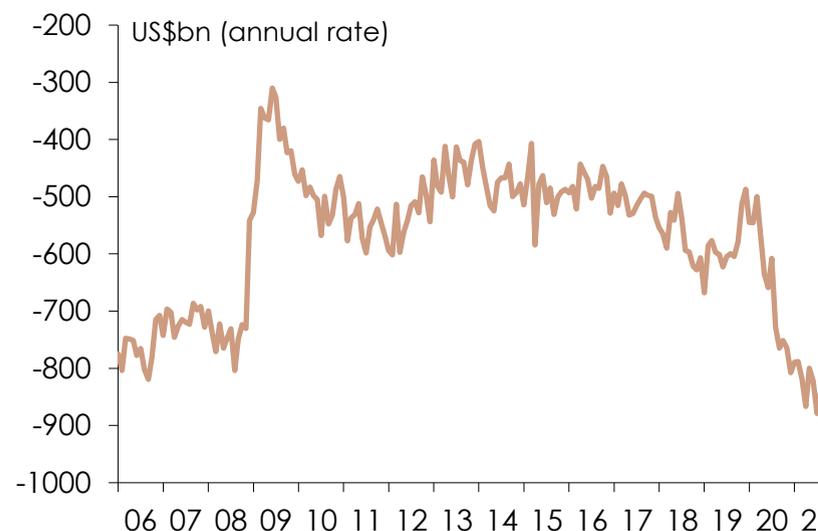
US services trade balance



US bilateral goods trade balances



US goods & services trade balance

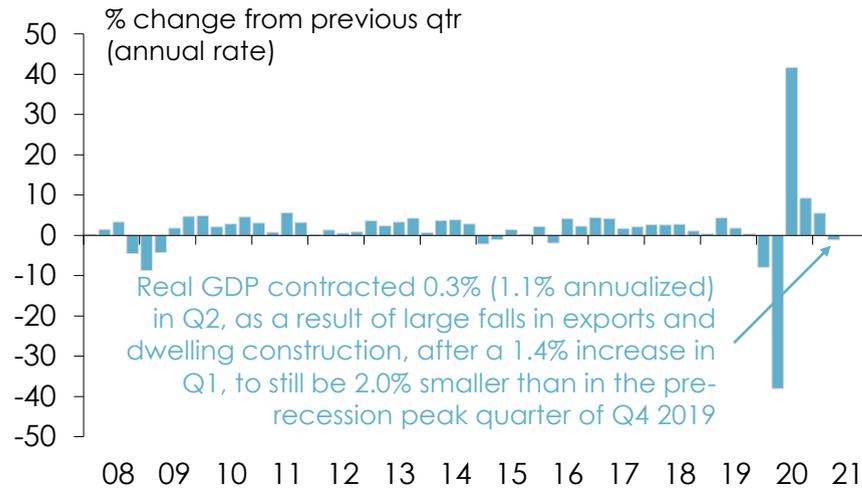


- The US goods trade deficit narrowed by US\$14.1bn to \$82.9bn in October, the smallest since October last year, according to 'advance' estimates
 - exports rebounded by 10.7%, from a 4.7% fall in September, driven largely by a 12% increase in exports of industrial materials and supplies (the largest category of US exports) after a 10% fall in September, a 7.2% increase in capital goods exports and a 14.4% rise in auto exports
 - by contrast imports only rose 0.5%
- The services surplus widened by \$0.8bn to \$17.2bn in September
 - services exports rose 0.9% and imports fell 0.4%
- The combined goods and services deficit in September was a record \$80.9bn, \$7.7bn more than the previous record in June
 - for the first nine months of 2021 the goods and services deficit was \$639bn, compared with \$480bn in the first nine months of 2020
 - the deficit would need to shrink to an average of less than \$39bn a month for the 2021 total not to exceed 2006's record of \$755bn

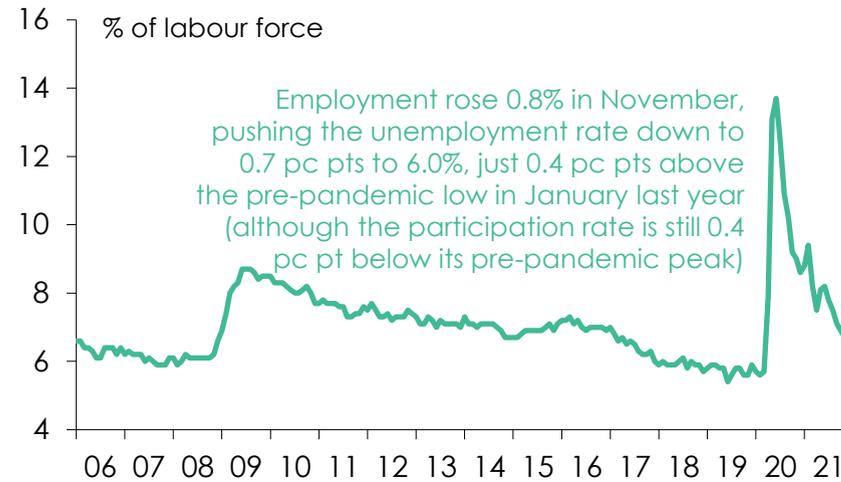
Source: US [Census Bureau](#). [Return to "What's New"](#).

In Canada, employment rose another 0.8% in November, pushing the unemployment rate down to 0.6%, 0.4 pc pt above its pre-pandemic low

Real GDP



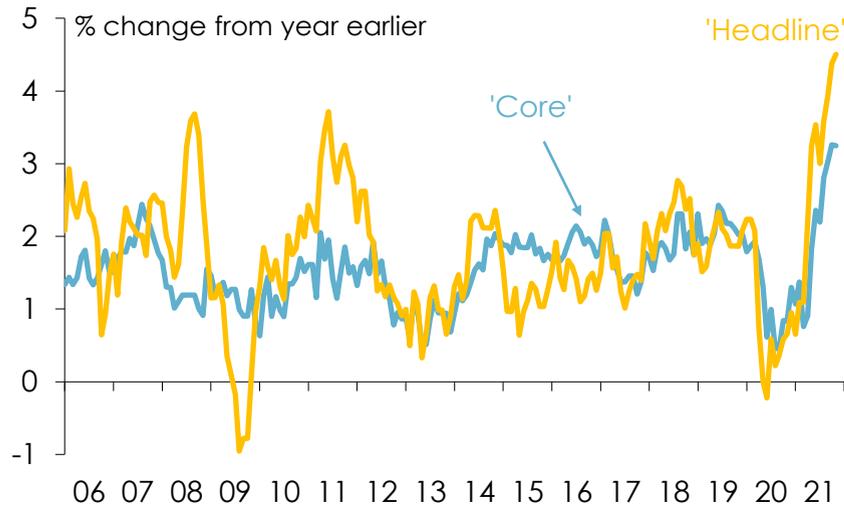
Unemployment rate



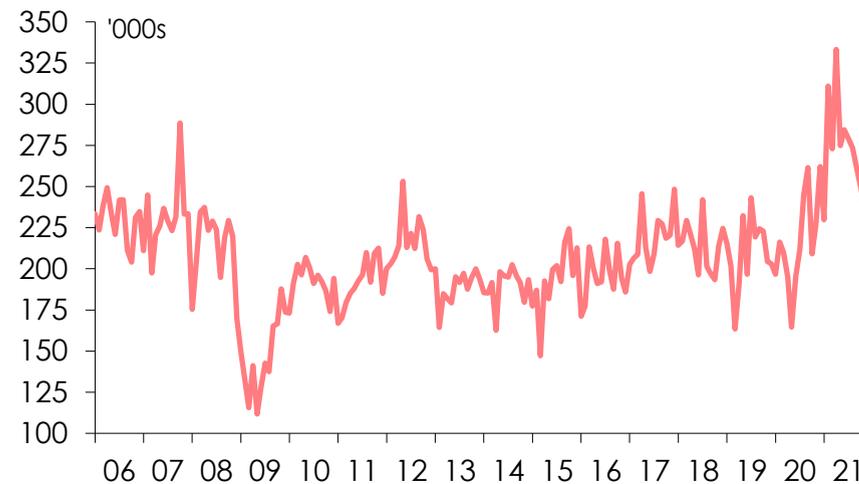
Merchandise trade balance



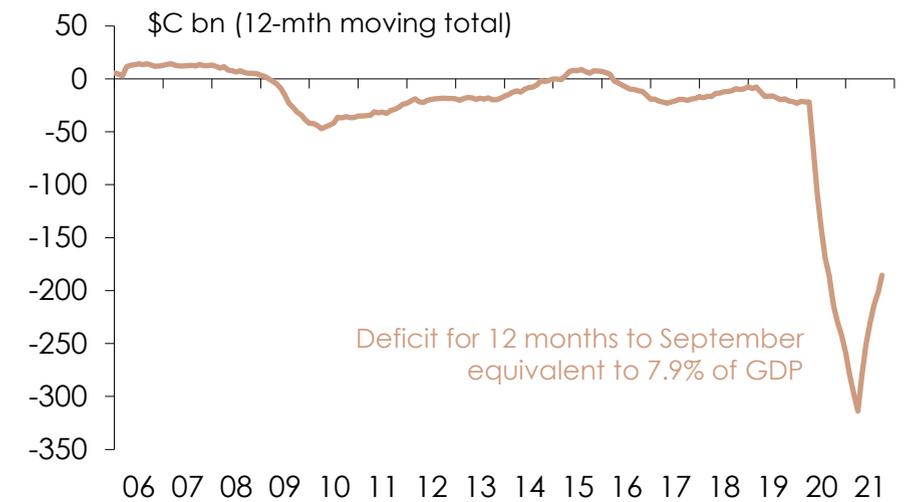
Consumer prices



Housing permits



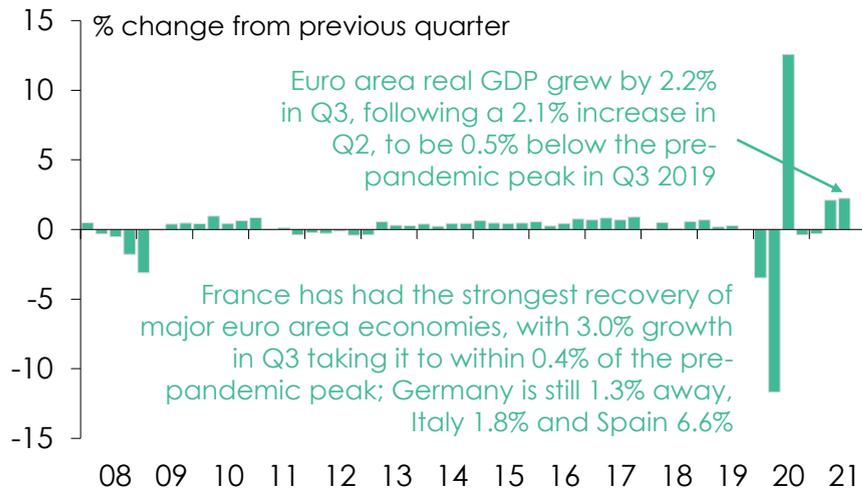
Federal budget balance



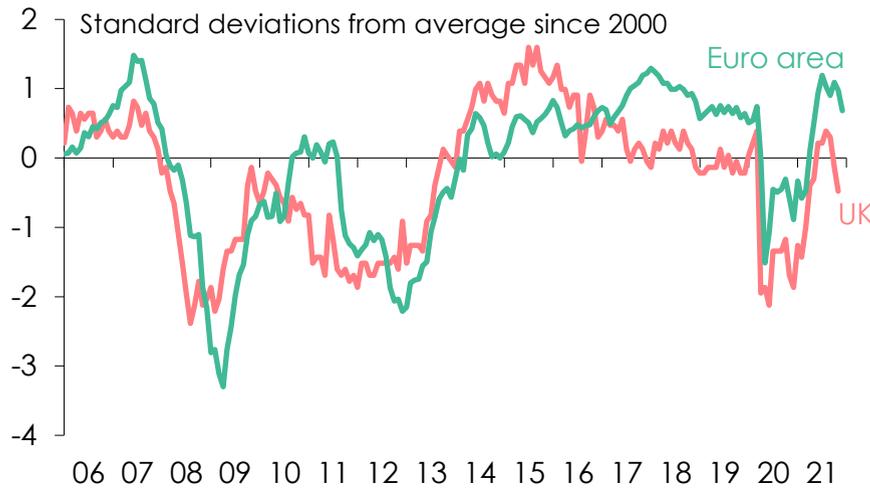
Sources: [Statistics Canada](#); [Department of Finance Canada](#). [Return to "What's New"](#).

Euro area unemployment fell 0.1 pc pt to 7.3% in October, just 0.2 pc pt above its pre-pandemic low

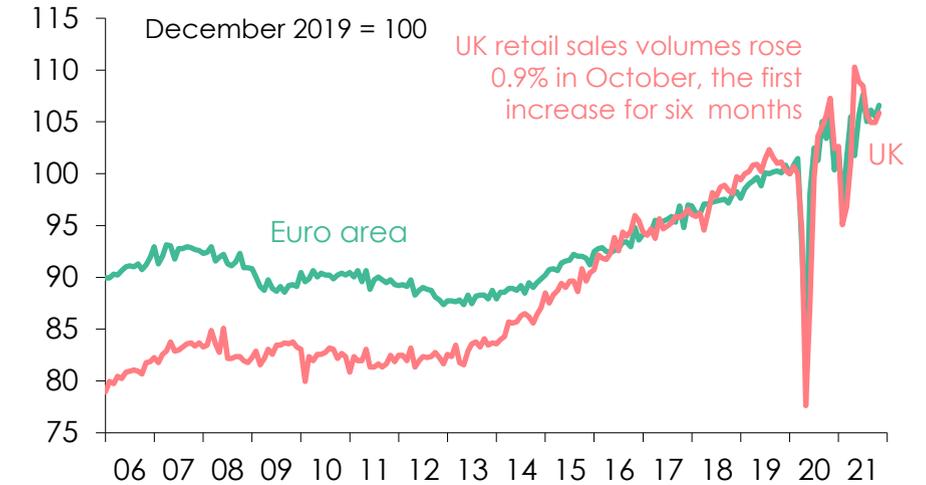
Euro area real GDP



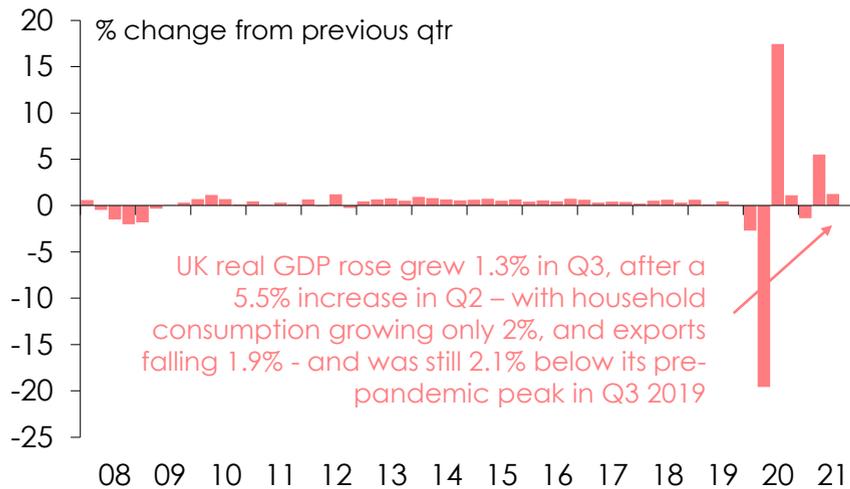
Consumer confidence



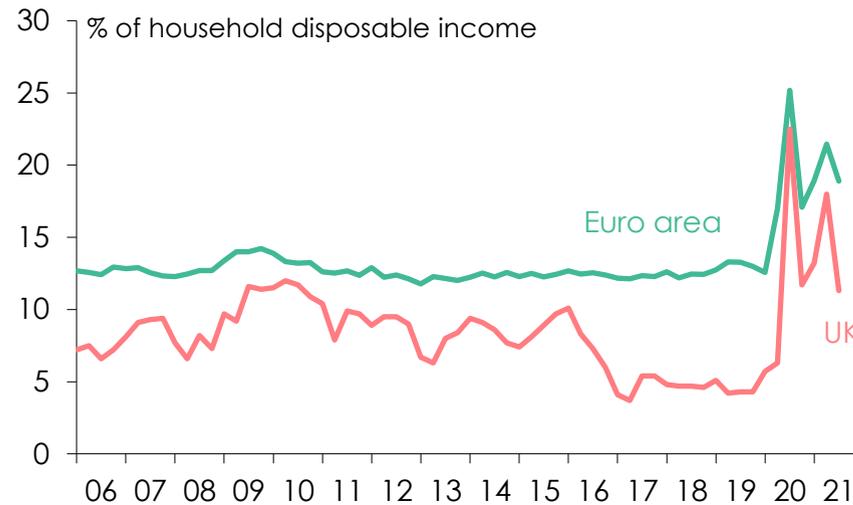
Retail sales volume



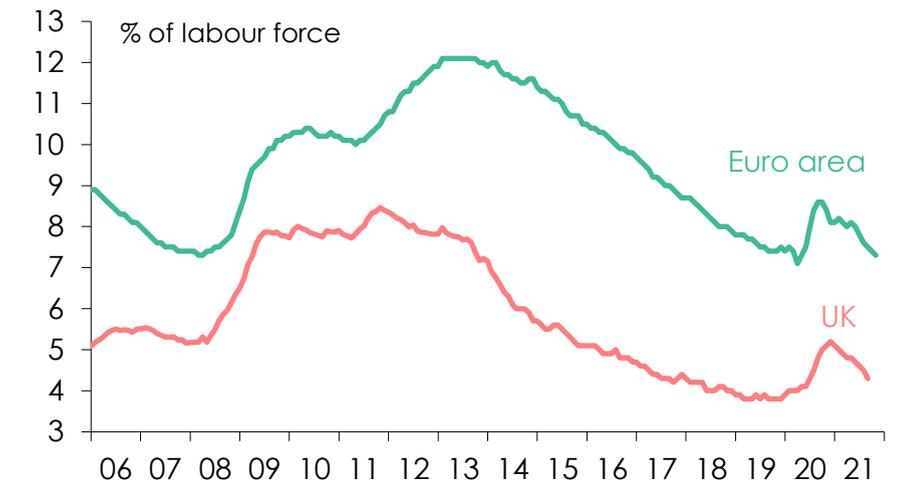
UK real GDP



Household saving ratio



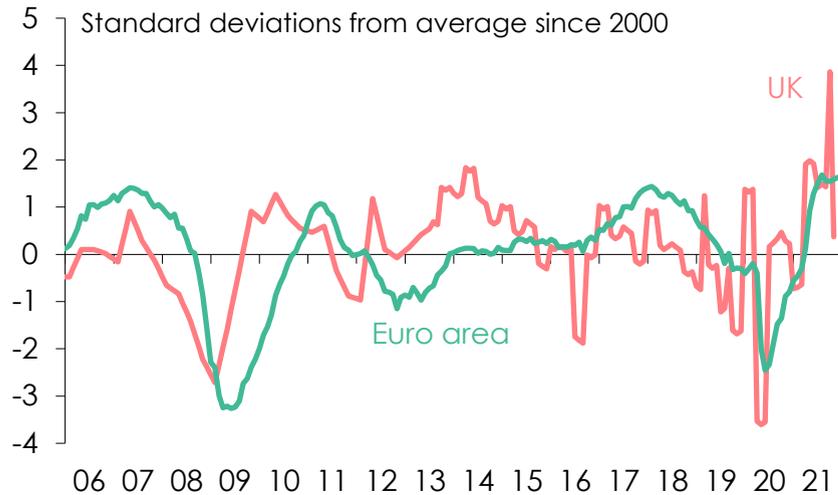
Unemployment



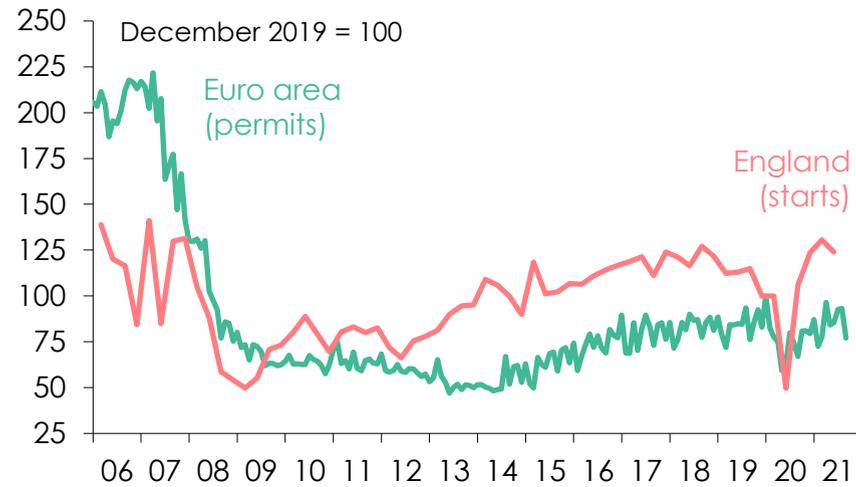
Sources: Eurostat; UK Office for National Statistics; GfK. The UK unemployment rate is published as a 3-month moving average.
[Return to "What's New"](#).

UK business confidence has also fallen sharply as energy prices have spiked, while UK exports have stagnated since 'Brexit'

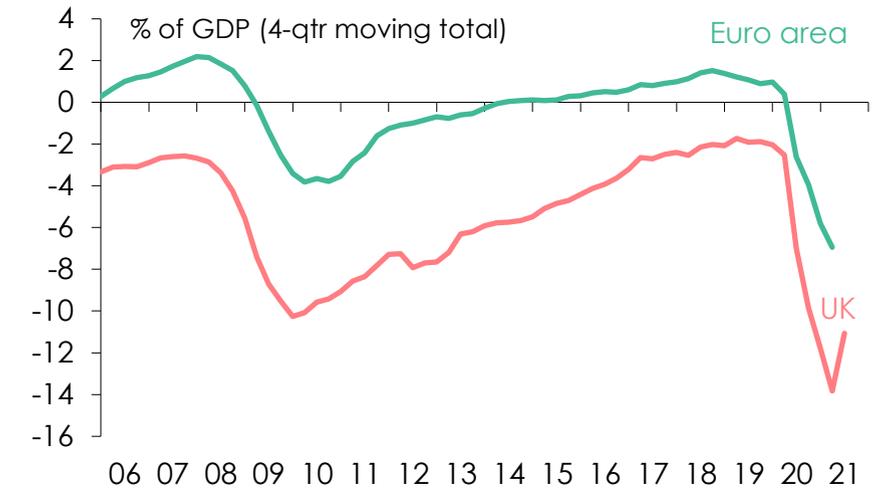
Business confidence



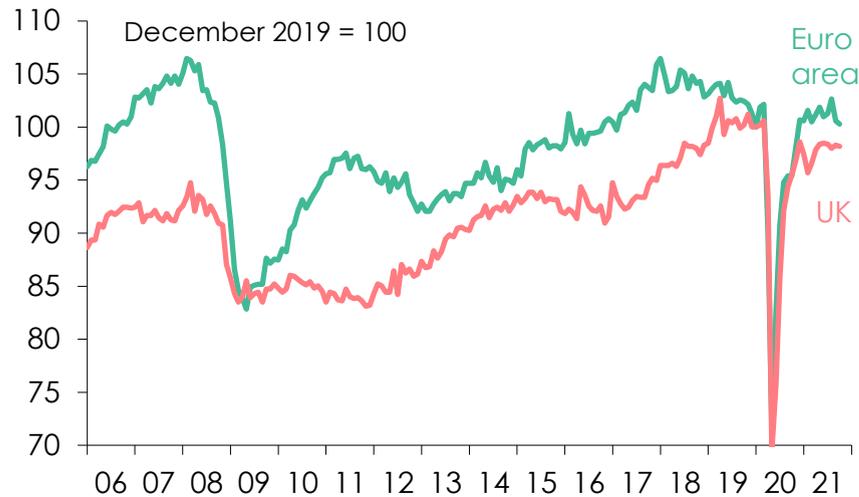
Housing activity



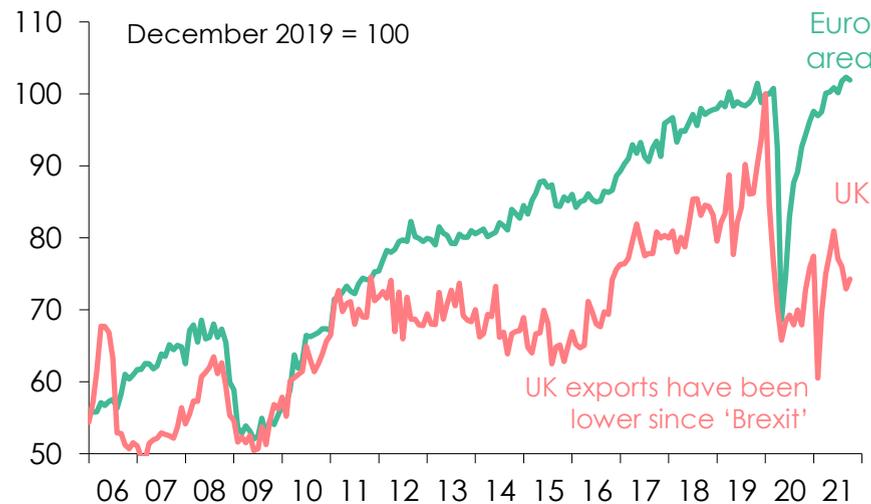
Government fiscal balance



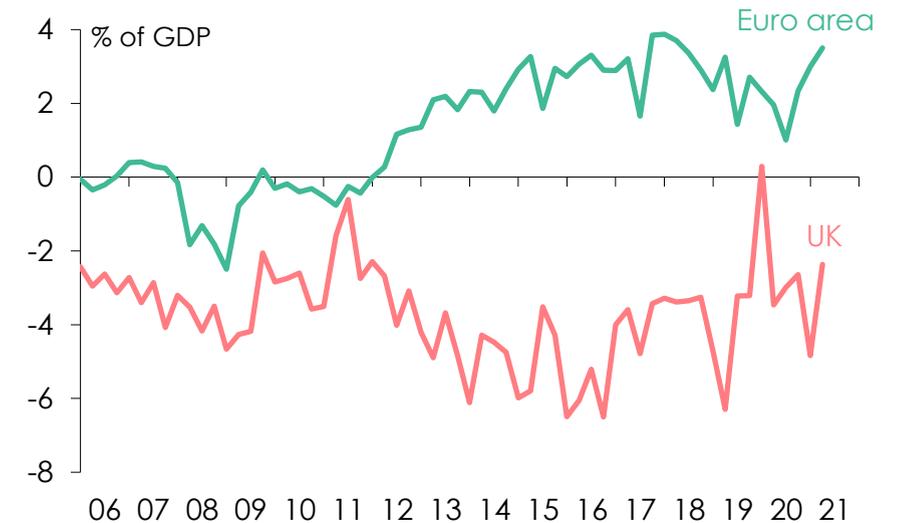
Manufacturing production



Merchandise exports



Current account balance

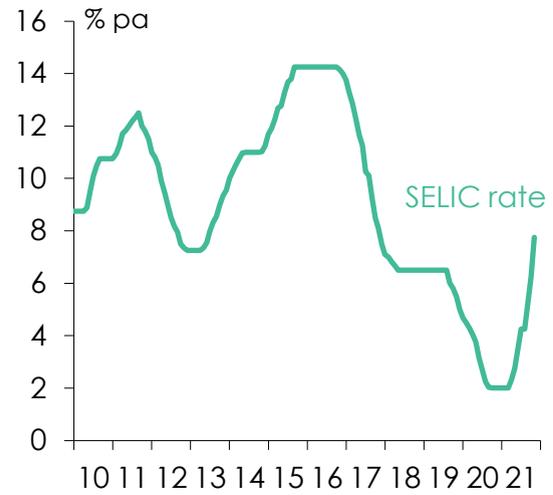


Central banks in Latin America, and in Central and Eastern Europe, are continuing to raise rates – with Turkey the ‘odd man out’

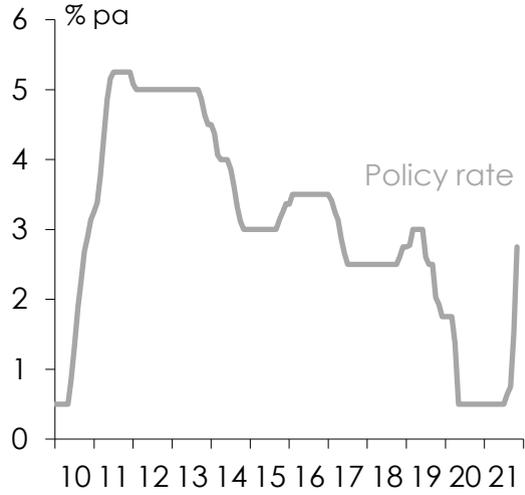
- ❑ The only central bank to increase interest rates this week was the [National Bank of Moldova](#), which raised its base rate by 100bp to 6.50% on Friday, the fourth tightening of monetary policy this year, responding to inflation of 8.8% over the year to October, well above its target of 5% ± 1.5 pc points
- ❑ [Magyar Nemzeti Bank](#) (Hungary’s central bank) followed up the tightening of monetary policy at its previous Monetary Council meeting by raising its overnight deposit rate by 45 bp to 1.60%, and its overnight and one-week collateralized loan rates by 105 bp to 4.10%, thereby widening the range of these rates around the base rate which was raised to 2.10% at the meeting on 16th November, in order to ensure it has “the appropriate monetary policy room to manoeuvre ... in a rapidly changing environment”
- ❑ This follows rate increases earlier last month by central banks in the [Czech Republic](#), [Poland](#) and [Romania](#) (see [slide 80](#))
- ❑ In Latin America, central banks in [Mexico](#), [Peru](#) and [Uruguay](#) and [Paraguay](#) their policy interest rates in November, in each case for the third time this year (see [slide 80](#))
- ❑ South Africa’s Reserve Bank raised its policy rate for the first time last month – even though inflation is, and is expected to remain, within its target range
- ❑ The [State Bank of Pakistan](#) raised its policy rate by 150bp last month, to 8.75%, following an initial 25bp rise in September, citing “unforeseen developments that have affected the outlook for inflation and the balance of payments”
- ❑ [Turkey's central bank](#) has been the ‘odd man out’ in emerging markets this year, cutting its policy rates three times, by a total of 300bp since September, under pressure from President Erdoğan, and despite inflation reaching 21.7% over the year to November – prompting a 33% decline in the lira vs the US\$ since the first rate cut ([slide 81](#))

A growing number of 'emerging' market central banks have begun tightening monetary policy

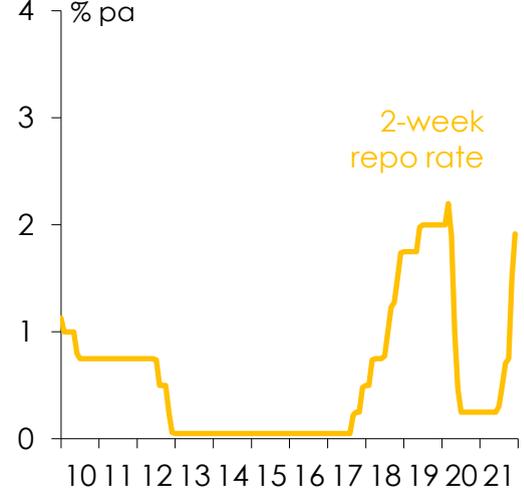
Brazil



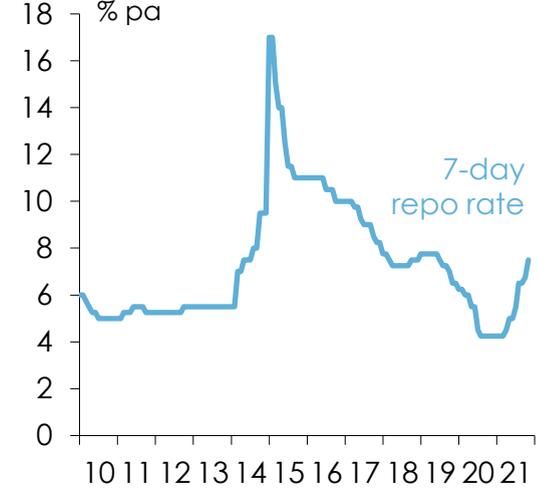
Chile



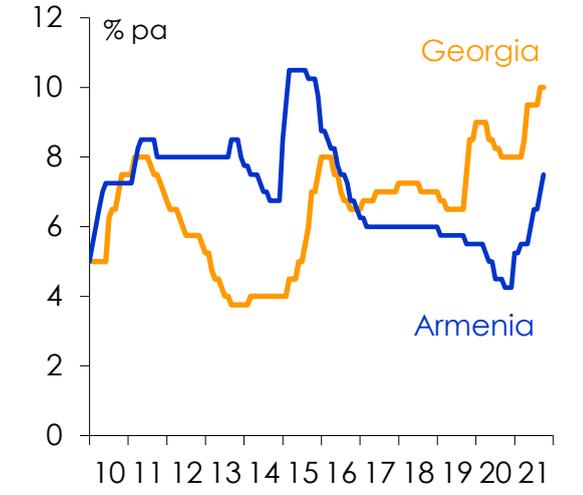
Czech Republic



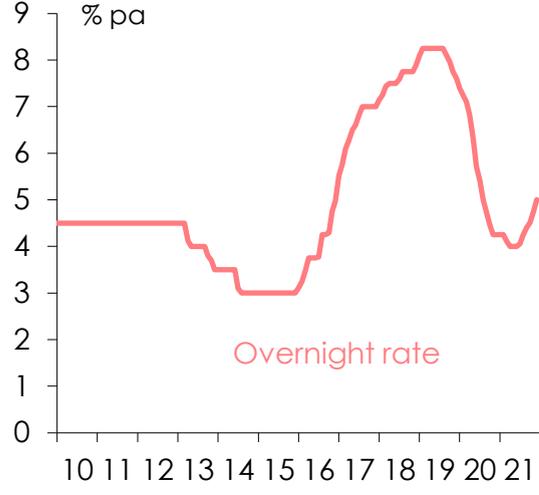
Russia



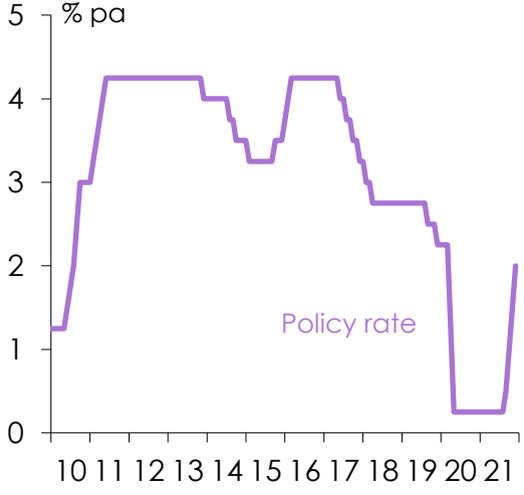
Georgia & Armenia



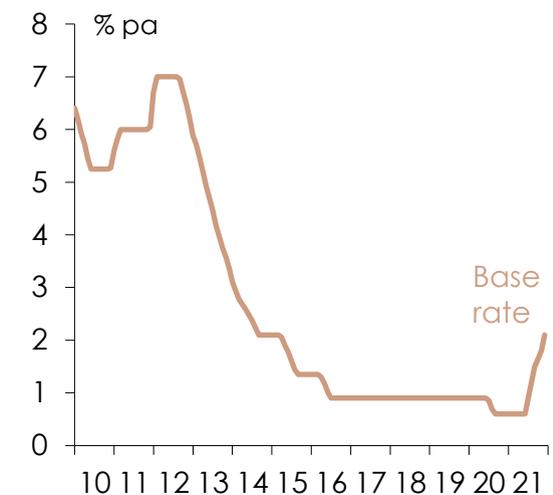
Mexico



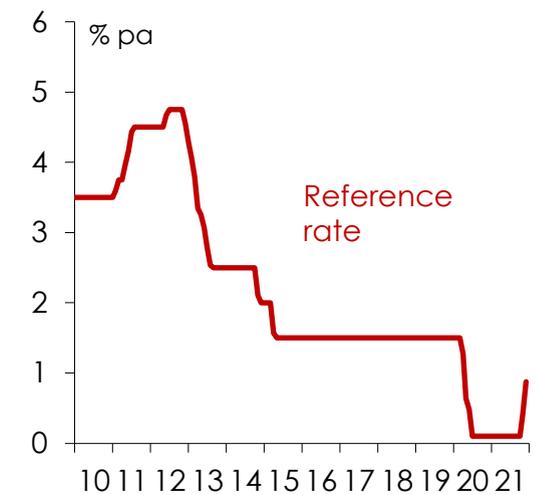
Peru



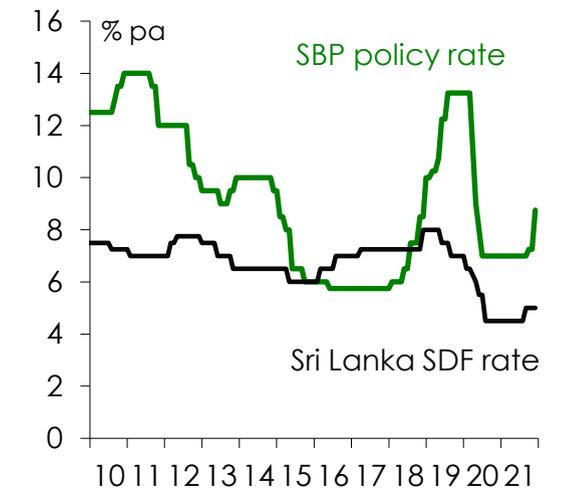
Hungary



Poland



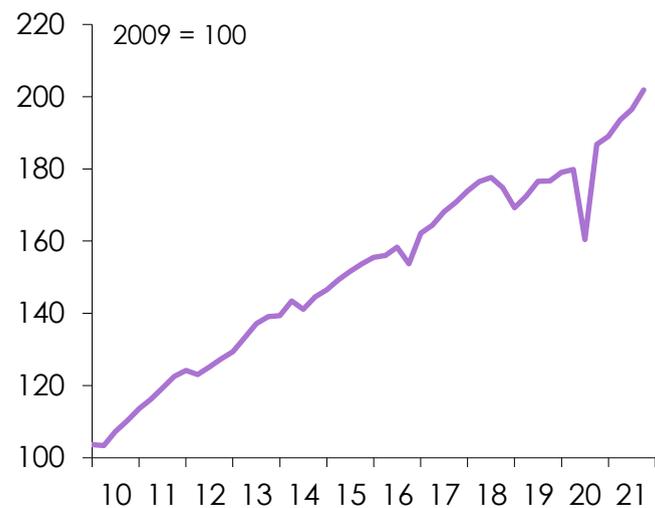
Pakistan & Sri Lanka



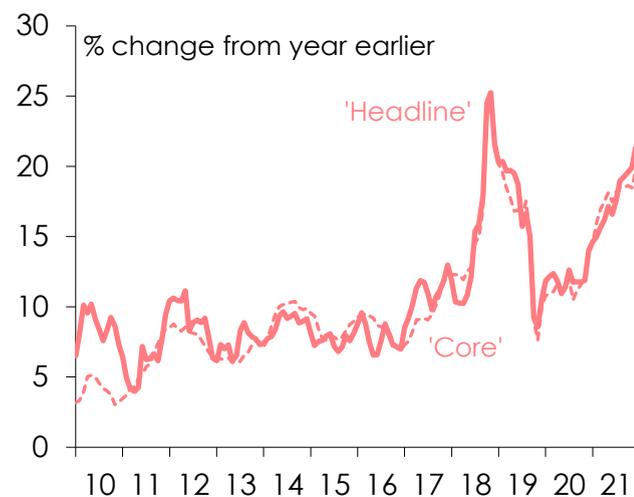
Sources: [Banco Central do Brasil](#); [Banco de México](#); [Banco Central de Chile](#); [Banco Central de Reserva del Perú](#); [Česká národní banka](#); [Magyar Nemzeti Bank](#); [Bank Rossii](#); [Narodowy Bank Polski](#); [Sakartvelos Erovnuli Bank'i](#); [Hayastani Kentronakan Bank](#); [State Bank of Pakistan](#); [Central Bank of Sri Lanka](#).

Turkey's central bank has cut interest rates three times since September, despite inflation of almost 20% - and the lira has continued to slide

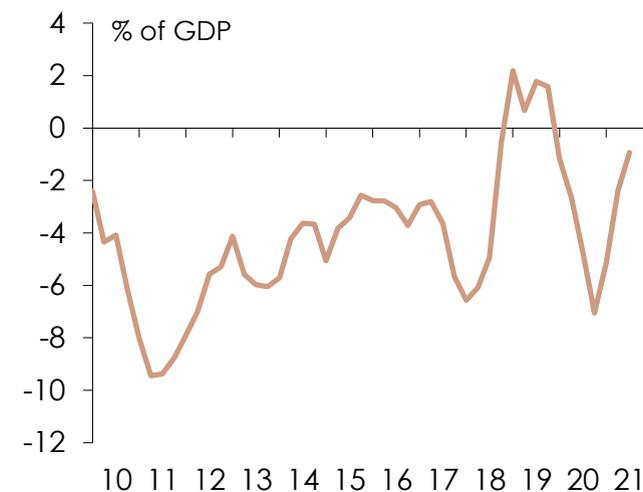
Real GDP



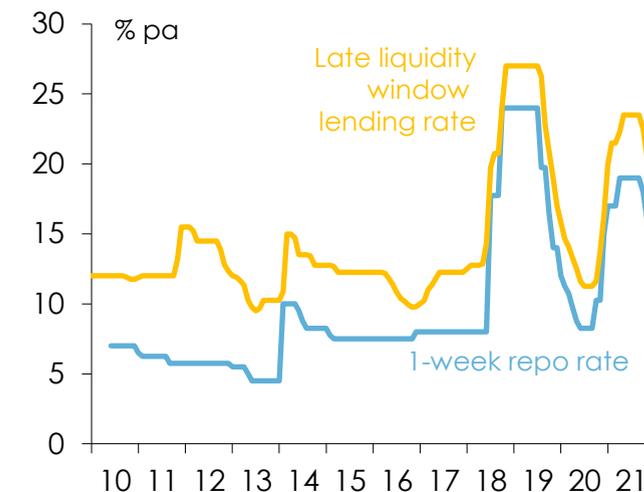
Inflation



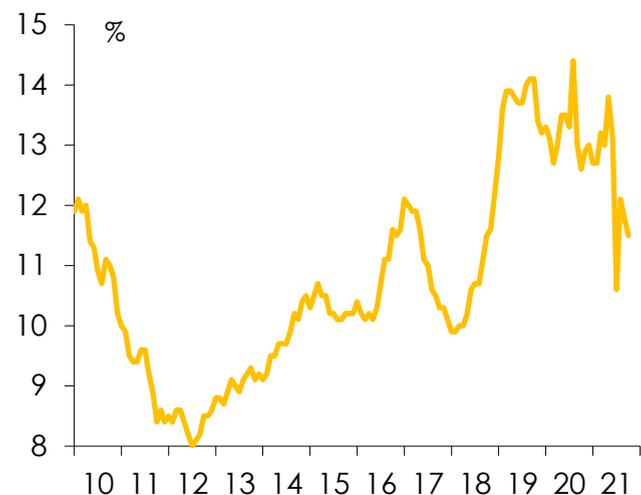
Current account balance



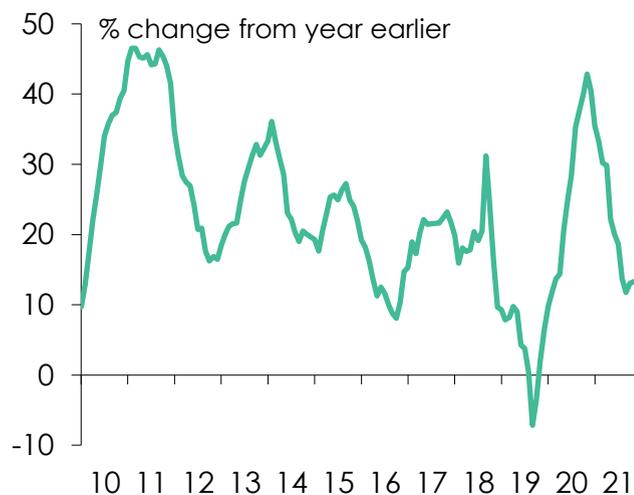
Interest rates



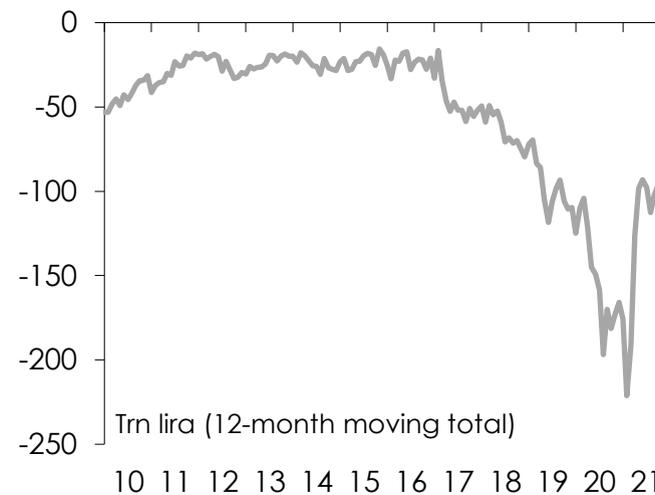
Unemployment rate



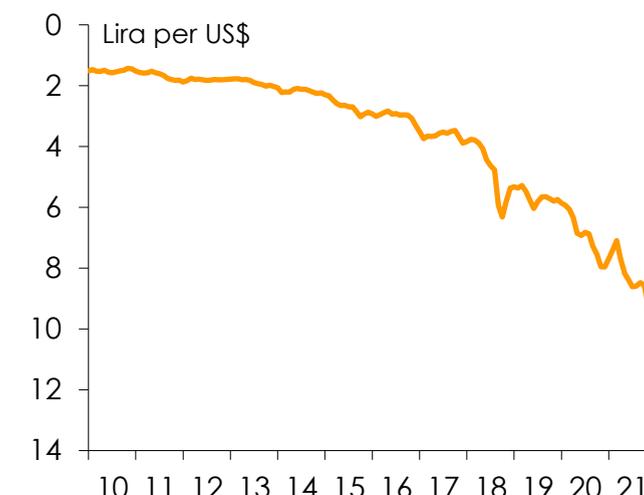
Bank lending



Budget balance



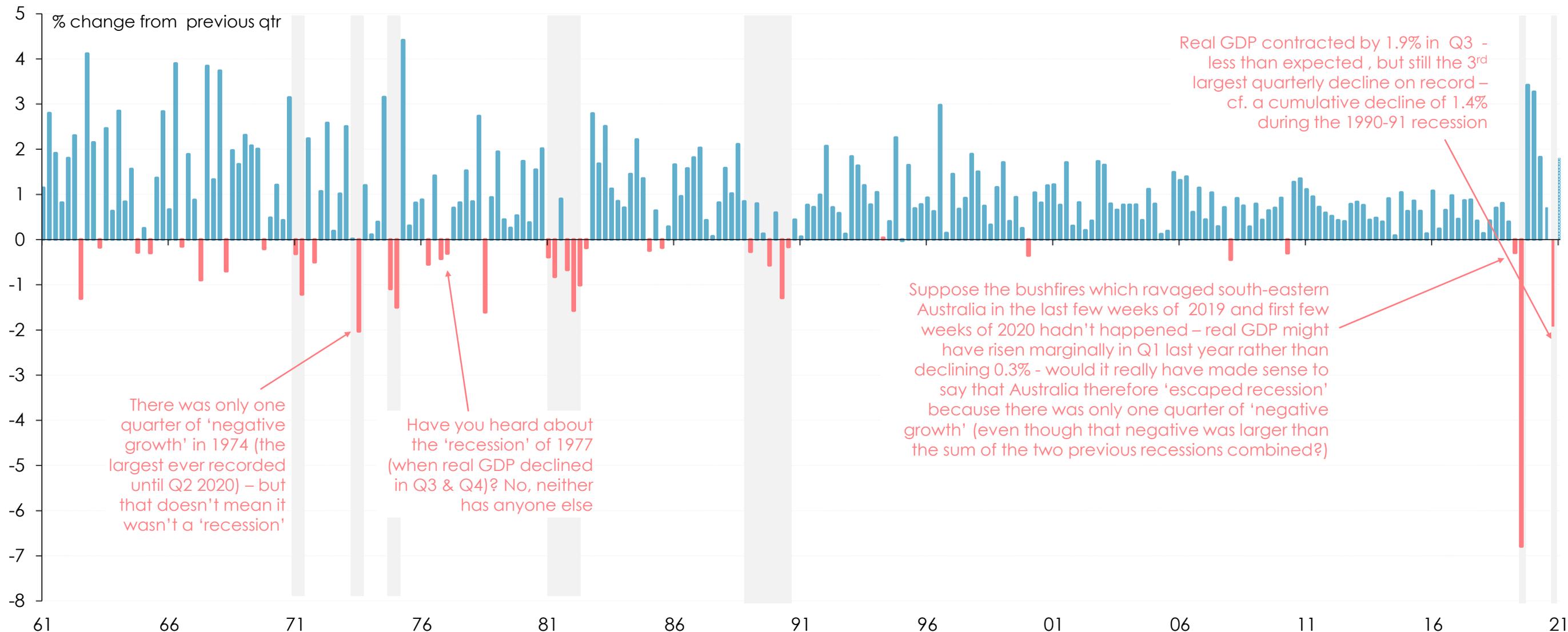
Turkish lira vs US\$



Australia

Australia's real GDP contracted by 1.9% in Q3 – less than expected, but still more than it did in the 1990-91 recession – but should rebound in Q4

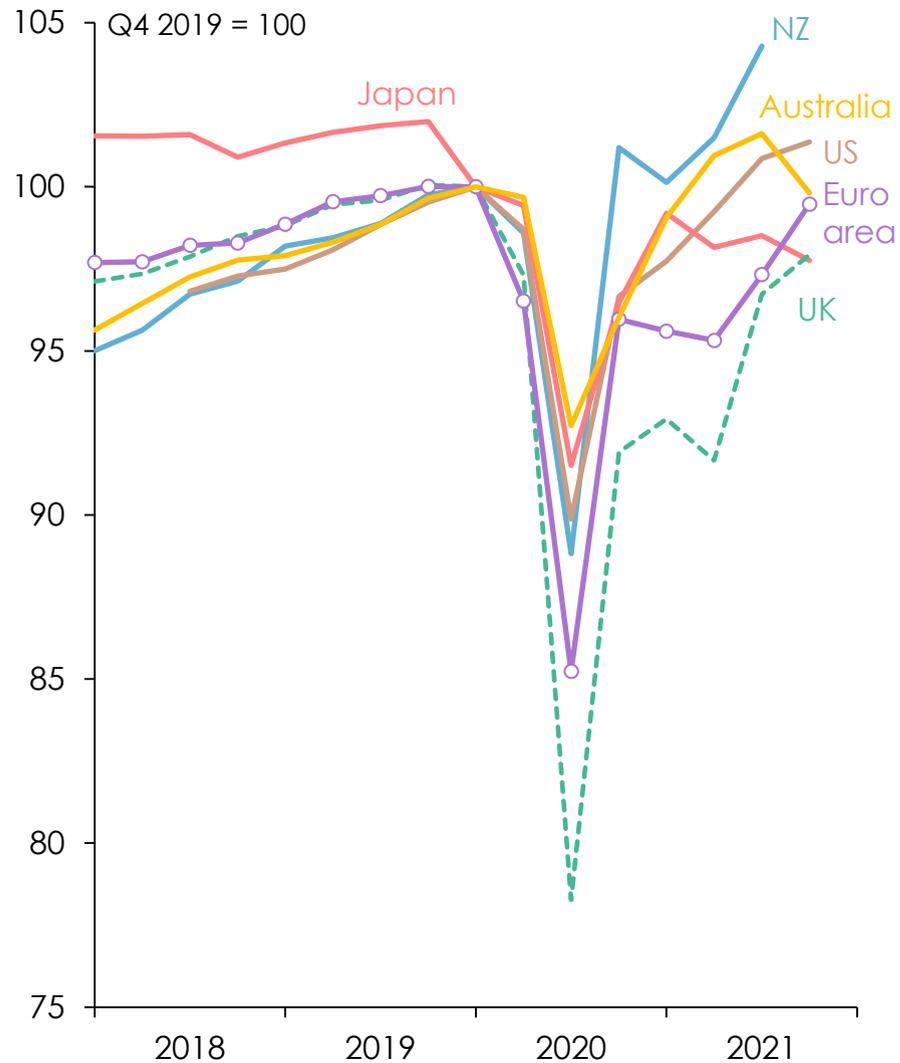
Quarterly growth in Australian real GDP, 1961-2021



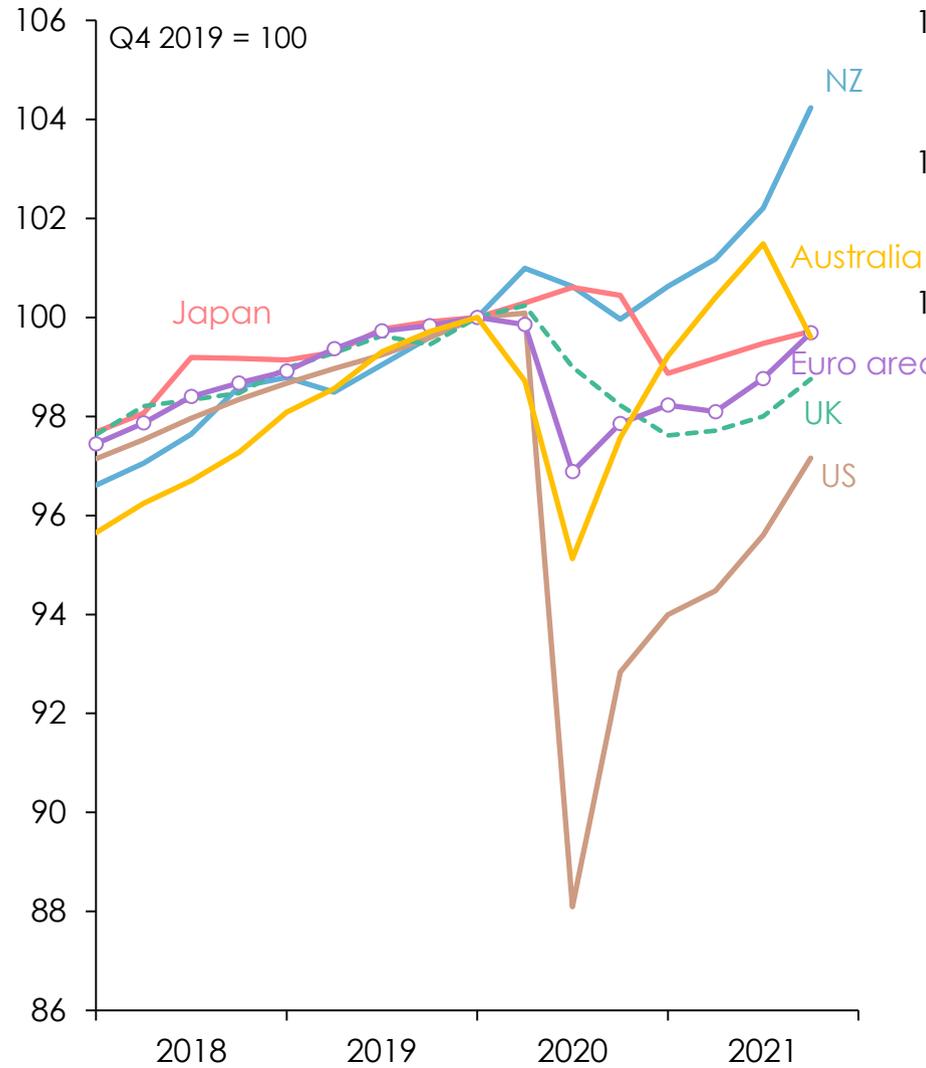
Note: Shaded areas denote recessions. Source: ABS, [Australian National Accounts: National Income, Expenditure and Product](#), September quarter 2021. December quarter GDP will be released on 2nd March 2022. [Return to "What's New"](#).

Australia's 'Covid' recession wasn't as severe as, and its recovery has been stronger than, most other 'advanced' economies – but will that continue?

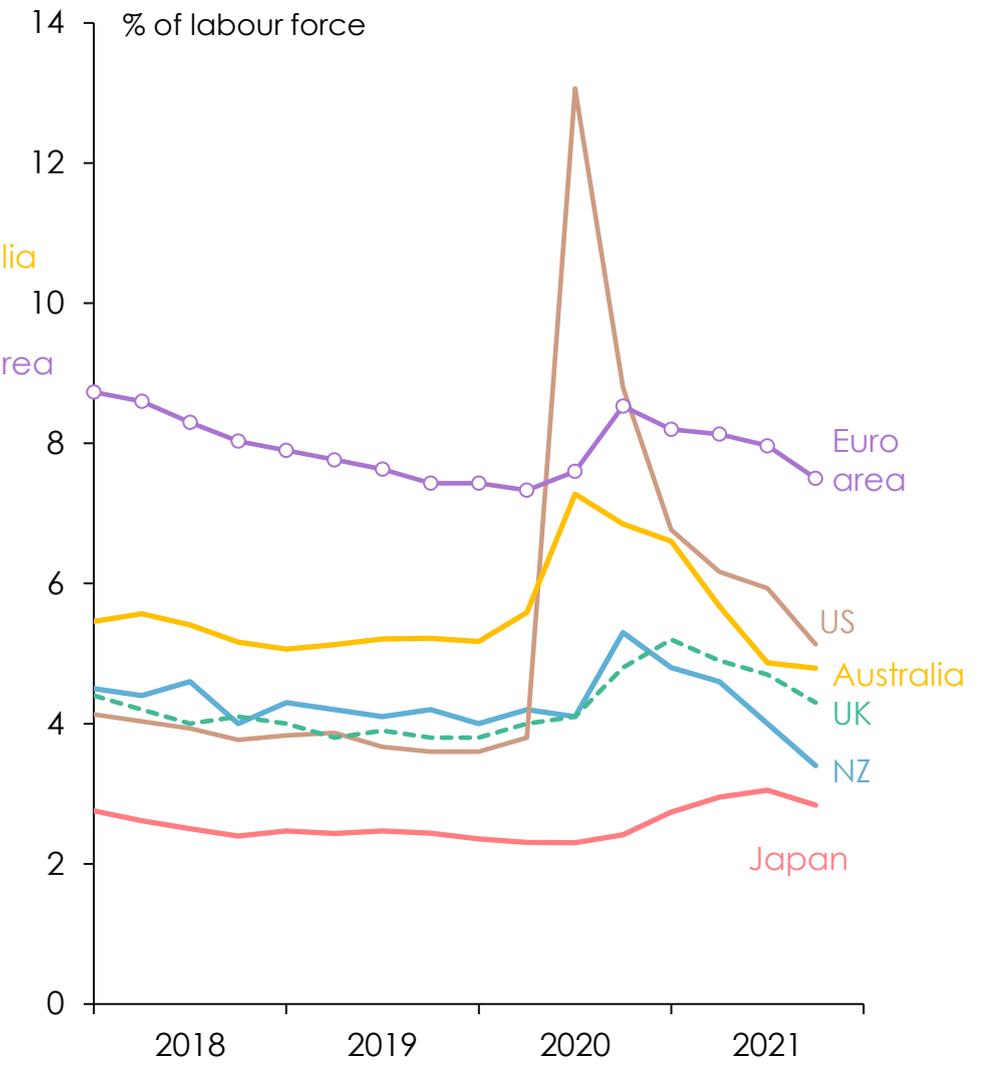
Level of real GDP



Employment



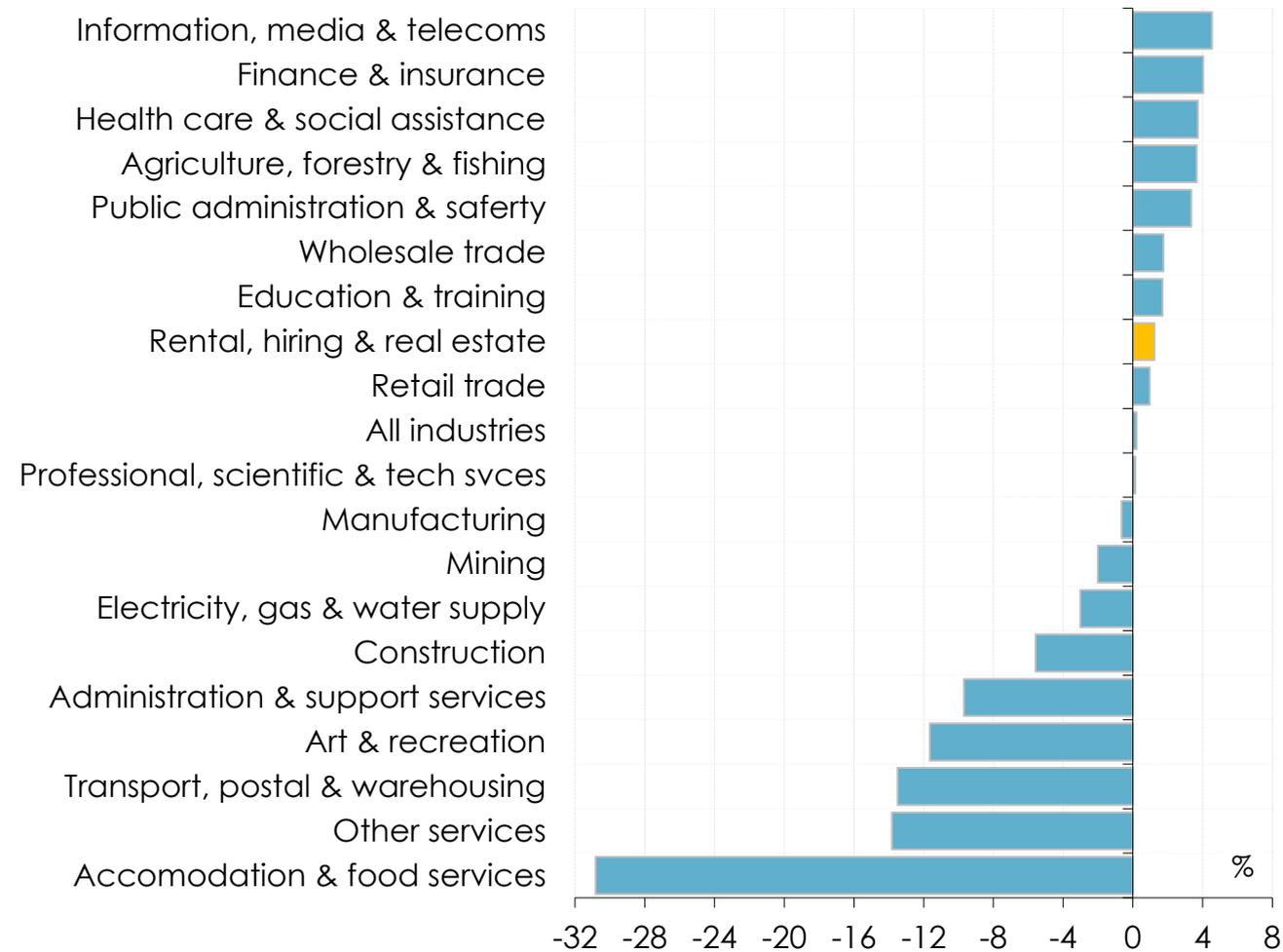
Unemployment



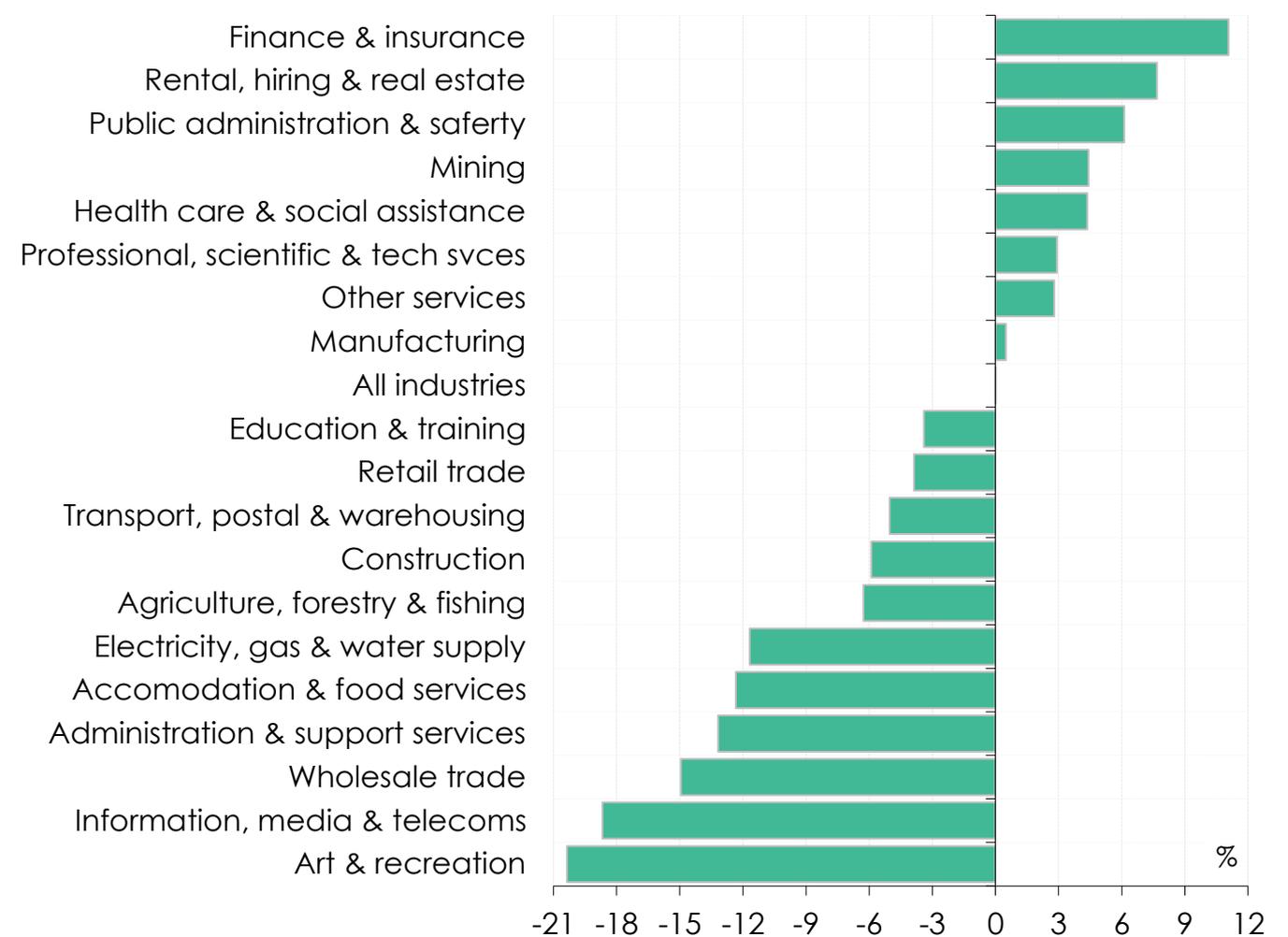
Sources: [ABS](#) ; [Statistics NZ](#) ; [US Bureau of Economic Analysis](#) and [Bureau of Labor Statistics](#); [Japan Cabinet Office](#) and [Statistics Bureau of Japan](#); [Eurostat](#); and [UK Office for National Statistics](#); Corinna.

Some sectors of the economy have been much more severely affected by public health restrictions and border closures than others

Q3 2021 real gross value added by industry – change from pre-pandemic peak



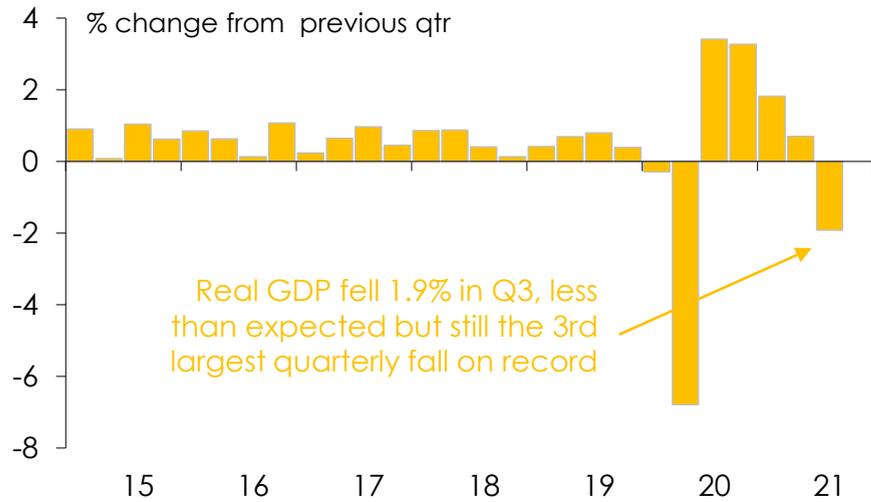
Q3 2021 employment by industry – change from pre-pandemic peak



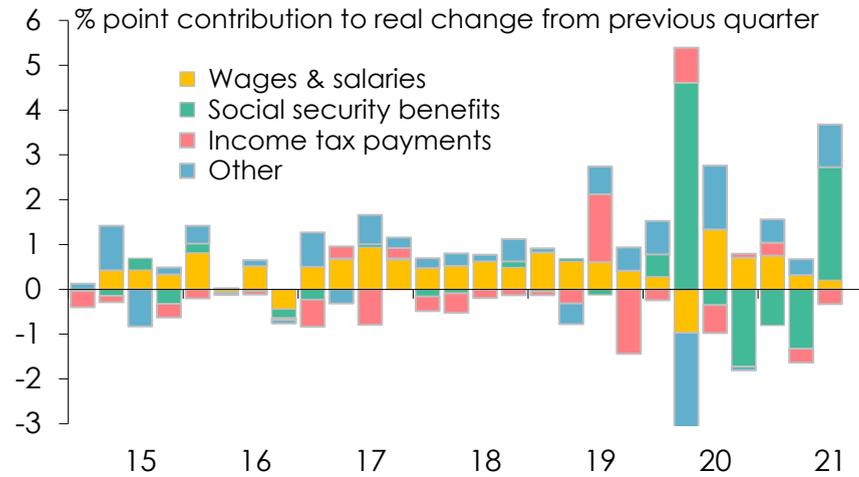
Sources: ABS, [Australian National Accounts: National Income, Expenditure and Product](#), September quarter 2021; and [Labour Force, Australia, Detailed](#), August 2021.

Household spending fell 4.8% in Q3 due to lockdowns, but a 3.3% rise in public spending limited the fall in real GDP to 1.9%

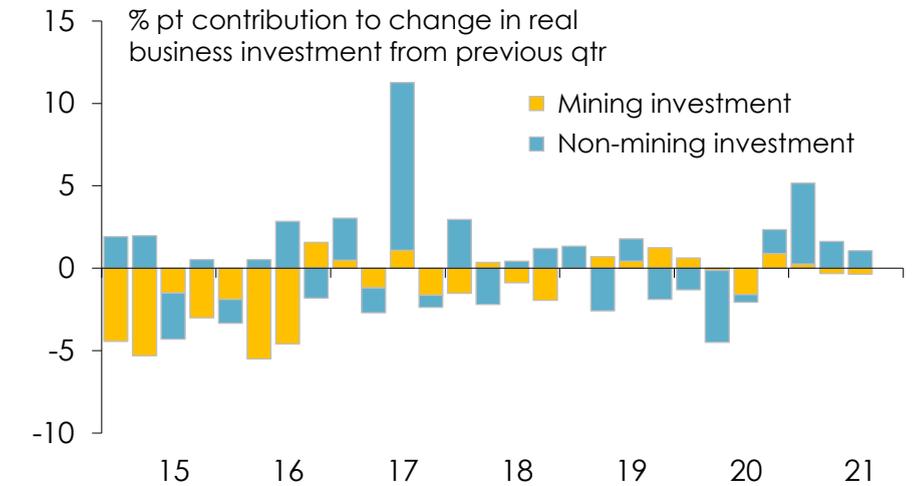
Quarterly change in real GDP



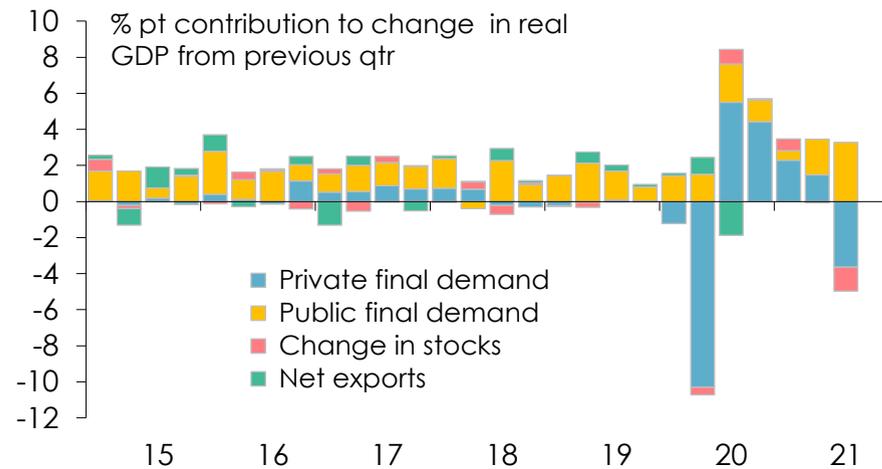
Household disposable income



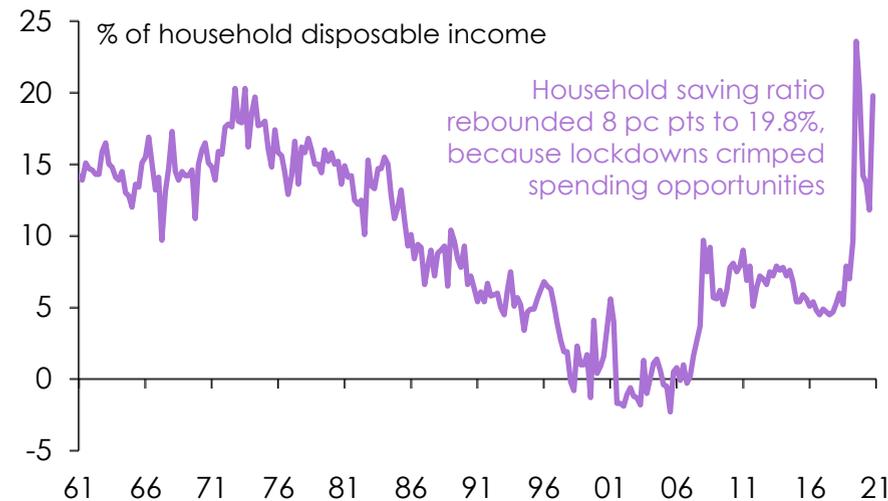
Business investment expenditure



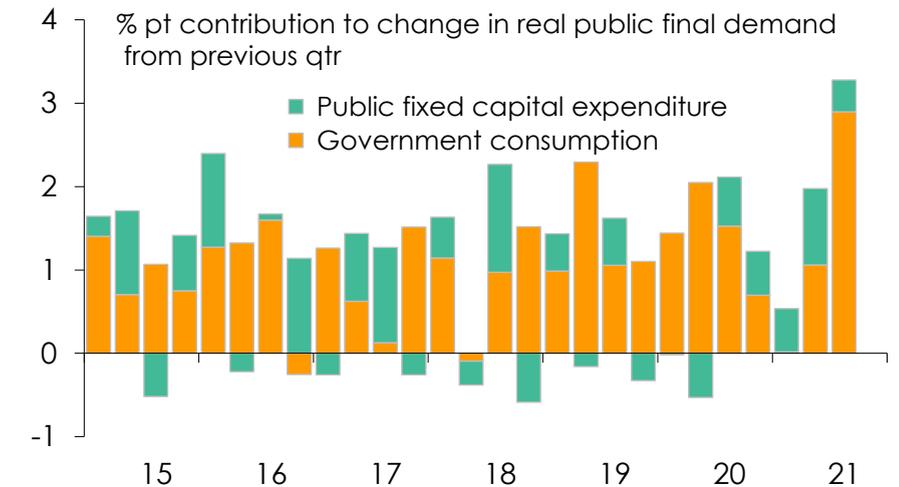
Contributions to quarterly GDP growth



Household saving rate



Public expenditure

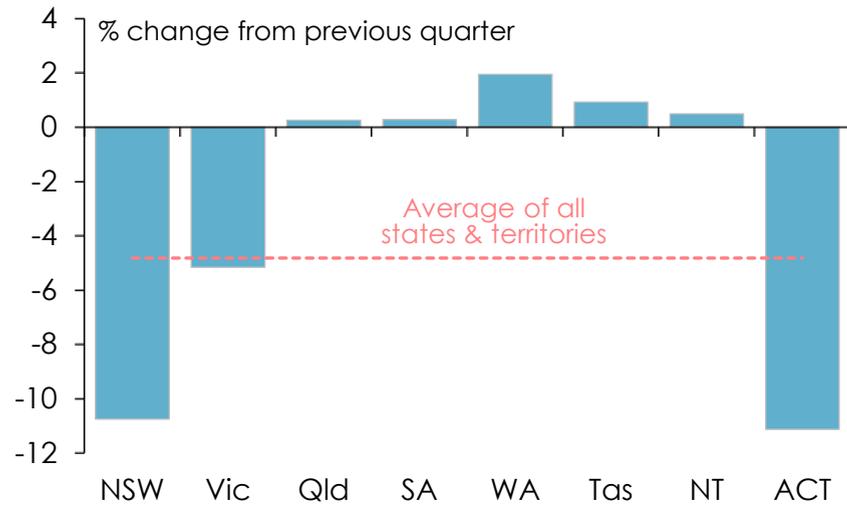


Note: Components of household disposable income are deflated by the implicit price deflator of household final consumption expenditure.

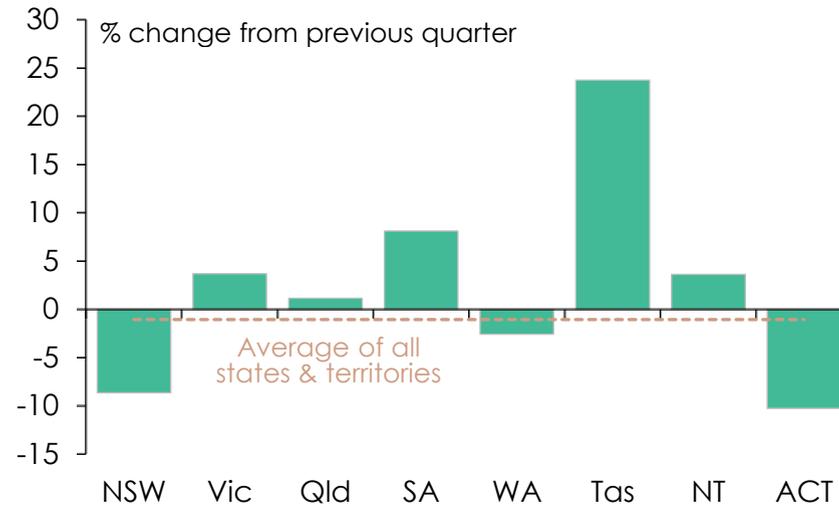
Source: ABS, [Australian National Accounts: National Income, Expenditure and Product](#), September quarter 2021. December quarter national accounts will be released on 2nd March 2022. [Return to "What's New"](#).

The contraction in Q3 was due to sharp downturns in private sector spending in NSW, the ACT and Victoria during their lockdowns

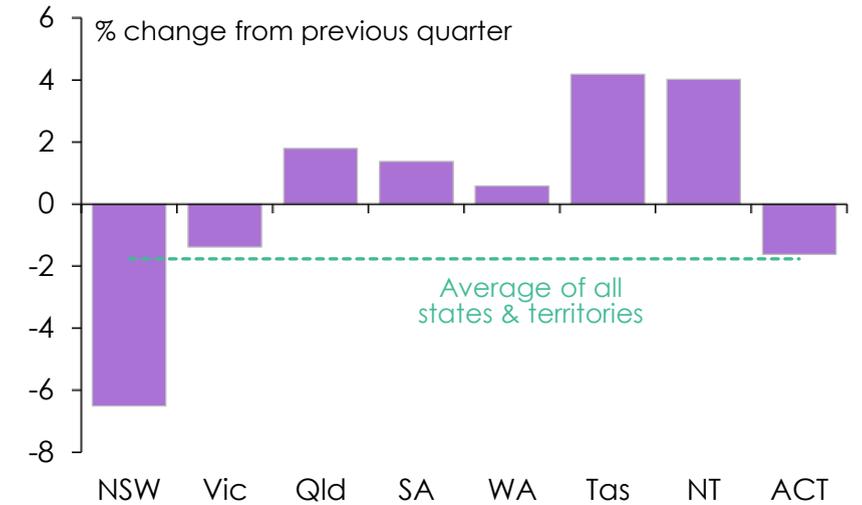
Household consumption



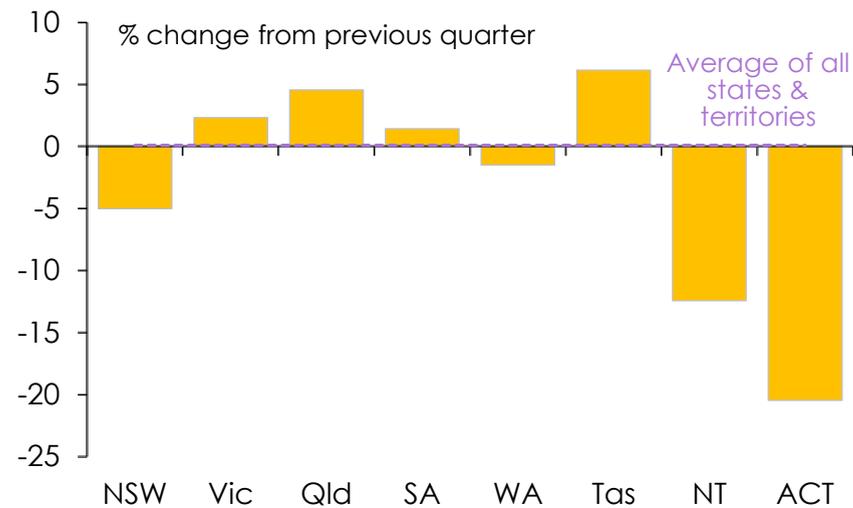
Business investment



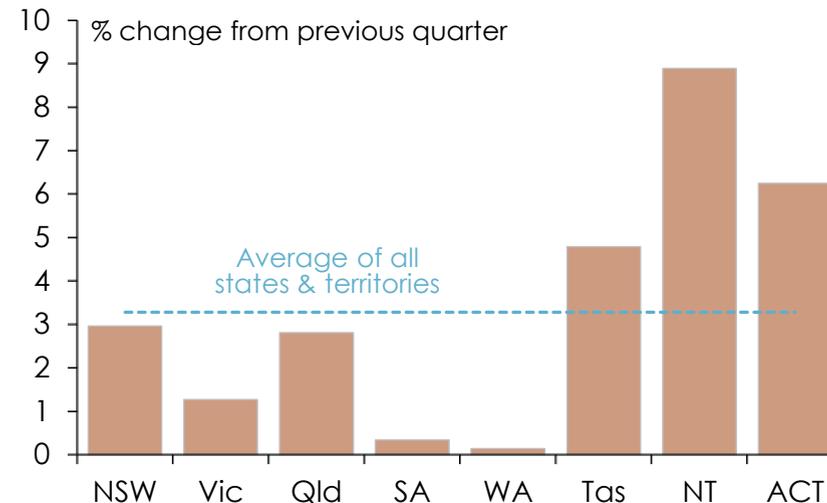
State final demand



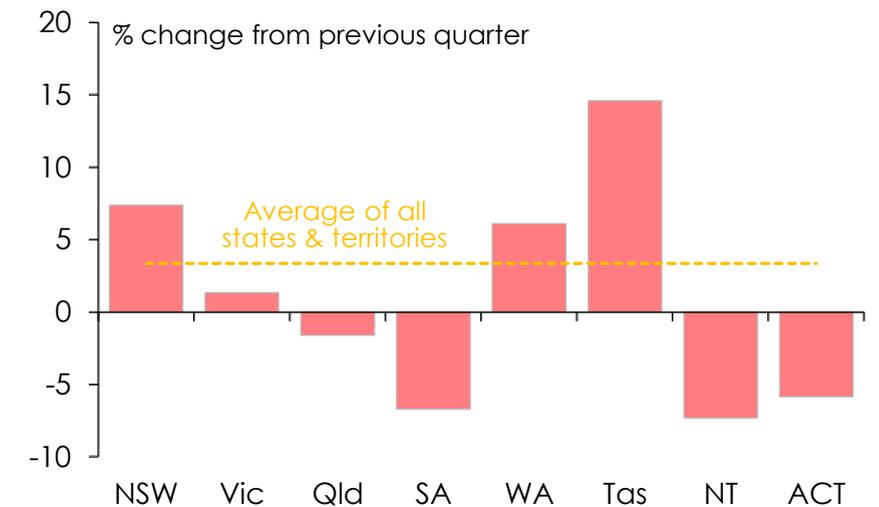
Dwelling investment



Public spending



International exports

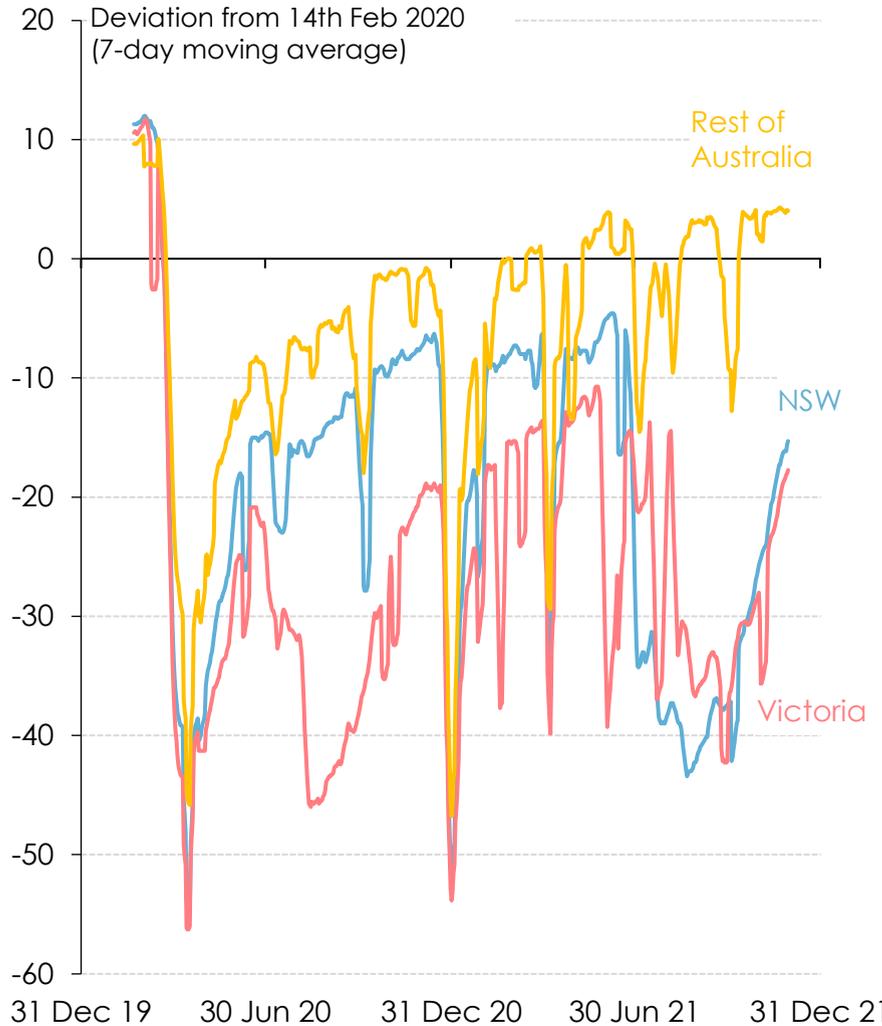


Note: all data in chain-volume terms. Business investment and public spending exclude transactions in second-hand public sector assets. Sources: ABS, [Australian National Accounts: National Income, Expenditure and Product](#), September quarter 2021; [Balance of Payments and International Investment Position, Australia](#), September quarter 2021.

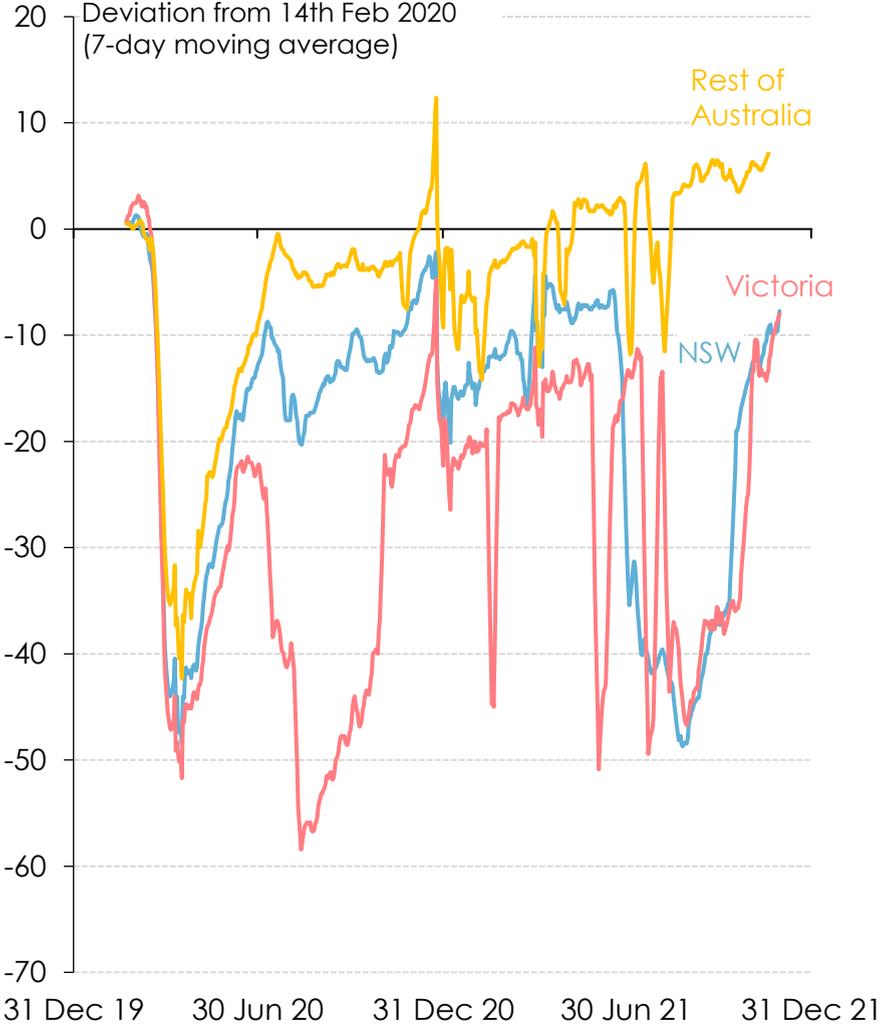
'Mobility indicators' illustrate how NSW and Victoria have begun returning to 'normal' as restrictions have been eased

Google mobility indicators

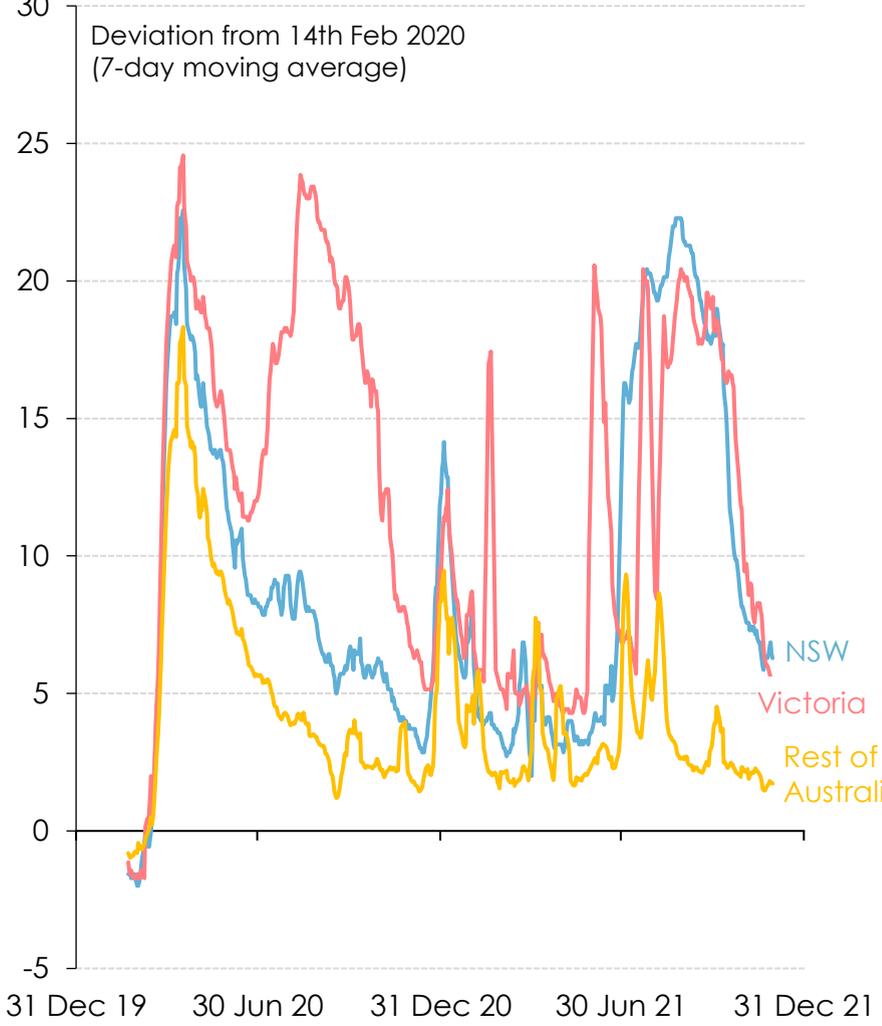
Workplaces



Retail and recreation



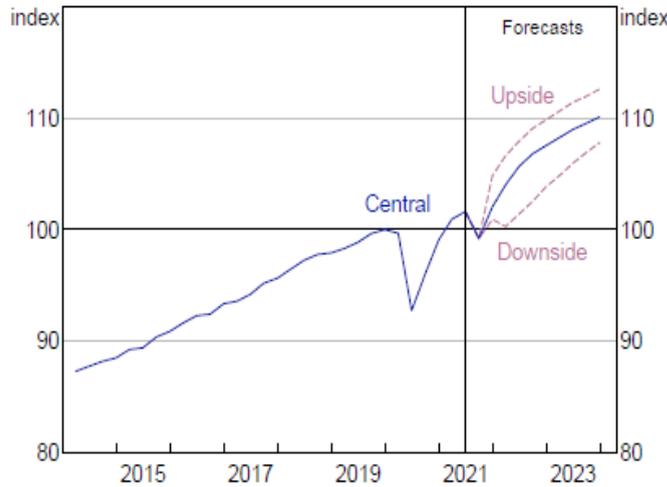
Residences



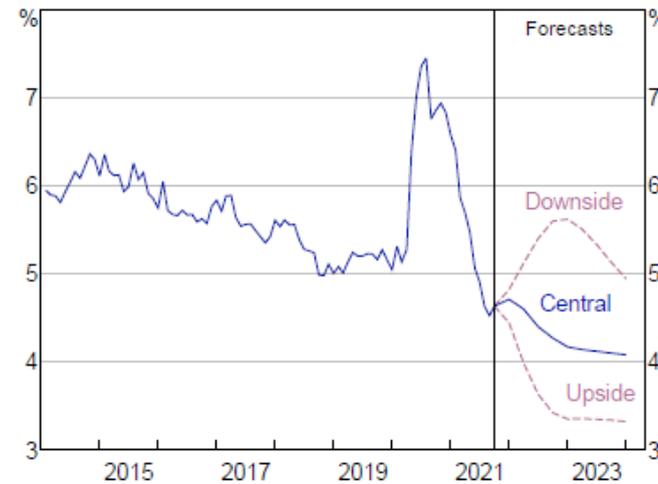
Note: data up to 29th November. Sources: [Google Community Mobility Reports](#); Corinna. [Return to "What's New"](#).

After revising up its inflation forecasts the RBA concedes an increase in the cash rate “could be warranted” in 2023, but emphatically not in 2022

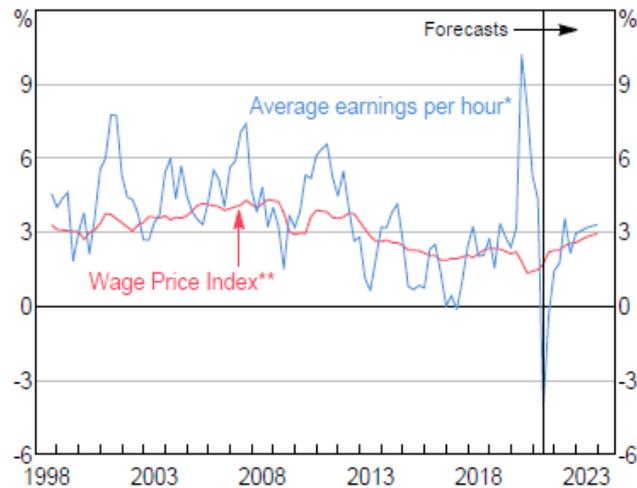
GDP



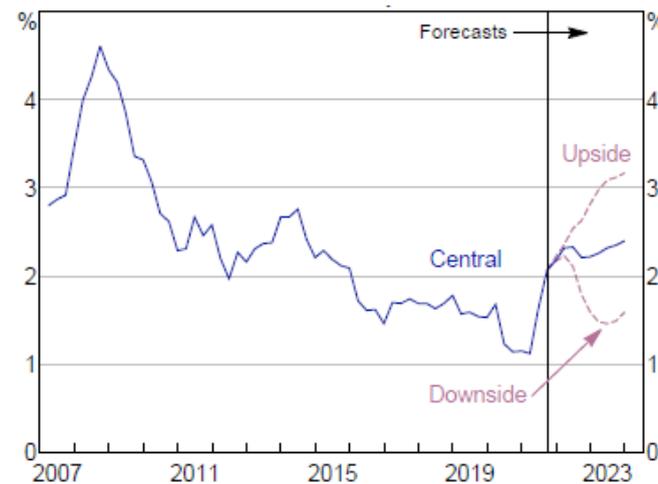
Unemployment



Wages



‘Underlying’ inflation



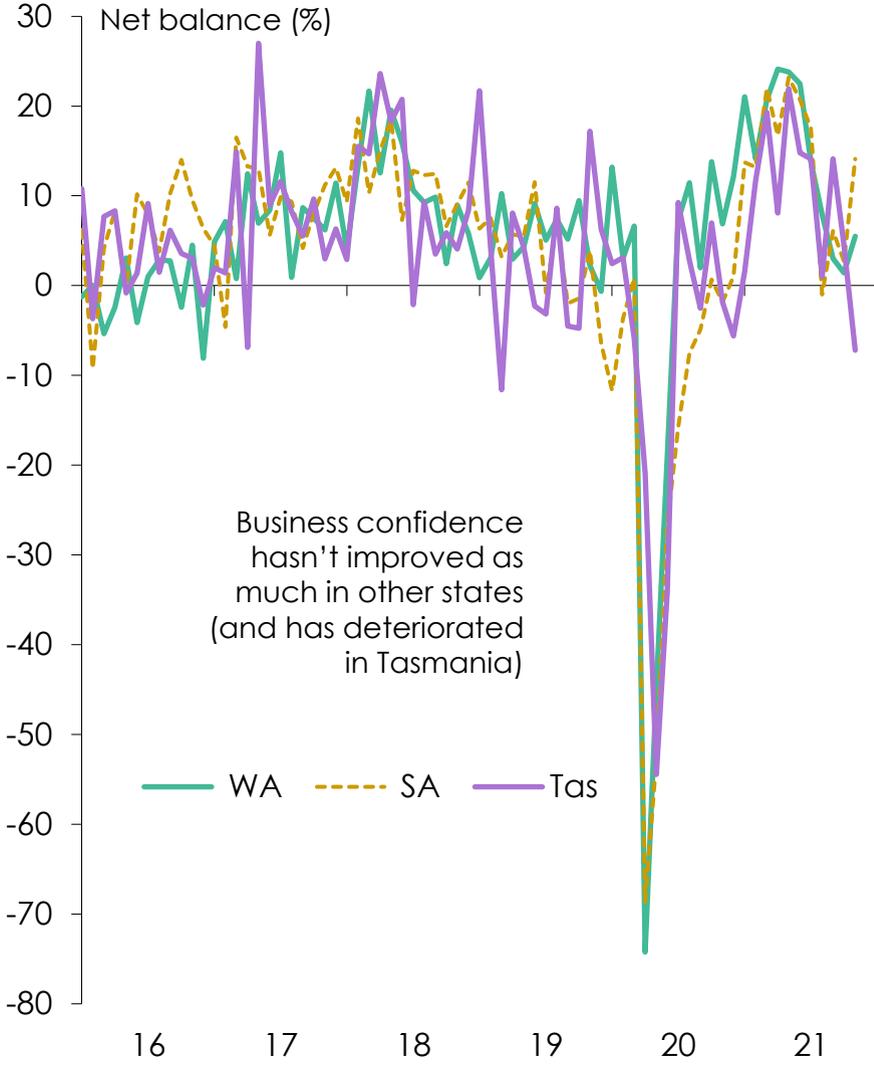
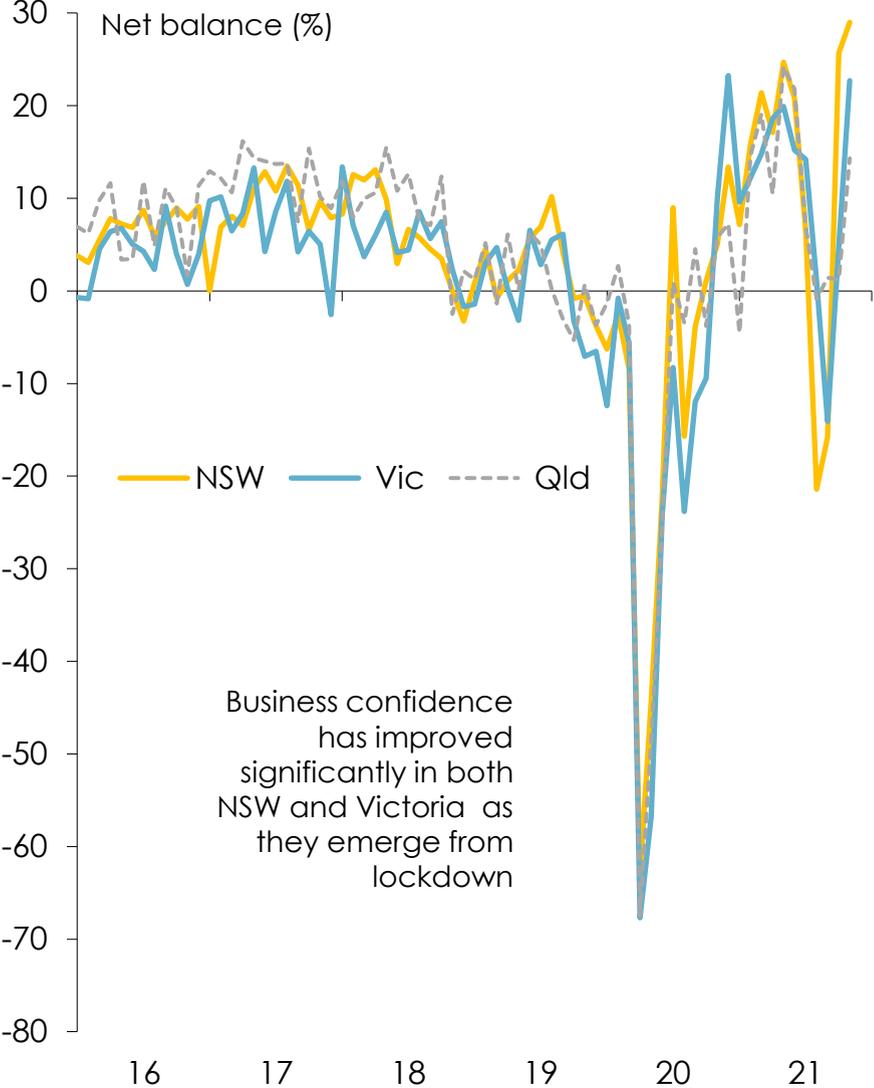
- ❑ In its latest [Statement on Monetary Policy](#) RBA expects that real GDP contracted by around 2½% in Q3 but that there will be a “rapid bounce back” in Q4 and in Q1 next year such that GDP grows by 5½% over the year to Q4 2022 before slowing to 2½% through 2023
- ❑ In this ‘central’ scenario the RBA expects the unemployment rate to fall from 4¾% in Q4 2021 to 4¼% by Q4 2022, and the more slowly to “just above 4% by the end of 2023” ...
- ❑ ... in which case wage inflation is expected to pick up to “above 2% by the end of 2021” and “to be around 3% by the end of 2023”
- ❑ ‘Underlying’ inflation is now expected to be “around 2¼ for much of the forecast period”, rising to “around 2½% by the end of 2023” ...
- ❑ ... which “could be consistent with the first increase in the cash rate being in 2024”
- ❑ In the SoMP the RBA also presents an ‘upside’ scenario “driven by stronger wealth effects [on household spending] and reduced uncertainty related to positive health outcomes” – with unemployment falling to 3¼% and inflation rising above 3% by end-2024” – in which case “an increase in the cash rate in 2023 could be warranted”
- ❑ However “the latest data and forecasts do not warrant an increase in the cash rate in 2022” in the RBA Board’s view

Business confidence again rose strongly in October as New South Wales and then Victoria came out of lockdown

Business confidence

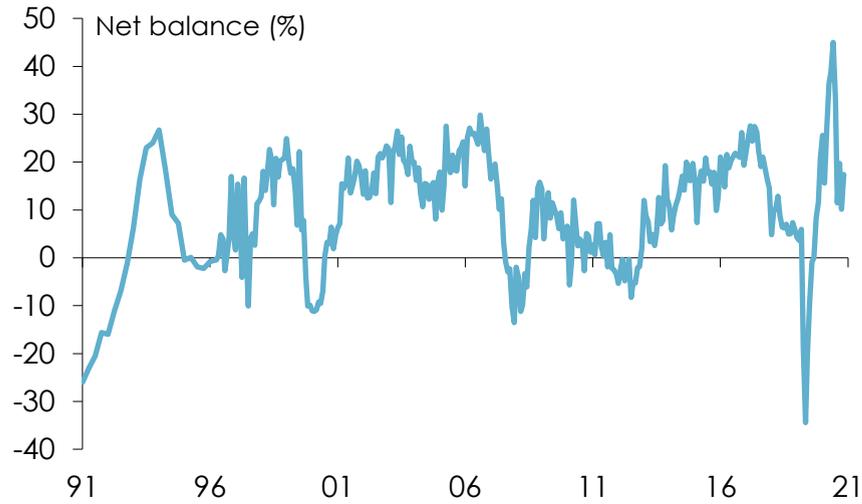


Business confidence, states and territories

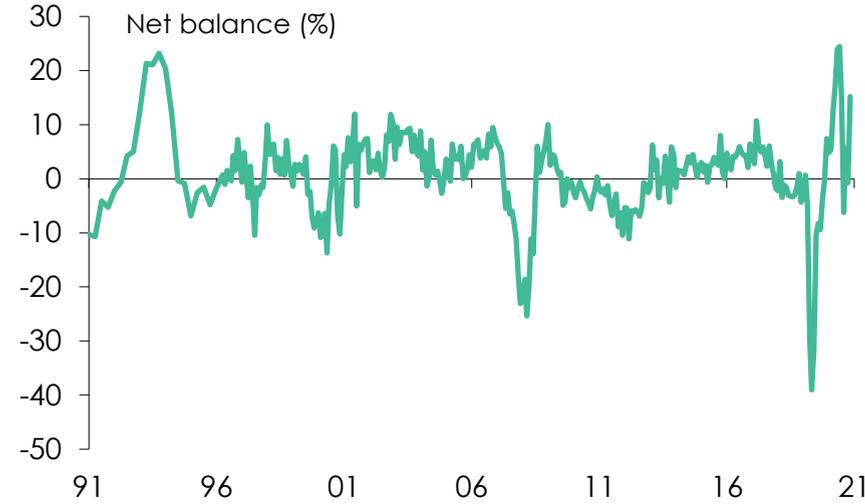


The improvement in actual business conditions in October was more modest, though there was an encouraging strong rise in forward orders

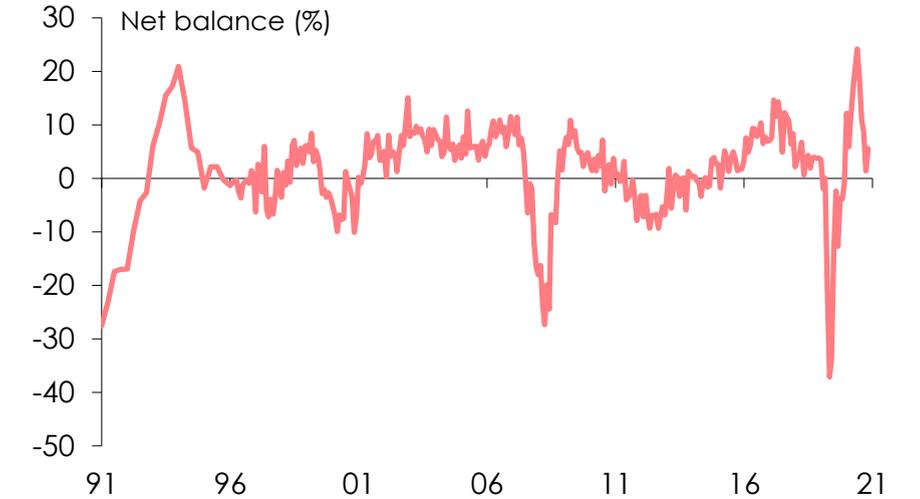
Trading conditions



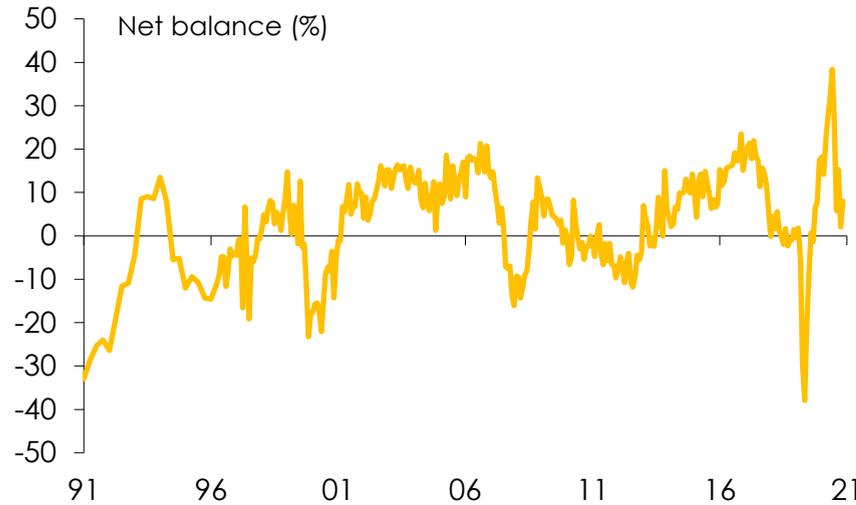
Forward orders



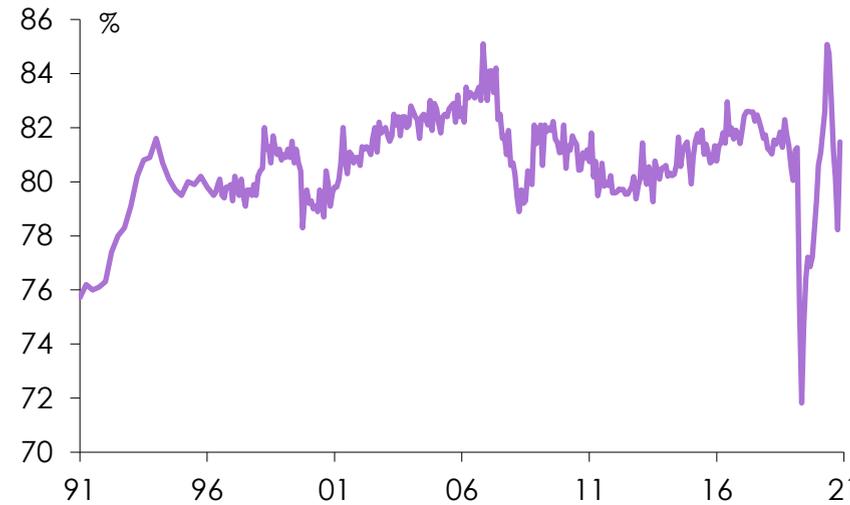
Employee hiring intentions



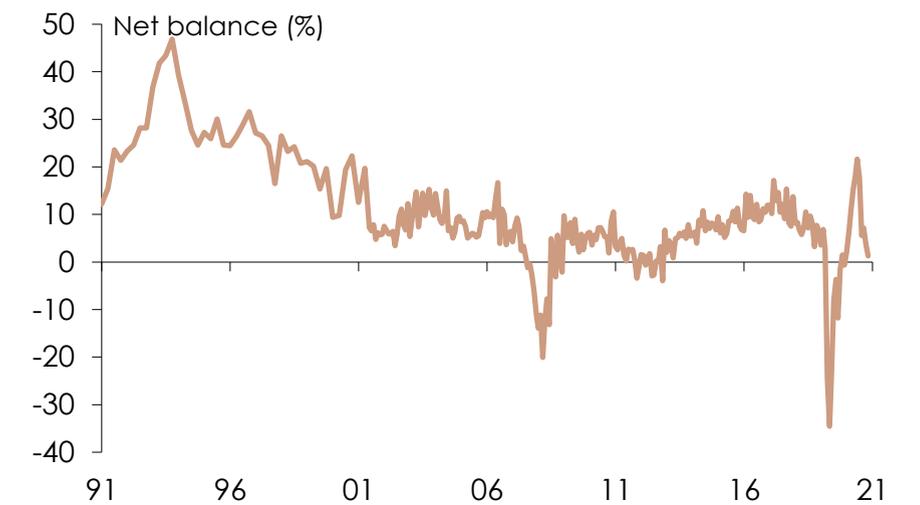
Profitability



Capacity utilization



Capital expenditure intentions

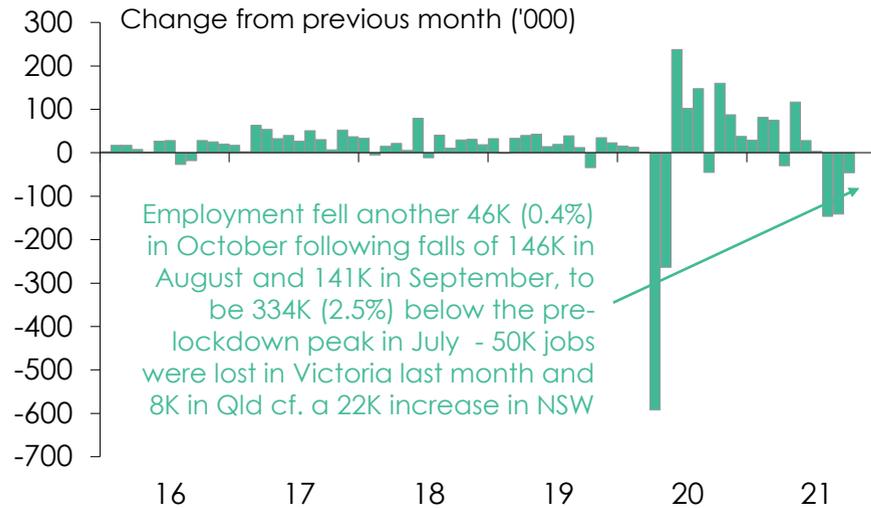


Note: Quarterly data up to March 1997 (May 2002 for capex intentions), monthly thereafter.

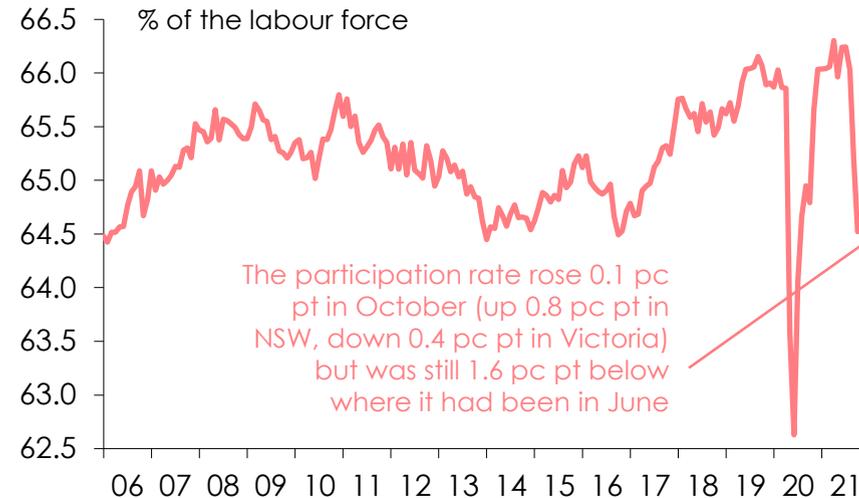
Source: National Australia Bank [Monthly Business Survey](#), October 2021; November survey results will be released on 8th December. [Return to "What's New"](#).

Employment fell another 46K in October, and the unemployment rose 0.6 pc pt to 5.2%, with the October survey pre-dating Victoria's re-opening

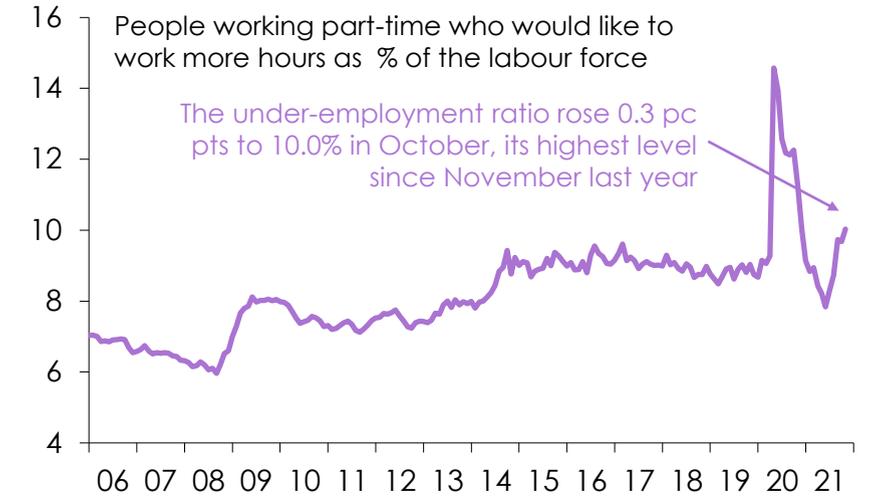
Employment



Labour force participation rate



Under-employment ratio



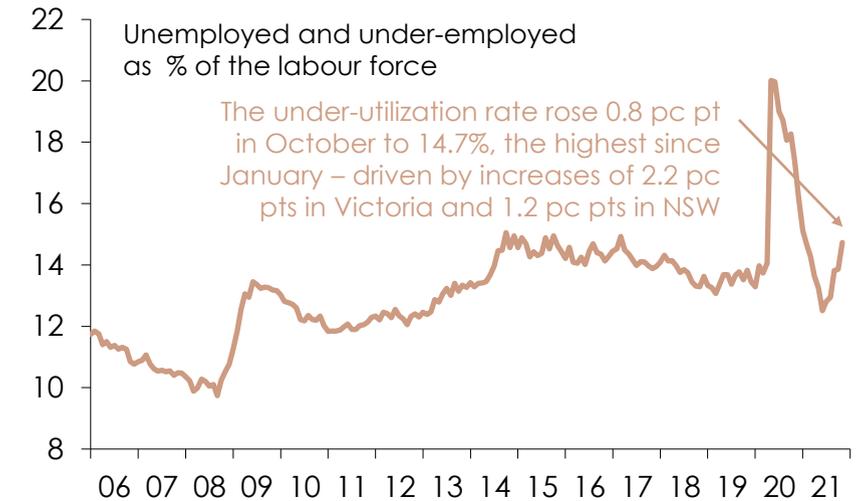
Total hours worked



Unemployment rate



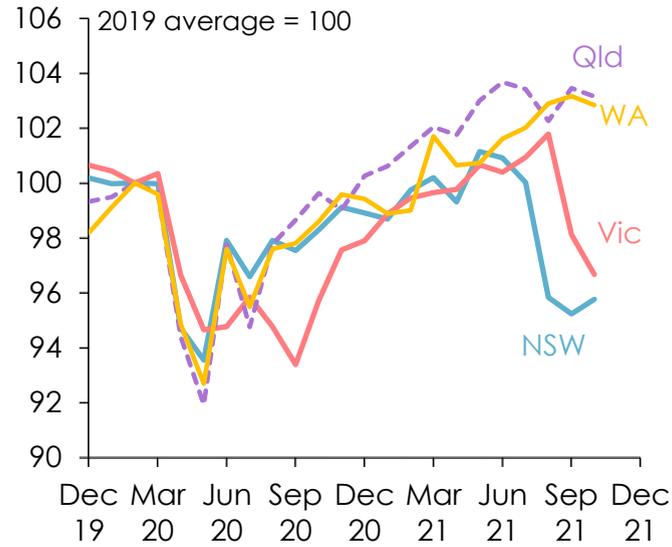
'Under-utilization' rate



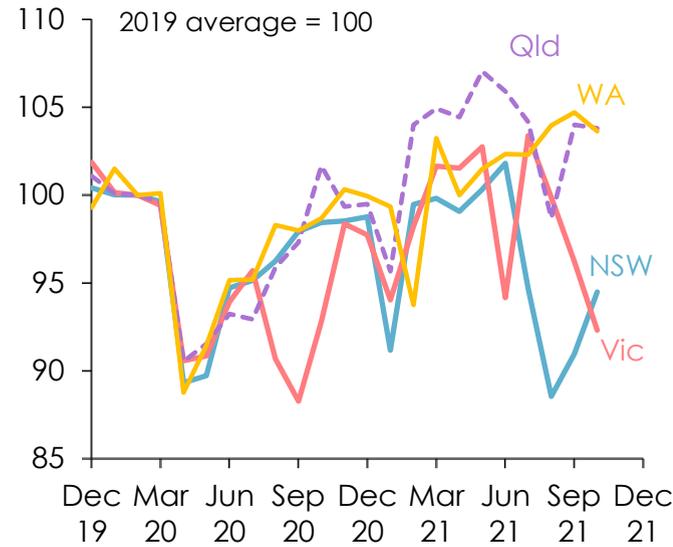
Source: ABS, [Labour Force, Australia](#), October 2021. November data will be released on 16th December. [Return to "What's New"](#).

The October labour force survey picked up the easing of restrictions in NSW, but not the (later) easing in Victoria

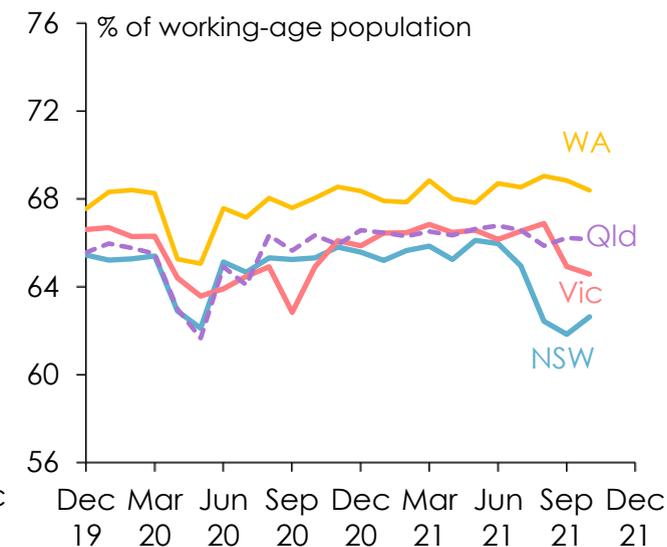
Employment



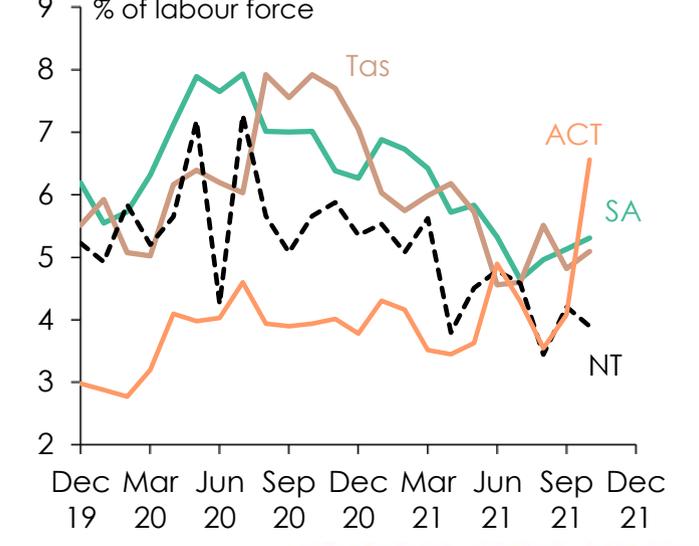
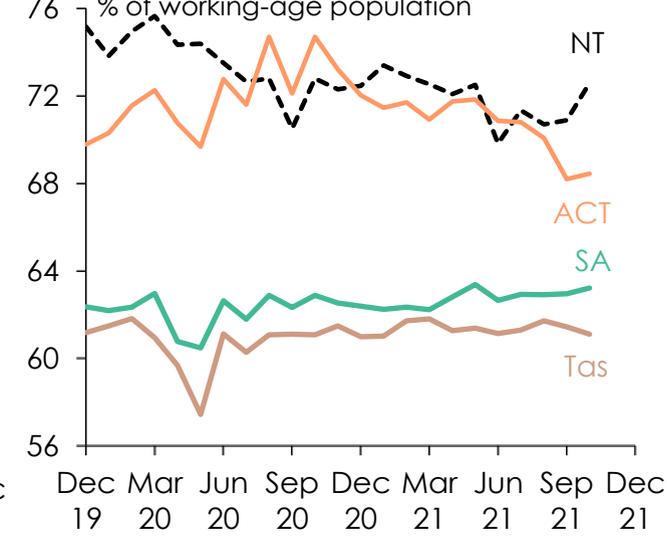
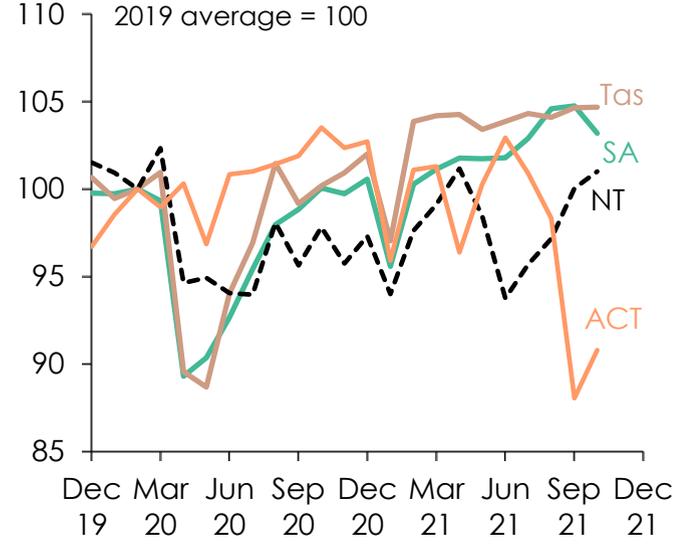
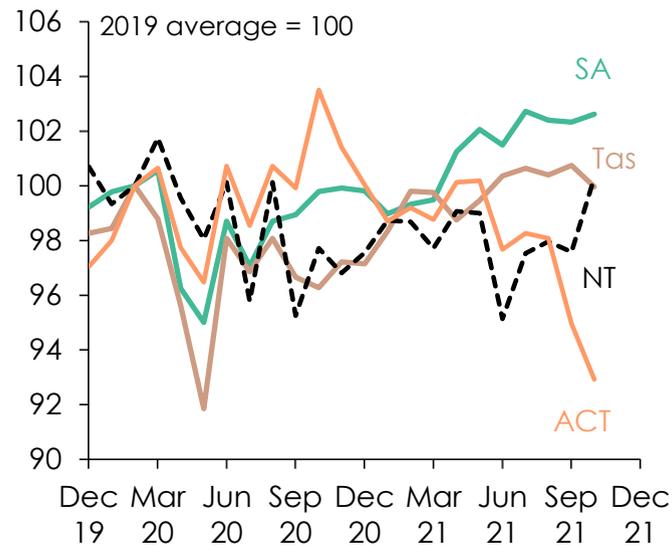
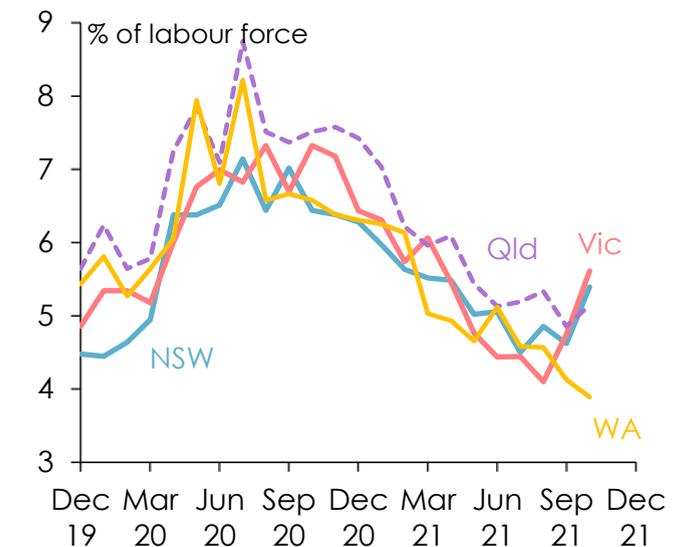
Hours worked



Participation rates



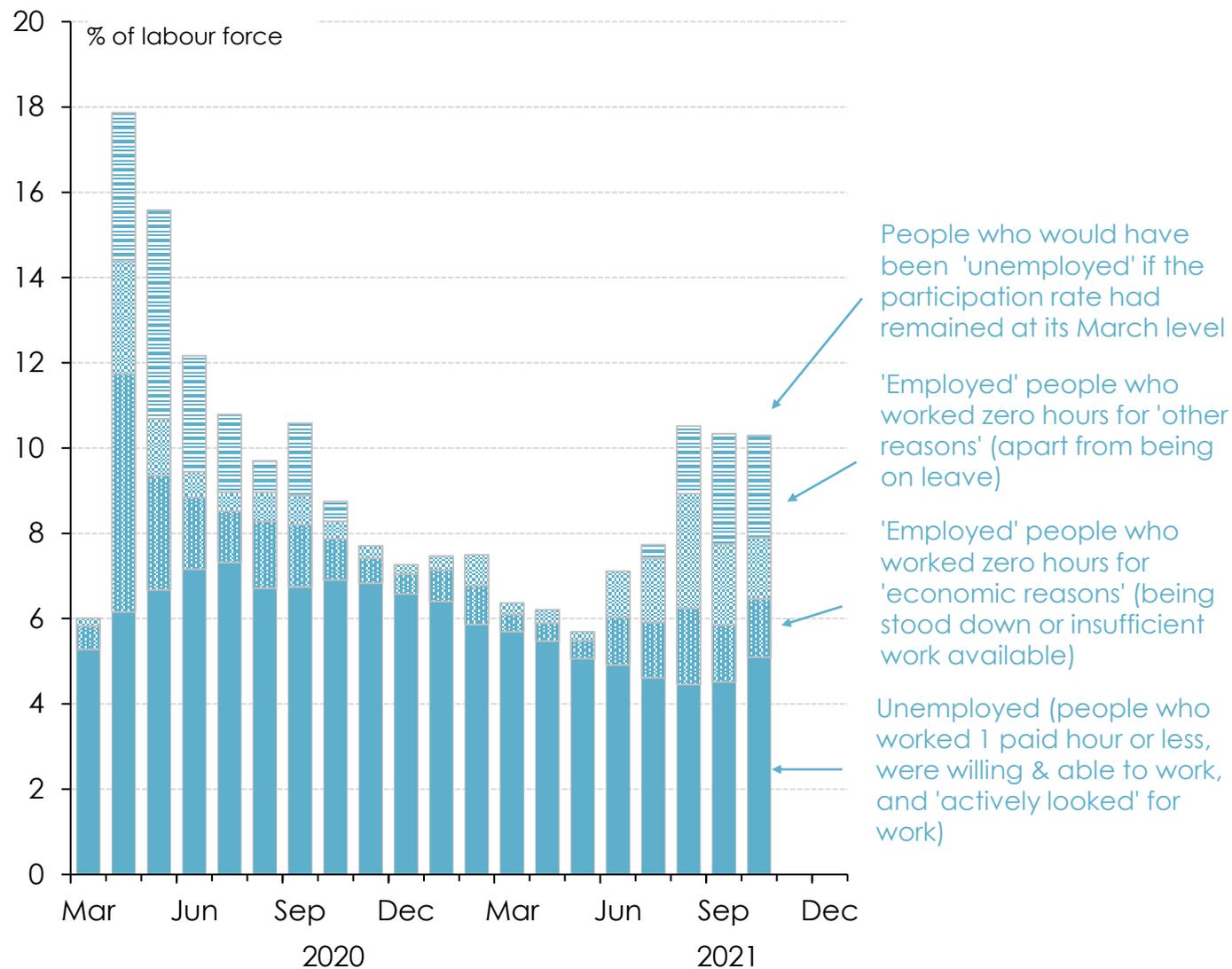
Unemployment rates



Source: ABS, [Labour Force, Australia](#), October 2021. November data will be released on 16th December. [Return to "What's New"](#).

The 'effective' unemployment rate remained unchanged at 10.3% in October, despite the rise in the 'official' rate

Alternative measures of unemployment

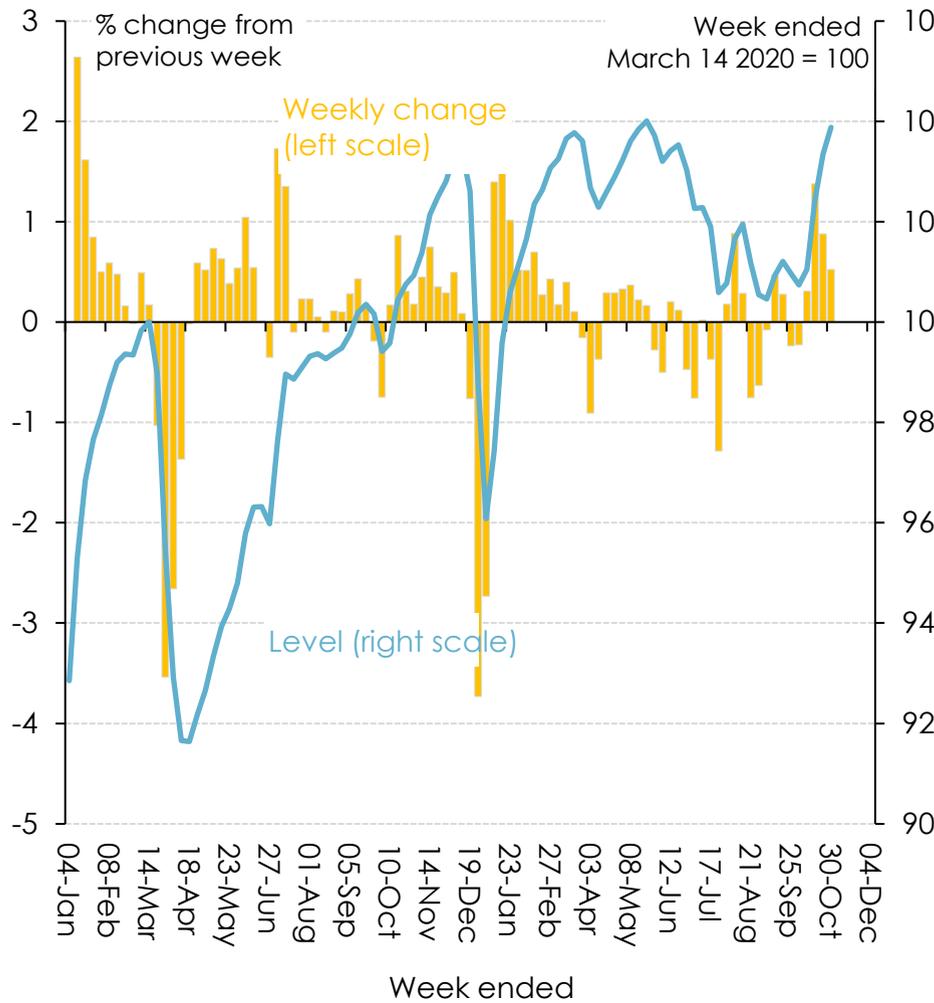


- ❑ The number of people counted as 'employed' but who worked zero hours for 'economic reasons' (no or insufficient work, or 'stood down') rose by 4½K in October (Victoria up 22½K, rest of Australia down 18K)
- ❑ The number of people counted as 'employed' but who worked zero hours for 'other reasons' (apart from being leave) fell by 64K in October (after a 108K decline in September), of which 49K was in NSW & 12K in the ACT
- ❑ The number of people who have 'dropped out' of the labour force (as indicated by the fall in the participation rate since May) fell 27K in October, to 333K
 - many if not most of these appear to be people who have 'worked zero hours' for more than 4 weeks and are hence classified as 'not in the labour force' if they haven't 'actively looked for work'
- ❑ Most of those who re-entered the labour force in October have yet to regain employment, thus adding to the number of 'officially' unemployed
- ❑ The 'effective' unemployment rate thus remained unchanged at 10.3% in October, up from a low of 5.7% in May
 - but it should drop (probably a lot) in November and December

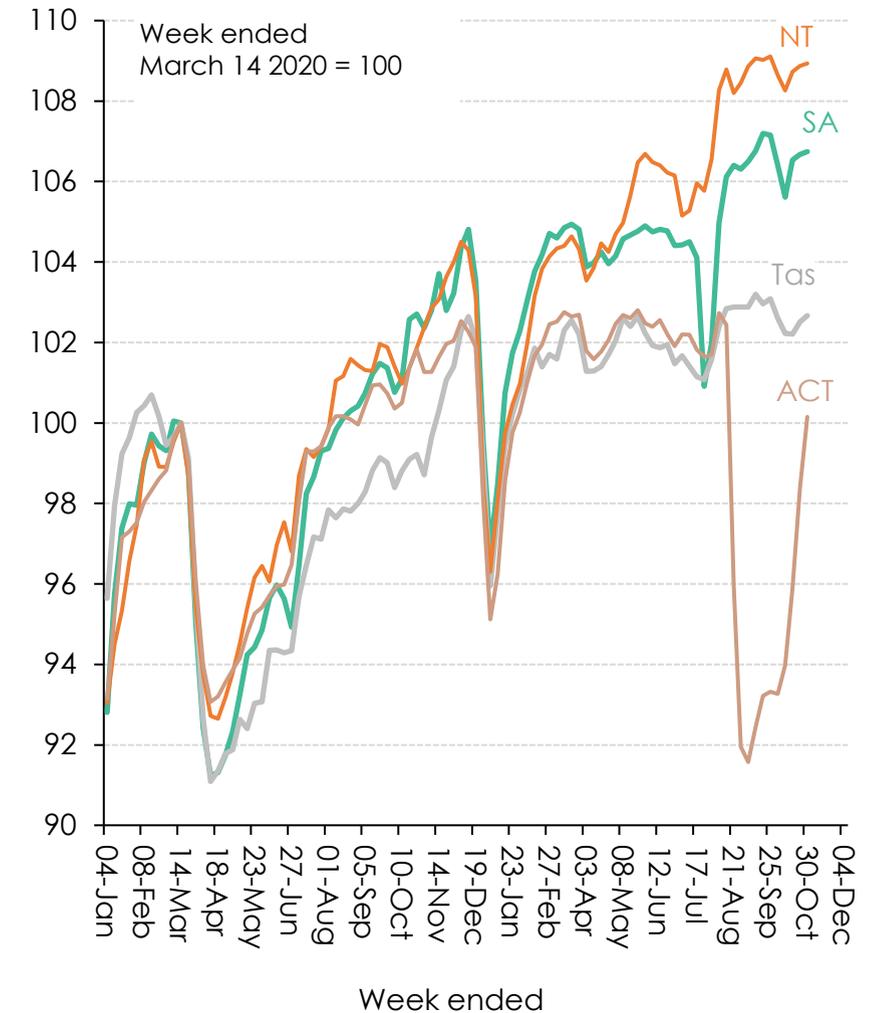
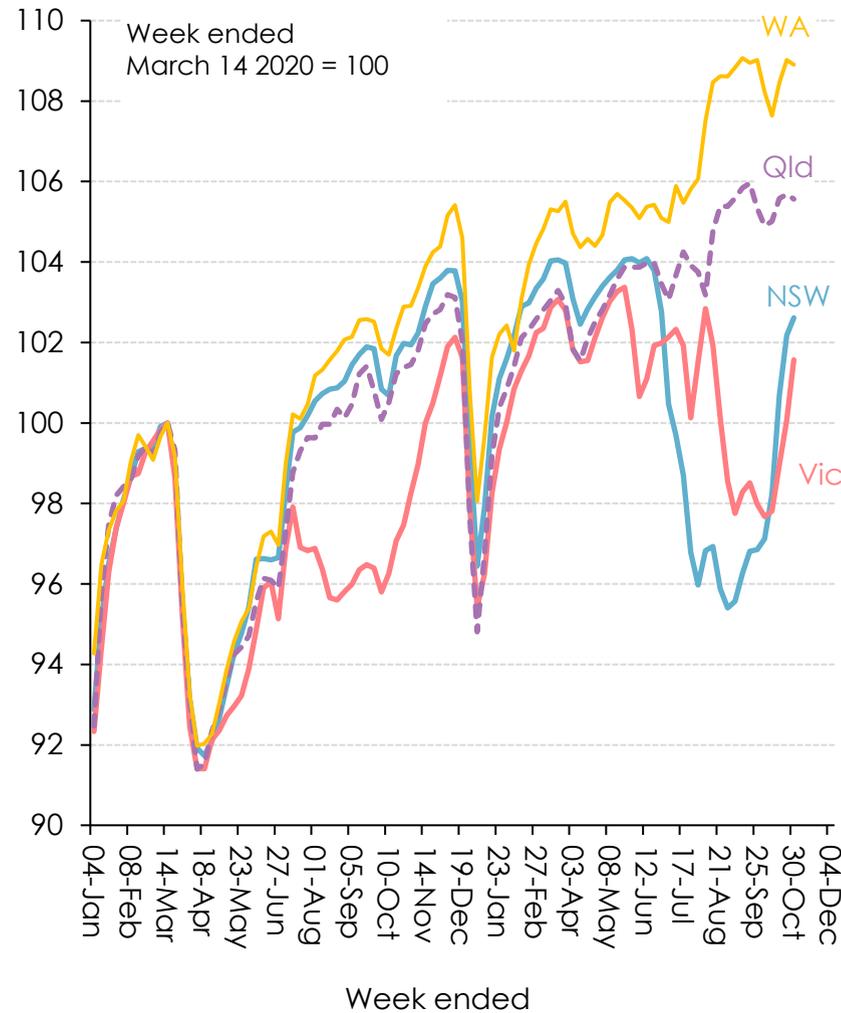
Source: ABS, [Labour Force, Australia](#), October 2021. November data will be released on 16th December. [Return to "What's New"](#).

Payroll jobs rose by 1.4% over the last two weeks of October, following a 1.7% gain in the first two weeks, to be 0.1% below the pre-lockdown peak

Level and weekly change in the number of payroll jobs



Payroll jobs by State & Territory

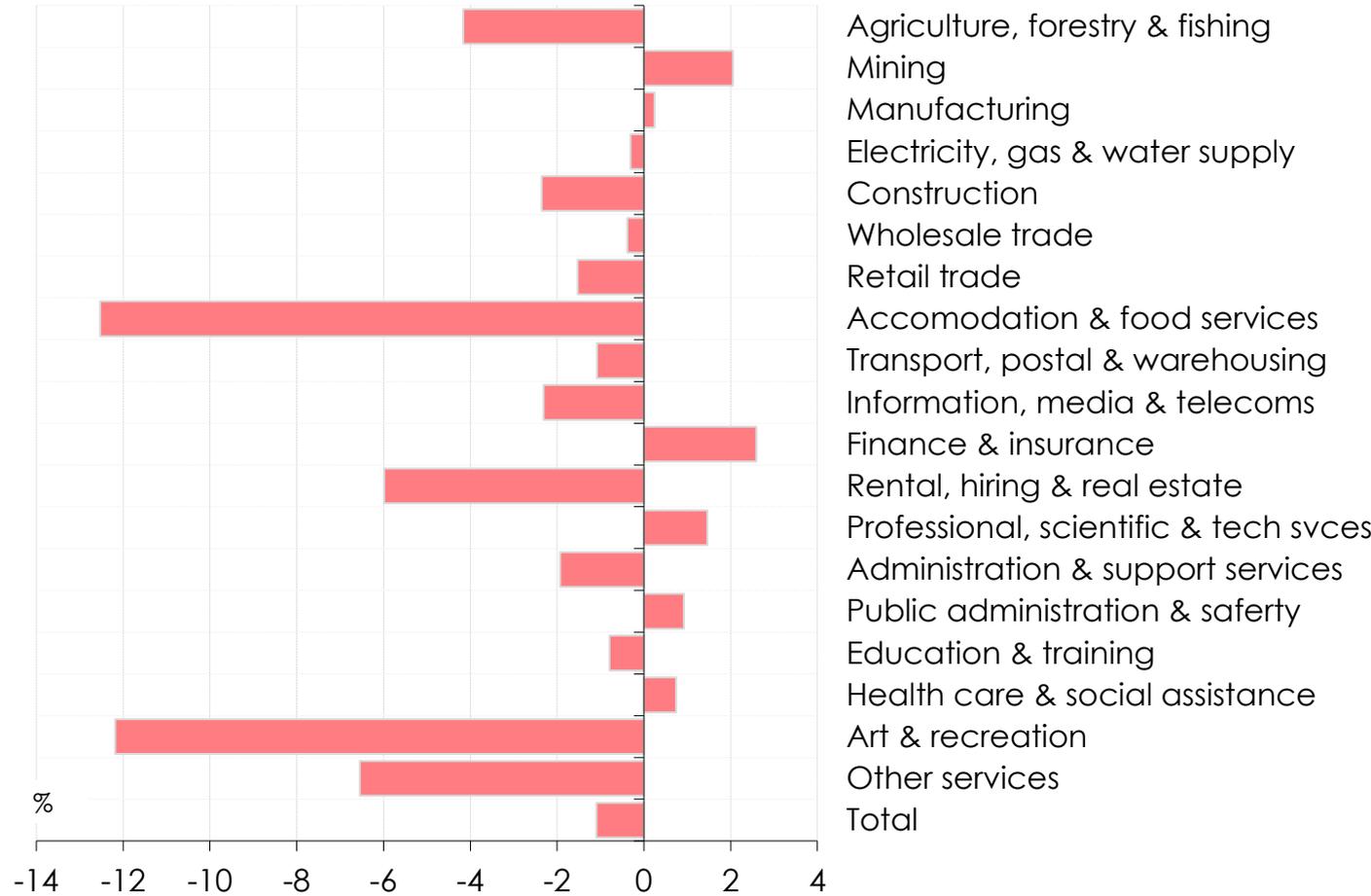


Source: ABS, [Weekly Payroll Jobs and Wages in Australia](#). Data refers to the number of payroll jobs at businesses participating in the Australian Taxation Office's Single Touch Payroll system, which covers 99% of employers with 20 or more employees and about 71% of smaller employees. People with two or more jobs (about 6% of the total) are double-counted; employers and the self-employed are not included. Data are not seasonally adjusted (so at least some of the week-to-week variations could be due to 'normal' seasonal factors); and the two most recent weeks are subject to (what have often been large) revisions. [Return to "What's New"](#).

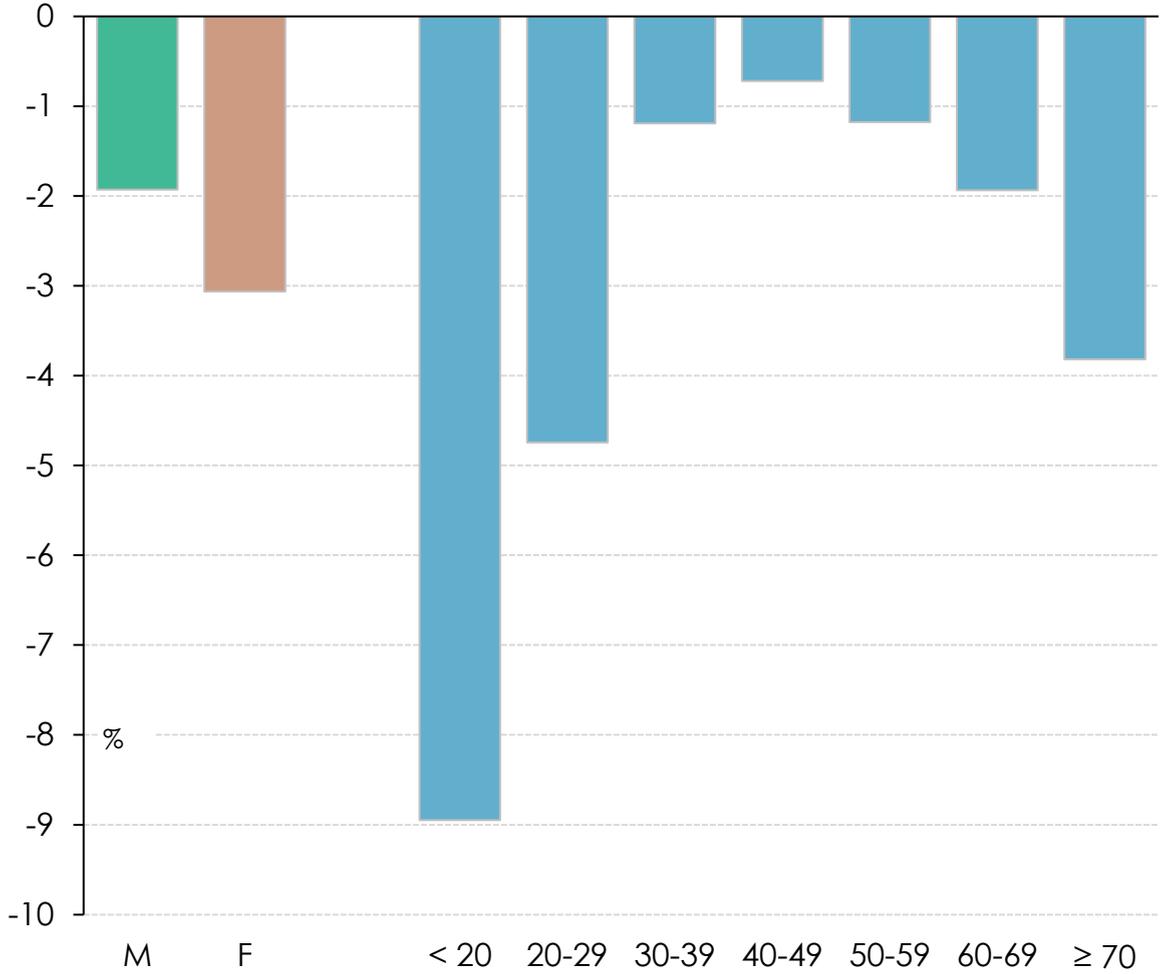
The same sectors, and the same groups, that were hardest hit in last year's lockdowns have been hardest hit in the latest one (plus agriculture)

Net change in payroll jobs between week ended 3rd July and week ended 16th October

By industry



By gender and age



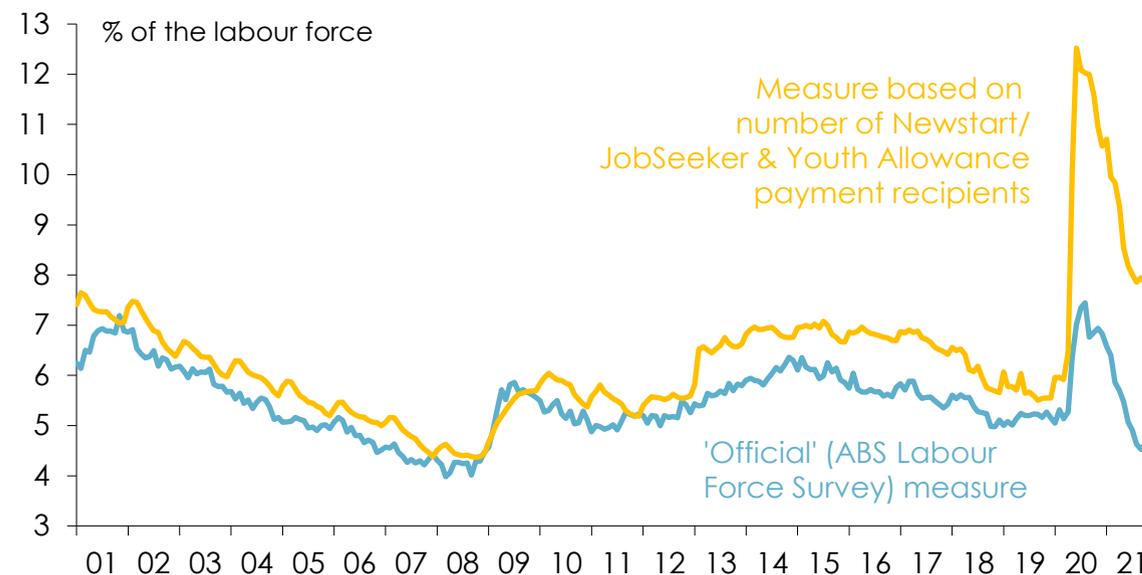
Source: ABS, [Weekly Payroll Jobs and Wages in Australia](#). Data refers to the number of payroll jobs at businesses participating in the Australian Taxation Office's Single Touch Payroll system, which covers 99% of employers with 20 or more employees and about 71% of smaller employees. People with two or more jobs (about 6% of the total) are double-counted; employers and the self-employed are not included. Data are not seasonally adjusted (so at least some of the week-to-week variations could be due to 'normal' seasonal factors); and the two most recent weeks are subject to (what have often been large) revisions. [Return to "What's New"](#).

As of mid-November the number of people receiving joblessness-related income support payments has fallen to its lowest level since last March

Number of people receiving or seeking Newstart/ JobSeeker or Youth Allowance payments



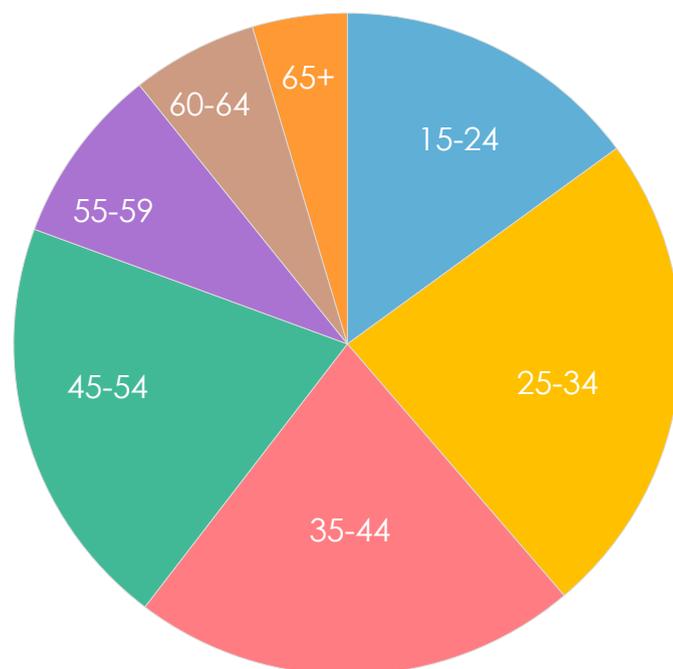
Jobless income support beneficiaries and labour force survey unemployed as a pc of the labour force



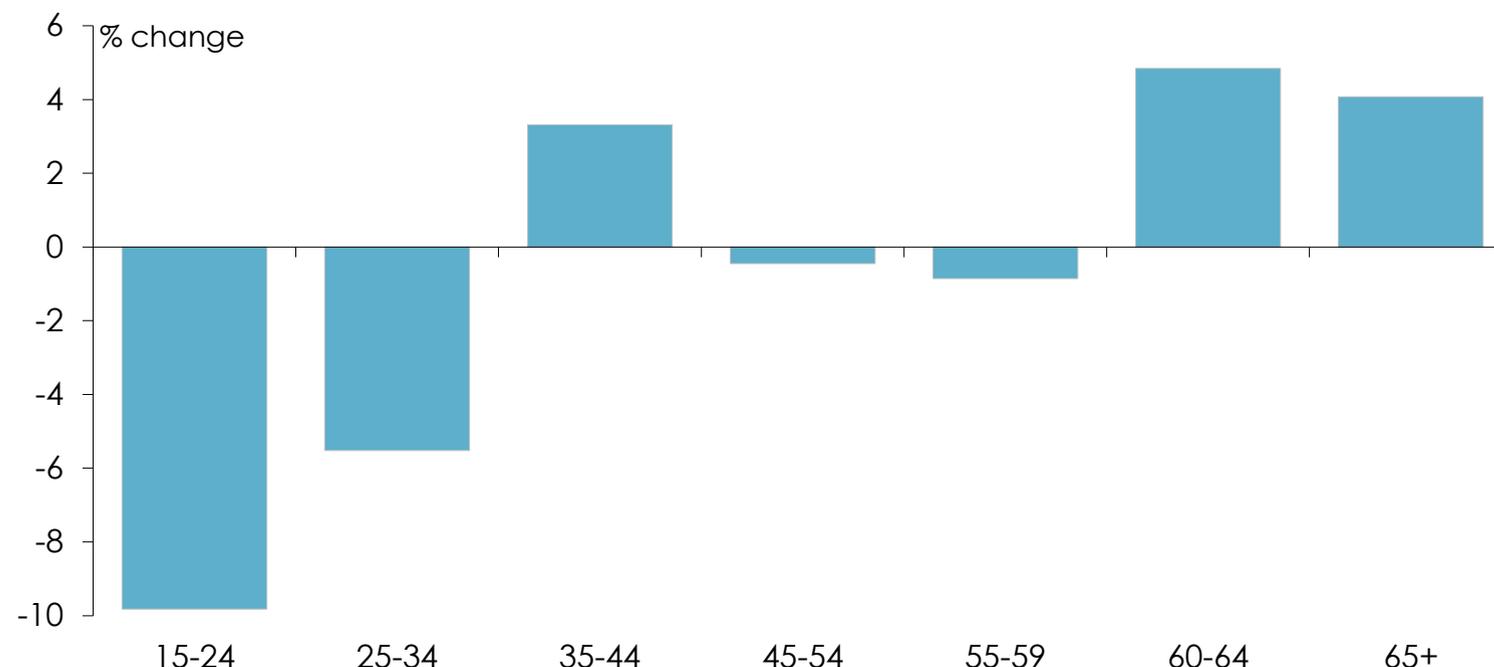
- ❑ Ministers receive weekly data on the number of people on JobSeeker and Youth Allowance (Other) benefits – which since late July last year the Department of Social Services has made this available (roughly) every second week to the Senate Select Committee examining the Government’s responses to Covid-19
- ❑ The number of people receiving JobSeeker or Youth Allowance (Other) payments fell by another 26,520 (2.6%) over the two weeks to 12th November, to just over 1mn – the lowest number since 20th March last year, just after the onset of the pandemic
- ❑ People displaced from employment during recent lockdowns were entitled to receive a range of other payments from the Federal or state governments, though these have now ceased with vaccination targets having been reached and lockdowns ended (see [slide 132](#))

Younger workers bore the brunt of job losses during the early stages of the pandemic and have had a more difficult time regaining jobs

Composition of employment by age group, February 2020



Change in employment between February 2020 and October 2021, by age group

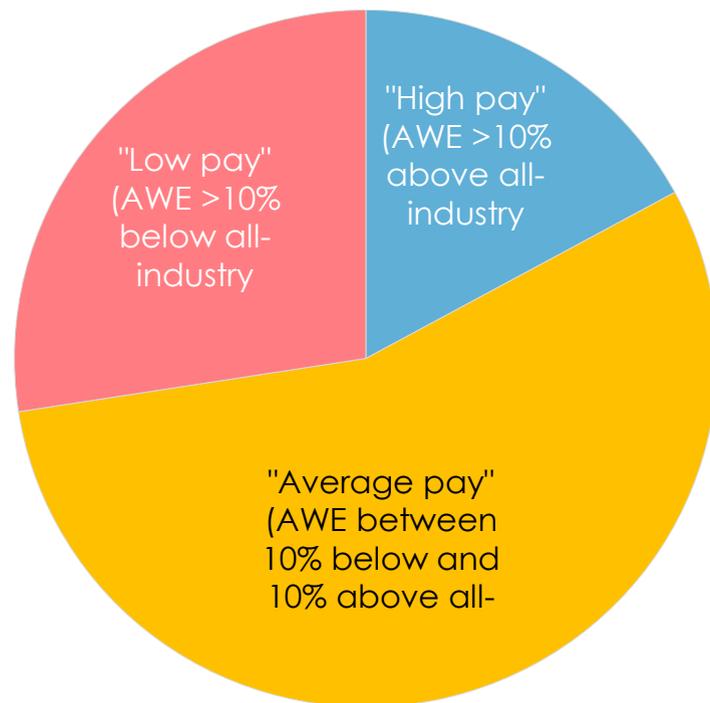


- ❑ People aged 15-24 accounted for 15% of pre-covid employment but experienced 39% of all job losses between February and May last year – and 46% of all job losses between June and October this year – their employment is down 9.8% from the pre-pandemic peak in February last year
- ❑ Likewise 25-34 year-olds accounted for 25% of all job losses between February and May last year, and for 29% of all job losses between June and August this year – their employment is down 5.5% from February last year
- ❑ By contrast most older age groups have fared much better, in particular 35-44 year-olds, and the (relatively smaller number of) people aged 60 and over

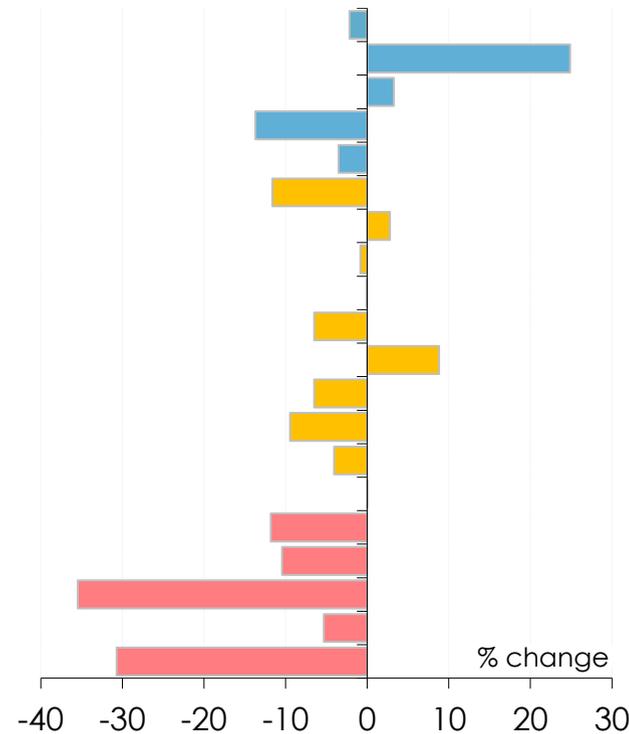
Note: data on employment by age group is not seasonally adjusted. Source: ABS, [Labour Force, Australia, Detailed](#), October 2021: November data will be released on 23rd December. [Return to "What's New"](#).

Workers in low-pay industries experienced the bulk of job losses during the downturn and the greatest difficulty regaining them since then

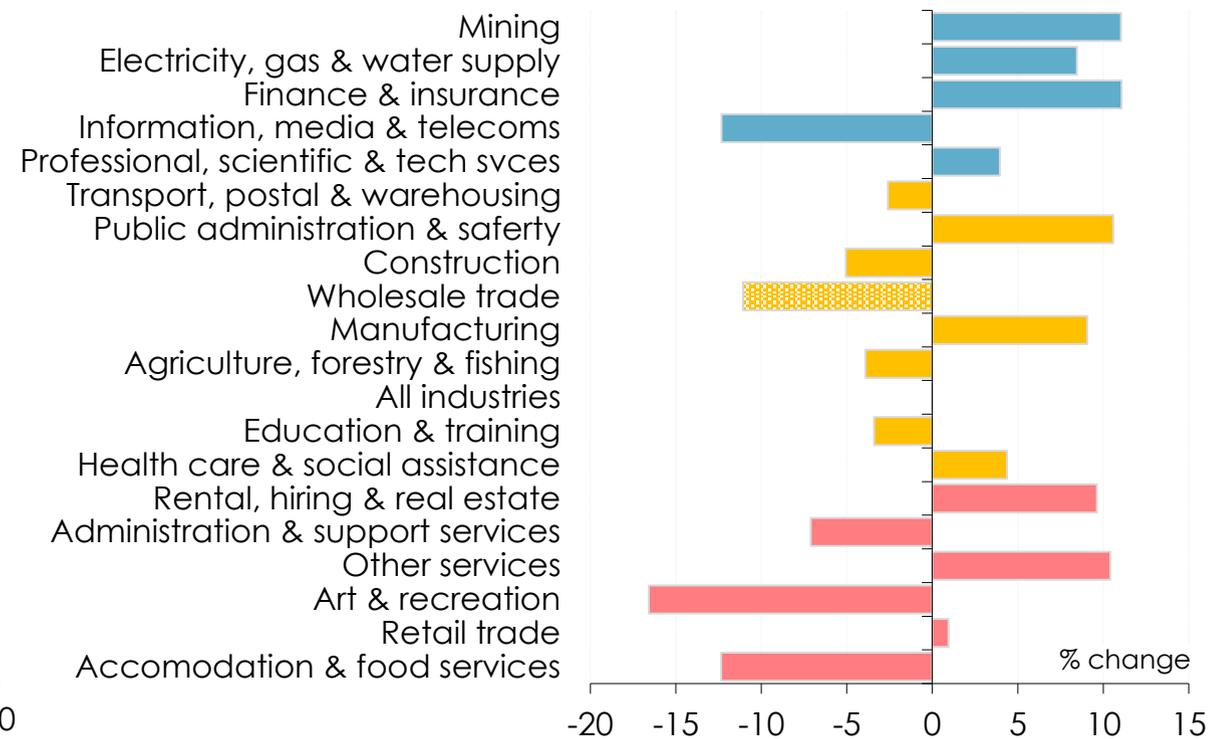
Composition of employment by industry ranked by average weekly earnings, February 2020



Change in employment by industry
February-May 2020



February 2020 – August 2021

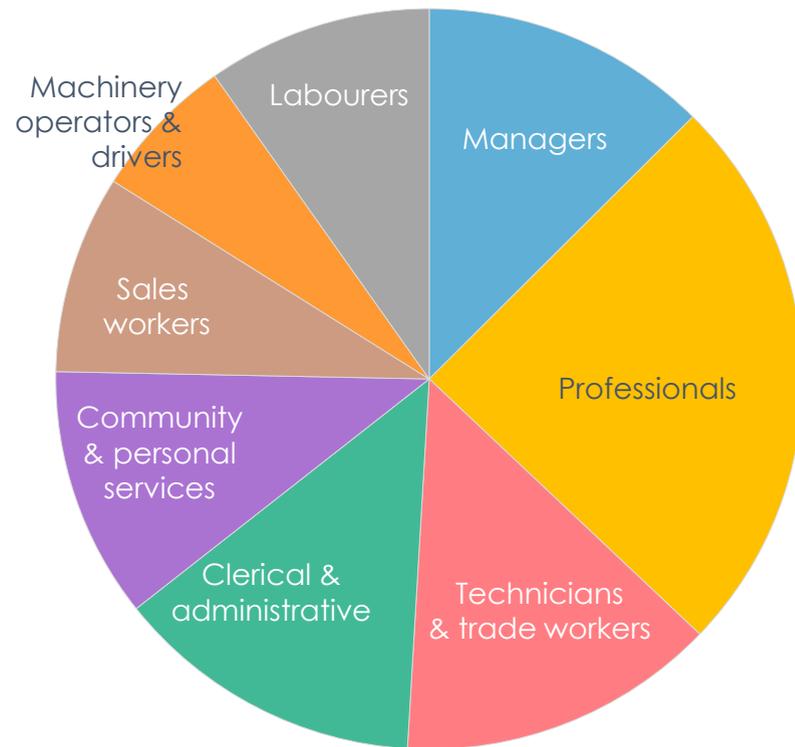


- ❑ Industries with average earnings which are 10% or more below average accounted for 27½% of the pre-pandemic workforce, but experienced 64% of the job losses between February and May last year – and 89% of job losses between May and August this year – employment in these industries was down 2.9% between February last year and August this year
- ❑ By contrast employment in “high pay” industries (17% of the pre-pandemic workforce) was 4.9% higher in August than it had been in February last year

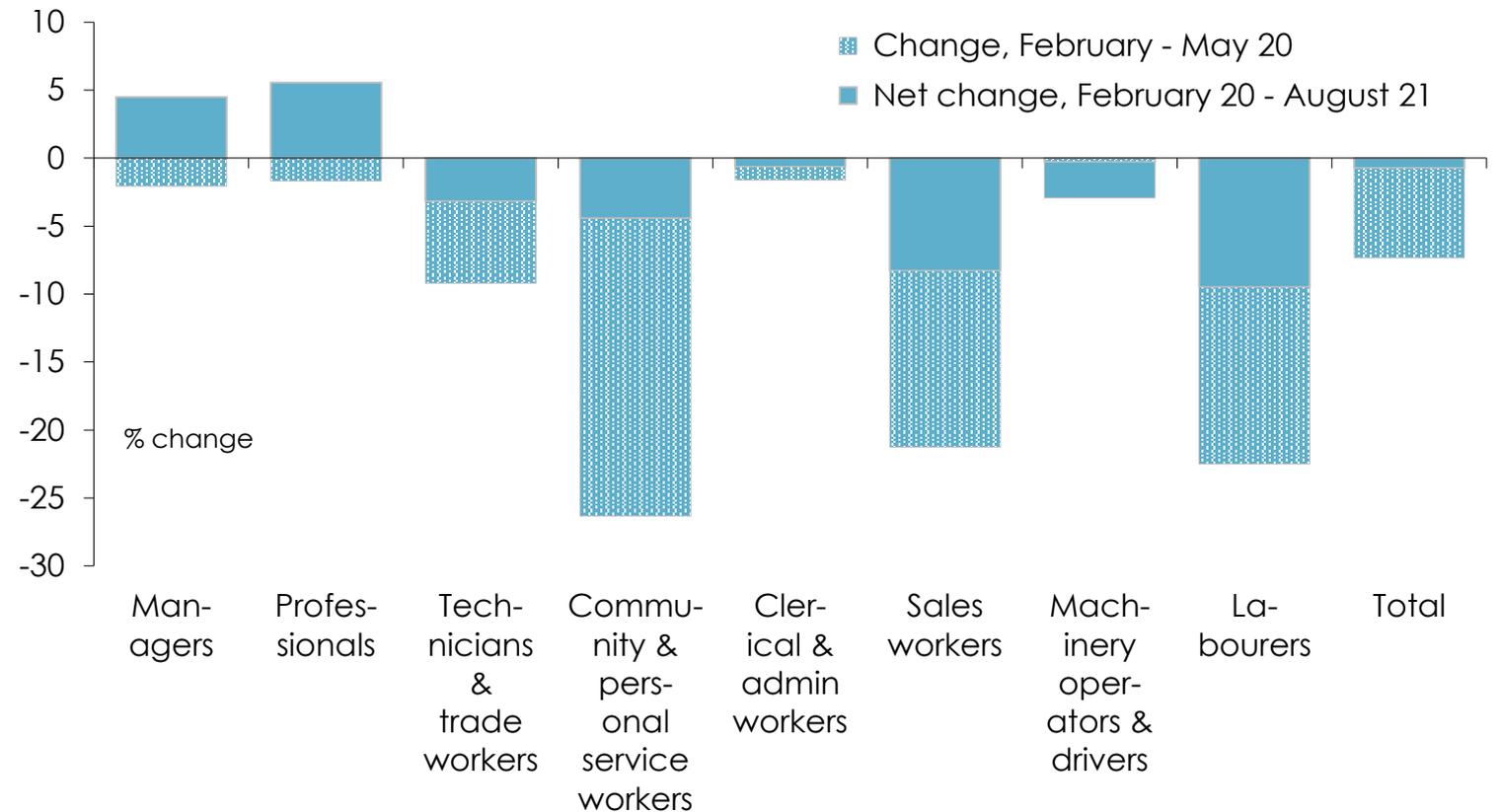
Source: ABS, [Labour Force, Australia, Detailed](#), August 2021 and [Average Weekly Earnings, Australia](#), November 2019. Labour force survey data on employment by occupation are available only for the middle month of each quarter: November data will be released on 23rd December. [Return to "What's New"](#).

Community & personal service workers, sales workers and labourers have borne the brunt of job losses since the onset of the pandemic

Employment by major occupation category, February 2020



Change in employment between February 2020 and August 2021, by occupation

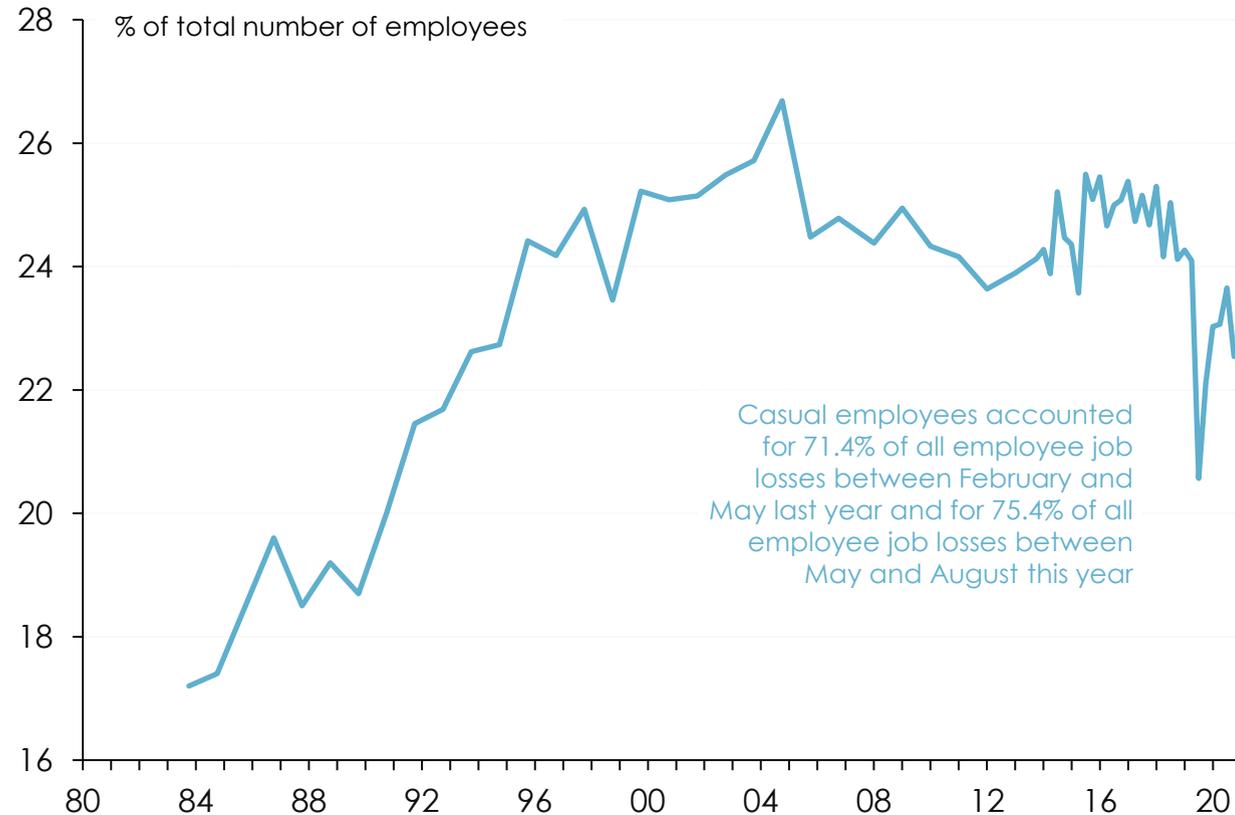


- Community & personal services workers, sales workers and labourers accounted for 29% of the pre-covid work force, but experienced 73% of the job losses between February and May last year – and for 73% (again) of job losses between May and August this year – and there were 7.2% fewer of them in August than in February last year
- ... whereas there are 5.2% more employed managers and professionals than there were in February last year

Source: ABS, [Labour Force, Australia, Detailed](#), August 2021. Labour force survey data on employment by occupation are available only for the middle month of each quarter: November data will be released on 23rd December. [Return to "What's New"](#).

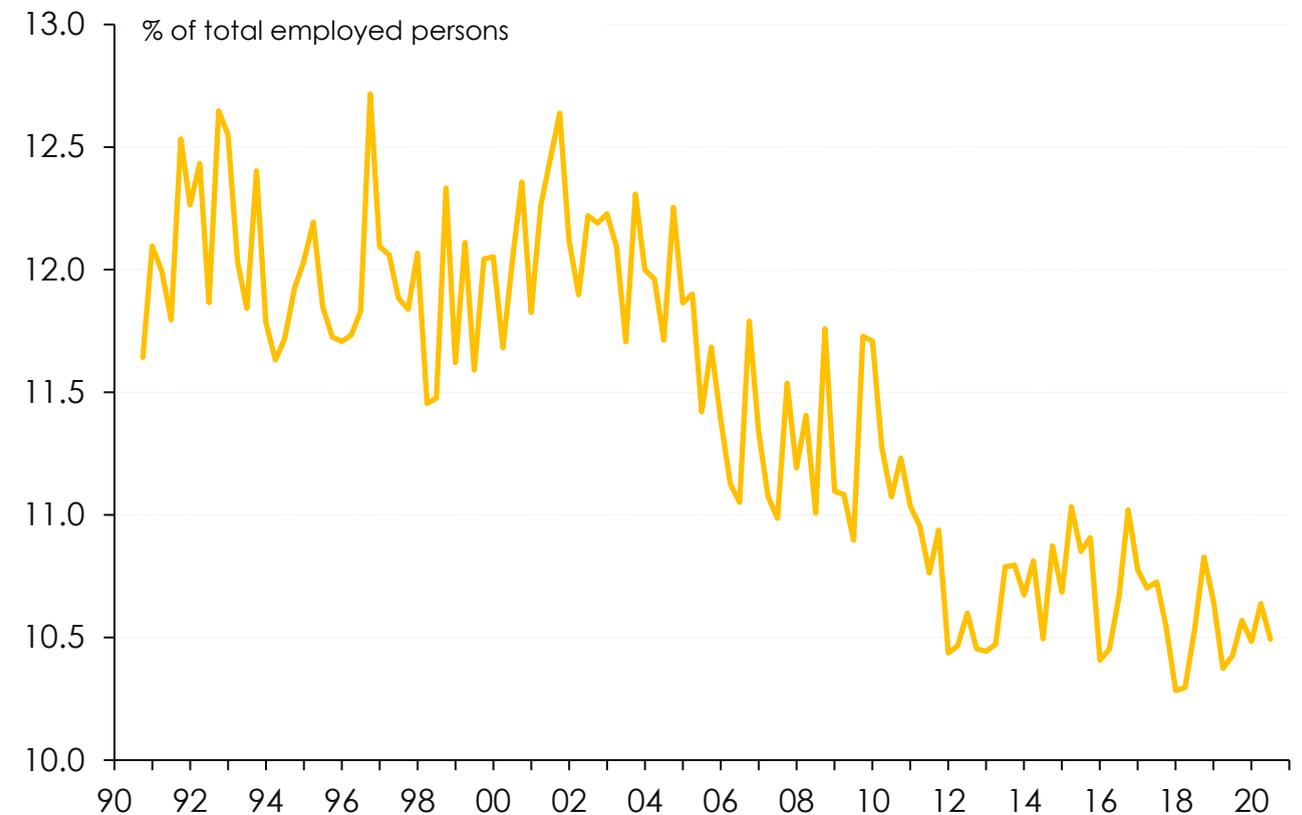
Contrary to popular belief neither casual jobs nor 'gig economy' jobs have become more commonplace during the past two decades

'Casual' employees (those without any kind of paid leave entitlement) as a pc of total



- ❑ Casual employment increased significantly as a share of the total during the 1980s, 1990s and early 2000s but has not changed significantly since then – except for a sharp drop during the current recession

Owner-managers of unincorporated enterprises with no employees as a pc of total employment

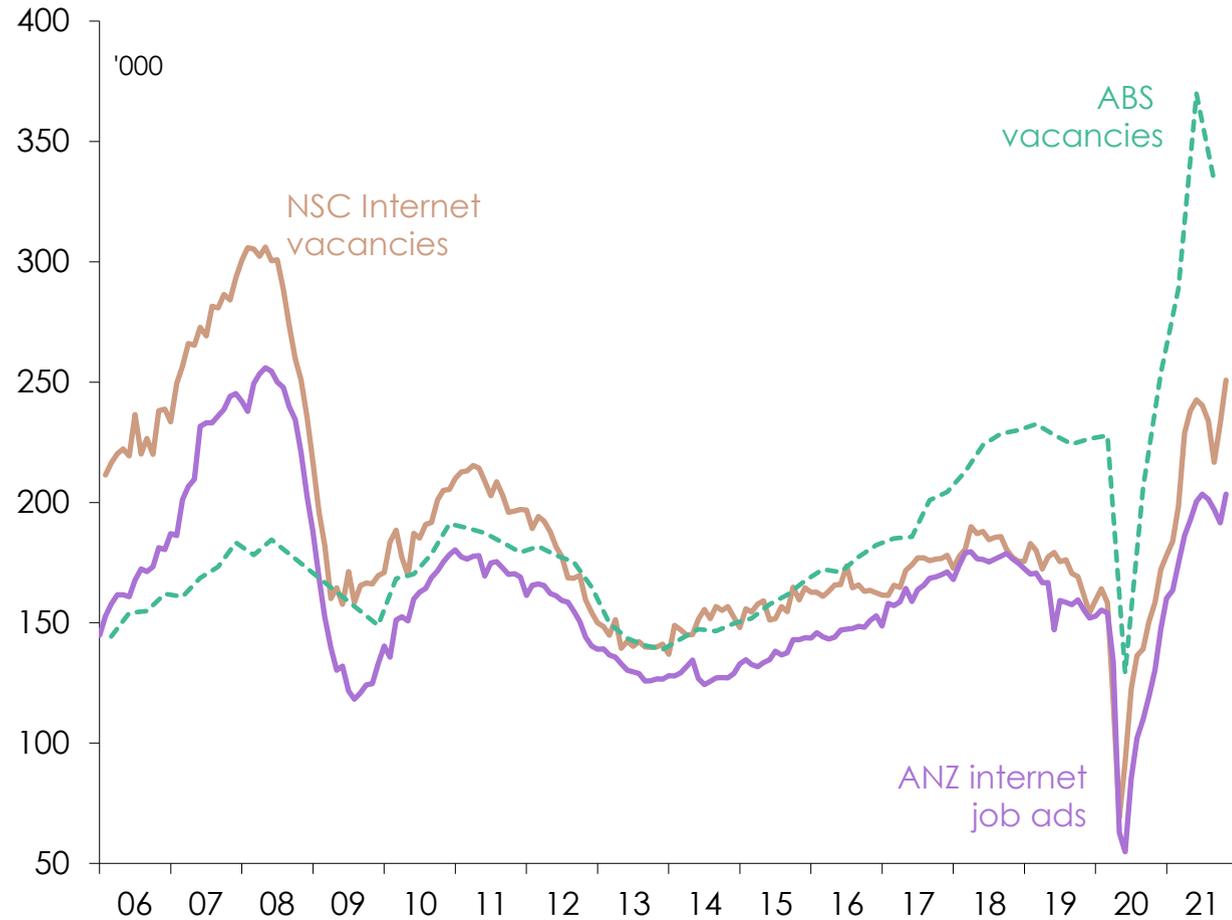


- ❑ 'Independent contractors' have actually declined as a share of the workforce since the early 2000s – had haven't increased during the current recession

Note: data on casual employment are for August between 1984 and 2008; for November between 2009 and 2013; and for the middle month of each quarter since then; data on owner-managers are for the middle month of each quarter. Sources: ABS, [Characteristics of Employment, Australia](#), and earlier equivalents; [Labour Force, Australia, Detailed](#); and [Employee Earnings, Benefits and Trade Union Membership, Australia](#). [Return to "What's New"](#).

Job vacancies have rebounded swiftly from their recession lows – there are now fewer than two jobseekers for every vacancy, a record low

Measures of job vacancies



- ❑ Job advertisements and vacancies fell only slightly during the NSW and Victorian lockdowns, and have rebounded strongly in October

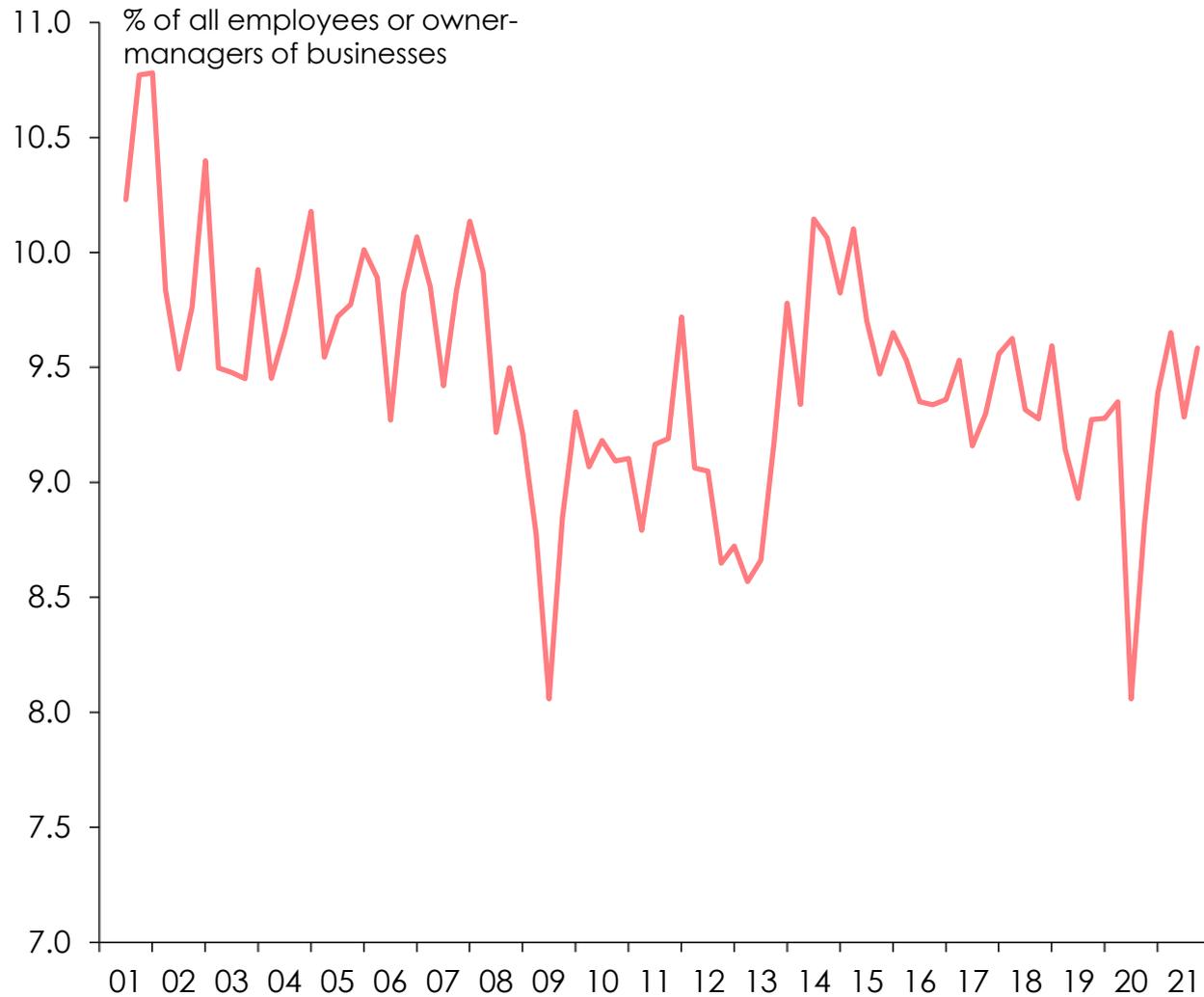
Ratio of unemployed people to job vacancies



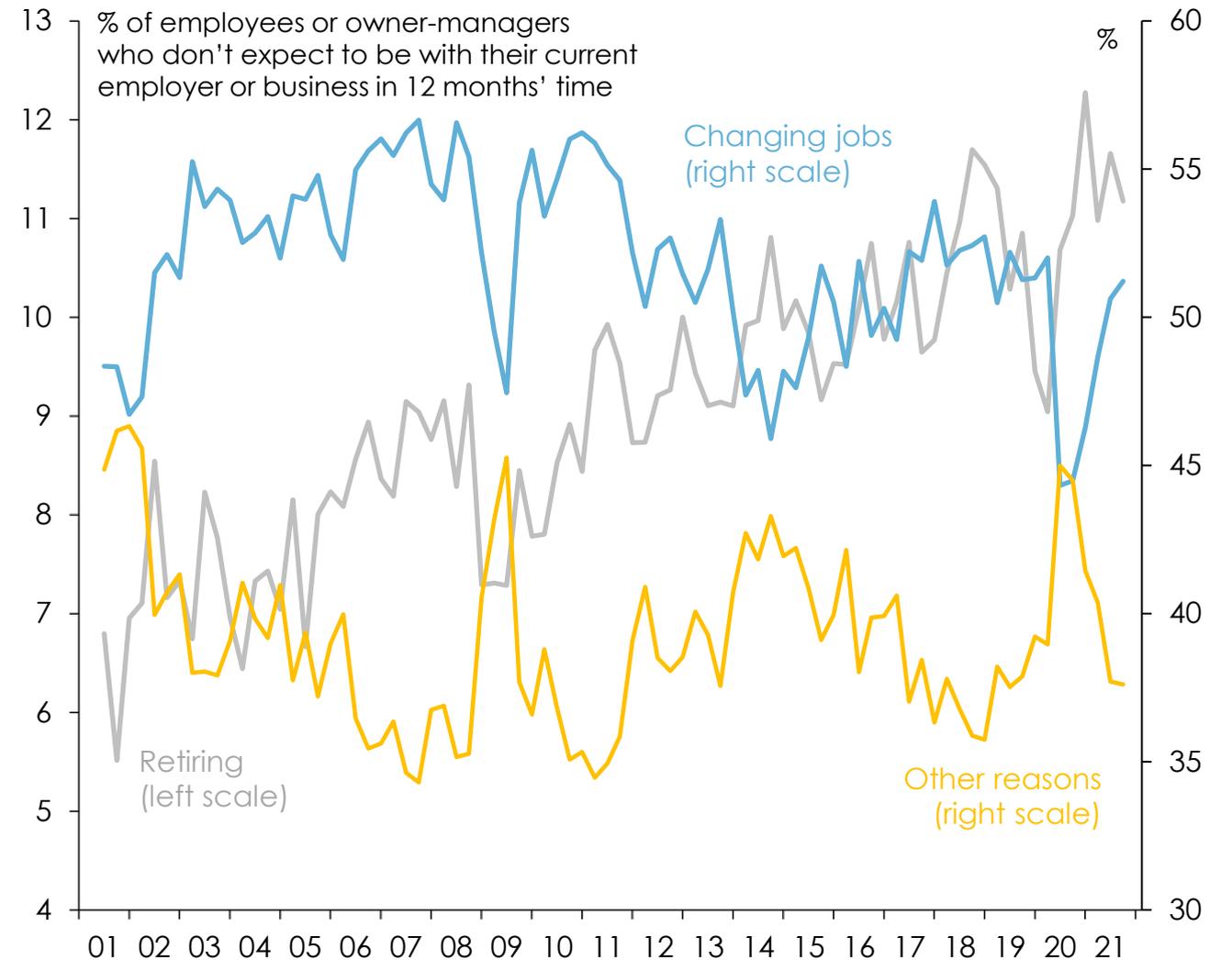
- ❑ The ratio of unemployed people to the number of job vacancies remain close to a record low in August

There's no evidence of a US-style 'Great Resignation' in Australia – especially when allowance is made for retirements

Proportion of employees who don't expect to be with their current employer or business in 12 months' time



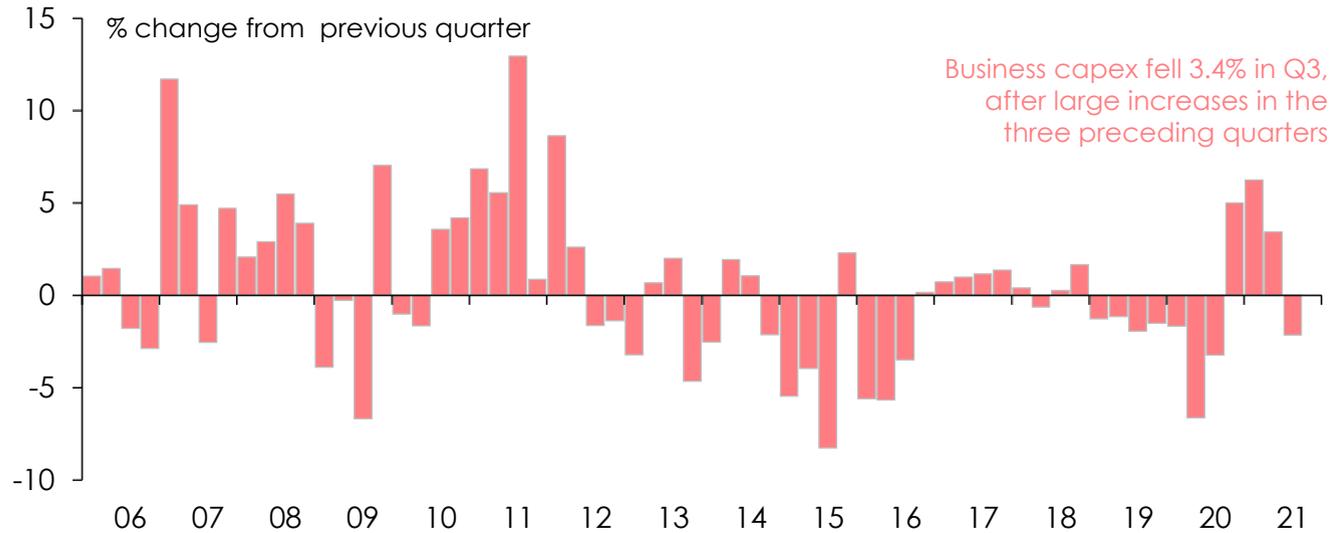
Reasons for not expecting to be with their current employer or business in 12 months' time



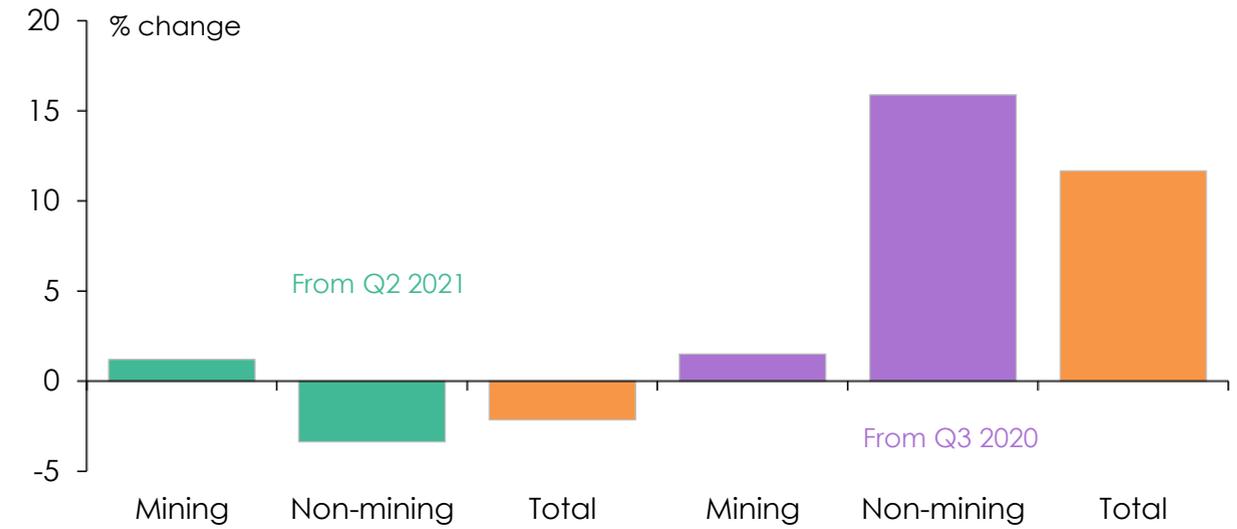
Note: 'other reasons' for not expecting to be with current employer or business in 12 months' time include employer closing or down-sizing; study, travel or family reasons; and the seasonal, casual or temporary characteristics of current employment. Source: ABS, [Labour Force, Australia, Detailed, Table 17](#), August 2021.

Business capex declined by 3.4% in Q3, after large increases in the three preceding quarters, mainly due to falls in NSW, Victoria and the ACT

Real business new fixed capital expenditure



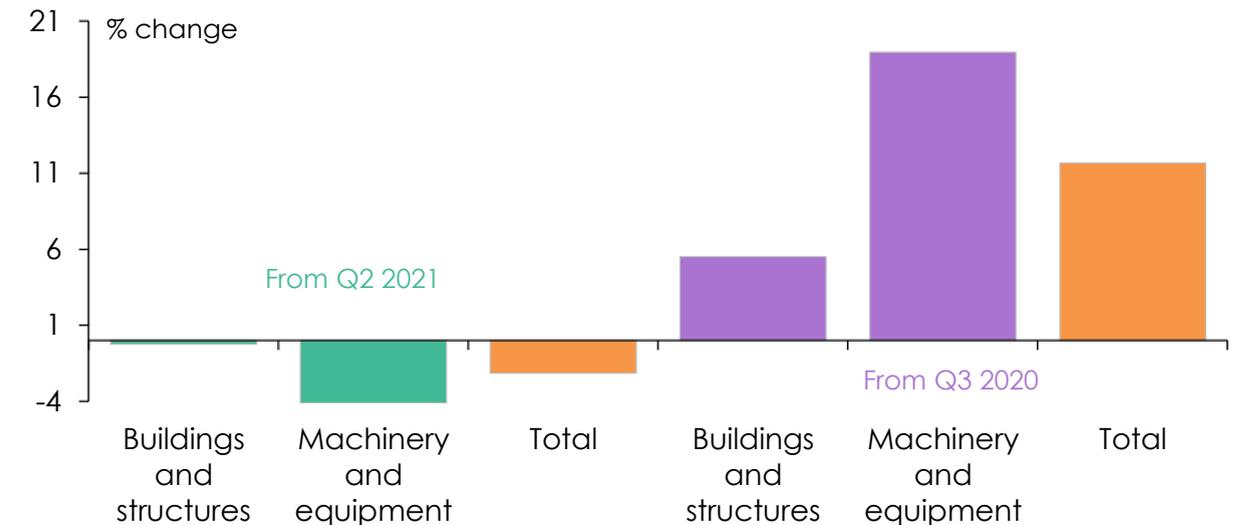
Real business new fixed capex, by industry, Q3



Real business new fixed capex, by state, Q3 2021



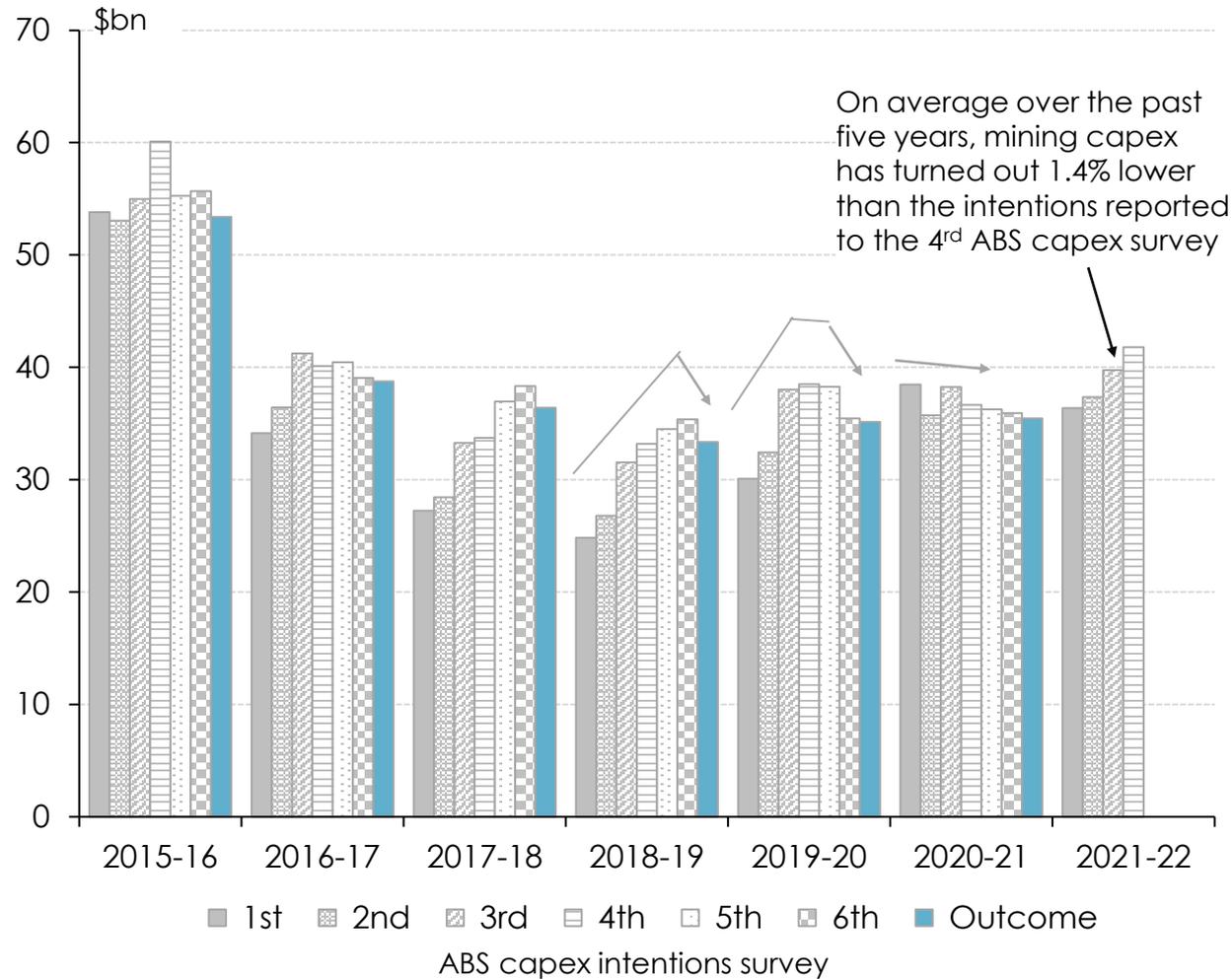
Real business new fixed capex, by asset, Q3



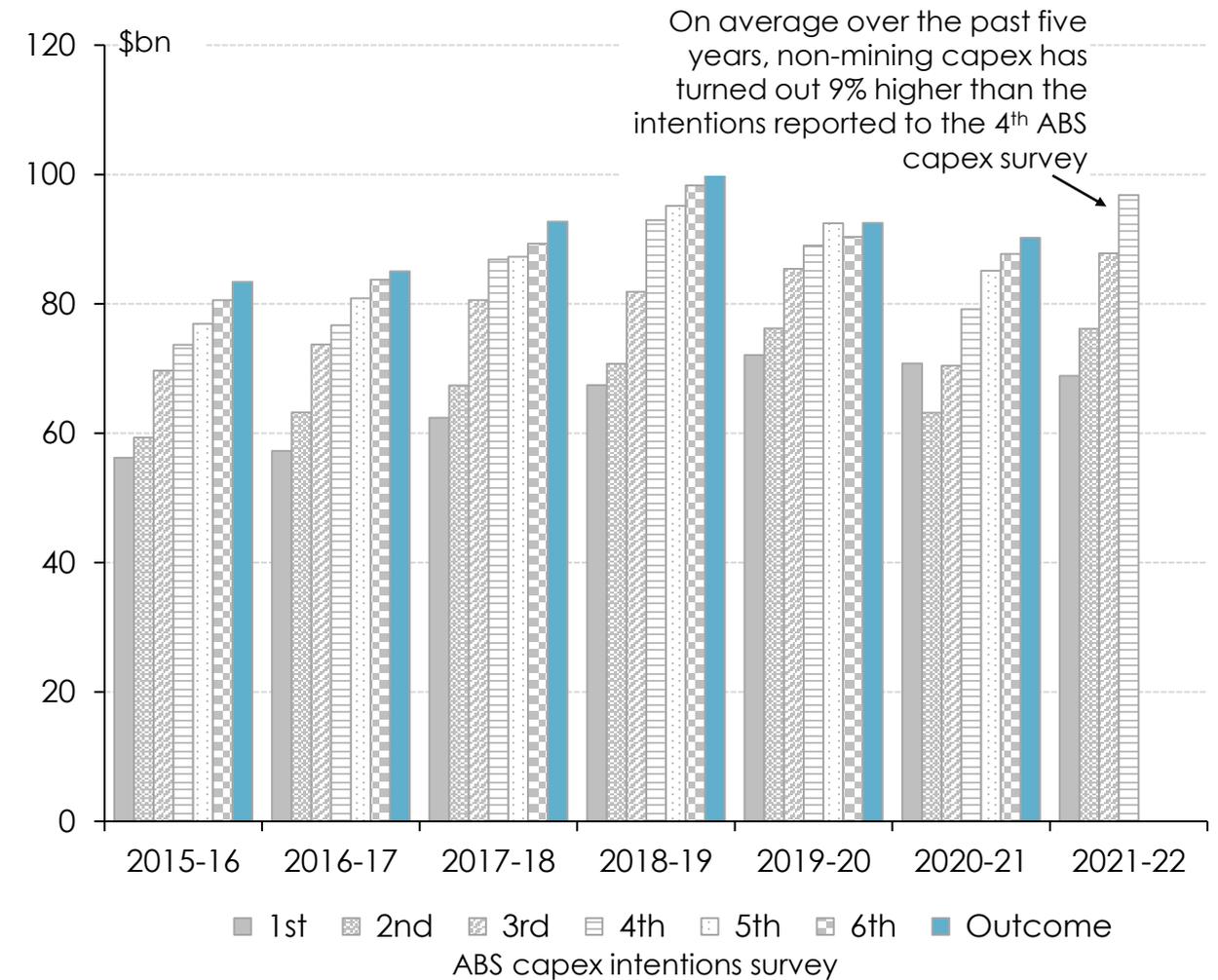
Note: the ABS Survey of New Capital Expenditure excludes the agriculture, forestry & fishing, and public administration & defence sectors, and superannuation funds.
 Source: ABS, [Private New Capital Expenditure and Expected Expenditure, Australia](#); December quarter data will be released on 24th February 2022. [Return to "What's New"](#).

However businesses have again revised up their capex intentions for 2021-22 which if realized as in recent years points to an increase of 16½%

Capital expenditure intentions - mining



Capital expenditure intentions – non-mining



Note: The ABS conducts six surveys of business' capital expenditure intentions in respect of each financial year. The first is conducted in January & February prior to the commencement of the financial year, the second in May & June, the third in July & August of the financial year, the fourth in October & November, the fifth in January & February of the financial year, and the sixth in May & June. The outcome (actual capital expenditure in the financial year) is determined from the survey taken in July & August after the end of the financial year. From the December quarter 2020 the survey includes the education & training, and health care & social assistance sectors. The estimates shown above are in nominal terms.

Source: ABS, [Private New Capital Expenditure and Expected Expenditure, Australia](#) (next update is released on 24th February 2022). [Return to "What's New"](#).

Consumer confidence rose 0.7 pc pt in November, after a 1.6 pc pt fall in October, and remains below where it was just before the recent lockdowns

Consumer confidence index



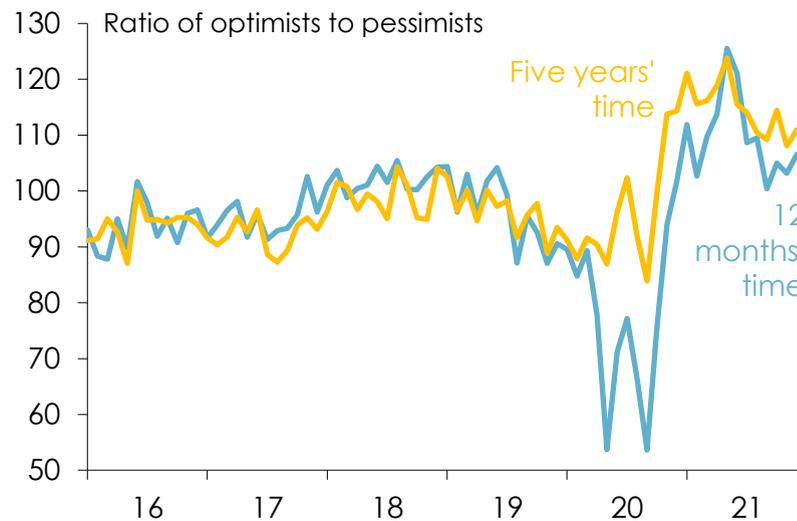
Household finances assessment



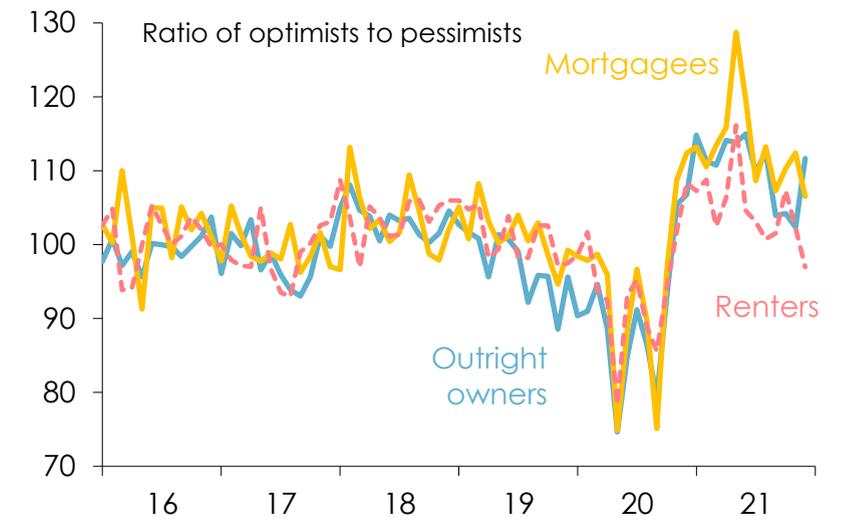
Buying conditions assessment



Economic conditions assessment

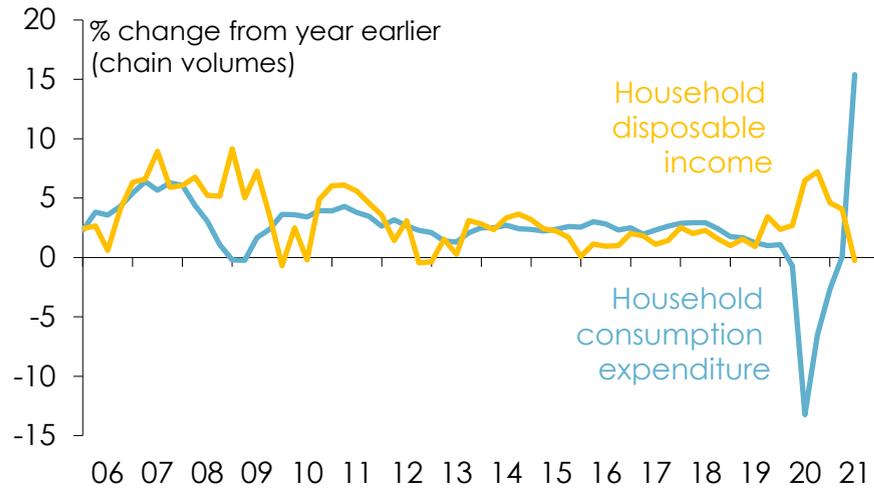


Confidence by housing tenure

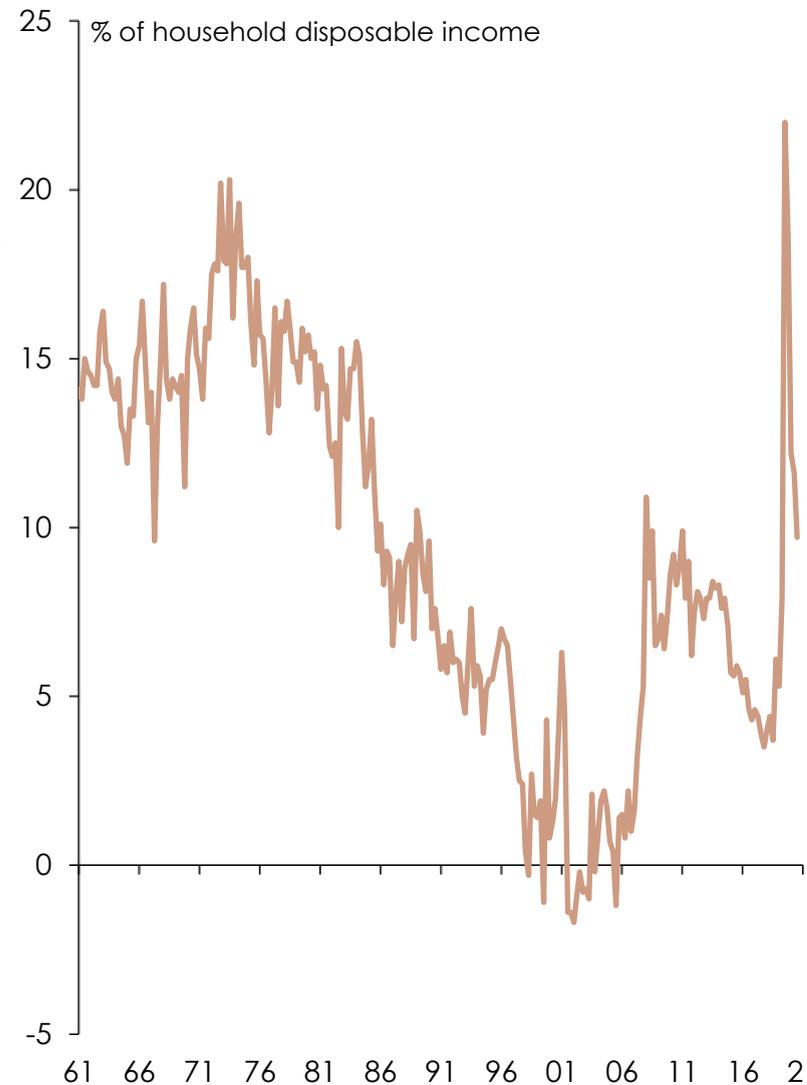


Household incomes have been supported by government payments, but spending has been curtailed, so households have lots of savings to spend

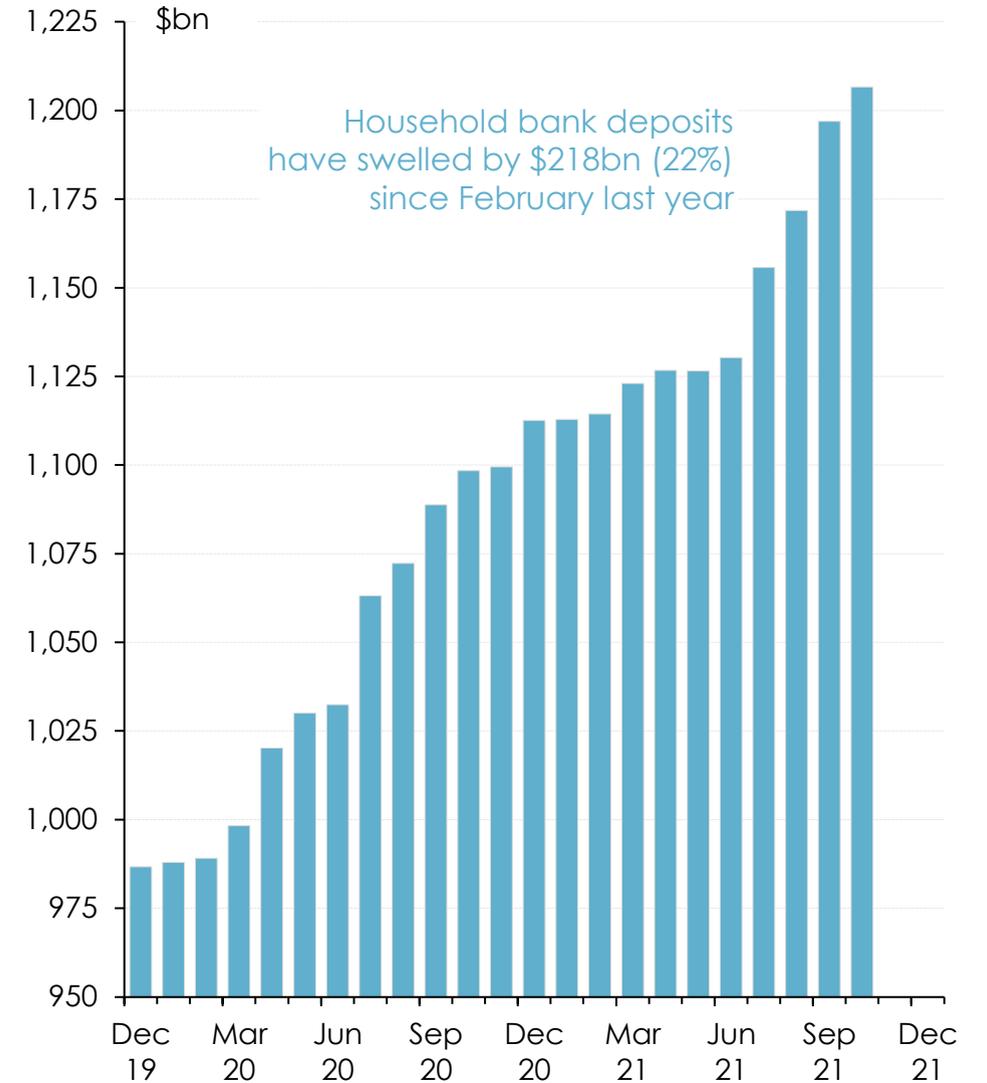
Household income and spending



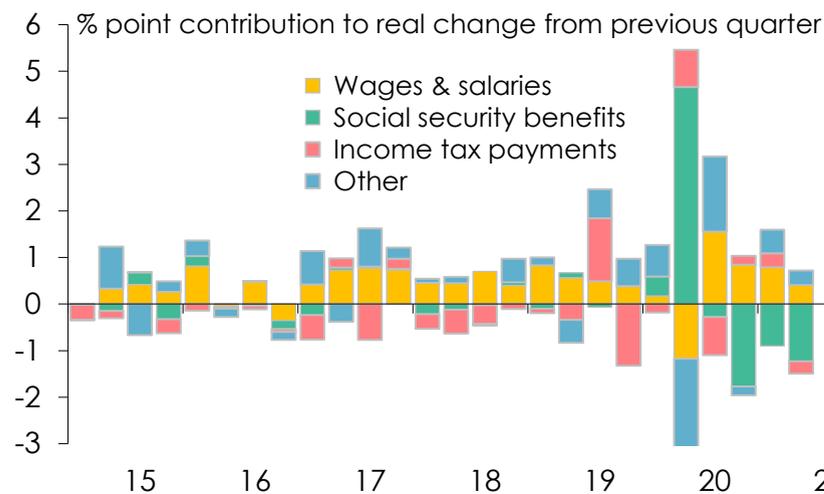
Household saving ratio



Household bank deposits



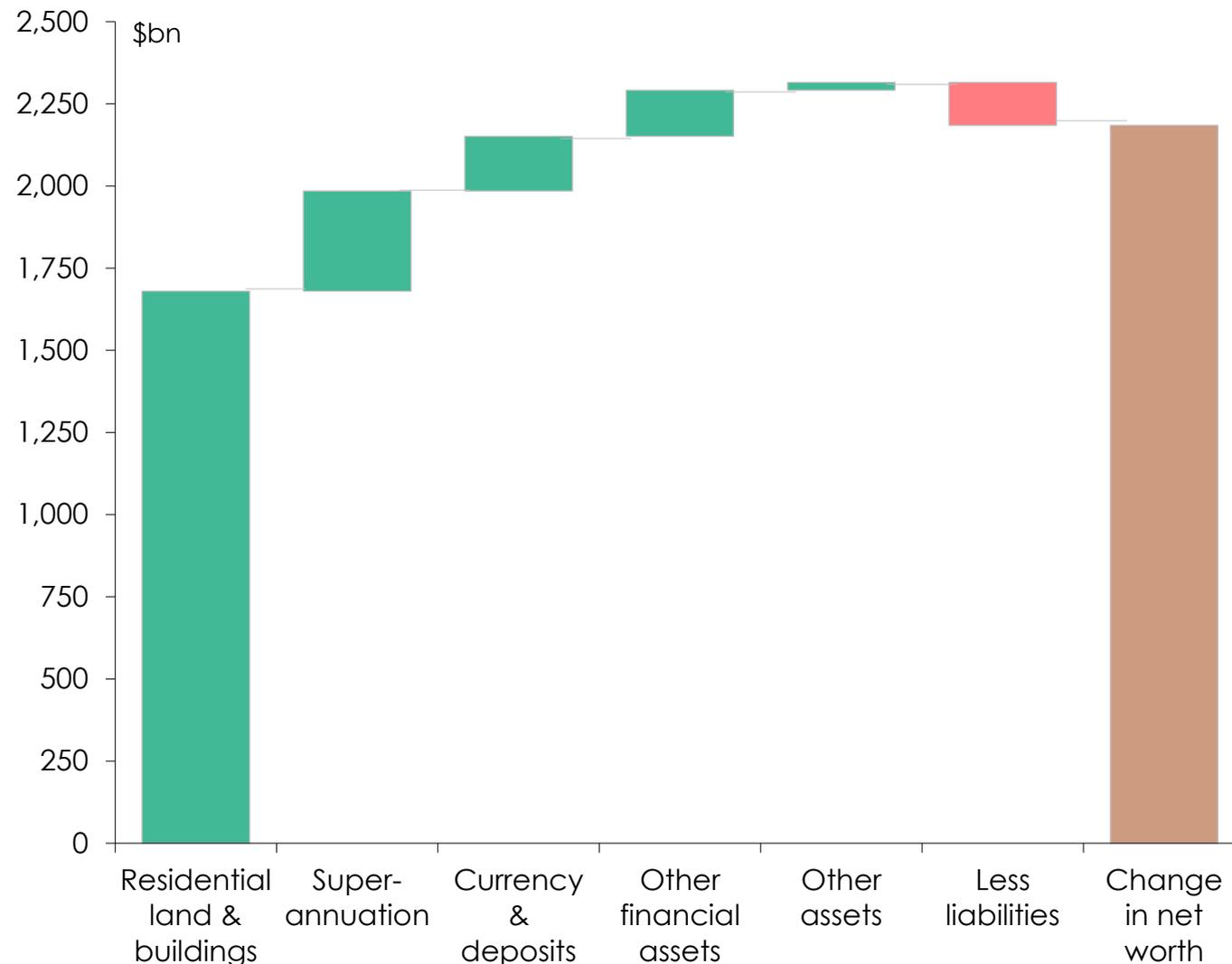
Sources of household income



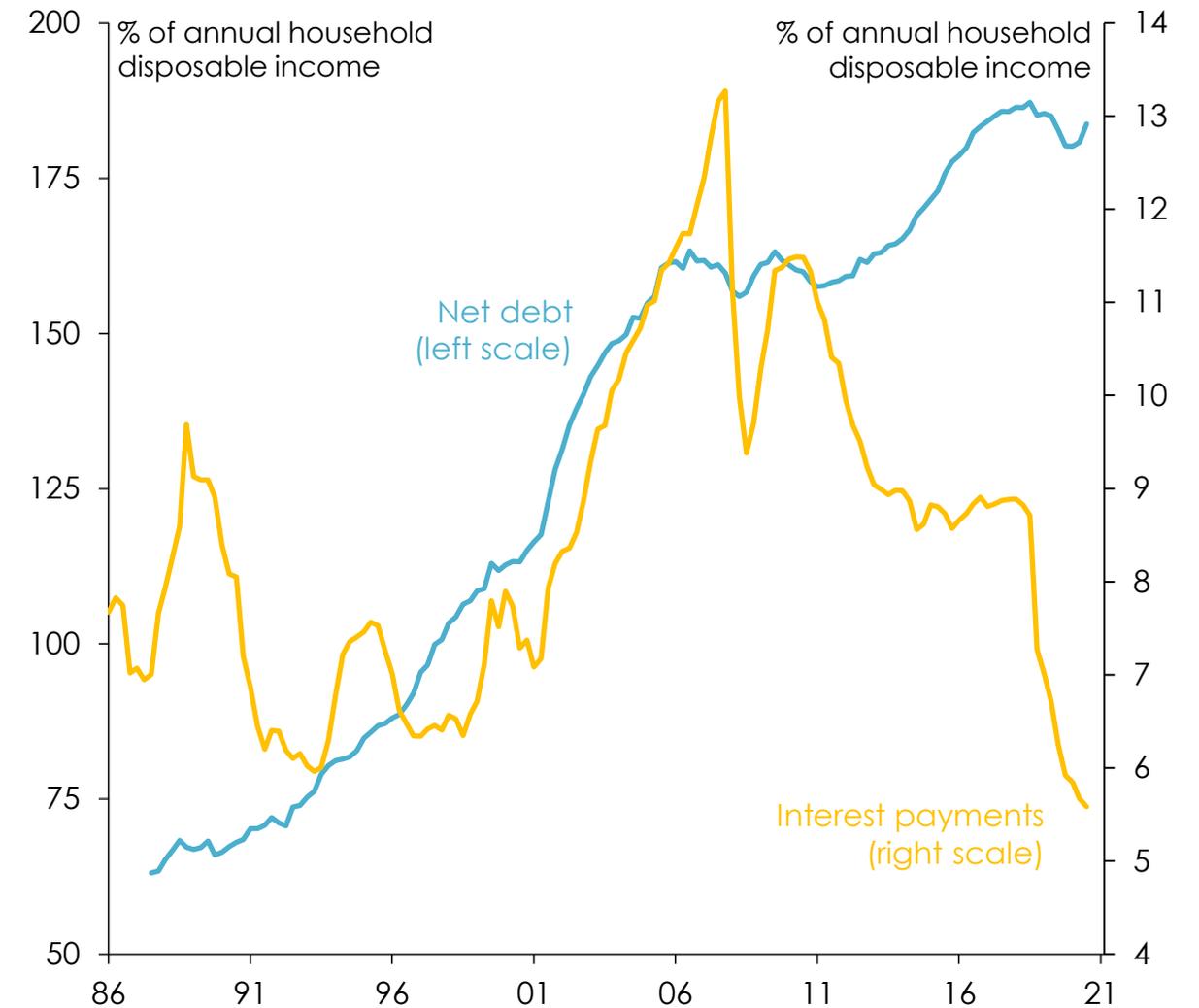
Sources: ABS, [Australian National Accounts: National Income, Expenditure and Product](#), March quarter 2021; Australian Prudential Regulation Authority, [Monthly Authorised Deposit-taking Institution Statistics](#). [Return to "What's New"](#).

Household net worth has risen by \$2.2trn (19½%) since the end of 2019, while debt service payments have fallen as a pc of income

Sources of gains in household net worth, Q4 2019 to Q2 2021



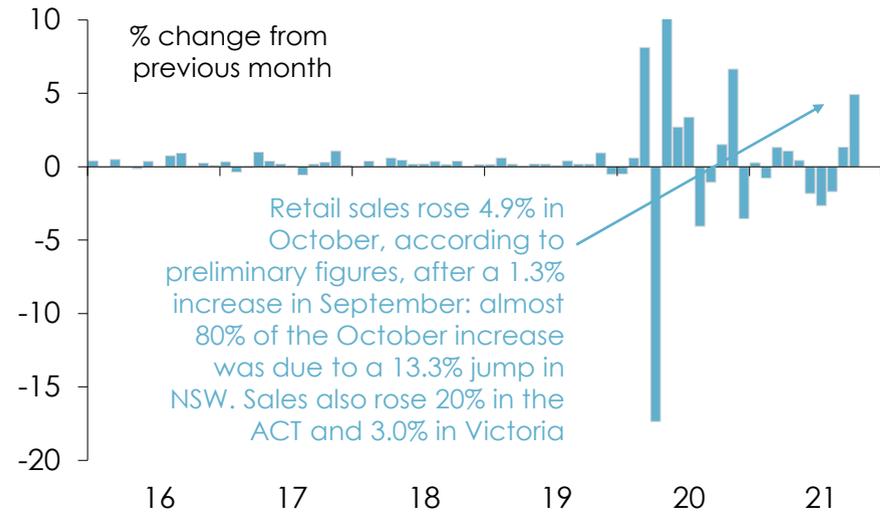
Household net debt and interest payments as a percentage of disposable income



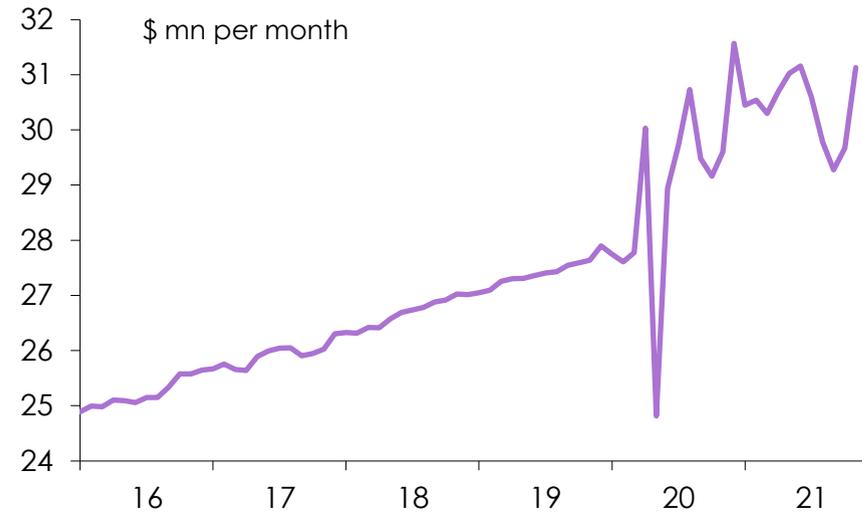
Sources: ABS, [Finance and Wealth Accounts](#), June quarter 2021; RBA, [Statistical Tables](#) E1 & E2. September quarter data will be released on 16th December. [Return to "What's New"](#).

Retail sales surged almost 5% in October, with four-fifths of that coming from a 13.3% surge in NSW as it came out of lockdown

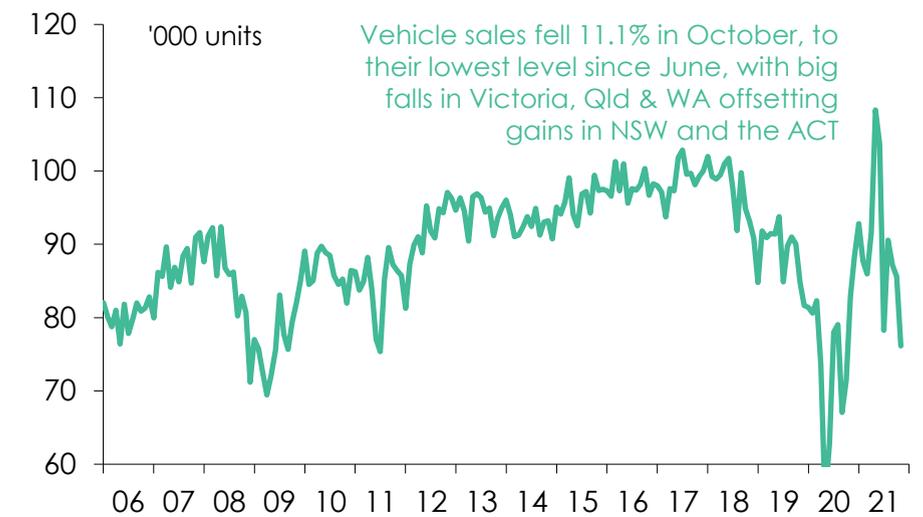
Monthly retail sales



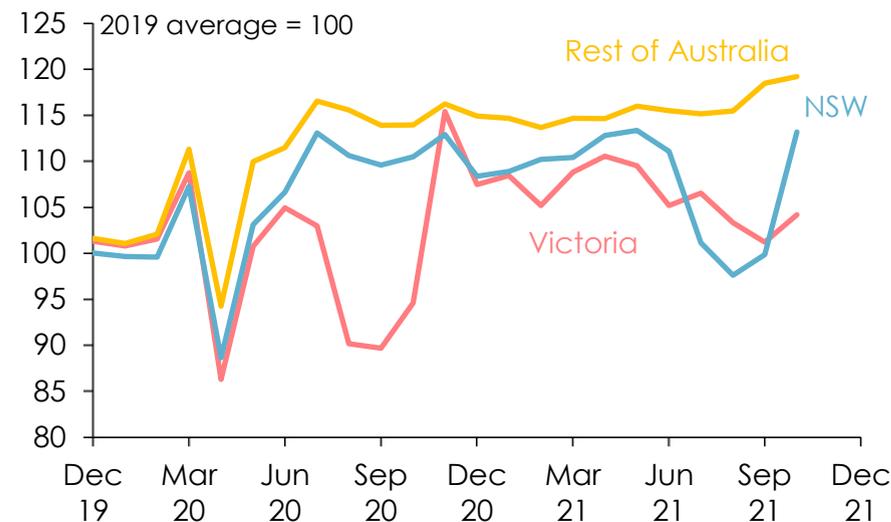
Level of retail sales



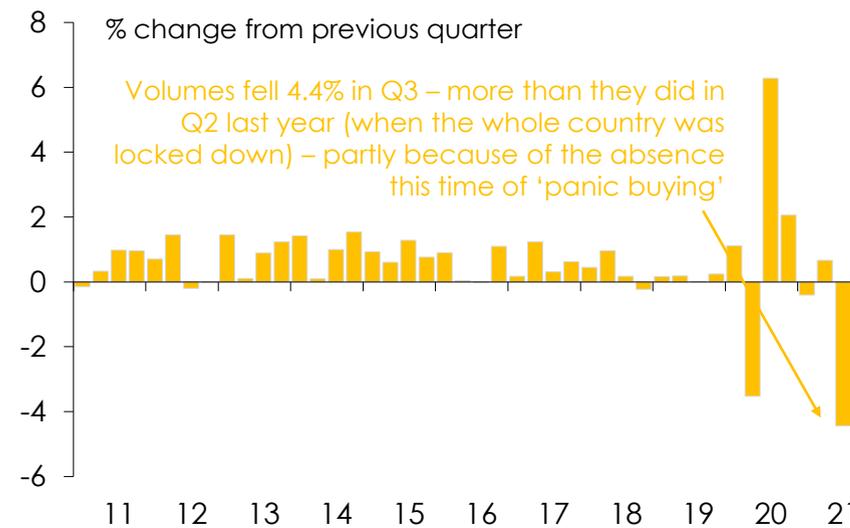
New motor vehicle sales



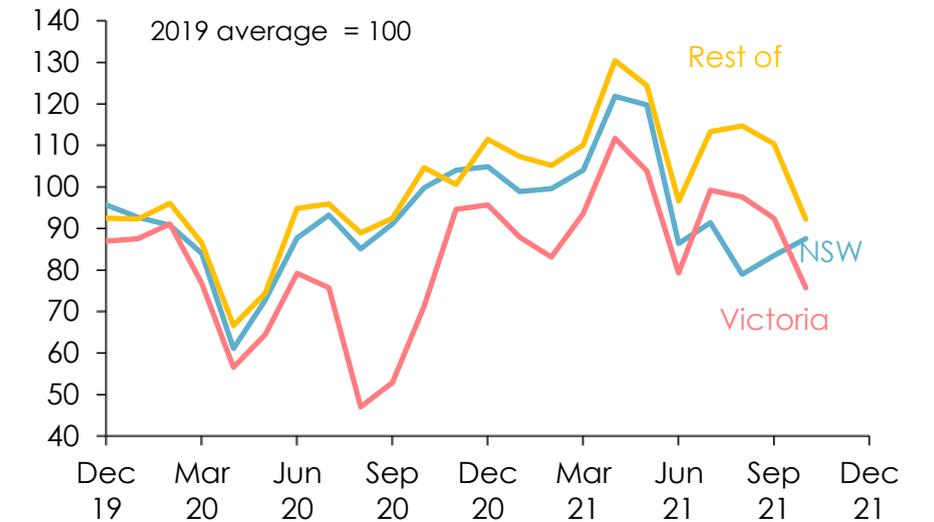
Retail sales – NSW, Vic & the rest



Quarterly retail sales volumes



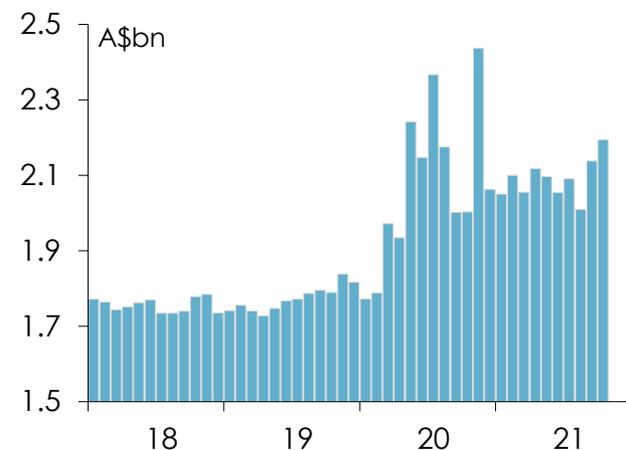
Vehicle sales – NSW, Vic & the rest



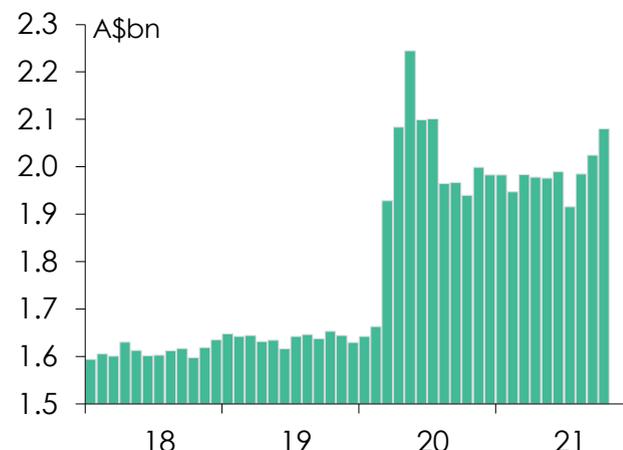
Note: see also [slide 110](#) for more detail on the composition of retail sales since the onset of the pandemic. Sources: ABS, [Retail Trade, Australia](#); Federal Chamber of Automotive Industries [VFACTS](#) (seasonal adjustment of FCAI data by Corinna). November retail sales data will be released on 11th January 2022; November motor vehicle sales data will be released in the second week of December. [Return to "What's New"](#).

Australians have splurged on durable goods – and on alcohol! – to make up for not being allowed to spend on services (including overseas travel)

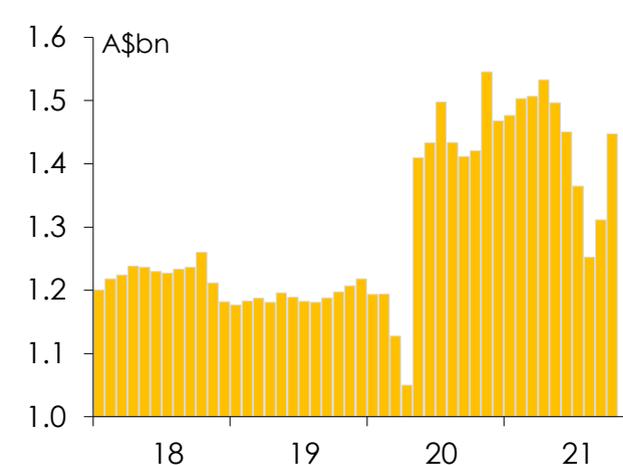
Electronic & electrical goods



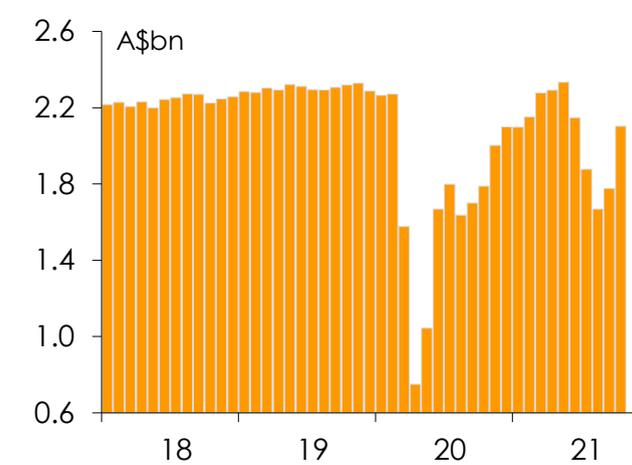
Hardware, building & garden supplies



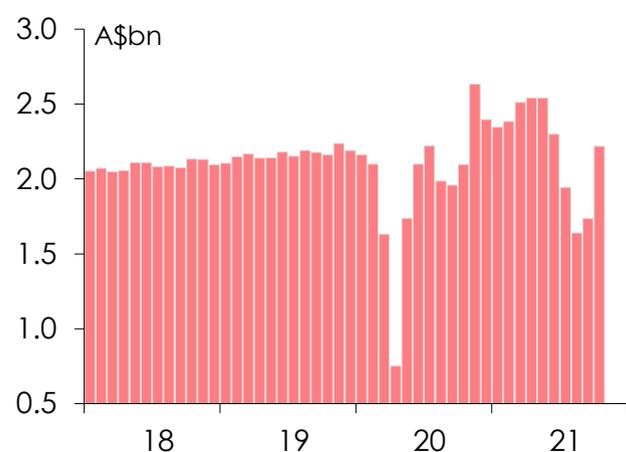
Floor coverings, furniture, housewares etc



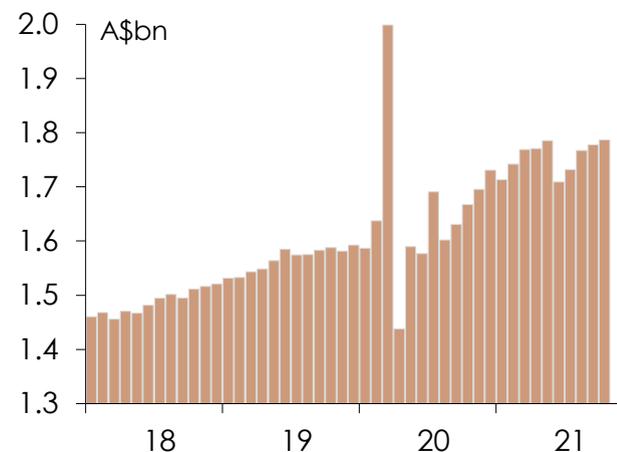
Cafes and restaurants



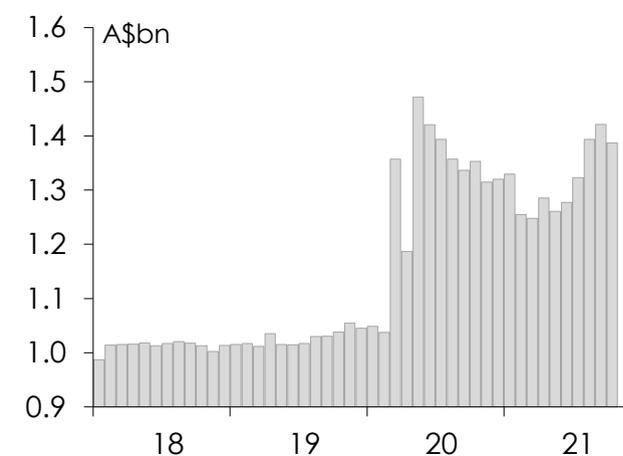
Clothing, footwear & personal accessories



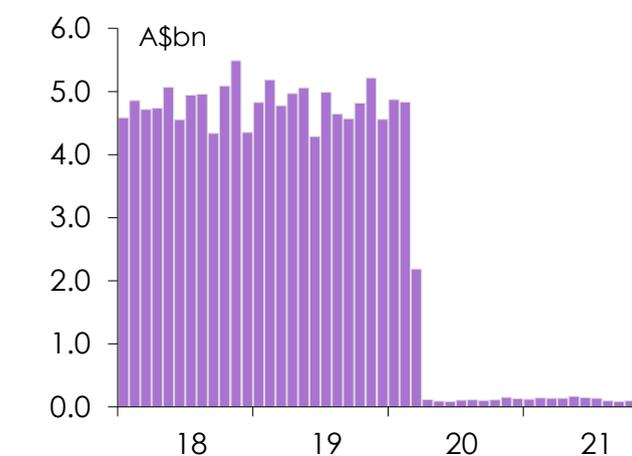
Pharmaceuticals, cosmetics & toiletries



Alcoholic beverages



Overseas travel



Sources: ABS, [Retail Trade, Australia](#), October 2021 (November data will be released on 11th January 2022); and [International Trade in Goods and Services, Australia](#), September 2021. [Return to "What's New"](#).

The most recent lockdowns have prompted a renewed surge in online spending and accelerated trends away from the use of cash

Growth in online retail sales



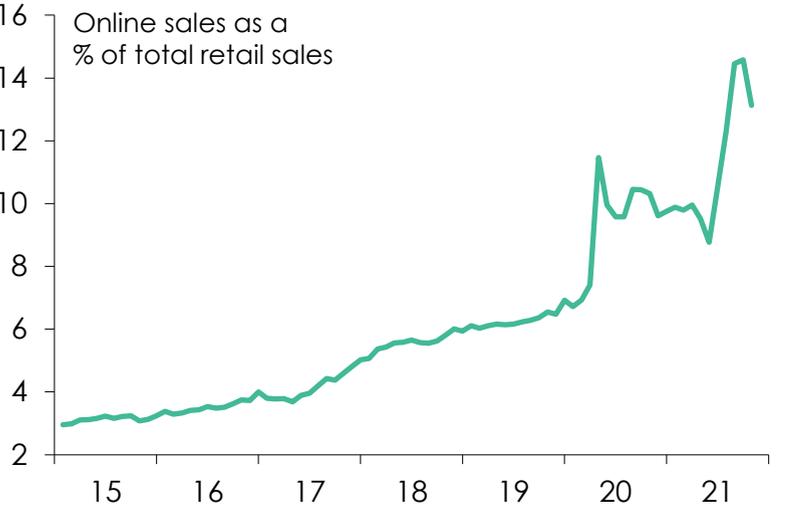
ATM cash withdrawals



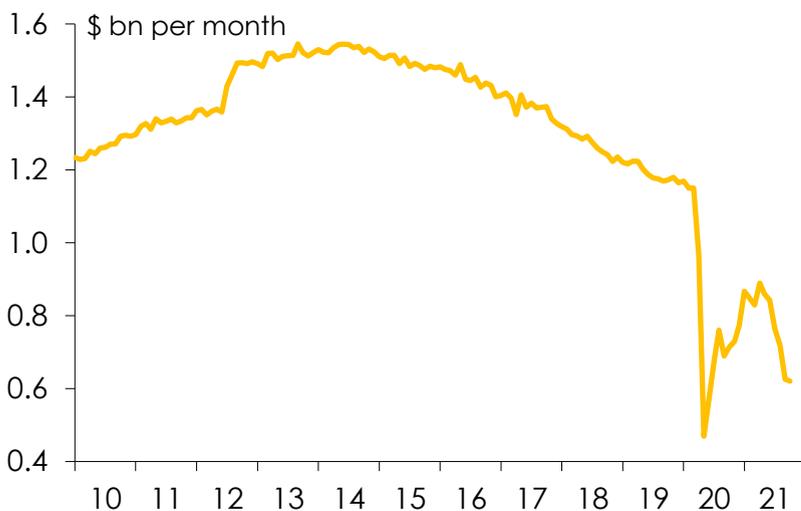
Credit card cash advances



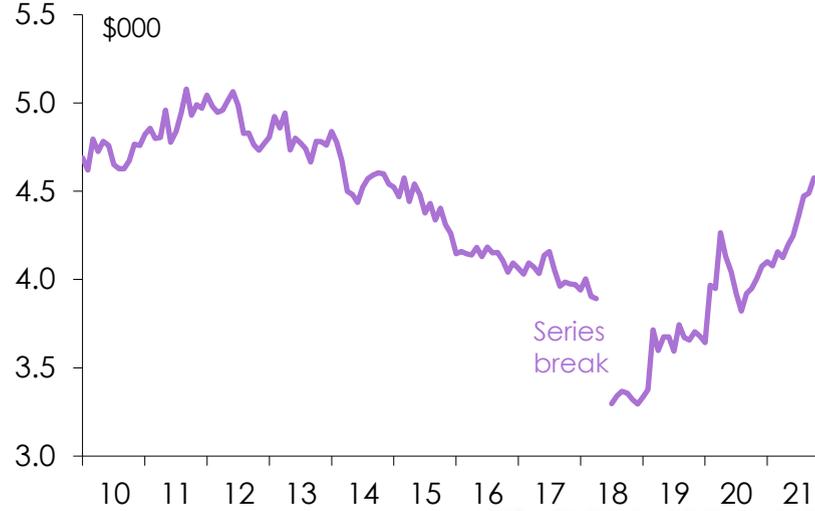
Online retail 'market share'



Debit card cash-outs



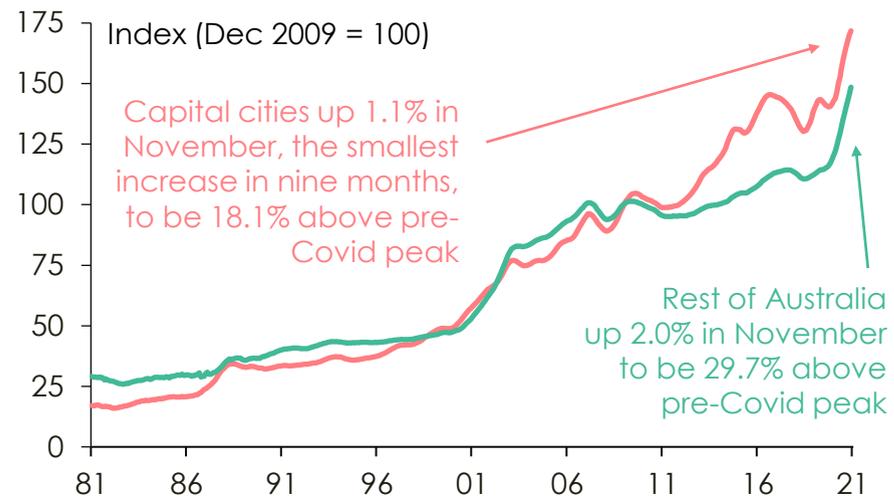
Direct entry payments



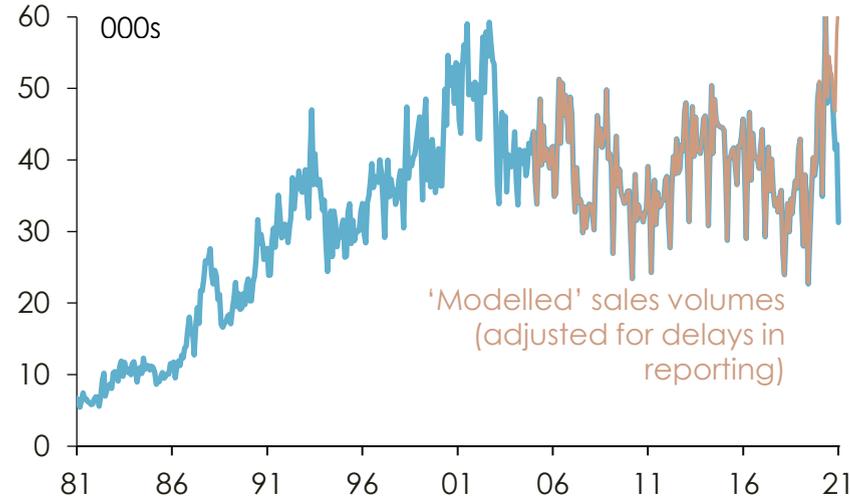
Sources: ABS, [Retail Trade, Australia](#); RBA, [Statistical Tables](#), C1, C2, C4 and C6. Latest online retail sales data are for October (November data will be published on 11th January 2022; while latest payments system data are for September (October data will be released on 8th December). [Return to "What's New"](#).

Property price momentum is gradually slowing, with prices up 1.1% in November, the smallest monthly increase since January

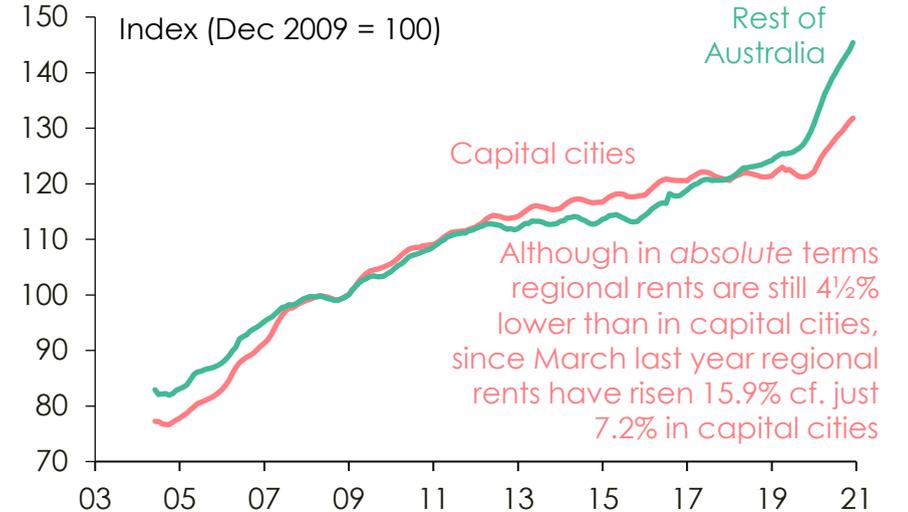
Residential property prices



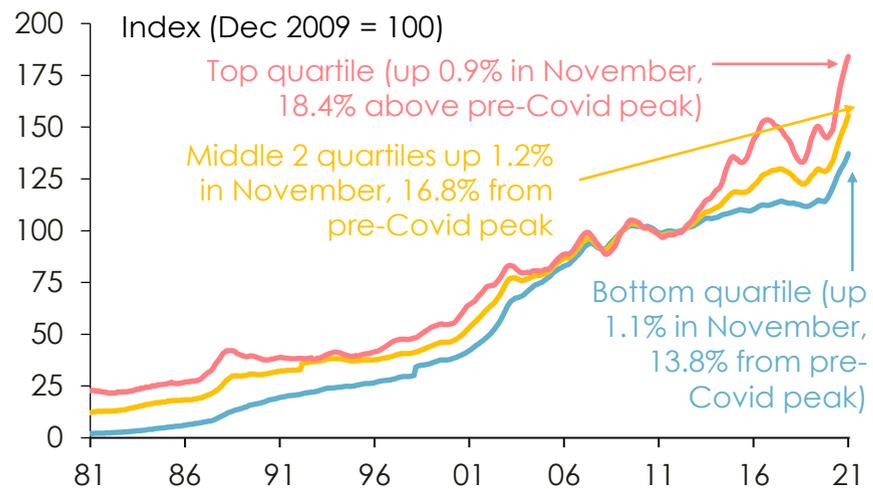
Residential property sales volumes



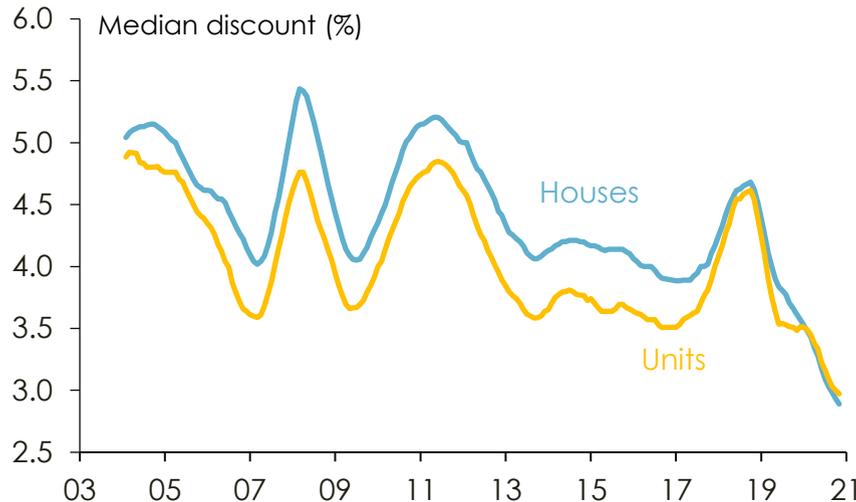
Residential rents



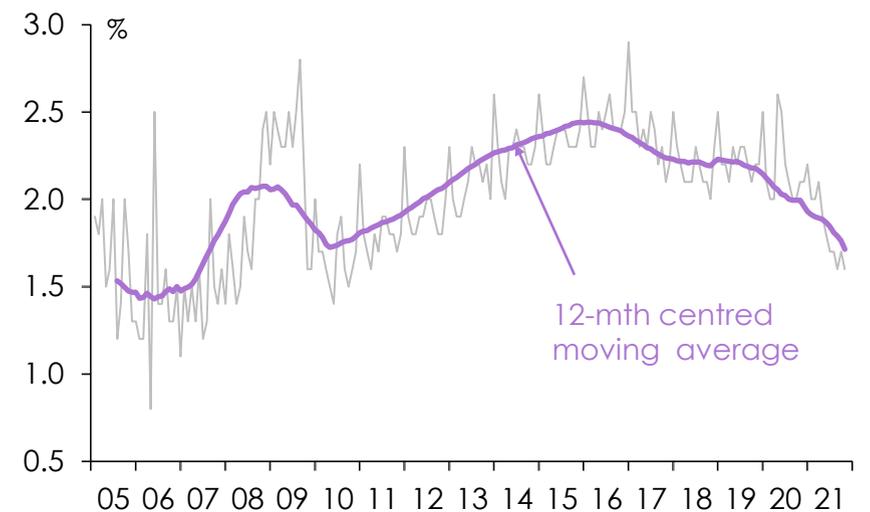
Property prices by tier



Vendor discounting



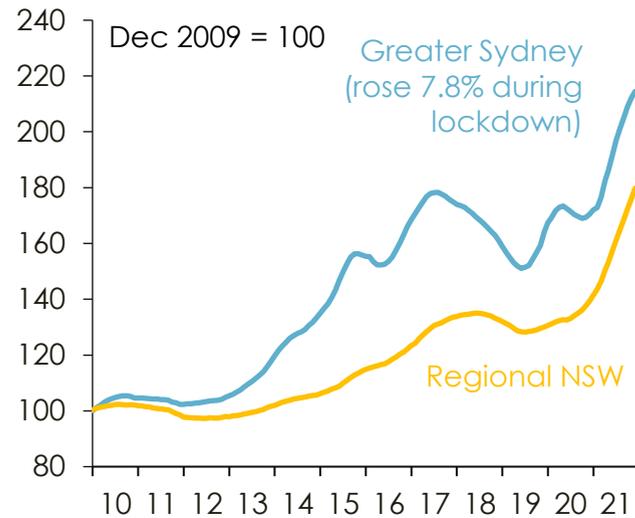
Capital city rental vacancy rates



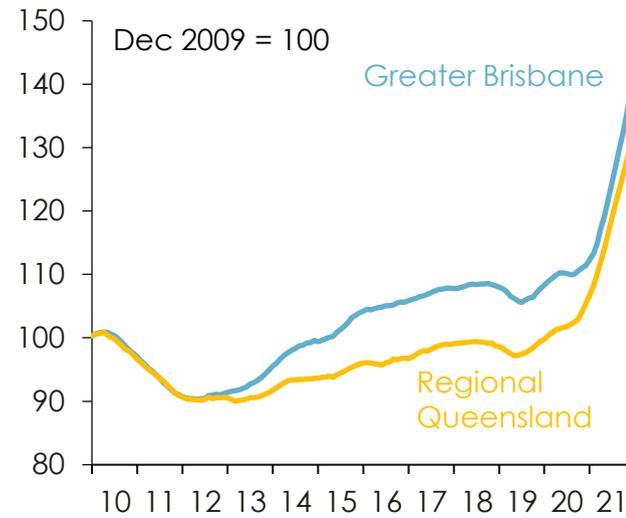
Note: The index of property prices measures the 'organic' change in underlying sales values by using a hedonic regression methodology that takes account of changes in the characteristics of properties being sold from month to month. Property price data shown here are seasonally adjusted. The index of residential rents uses a similar methodology to measure the 'organic' change in underlying rents. The 'modelled' sales volume estimates seek to account for delays in receiving information on transactions that have yet to settle (which can be more than six weeks after the contract date). Latest data are for November (except for vacancy rates which is October). December prices, sales volumes and rents data will be released on 4th January 2022. Sources: [CoreLogic](#); [SQM Research](#). [Return to "What's New"](#).

Prices in Adelaide, Canberra and Hobart, and regional NSW, Victoria, Qld and Tasmania are all more than 20% above their pre-pandemic peaks

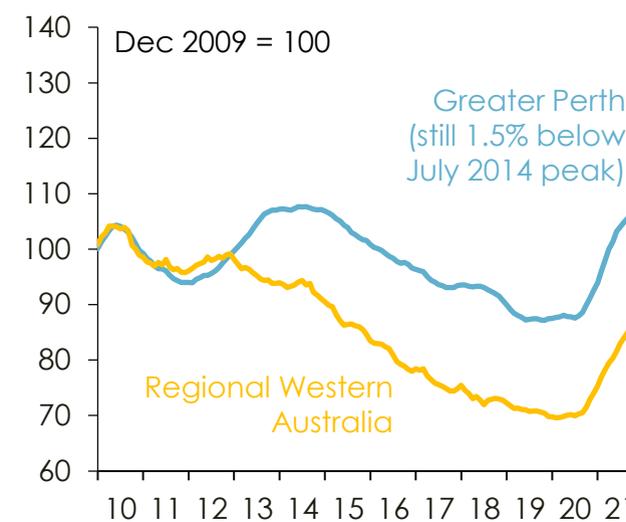
New South Wales



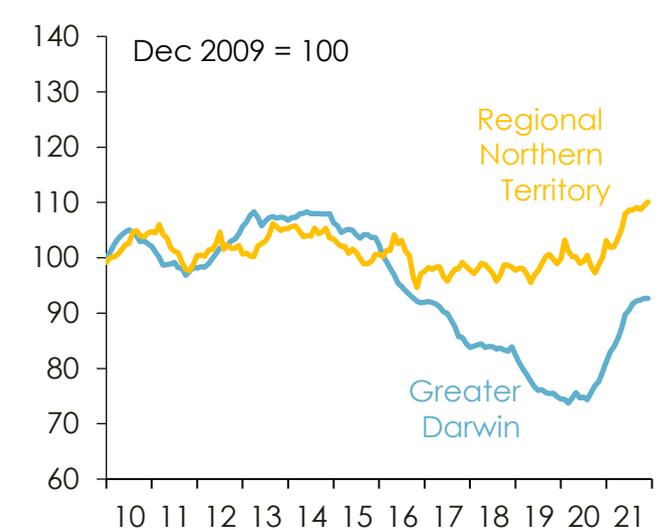
Queensland



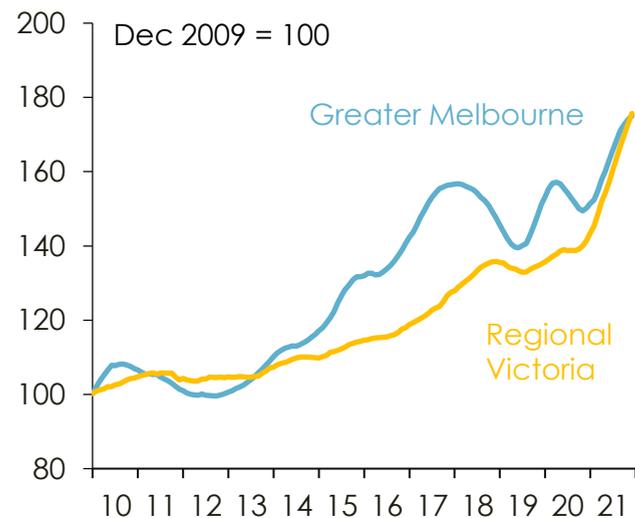
Western Australia



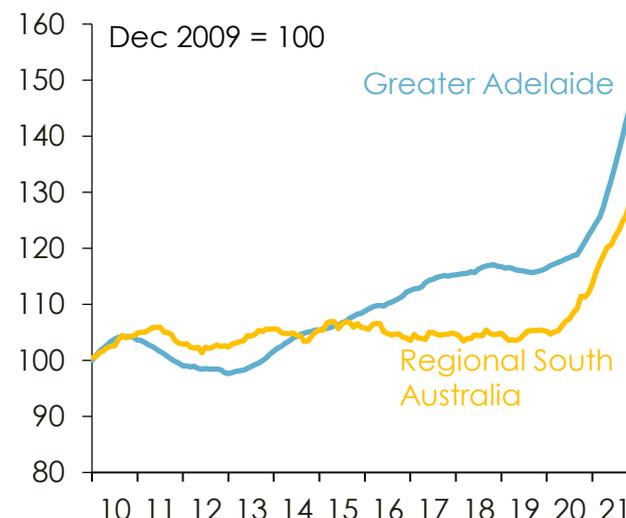
Northern Territory



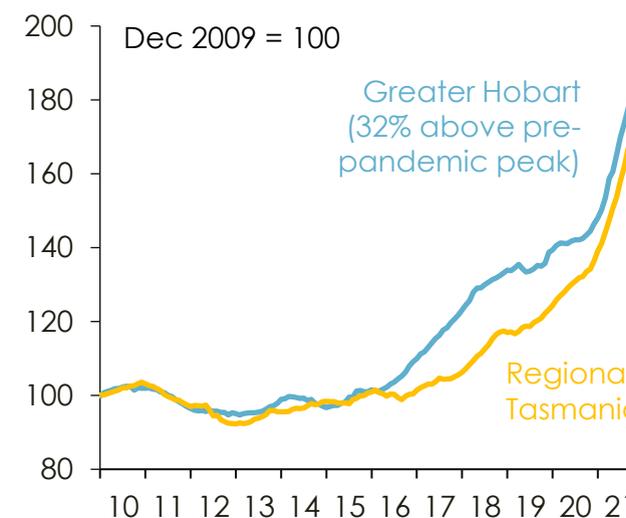
Victoria



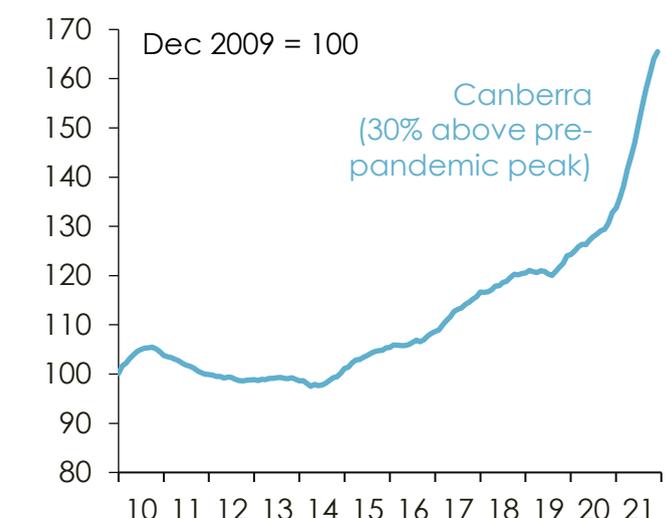
South Australia



Tasmania



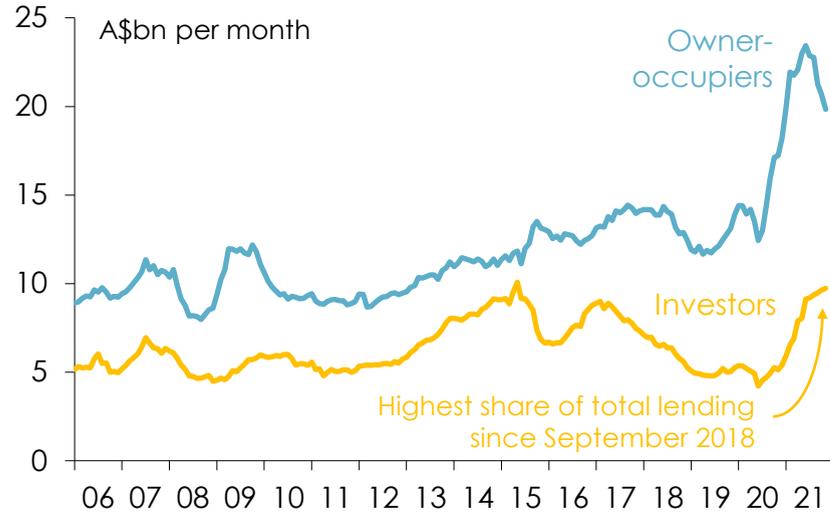
Australian Capital Territory



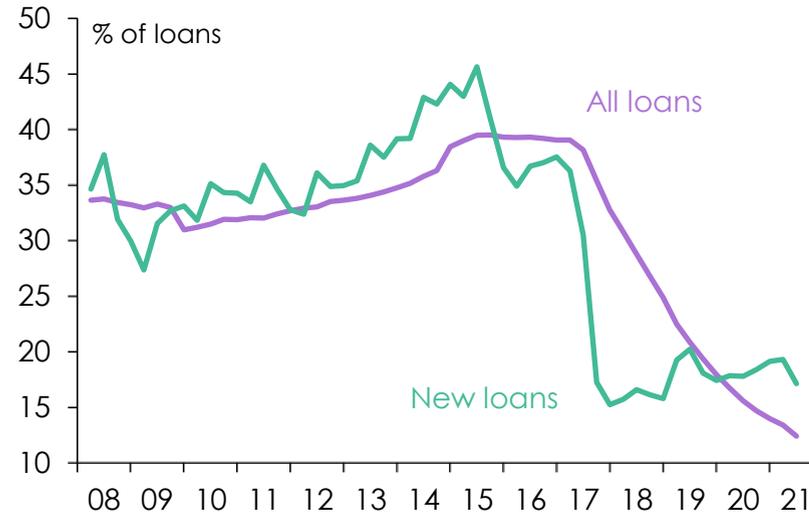
Note: The index of property prices measures the 'organic' change in underlying sales values by using a hedonic regression methodology that takes account of changes in the characteristics of properties being sold from month to month. Property price data are seasonally adjusted. Latest data are November; December data will be released on 4th January 2022. Source: [CoreLogic](#). Return to "What's New".

Lending to property investors and to existing home-owners 'trading up' has risen sharply in recent months while FHBs are again being 'squeezed out'

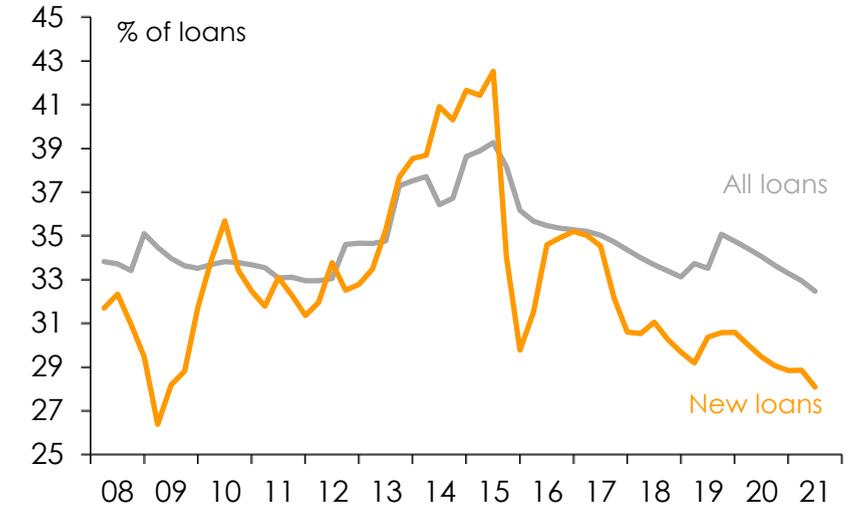
Housing finance commitments



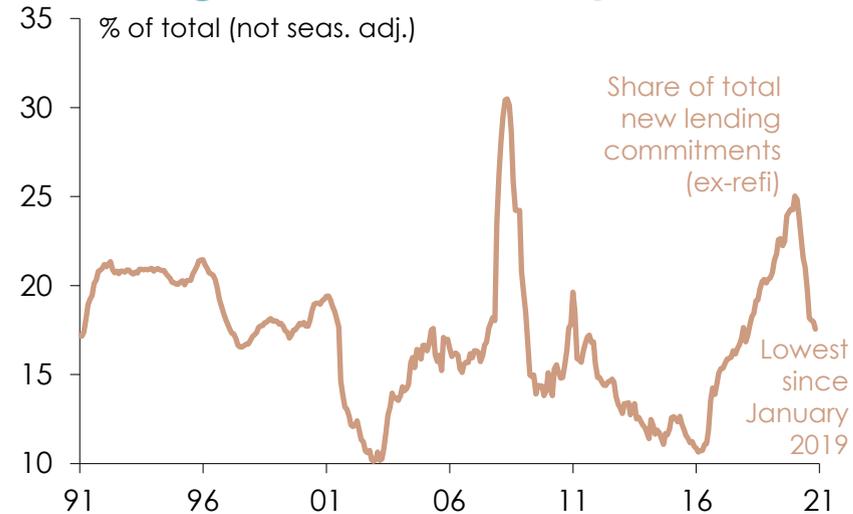
Interest-only loans as pc of total



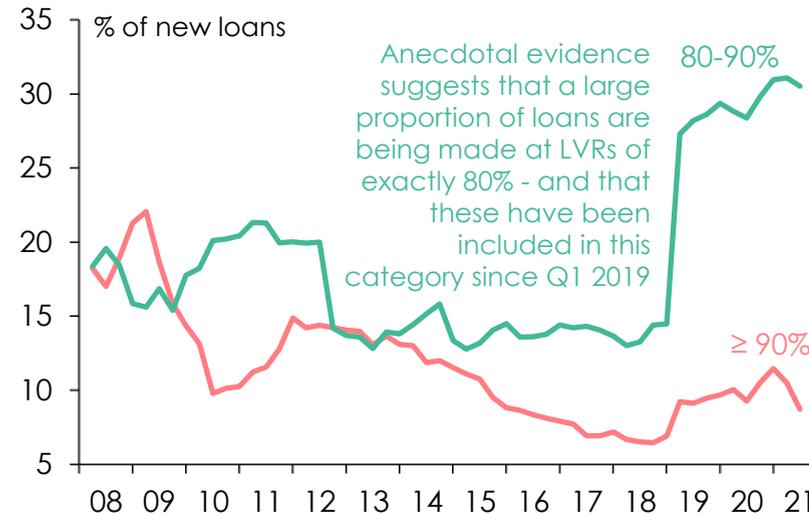
Loans to investors as a pc of total



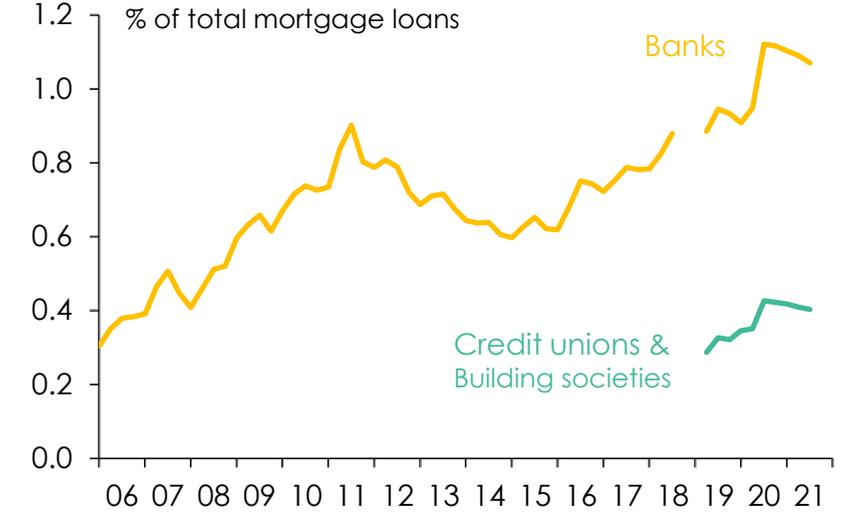
Lending to first home buyers



High LVR loans as a pc of total



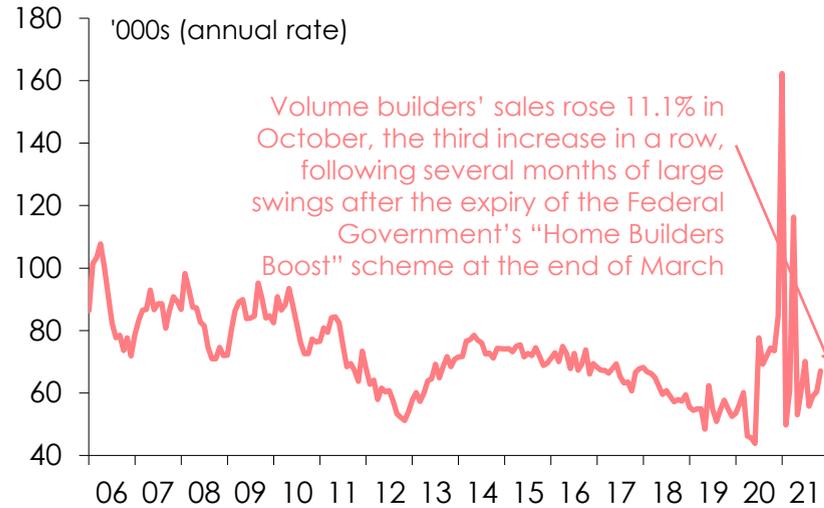
Non-performing mortgage loans



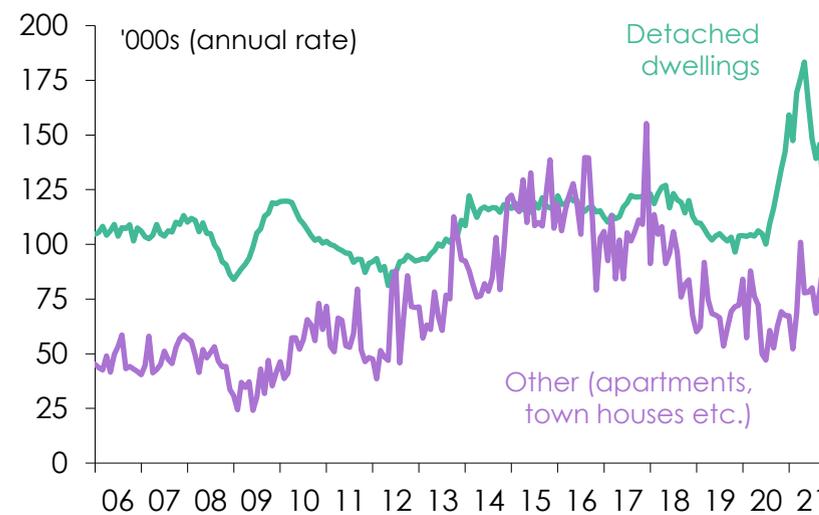
Sources: ABS, [Lending Indicators](#); Australian Prudential Regulation Authority (APRA), [Quarterly authorised deposit-taking institution statistics](#). November housing finance data will be released on 14th January 2022; December; APRA data on ADI property exposures for the September quarter will be released on 7th December. [Return to "What's New"](#).

Residential building approvals fell 13% in October, to their lowest level since August last year, with multi-unit approvals falling by 38%

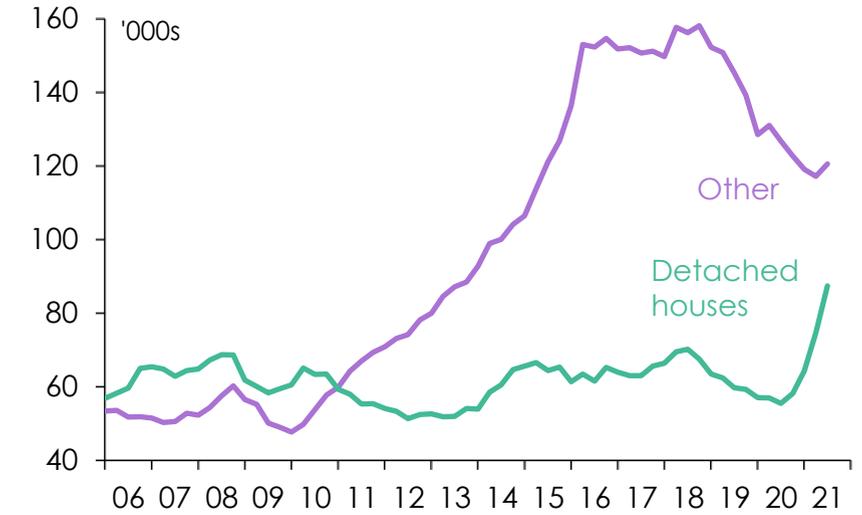
Large builders' new home sales



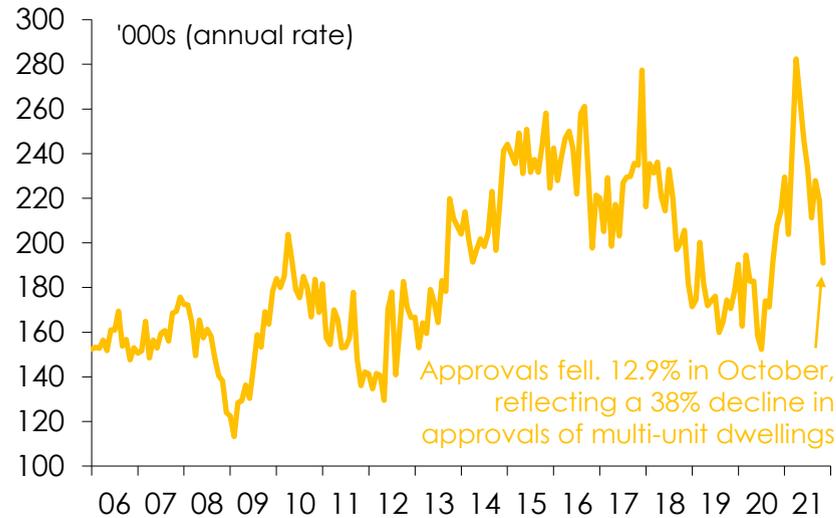
Building approvals, by type



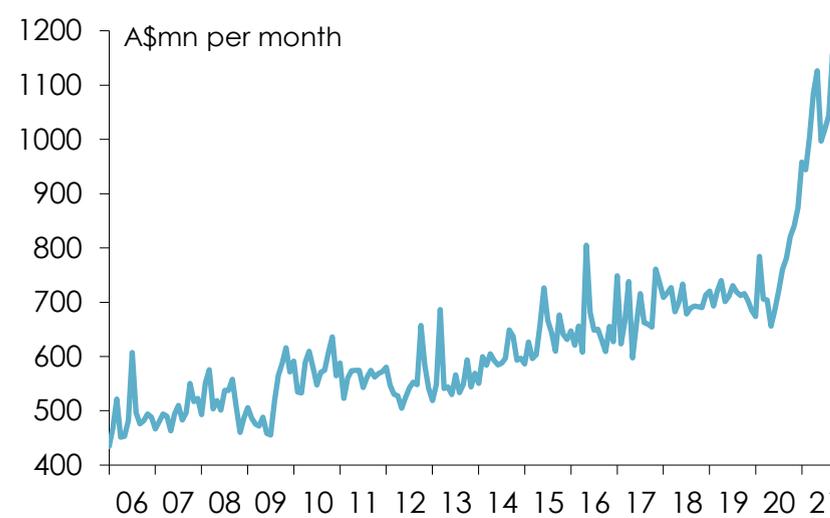
Dwellings under construction



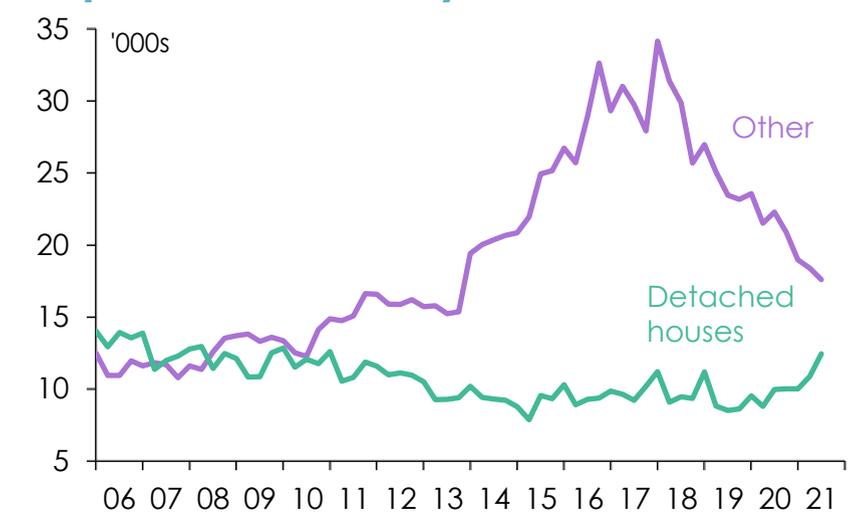
Residential building approvals



Alterations & additions approved



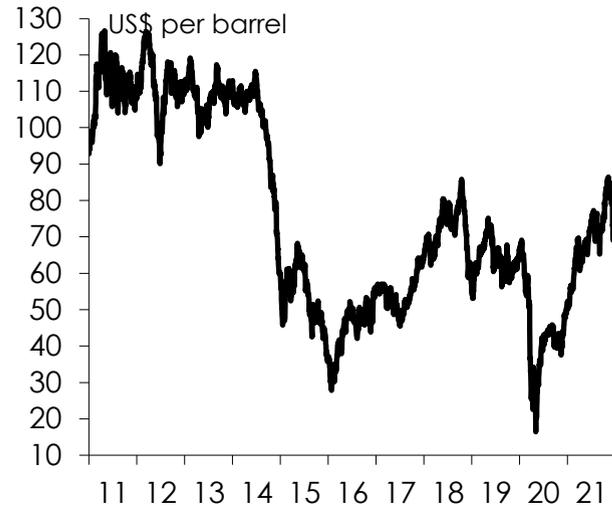
'Pipeline' of work yet to be started



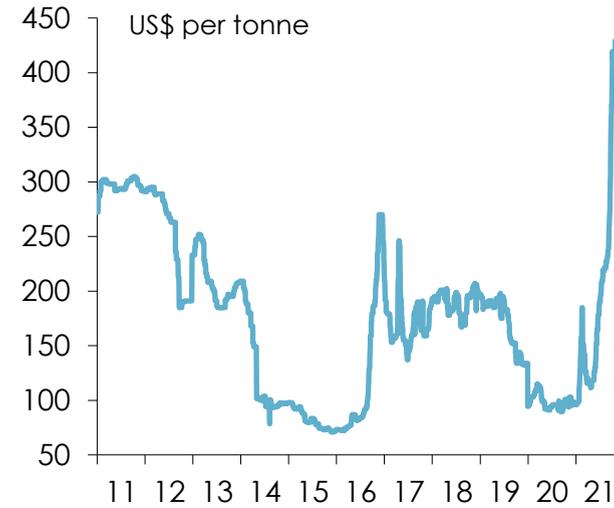
Note: 'New home sales' are of detached dwellings only and exclude small-scale builders. Sources: ABS, [Building Approvals](#); Housing Industry Association. November building approvals data will be released on 10th January 2022; September quarter dwellings under construction and 'pipeline' data on 19th January. [Return to "What's New"](#).

Oil prices fell 4% this week (on 'omicron' fears), iron ore prices rose a little further while coal prices were steady and base metals little changed

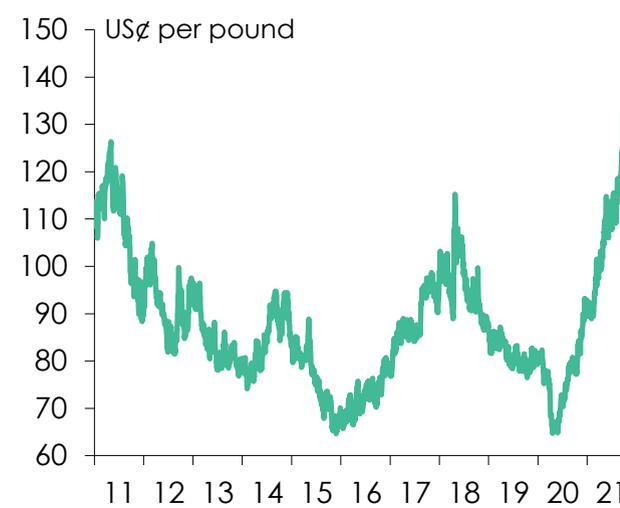
Brent crude oil



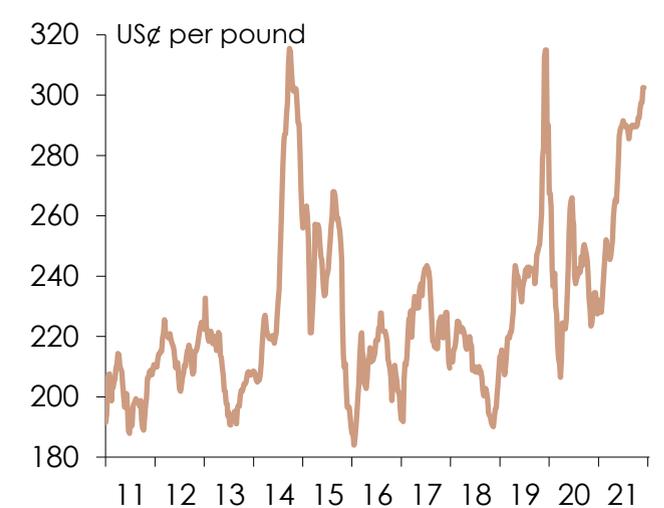
Metallurgical coal



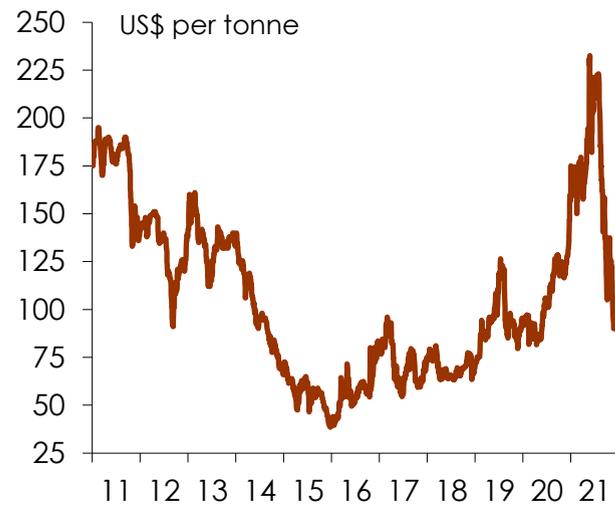
Aluminium



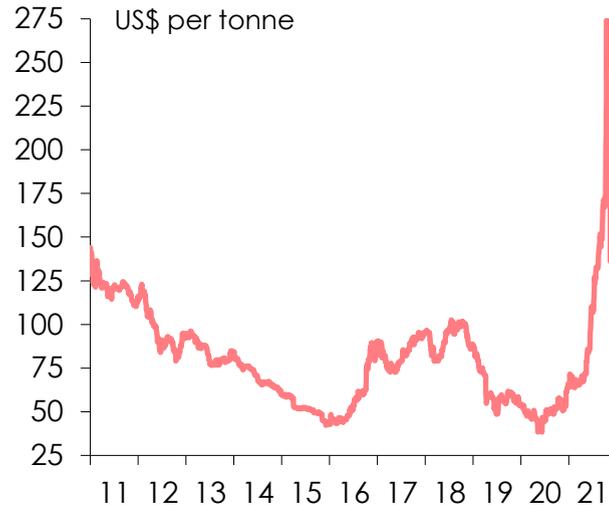
Beef



Iron ore



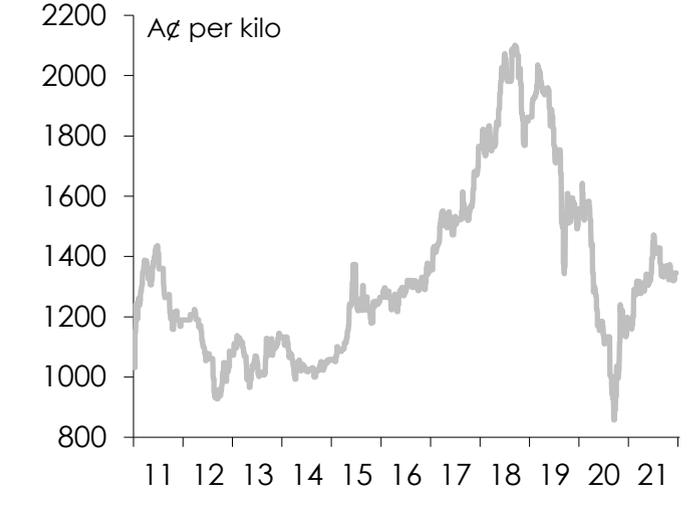
Thermal coal



Gold

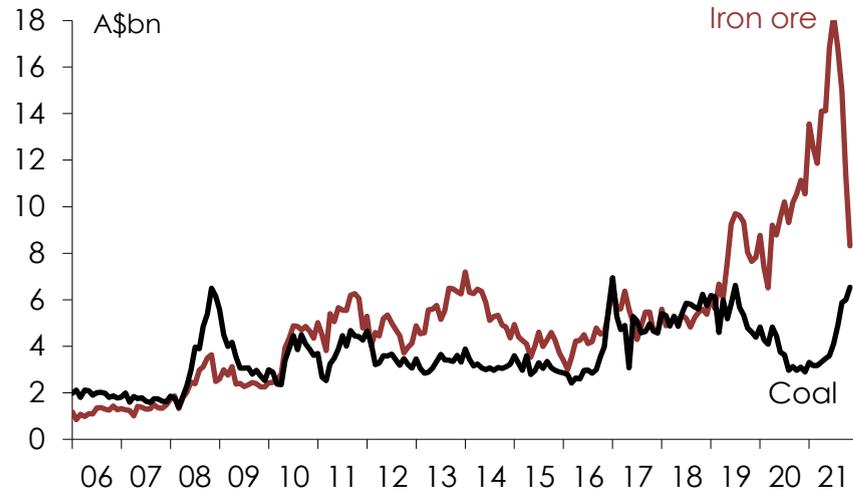


Wool



Australia's trade surplus narrowed by \$600mn, to \$11.2bn, in October, with exports down 3.3% (largely due to iron ore prices) and imports down 2.7%

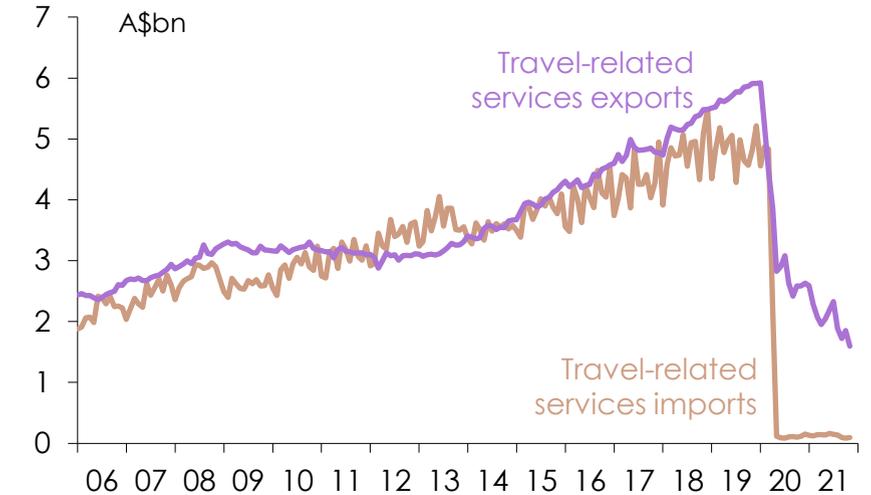
Iron ore and coal exports



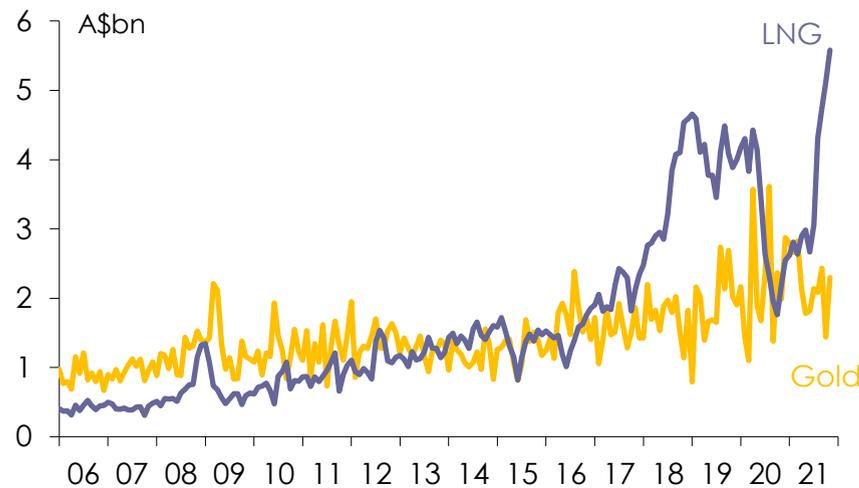
Merchandise exports and imports



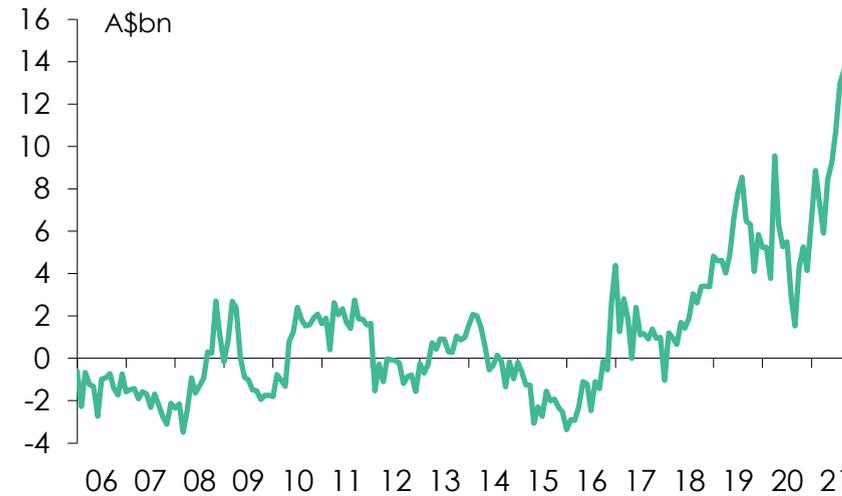
Tourism-related services trade



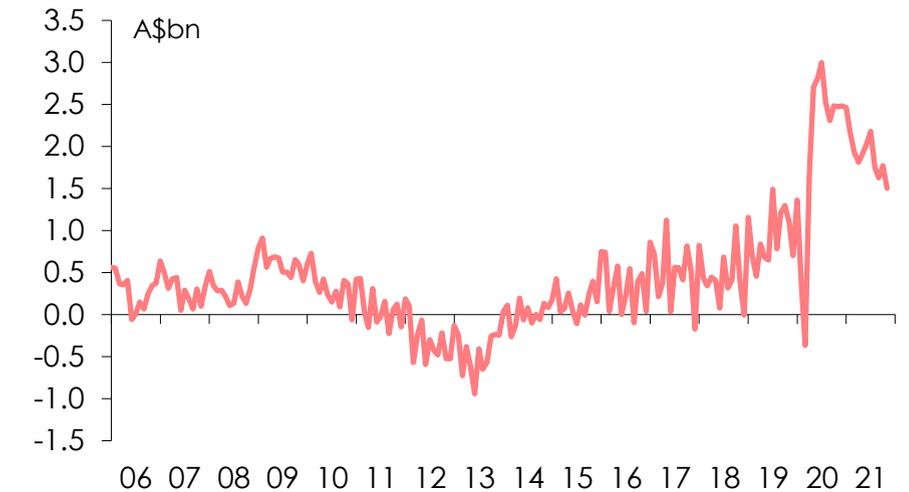
LNG and gold exports



Merchandise trade balance



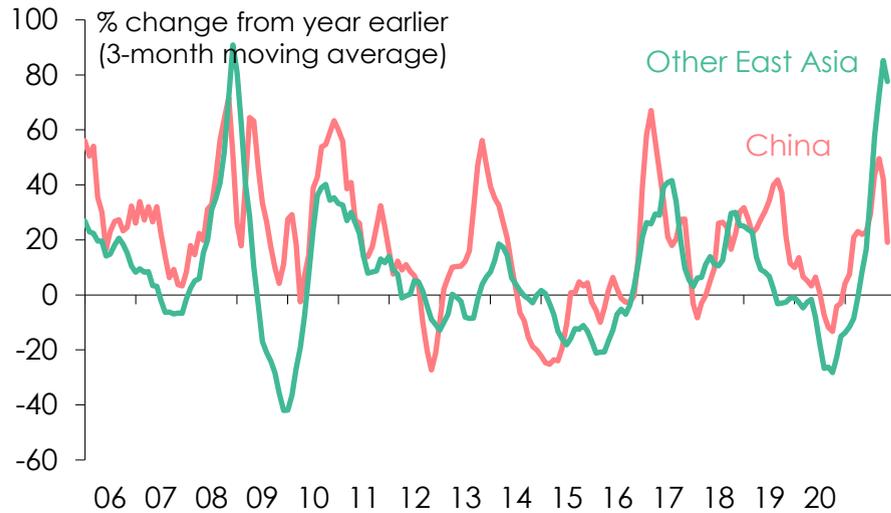
Tourism services trade balance



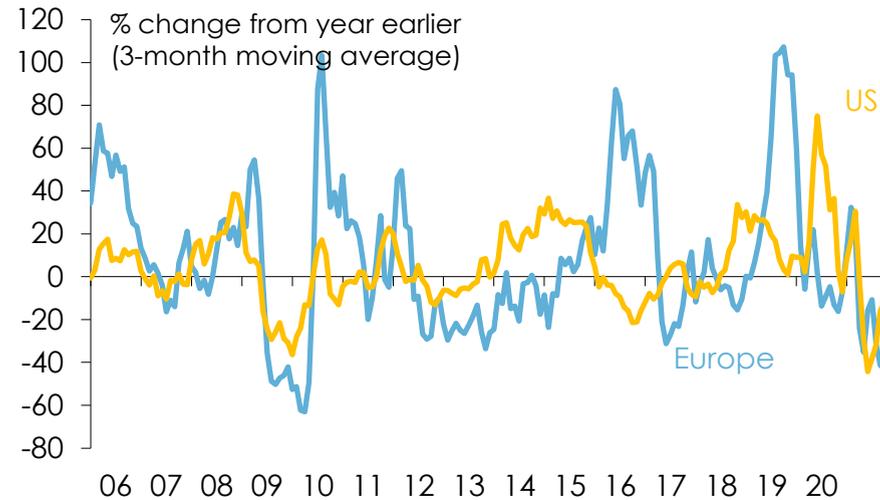
Source: ABS, [International Trade in Goods and Services, Australia](#), October 2021. November data will be released on 11th January 2022. [Return to "What's New"](#).

Australia's trade surplus with China has peaked as iron ore prices have eased, but surpluses with other Asian countries have increased

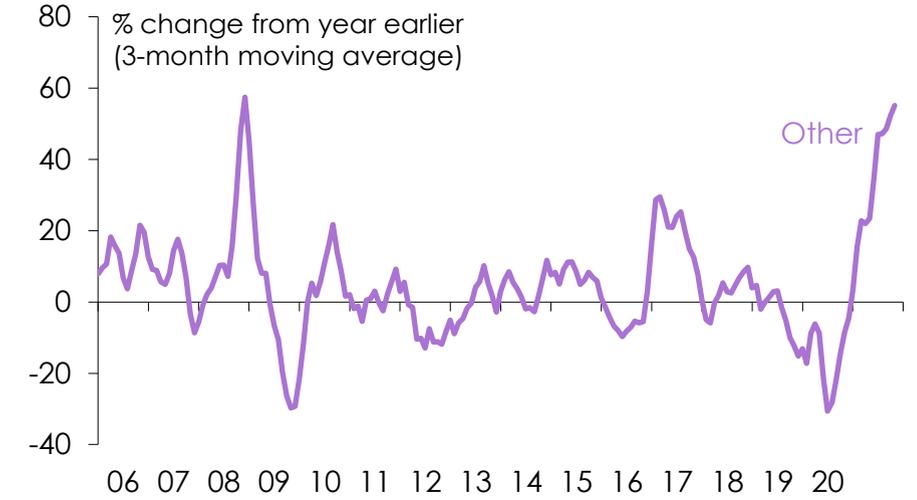
Merchandise exports – East Asia



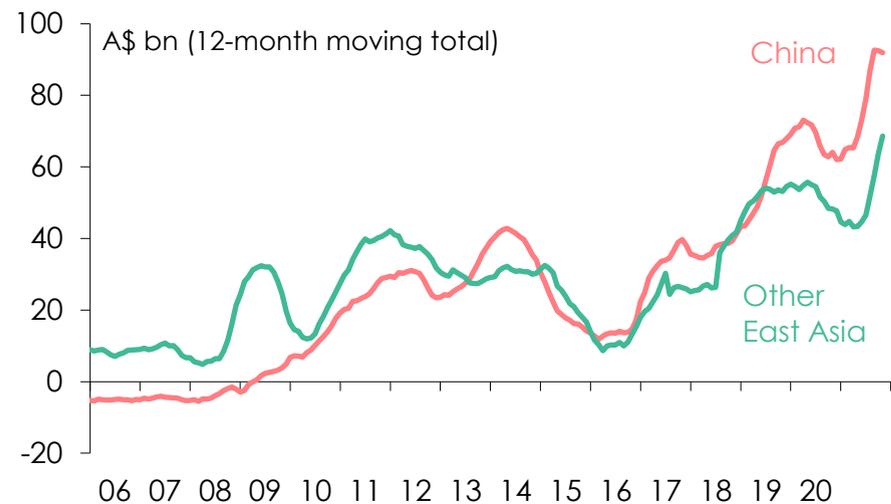
Merchandise exports – US & Europe



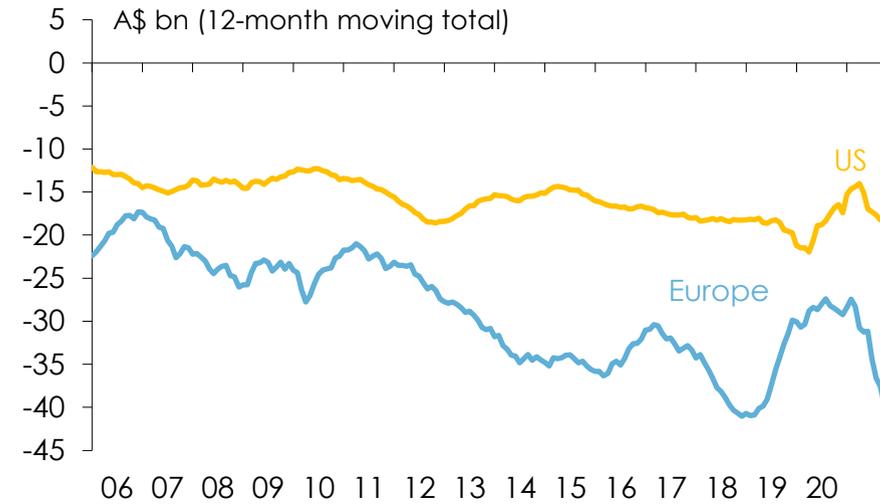
Merchandise exports – other



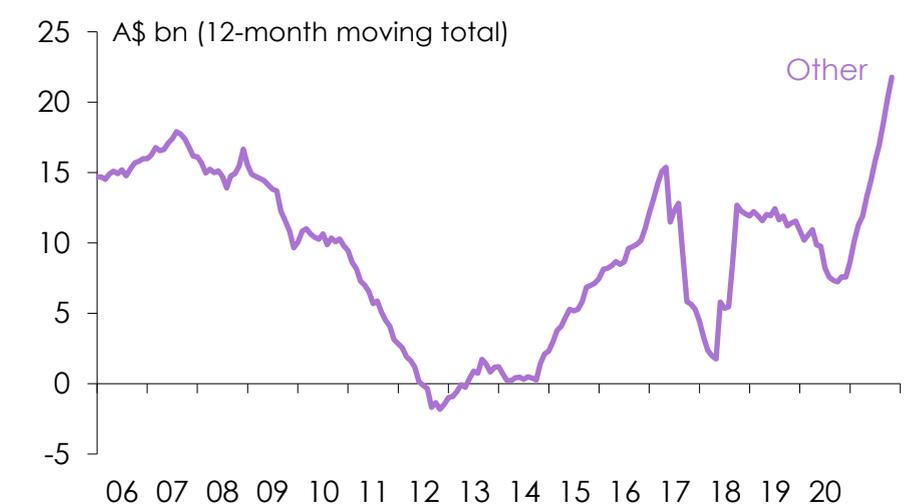
Goods trade balance – East Asia



Goods trade balance – US & Europe



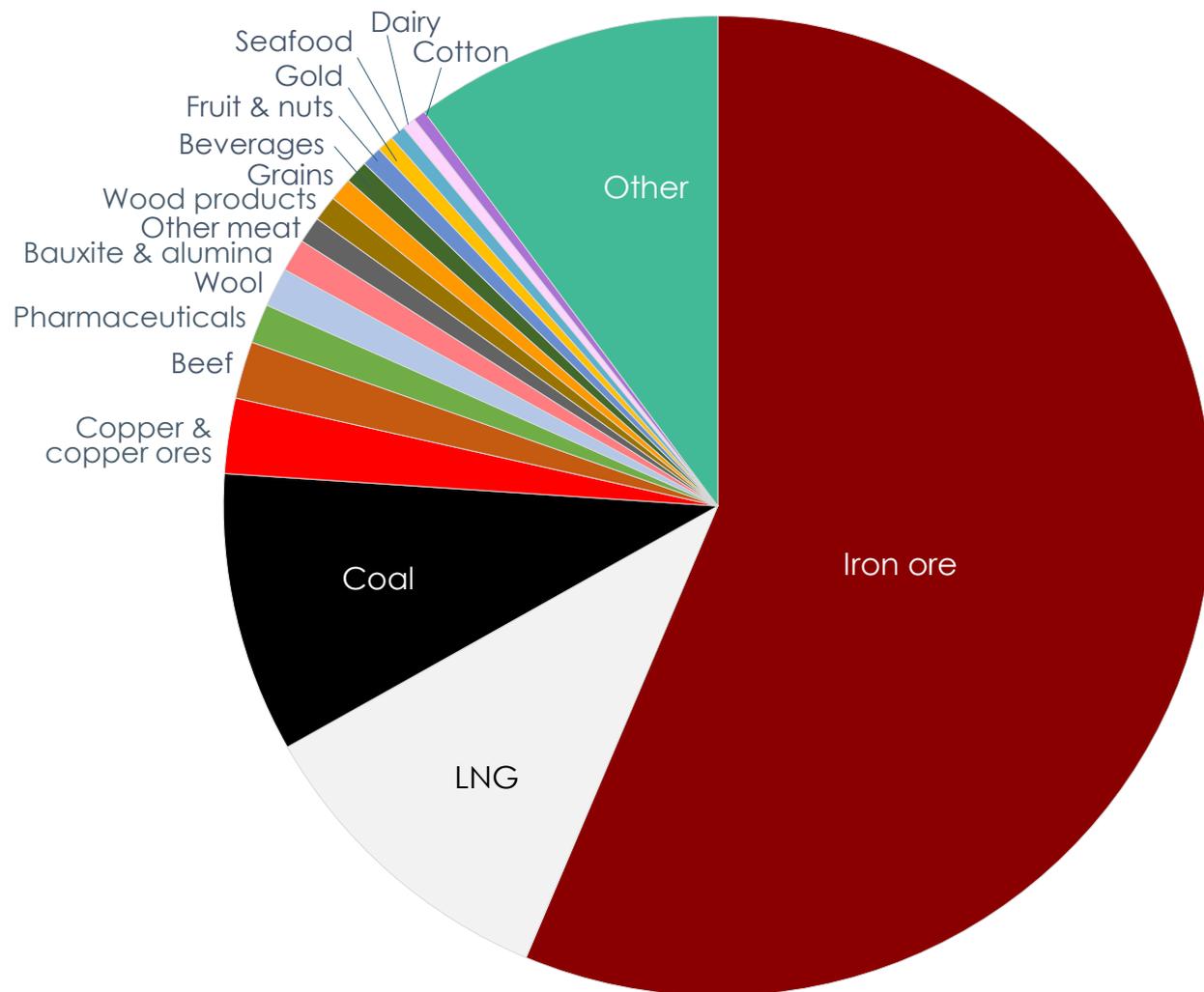
Goods trade balance – other



Note: 'Other East Asia' includes Japan, Korea, Taiwan, Hong Kong and ASEAN. 'Europe' includes the EU, UK and Switzerland. 'Other' includes India, New Zealand and the Pacific, Canada, Latin America, Africa, the Middle East and others not included in the foregoing. Latest data are for August. Source: ABS, [International Trade in Goods and Services, Australia](#), October 2021. November data will be released on 11th January 2022. [Return to "What's New"](#).

The bilateral relationship between Australia and its largest trading partner China seems unlikely to improve any time soon and could get worse

Australia's merchandise exports to China, 2019-20



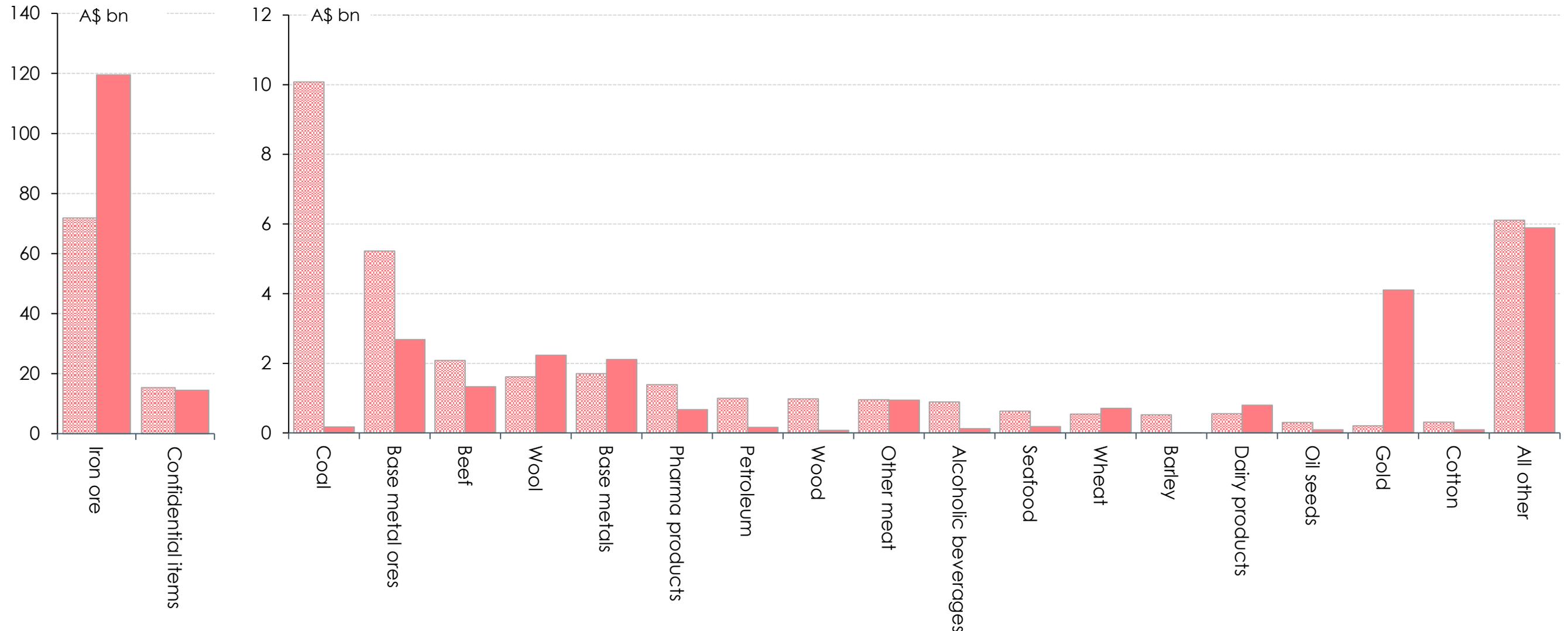
- ❑ China accounted for 39½% of Australia's merchandise exports in FY 2019-20 (the largest proportion any country has since the mid-1950s when 36% of Australia's exports went to the UK)
 - of which iron ore & concentrates accounts for 56%
- ❑ China also accounted for 19% of Australia's services exports in CY 2019 of which tourism & education accounted for over 90%)
- ❑ China has no real alternatives to Australian iron ore in the near term – but it has been progressively expanding the range of other Australian products subject to discriminatory tariffs, “customs inspections”, quarantine issues or outright bans – including wheat, wool, copper ores, sugar, lobsters, timber, wine and coal
 - Australia's exports of these products to China have dropped from about \$25bn in 2019 to an annualized rate of about \$5½bn since the sanctions were imposed – although in many cases Australian exporters have been able to find alternative markets (see next slide)
- ❑ In July China's Foreign Ministry openly acknowledged that it was seeking to ‘punish’ Australia for “groundlessly accusing and smearing China and undermining China's core interests based on ideology” and “acting as a cat's paw” for the United States – a view likely to intensify after the announcement in September of a new defence pact with the US and UK
- ❑ Another looming flashpoint in the bilateral relationship may come from the forthcoming review (by the Defence Department) of the 2015 lease of the Port of Darwin to a Chinese company (Landbridge)

Note: 'Wood' includes wood products; 'dairy' includes milk, cream, butter & cheese; 'seafood' includes crustaceans, fish and processed seafood; 'other' includes confidential items.

Sources: Australian Department of Foreign Affairs & Trade, [Trade Statistical Pivot Tables](#); Corinna. [Return to "What's New"](#).

China's trade boycott of Australia is affecting everything except iron ore, gold, base metals, wool, wheat and dairy products

Australian exports to China, ten months to August 2021 compared with ten months to August 2020

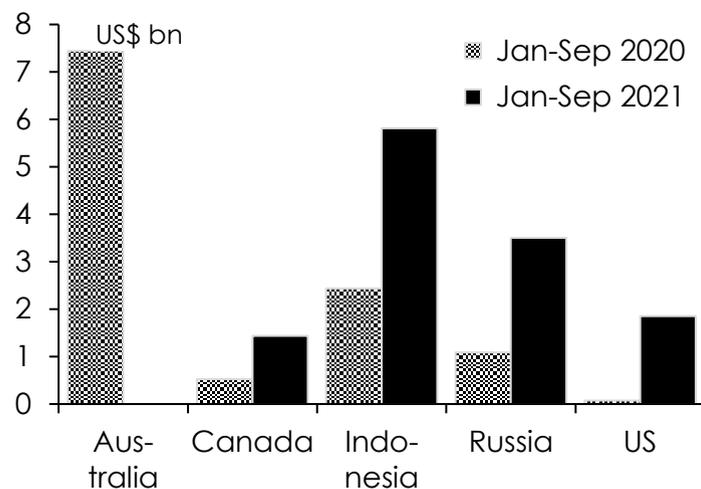


Note: 'confidential items includes, in particular, LNG. Source: Australian Department of Foreign Affairs and Trade, [Trade Statistical Pivot Tables - Country and commodity pivot table monthly](#); Corinna. [Return to "What's New"](#).

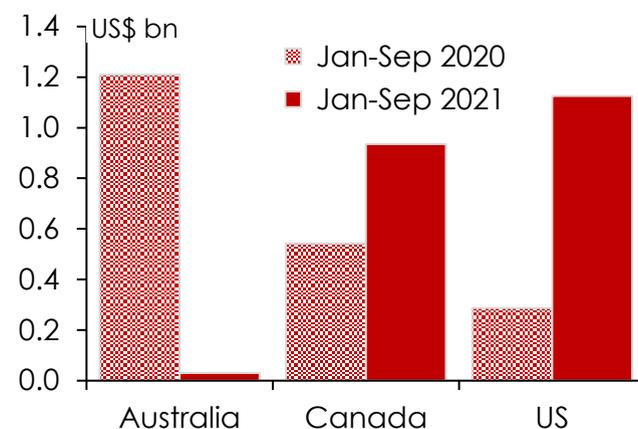
“With friends like these ...” – how Australia’s ‘allies’ have been ‘cutting our lunch’ in trade with China

China’s imports of selected products, by origin – first nine months of 2021 cf. first nine months of 2020

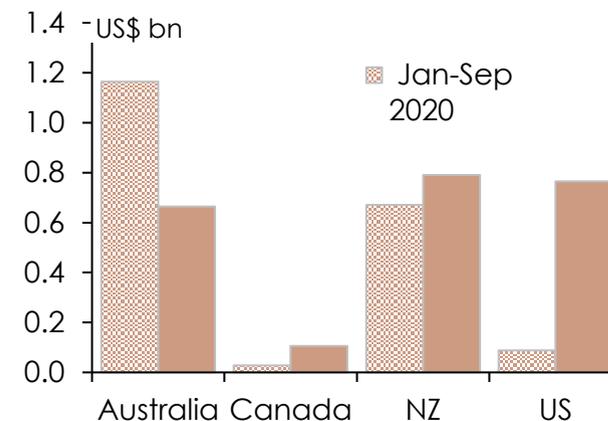
Coal



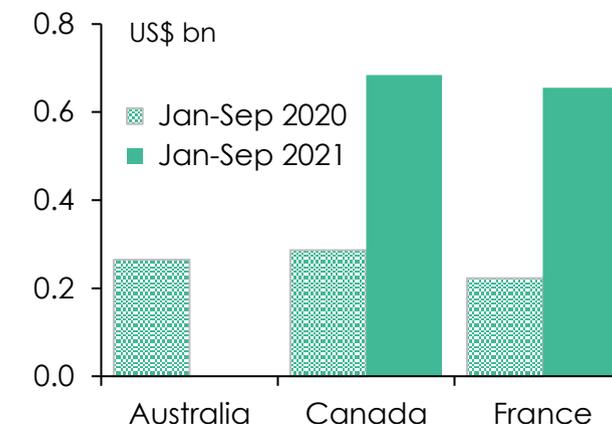
Copper ores



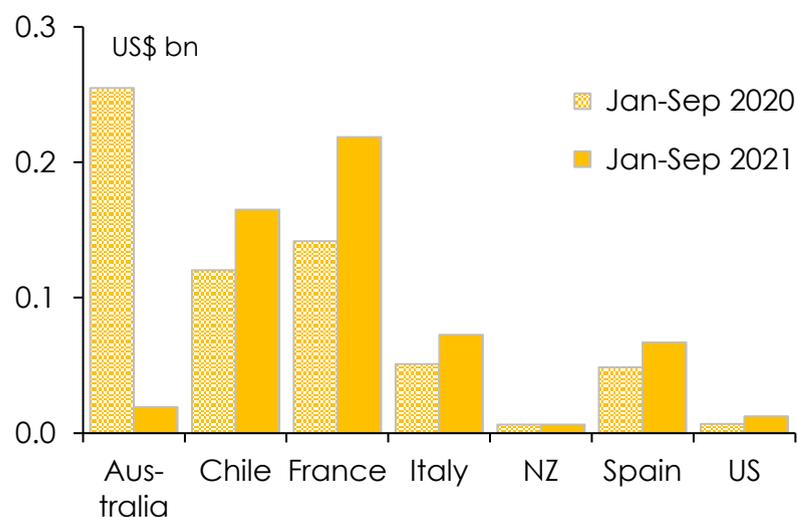
Beef



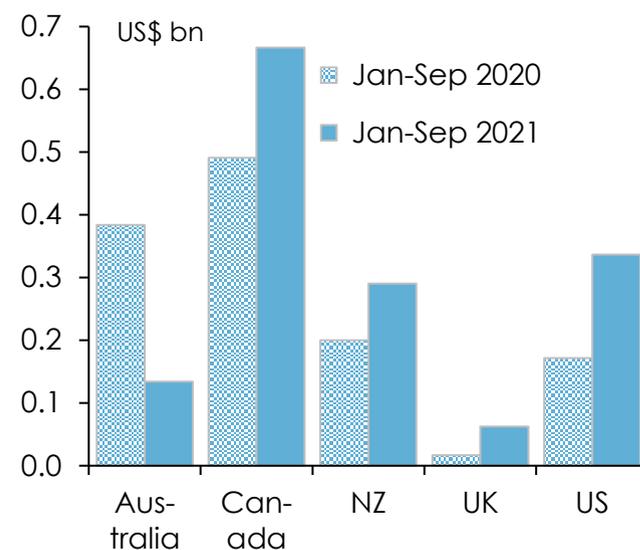
Barley



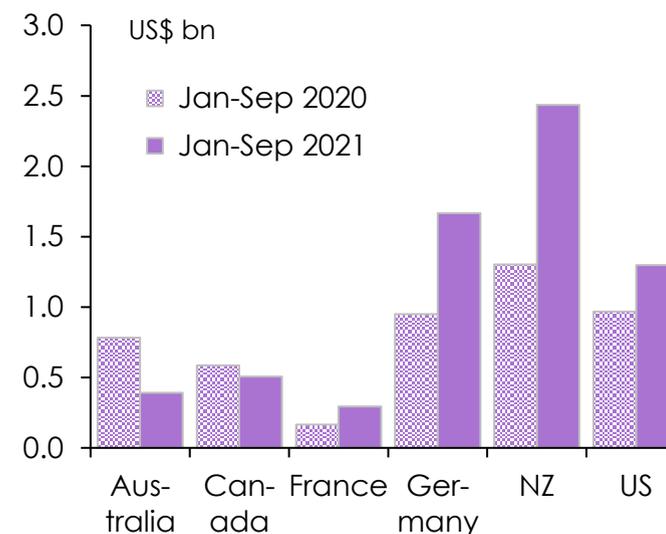
Wine



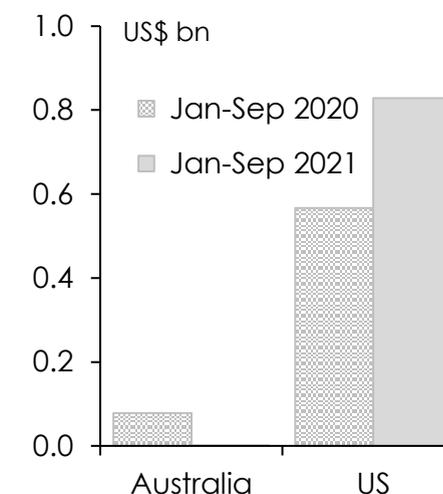
Fish and crustaceans



Wood & wood products

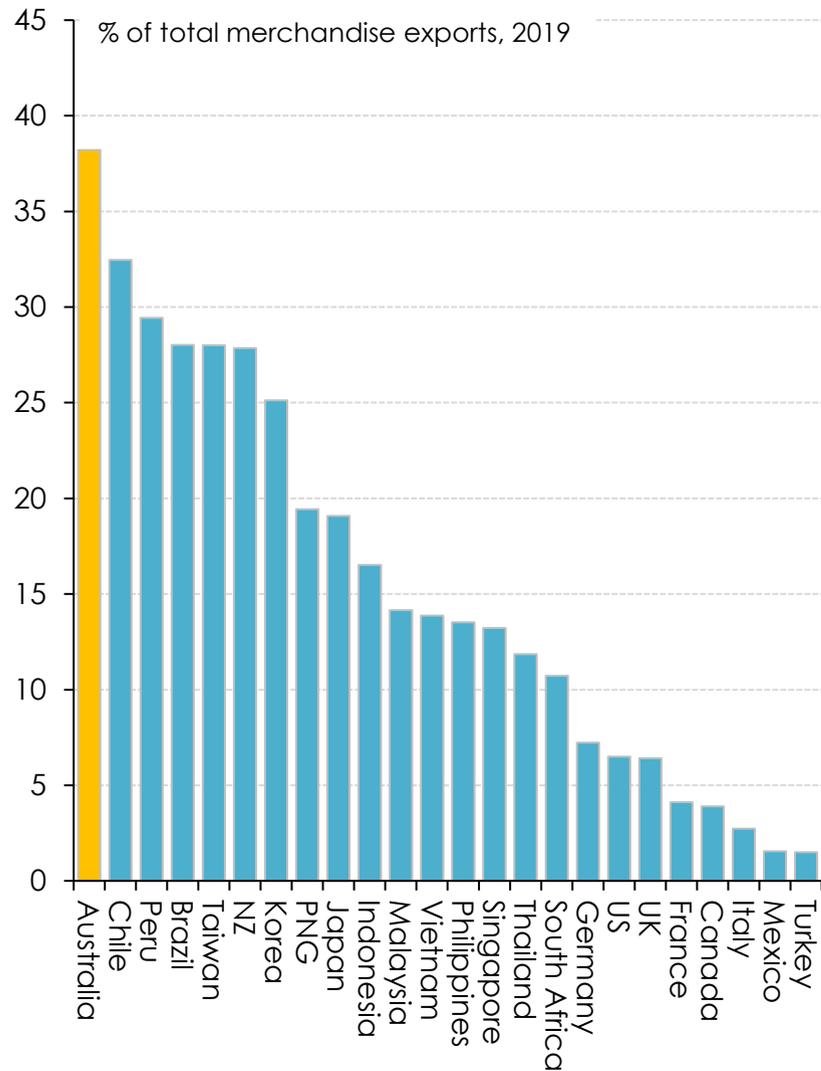


Cotton

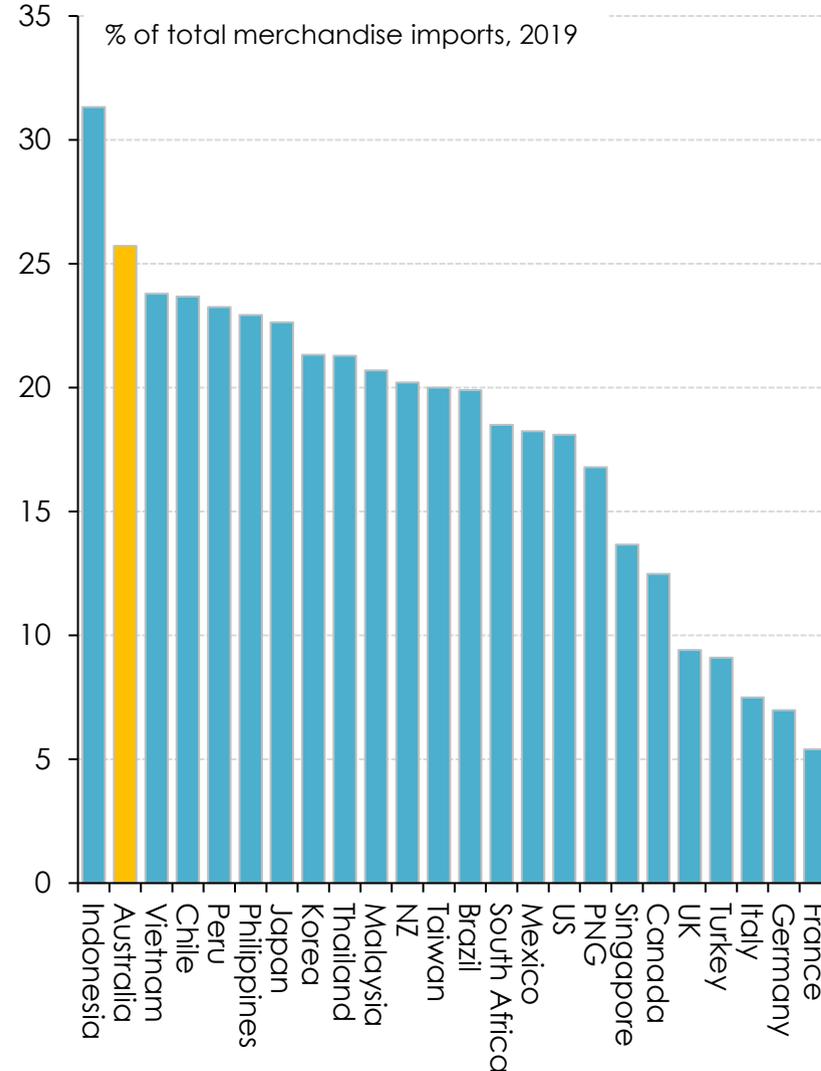


China can cause Australia economic pain because we're very dependent on it, and are one of the few countries with whom China runs a deficit

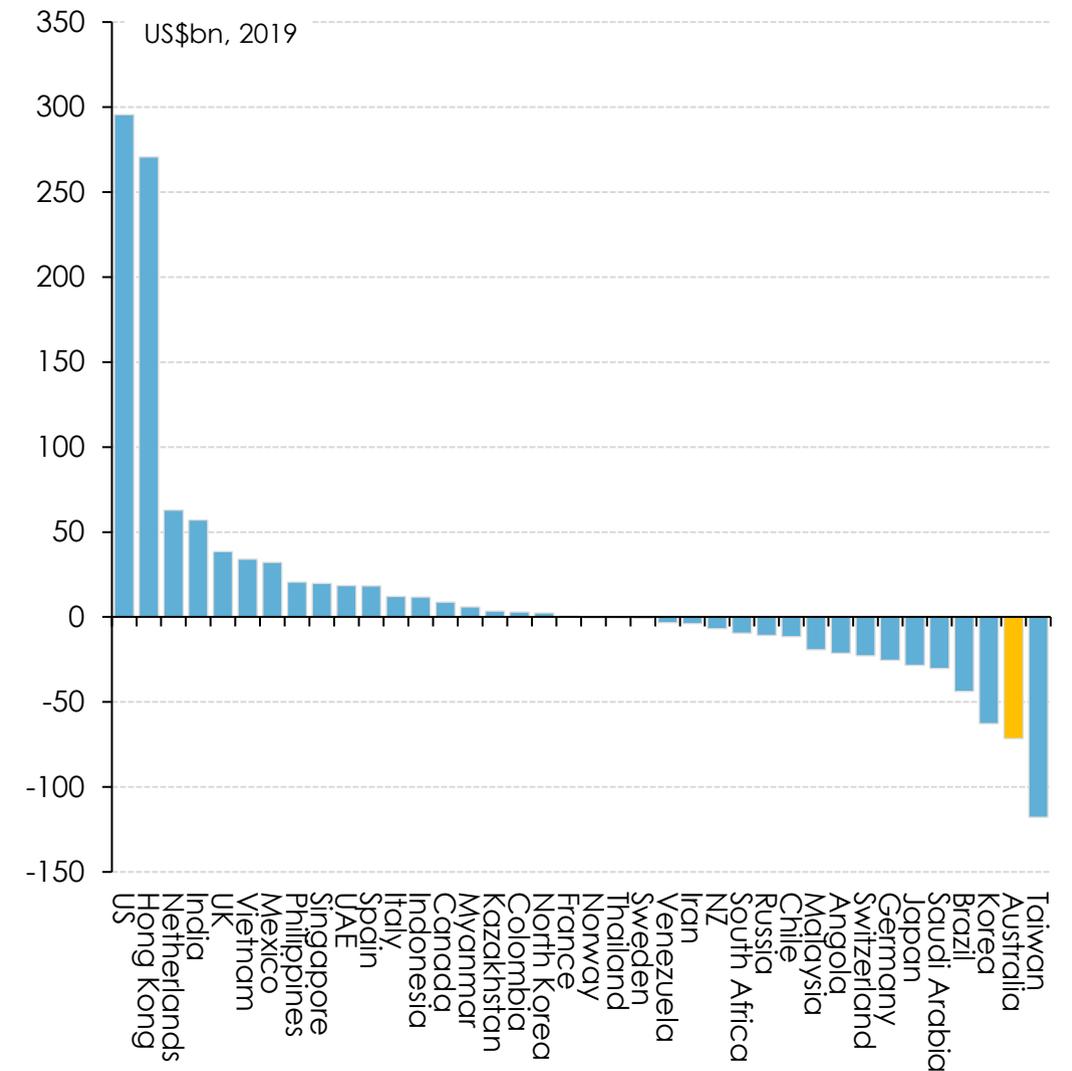
Merchandise exports to China as a pc of total



Merchandise imports from China as a pc of total



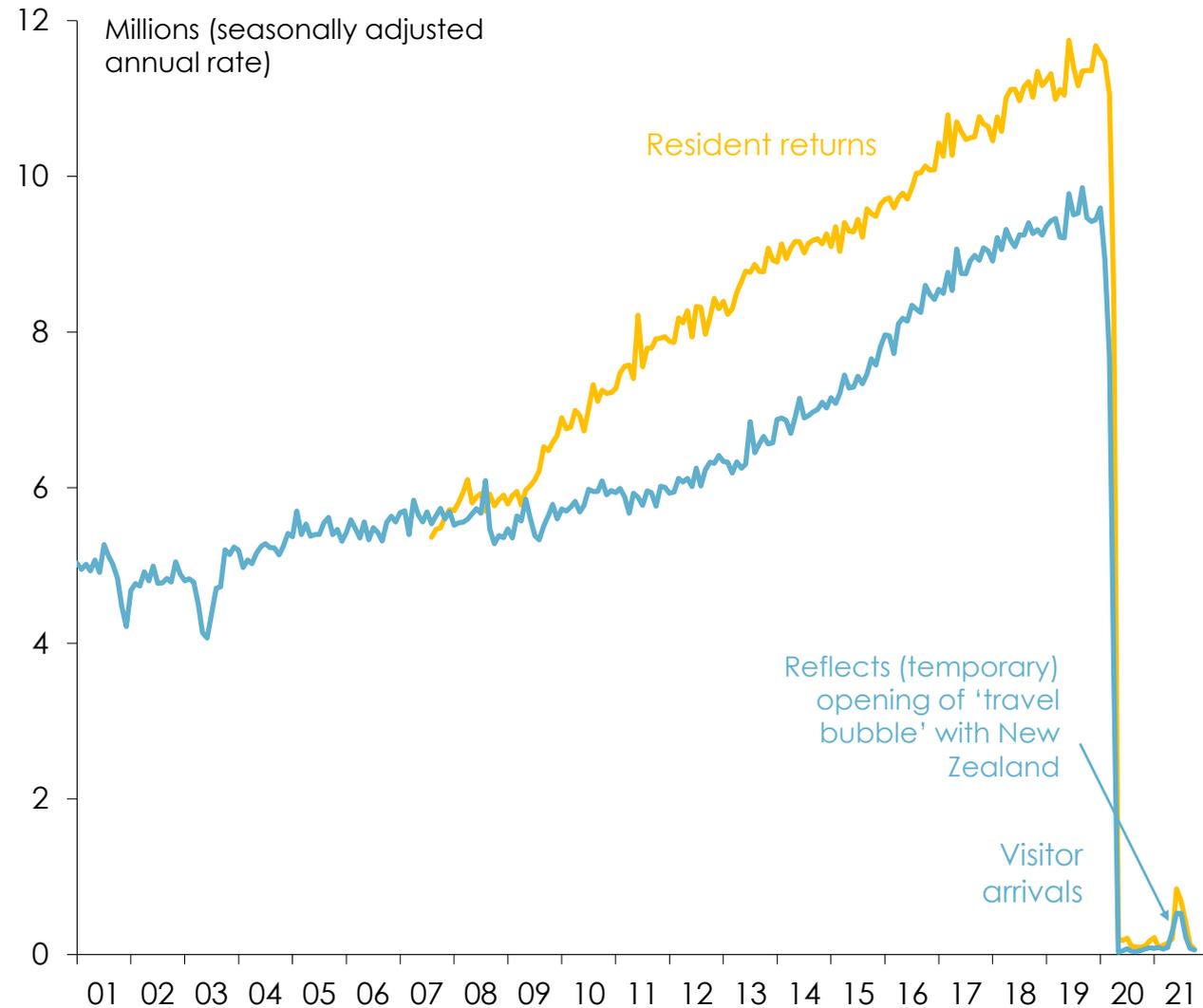
China's bilateral merchandise trade balances



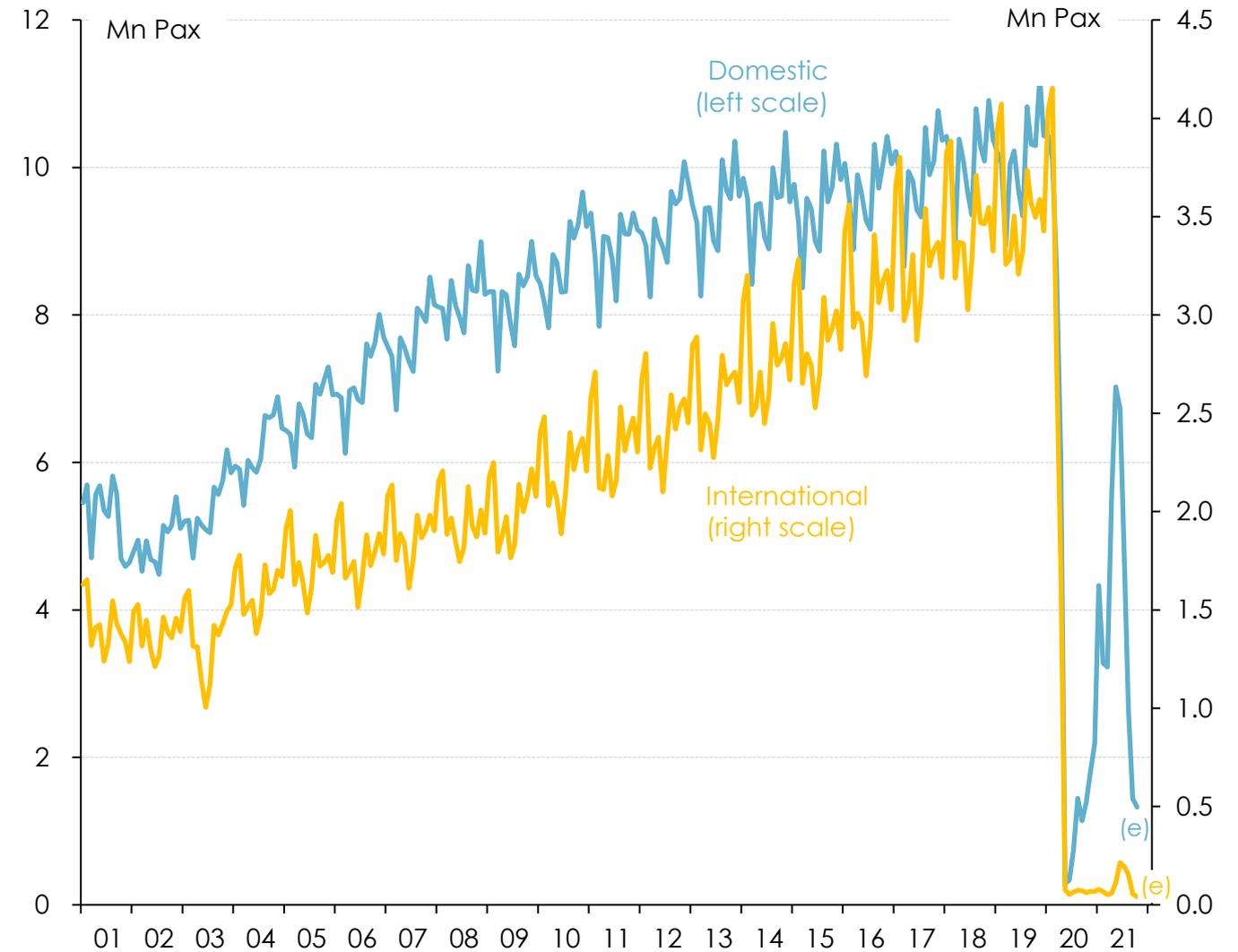
Sources: IMF, Direction of Trade Statistics; Taiwan Ministry of Economic Affairs, Bureau of Foreign Trade. [Return to "What's New"](#).

Domestic aviation picked up strongly between last November and May – but has since slumped with the lockdowns and tighter arrivals caps

Short-term visitor arrivals and resident returns



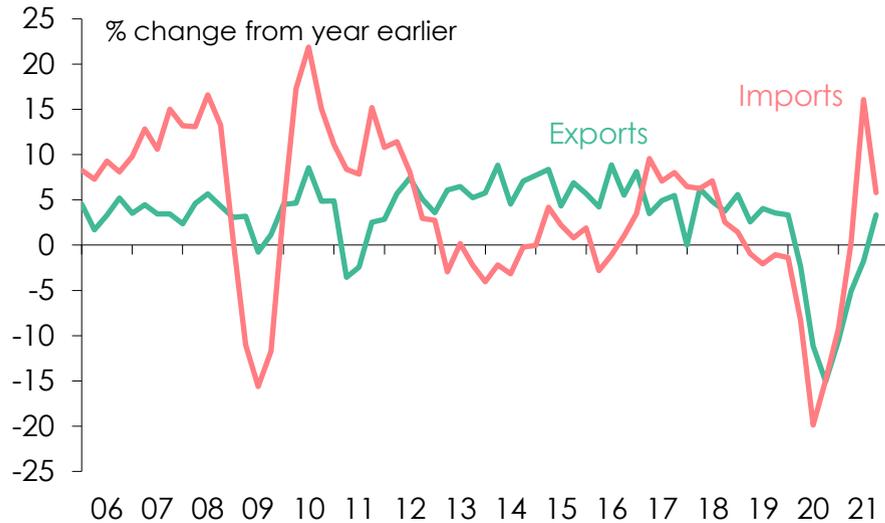
Airport passenger movements



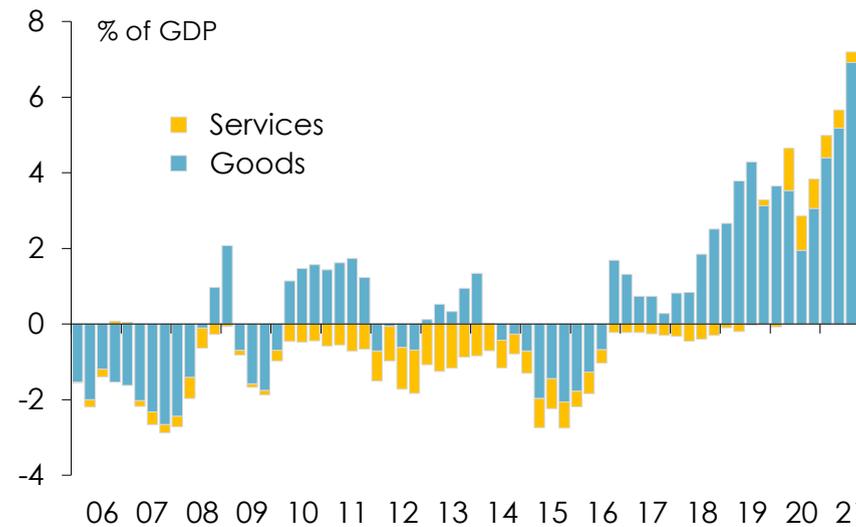
Note: The ABS has suspended publication of seasonally adjusted estimates of short-term visitor arrivals and resident returns, so published original estimates for April 2020 (and beyond) have been seasonally adjusted by Corinna using the same seasonal factors as for the corresponding month of 2019. Latest ABS data on arrivals and departures are for September; BITRE data on airport passenger movements are for August; September 2021 estimate (e) has been extrapolated from data for Sydney Airport published by Sydney Airport Ltd. Sources: [ABS](#); [Bureau of Industry, Transport and Regional Economics \(BITRE\)](#); [Sydney Airport Ltd](#); Corinna. [Return to "What's New"](#).

Australia posted another record current account surplus in the Q3, thanks to another large gain in export prices – but that's probably the peak

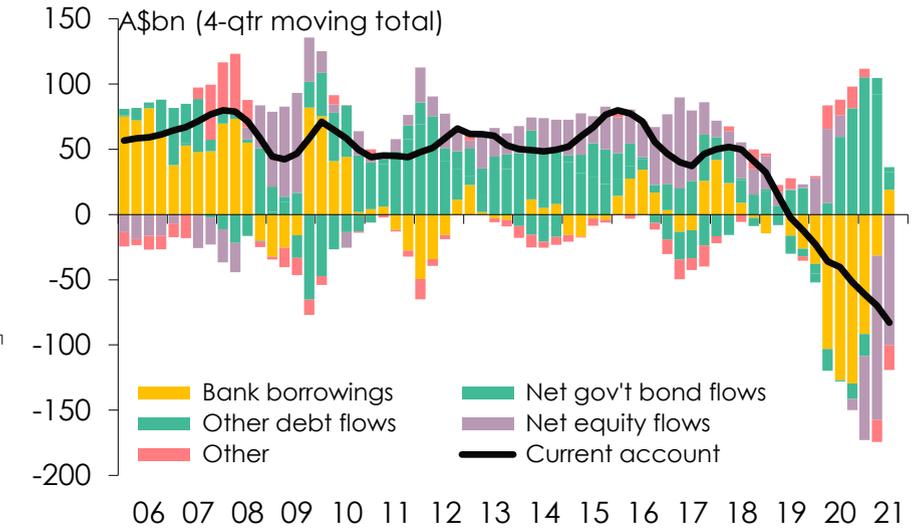
Export and import volumes



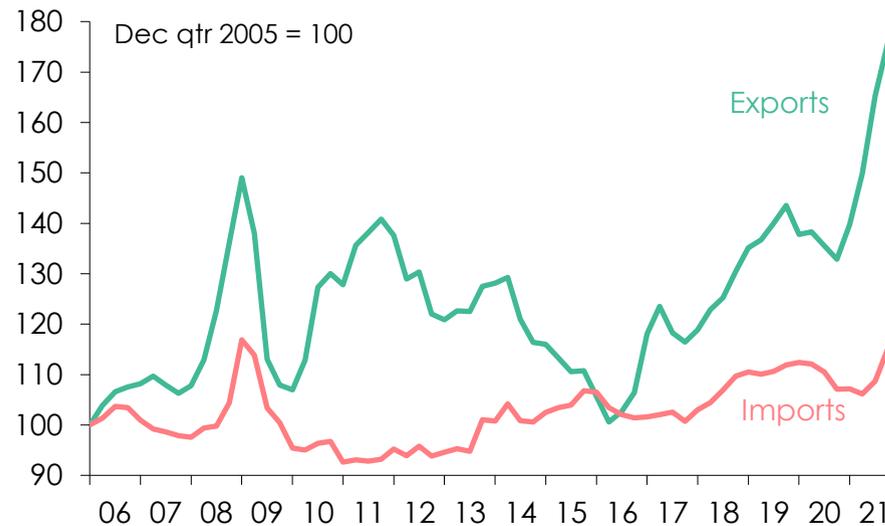
Goods & services trade balances



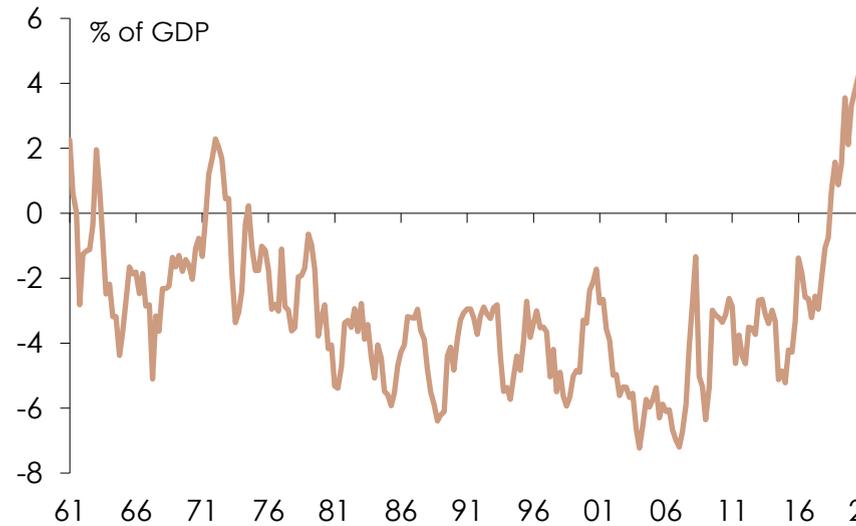
Capital flows



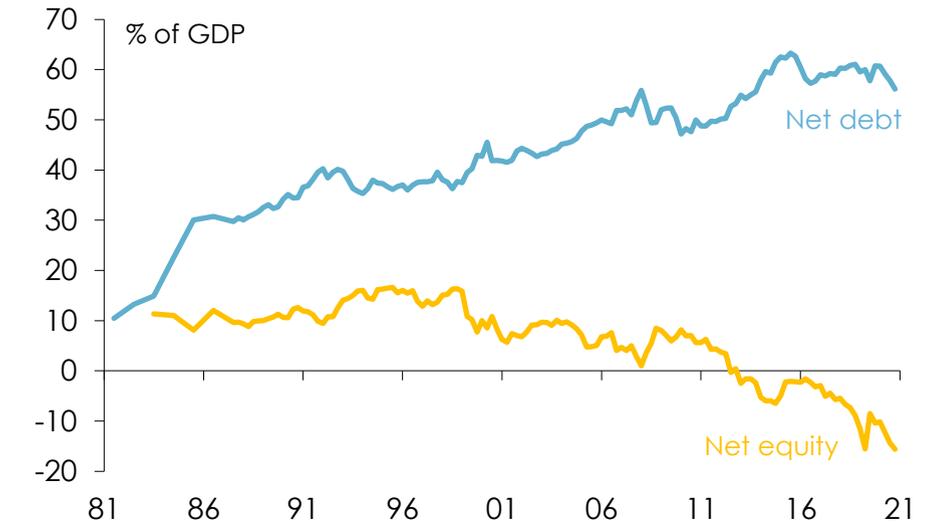
Export and import prices



Current account balance



Net international investment position



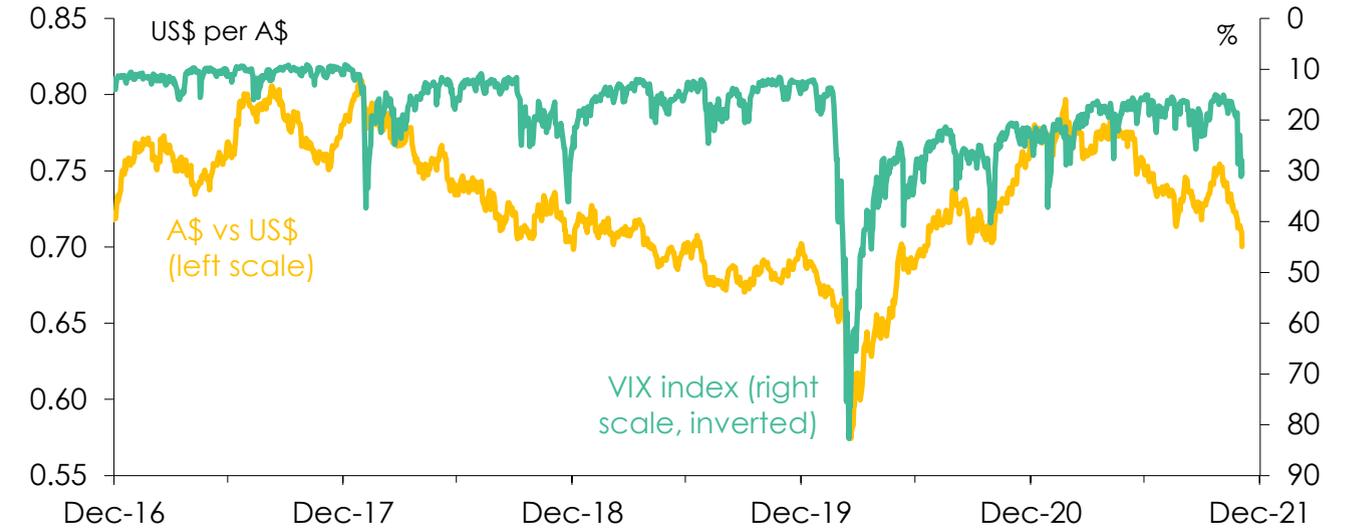
Note: The chart of Australia's international capital flows shows inflows (eg borrowings from abroad) as a positive and outflows (eg repayments of debt, or purchases of foreign equity assets) as a negative. Likewise the chart of Australia's international investment position shows net foreign debt as a positive and net equity assets as a negative. Latest data are for the September quarter 2021; December quarter data will be released on 1st March 2022. Source: ABS, [Balance of Payments and International Investment Position, Australia](#). [Return to "What's New"](#).

The A\$ dropped to just above US70¢ in offshore trading on Friday, the lowest since July last year, on heightened 'risk aversion' prompted by 'omicron'

A\$-US\$ and US\$ trade-weighted index



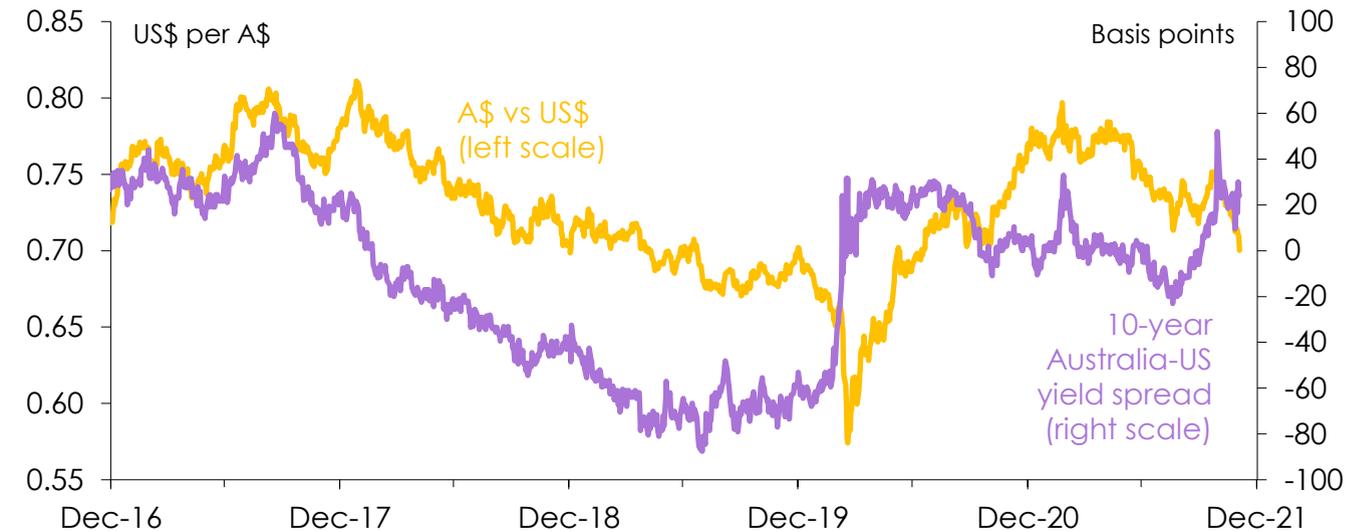
A\$-US\$ and US equity market volatility



A\$-US\$ and spot iron ore prices



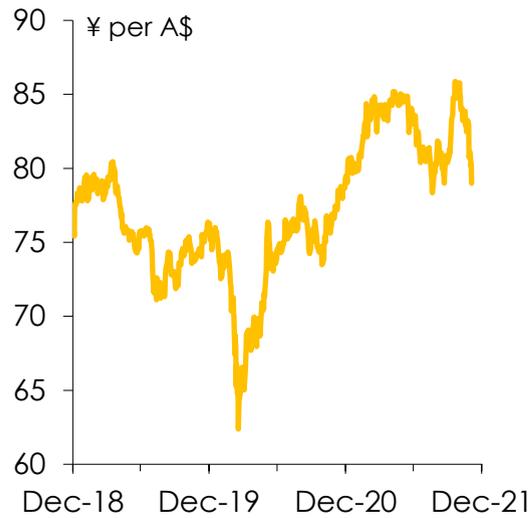
A\$-US\$ and Australia-US 10-year bond yield spread



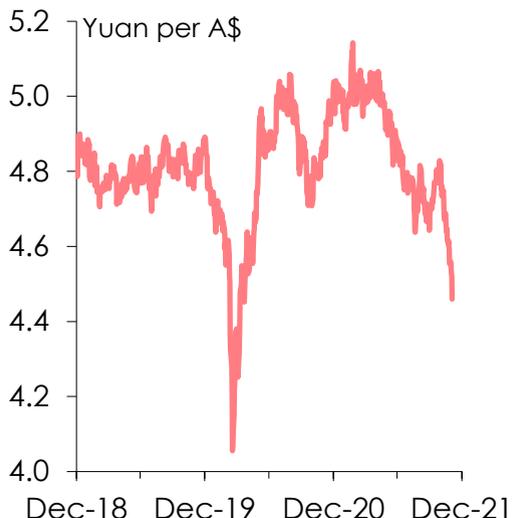
Note: The DXY is an index of the value of the US dollar against 6 other currencies (the euro, yen, pound, Canadian dollar, Swedish krona and Swiss franc). The VIX index is a measure of the implied volatility of S&P500 options and is widely interpreted as an indicator of investor risk appetite or aversion. Source: Refinitiv Datastream. Data up to 3rd December. [Return to "What's New"](#).

The A\$ also fell heavily against third currencies, losing 2.8% against the won and just over 2% vs the yen and yuan, 1.4% vs the euro and 0.9% vs sterling

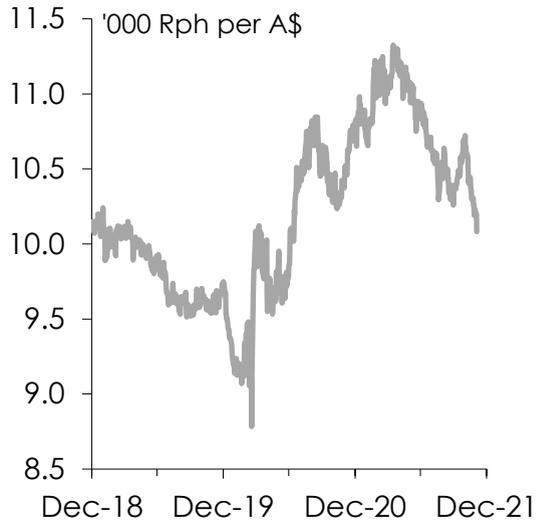
A\$ vs Japanese yen



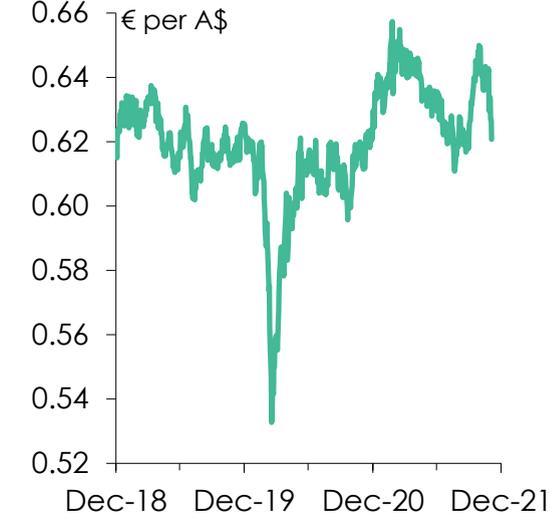
A\$ vs Chinese yuan



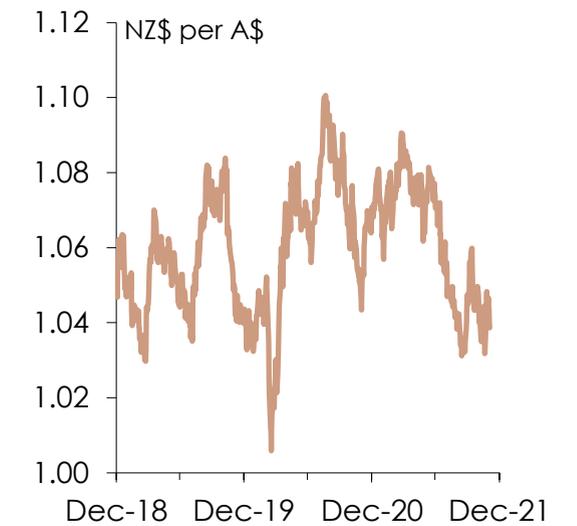
A\$ vs Indo rupiah



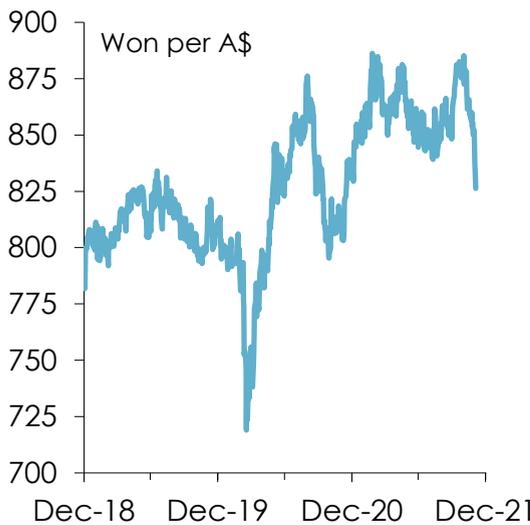
A\$ vs Euro



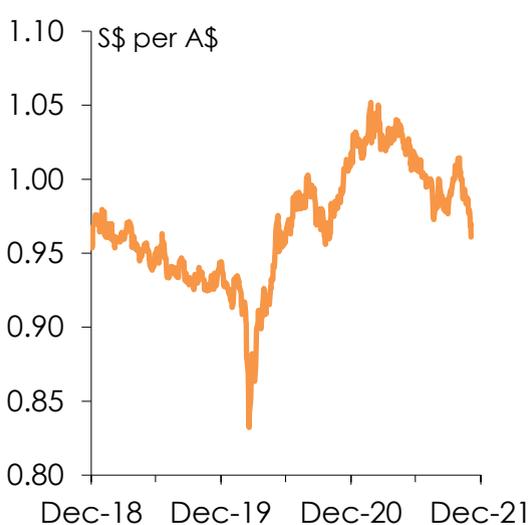
A\$ vs NZ\$



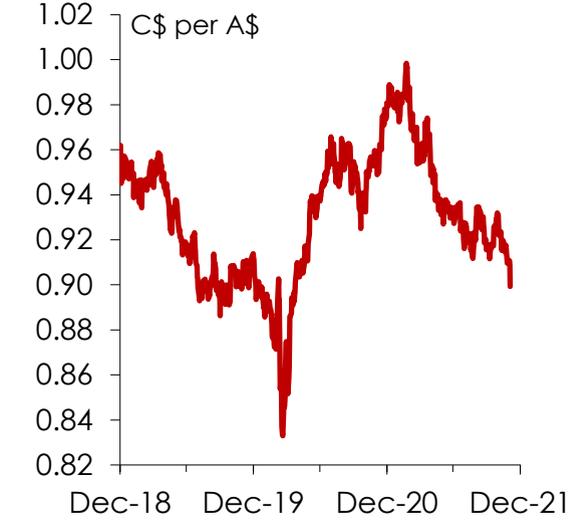
A\$ vs Korean won



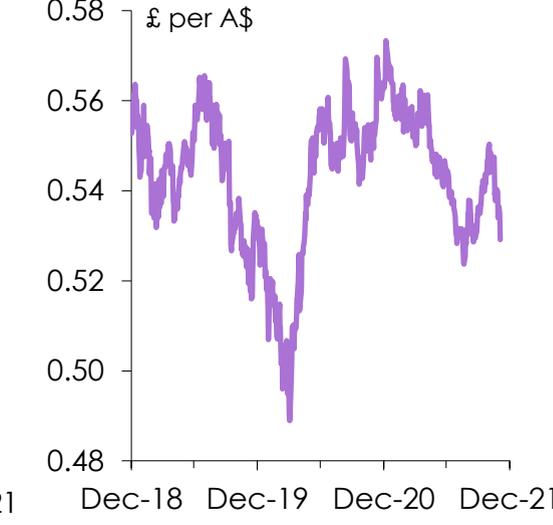
A\$ vs Singapore \$



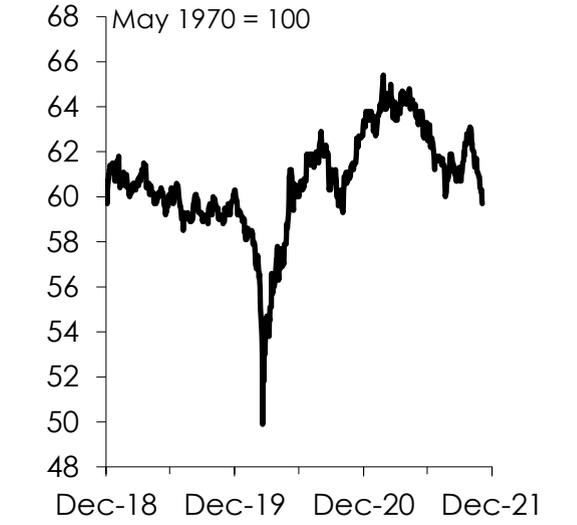
A\$ vs Canadian \$



A\$ vs British pound



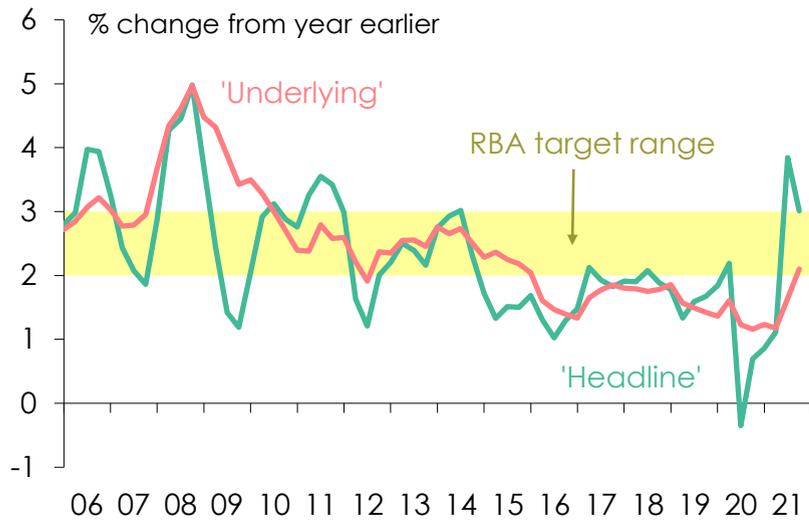
A\$ TWI



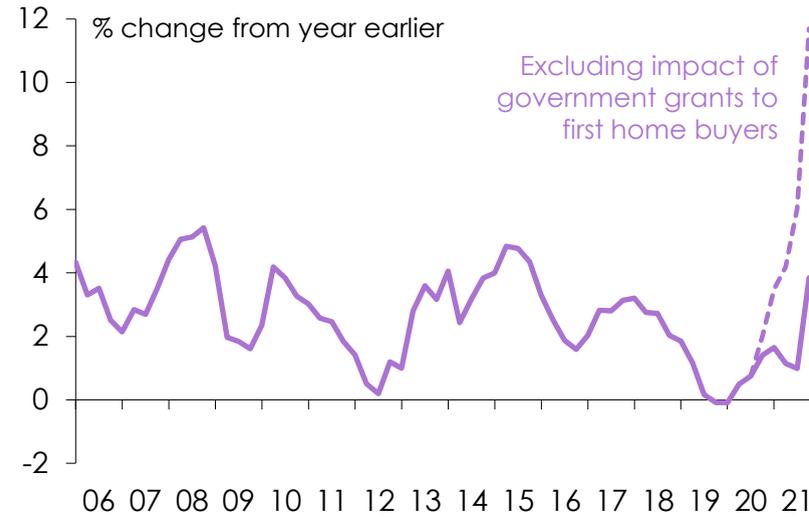
Note: The 'TWI' is the RBA's [trade-weighted index](#) of the A\$. Source: Refinitiv Datastream. Data up to 3rd December. [Return to "What's New"](#).

The 'headline' CPI rose 0.8% in Q3, as expected, but 'underlying' inflation surprised rising 0.7%, pushing the annual rate above 2%

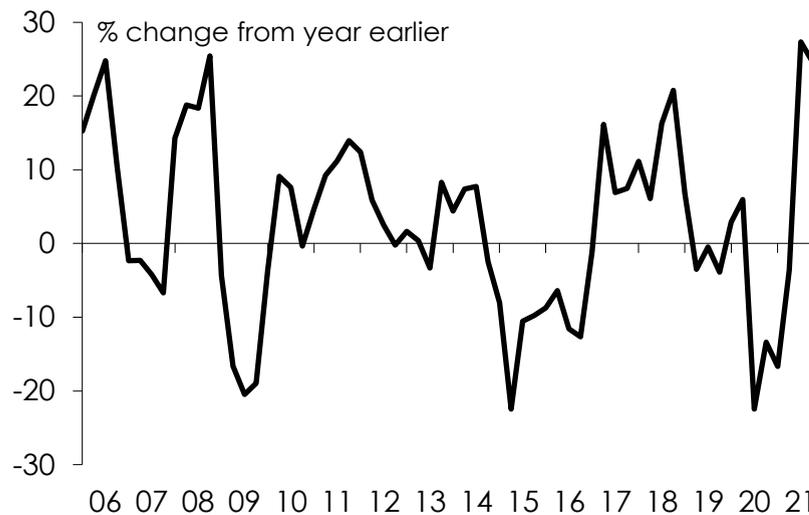
Consumer prices



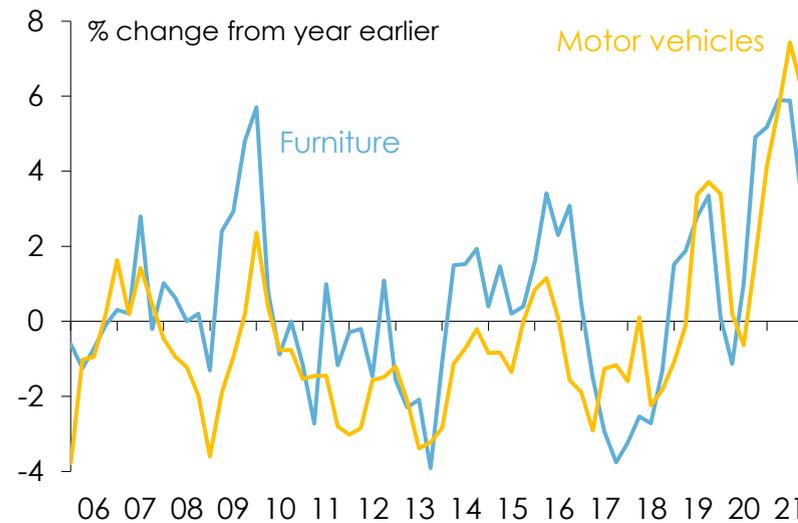
New dwelling purchase costs



Automotive fuel prices



Supply-chain affected prices

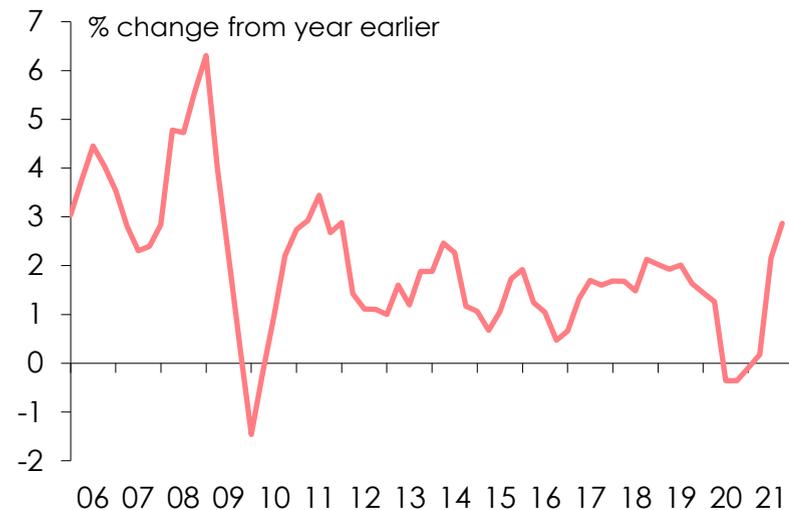


- ❑ The CPI rose 0.8%, as expected, in Q3, with the annual rate (which had been inflated in Q2 by 'base effects' especially from free child care in Q2 last year) falling from 3.8% to 3.0%
- ❑ But the statistical measures of 'underlying' rose a larger-than-expected 0.7%, the biggest quarterly increase since Q4 2013, pushing the annual 'underlying' inflation rate to 2.1%, the first time it has been inside the RBA's target band since Q4 2015
- ❑ 0.28 pc pts (or 37%) of the 0.8% rise in the CPI in Q3 came from a 3.3% increase in new dwelling purchase costs (would have been 6.5% but for the impact of government grants)
- ❑ 0.25 pc pts (33%) of the Q3 increase came from a 24.6% increase in petrol prices, 0.09 pc pts (12%) from increased prices for meals out and take-away foods, and 0.08 pc pts (11%) from supply-chain affected items such as furniture and cars
- ❑ The larger-than-expected rise in measures of 'underlying' inflation (which exclude these 'outliers') is partly due to an unusually small number of items experiencing price falls

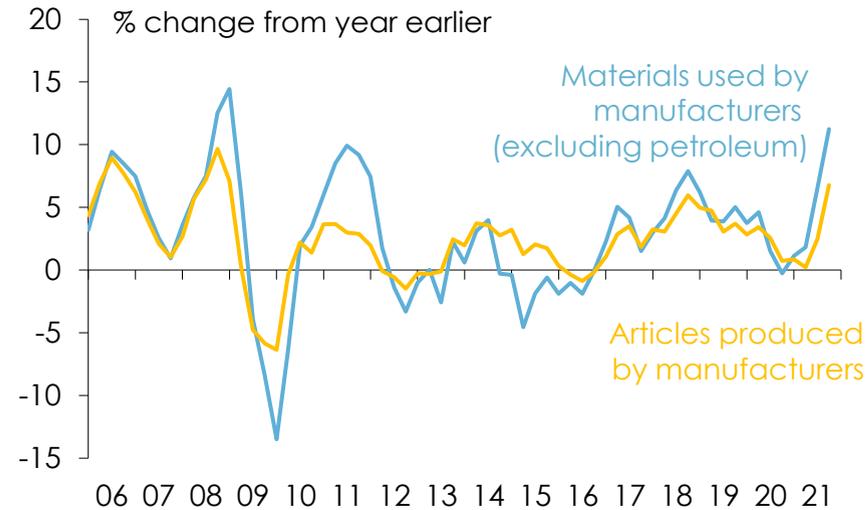
Note: 'Underlying' inflation is the average of the weighted median and trimmed mean CPIs. Wage price indices exclude bonuses. Sources: ABS, [Consumer Price Index, Australia](#). The December quarter (Q4) CPI will be released on 25th January. [Return to "What's New"](#).

'Upstream' price pressures, which had been less apparent in Australia than elsewhere earlier this year, intensified during the September quarter

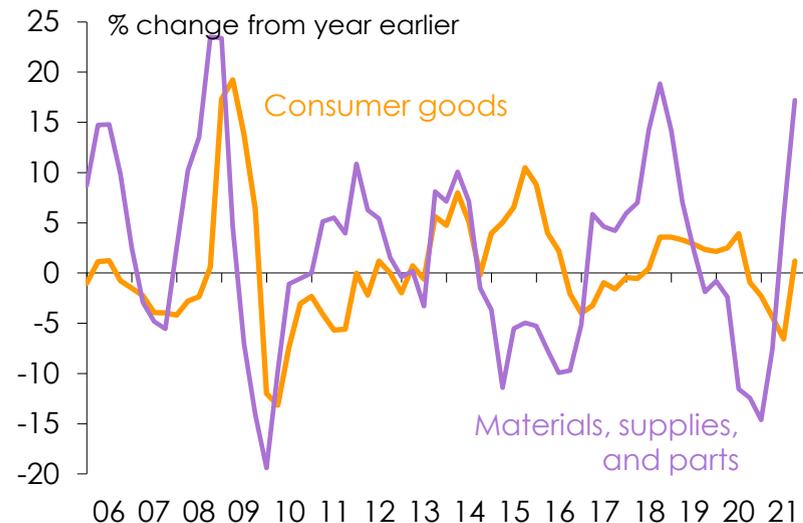
Producer price index



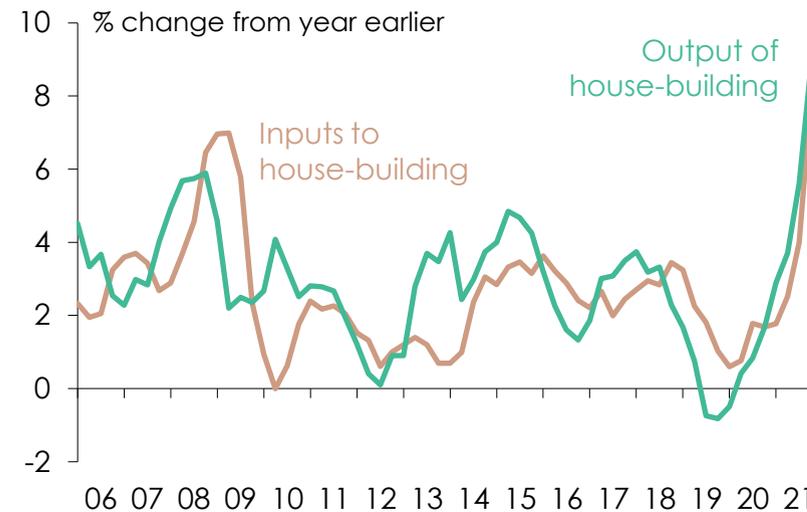
Manufacturing input & output prices



Imported consumer goods prices



Construction input & output prices

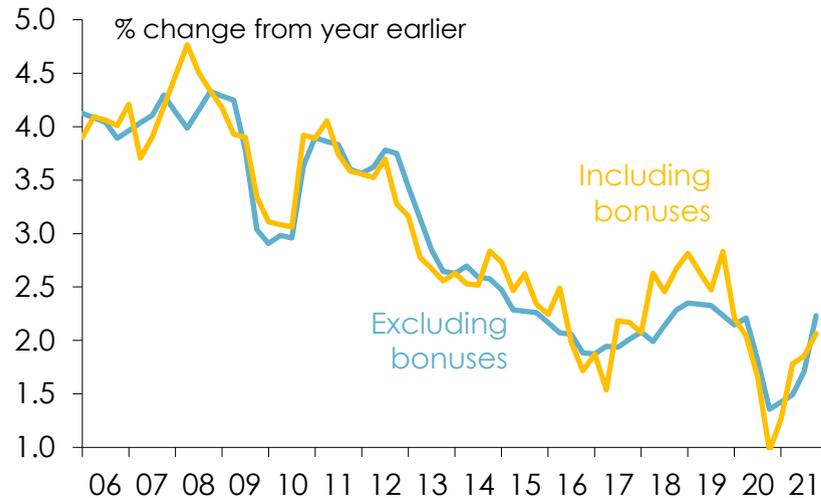


- ❑ Until the September quarter there had been very little evidence in Australia of the 'upstream' inflation pressure apparent in many other economies – with the exception of the construction sector
- ❑ However the producer price index (which in Australia includes a range of services sectors, but excludes exports) rose by 1.1% in Q3 – the largest increase in eight years
 - which after a 0.7% increase in Q2 pushed the annual PPI inflation rate to 2.9%, the highest since Q4 2011
 - the manufacturing sector contributed 36% Q3 PPI increase, and the construction sector a further 31%
 - sea freight transport services prices rose 43% in Q3 (and by 105% from Q3 last year) although this only accounted for 1½% of the increase in the overall PPI in Q3
- ❑ The import price index rose 5.4% in Q3, the largest increase since Q3 2013
 - a 57% increase in prices of imported petroleum products was the largest contributor
 - but imported consumer goods prices also rose 4.1%, the largest in eight years

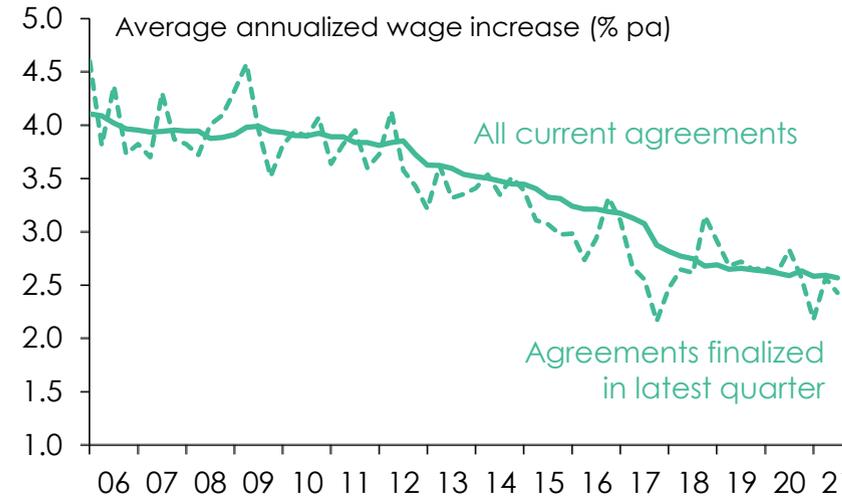
Sources: ABS, [Producer Price Indexes, Australia](#) and [International Trade Price Indexes, Australia](#), September quarter 2021.
[Return to "What's New"](#).

Wages growth is (as of Q3) back to where it had been pre-Covid, but is still well below what the RBA regards as consistent with its 2-3% target

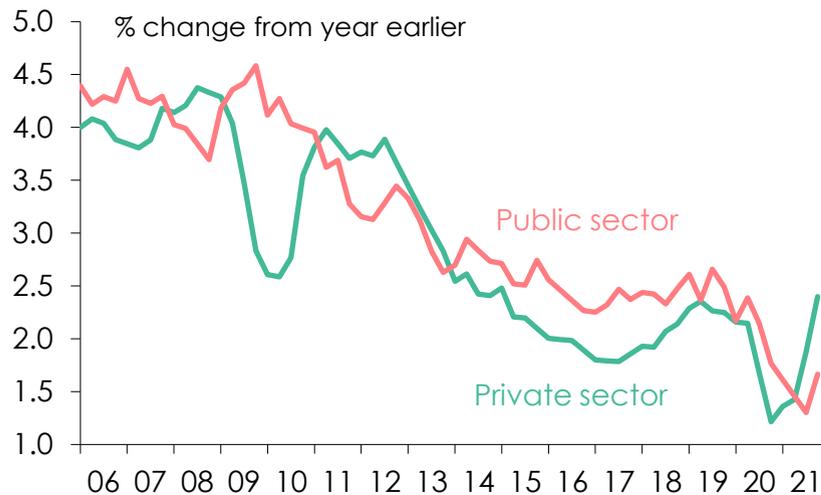
Wage price index – all sectors



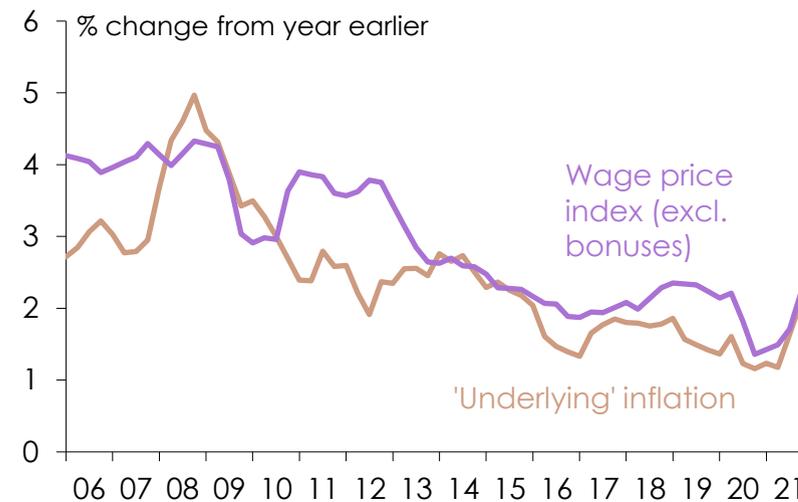
Enterprise bargaining agreements



WPI – private vs public sectors



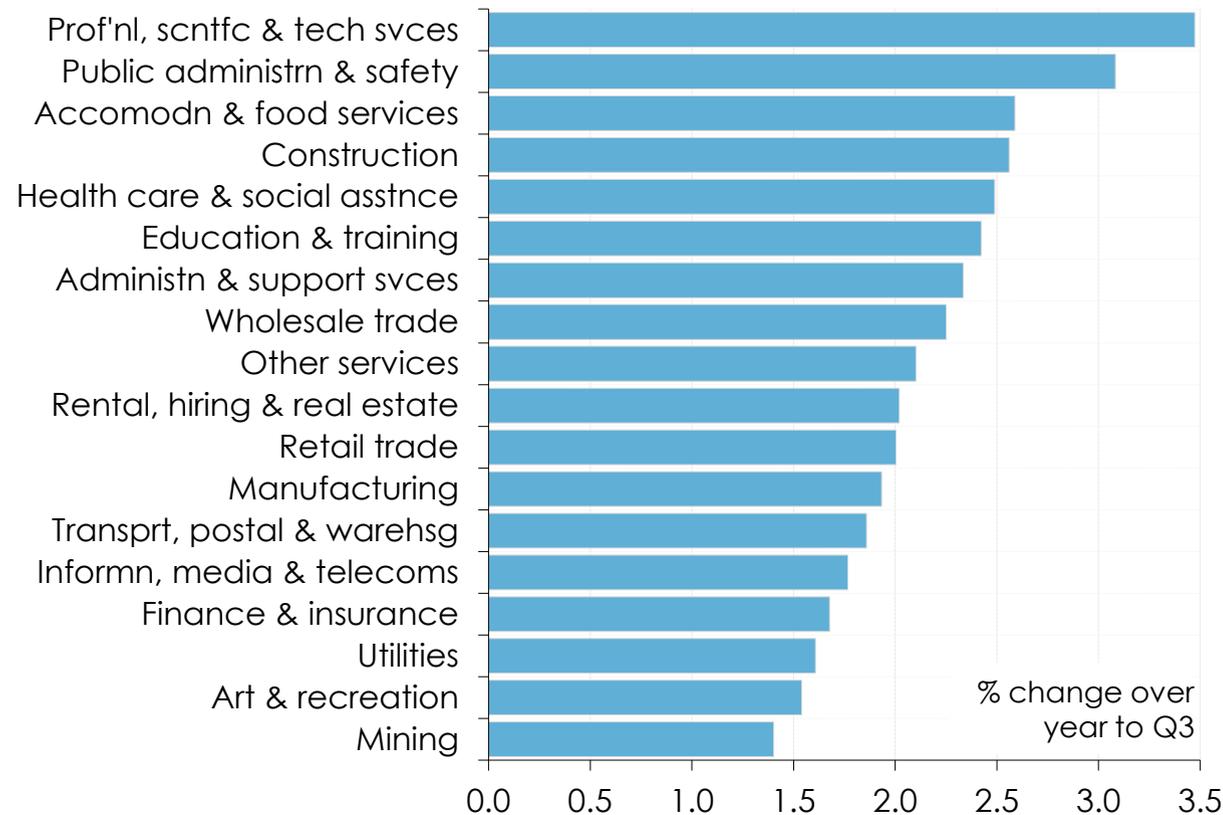
WPI and 'underlying' CPI inflation



- ❑ The wage price index (excl. bonuses) rose 0.6% in Q3, up from 0.4% in Q2 but in line with Q1 and Q4 last year, pushing the annual rate back up to 2.2%, where it was in Q1 last year
- ❑ In other words, wages growth has now reverted to its (fairly weak) pre-Covid trend
 - it remains well short of the “3 point something percent” which RBA Governor Philip Lowe last month again identified as “likely will need to be growing at 3 point something per cent to sustain inflation around the middle of the target band”
- ❑ The main contributors to the Q3 increase were an end to ‘wage freezes’ in parts of the public sector, pay rises averaging more than 1% in a small number of sectors experiencing labour shortages, and partial implementation of the most recent increase in the minimum wage awarded by the Fair Work Commission in June

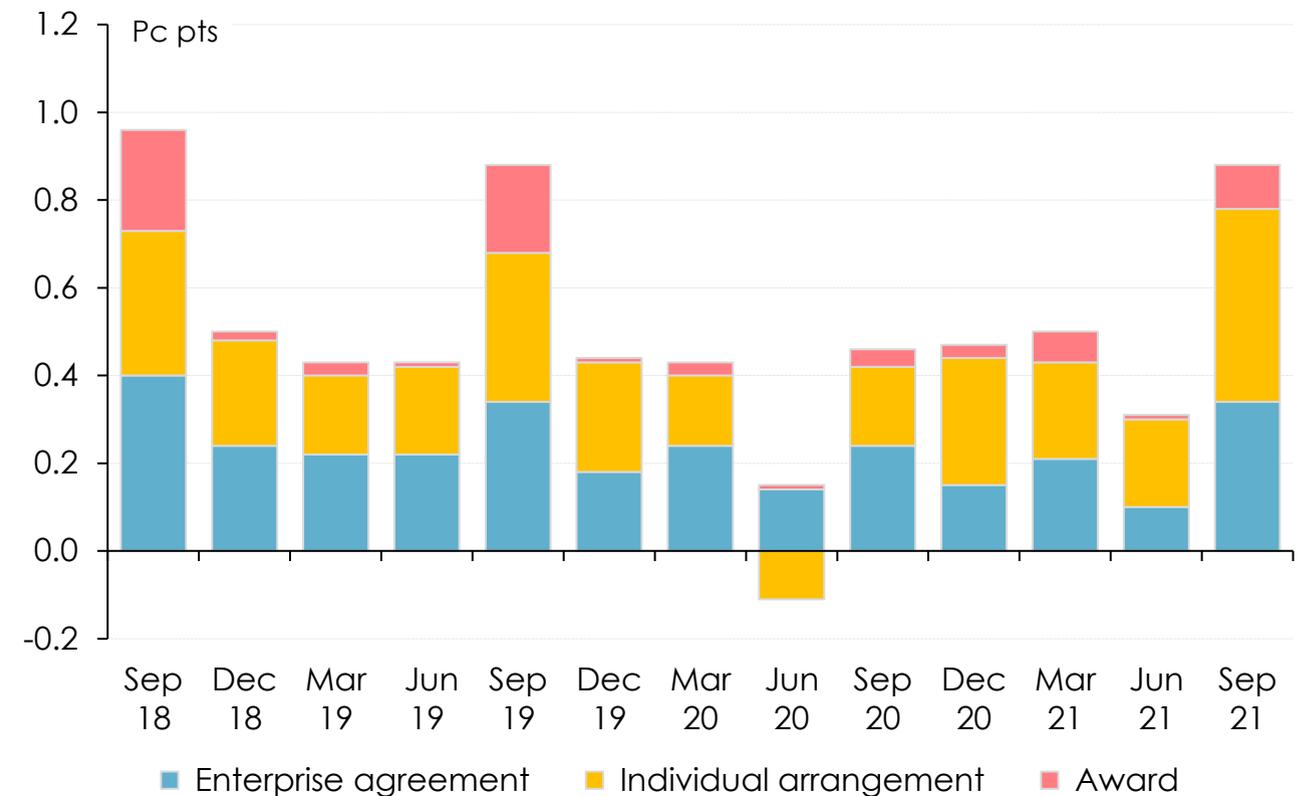
The slight pick up in wages growth in Q3 largely reflects individual agreements in a few sectors, plus an end to public sector 'wage freezes'

Increase in wage price index over year to Q3 by sector



☐ To date, wages growth has only picked up in a few sectors – professional, scientific & technical services, and public administration & defence

Contribution to quarterly changes in wage price index, by method of setting pay

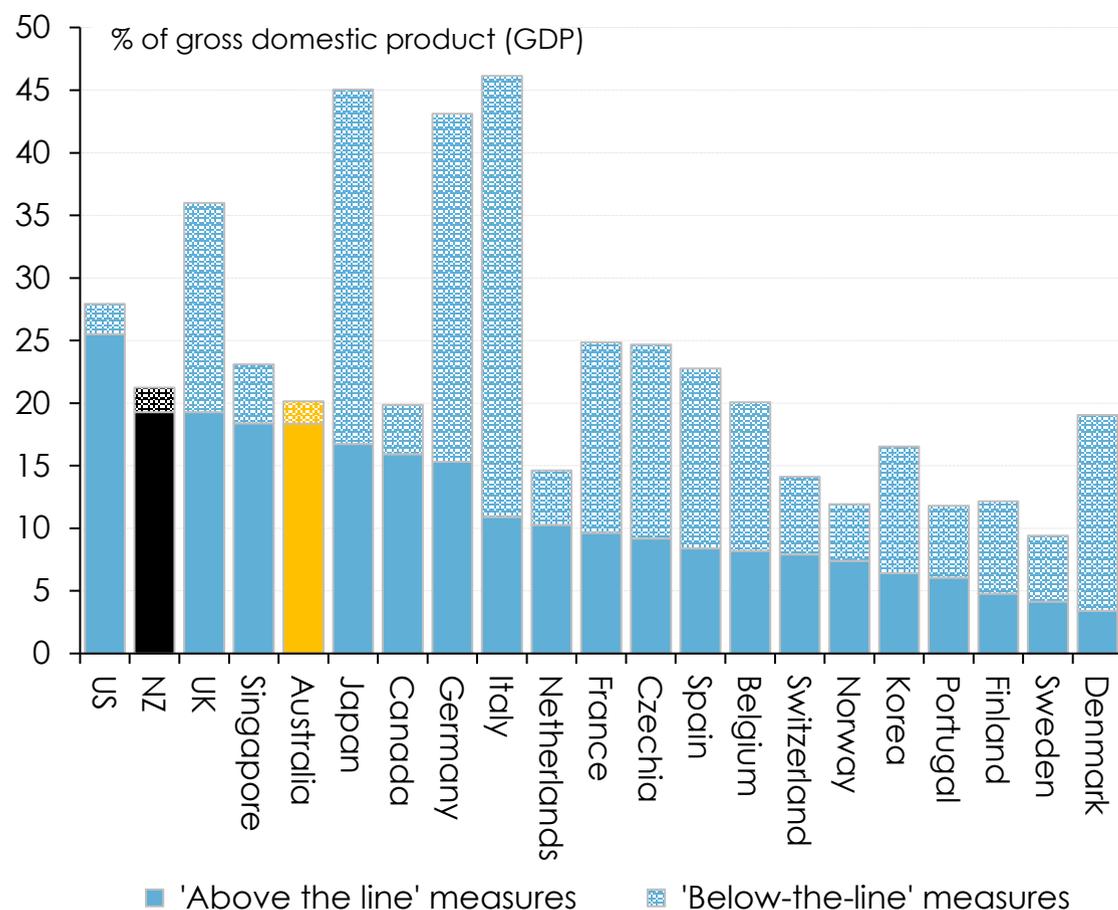


☐ Pay settings by individual arrangements (which are more sensitive to labour market conditions) made a larger contribution to wages growth in Q3

Australia's fiscal and monetary policy settings

The Government's fiscal policy response to Covid-19 now exceeds 18% of GDP – compared with the 'advanced' economy average of 11¼%

Fiscal policy responses to Covid-19 – selected 'advanced' economies

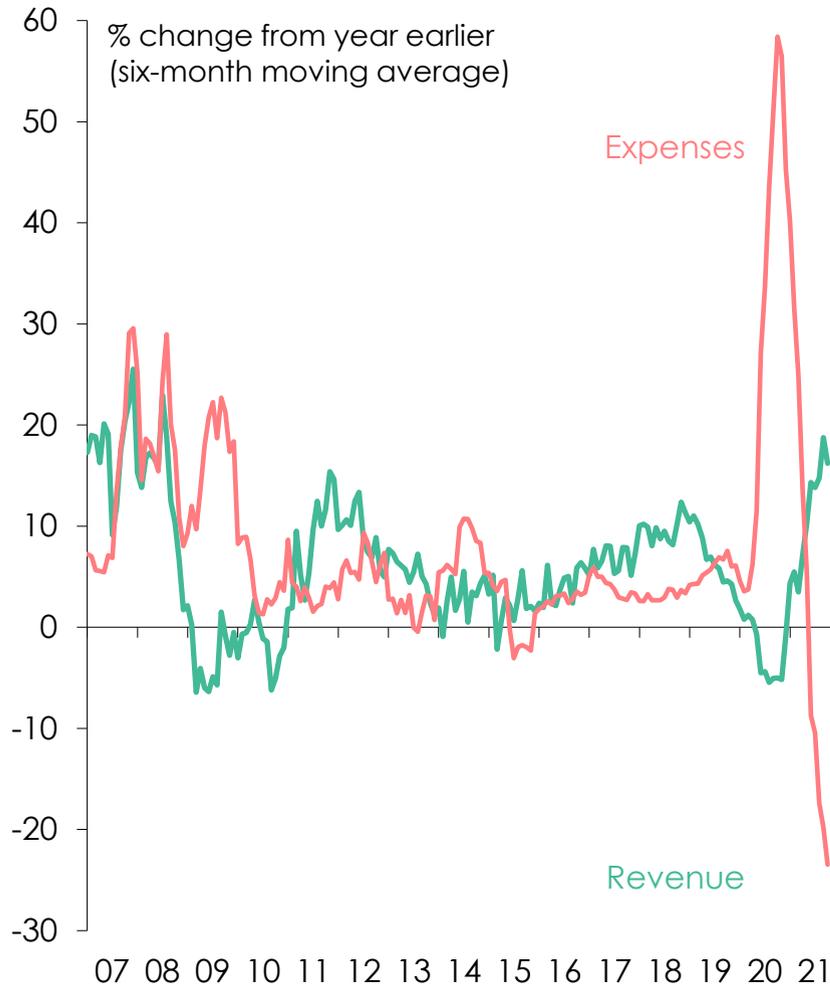


Note: 'Above the line' measures comprise additional or accelerated spending and deferred or foregone revenue. 'Below the line' measures comprise equity injections, loans, asset purchases and debt assumptions, but do not include loan guarantees or other contingent liabilities. 'DMs' means 'developed markets' (or 'advanced economies'). Data includes measures announced up until 27th September 2021. Source: IMF, [Fiscal Monitor Database of Country Fiscal Measures in Response to the COVID-19 Pandemic](#), October 2021. [Return to "What's New"](#).

- ❑ Policy measures announced by the Australian and state/territory governments in response to Covid-19 (up to end-September this year) have been equivalent to more than 18% of GDP – the fifth highest of any 'advanced' economy, according to the latest IMF estimates released in October
- ❑ In response to the protracted lockdowns in NSW, Victoria and the ACT (and shorter ones in the NT, Queensland, South Australia and Tasmania), the Federal Government paid out \$13.1bn to 2.4mn people displaced from employment by restrictions, or forced into quarantine or self-isolation
 - of which \$7.48bn was paid to people in NSW, \$4.45bn to people in Victoria, and \$345mn to people in the ACT
 - state and territory governments also made payments to businesses and individuals affected by health restrictions
- ❑ These payments have now largely ceased
 - only \$390mn was paid out in November, cf. \$3.2bn in October, \$4.4bn in September and \$5.1bn in July-August

The budget deficit is declining rapidly despite the additional payments to people affected by lockdowns, thanks to buoyant tax revenues

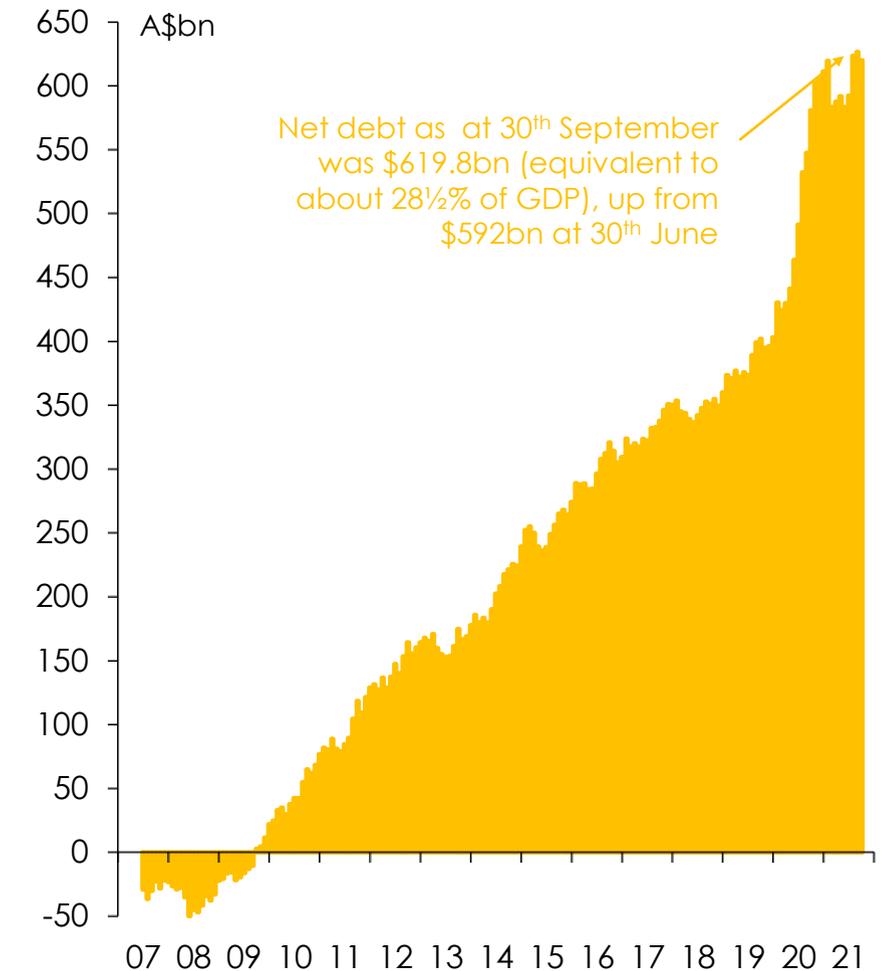
Australian Government revenue and expenses



Australian Government 'underlying' cash balance



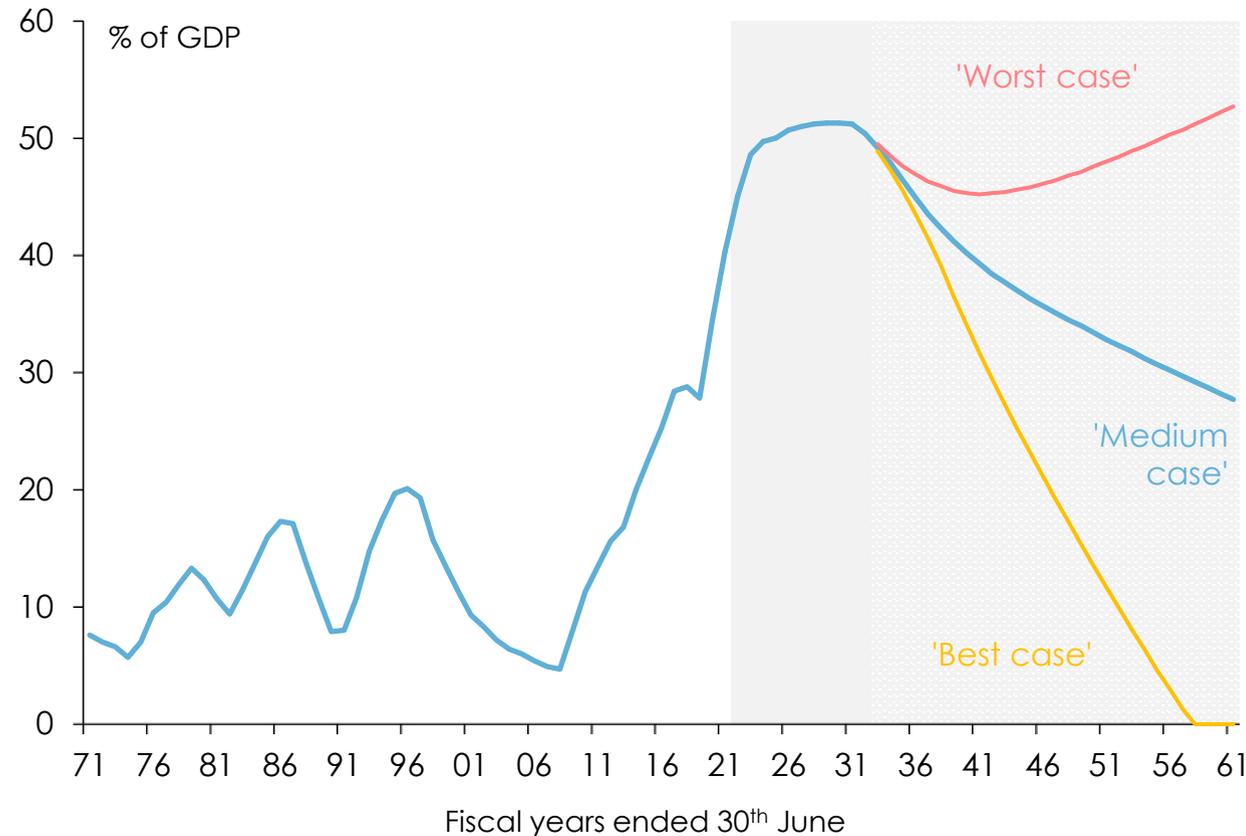
Australian Government net debt



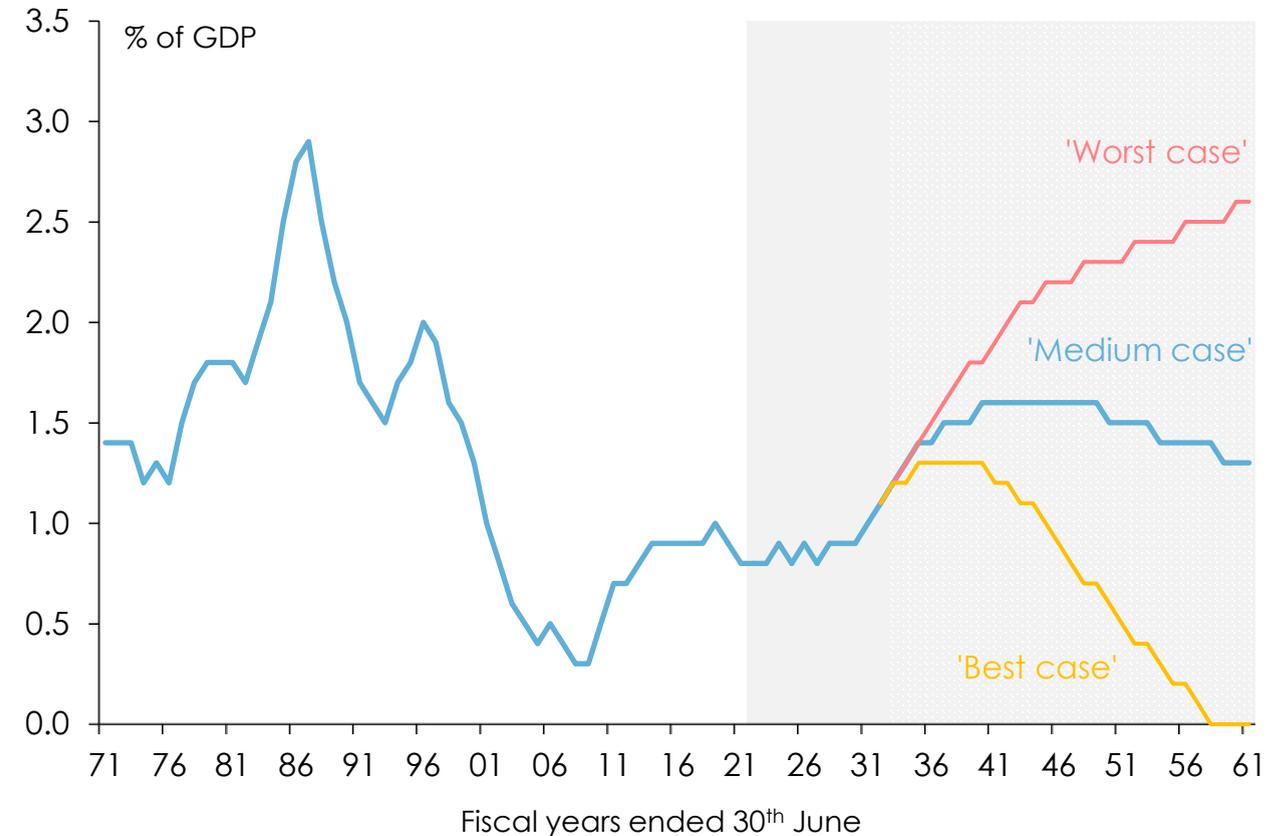
Note: Revenue and expenses are accrual accounting items. The 'underlying' cash balance is (cash) receipts minus payments, excluding transactions in financial assets for policy purposes and net earnings of the Future Fund. Net debt is total interest-bearing liabilities (government securities, deposits, loans and other borrowing) minus cash and deposits, advances paid, and (interest-bearing) loans, placements and investments. Source: Australian Government, [Final Budget Outcome 2020-21](#); Department of Finance, [Commonwealth Monthly Financial Statements](#). [Return to "What's New"](#).

Analysis by the Parliamentary Budget Office suggests the debt which the Government has incurred is sustainable under a wide range of scenarios

PBO projections of Commonwealth Government gross debt



PBO projections of Commonwealth Government interest payments

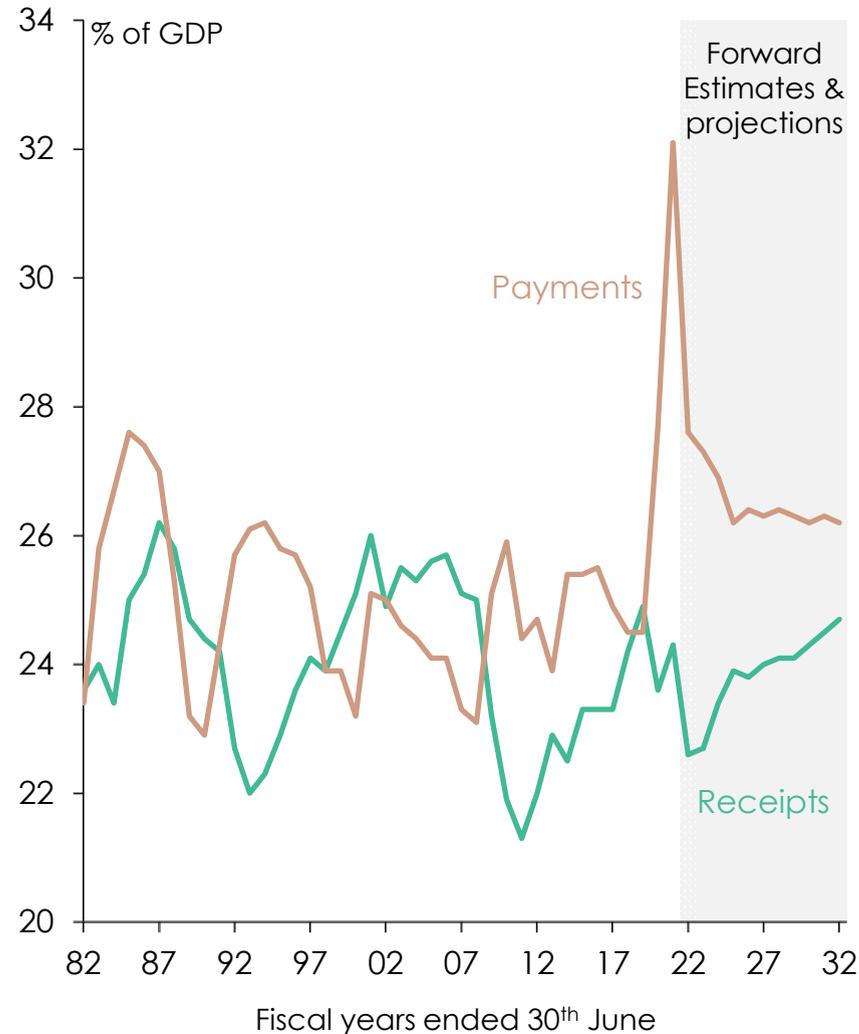


- ❑ The PBO derived projections of gross debt and interest payments over the next 40 years based on 27 combinations of different assumptions about economic growth, interest rates and the budget balance
- ❑ Under all of these scenarios (even the 'worst case'), both total debt and debt-servicing costs remain within the bounds of historical experience

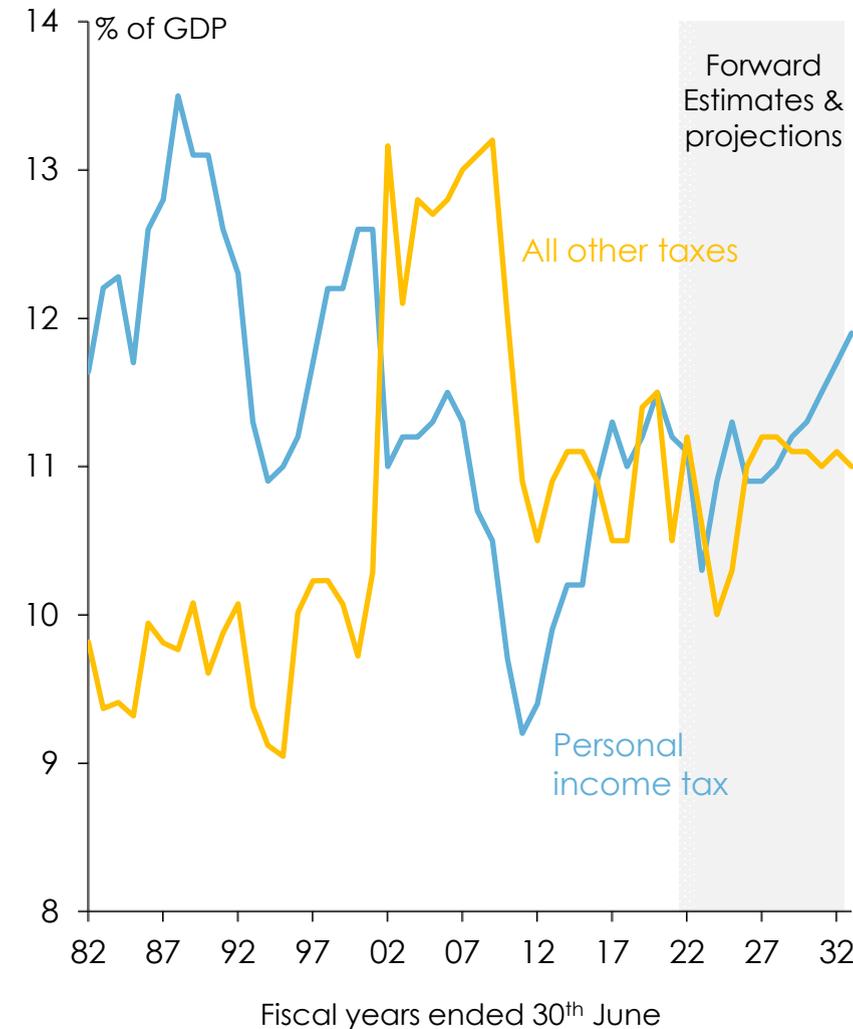
Source: Parliamentary Budget Office, [Beyond the Budget: Fiscal outlook and scenarios](#), 21st September 2021. [Return to "What's New"](#).

Australia's problem is that the Government will be relying solely on rising personal income tax collections to keep the deficit on a declining path

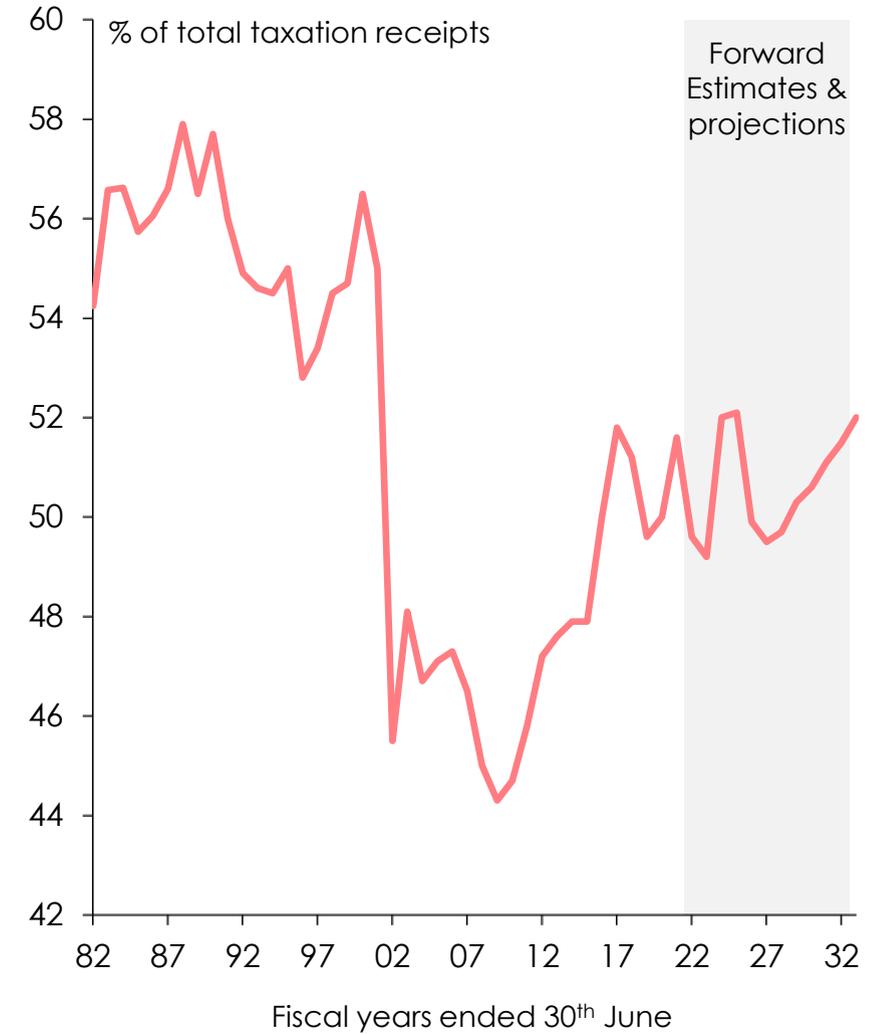
Commonwealth Government receipts and payments



Personal income tax and other tax receipts as pc of GDP

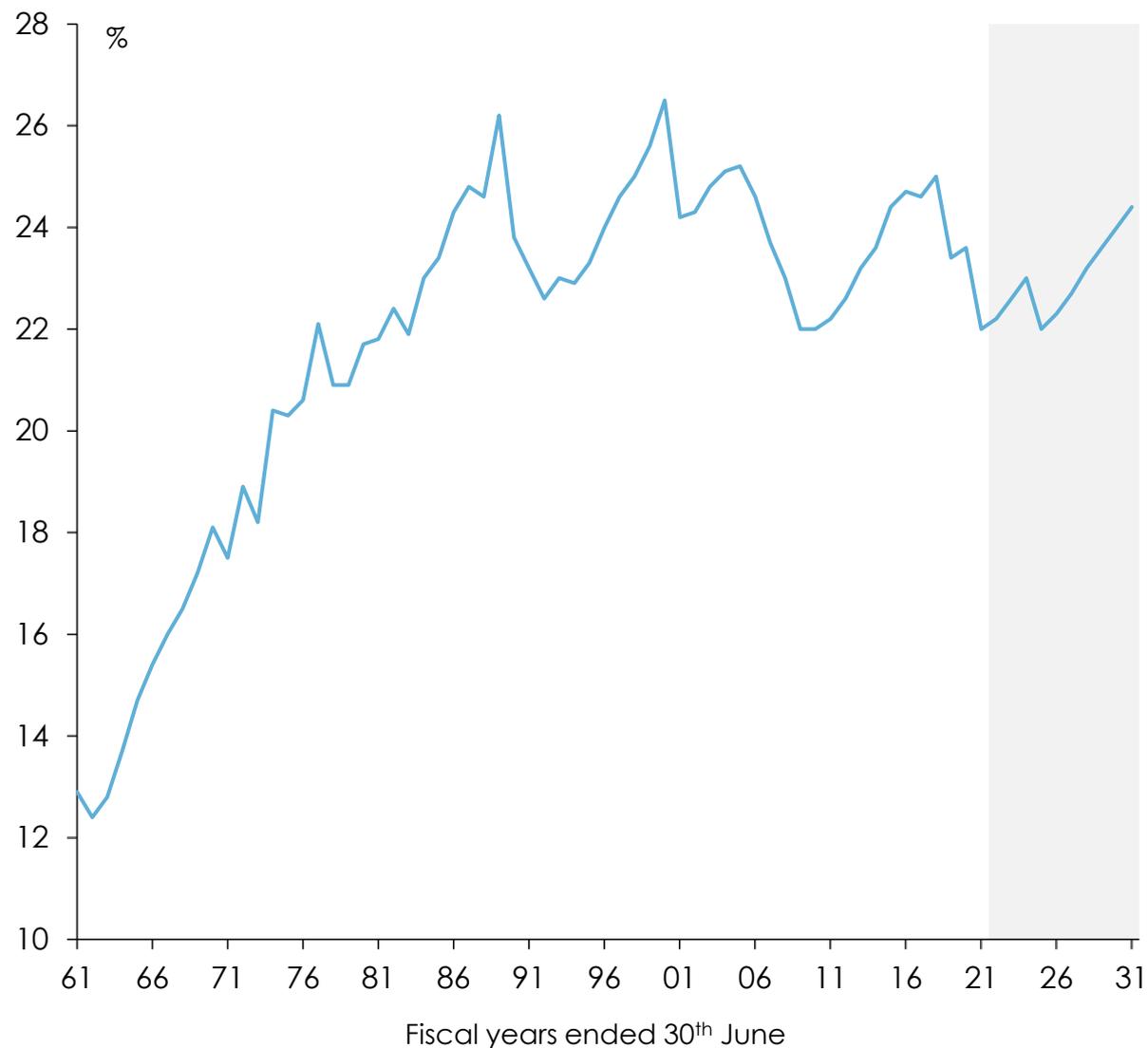


Personal income tax receipts as a pc of total tax receipts

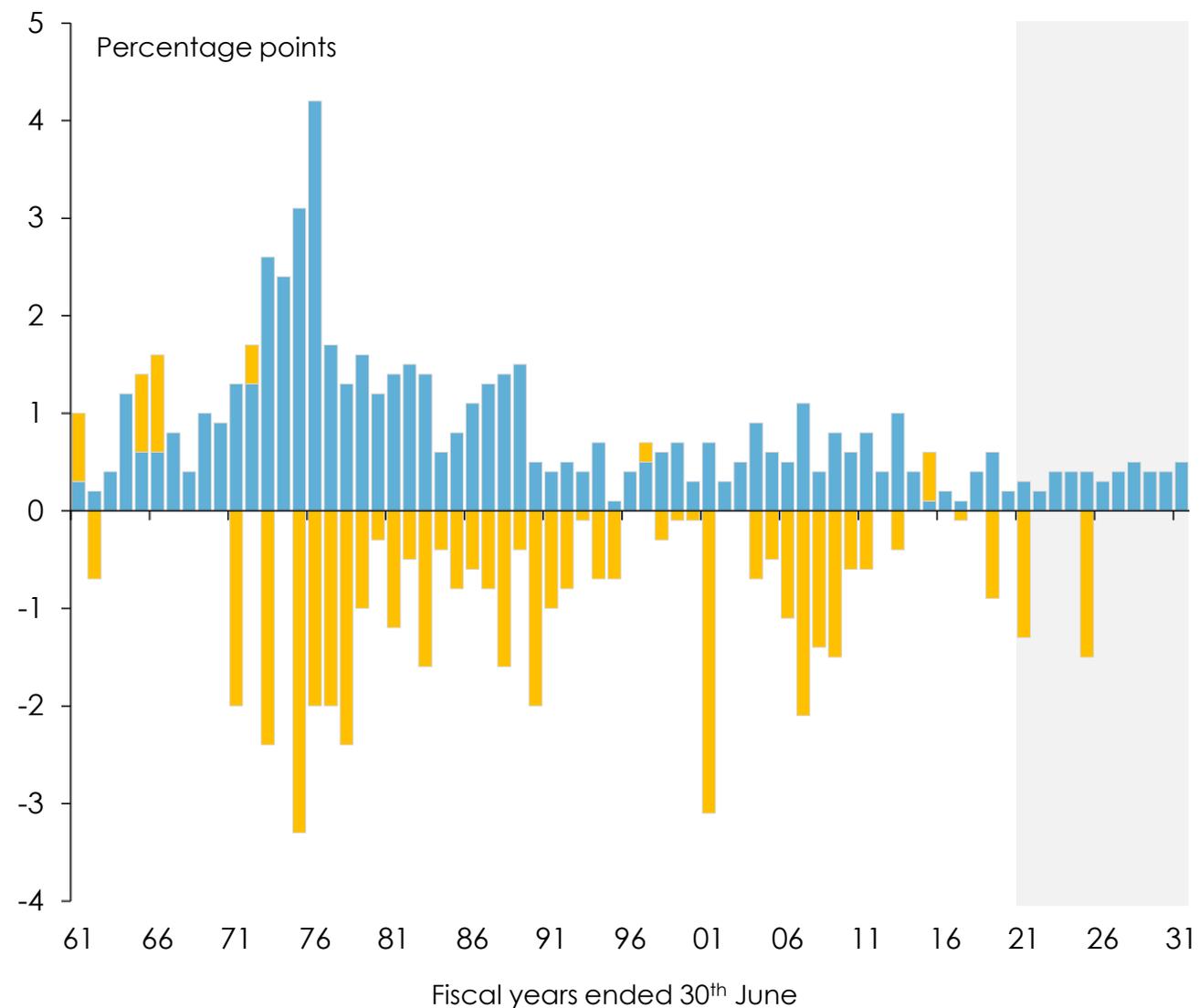


And the prospective increase in personal income tax collections *isn't* the result of a conscious policy decision, but is rather due to 'bracket creep'

Average personal income tax rate



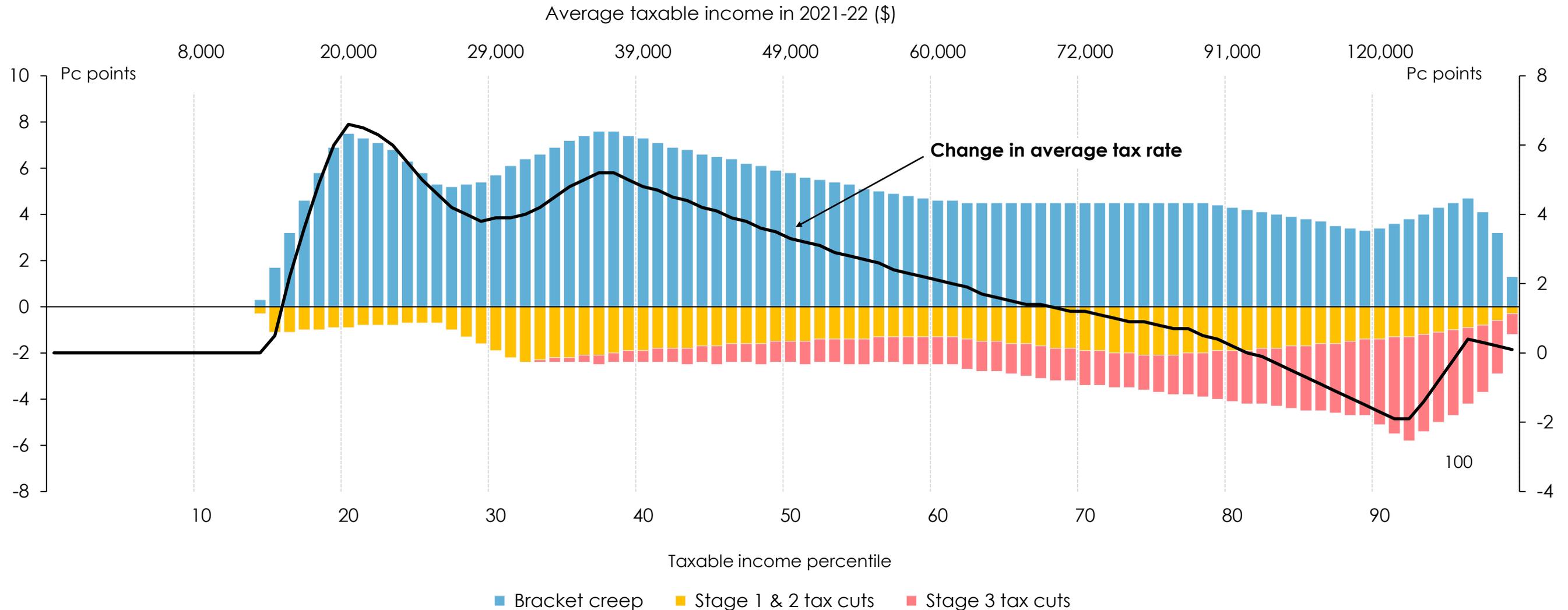
Source of changes in average personal income tax rates



Source: Parliamentary Budget Office, [Bracket creep and its fiscal impact](#), 29th September 2021. [Return to "What's New"](#).

'Bracket creep' disproportionately impacts taxpayers with incomes of between \$20,000 and \$50,000 per annum

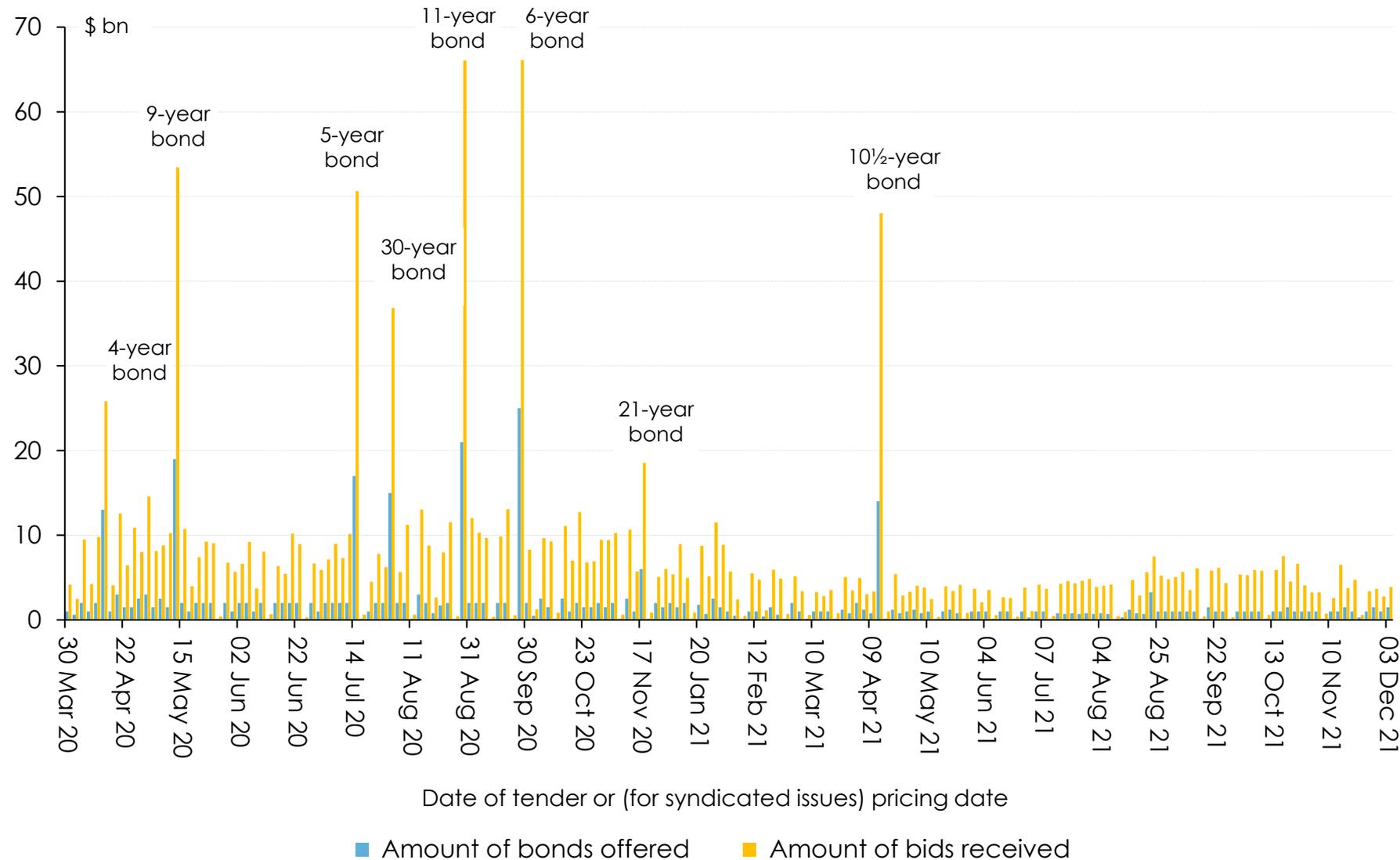
Change in average tax rates between 2021-22 and 2031-32 by taxable income percentile



Source: Parliamentary Budget Office, [Beyond the Budget: Fiscal outlook and scenarios](#), 21st September 2021. [Return to "What's New"](#).

The Government continues to find a ready appetite for its bond issuance – so far this fiscal year it's received \$203bn of bids for \$46bn of bonds

Australian government bond issuance since March 2020

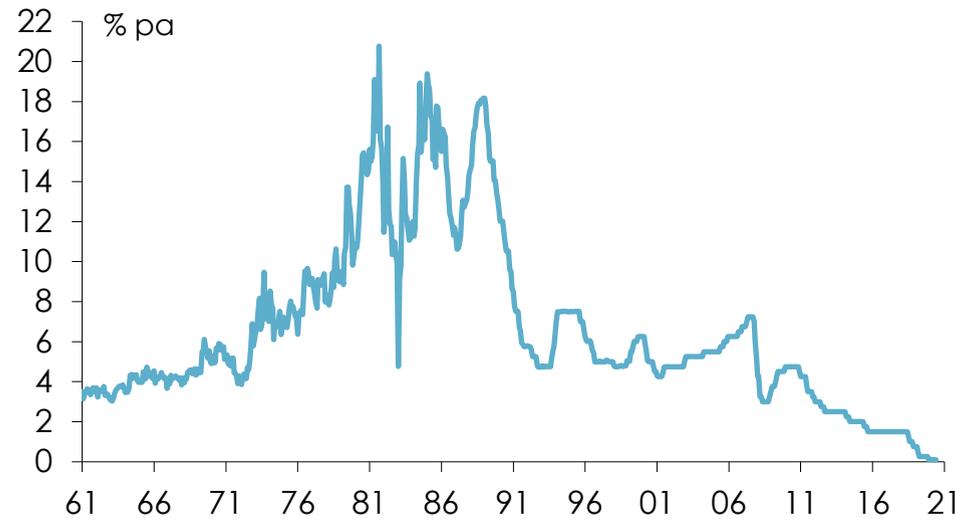


- Since 30th March 2020, the Australian Office of Financial Management has issued \$342½bn of Treasury bonds – based on the volume of bids received it could have borrowed more than \$1.29 trn with yields at most 4 bp (0.04 of a pc point) above the highest yields actually accepted
- This week the AOFM sold \$1bn of 11½-year bonds at an average yield of 1.75%, and \$1.5bn of 2½-year bonds at an average yield of 0.67%
 - it received bids totalling more than \$6.6bn for these bonds
- So far this financial year, the AOFM has received bids totalling almost \$203bn for the \$45.8bn of bonds it has offered for sale – a ‘coverage ratio’ of 4.4 times, cf. 3¾ times during the 2020-21 financial year

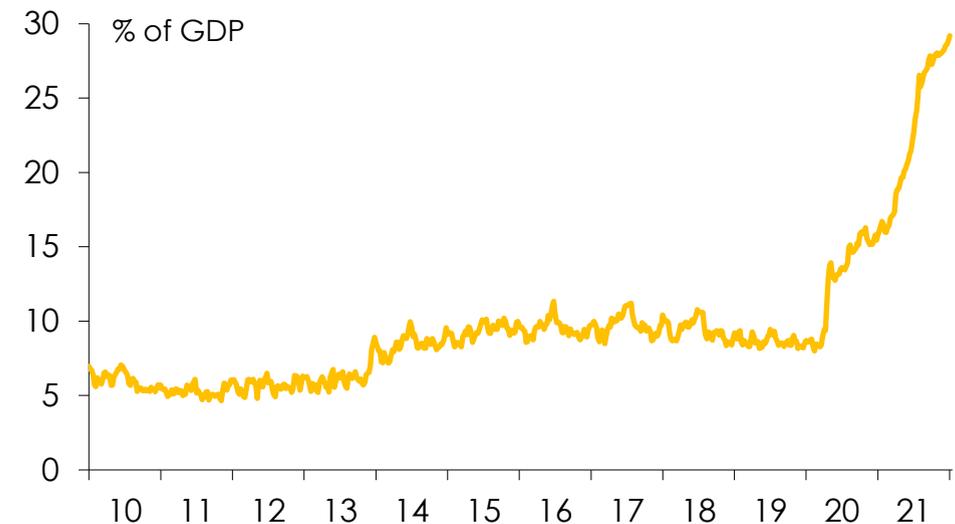
Source: Australian Office of Financial Management [data hub](#); Corinna. [Return to "What's New"](#).

The RBA Governor has again acknowledged it was possible rates could rise in 2023, but that an increase in 2022 “wasn’t warranted”

Reserve Bank cash rate



Reserve Bank assets as a pc of GDP

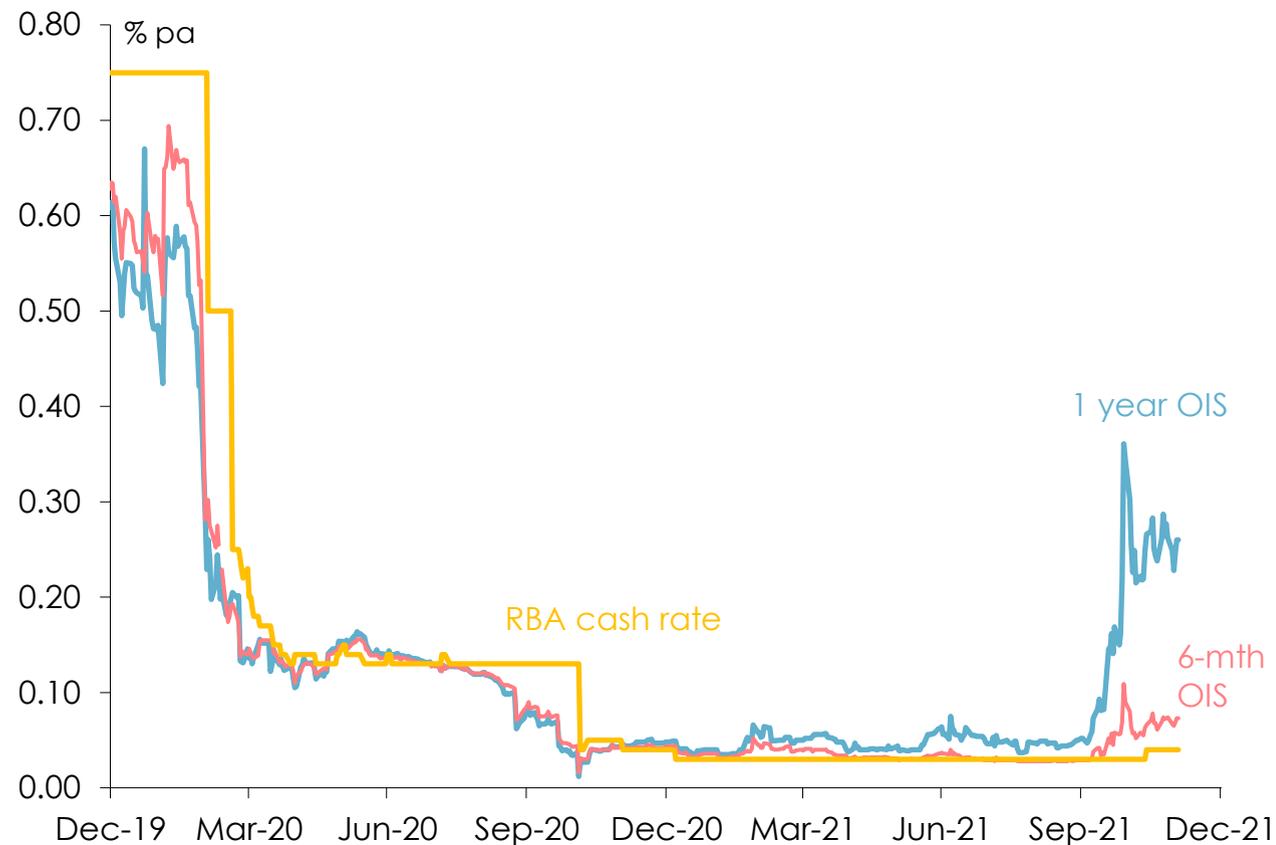


- ❑ At its November Board meeting the RBA left the cash rate at 0.10% and maintained its bond purchase program at \$4bn per week until “at least mid-February 2022” – but formally abandoned its 0.10% target for the April 2024 bond
- ❑ While the RBA sees its latest forecasts (published in the November [Statement on Monetary Policy](#) and summarized in [slide 89](#)) – including upward revisions to its forecasts for inflation – as still being consistent with the first increase in the cash rate being in 2024, it now also acknowledges that “it is also possible that an earlier move will be appropriate”
- ❑ In a [speech to financial market economists](#) last month, RBA Governor Phillip Lowe again sought to emphasize that although Australia “has experienced a lift in inflation”, it has been “less pronounced than in many other countries”
 - he emphasized that energy prices in Australia “have been trending lower for a number of years”, largely as a result of falling wholesale electricity prices, in contrast to the “large increases” experienced in the US and Europe
 - and “a more important difference”, that there is “a degree of inertia” in the wage-setting process in Australia (as a result of the multi-year wage agreements which have become common place over the past two or three decades as well as the annual minimum wage adjustment) which isn’t present in other countries
- ❑ Governor Lowe also again re-iterated that “the latest data and forecasts do not warrant an increase in the cash rate in 2022”

Source: Reserve Bank of Australia, [Statistical Tables](#) A3 and F1.1.
[Return to "What's New"](#).

Money and bond markets are still pricing at least one increase in the RBA's cash rate next year, despite the RBA's view that it's "not warranted"

Overnight index swap rates



Yield curves

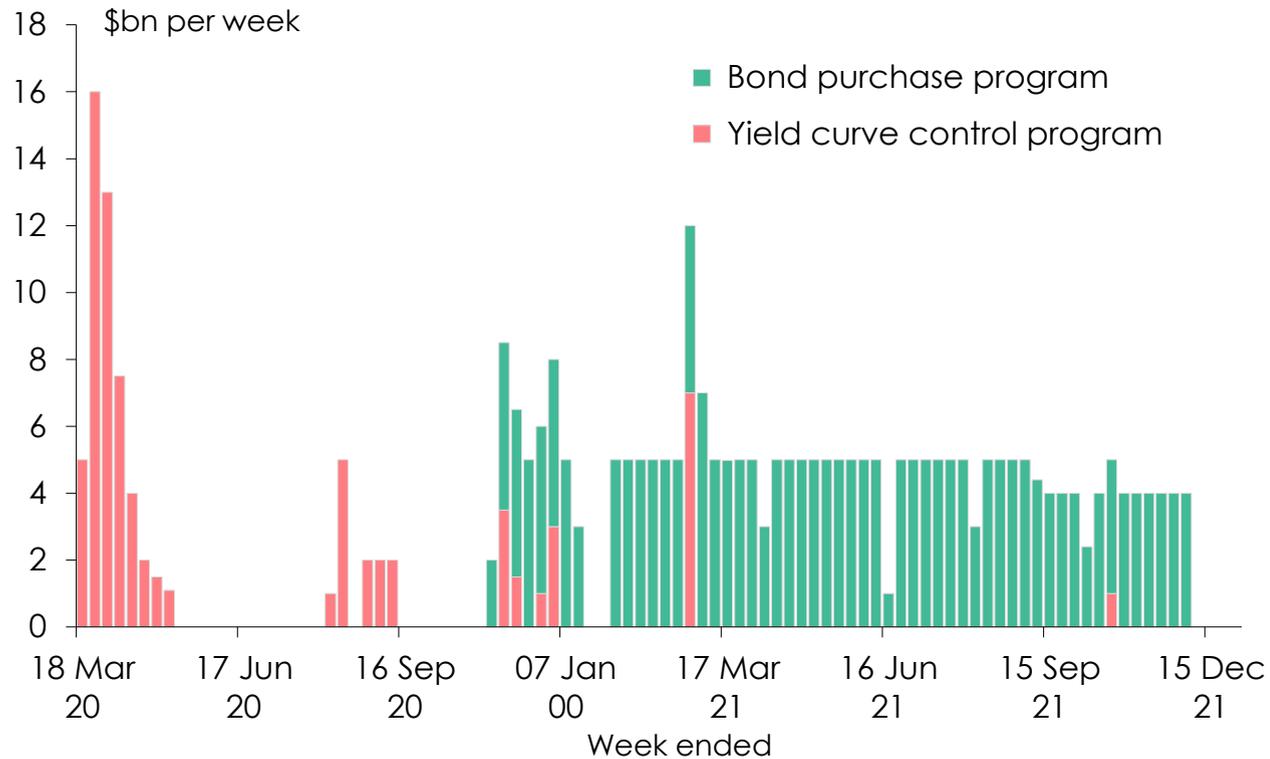


- ❑ Short-term money markets are still pricing at least one increase in the RBA cash rate next year, despite the RBA's insistence that such a move "isn't warranted" ([slide 89](#)) – but they're no longer giving much credence to the chance of two rate increases (as they were at the end of October)

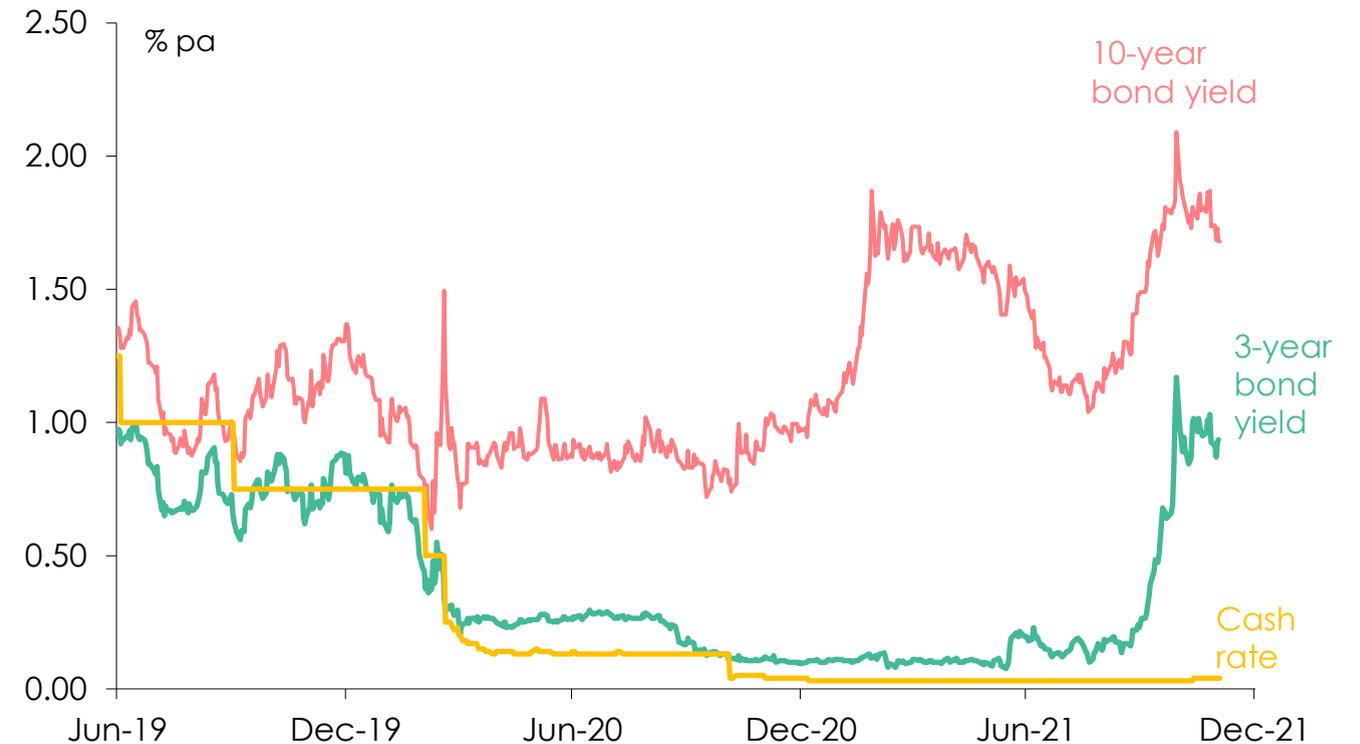
- ❑ However 2-year bond yield pricing suggests that markets expect that there will be at least one further rate increase in 2023, after the one priced for next year

Longer-term Australian bond yields fell in line with overseas markets this week on omicron concerns, but shorter-dated yields were little changed

RBA open market bond purchases



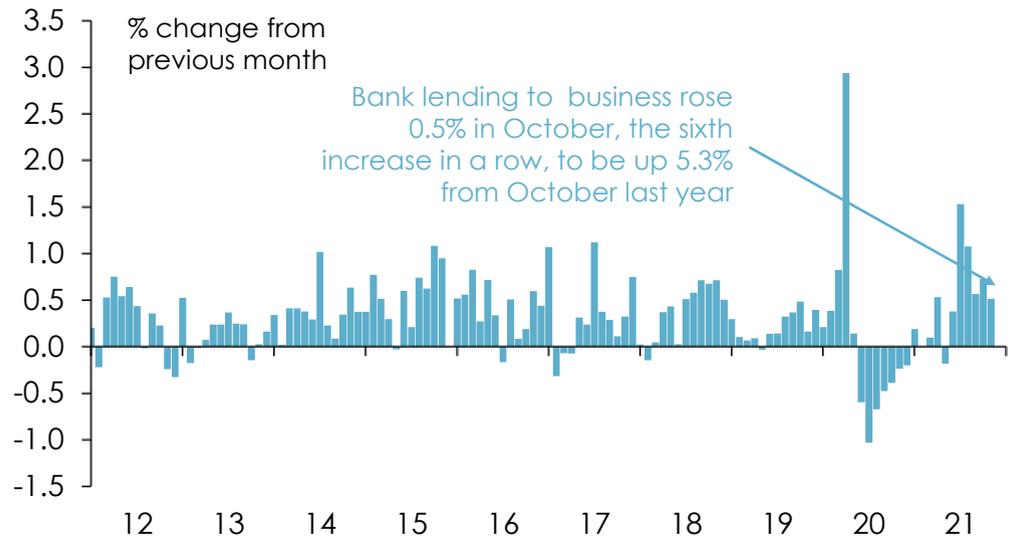
Interest rates



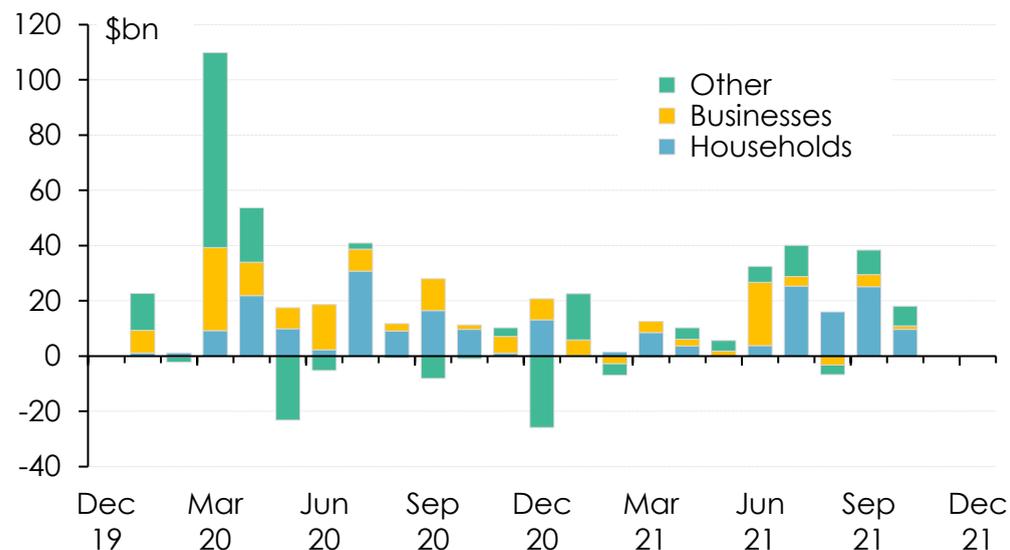
- ❑ Longer-term Australian bond yields declined this week in line with movements in overseas bond markets prompted by 'safe haven flows' triggered by concerns at the spread of the 'omicron variant', with the 10-year yield dropping 6bp to 1.68%, the lowest since mid-October (before the release of the Q3 CPI), although 3- and 5-year yields were little changed from where they were on Friday in New York (having fallen there after the Australian market had closed)
- ❑ The RBA again bought \$4bn of bonds under its Bond Purchase Program – bringing its cumulative purchases to just under \$250bn (or \$328bn including purchases under the 3-year yield target program which the RBA formally abandoned at its November Board meeting)

Banks have played an important role in assisting borrowers cope with shutdowns, and have been swamped with deposits

Business credit outstanding



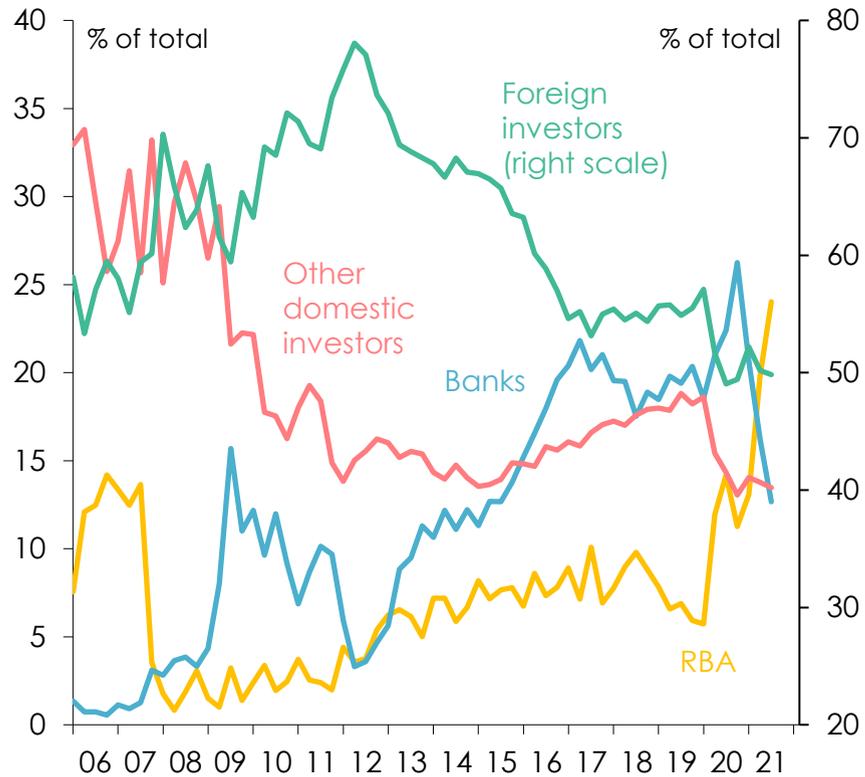
Monthly change in bank deposits



- ❑ Banks have cut interest rates on small business loans by more than the official cash rate since June 2019 (when the RBA started cutting rates again)
- ❑ Banks have made credit readily available when needed – in the early stages of the pandemic and during the most recent lockdowns
- ❑ Banks extended ‘repayment holidays’ to business and home mortgage borrowers who requested it
 - in May last year, 11% of mortgage borrowers and 18% of SME borrowers were deferring debt service payments
- ❑ Bank deposits have swelled by \$442bn (21%) since February last year as customers have ‘parked’ precautionary loan drawings, additional savings and withdrawals from superannuation funds
 - almost all of this has gone into transaction deposits which don’t pay interest – so banks haven’t drawn as much as might otherwise have been expected from the RBA’s Term Funding Facility
- ❑ Household deposits have risen by \$218bn (22%) since last February – including by \$67bn during the September quarter most of which NSW and Victoria spent in lockdown – while business deposits have risen by \$143bn (24%)

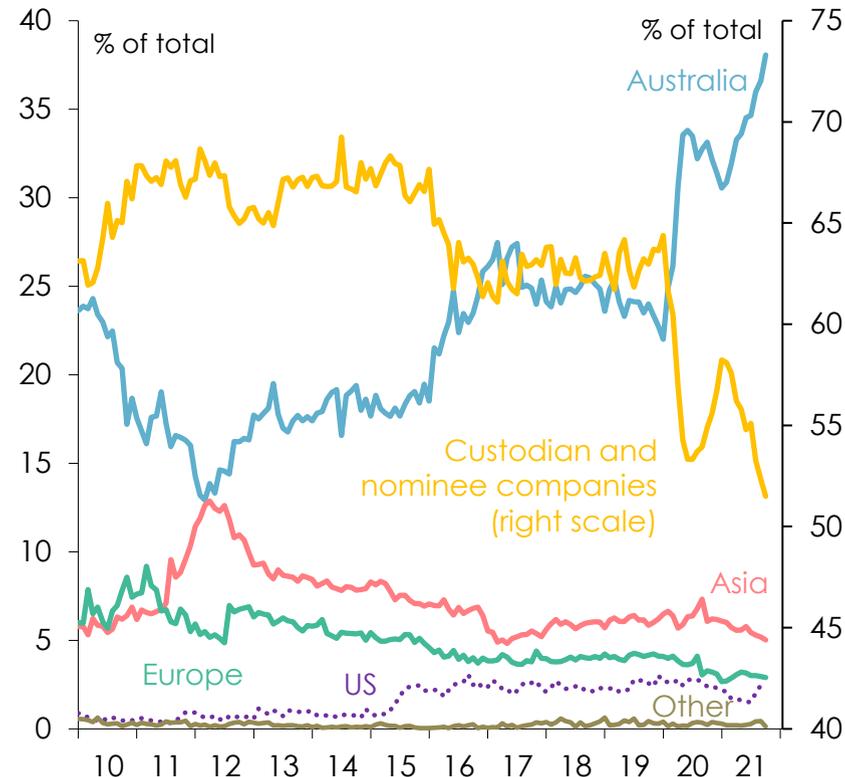
The RBA has (indirectly) absorbed almost two-thirds of the increase in government debt since the end of 2019, banks 2% and foreigners 31%

Holders of Australian Government bonds



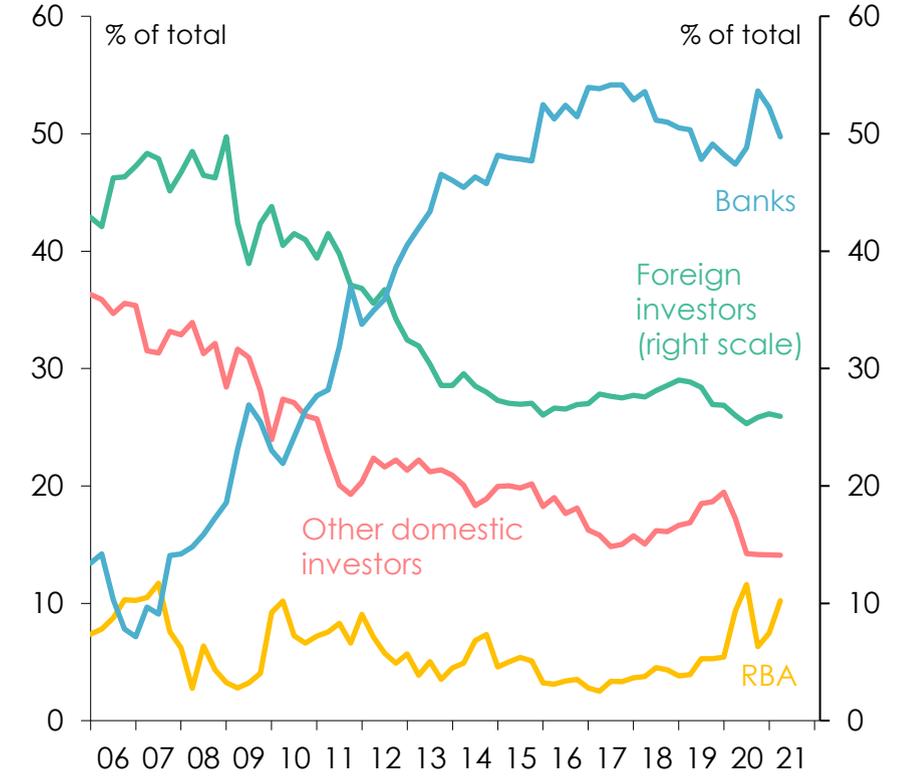
Australian Gov't bonds on issue have increased by \$237bn since the end of 2019 – of which \$173bn (73%) have been absorbed by the RBA, and \$72bn by foreigners, while banks have reduced their holdings by \$7bn

Nationality of Australian Government bond holders



Domestic holdings of Australian Gov't bonds (including RBA) rose by \$53bn over the 12 months to September while identified foreign holdings fell \$8½bn – and unidentified holdings (which include many foreigners) fell by \$9bn

Holders of State and Territory Government bonds

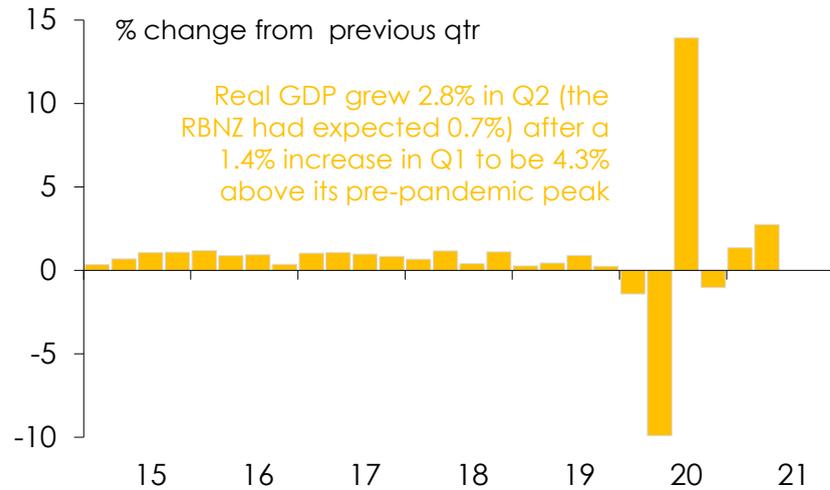


State & Territory Gov't bonds on issue increased have increased by \$107bn since the end of 2019, of which \$45bn have been absorbed by banks, \$40bn by the RBA and \$29bn by foreigners

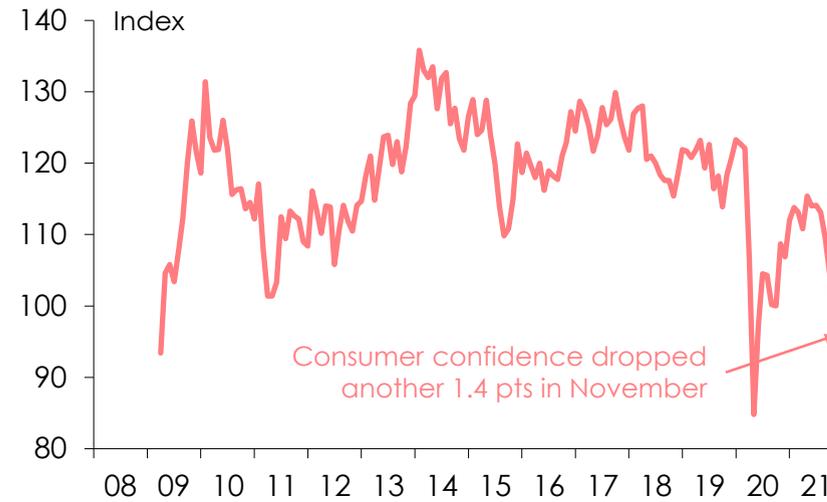
New Zealand

Business and consumer confidence have fallen after October's first rate increase, the sharp rise in inflation in Q3, and NZ's protracted lockdown

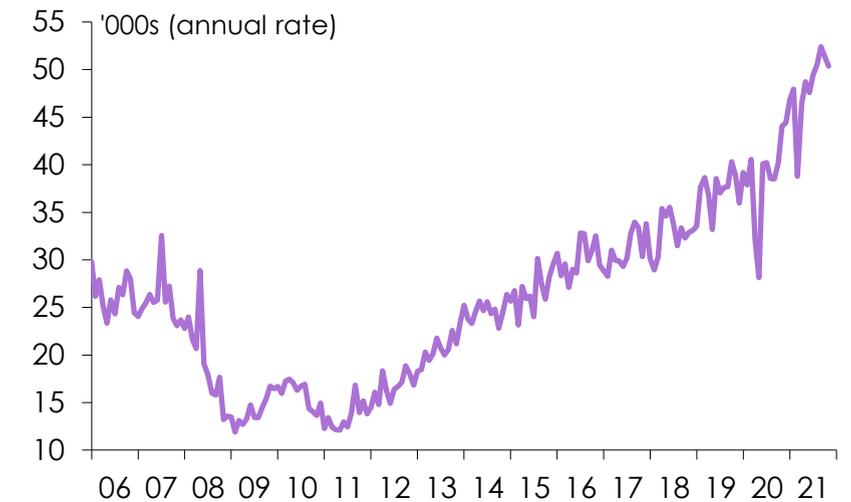
Real GDP



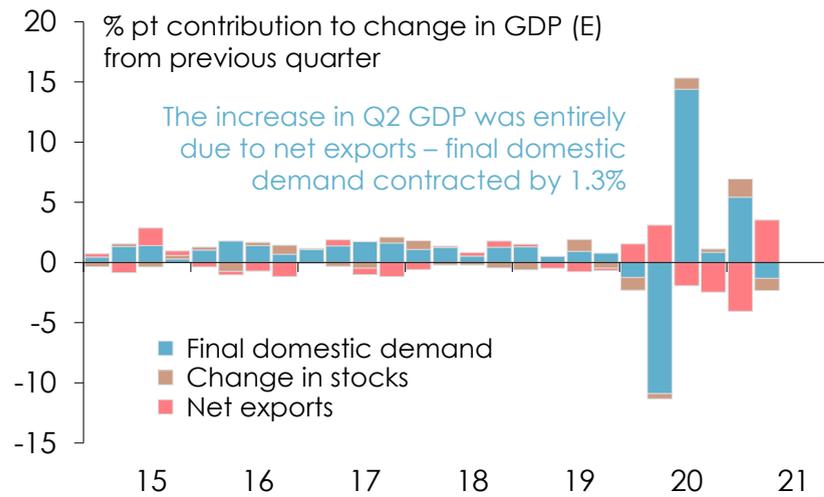
Consumer confidence



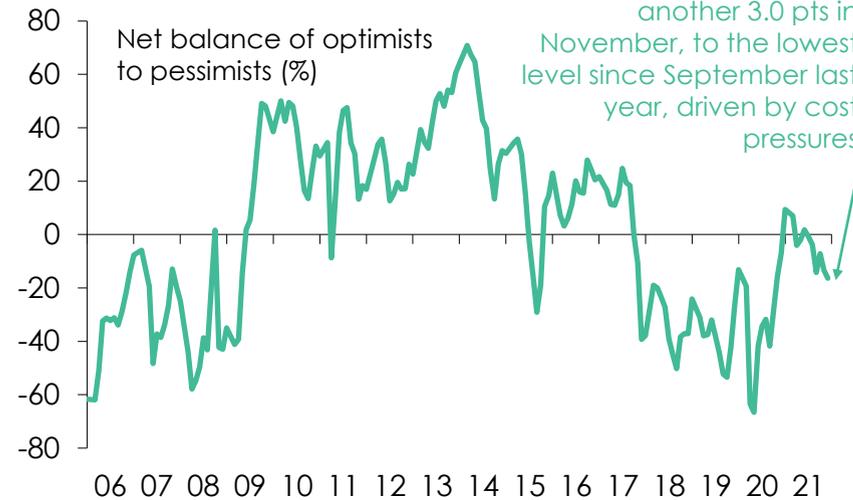
Dwelling 'consents' (permits)



Contributions to GDP growth



Business confidence



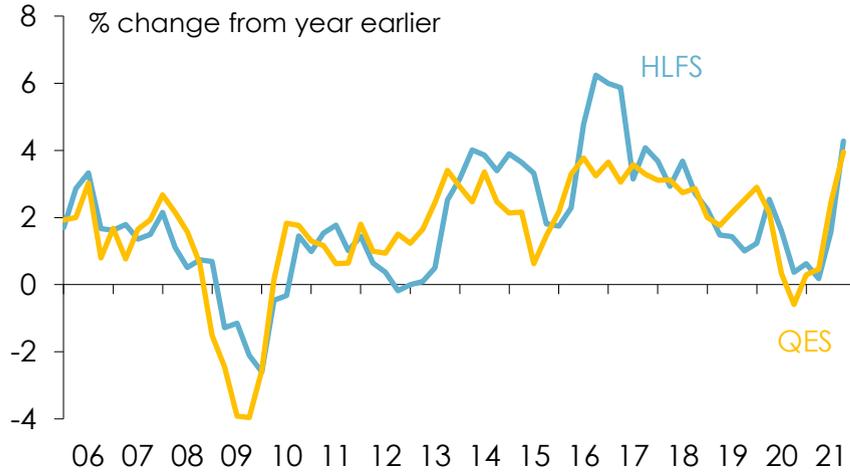
Population growth



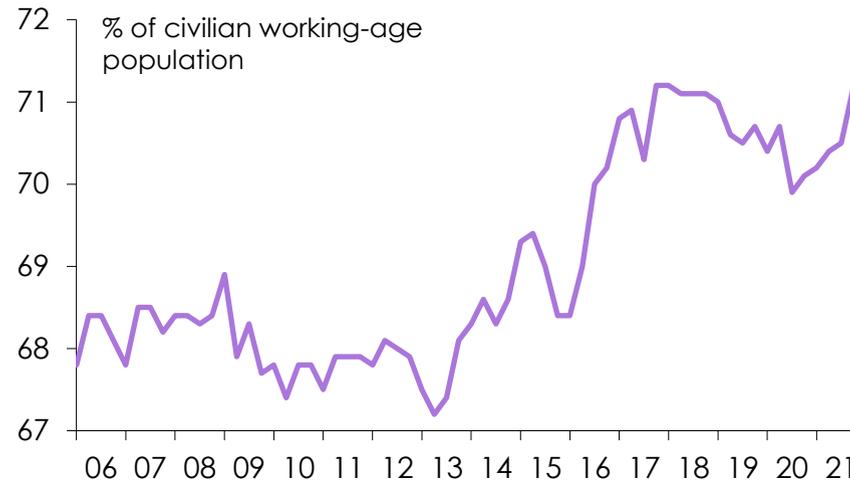
Note: New Zealand uses GDP(P) as its preferred measure of GDP. September GDP data will be released on 16th December.
Sources: [Statistics NZ](#); ANZ-Roy Morgan; [ANZ Bank NZ](#). [Return to "What's New"](#).

Employment rose another 2.0% in Q3, to be 3.2% above its pre-pandemic peak, cutting the unemployment rate to 3.4%, the lowest since Q4 2007

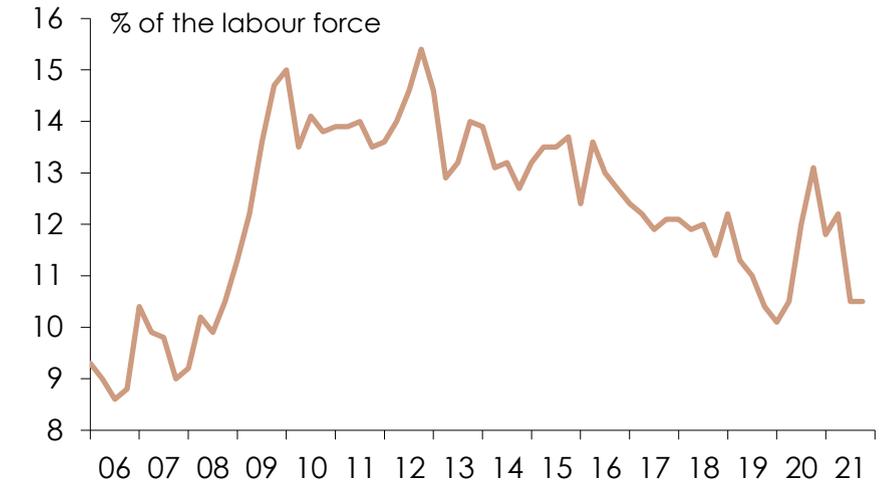
Employment



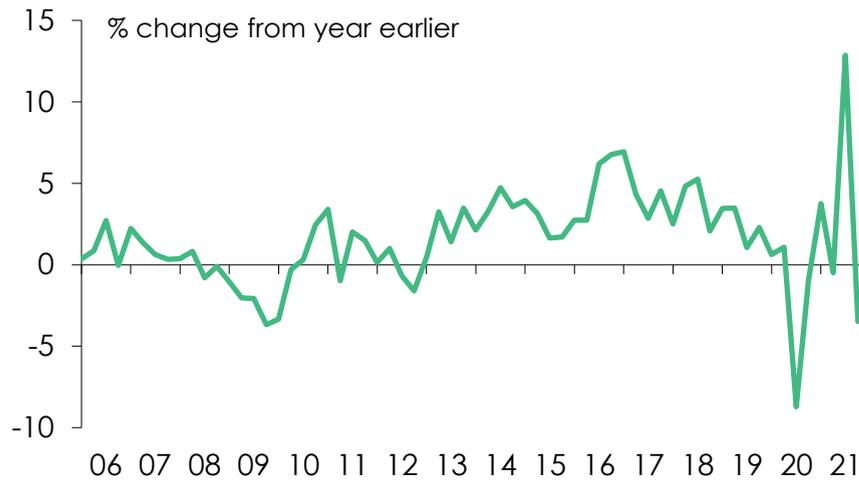
Labour force participation rate



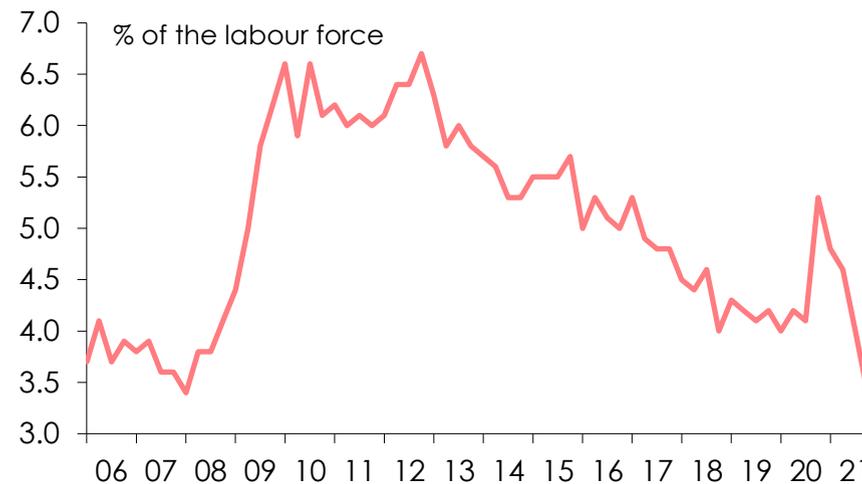
Labour force under-utilization rate



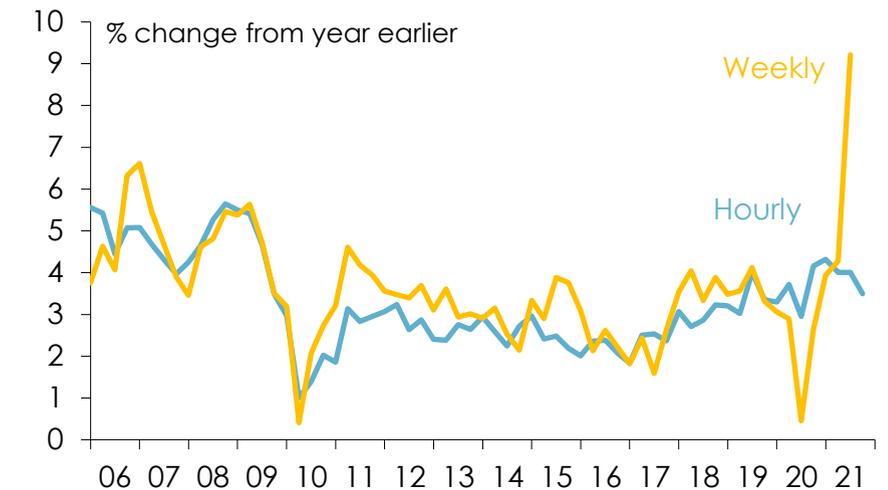
Hours worked



Unemployment rate



Average weekly earnings

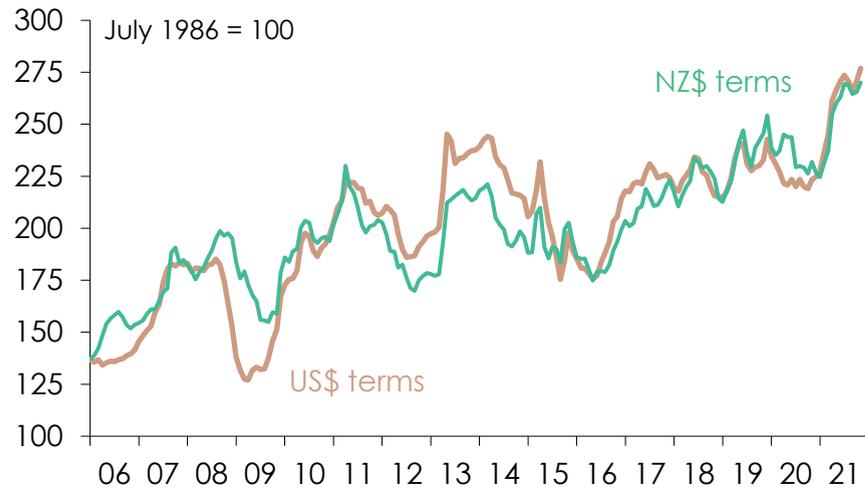


Note: New Zealand labour force data are only published quarterly. There are two 'headline' series on employment – the household labour force survey (HLFS) which counts the number of people in employment during the quarter; and the quarterly employment survey (QES), which counts the number of 'filled jobs' at 'economically significant enterprises' in the 'reference week' in the middle of the quarter, excluding the self-employed and those working in agriculture and fishing. The labour force under-utilization rate measures those who are unemployed plus those who are employed part-time but working fewer hours than they are able and willing to work.

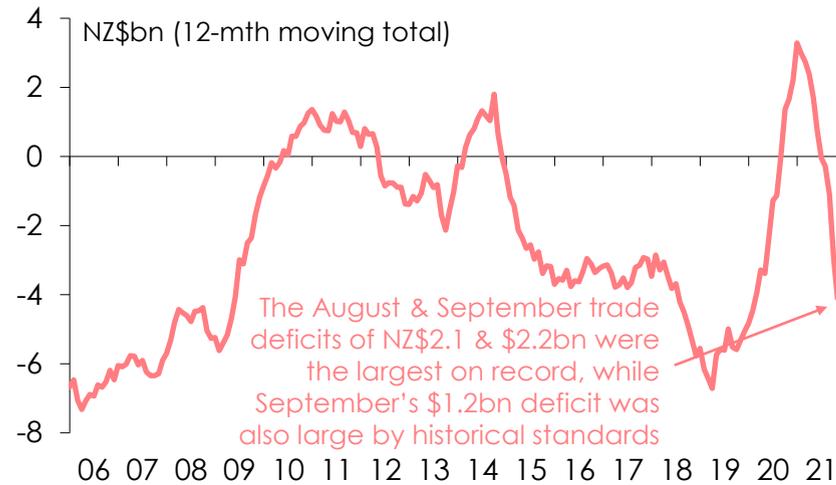
Source: [Statistics NZ](#). September quarter data will be released on 3rd November. [Return to "What's New"](#).

Although New Zealand's export commodity prices are at a record high, unlike Australia its current account has remained in deficit

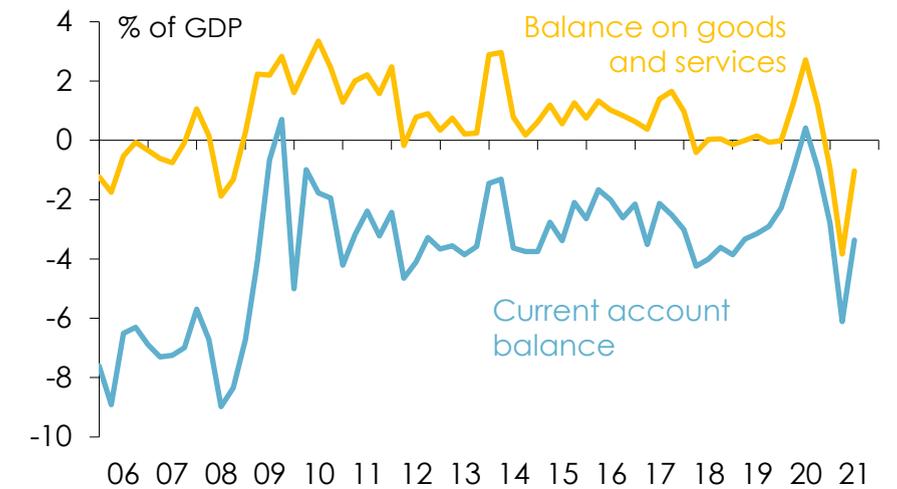
Export commodity prices



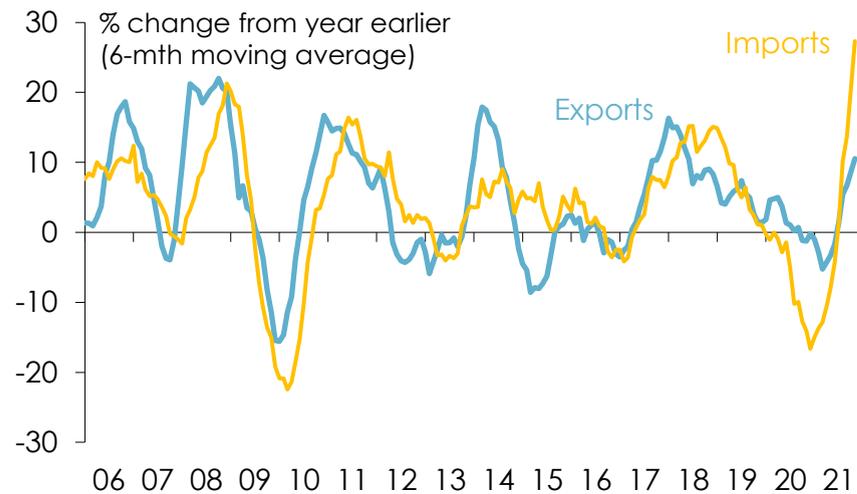
Merchandise trade balance



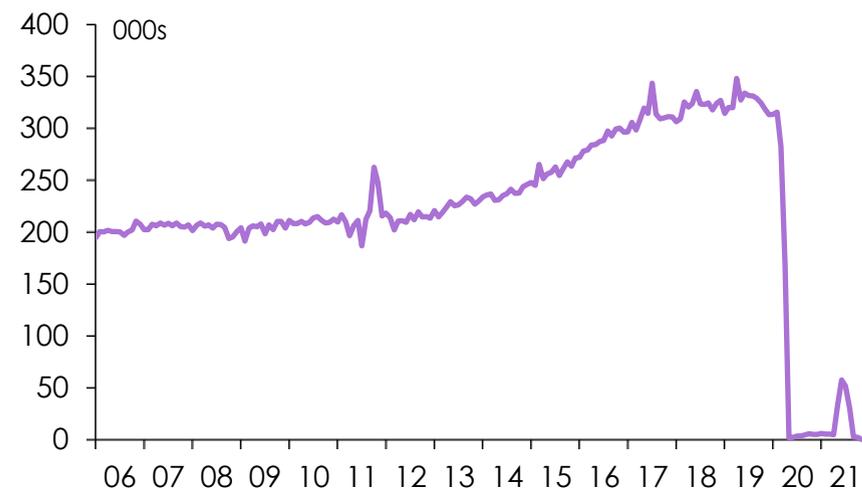
Balance of payments



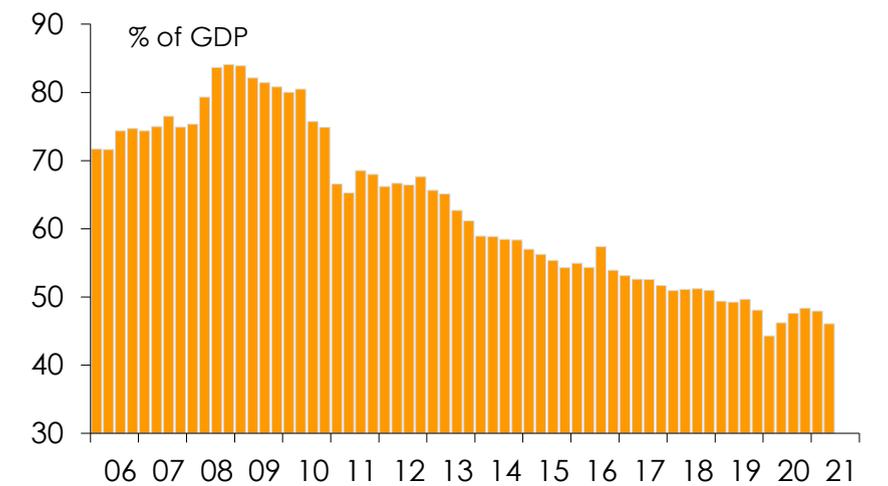
Merchandise exports and imports



Overseas visitor arrivals



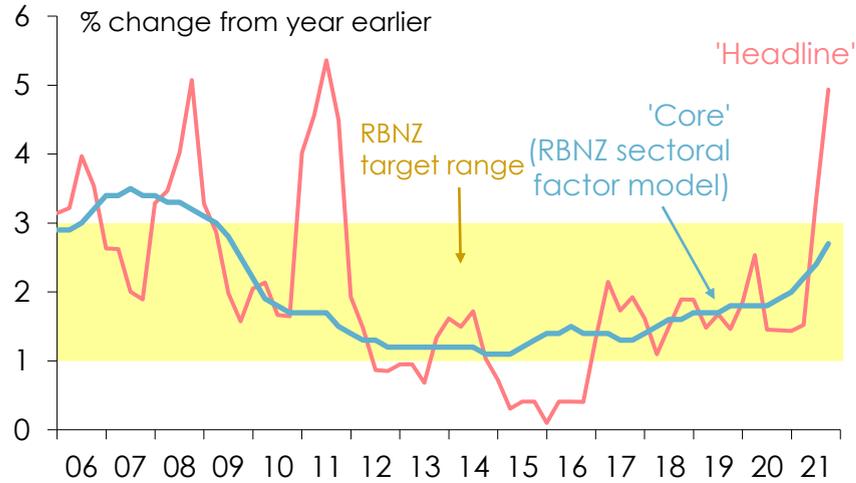
Net foreign debt



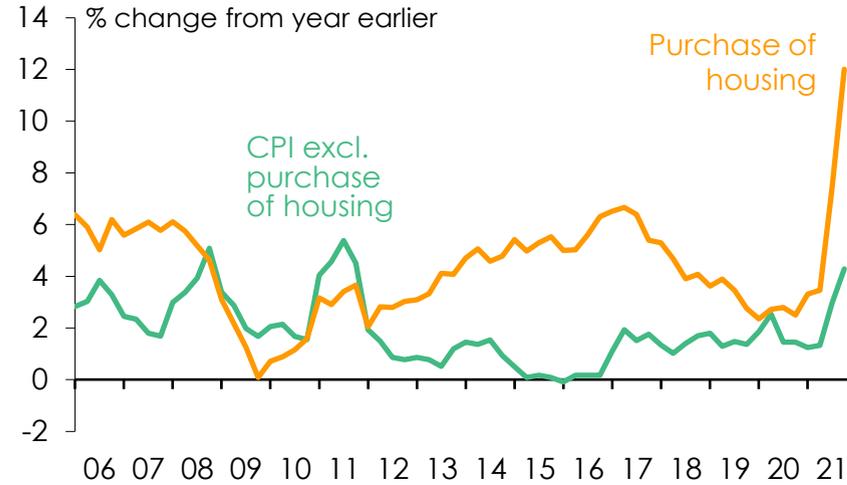
Note: latest merchandise trade data is for October; November data will be released on 20th December; latest balance of payments and net foreign debt data is for the March quarter; September quarter data will be released on 15th December. Sources: [ANZ Bank](#); [Statistics New Zealand](#). [Return to "What's New"](#).

The Q3 CPI was a 'shocker', rising 2.2% (cf. the RBNZ's expectation of 1.4%), pushing the annual 'headline' inflation rate to 4.9%

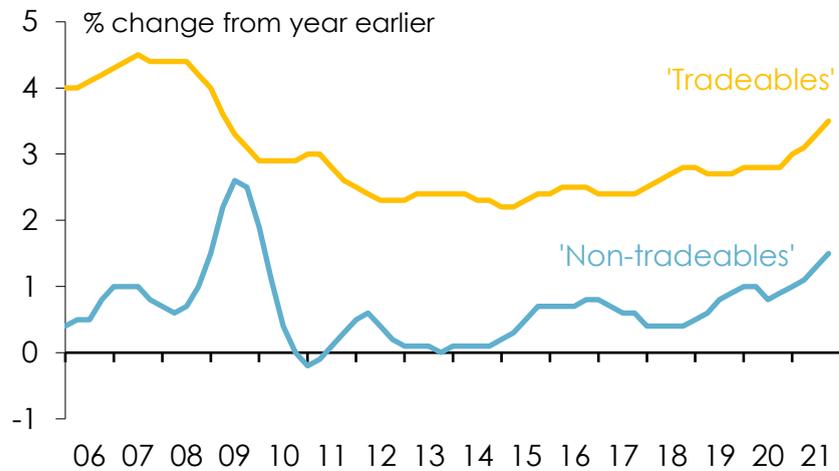
Consumer prices



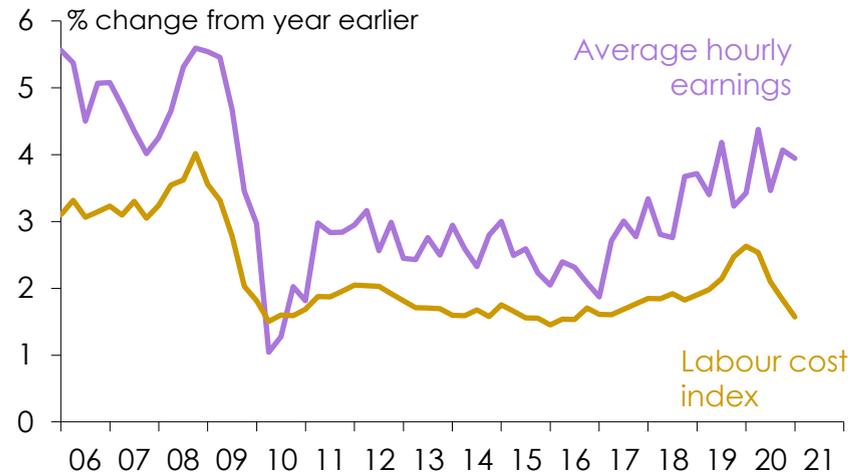
Housing costs in the CPI



Components of 'core' inflation



Labour costs



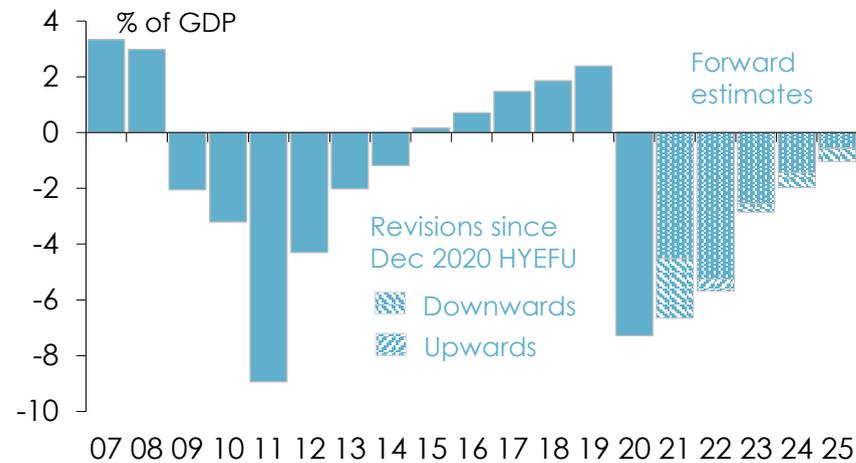
- ❑ The CPI rose 2.2% in Q3, the largest q-o-q increase since Q1 2011, after a 1.3% increase in Q2, pushing the annual 'headline' inflation rate up to 4.9%, the highest since Q2 2011 (after GST was raised from 12½% to 15%)
- ❑ Six components representing 18¼% of the CPI basket accounted for 66% of the increase in the CPI in Q3
 - a 4.5% increase in new housing costs alone contributed 0.4 pc pts to the Q2 increase (19% of the total), and 1.0 pc pt to the annual rate (21% of the total)
 - other significant contributors were vegetables (up 18.7%), petrol (6.5%), council rates (7.1%), international air fares (6.6%) and games & toys (18.4%)
- ❑ The annual rate of 'core' inflation as measured by the RBNZ's 'sectoral factor model', rose to 2.7% in Q3, the highest since Q1 2009, from 2.2% in Q2
- ❑ The RBNZ had been expecting a 1.4% increase in the CPI in Q3

Sources: [Statistics NZ](#); Reserve Bank of New Zealand. December quarter CPI will be released on 27th January 2022.

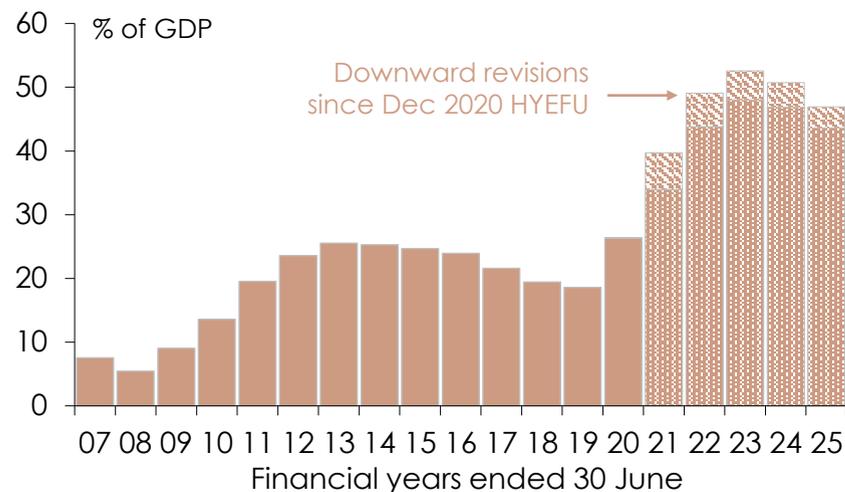
[Return to "What's New"](#).

The 2021 NZ Budget uses gains from an improved economic outlook to fund additional spending as well as a slightly improved 'bottom line'

NZ government 'operating balance excluding gains & losses' ('OEBGAL')



NZ 'core Crown debt'

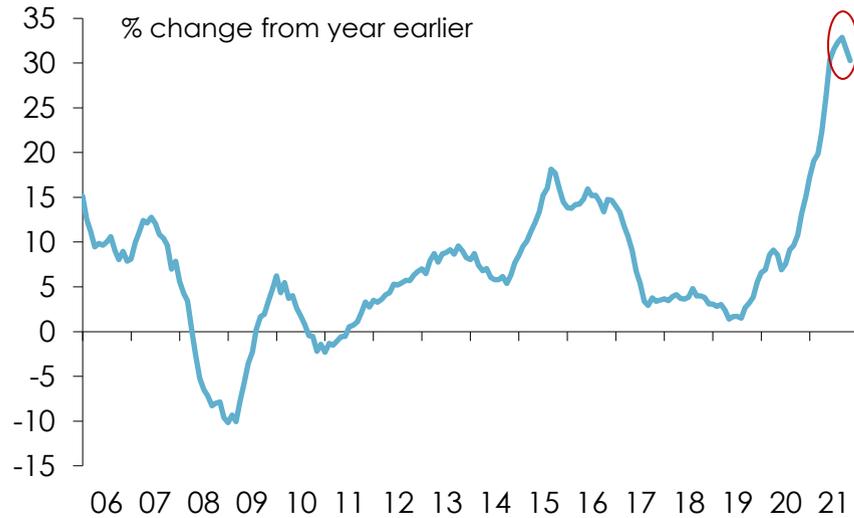


- ❑ As was also the case in Australia, the 2021-22 New Zealand Budget presented by Finance Minister Grant Robertson in May benefited from a much stronger economic performance than had been anticipated in last year's Budget, or in last December's Half-Year Economic & Fiscal Update (HYEFU)
 - Treasury now expects the NZ economy to have grown 2.9% in 2020-21 (cf. 1.5% in HYEUFU) and by 3.7% pa over the following two years (cf. 3.1% in HYEUFU)
 - unemployment is expected to fall to 5% in June 2022 and 4.2% by June 2024, instead of increasing to 6.8% in June 2022 and then falling to 4.7% by June 2024
- ❑ The Budget applies most of the revenue windfall from this improved economic outlook (and transfers from unspent allocations to the \$50bn Covid Response and Recovery Fund established last year) to fund new spending initiatives totalling almost NZ\$20bn over the five years to 2024-25
 - of which the most significant are increases in benefit payments of up to \$55/week (consciously reversing cuts made in the 1990 Budget) and increased spending on health and housing
- ❑ Nonetheless the Budget also reduced the 'OBEGAL' and 'residual cash' deficits for the five years to 2024-25 by \$9bn
 - the 'OBEGAL' deficit is forecast to decline from 2019-20's peak of 7.3% of GDP to 4.5% of GDP in 2020-21, increase slightly to 5.3% of GDP in 2021-22, then decline to 0.6% of GDP in 2024-25 – and to return to surplus by 2026-27
- ❑ As a result 'core Crown net debt' is expected to peak at 48% of GDP in June 2023 (down from 52.6% at HYEUFU) and then decline to 43.6% of GDP by June 2025, and longer term to drop below 20% of GDP in 2034

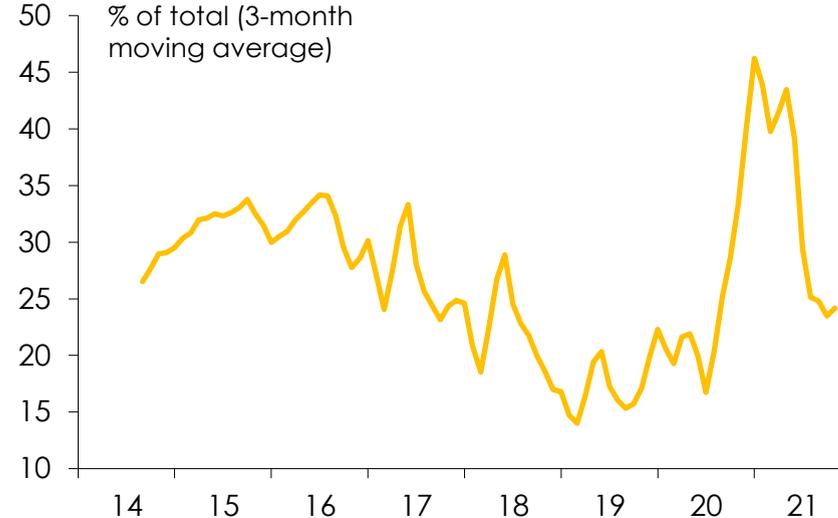
Note: The measure of the NZ Government budget balance is 'OBEGAL', which stands for 'operating balance excluding gains and losses' (an accrual accounting measure). Net 'core Crown debt' excludes assets of the NZ Super Fund, student loans and other advances, and financial assets held for public policy purposes Source: NZ Treasury, [Budget Economic and Fiscal Update 2021](#). [Return to "What's New"](#).

NZ's housing price boom has been fuelled by investors (a large proportion of them with very high LVRs) – but recent changes have had some impact

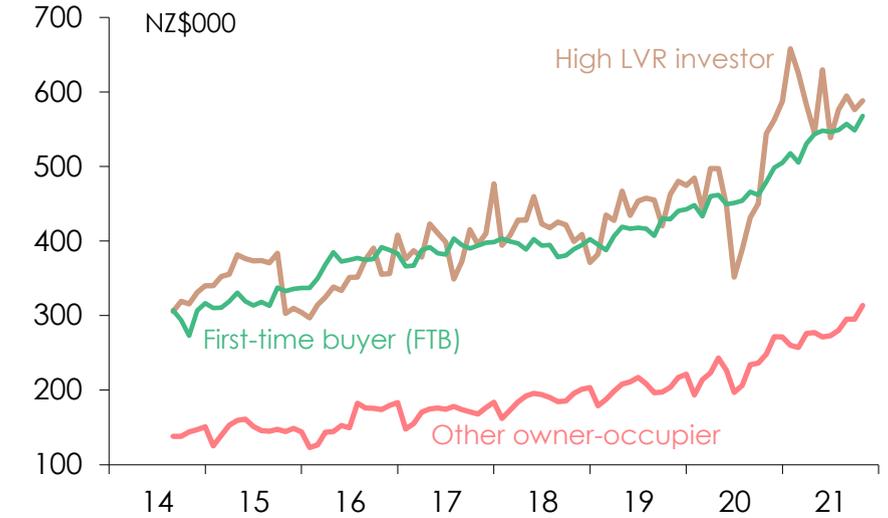
House price inflation



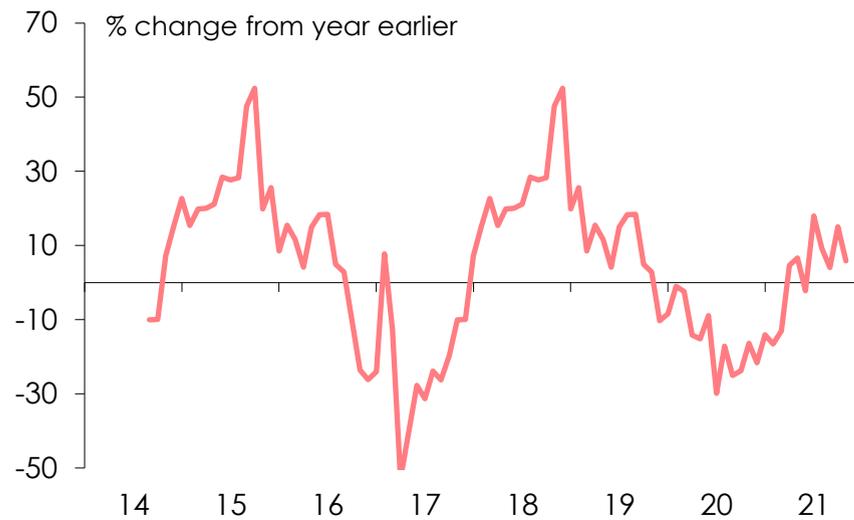
Lending to investors as pc of total



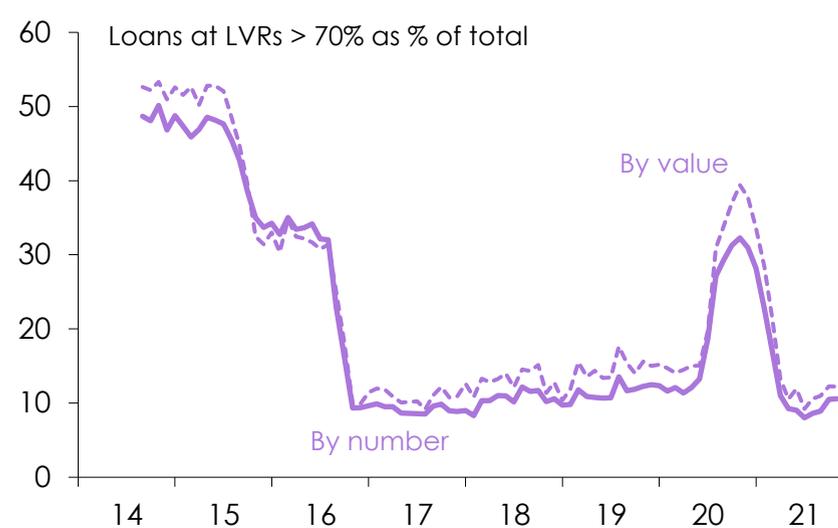
Average new mortgage



Mortgage lending growth



High-LVR loans to investors



Loans to FTBs at over 5 times income



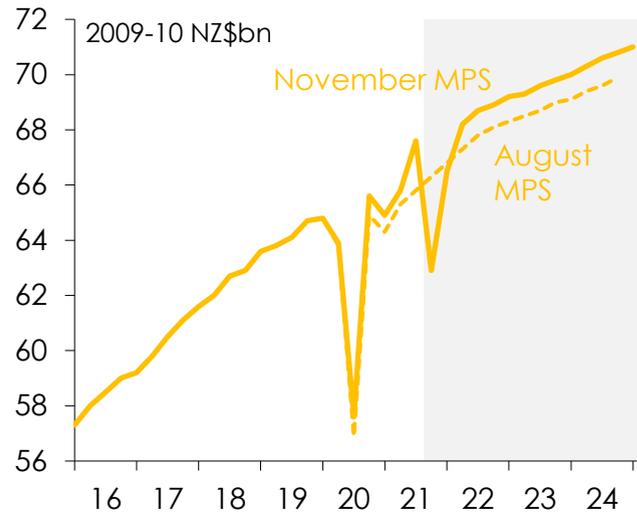
Sources: [Real Estate Institute of NZ](#); Reserve Bank of New Zealand (Tables [C30](#), [C31](#) and [C40](#)). [Return to "What's New"](#).

As fully expected, the RBNZ raised its cash rate another 25 bp to 0.75% last month, and foreshadowed it rising to 2.5% by Q3 2023

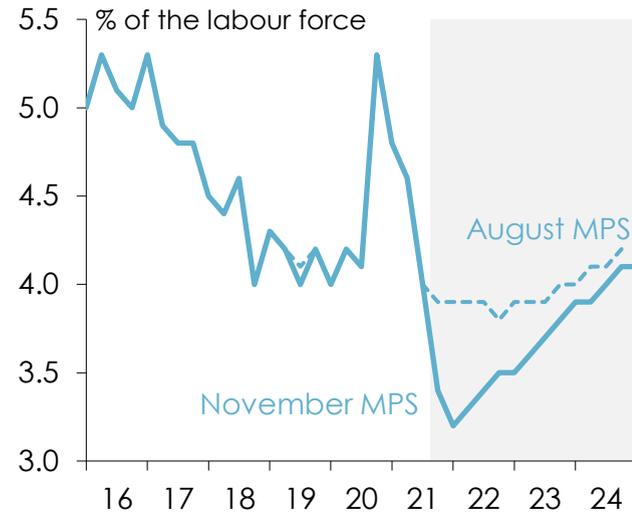
- ❑ The RBNZ raised its official cash rate (OCR) by another 25 basis points, to 0.75%, at its Monetary Policy Committee meeting on Wednesday, the second such increase after the first on 6th October
 - the MPC **noted** that “employment is now ... above its maximum sustainable level” and that “capacity pressures in the economy have continued to tighten” (despite recent lockdowns) which has “led to an increase in domestic inflation”
 - in its view, “the near-term risks to inflation are skewed to the upside”
- ❑ The decision to raise the OCR was primarily driven by concern about the consequences of ‘capacity’ pressures for inflation
 - in the MPC’s assessment, “rising demand alongside capacity constraints is contributing to higher domestic inflation”, accentuated by “higher oil prices, supply shortfalls and rising transport costs”, which are expected to result in CPI inflation rising “above 4% in the near term” before returning towards 2% “over the medium term”
 - In its view, “demand shortfalls are less of an issue than the economy hitting capacity constraints given the effectiveness of Government support and resilience of household and business balance sheets”
- ❑ The MPC re-iterated its judgement that “the level of house prices are [sic] unsustainable”
 - but noted that “higher mortgage interest rates, continued strong home building, tighter lending rules and changes in tax settings should all act to moderate house prices over the medium term” and that “continued increases in the OCR are expected to support more sustainable house prices”
- ❑ The RBNZ foreshadowed further tightening of monetary policy, indicating that “the OCR would need to be progressively increased and, conditional on the economy evolving as expected, the OCR would likely need to be raised above its neutral rate”
 - although it also “expressed uncertainty” about “the resilience of consumer spending and business investment” and that “high levels of household debt, and a large share of fixed-rate mortgages re-pricing in coming months, could increase the sensitivity of consumer spending to these interest rate increases”

The RBNZ raised its forecasts for GDP growth, inflation, the current account deficit and interest rates in its November Monetary Policy Statement

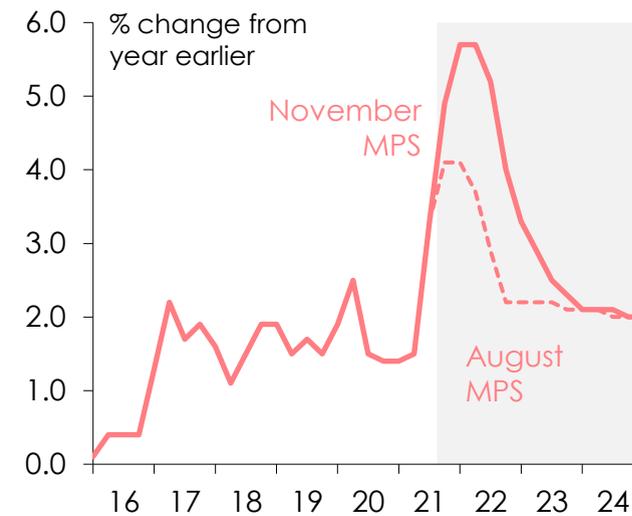
GDP



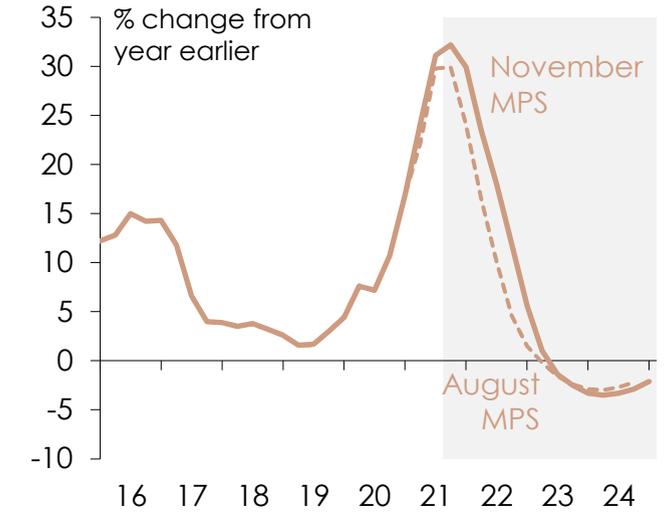
Unemployment



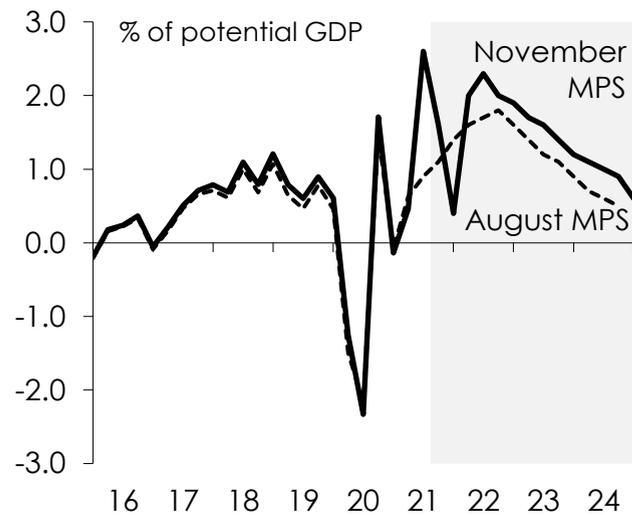
CPI inflation



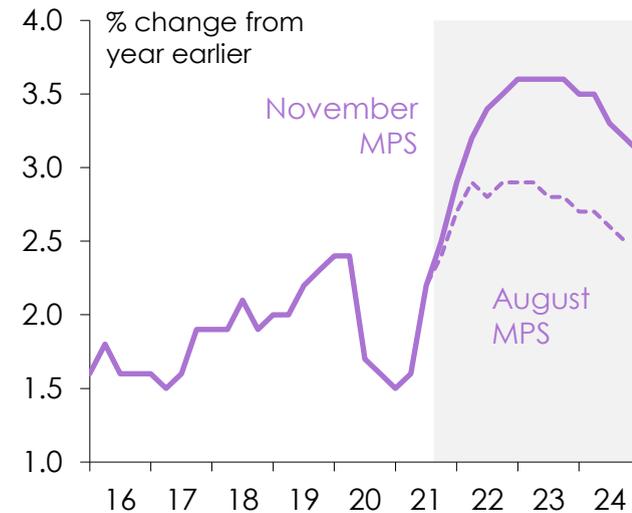
House price inflation



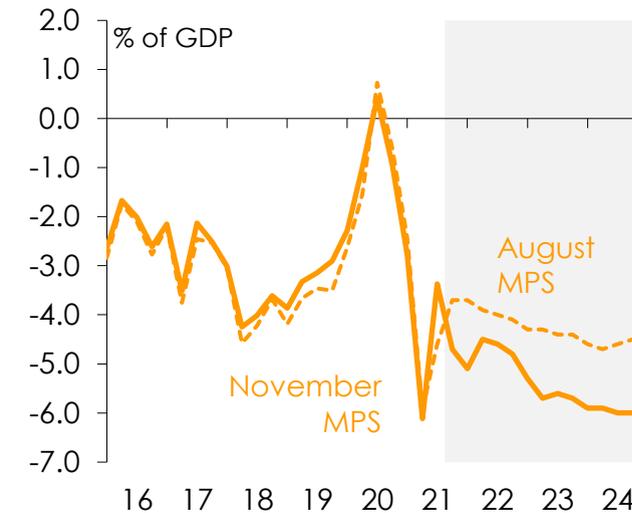
Output gap



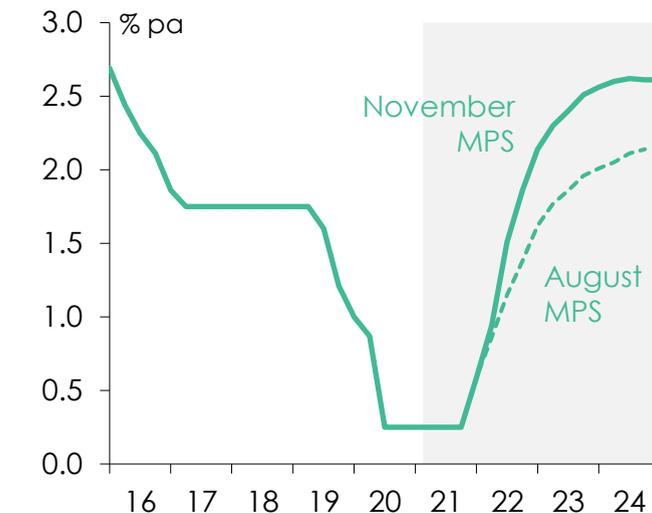
Private sector labour costs



Current account balance

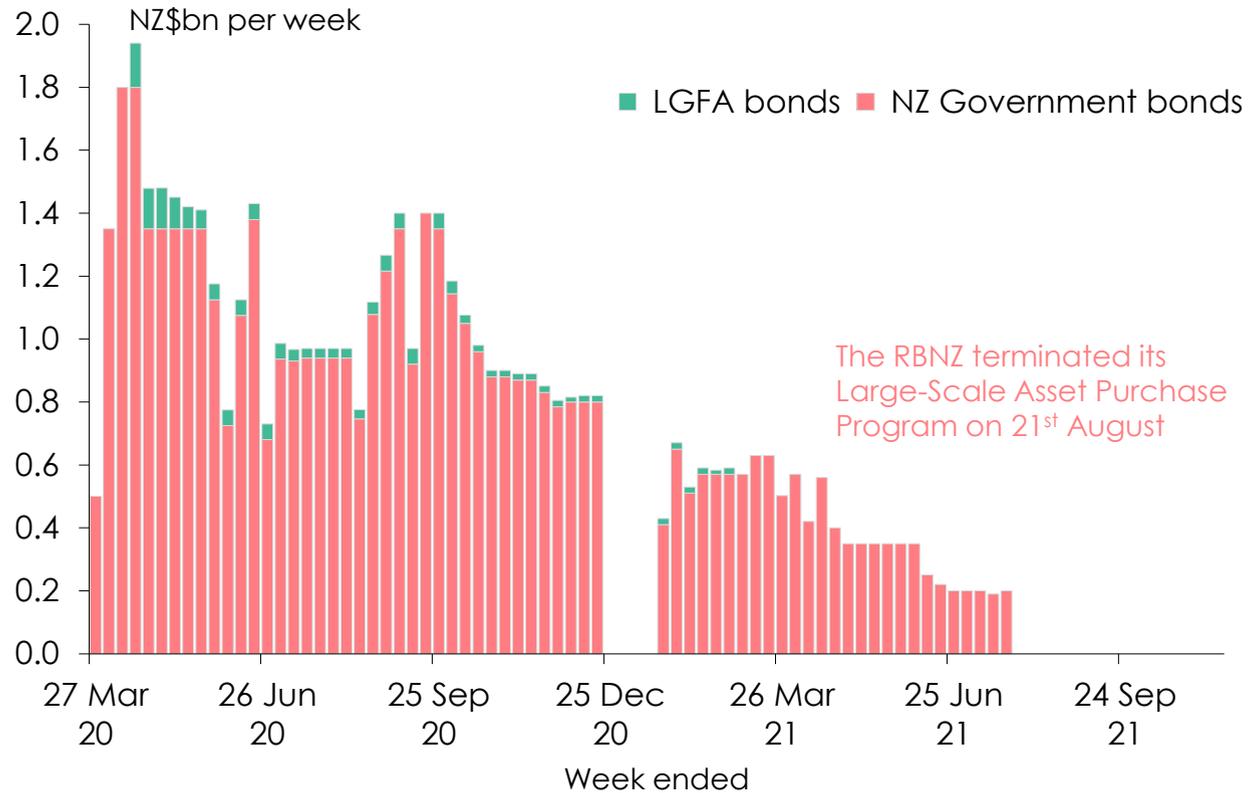


Official cash rate



New Zealand bond yields fell further this week, mirroring global trends, but the market may also be becoming a little less bearish on future OCR hikes

RBNZ open market bond purchases



New Zealand interest rates



- ❑ New Zealand bond yields fell this week, mirroring global trends prompted by concerns over the spread of the 'omicron variant', with the 10-year yield down 15bp to 2.43%, the lowest since the last week of October
- ❑ Shorter-dated yields also declined, the 2-year touching 1.80% mid-week before finishing just about 1.90%, and the 5-year down 8bp to 2.23% after getting as low as 2.15% during the week, suggesting markets are becoming a little less hawkish about RBNZ rate hikes

Note: LGFA = Local Government Financing Authority. Source: Reserve Bank of New Zealand, [Statistics](#) Tables B2 and D3. Data up to 3rd December. [Return to "What's New"](#).

Important information

This document has been prepared by Saul Eslake on behalf of Corinna Economic Advisory Pty Ltd, ABN 165 668 058 69, whose registered office is located at Level 11, 114 William Street, Melbourne, Victoria 3000 Australia.

Corinna Economic Advisory is a partner (with Llewellyn Consulting, of 1 St Andrews Hill, London EC4V 5BY, United Kingdom) in Independent Economics.

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