# ECONOMIC IMPACT OF THE CORONAVIRUS PANDEMIC

26<sup>TH</sup> SEPTEMBER 2020



### What's new?

#### The world

- 2,055,202 new Covid-19 cases were confirmed this week, the highest total since the pandemic began, pushing the cumulative total above 32 million; while 37,256 people died, bringing the cumulative death toll to 984,040 (slide 4)
- ☐ The rising case numbers are now being driven by an upsurge in Europe (where new cases have doubled over the past month) and "the five I's" India, Indonesia, Iran, Iraq and Israel (slide 5)
- With 73 countries now having released their Q2 GDP estimates (of the 95 who eventually will) we estimate that global GDP declined by 8.8% from Q2 2019, while the OECD estimated that OECD area real GDP shrank by 11.7% over the year to Q2 (slide 18)
- Preliminary purchasing managers' indices (PMIs) for the euro area, the UK and Japan indicate further modest gains in manufacturing, but a softening in services activity (slide 33)
- Concerns over Europe's 'second wave' of infections, and a slower-than-expected rebound in economic activity in major economies, prompted an increase in global investor risk aversion, in turn reflected in a rebound in the US\$, as well as weaker stockmarkets and lower bond yields (slide 30) and a slump in the A\$ (slide 110)
- ☐ With both opinion polls and betting odds pointing to a Biden victory at the US Presidential election to be held in less than six weeks, *The Atlantic* this week published a detailed account of how such an outcome could be thwarted, by legal and extra-legal means (slide 48)
- The RBNZ flagged the introduction of a 'Funding for Lending Program', and the possibility of negative rates, by year-end (slides 29 and 124)

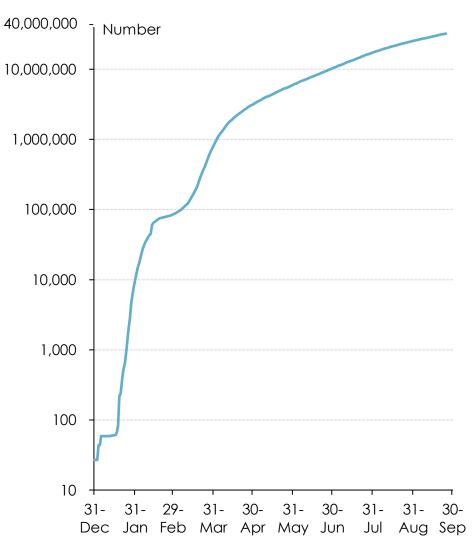
#### **Australia**

- Australia recorded 'only' 139 new Covid-19 cases this week, the lowest since the third week of June; there were 595 active cases on Friday (the lowest numbers since 5<sup>th</sup> July); and this week's death toll of 32 was the lowest since the week ended 25<sup>th</sup> July (slide 8)
- ☐ Victoria recorded 106 new cases reported this week, dropping the 14-day moving average for which the state government has a target of zero by 23<sup>rd</sup> November for restrictions to be completely removed to 25 (from over 400 in early August) (slide 9)
- 32% of businesses were operating 'normally' in mid-September, from 25-27% in each of the four preceding months with mining being by far the furthest advanced sector in returning to 'normal' (slide 64)
- Owner-managers of businesses with no employees more than accounted for all of the increase in employment reported in last week's August labour force survey although this doesn't 'prove' that most of the new jobs will be in the 'gig' economy (slide 67)
- ☐ The number of payroll jobs fell 0.4% over the last week of August and first week of September, bringing to five the number of consecutive weeks of decline largely but not totally because of the Victorian lockdown (slide 73)
- □ Preliminary data show retail sales fell 4.2% in August, dragged down by a 12.6% slump in Victoria (slide 79)
- ☐ The Treasurer foreshadowed a 'recalibration' of the Government's fiscal strategy in next month's Budget, prioritizing supporting economic growth above budget repair until the unemployment rate is back under 6% (slide 102)
- ☐ The RBA's Deputy Governor hinted at a possible further easing of monetary policy at next month's Board meeting (slide 107)

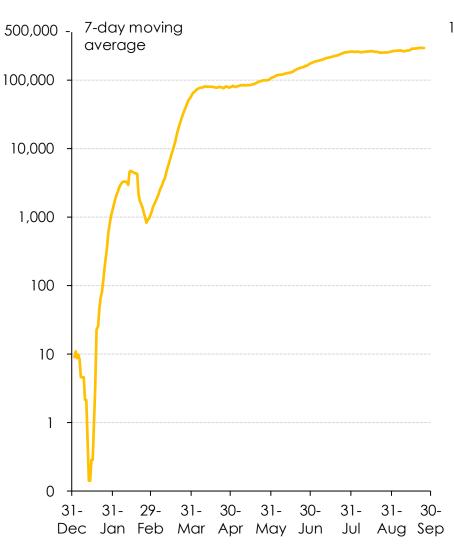
### The virus

### The global 'second wave' still hasn't peaked, with the number of cases now over 32 million, and the number of deaths less than 16K short of 1 million

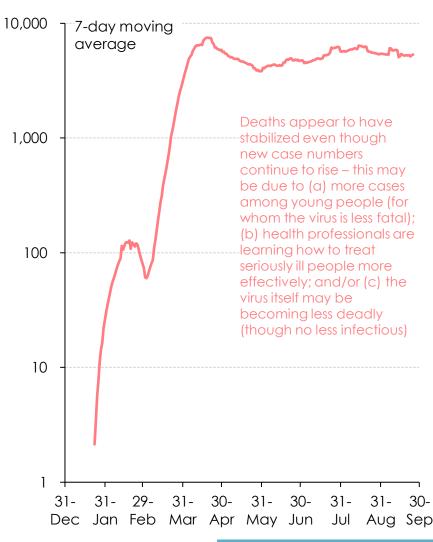




### New confirmed cases – global total



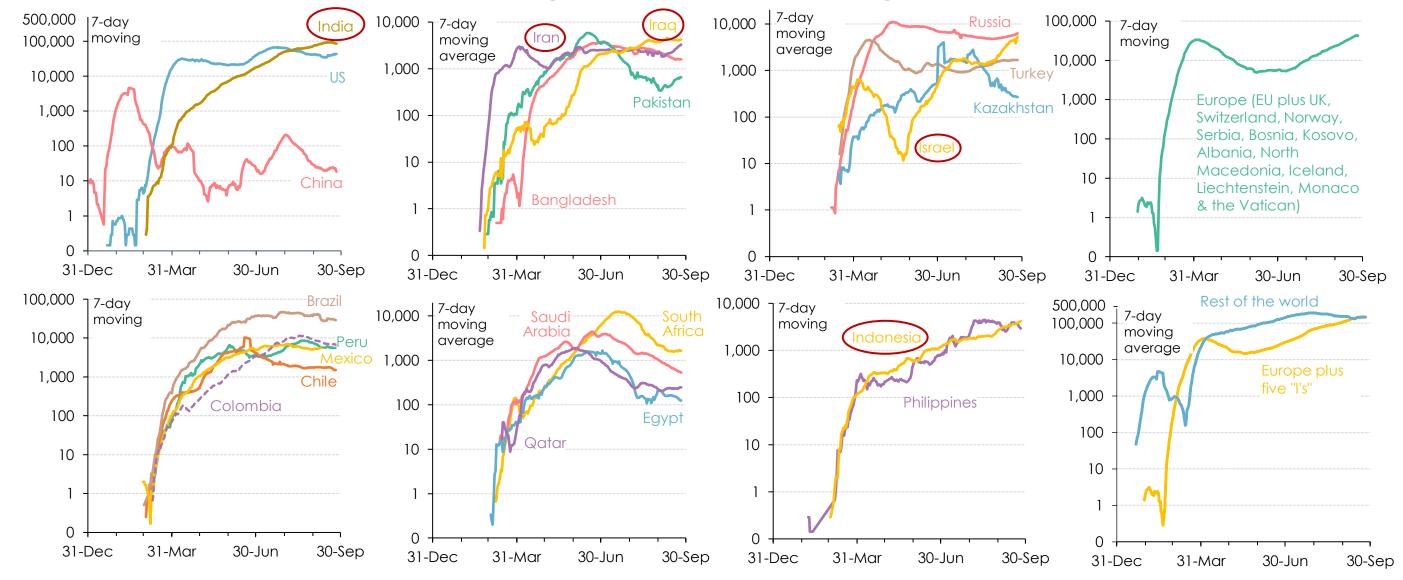
### New deaths – global total





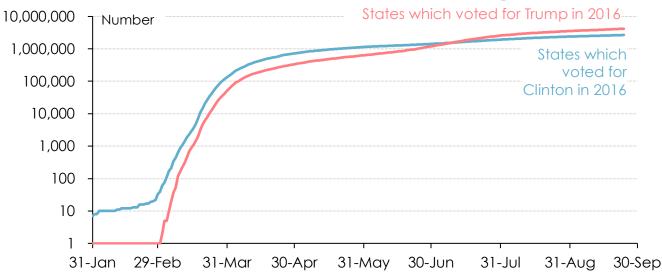
## The ongoing rise in global case numbers is now being driven by Europe and the "five I's" (India, Indonesia, Iran, Iraq and Israel)

Daily new cases – selected countries with large populations and/or rapid growth in cases

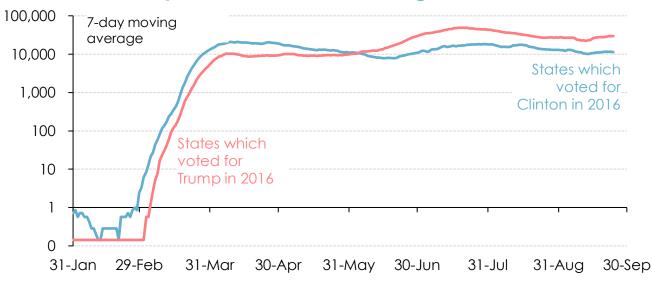


## In the US, new Covid-19 cases in 'red states' continue to outnumber those in 'blue' states – although in aggregate new cases numbers are flattening

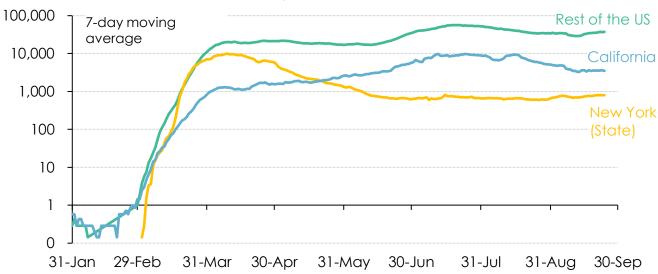
#### Cumulative cases, by 2016 Electoral College vote



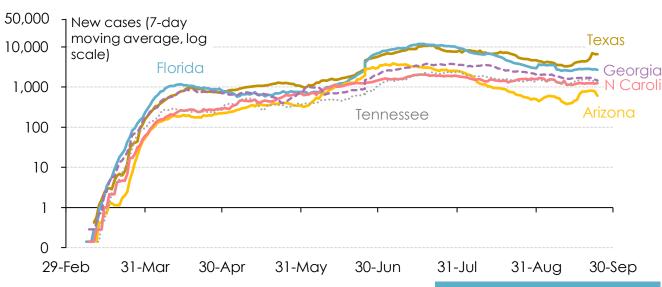
### New cases, by 2016 Electoral College vote



#### New cases – New York, California & the rest of the US



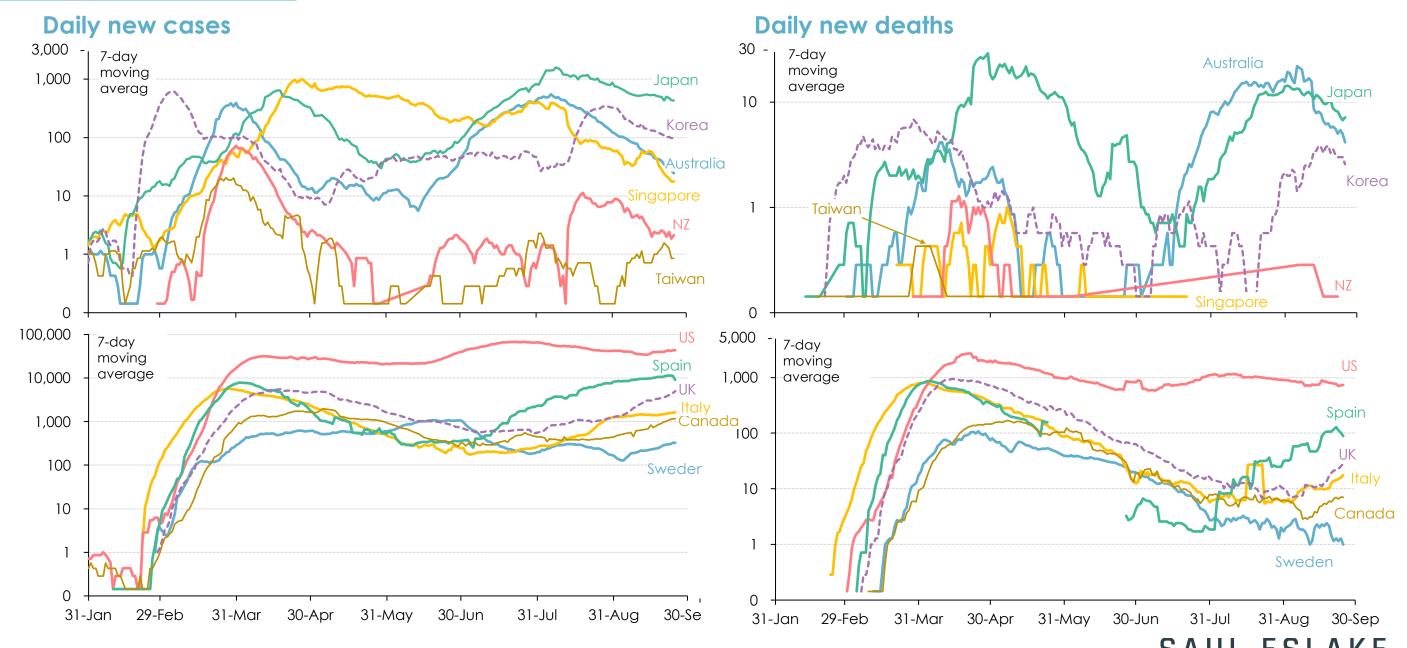
#### States with fastest recent increases in new cases



Note: All charts are on logarithmic scale. Cases for Maine (whose Electoral College votes are awarded separately by each of its two Congressional districts) are split by how each of its 16 counties voted in 2016. Sources: <u>USAFacts</u>; <u>Centers for Disease Control and Prevention</u>; Corinna. Latest data are for 24<sup>th</sup> September.



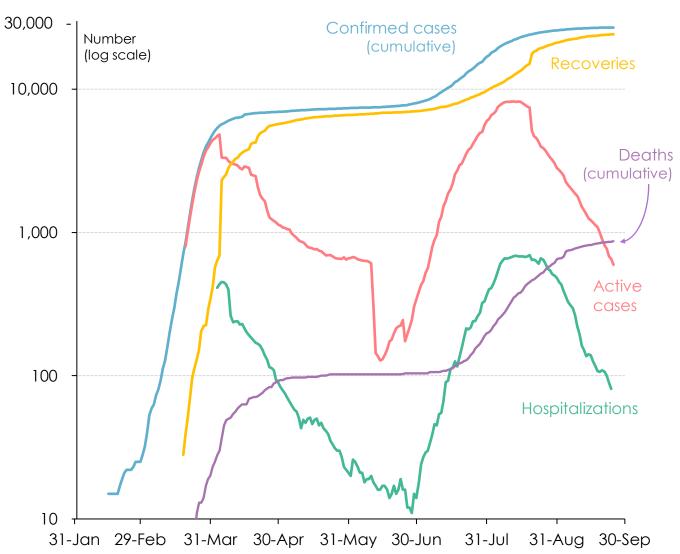
## North Asia's, Australia's & New Zealand's 'second waves' are ebbing, but many European countries are experiencing a renewed uptrend in cases



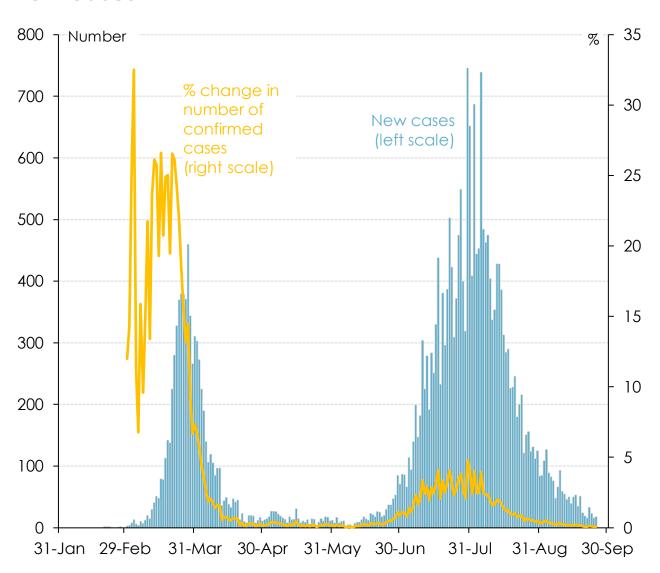
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### The number of new cases in Australia over the past week was the lowest since the 2<sup>nd</sup> week of June, and deaths the lowest since the 3<sup>rd</sup> week of July

### Cases, recoveries, hospitalizations and deaths

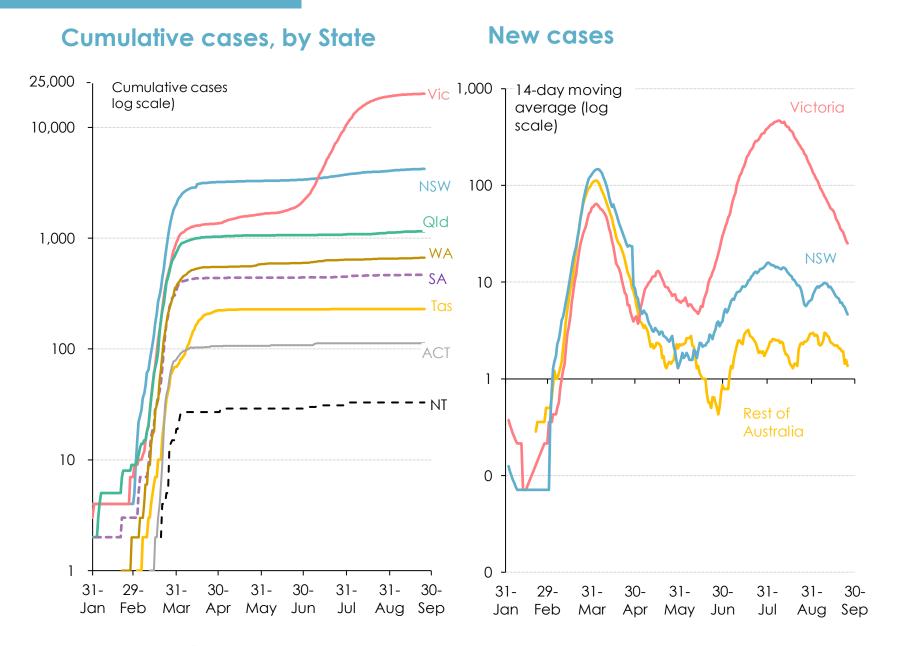


#### New cases

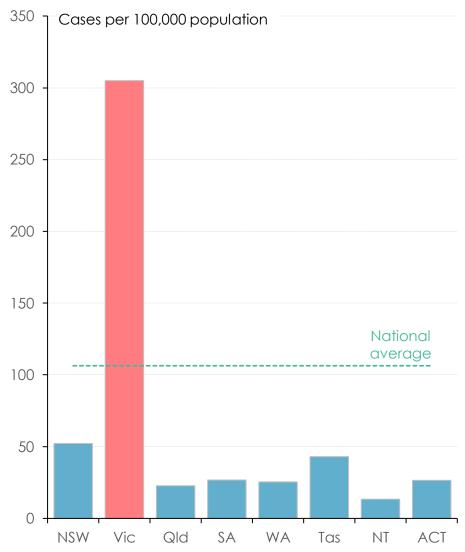




## Victoria's "second wave" of infections peaked in the first week of August but still hasn't receded enough to allow the state to start 're-opening'



### Cases per 100,000 population

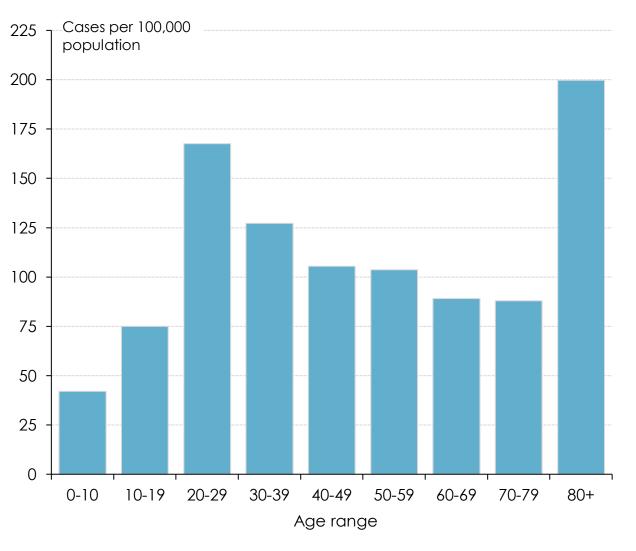


Note: Data up to 25<sup>th</sup> September. Source: <u>covid19data.com.au</u>.

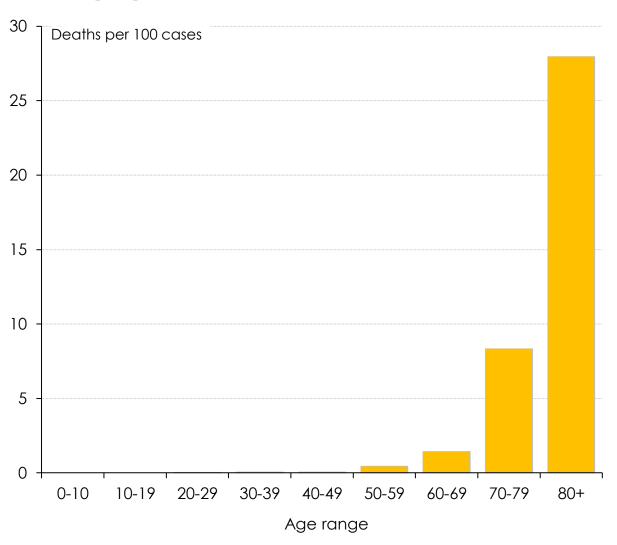


## Infection rates now higher among people in their 20s & 30s than among those in their 40s though 70s, though fatality rates are higher for over-60s

### Cumulative confirmed cases per 100,000 population, by age group

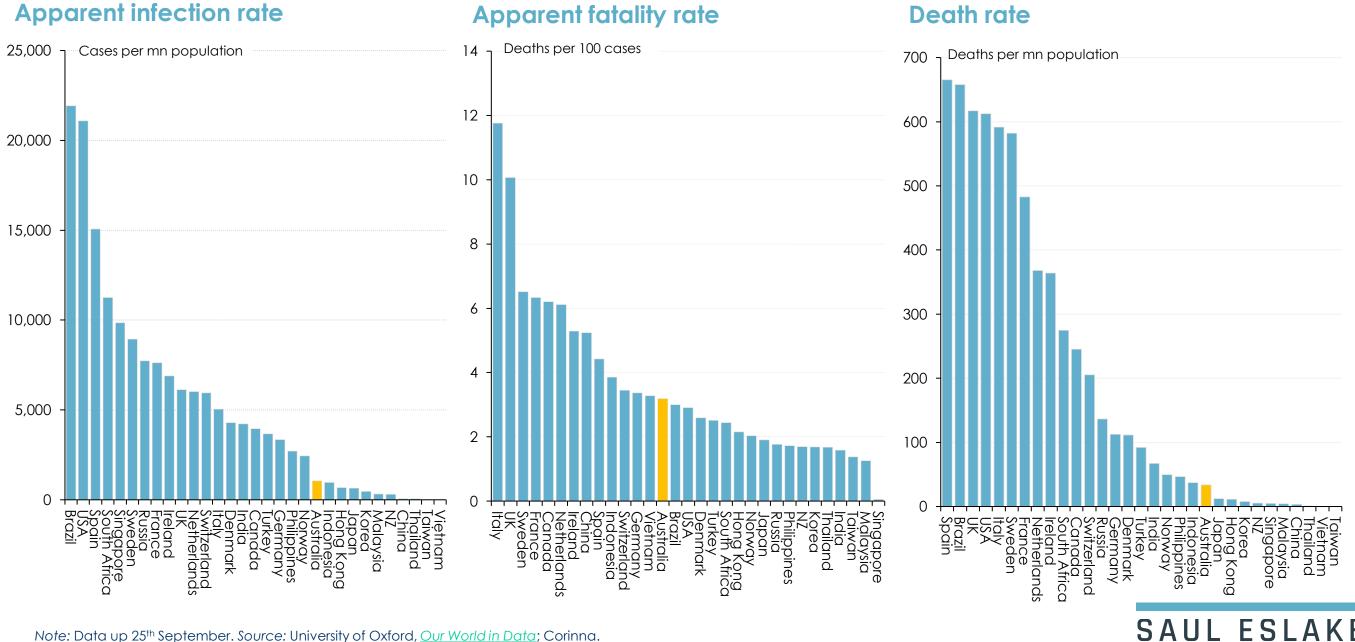


### Deaths from Covid-19 per 100 cases, by age group





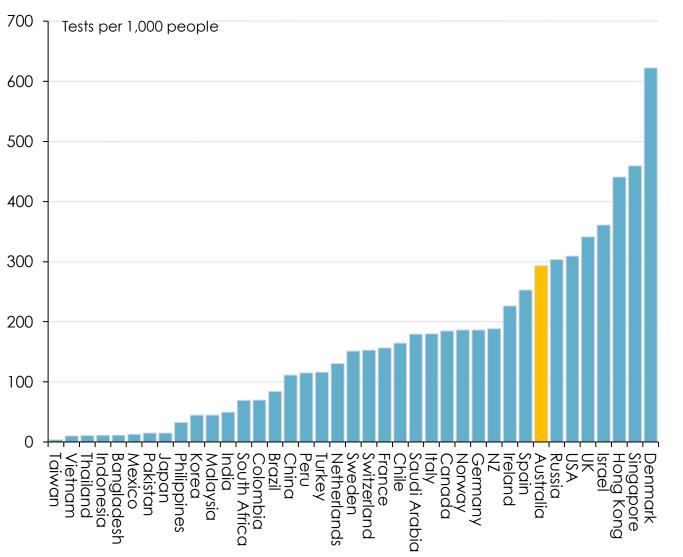
### Australia's infection and death rates remain, along with NZ's and most East Asian countries', low by international standards



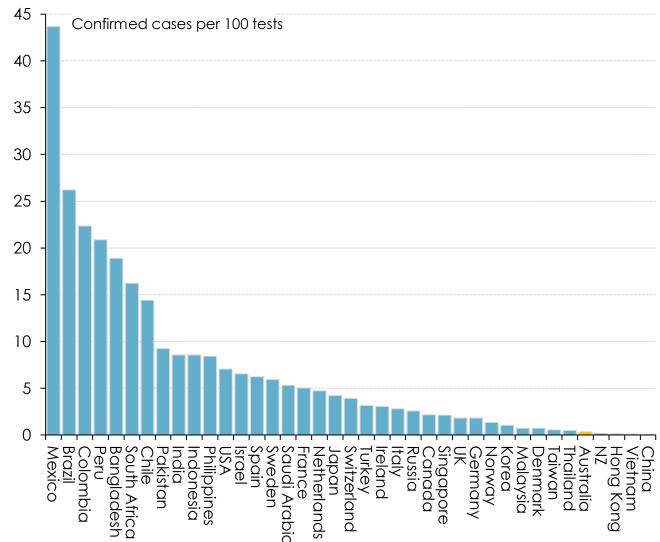
CORINNA ECONOMIC ADVISORY

## Australia's testing regime appears sufficiently broad for the low infection and death rates to be seen as 'credible' (ie not due to low testing)

### Tests per thousand of population



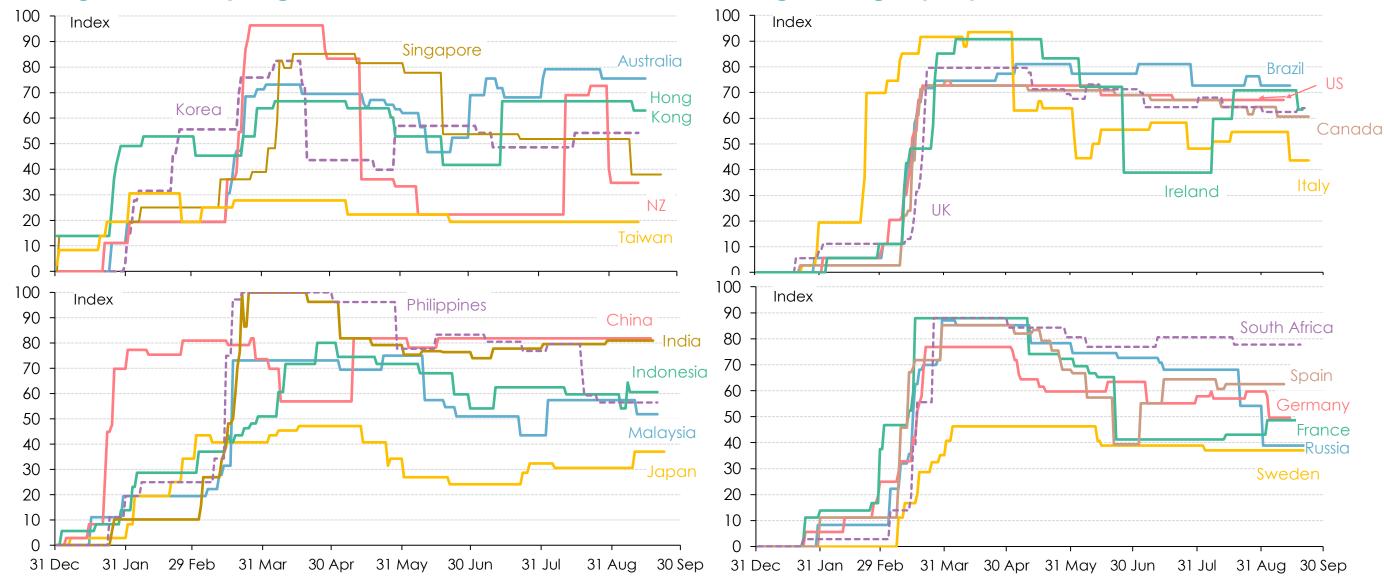
### Confirmed cases per 100 tests





## A few more countries have tightened restrictions in response to 'second waves' in recent weeks, while some (eg NZ) have eased

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

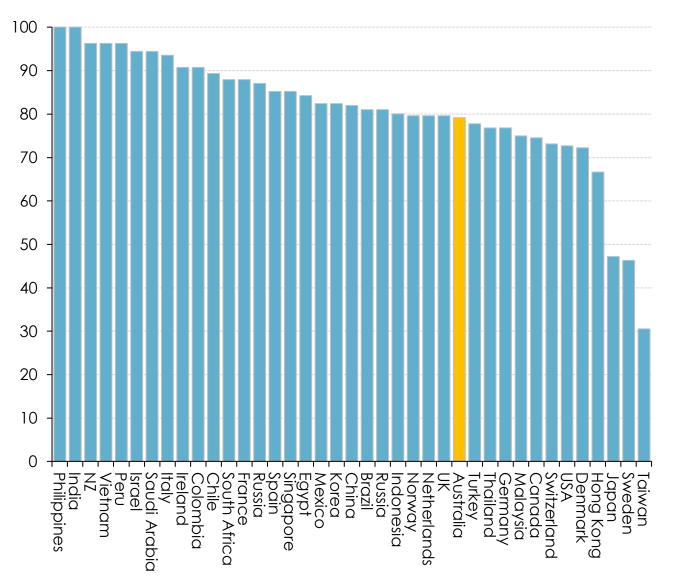


The Oxford COVID-19 Government Response Tracker collects publicly available information on 11 indicators of government response including school and workplace closures, public events cancellations, restrictions on public gatherings, stay at home requirements, public transport closures, domestic and international travel restrictions, public information campaigns, testing and contact tracing. Source: Blavatnik School of Government, Oxford University. Data up to 11<sup>th</sup>-23<sup>rd</sup> September.

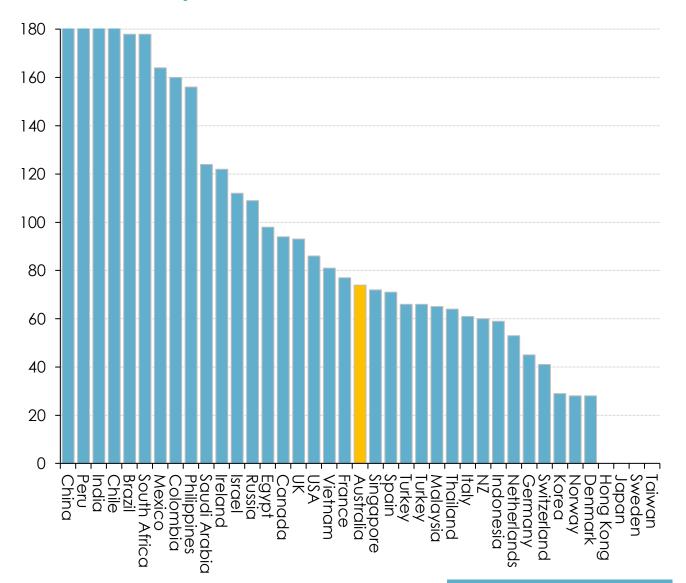


## Australia's restrictions have been, on average, less stringent than in most other countries – though we have crept up the list a bit in the past 6 weeks

### Highest level of restrictions imposed



#### Number of days restrictions above 70 on Oxford index

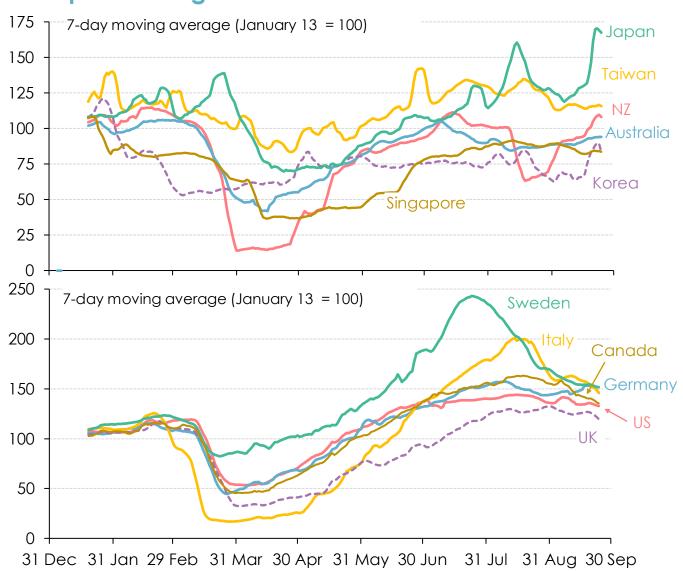


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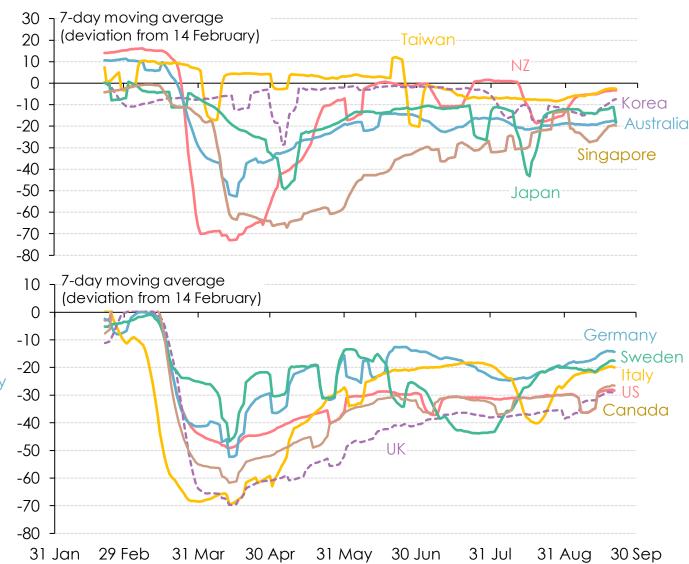


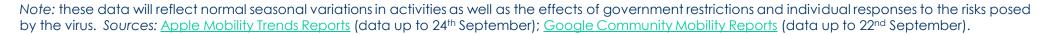
### The uptrend in mobility since April has begun to peter out in countries where restrictions have been re-imposed

### Time spent driving



### Time spent in work places

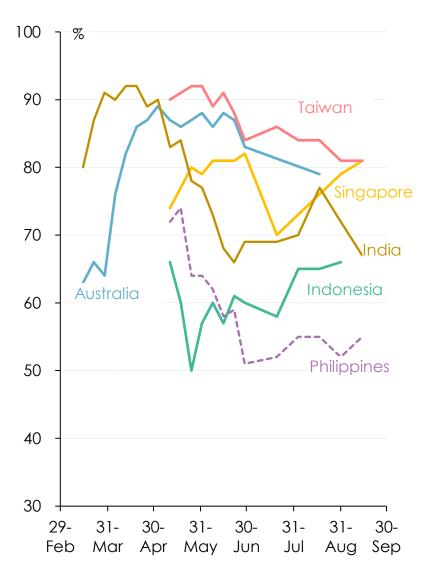


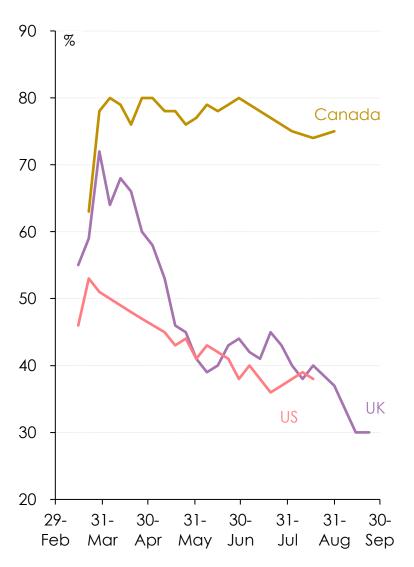


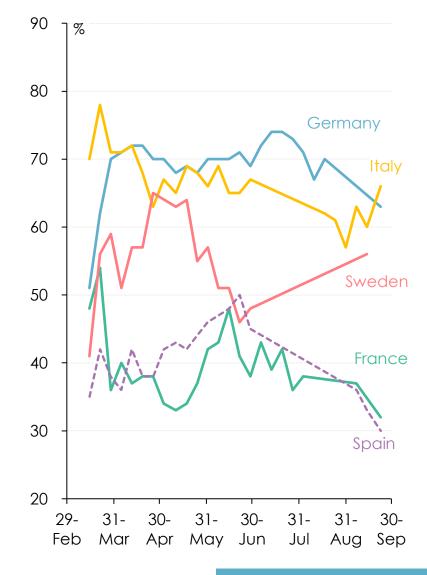


## Voters in most Asian countries and Canada are much happier with their governments' handling of the pandemic than those in the US or Europe

### Voter approvalal of their government's handling of the coronavirus pandemic





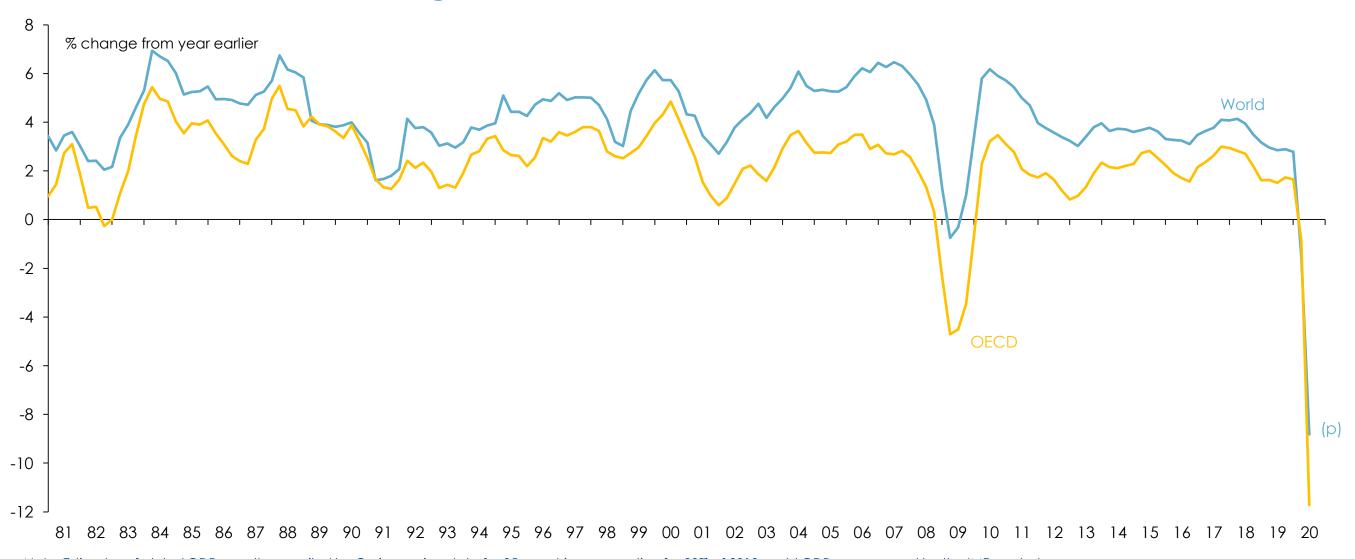




### The world

### The world economy experienced has contracted by about $8\frac{3}{4}$ %, and the OECD area economy by $11\frac{3}{4}$ %, over the year to Q2

### World and OECD area real GDP growth

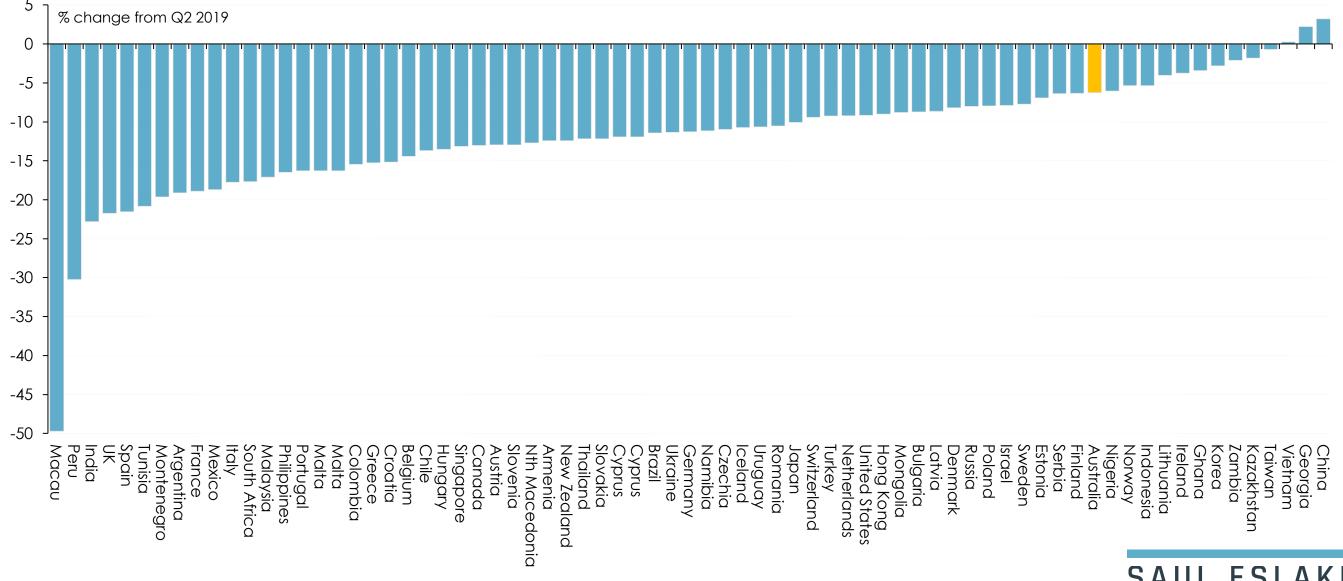


Note: Estimates of global GDP growth compiled by Corinna using data for 95 countries accounting for 90% of 2018 world GDP as measured by the IMF; excludes constituents of the former USSR before 1993, the former Czechoslovakia before 1995, and the former Yugoslavia before 1998. (p) Estimate for Q2 is a preliminary estimate based on published results for the 72 countries shown in the <a href="next-slide">next-slide</a>; the only significant economies still missing from the 95 in the full data set which account for more than 1% of 2018 global GDP are Saudi Arabia and Iran. Sources: national statistical agencies and central banks; Eurostat; OECD; IMF; Corinna.



## Of the 73 economies which have reported Q2 GDP data so far, the worst contractions over the past year have been in Macau, Peru, India & Spain

### Real GDP growth over the year to Q2 2020



### All major forecasters expect 2020 to be the worst year since the 1930s: the OECD this week revised 2020 forecasts up (a bit) but 2021 down

### Major global institutions' growth forecasts for 2020 and 2021 compared

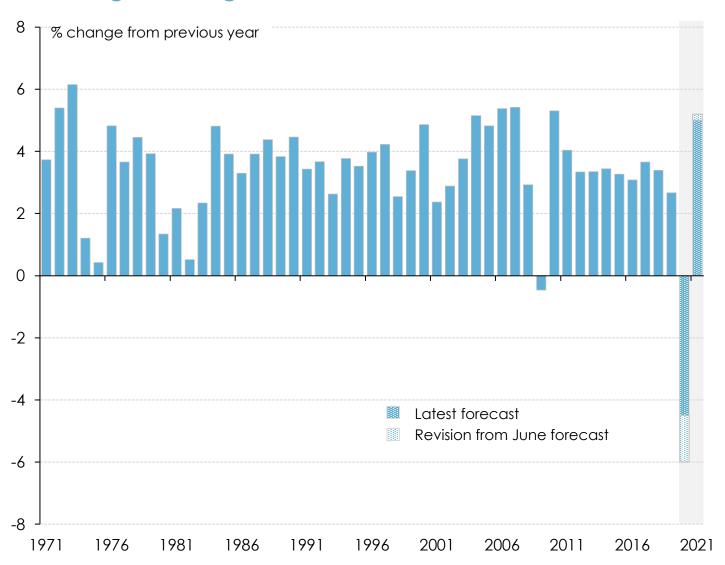
|             | Actual | IMF               |                  | World Bank |      | OECD* |      | Australian<br>Treasury |      |
|-------------|--------|-------------------|------------------|------------|------|-------|------|------------------------|------|
|             | 2019   | 2020              | 2021             | 2020       | 2021 | 2020  | 2021 | 2020                   | 2021 |
| US          | 2.3    | -6.1              | 4.5              | -6.1       | 4.0  | -3.8  | 4.1  | -8.0                   | 4.8  |
| China       | 6.1    | 1.2               | 9.2              | 1.0        | 6.9  | 1.8   | 8.0  | 1.8                    | 8.3  |
| Euro area   | 1.2    | -7.5              | 4.7              | -9.1       | 4.5  | -7.9  | 6.5  | -8.8                   | 5.0  |
| India       | 4.2    | 1.9               | 7.4              | -3.2       | 3.1  | -3.7  | 5.1  | -4.0                   | 4.3  |
| Japan       | 0.7    | -5.2              | 3.0              | -6.1       | 2.5  | -5.8  | 1.5  | -6.3                   | 2.8  |
| UK          | 1.4    | -6.5              | 4.0              | na         | na   | -10.1 | 10.7 | na                     | na   |
| Australia   | 1.8    | -6.7              | 7.1              | na         | na   | -4.1  | 2.5  | -3.8                   | 2.5  |
| New Zealand | 2.2    | -7.2 <sup>†</sup> | 5.9 <sup>†</sup> | na         | na   | -8.9  | 6.6  | na                     | na   |
| World       | 2.9    | -3.0              | 5.8              | -5.2       | 4.2  | -4.5  | 5.0  | -4.8                   | 5.0  |
| World trade | 0.9    | -11.0             | 8.4              | -13.4      | 5.3  | -9.5  | 6.0  | na                     | na   |

<sup>\*</sup> OECD forecasts are their 'single hit' scenario to be consistent with the assumptions of the other institutions. † The IMF did not publish revised forecasts for New Zealand in its latest WEO publication. Sources: International Monetary Fund (IMF), <u>World Economic Outlook</u>, 24<sup>th</sup> June 2020; The World Bank, <u>Global Economic Prospects</u>, 8<sup>th</sup> June 2020; Organization for Economic Co-operation & Development (OECD), <u>Economic Outlook - Interim Report</u> 16<sup>th</sup> September 2020; Australian Treasury, <u>Economic and Fiscal Update</u>, 23<sup>rd</sup> July 2020. The IMF forecasts will be updated with the release of the next WEO on 13<sup>th</sup> October; the Australian Treasury's forecasts will be updated with the Budget on 6<sup>th</sup> October.

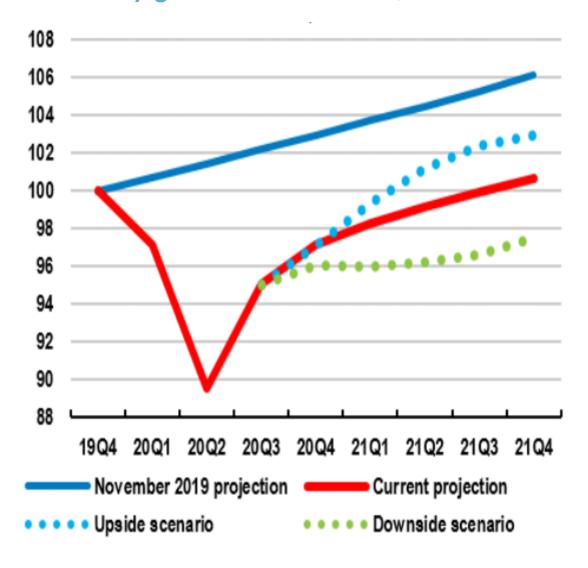


## The OECD's latest forecast for world GDP growth in 2020 is $-4\frac{1}{2}\%$ (revised from -5% in June) and for 2021 is + 5% (revised from 5.2%)

#### Annual growth in global real GDP, 1961-2021



#### Quarterly growth and forecasts, 2017-2021

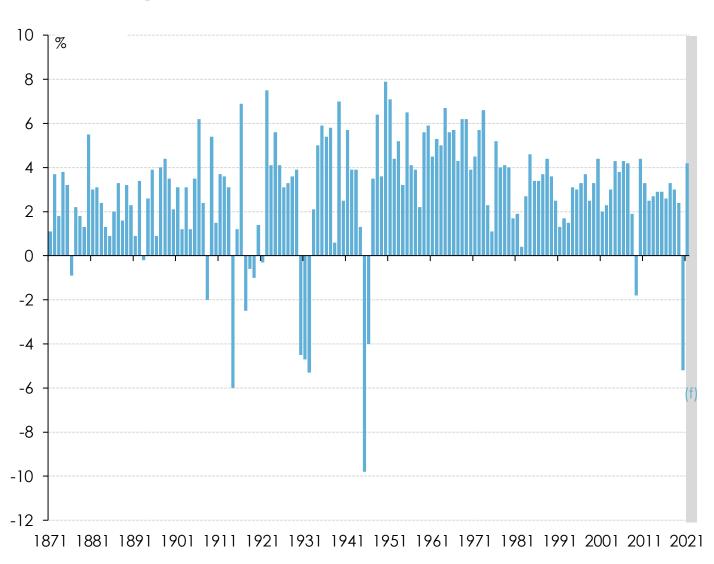


Note: The 'double hit' scenario assumes a 'second wave' of Covid-19 infections and deaths "in all economies towards the end of this year", while the 'single hit' scenario assumes this 'second wave is avoided'. The OECD regards each scenario as "equally likely". Source: OECD, Economic Outlook Interim Report, 16th September 2020.

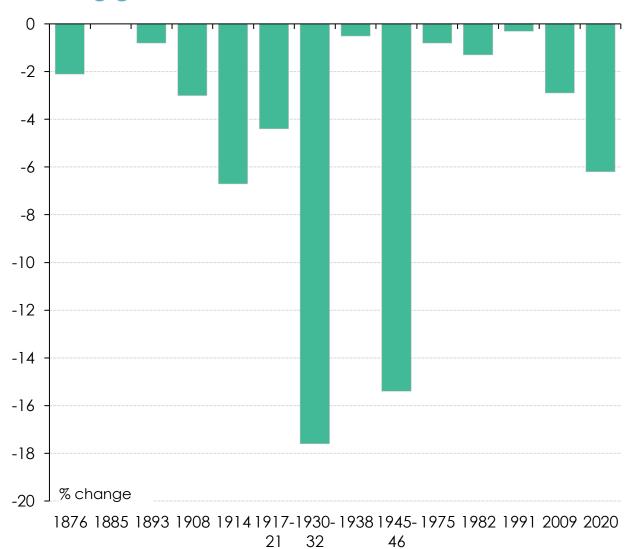


## The World Bank forecasts a 5.2% decline in world GDP this year, with a 4.2% increase in 2021- the 4<sup>th</sup> worst global downturn in 150 years

#### Growth in global real GDP, 1871-2001



### Cumulative decline in real per capita GDP during global recessions

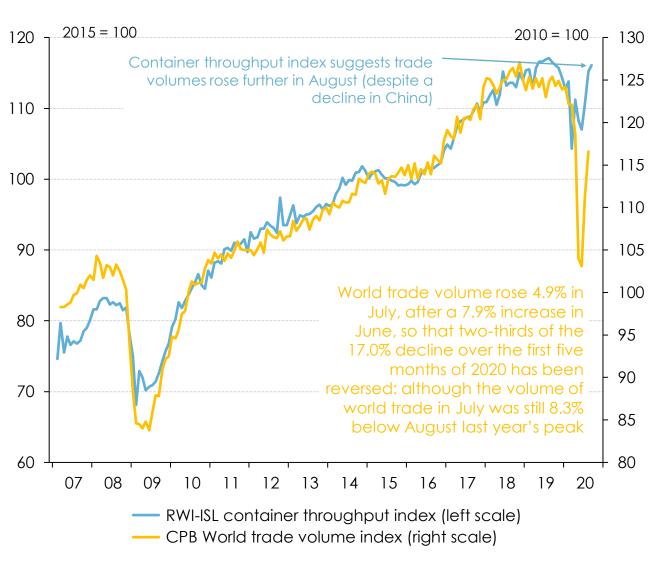


Source: The World Bank, Global Economic Prospects, 8th June 2020.

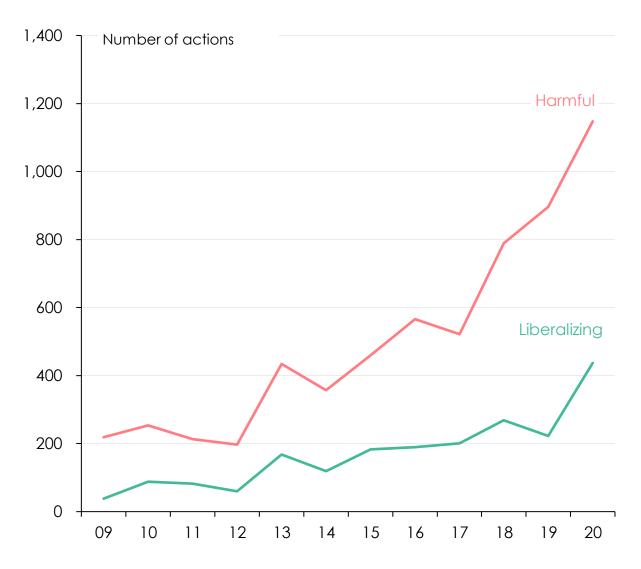


### World merchandise trade volumes rebounded in June but are still 13% below their October 2018 peak

#### World trade volumes and container throughput



#### Pro- and anti-trade policy interventions



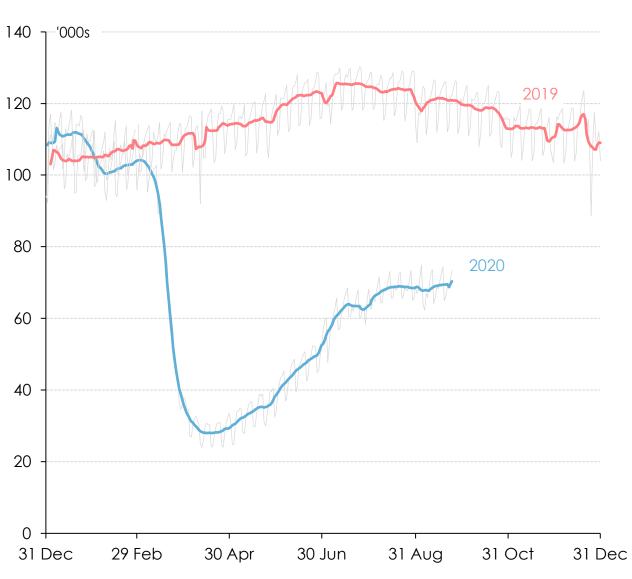
Note: The shipping container throughput index is based on reports from 91 ports around the world handling over 60% of global container shipping.

Sources: CPB Netherlands Economic Planning Bureau, World Trade Monitor (August data to be released on 23rd October); Institute of Shipping Economics & Logistics (ISL) and RWI Leibniz-Institut für Wirtschaftsforschung (RWI) Container Throughput Index; Centre for Economic Policy Research, Global Trade Alert Global Dynamics (data up to 25th September).

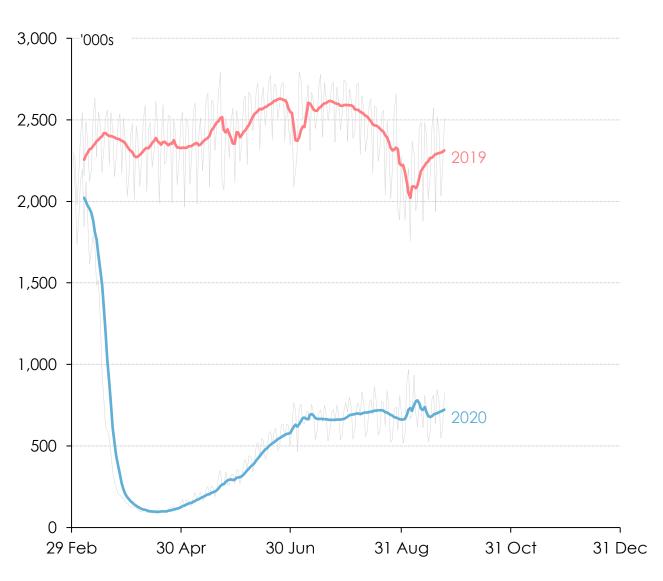


### Global aviation traffic picked up over the past week, to the highest as percentage of year-earlier level since mid-March

### Daily commercial flights worldwide



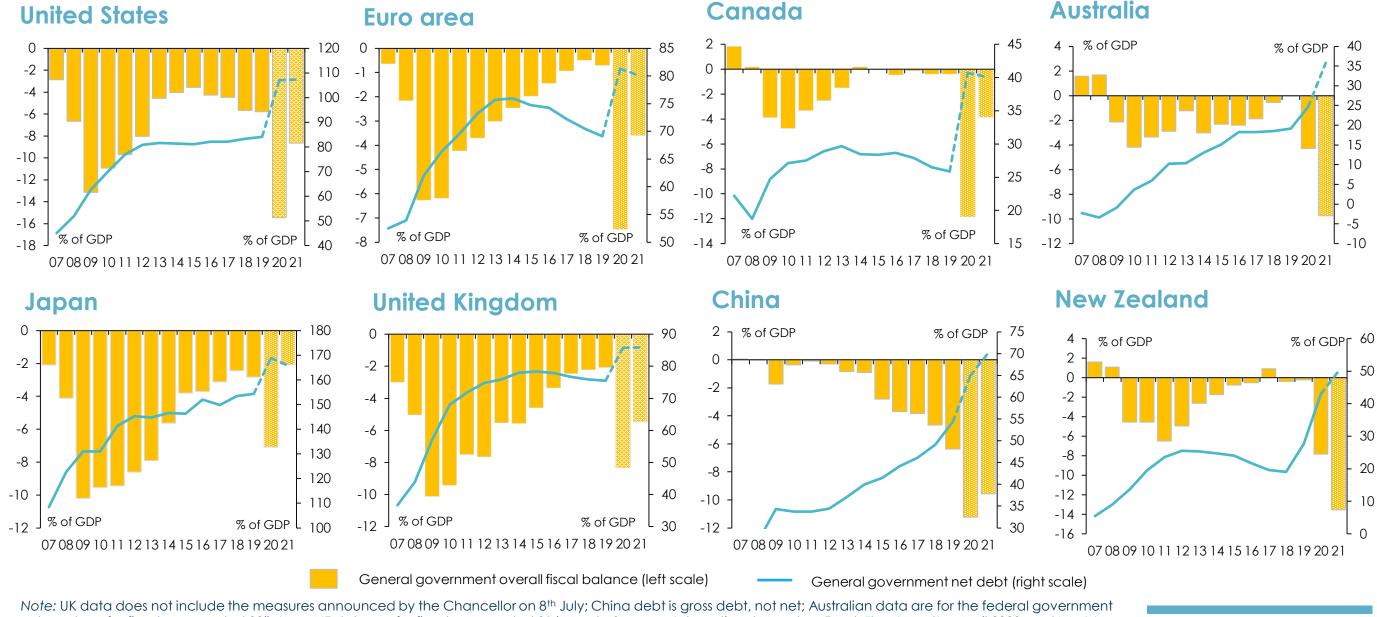
### Daily US TSA security checks



Note: Commercial flights include commercial passenger flights, cargo flights, charter flights, and some business jet flights. Data up to 24th September. Thicker coloured lines are 7-day centred moving averages of daily data plotted in thin grey lines. Sources: Flightradar24.com; US Transport Safety Administration (at last, something useful produced by aviation 'security'!!!)



### Governments around the world are doing more by way of fiscal stimulus than they did during the global financial crisis

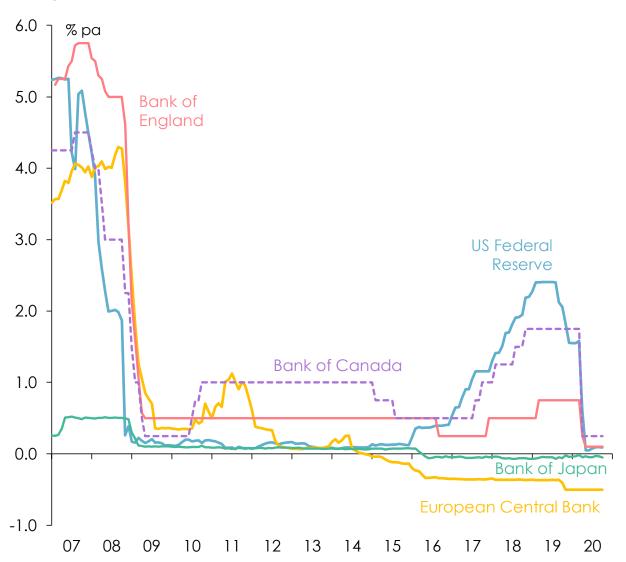


Note: UK data does not include the measures announced by the Chancellor on 8<sup>th</sup> July; China debt is gross debt, not net; Australian data are for the federal government only and are for fiscal years ended 30<sup>th</sup> June; NZ data are for fiscal years ended 31<sup>st</sup> March. Sources: International Monetary Fund, Fiscal Monitor, April 2020, and World Economic Outlook, June 2020; Australian Government, Economic and Fiscal Update, July 2020 and Final Budget Outcome 2019-20 September 2020; New Zealand Treasury, Pre-Election Economic and Fiscal Update, September 2020.

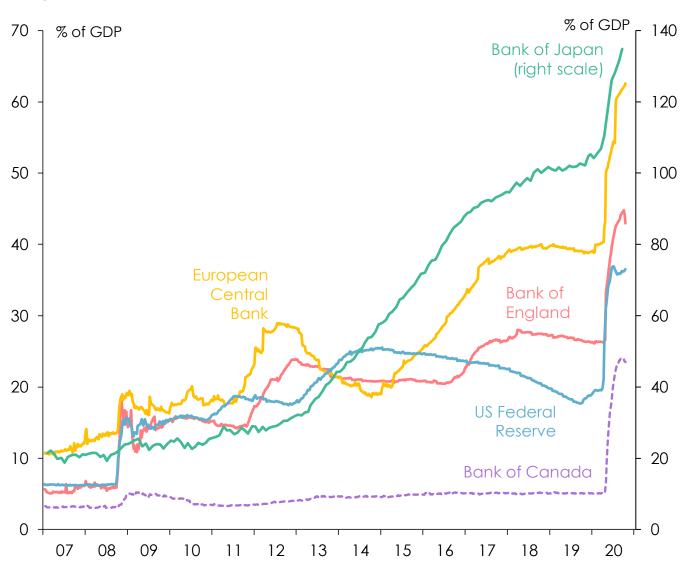


## Major central banks have cut interest rates to record lows, and done more 'quantitative easing' than during the global financial crisis

### Major central bank policy interest rates



#### Major central bank balance sheets

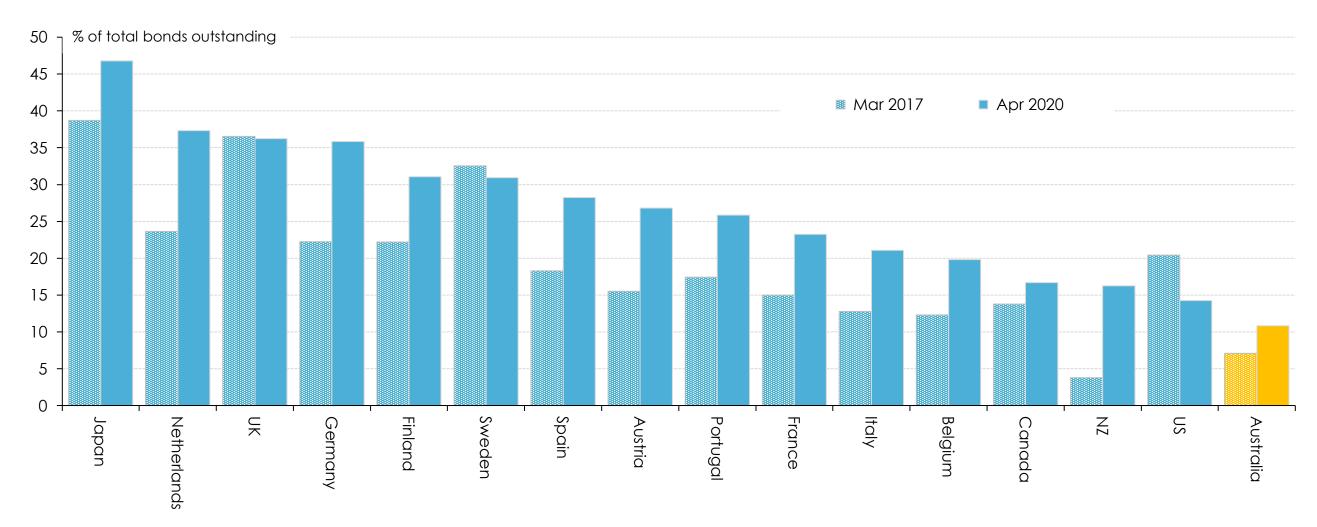


Note: estimates of central bank assets as a pc of GDP for weeks or months since the beginning of April have been inflated by the sharp falls in nominal GDP recorded in Q2 (especially for the UK, on which see <u>slide 51</u>): Q2 nominal GDP will be used as the denominator for these estimates until Q3 data are available, beginning in November. Sources: <u>US Federal Reserve</u>; <u>European Central Bank</u>; <u>Bank of Japan</u>; <u>Bank of England</u>; <u>Bank of Canada</u>; national statistical agencies; Corinna.



### Central banks now hold significant proportions of total government debt in a growing number of countries

### Central bank holdings of central government bonds



Sources: Surprisingly, the RBA does not disclose its holdings of Australian Government bonds in its weekly balance sheet statement (see RBA Statistical Table A1. Hence the figure shown here for Australia at March 2017 was derived from ABS Finance and Wealth, and that for April 2020 by adding to RBA holdings as per the December 2019 issue of Finance and Wealth, disclosed RBA purchases of Australian Government bonds up to end-April, divided by the amount of Australian Government securities outstanding disclosed in the Government's Monthly Financial Statement. The figures for RBNZ holdings of NZ government securities are published in Table r1 on the RBNZ's website while figures for total NZ government securities outstanding are in Table D30. All others are from OECD, Economic Outlook No. 107 (June 2020) and No. 104 (June 2017).



### The Fed this month gave a bit more substance to the new monetary policy framework outlined by Chair Jerome Powell in August ...

- ☐ The Fed's policy-setting Open Market Committee last month approved changes to its <u>Statement on Longer-Run</u> <u>Goals and Monetary Policy Strategy</u>, which Jerome Powell enlarged on in his address to the (virtual) Jackson Hole policy conference hosted by the Kansas City Fed
- ☐ The Fed has adjusted its inflation target from "2%" to "an average of 2% over time"
  - this sounds a bit like the RBA's long-standing 'flexible inflation target' of '2-3% on average over the course of the cycle'
  - but the Fed is actually a bit more specific, spelling out that "following periods when inflation has been running persistently below 2%" (which it has been since 2012) "appropriate monetary policy will likely aim to achieve inflation moderately above 2% for some time"
- ☐ The Fed has also (significantly) changed the way it interprets the "maximum employment" part of its 'dual mandate'
  - the new Statement emphasizes that "maximum employment is a broad and inclusive goal" and that monetary policy decisions will be informed by its assessments of the "shortfalls of employment from its maximum level" rather than (as previously) "deviations from its maximum level" (emphasis in the original)
  - Powell explained in his speech that this means that "employment can run at or above real-time estimates of its maximum level without causing concern, unless accompanied by signs of unwanted increases in inflation or the emergence of other risks that could impede the attainment of our goals" (other risks probably refers to risks to financial stability)
- ☐ This month the Federal Open Market Committee (FOMC) formally committed to achieving "inflation moderately above 2% for some time so that inflation averages 2% over time"
  - and indicated that it will keep its target range for the Fed funds rate at 0-1/4% "until labour market conditions have reached levels consistent with [its] assessments of maximum employment and inflation has risen to 2% and is on track to moderately exceed [sic] 2% for some time"

### ... while the Bank of England is (like the RBNZ) entertaining the possibility of negative interest rates

- □ The minutes of the Bank of England's September 16<sup>th</sup> Monetary Policy Committee meeting indicate that the Committee had "been briefed on the Bank's plans to explore how a negative Bank Rate could be implemented effectively, should the outlook for inflation and output warrant it at some point"
  - this follows an extended discussion of the "pros and cons" of negative policy interest rates in the Bank's <u>August Monetary Policy Report</u>, which noted that moving to negative policy rates could be less effective in stimulating economic activity than previous reductions in [positive] rates, because interest rates on household deposits probably wouldn't go below zero, so that banks' profitability could fall, adversely affecting their ability to lend (and to pass negative rates on to their loan customers) which could in turn "provide a headwind to spending"
- ☐ The Reserve Bank of New Zealand is also actively considering the possibility of a negative official cash rate (OCR):
  - in May, the RBNZ's Deputy Governor <u>wrote to bank CEOs</u> informing them that "negative interest rate functionality ... remains a priority from an operational and risk management perspective" and asking them to "discuss [with the RBNZ] the purpose of zero interest rate floor clauses" in retail loan product documentation
  - The RBNZ's <u>August Monetary Policy Statement</u> reported that, having considered a range of 'alternative monetary policy tools' that could be used to "achieve its remit objectives", the Monetary Policy Committee "expressed a preference for a negative OCR, and a 'Funding for Lending' program (FLP) in addition to its current program of bond purchases"
  - The MPC this week <u>directed</u> the RBNZ to have an FLP "ready to deploy before the end of the year", while also indicating that it
    was "prepared to lower the OCR to provide additional stimulus if required"
- ☐ The ECB and BoJ have had negative policy interest rates since 2016 (slide 26) and the Swiss National Bank since 2014
  - it is perhaps instructive that none of these central banks have taken their policy rates further into negative territory since the
    onset of the pandemic (which is what one would have expected them to do if they believed that negative rates could
    stimulate economy activity (the main motivation for the SNB's negative rates appears to be preventing currency appreciation)
  - Sweden's Riksbank, which had instituted a negative policy rate in 2015, <u>abandoned the policy</u> in January this year, and hasn't reverted to it since the onset of the pandemic

## Concerns over slowing growth and Europe's 'second wave' saw stocks (except the ASX) down, bond yields a bit lower and the US\$ up 1¾-2%

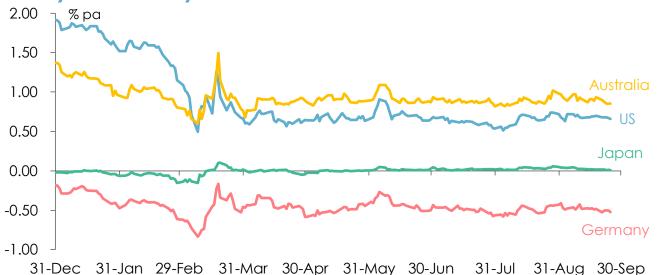
#### **Stock markets**



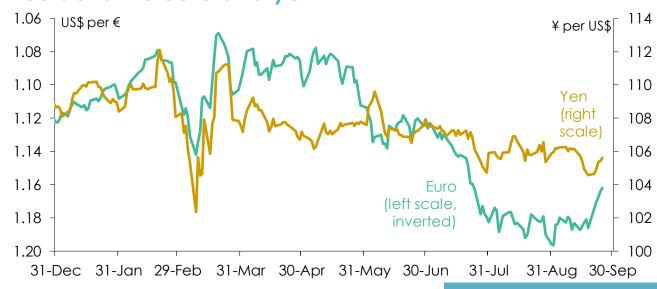
### Measures of market volatility



#### 10-year bond yields



US dollar vs euro and yen



### 'Quantitative easing' has prompted a more rapid acceleration in money supply growth than it did during the global financial crisis ...

#### M2 money supply growth





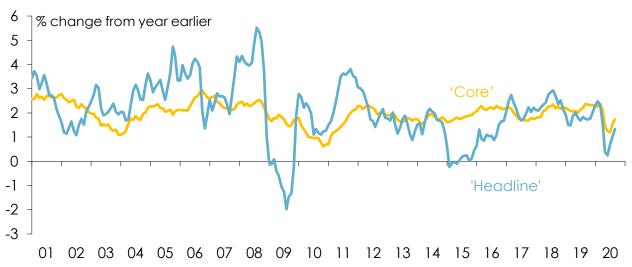




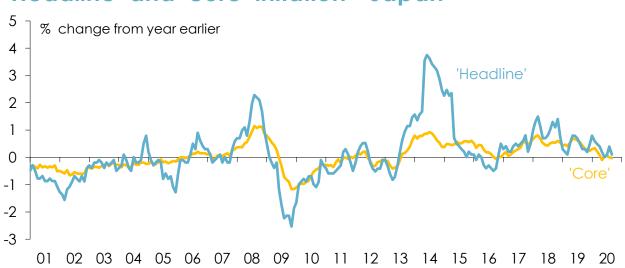


## ...but so far at least, inflation has remained below central bank targets – although both 'headline' and 'core' US inflation ticked up in July & August

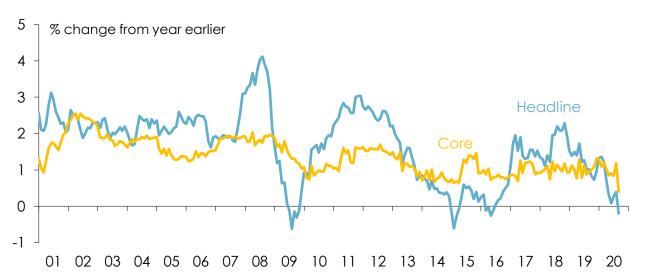
#### 'Headline' and 'core' inflation - US



### 'Headline' and 'core' inflation - Japan



#### 'Headline' and 'core' inflation – Euro area



#### 'Headline' and 'core' inflation – UK

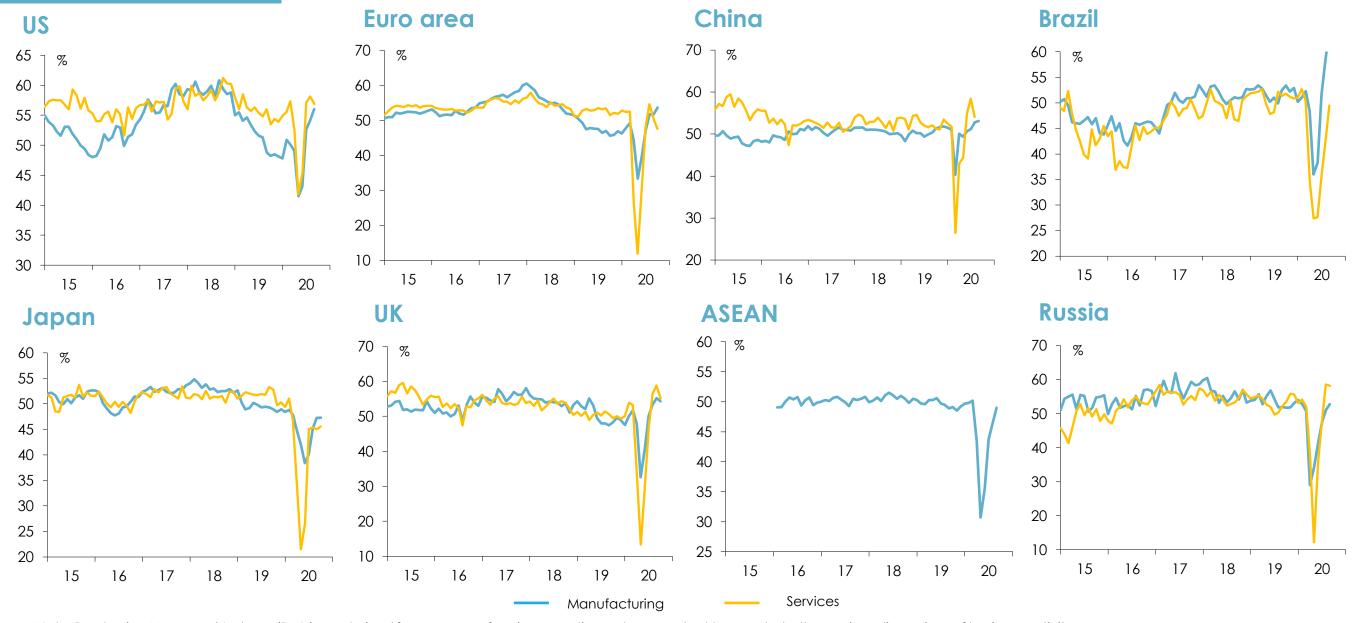


Note: 'Core' inflation is the CPI excluding food & energy in the US; excluding food, energy, alcohol & tobacco in the euro area; and excluding energy & seasonal foods in the UK. The 'core' inflation measure for Japan is the weighted median CPI calculated by the Bank of Japan.

Sources: US Bureau of Labor Statistics; Eurostat; Statistics Bureau of Japan; Bank of Japan; UK Office for National Statistics.



### Purchasing managers' indices (PMIs) point to further growth in manufacturing in August-September, but some softening in services activity

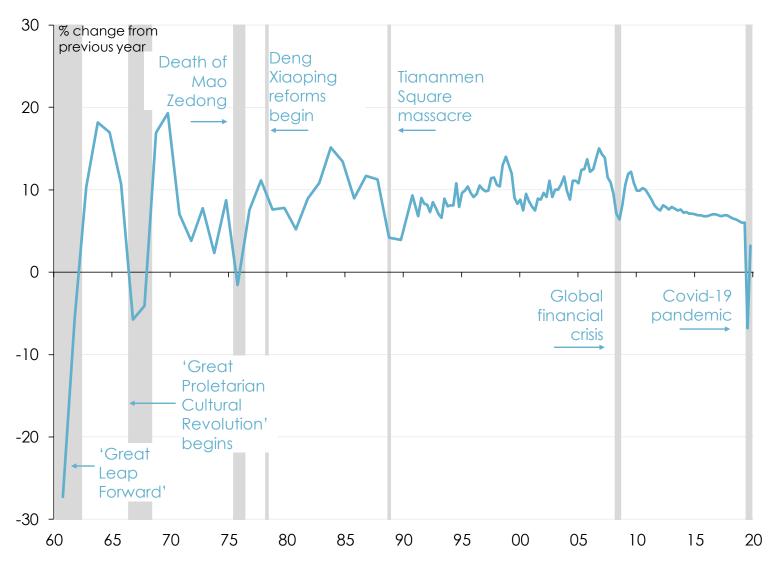


Note: Purchasing Managers' Indexes (PMIs) are derived from surveys of senior executives, who are asked to report whether various dimensions of business activity recorded an increase, decrease or no change compared with the previous month. A reading of 50 indicates an overall increase cf. the previous month, and a reading of less than 50 indicates a decrease. Latest data for Japan, the euro area and the UK are preliminary for September; all others are for August. See also PMIs for other Asia-Pacific economies on slide 41. Sources: US Institute for Supply Management; IHS Markit; Caixin; Refinitiv Datastream.

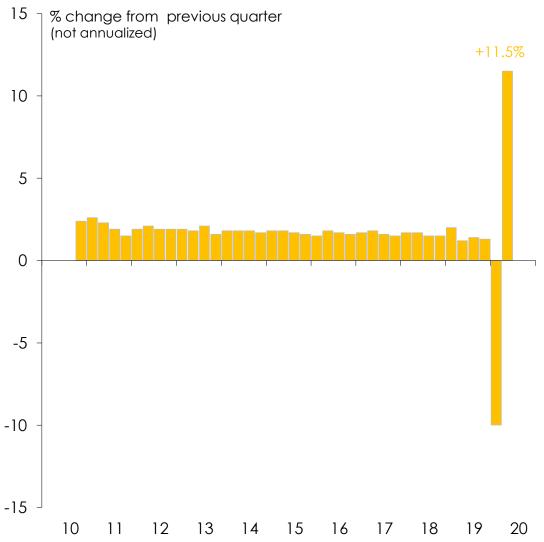


### China's economy rebounded strongly in Q2 from what had been the worst downturn in almost 60 years in Q1

### Real GDP growth, from year earlier, 1961-2020

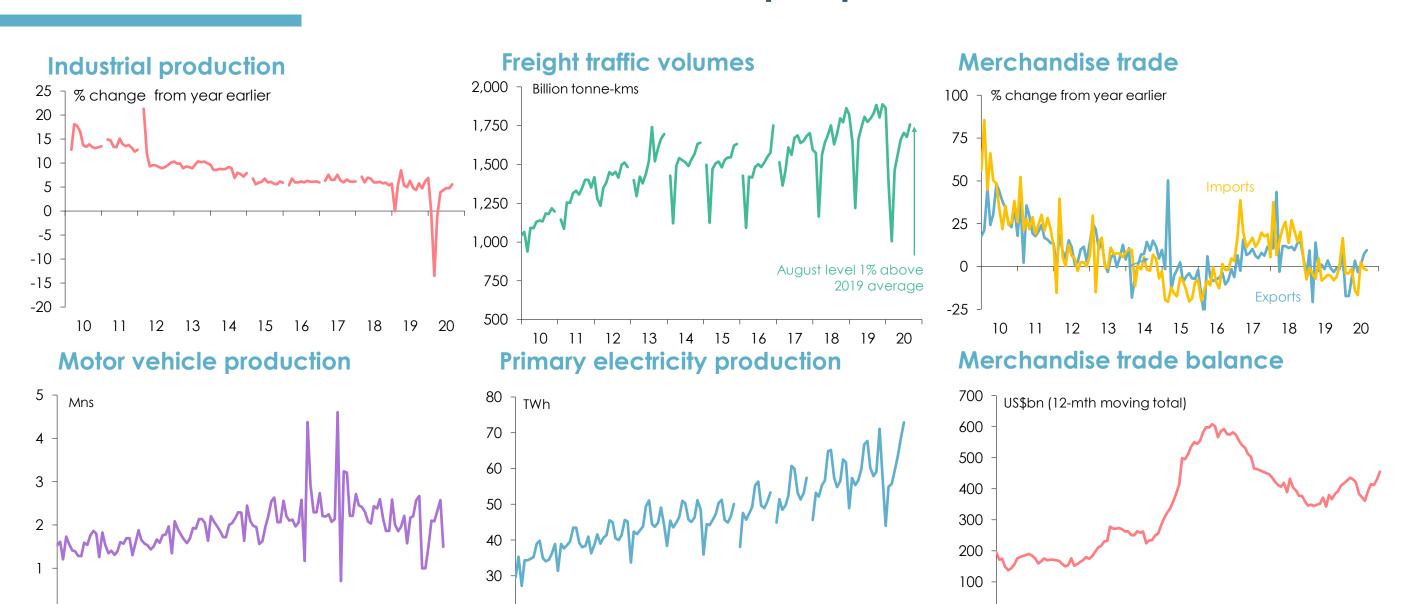


#### Quarterly real GDP growth, 2010-2020





### The production side of the Chinese economy has continued to recover in Q3 and some areas are almost back to pre-pandemic levels

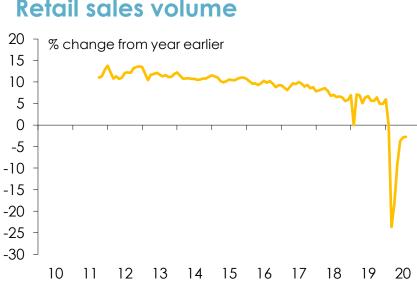


Sources: China National Bureau of Statistics; China Association of Automobile Manufacturers; China General Administration of Customs. Latest data are for August.

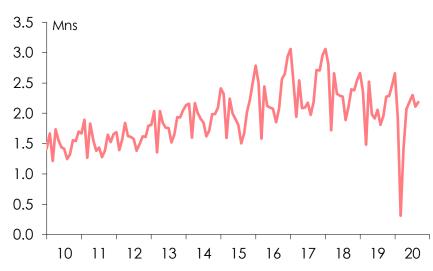


## However the 'demand' side of the Chinese economy – both household and business – is recovering rather more gradually

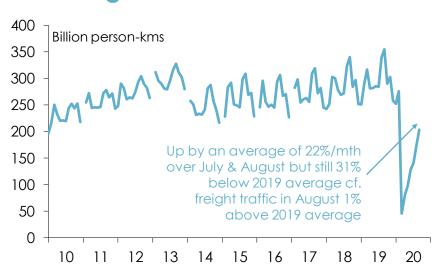
### 



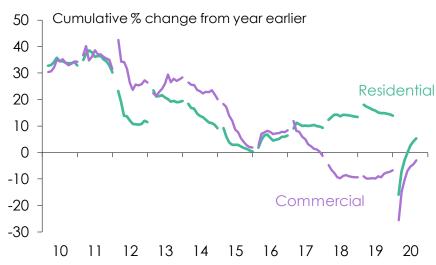
#### Motor vehicle sales



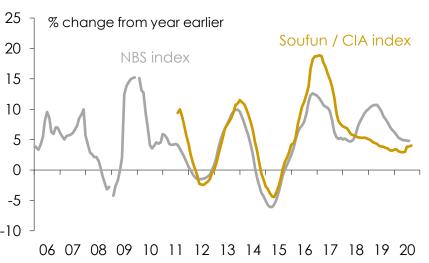
### Passenger traffic volumes



#### Real estate investment



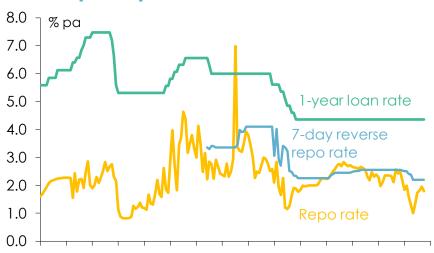
#### Residential real estate prices



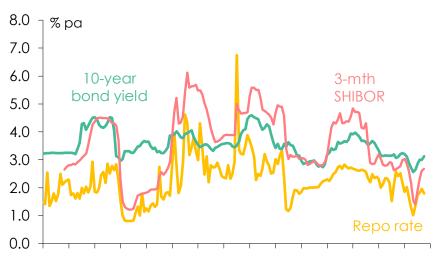


# The PBoC has been more cautious about stimulus than it was in 2008-09 or 2015-16, perhaps because it's still concerned about financial stability

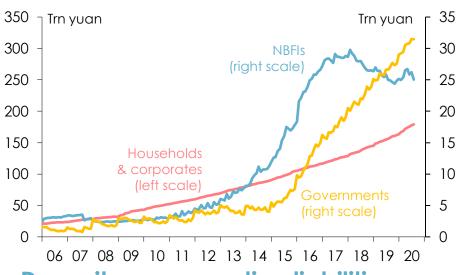
## **PBoC** policy interest rates



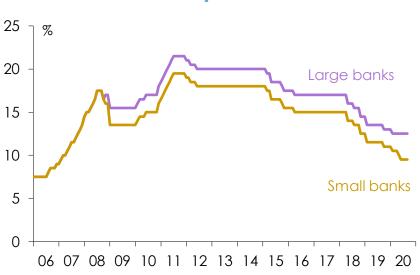
#### Market interest rates



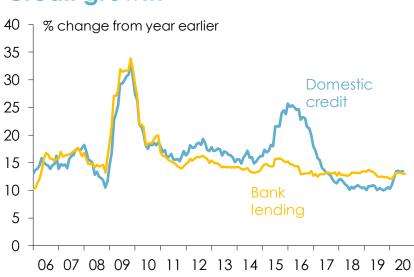
**Depository corporation assets** 



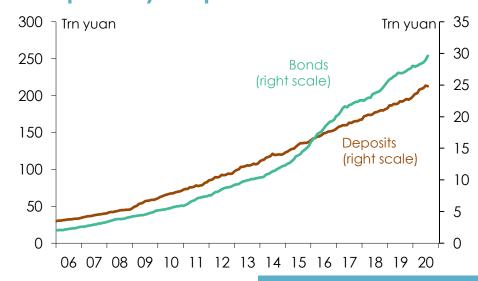
Bank reserve requirement ratios



**Credit growth** 



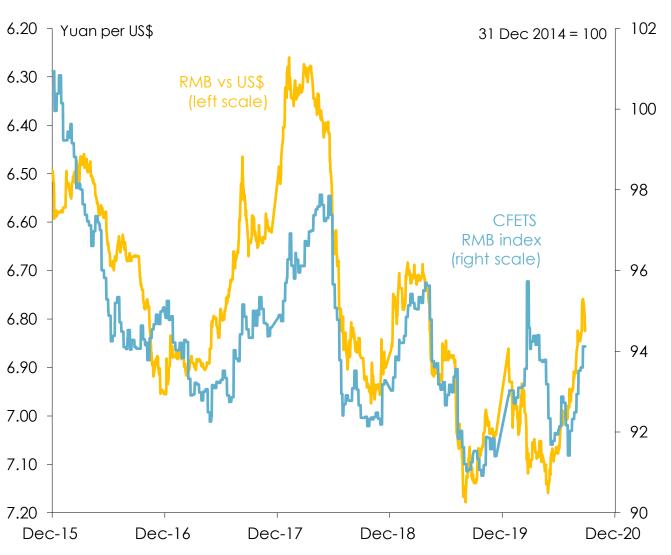
Depository corporation liabilities



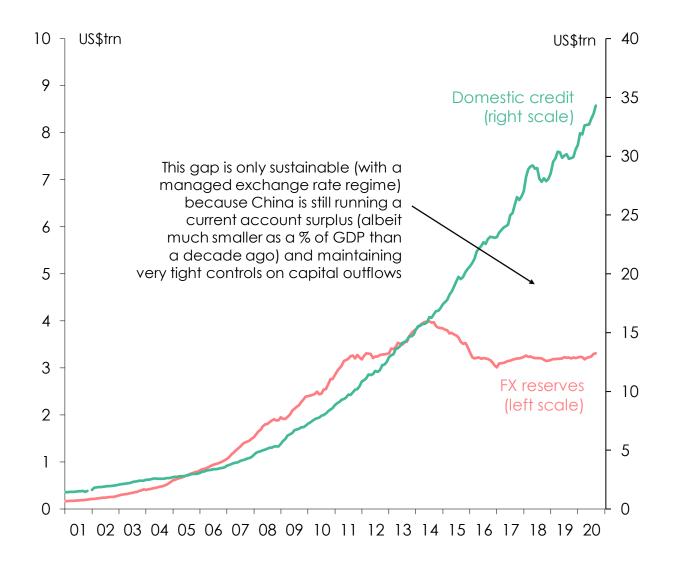


# The Rmb rose $1\frac{3}{3}$ in trade-weighted terms this week but fell almost 1% vs the US\$ (reflecting the strength in the latter)

## Chinese renminbi vs US\$ and trade-weighted index



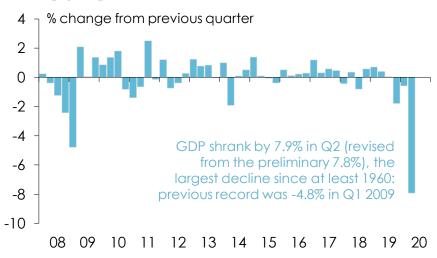
#### FX reserves and domestic credit



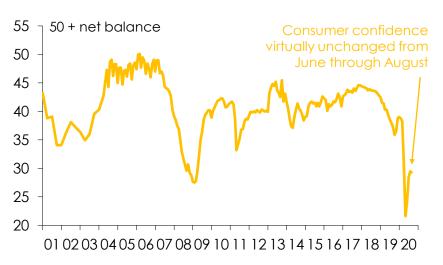


# Japan entered its fourth recession since 2000 after hiking its GST rate last October, and the pandemic has worsened it

#### Real GDP



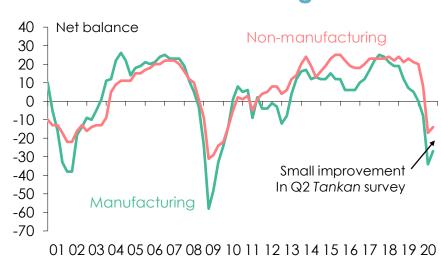
#### Consumer confidence



## **Unemployment**



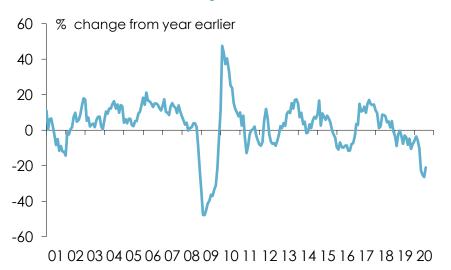
## **Business conditions – large firms**



## Motor vehicle sales

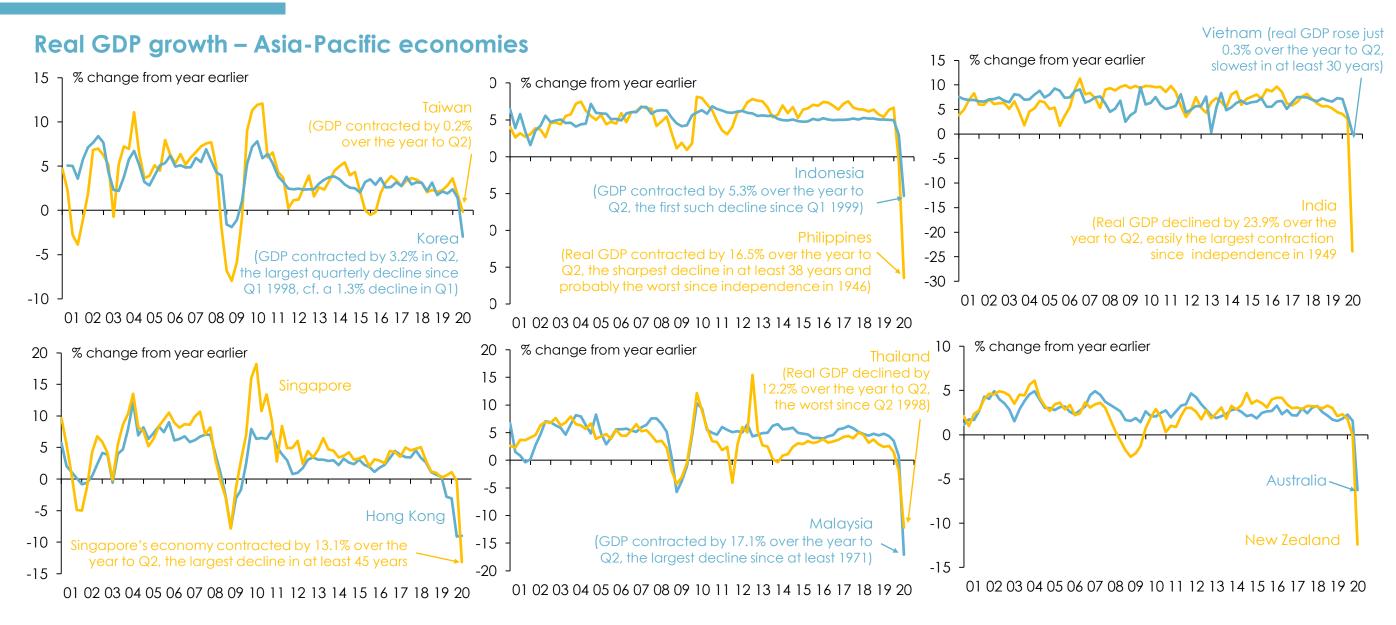


## Merchandise export volumes





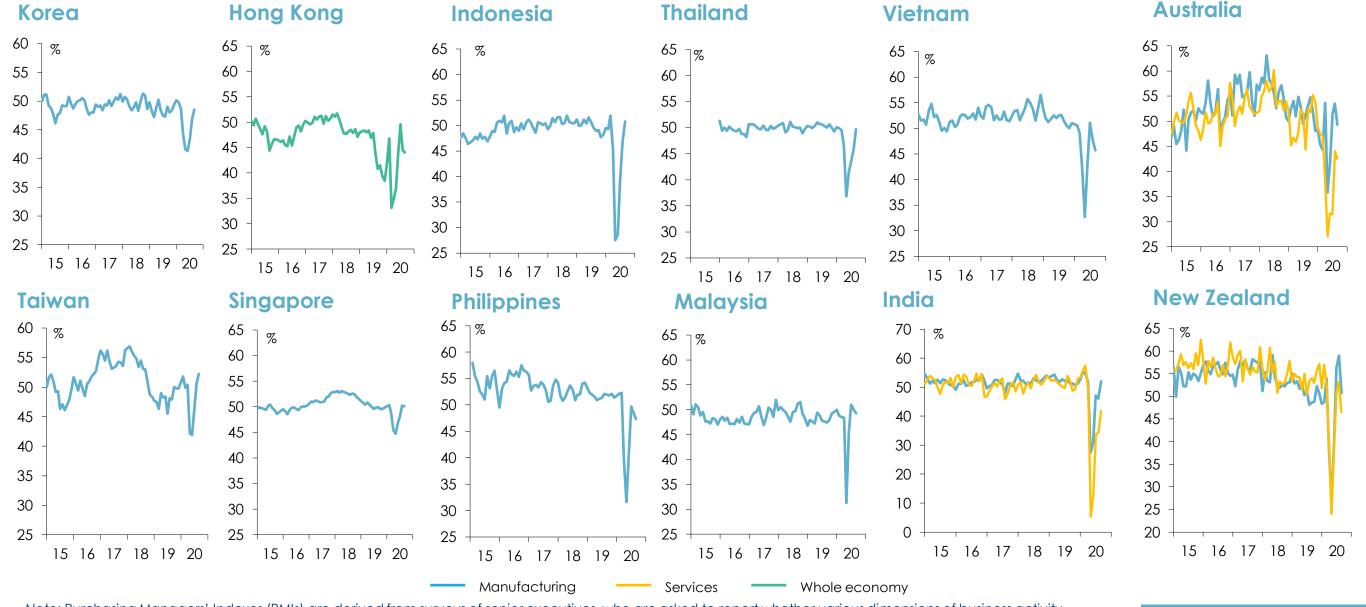
# All other Asian economies which have so far reported Q2 GDP numbers, except Vietnam, have experienced outright contractions from Q2 2019



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; Australian Bureau of Statistics; Statistics New Zealand.



# Manufacturing PMIs rose further in August in most Asia-Pacific economies except for Philippines, Vietnam, Australia & NZ: India services also still weak

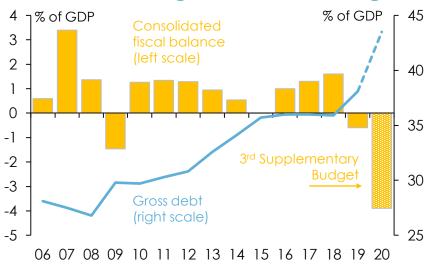


Note: Purchasing Managers' Indexes (PMIs) are derived from surveys of senior executives, who are asked to report whether various dimensions of business activity recorded an increase, decrease or no change compared with the previous month. A reading of 50 indicates an overall increase cf. the previous month, and a reading of less than 50 indicates a decrease. Latest data are for August.

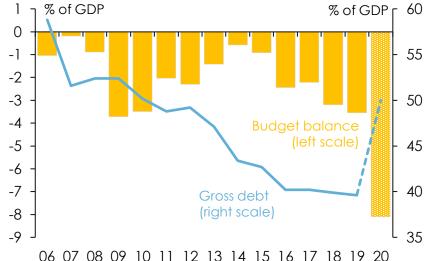
SAUL ESLAKE
CORINNA ECONOMIC ADVISORY

## The Korean and Philippines central banks have engaged in different variants of 'quantitative easing' ...

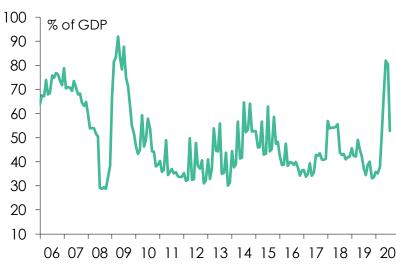
## Korea central government budget



## Philippines NG budget



#### **BoK domestic assets**



Philippines Bureau of the Treasury; Bangko Sentral na Pilipinas.

## BSP claims on national gov't

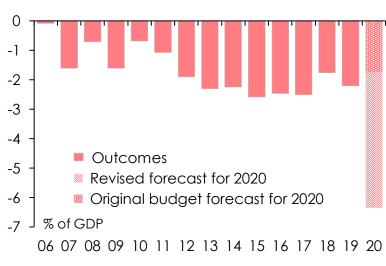


Sources: Korean Ministry of Economy and Finance; Bank of Korea; Philippines Development Budget Co-ordination Committee;

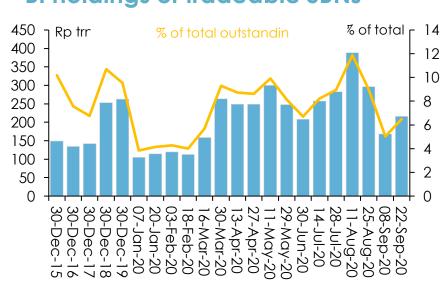
- The Bank of Korea has cut its policy rate by 100bp so far this year to a record low of 0.50%
- After its last rate cut in May, Governor Lee Ju-Yeol indicated the BoK was considering using 'unconventional monetary tools' to support arowth
  - since March, the BoK has been willing to supply 'unlimited liquidity' to financial institutions, accepting a wider range of collateral in repos
  - In April the BoK lent #8 trn to a #10 trn SPV established to buy corporate bonds and CP
- BoK's total domestic assets more than doubled between end-February and end-May - reflecting increased holdings of bonds, reverse repos and lending to both government and the private sector – but fell back to 53% in July, as loans were repaid and repos reversed
- The Philippines National Government (NG) expects its budget deficit to reach 8.1% of GDP this year, and public debt to rise to 50% of GDP
- In March, the BSP purchased ₱300bn (US\$6bn) of bonds directly from the Treasury Bureau under a 6-mth repo arrangement, and reportedly bought another ₱500bn in the secondary market through to the end of July

# ... as has Bank Indonesia, but its independence could be at risk from proposals currently under consideration

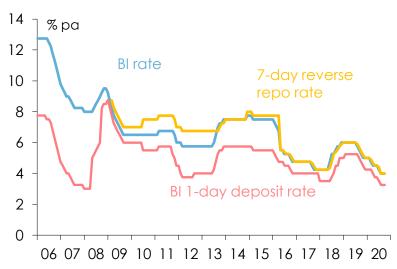
## Indonesia budget deficit



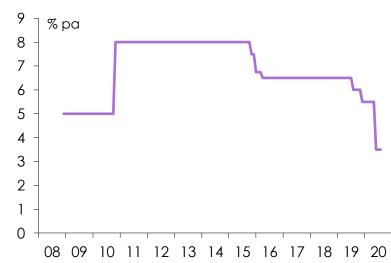
## BI holdings of tradeable SBNs



## BI monetary policy rates



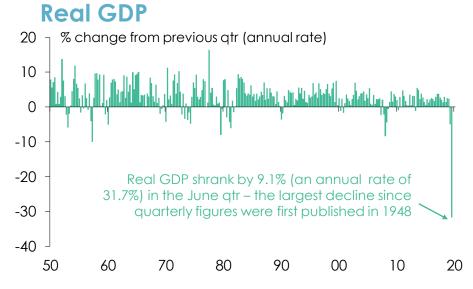
## Bank reserve requirement ratio

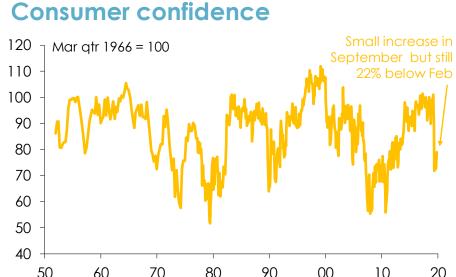


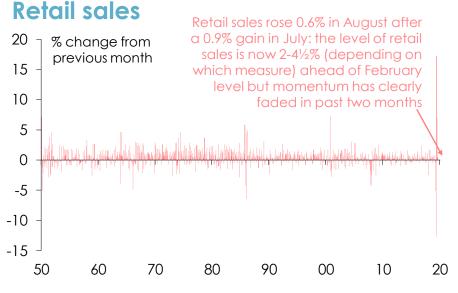
- In July, the Indonesian Government and Bank Indonesia (BI) formally agreed a 'burden-sharing' scheme under which BI will directly purchase bonds equivalent to 25% of this year's budget financing requirement (and return the interest received to the Government), as well as subsidizing interest payments on other bonds
  - as of 15<sup>th</sup> September BI had purchased Rp48 trn of SBN in the primary market, and provided an additional Rp 99trn through private placements for 'burden sharing' to fund public goods
- Finance Minister Sri Mulyani Indrawati and, separately, a group of parliamentarians, have proposed a 'Perppu' ('Decree in lieu of Law') on 'Financial System Reform' which would
  - give BI an employment mandate in addition to its inflation target;
  - give the Finance Minister and other ministers voting rights on the BI's policy-making board
  - 'allow' BI to purchase zero-coupon government bonds 'at a discount, and to provide 'temporary financing' to offset revenue shortfalls of up to 20% of revenue projections
  - transfer responsibility for bank supervision to BI from the Financial Services Authority (OJK)
- ☐ There's nothing untoward about the first or fourth of these proposals but the second is worrying, and the third could be as well

Sources: Indonesia Ministry of Finance (Kementarian Keuangan); Directorate of Government Debt Securities; Bank Indonesia.

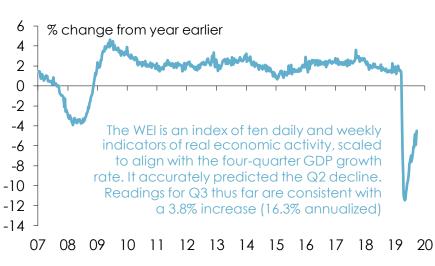
# The US economy experienced its sharpest contraction since the 1930s in the first half of 2020, although growth has turned moderately positive in Q3



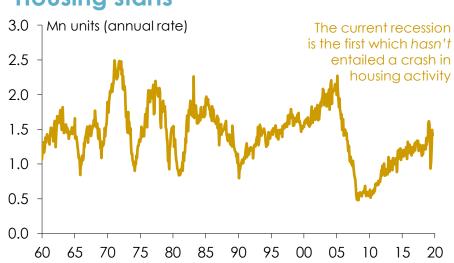




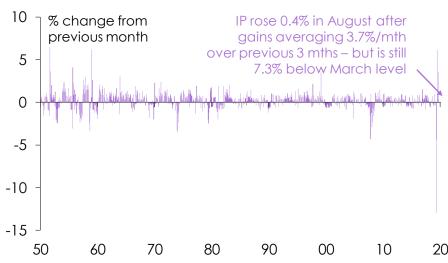
## NY Fed weekly economic index







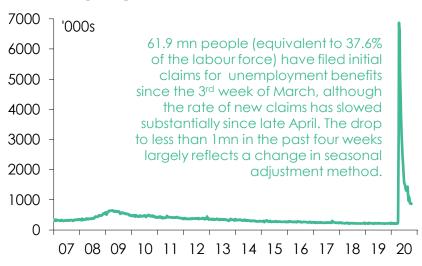
## Industrial production



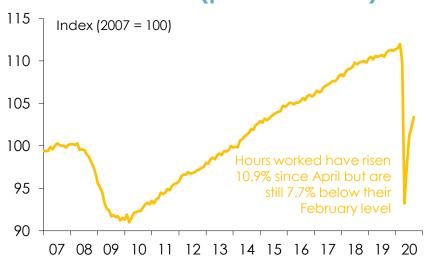


# 48% of the 22mn jobs lost in the US in March and April have been regained over the past four months while unemployment has fallen to 8.4%

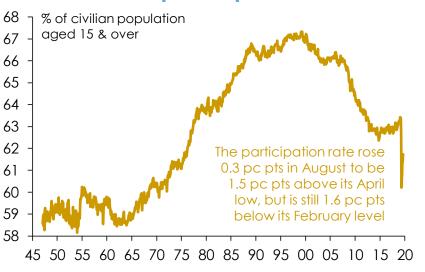
## **Unemployment benefit claims**



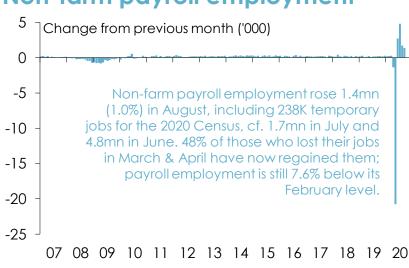
## Hours worked (private sector)



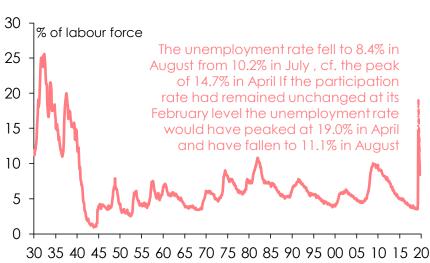
## Labour force participation rate



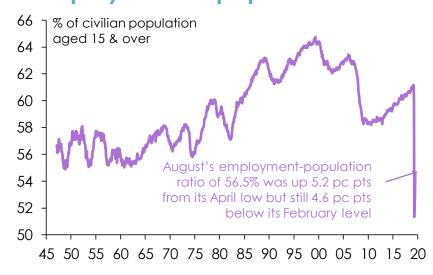
## Non-farm payroll employment



## **Unemployment rate**



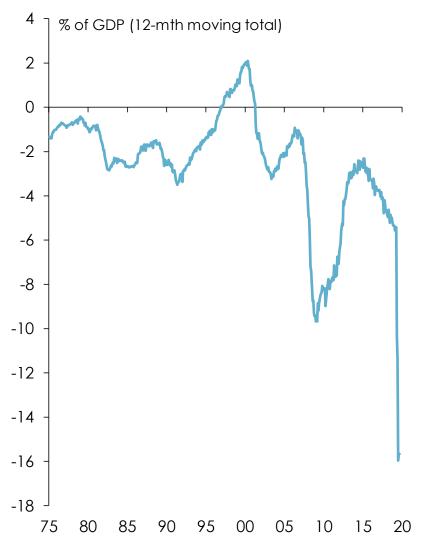
## **Employment to population ratio**



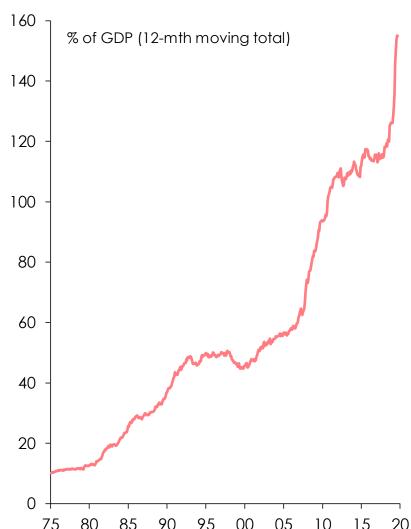


# The US budget deficit has blown out dramatically since the end of March, reaching nearly 16% of GDP in the 12 months ended August

## **US Federal budget deficit**



## **US gross Federal debt**



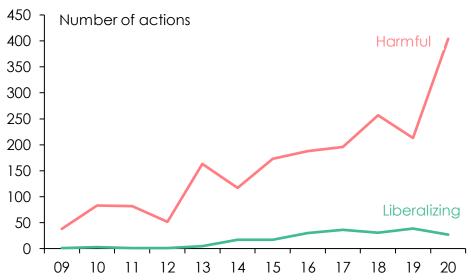
- The US budget deficit widened from US\$582bn (3.3% of GDP) in 2016 (Obama's last year in office) to US\$1 trn (5.4% of GDP) in 2019, while gross federal debt rose from US\$20.4 trn (115% of GDP) to \$24.1trn (126% of GDP)
- The budget was in deficit by US\$200bn in August, about the same as the two previous Augusts, after narrowing sharply to US\$63bn in July due to the receipt of tax payments deferred from the normal dates in Q2
- ☐ However the 12-month moving total deficit remains close to US\$3 trn (15.7% of GDP), cf. a peak of 9.7% of GDP during the GFC (and the largest since 20.8% of GDP in FY 1945)
- ☐ The market value of gross federal debt remained unchanged at \$29trn (155% of GDP)
- Last month the non-partisan Congressional Budget Office forecast that the deficit would blow out to US\$3.3trn (16% of GDP) in FY 2020 (the largest since 1945) and remain above US\$1trn pa until at least 2030, with gross debt reaching \$38trn by 2030

Note: The measure of US gross federal debt is at market value. Sources: <u>US Treasury Department</u>; <u>Federal Reserve Bank of Dallas</u>; US Bureau of Economic Analysis; <u>US Congressional Budget Office</u>; Corinna. September budget data will be released on 12<sup>th</sup> October.



# President Trump's tariffs have hurt consumers and business, haven't created jobs (on net), and haven't helped US 'national security'

## US trade policy actions



#### US customs duty revenue



- ☐ The Washington DC-based Brookings Institution this week published a <u>useful and</u> <u>incisive analysis</u> of the impact of the Trump Administration's trade policies
- ☐ It suggests, first, that the average American household has paid anywhere between "several hundred" and "a thousand dollars or more" per annum in higher prices attributable to tariffs
  - consistent with what is widely understood by economists, but (sadly) by few others, that
    tariffs are not something governments make foreigners pay to their goods into a country,
    but rather something they make their own consumers (or businesses) pay to keep foreign
    goods out of a country
- Second, it shows that while the Administration's tariffs have created 'several thousand' jobs in the US steel industry, and about 1,800 jobs in manufacture of washing machines, these and other gains in import-competing industries have been more than offset by "losses in industries that use imported inputs and face retaliation on their foreign exports"
  - moreover, American consumers appear to have paid (in total) U\$\$817,000 in higher prices for every new job in the washing machine industry, and U\$\$900,000 for every new job in the steel industry
- Third, it concludes that the Administration's trade policies have "made the US a less desirable trade partner for other countries"
- And fourth, it concludes that "while there might be a case for ensuring domestic production capacity" for items like steel or aluminium, the Administration's tariffs have "antagonized many of America's closest security partners" and made it "more difficult for the US to push back when other countries cloak protectionism in tenuous appeals to national security"

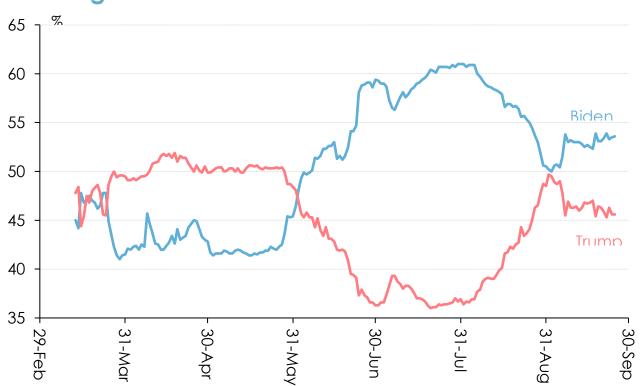
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# Biden's lead over Trump in opinion polls and betting markets widened a bit over the past week: but Trump seems willing to do anything to avoid losing

## Winner of November US Presidential election – average of all opinion polls



## Winner of November US Presidential election – betting odds

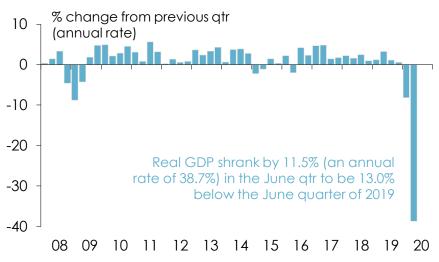


- For a detailed and disturbing account of how the outcome of the election could be thwarted in the event that the incumbent President isn't clearly re-elected on Election Night (3<sup>rd</sup> November) read Barton Gellman's "The Election That Could Break America", which will be the 'cover story' in next month's hard copy of The Atlantic magazine
- □ Tasmanian readers may remember <u>what happened</u> when a (remarkably) similarly confrontational, divisive and unprincipled incumbent sought to thwart the outcome of the state election held on 13<sup>th</sup> May 1989, at which his government was defeated

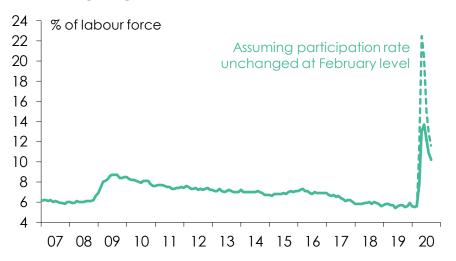


# Canada has had a more severe recession than the US – or Australia (although Canadian house prices are holding up remarkably well)

#### **Real GDP**



## **Unemployment rate**



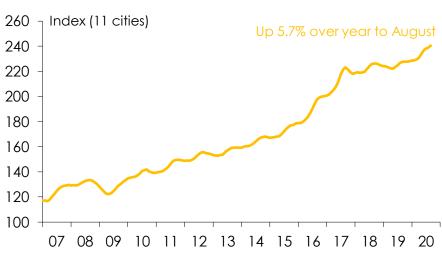
#### Merchandise trade balance



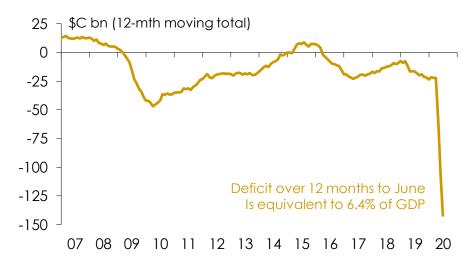
#### CFIB 'business barometer'



## **House prices**



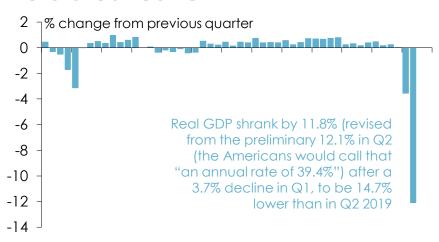
## Federal budget balance



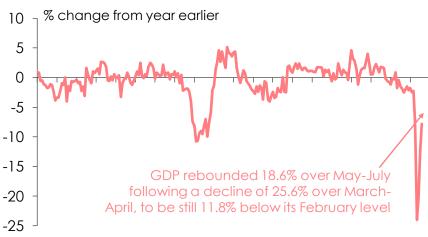


# Europe has experienced a larger contraction in real GDP than the US – although unemployment hasn't risen nearly as much

#### **Euro area real GDP**

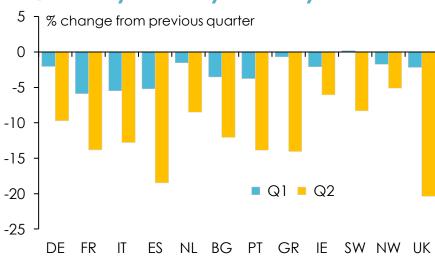


## **UK monthly GDP**

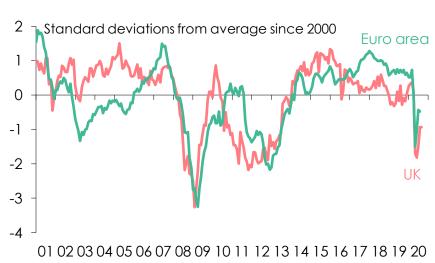


01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20

## Quarterly GDP by country



## Consumer confidence

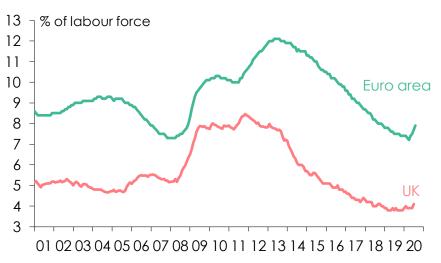


#### Retail sales volume



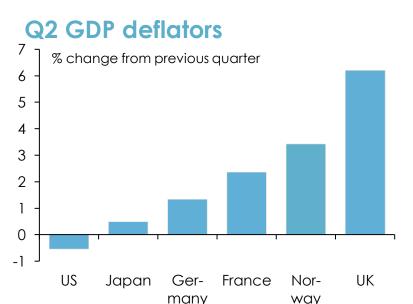
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20

## Unemployment

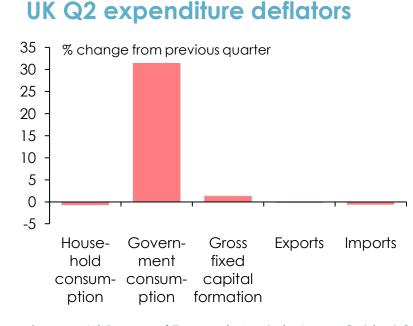




# There's something fishy about the deflators used in compiling the UK's Q2 national accounts



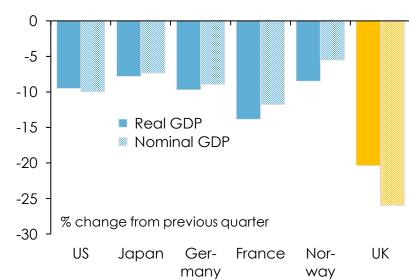
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## Q2 gov't consumption deflators



Q2 real and nominal GDP

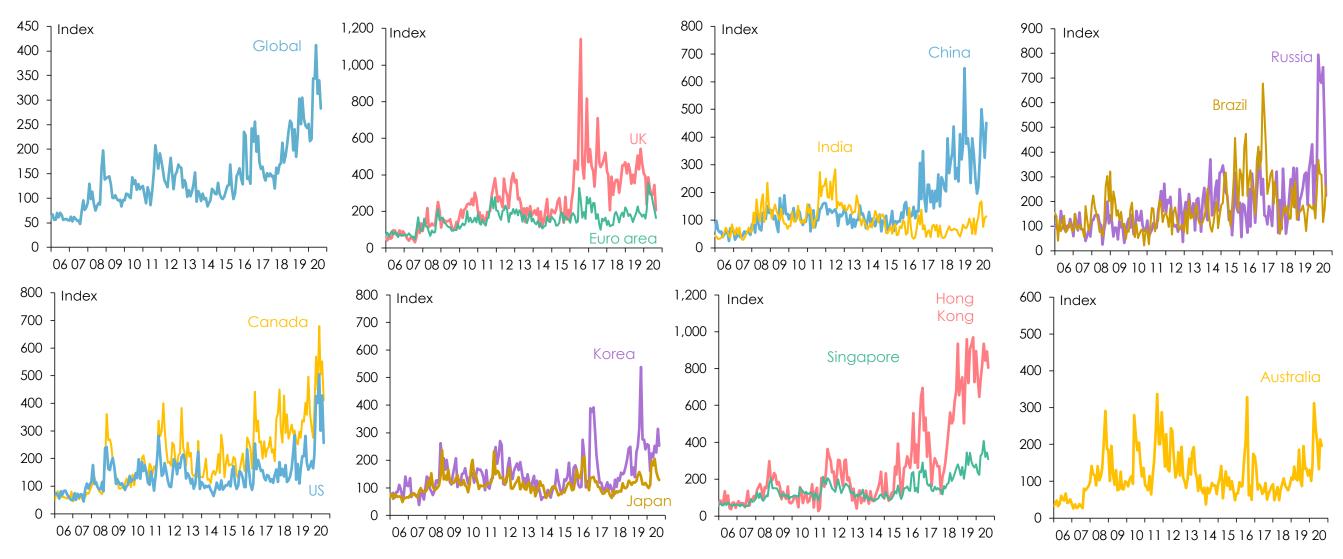


- According to the UK's Office for National Statistics, the UK's real GDP fell by 20.4% in Q2, but nominal GDP fell by 25.9% implying that prices (as measured by the implicit price deflator of GDP) rose by 6.2% in Q2
- This is totally inconsistent with all other measures of UK inflation in Q2 for example the CPI was flat, producer output prices fell 0.3% and producer input prices fell 7.3%
- Closer inspection of the Q2 national accounts shows that the main contributor to the rise in the GDP deflator was a 33% increase in the deflator for government consumption
- ONS commentary on the Q2 estimates implies that this was a by-product of the way they accounted for school closures, cancellation of elective surgery, etc, due to Covid-19
- However none of the other major economies which have so far published Q2 national accounts have reported anything similar
- It could be that real GDP fell by (even) more in Q2 than estimated, or nominal GDP by less



# Uncertainty about economic policy declined everywhere but China in August, but remains elevated by historical standards in most economies

## **Economic policy uncertainty indices**



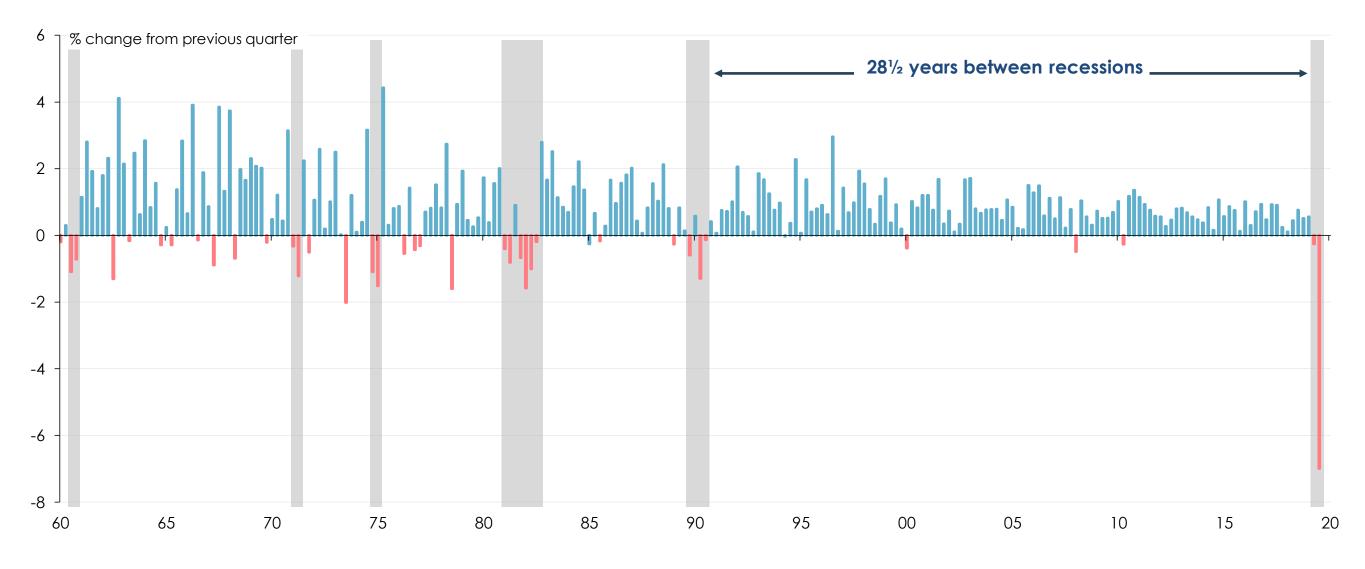
Note: The Economic Policy Uncertainty Index is derived from a count of newspaper articles containing the words "uncertain" or "uncertainty", "economy" or "economic", and policy-relevant terms pertaining to regulation, monetary or fiscal policy, central bank, taxation, tariffs, deficit, budget, etc. The index for the euro area is a GDP-weighted average of indices for Germany, France, Italy, Spain, the Netherlands and Ireland constructed by Corinna. Latest data are for June 2020. Source: Global Policy Uncertainty; Scott Banker, Nick Bloom & Steven Davis, 'Measuring Economic Policy Uncertainty', Quarterly Journal of Economics, 131, no. 4 (November 2016), pp. 1593-1636.



## Australia

# Australia's record-breaking run of almost 30 years without a recession has come to an end

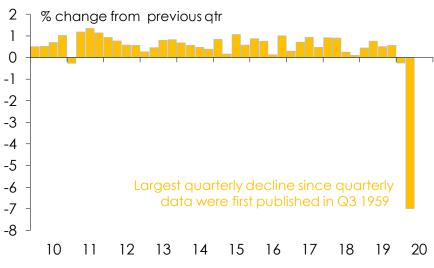
## Quarterly growth in Australian real GDP, 1960-2020



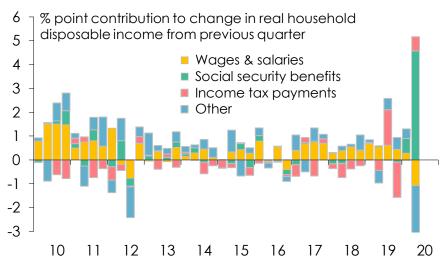


# Real GDP fell a record 7.0% in Q2 after a 0.3% decline in Q1, the first time there have been two consecutive declines since Q1 and 12 1991

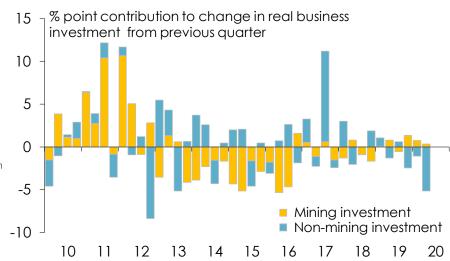
## Quarterly change in real GDP



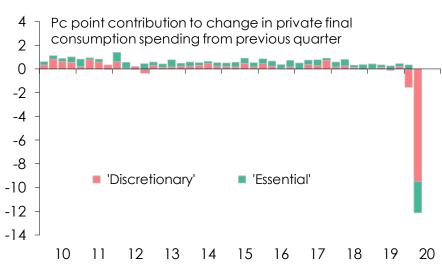
## Household disposable income



## **Business investment expenditure**



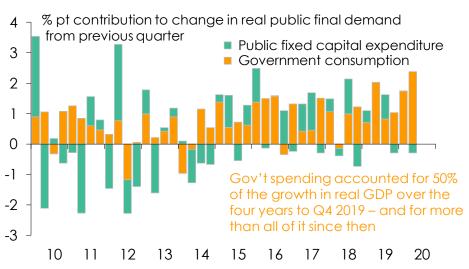
## Household consumption expenditure



## Household saving rate



## **Public expenditure**



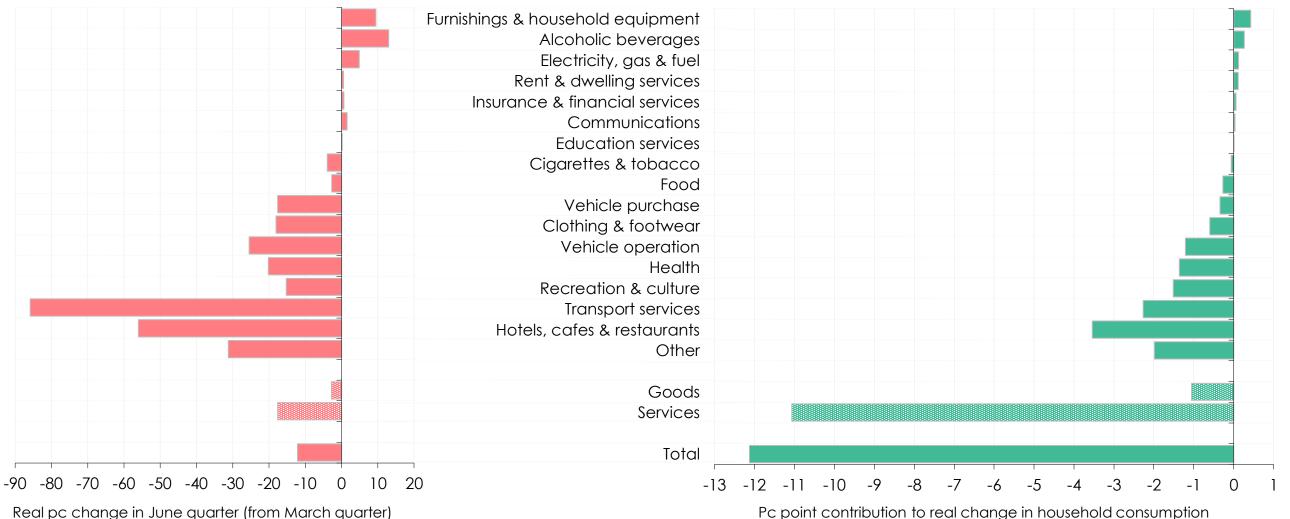
Note: 'Essential' household consumption expenditure comprises food; rent & other dwelling services; electricity, gas & other fuel; operation of vehicles; rail, bus & taxi services; communications; health; education; and insurance & other financial services. Components of household disposable income are deflated by the implicit price deflator of household final consumption expenditure. Source: ABS. September quarter national accounts will be released on 2<sup>nd</sup> December.



## The record 12.1% fall in consumer spending in Q2 was largely driven by sharp declines in spending on discretionary services

Change in household consumption spending, by category, June quarter





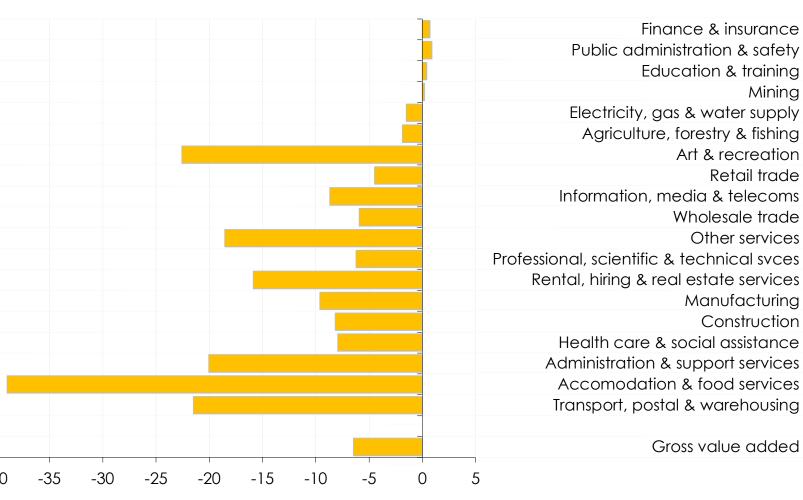
Pc point contribution to real change in household consumption expenditure in June quarter (from March quarter)



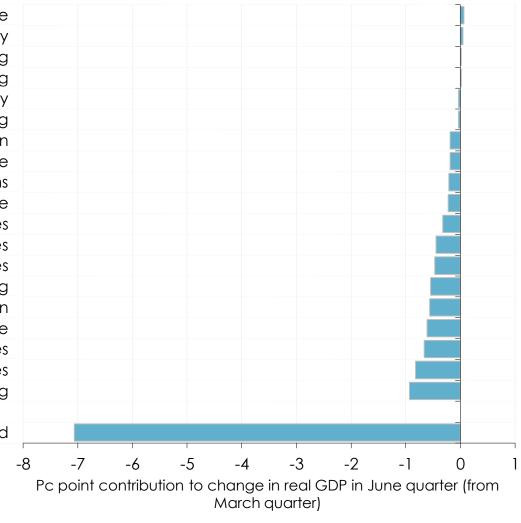
# From an industry standpoint the record decline in real GDP in Q2 was driven by falls in manufacturing, construction and private sector services

Change in real gross value added, by industry, June quarter

Pc change in June quarter (from March quarter)



## Contribution to change in real GDP, by industry, June quarter



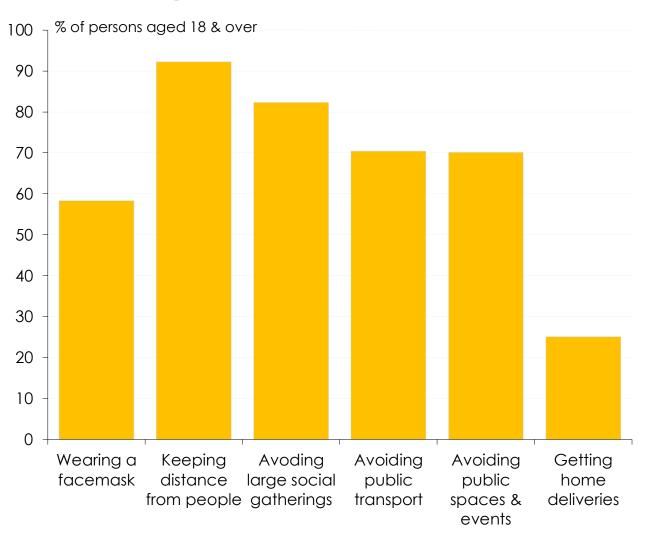
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## The path out of the current downturn will be more gradual than the path into it was

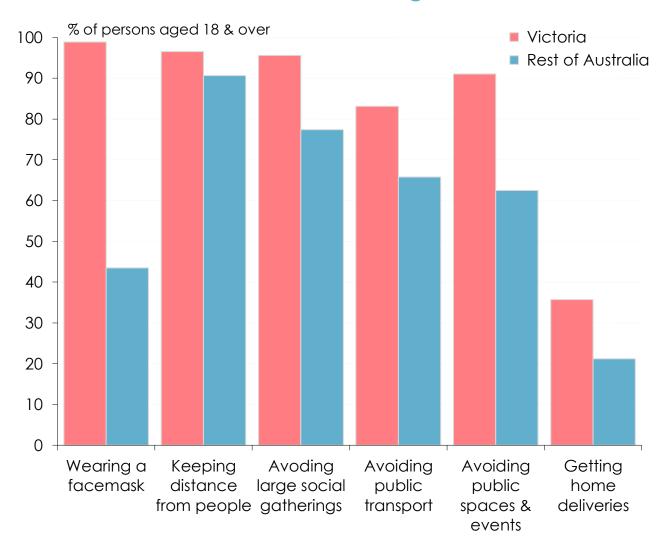
- □ 'Social distancing' requirements will be relaxed gradually rather than 'all at once' and (as seen in Victoria) restrictions can be re-imposed in response to new outbreaks)
  - new health and safety regulations will likely limit the number of employees and customers who can be 'on premises'
     (which may make it uneconomic for some businesses to re-open until restrictions are relaxed
  - and many people may remain wary of exercising all of their newly-regained 'freedoms' (see next slide)
- ☐ At least some businesses won't have survived the shutdown period, and many of those which do will not immediately return to pre-outbreak levels of employment
  - so employment will remain below pre-outbreak levels for some time rather than 'snapping back' quickly
  - and those returning to work may work reduced hours (compared with pre-outbreak) for some time
- ☐ The recovery in household spending is likely to be gradual, rather than rapid
  - if the recovery in employment is only gradual, so too will be the recovery in household disposable income
  - some households will be able to draw down on savings accumulated during the shutdown (see <u>slide 55</u>), but others will want to rebuild savings (or superannuation balances) drawn down over the past six months
  - households with mortgages who have deferred repayments will face higher or longer mortgage repayments, constraining their spending capacity to some extent
  - household spending may also be affected by 'negative wealth effects' from lower property prices
- □ Despite the recent extensions to JobKeeper and Jobseeker, on current policy settings there will still be an effective tightening of fiscal policy at the beginning of each of the December and March quarters
- □ International borders (except with NZ) will likely remain closed until a vaccine is widely available which is in turn likely to be at least 12 months away
  - implying that there will be no near-term recovery in international tourism or international education
- ☐ Businesses are likely to be very hesitant about investment spending for an extended period

# Australians are continuing to adhere to a wide range of precautions, even where it's not mandatory (as in Victoria)

## Precautions taken by Australians aged 18 and over, mid-August 2020



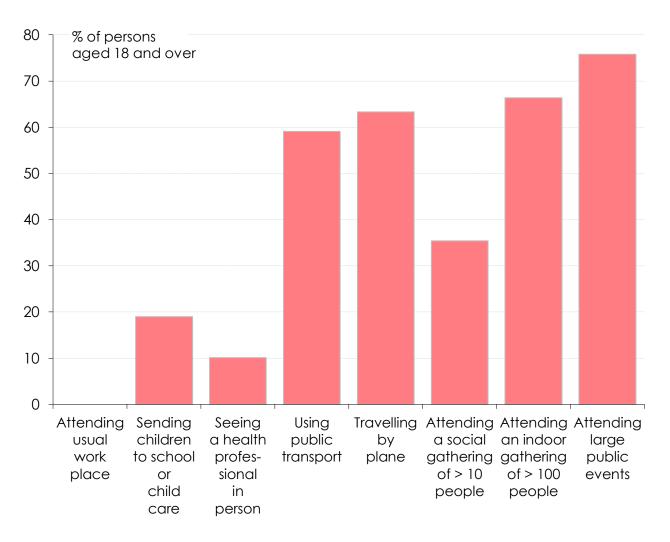
## Precautions taken by people living in Victoria and elsewhere in Australia, mid-August 2020



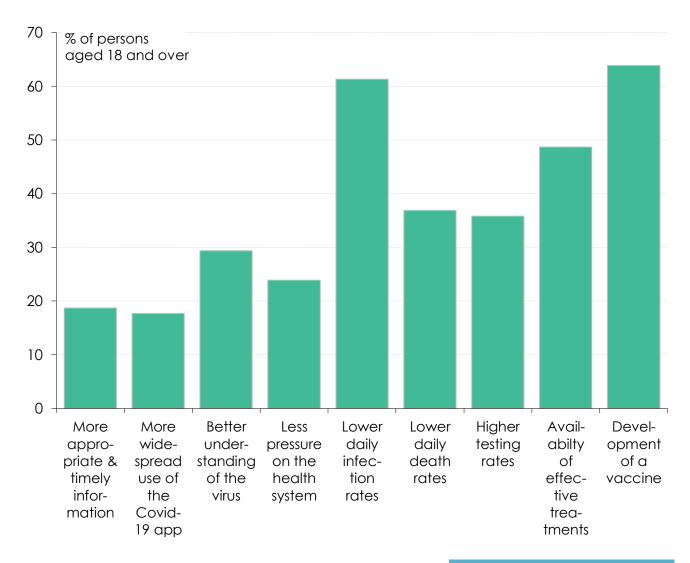


# Australians seem likely to continue to be wary of travel and large gatherings, at least until a vaccine for Covid-19 is developed

## Proportion of adults feeling 'uncomfortable' with selected activities as restrictions are eased



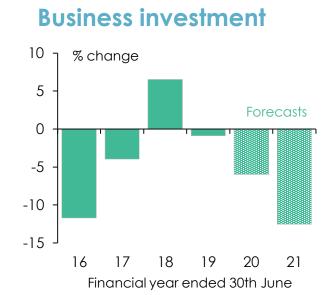
## Actions that would improve people's comfort with activities as restrictions are eased

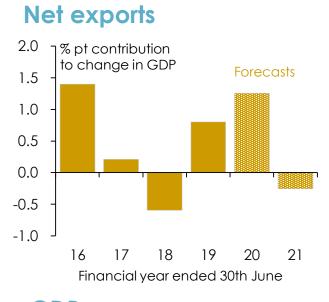


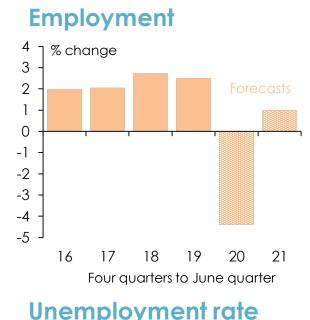


# Treasury's most recent forecasts, published in late July, will be revised (downwards, except for unemployment) in the Budget on 6<sup>th</sup> October

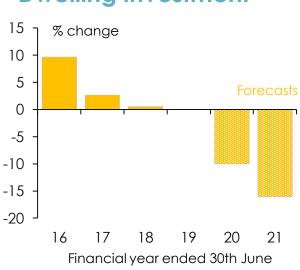
# Household consumption 4.0 3.0 2.0 1.0 0.0 -1.0 -2.0 -3.0 16 17 18 19 20 21 Financial year ended 30th June

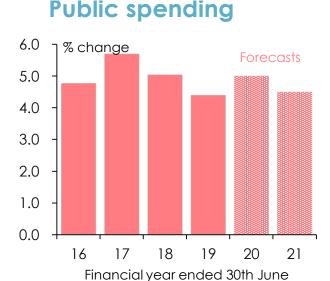


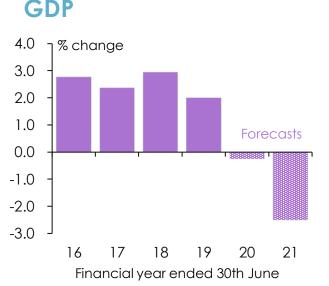


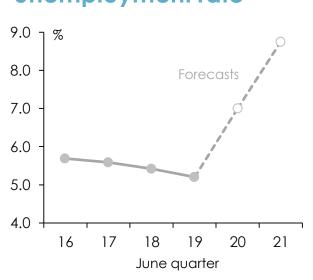








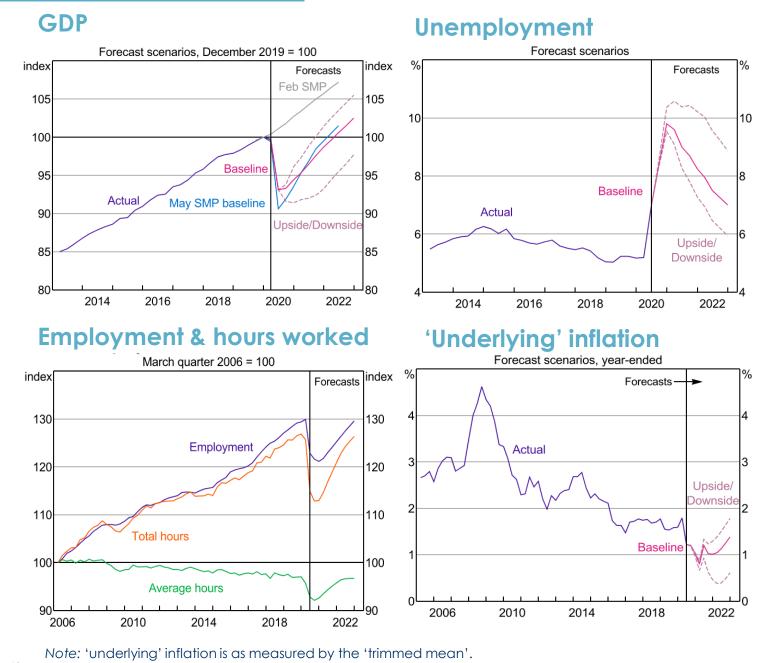




Note: Business investment and public spending exclude transactions in second-hand assets. Employment growth is June quarter on June quarter; unemployment rate is June quarter. Assumptions include current restrictions in Melbourne ending after 6 weeks, no further restrictions imposed, and other restrictions being eased in line with the '3-step process' outlined by the Government on 8<sup>th</sup> May. Net overseas migration assumed to fall from 232K in 2018-19 to 154K in 2019-20 and 31K in 2020-21; international travel bans lifted from 1<sup>st</sup> January 2021; the iron ore price falling to US\$55/t FoB by end-2020; metallurgical and thermal coal prices remaining at US\$110/t and \$54/t FoB respectively; and the A\$ remaining at around US69¢. Sources: ABS; Australian Treasury, Economic and Fiscal Update, 23<sup>rd</sup> July 2020.

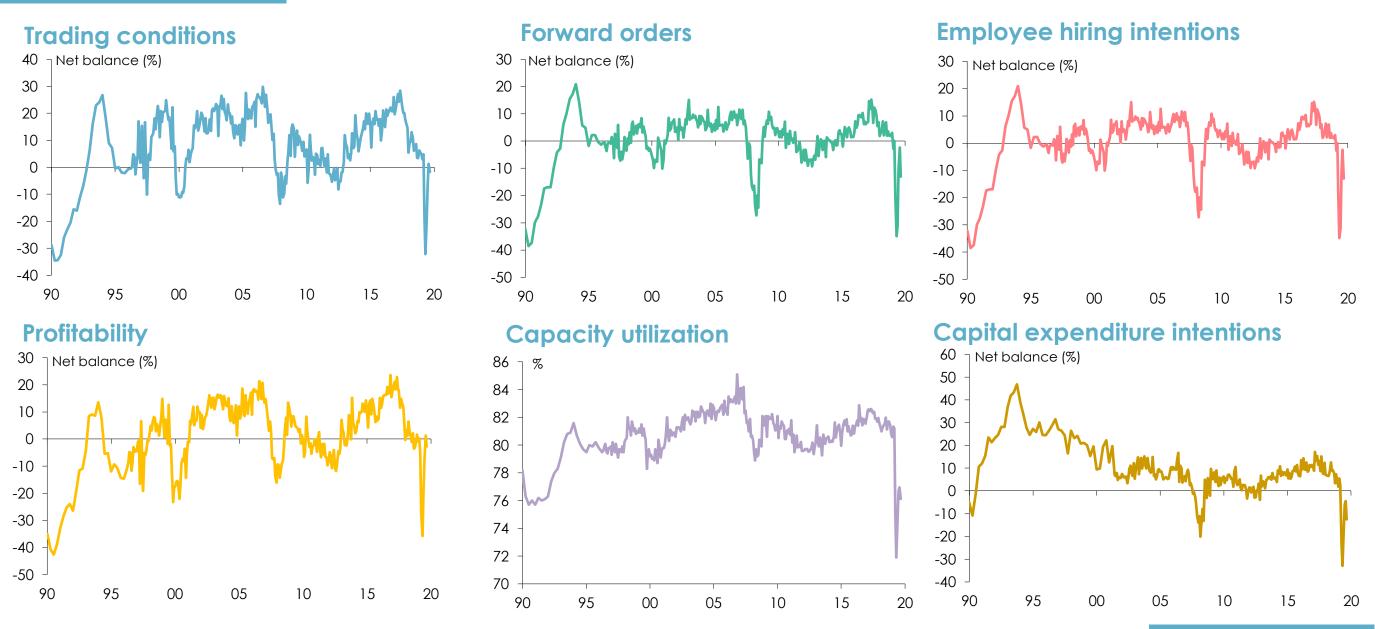


## In its latest quarterly Monetary Policy Statement, the RBA slightly lowered its sights on the economic recovery from the pandemic



- The short-run economic effects of the initial 'lockdown' turned out to be less than the RBA had assumed in May – but it thinks the "on-going effects of weak demand are likely to be larger", with additional headwinds stemming from the new Victorian 'lockdown'
- The RBA's latest 'baseline' scenario envisages real GDP declining by 6% over the year to Q4 (4% for 2020 as a whole) and rising by 5% (previously 6%) over the year to Q4 2021 (2% for the year as a whole), with 'official' unemployment peaking at 10% in Q4 (rather than Q2 as previously) and declining slowly to  $8\frac{1}{2}$ % by Q4 2021 (previously  $7\frac{1}{2}$ %) and to 7% by Q4 2022
- In an 'upside scenario' where the virus is contained more quickly and domestic restrictions lifted sooner, the unemployment rate would decline more quickly during 2021 and 2022, reaching 6% by Q4 2022
- But in a 'downside' scenario entailing periodic regional outbreaks of the virus and 'rolling lockdowns', with a widespread resurgence of infections globally, economic recovery would be delayed, unemployment would peak at ~ 11% and still be around 9% by Q4 2022
- In the RBA's 'baseline' scenario underlying inflation picks up gradually from 1% over the year to Q4 2020, to  $1\frac{1}{2}$ % by Q4 2022 – but still remains below the target band. even in the 'upside' scenario

# All of the components of the NAB business conditions index fell back in August after having made strong gains in July

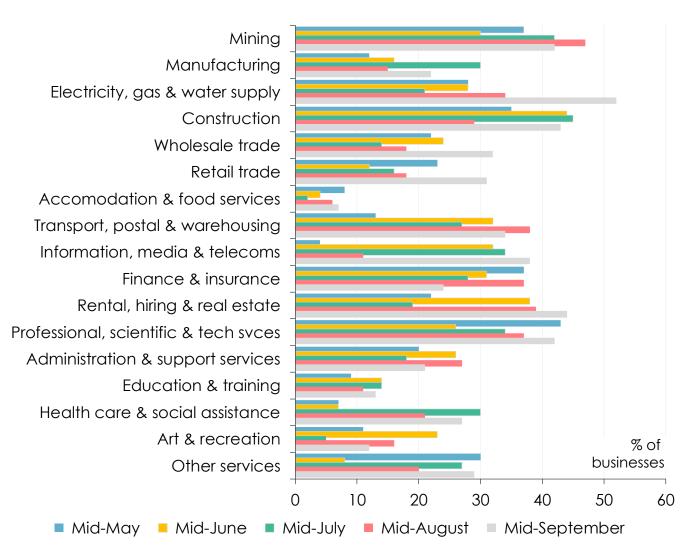


Note: Quarterly data up to March 1987 (May 2002 for capex intentions), monthly thereafter (latest data August 2020). See also chart of business confidence on <u>slide 78</u>. Source: National Australia Bank <u>Monthly Business Survey</u> August 2020; August survey results will be released on Monday 5<sup>th</sup> October (the day before the delayed federal Budget).

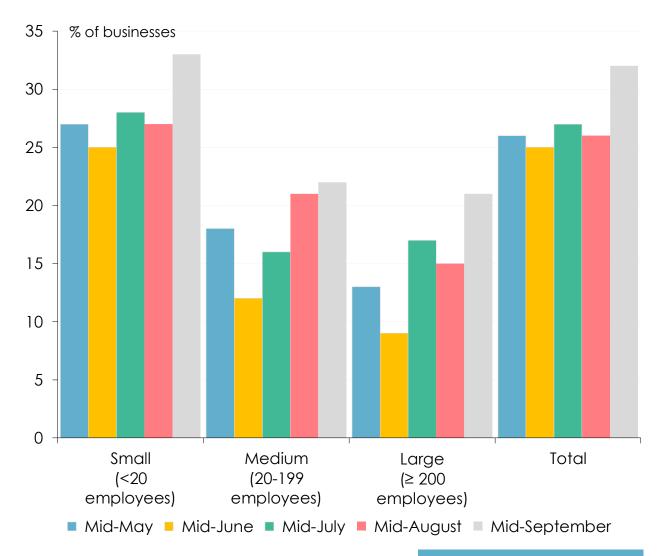


## Almost one-third of businesses were operating 'as normal' in mid-September – up from one-quarter in each of the previous four months

## Proportion of 'trading businesses' which are operating 'as normal' – by industry



## Proportion of 'trading businesses' which are operating 'as normal' – by size



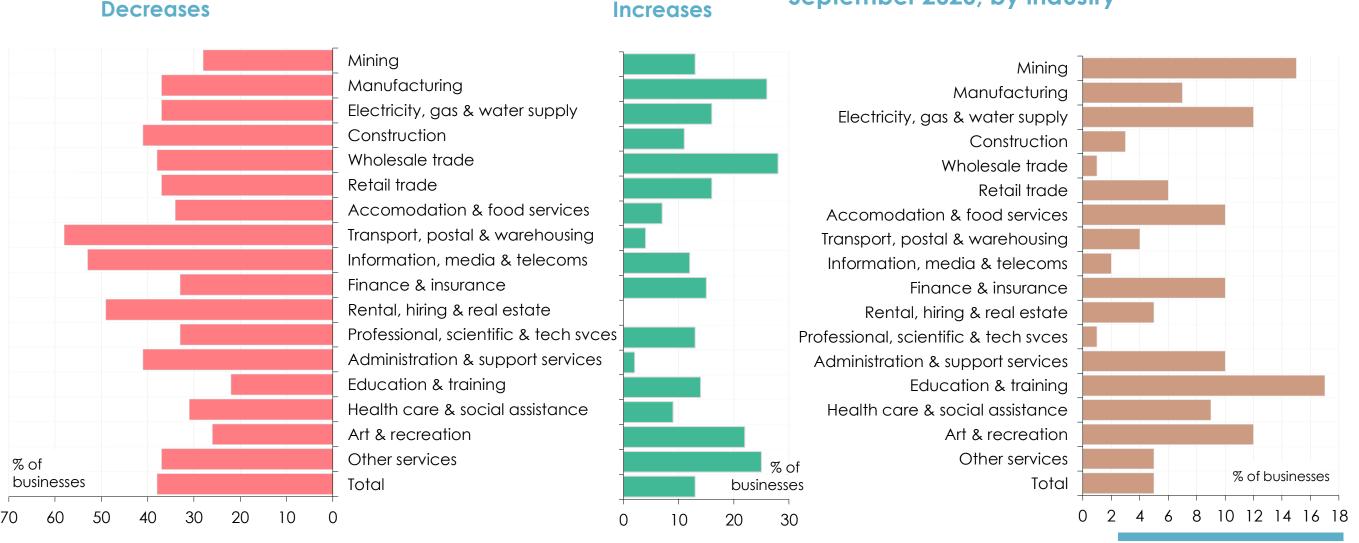


# 38% of all businesses reported lower revenue in September – down from 41% in August and 66% in June, but only 5% plan to increase in employment

Proportion of businesses reporting decreases or increases in revenue in September 2020, by industry

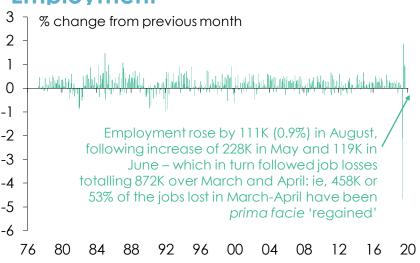
Proportion of businesses planning to increase employee numbers in the next month, September 2020, by industry

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# 458,000 (53%) of those who lost their jobs in March-April are now back at work, although only 11% of those job gains have been full-time

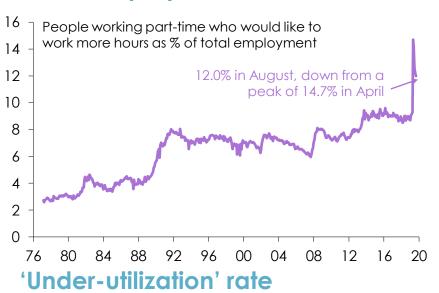
#### **Employment**



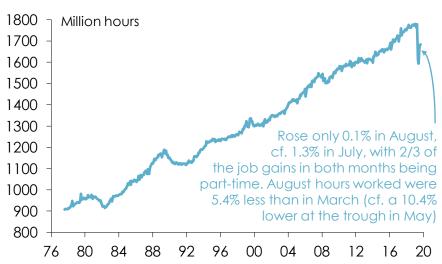
## Labour force participation rate

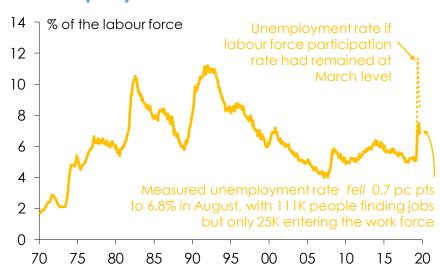


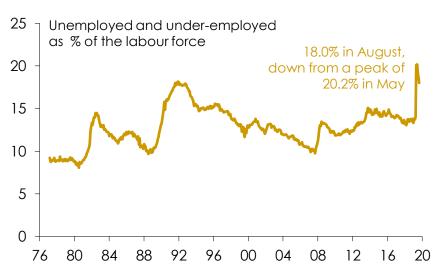
## **Under-employment ratio**



## **Total hours worked**







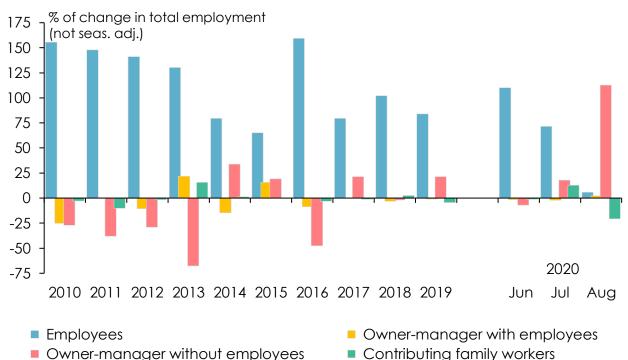
Note: The ABS classifies people on JobKeeper who worked zero hours in the survey week as 'employed'. Had it not done so, the unemployment rate in August would have been 7.9% (down from 11.8% in April) – see also next slide. The 'under-employment ratio' is the percentage of employed persons who are working fewer hours than they are willing and able to work. The 'under-utilization rate' is the proportion of the labour force who are unemployed or underemployed.

Source: ABS, Labour Force, Australia. September data will be released on 15<sup>th</sup> October.



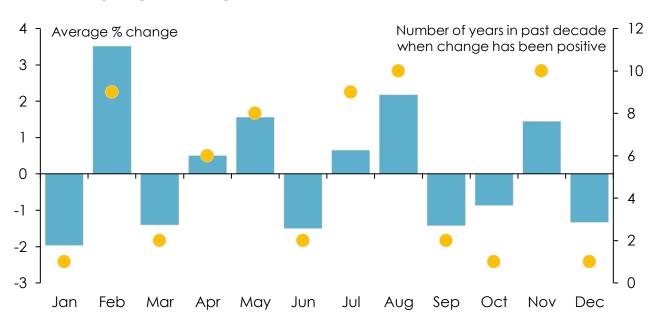
## An unusually large 4% increase in self-employment apparently more than accounted for all of the increase in employment in August

## Proportion of change in employment by employment status, 2010 to August 2020



In March 2020 (just before the onset of the pandemic) there were just over 1.3 mn owner-managers of businesses with no employees (including me!), equivalent to 10½% of total employment: they had accounted for 61/2% of the increase in total employment over the ten years to December 2019 (and had fallen in five of those ten years)

## Average change in number of owner-managers with no employees, by month, 2010-2019



- Average monthly % change (left scale)
- Years where change in month is positive (right scale)

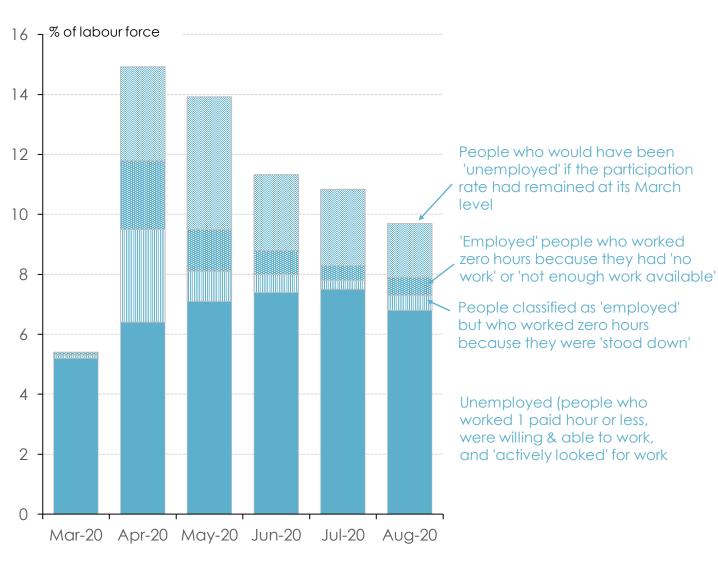
The middle months of quarters seem to be the most auspicious months for starting one-person businesses – August is one of only two months (November is the other) in the past 10 years in which the number of owner-managers with no employees has never fallen. August 2020's 3.9% increase was unusually large – but it is too soon to conclude it means that the 'gig' economy is the only game in town

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Note: data on employment by employment status used in these charts are not seasonally adjusted. Source: ABS, Labour Force, Australia, Detailed, August 2020. September data will be released on 22<sup>nd</sup> October.

# The unemployment rate would have been 9.7% in August if people working zero hours and those who dropped out of the labour force were counted

## Alternative measures of unemployment

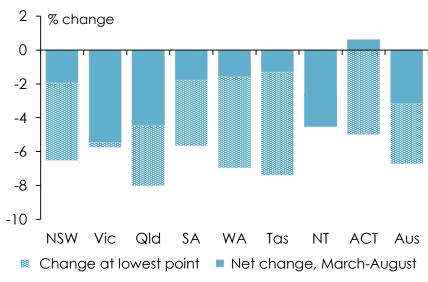


- □ The Government's JobKeeper program has paid eligible employers a subsidy of \$1500 per fortnight for each eligible employee kept on the payroll since 30<sup>th</sup> March
- □ From 28<sup>th</sup> September the JobKeeper payment will reduce to \$1200 per fortnight, with a lower rate of \$750 per fortnight for employees who were working fewer than 20 hours per week in the four weeks prior to 1<sup>st</sup> March ...
- ... and will reduce further to \$1000 per fortnight (and \$650 per fortnight for those who had been working fewer than 20 hours per week) from 4<sup>th</sup> January until 28<sup>th</sup> March, when JobKeeper is currently scheduled to end
- □ Employers will also need to demonstrate that they continued to meet the 'drop in turnover' criteria (30% for businesses with turnover of \$1 bn or less, 50% for large employers, 15% for not-for-profits) in both Q3 and Q4 to remain eligible for JobKeeper payments

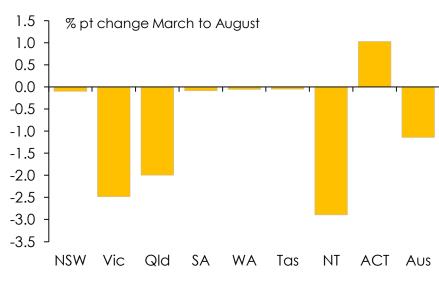


# Tasmania, WA, the ACT and NSW have seen the strongest jobs recoveries since June, while Victoria has (for obvious reasons) had the weakest

## **Employment**



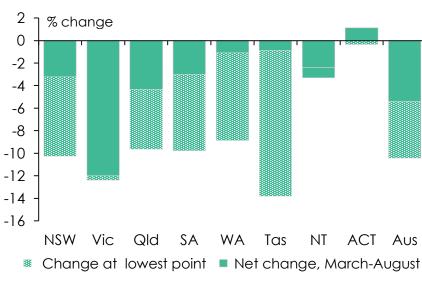
## Labour force participation rate



## **Under-employment ratio**



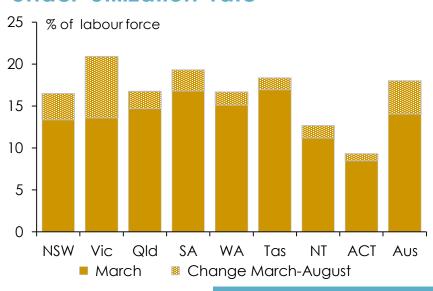
#### **Total hours worked**

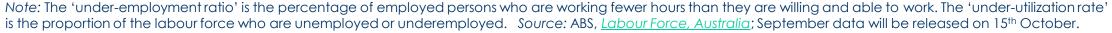


## **Unemployment rate**



#### 'Under-utilization' rate

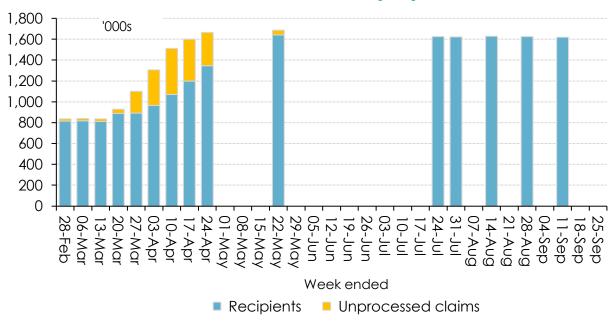




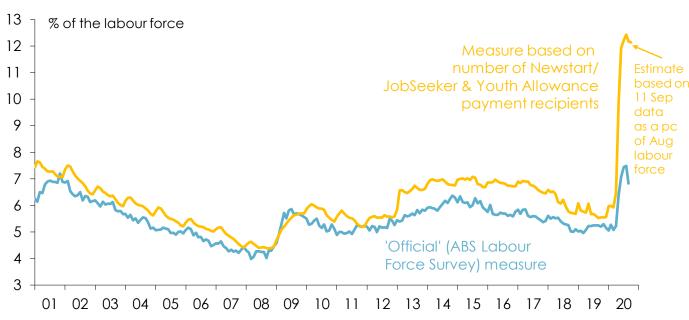


# The Australian Government (unlike the US Government) seems to regard weekly data on the number of joblessness beneficiaries as a 'state secret'

## 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

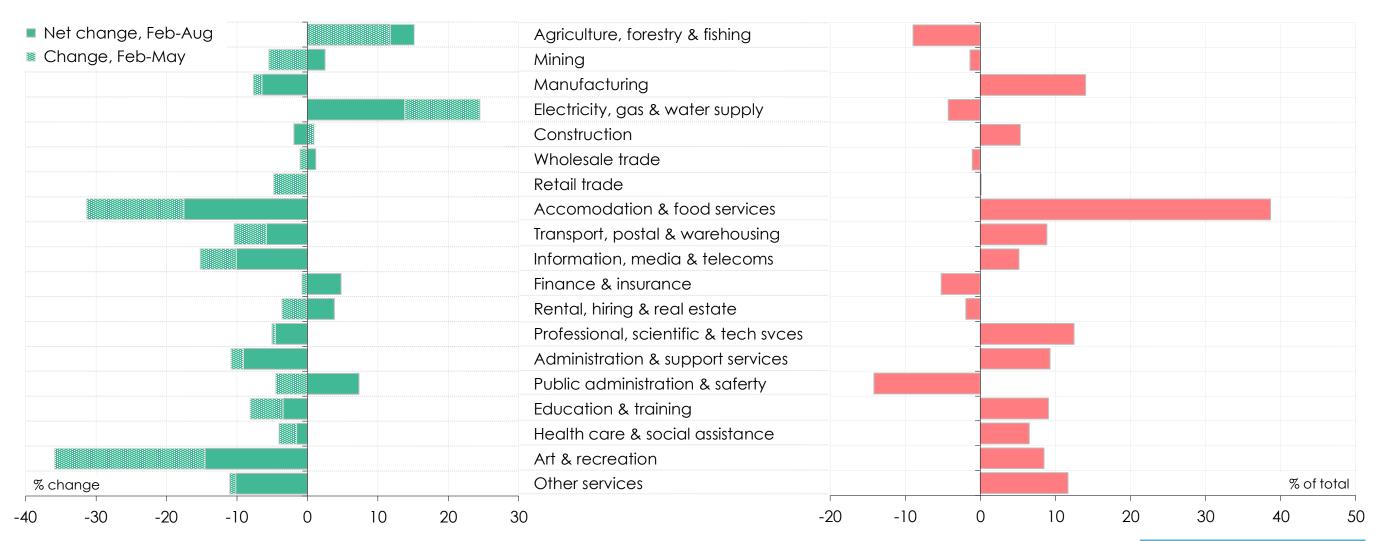


- ☐ The Department of Social Services (DSS) compiles weekly data on the number of people receiving JobSeeker and Youth Allowance (Other) payments, which are supplied to Ministers; historically, only monthly data has been made publicly available
- On two occasions earlier this year the Secretary of DSS provided weekly data to the Senate Select Committee on Covid-19, and on 29<sup>th</sup> July promised to provide fortnightly and monthly data to this Committee; however so far only three sets of data have been provided, the latest being for 11<sup>th</sup> September, and the Government is keeping the weekly data secret
- □ By contrast, the US Labor Department has been making the equivalent data (the 'initial claims' series) available every Thursday morning since 1968: there is no valid reason why Australia shouldn't do the same

# Accommod<sup>n</sup> & food services, arts & recrea<sup>n</sup>, and educ<sup>n</sup> & training accounted for 56% of job losses from Feb to May, and 56% of job gains Feb-August

## Change in employment between February and August 2020, by industry

Proportion of change in total employment between February and August 2020, by industry

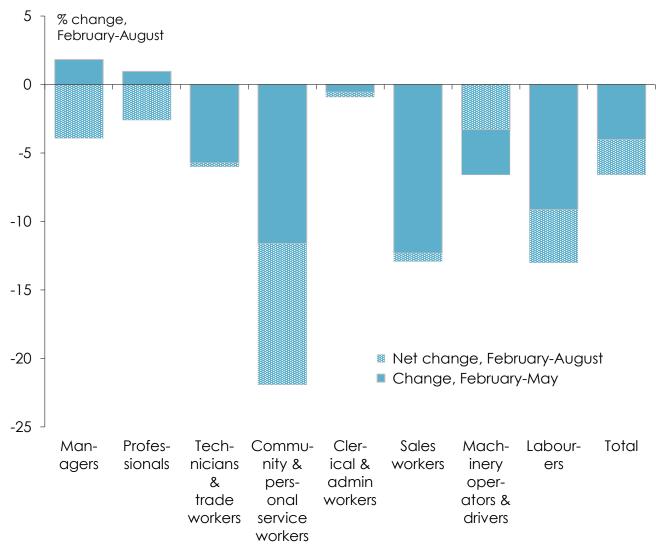


Note: The accommodation & food services, education & training, and arts & recreation services sectors accounted for 15% of total employment in February. Source: ABS, <u>Labour Force</u>, <u>Australia</u>, <u>Detailed</u>, August 2020. November data will be released on 23rd December

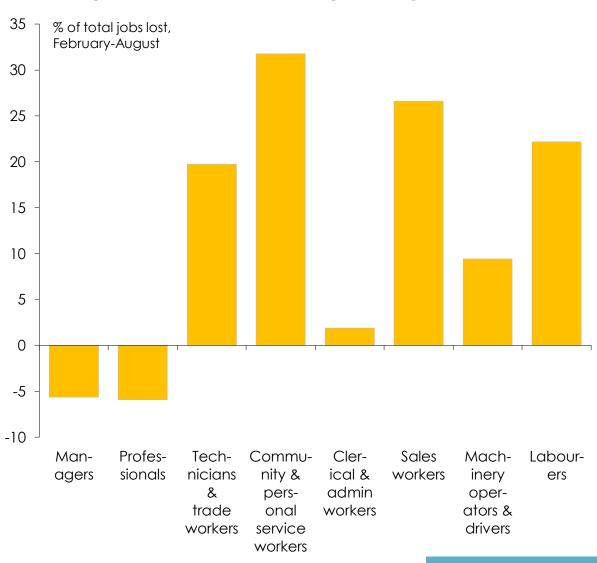


# Community & personal service workers, sales workers and labourers have accounted for 81% of all net job losses since February

## Change in employment between February and March 2020, by occupation



## Proportion of change in total employment between February and March 2020, by occupation

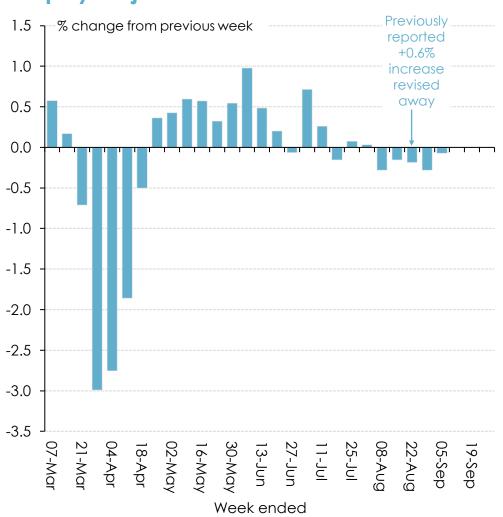


Source: ABS, Labour Force, Australia, Detailed, August 2020. November data will be released on 23rd December

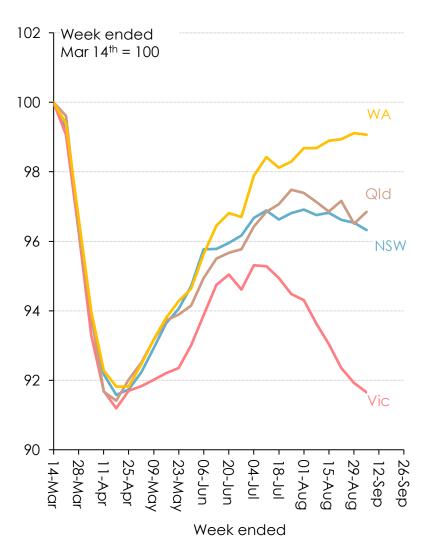


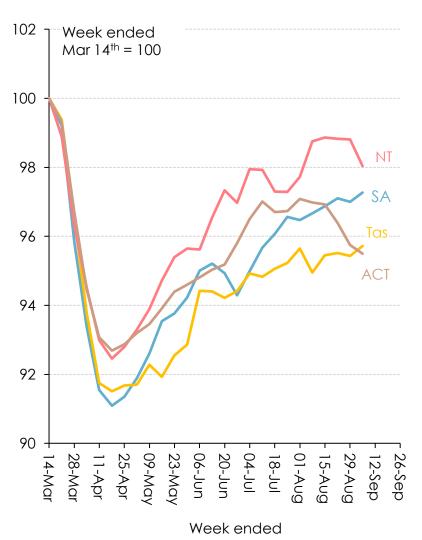
### Victoria continued to be a substantial drag on employment growth through mid-August, but in other states job number picked up in late August

### Weekly change in number of payroll jobs



#### Payroll jobs by State & Territory



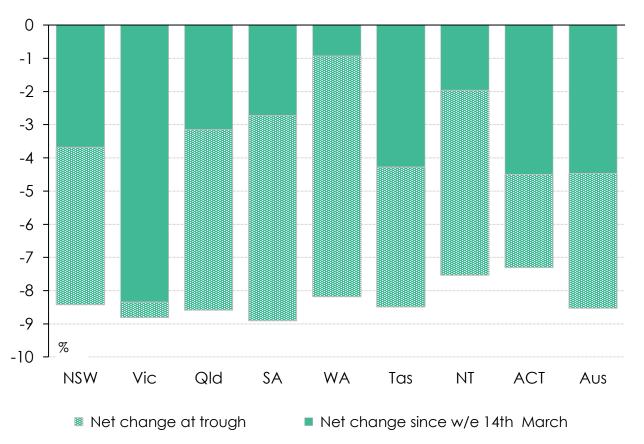


Source: ABS, <u>Weekly Payroll Jobs and Wages in Australia</u>. Data refers to the number of payroll jobs at businesses participating in the Australian Taxation Office's Singe Touch Payroll system, which covers 99% of employers with 20 or more employees and about 71% of smaller employees. People with 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). Data for weeks up to week ended 19<sup>th</sup> September will be released on 7<sup>th</sup> October.

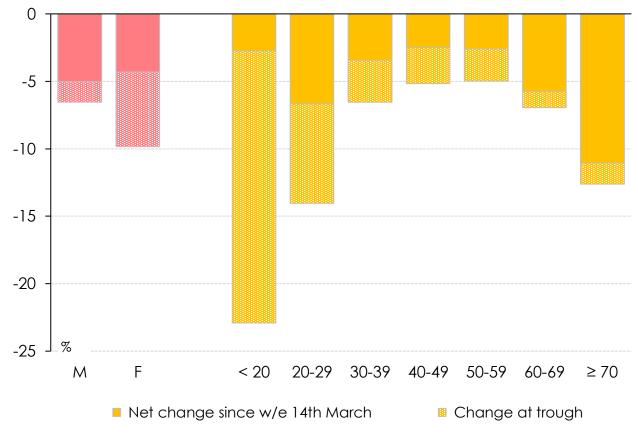


### Victoria has experienced the largest net job losses, by a wide margin: but it's no longer true that women and young people have

Net change in the number of payroll jobs since the week ended 14<sup>th</sup> March, by state and territory



Net change in the number of payroll jobs since the week ended 14<sup>th</sup> March, by gender and age group



- □ Vic payroll jobs are still down 81/4% on net from prepandemic: other states between 1% and 41/2%
- ☐ It's no longer the case that women and young people have borne the brunt of job losses

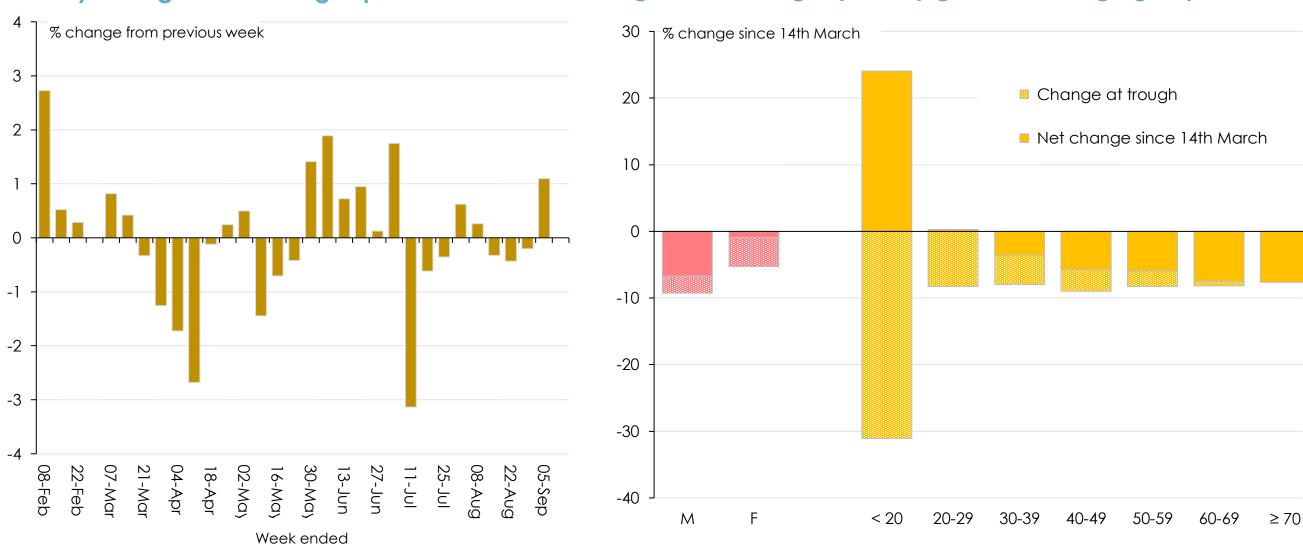
Source: ABS, <u>Weekly Payroll Jobs and Wages in Australia</u>. Data refers to the number of payroll jobs at businesses participating in the Australian Taxation Office's Singe Touch Payroll system, which covers 99% of employers with 20 or more employees and about 71% of smaller employees. People with 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). Data for weeks up to week ended 19<sup>th</sup> September will be released on 7<sup>th</sup> October



### Wage payments rose 1.1% in the first week of September, the largest since the first week of July, reversing the declines over the previous three weeks

#### Weekly change in total wages paid



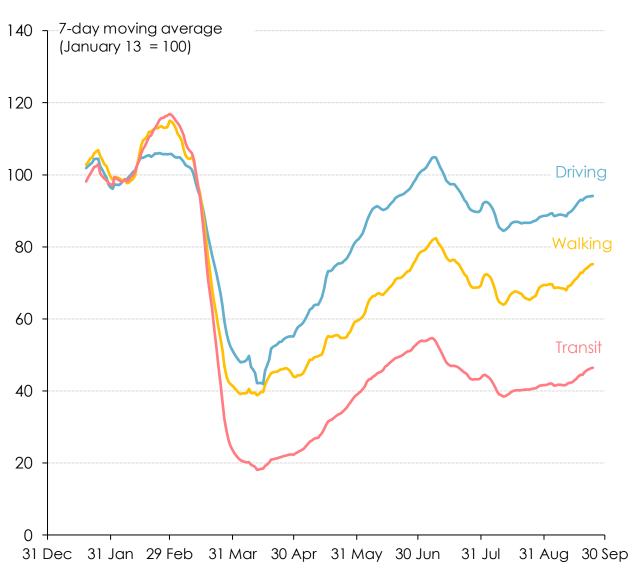


Note: The smaller fall in women's wages than men's likely reflects the fact that JobKeeper payments (at a flat rate of \$1500 per employee per fortnight) represent a higher proportion of women's (lower) average earnings than men's. Ditto for teenagers (most of whom work part-time). Source: ABS, Weekly Payroll Jobs and Wages in Australia. 'Trough' refers to the week in which payroll employment for the state/territory, gender or age group was at its lowest level since mid-March. Data are not seasonally adjusted, so some of the week-to-week movements in wages could be due to 'normal' seasonal factors (for example end-of-financial year bonuses).

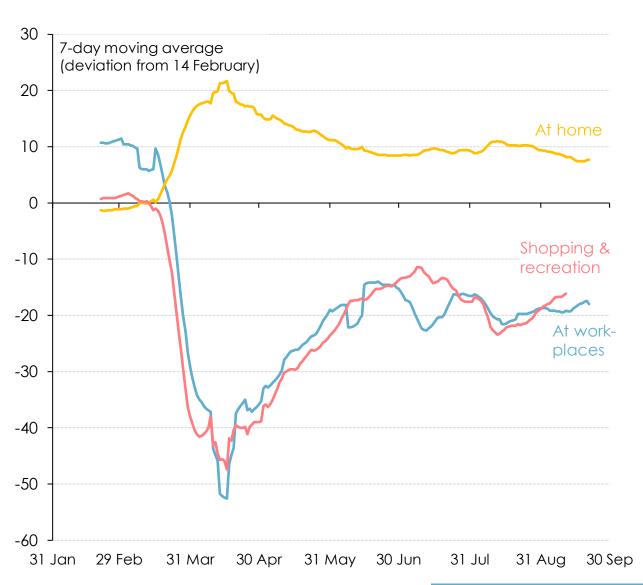


### Mobility indicators have picked up with the easing of lockdown restrictions in regional Victoria

#### Time spent driving, walking and in transit



#### Time spent working, at home, shopping & playing

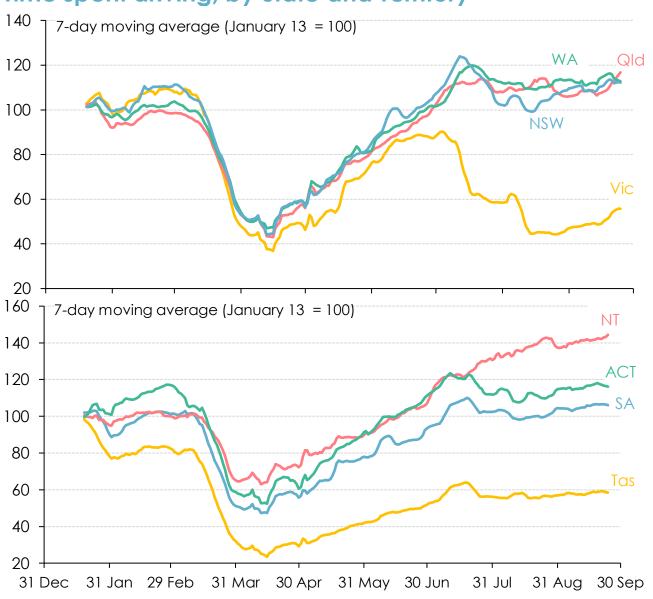


Note: 'transit' means using public transport. Note also that these data will reflect normal seasonal variations in activities as well as the effects of government restrictions and individual responses to the risks posed by the virus. Sources: Apple Mobility Trends Reports (data up to 24<sup>th</sup> September); Google Community Mobility Reports (data up to 21st September for 'at work' and 'at home', 11<sup>th</sup> September for retail & recreation). For state-level data see next slide.

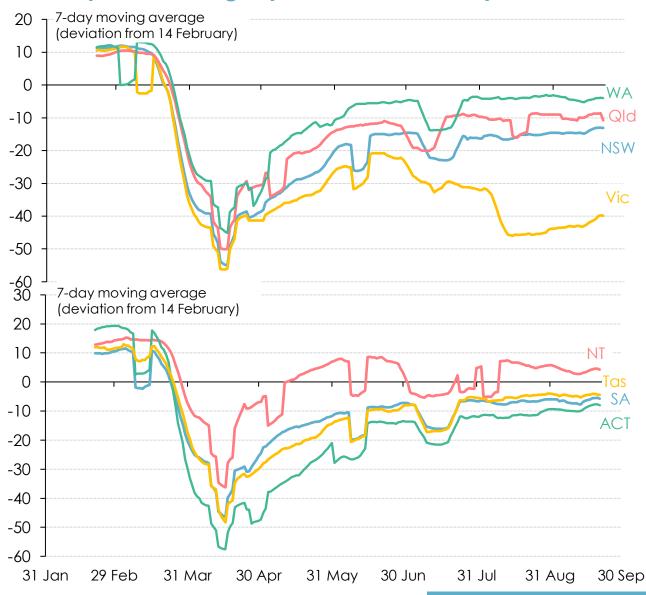


## Victoria remains well below other states and territories on mobility indicators despite the easing of restrictions in regional areas last week

#### Time spent driving, by State and Territory



#### Time spent working, by State and Territory

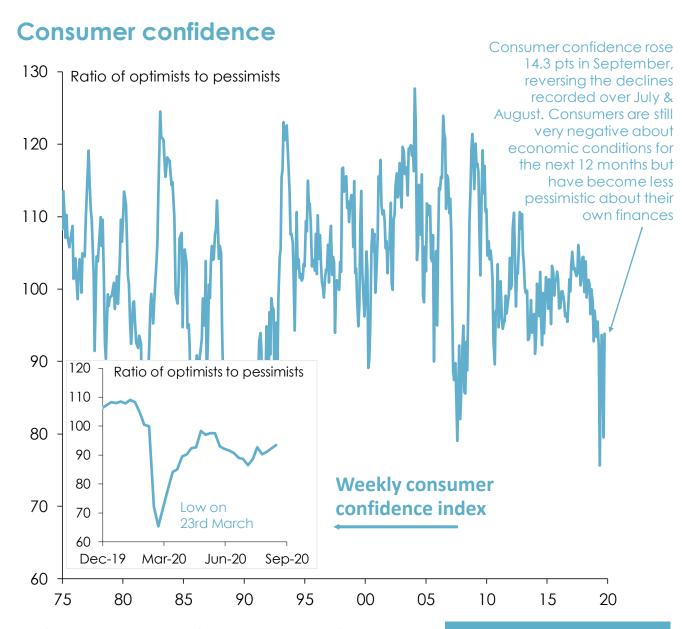


Note: these data will reflect normal seasonal variations in activities as well as the effects of government restrictions and individual responses to the risks posed by the virus. Sources: Apple Mobility Trends Reports (data up to 24th September); Google Community Mobility Reports (data up to 21st September).



### Business confidence improved a bit in August but remains weak by historical standards, consumer confidence improved in September

#### **Business** confidence Business confidence improved (or at least, Net balance (%) became less negative) in August despite the deterioration in all of the components of 'business conditions', largely reflecting hopes of an end to the shutdown in Victoria 20 0 -20 -40 March -60 lowest on record





16

20

12

08



-80

92

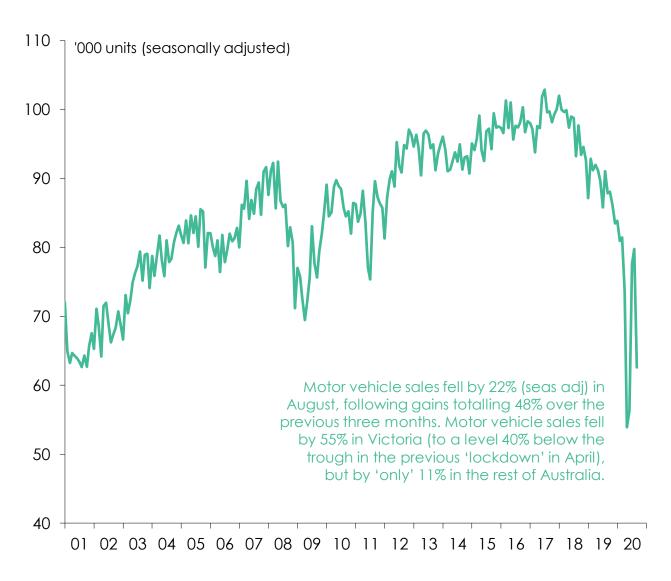
96

## Retail sales fell 4.2% in August (Victoria down 12.6%), while motor vehicle sales fell 22% in August (dragged down by a 55% slump in Victoria)

#### Retail sales 10 +16.9% in May (largest monthly increase % change from on record back to 1962) boosted by previous month surges in spending on clothing, +2.7% in June footwear & household goods 5 +8.5% in March. driven by 'panic buying' ahead of the shutdown +3.2% in July Dec 2019 = 100 Rest of Australia -4.2% (p) in August 115 110 105 100 -10 95 90 Victoria 85 -15 -17.7% in April, Dec Jan Feb Mar Apr May Jun Jul Aug largest monthly Retail sales fell by 12.6% (p) in Victoria in August, decline as against a 1.5% decline in the rest of Australia on record -20

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20

#### Motor vehicle sales



Sources: ABS, <u>Retail Trade</u>, <u>Australia</u>; Federal Chamber of Automotive Industries <u>VFACTS</u> (seasonal adjustment of FCAI data by Corinna). Retail sales data are up to July and motor vehicle sales to August. Final retail sales data for August will be released on 2<sup>nd</sup> October; September motor vehicle sales data will be released on or around 5<sup>th</sup> October.



## The pandemic and lockdown prompted some dramatic changes in how Australians made payments, accelerating trends already under way

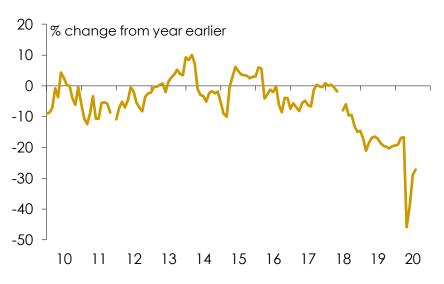
#### Growth in online retail sales



#### ATM cash withdrawals



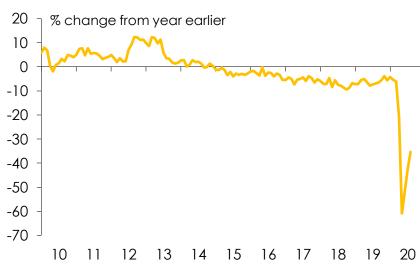
Credit card cash advances



#### Online retail 'market share'



#### **Debit card cash-outs**

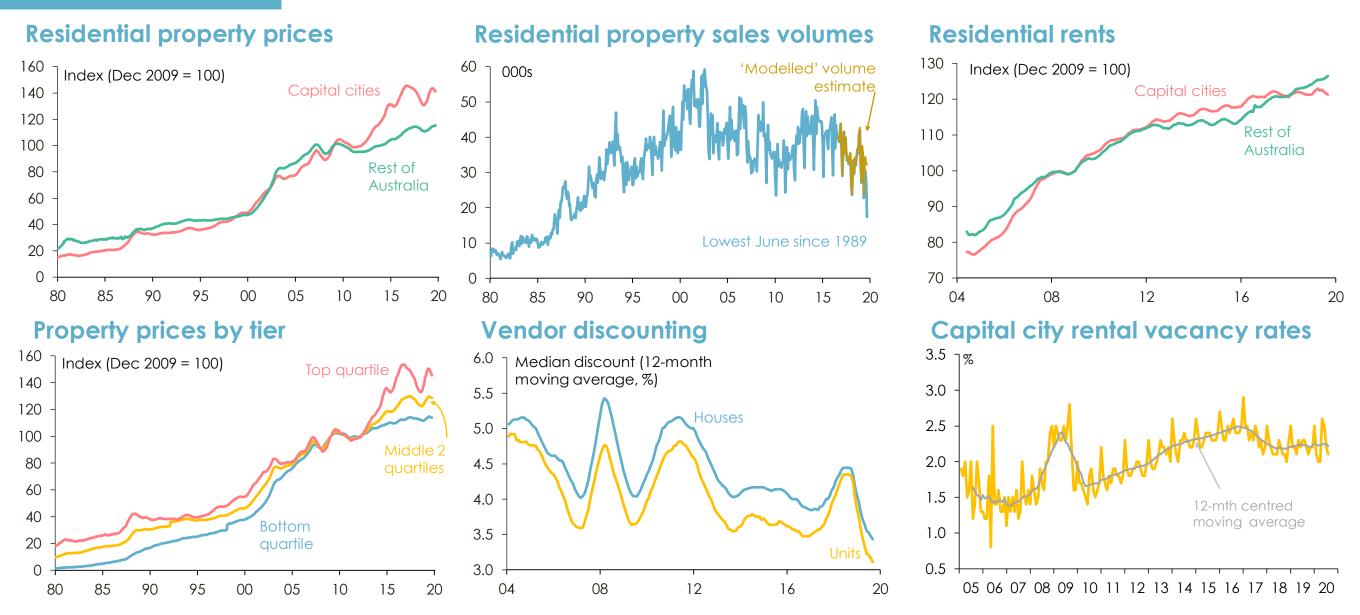


#### Direct entry payments





### Property prices fell by an average of 1.3% from April to August, on thin volumes, with bigger falls in cities than regions, and in 'top tier' properties

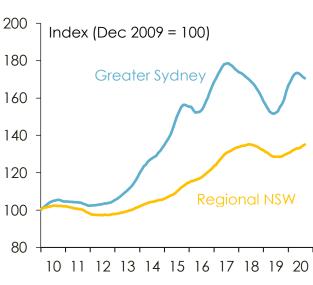


Note: The index of property prices measures the 'organic' change in underlying sales values by using a hedonic regression methodology that takes account of changes in the characteristics of properties being sold from month to month. Property price data are now seasonally adjusted. The index of residential 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 August 2020; September data will be released on 1st October Sources: CoreLogic; SQM Research.

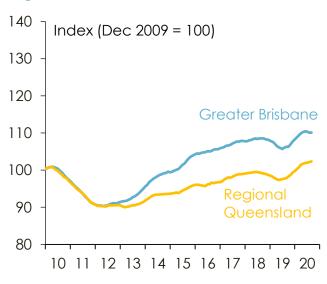


### Property prices have fallen more in regional WA, Melbourne, Sydney and Perth since March than elsewhere, and have risen in Adelaide and Hobart

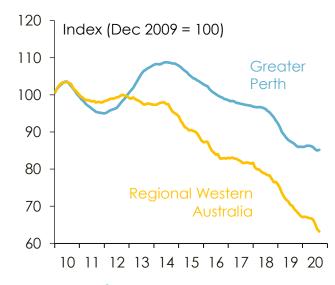
#### **New South Wales**



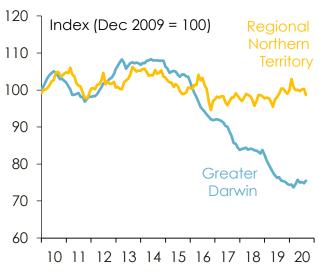
#### Queensland



**Western Australia** 



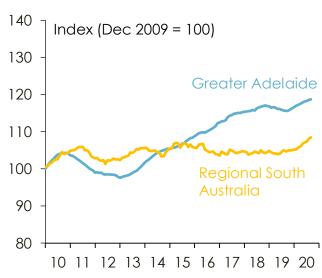
**Northern Territory** 



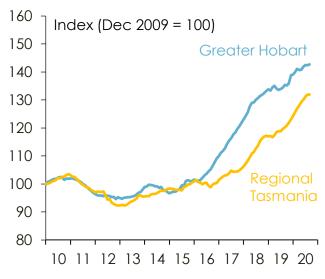
#### Victoria



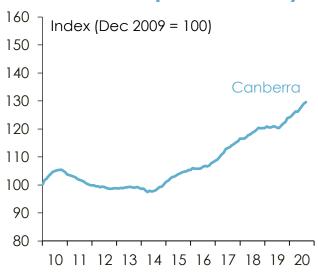
**South Australia** 



Tasmania



**Australian Capital Territory** 

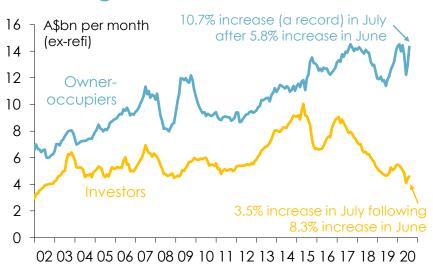


Note: The index of property prices measures the 'organic' change in underlying sales values by using a hedonic regression methodology that takes account of changes in the characteristics of properties being sold from month to month. Property price data are now seasonally adjusted. Latest data are for August 2020; September data will be released on 1st October. Source: CoreLogic.

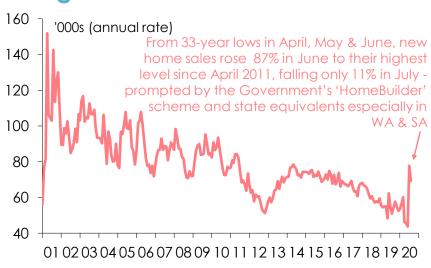


## Residential building activity will likely turn down over the next few months and longer-term will be adversely affected by sharply lower immigration

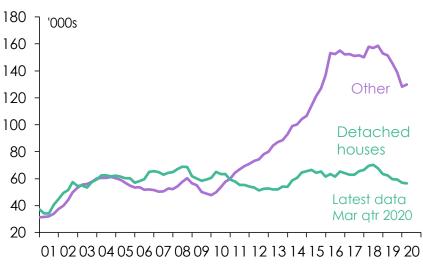
#### Housing finance commitments



#### Large builders' new home sales



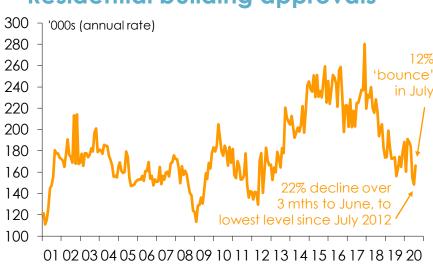
#### **Dwellings under construction**



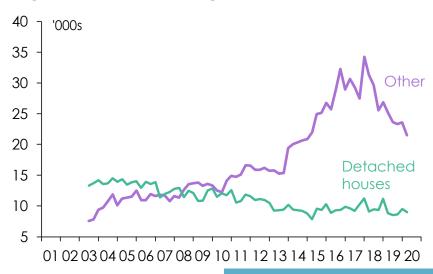
#### Refinancings as pc of total



#### Residential building approvals



#### 'Pipeline' of work yet to be done

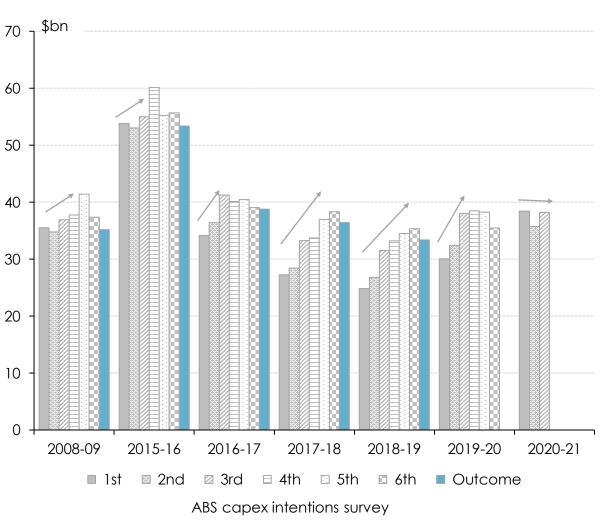


Note: 'New home sales' are of detached dwellings only and exclude small-scale builders. Sources: ABS; Housing Industry Association. August residential building approvals will be released on 30<sup>th</sup> September; August housing finance commitments on 9<sup>th</sup> October; and June quarter dwellings under construction and 'pipeline' data on 14<sup>th</sup> October.

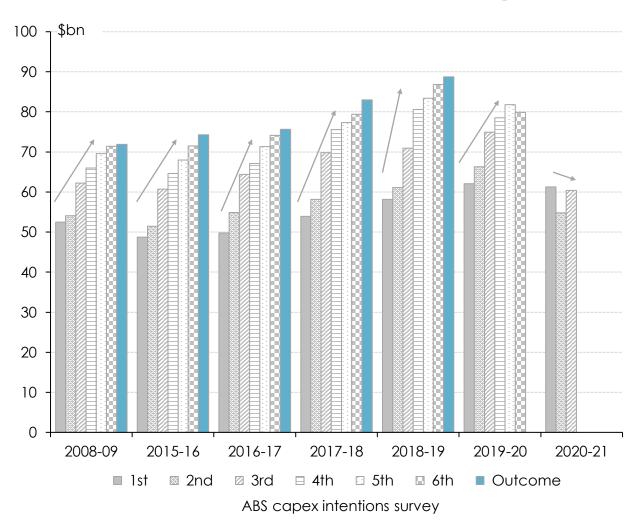


## Business capex intentions for the current financial year are lower than they were six months ago – for the first time in at least 33 years

#### Capital expenditure intentions - mining



#### Capital expenditure intentions – non-mining

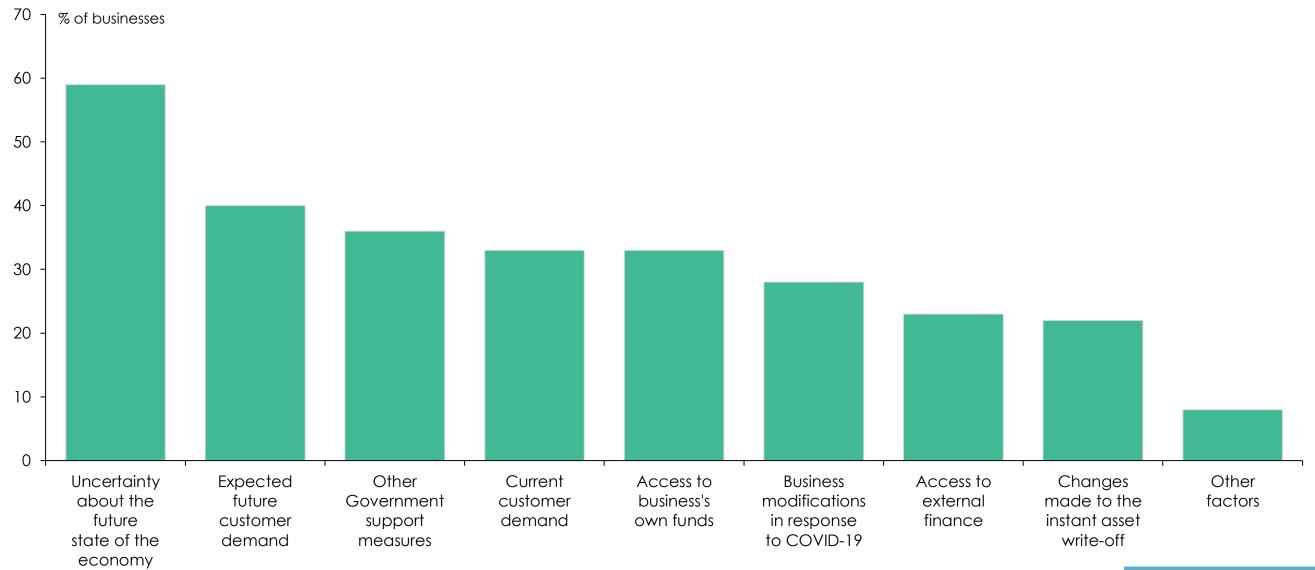


Note: The ABS conducts six surveys of business' capital expenditure intentions in respect of each financial year. The first is conducted in January & February prior to the commencement of the financial year, the second in May & June, the third in July & August of the financial year, the fourth in October & 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. The survey excludes businesses in the agriculture, forestry & fishing; and public administration and safety sectors, and also superannuation funds. The education & training, and health care & social assistance sectors have been included in the surveys since December 2019 but are not included in the above charts (to assist in comparisons). Source: ABS, Private New Capital Expenditure and Expected Expenditure, Australia (next update 26<sup>th</sup> November).



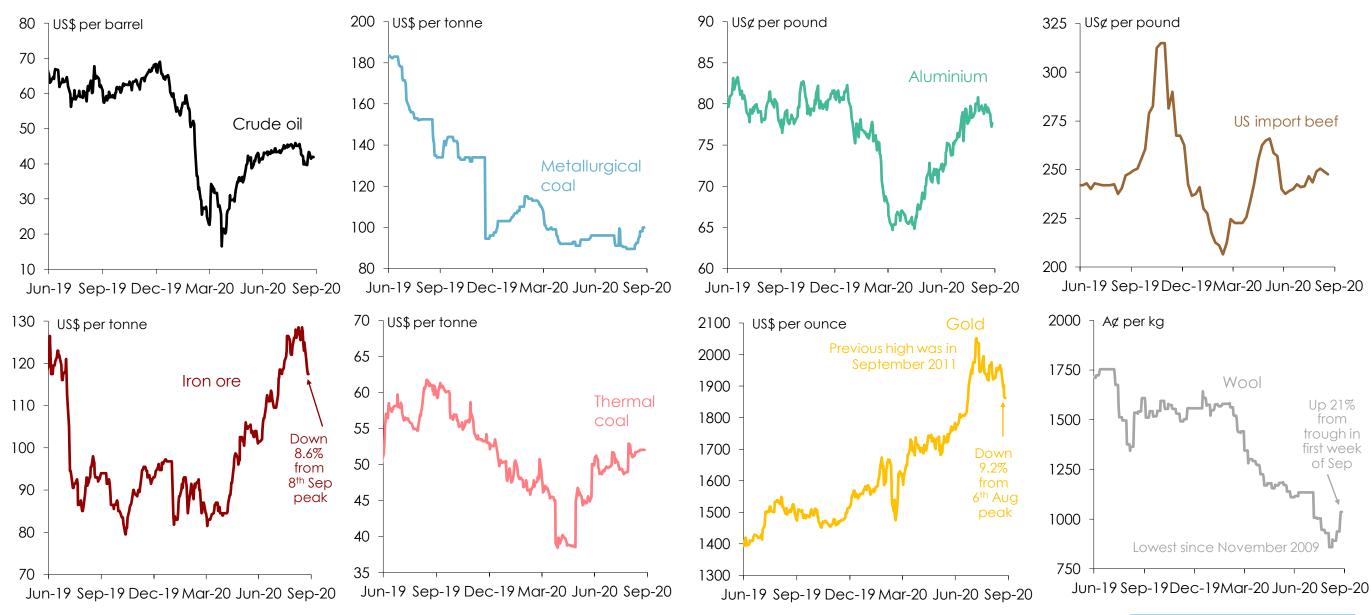
### Uncertainty about the economic outlook is the most important factor weighing on business capex decisions

Significant factors affecting business capital expenditure decisions, by industry, August 2020





## Most commodity prices were down this week, largely reflecting a stronger US dollar, although wool prices continued their recovery





### The resilience of iron ore prices stems from strong Chinese demand, declining Chinese production and constraints on Brazilian exports

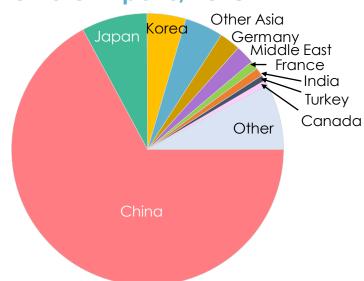
# Sweden India Chile Netherlands Middle East Canada Other

Brazil

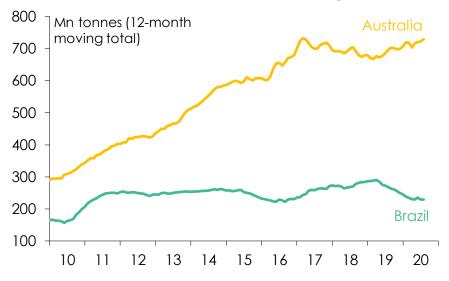


Iron ore imports, 2018

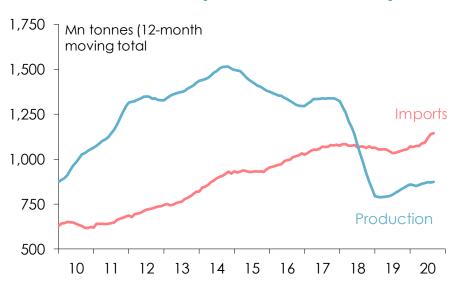
South Africa



#### Australia & Brazil iron ore exports



China iron ore production & imports

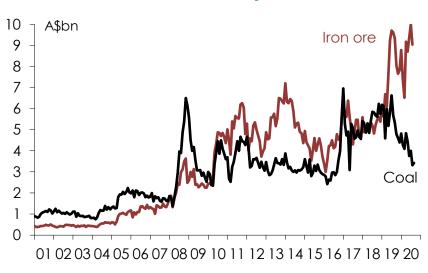


- The global seaborne iron ore trade is dominated by shipments from Australia & Brazil to China (which accounts for 53% of global steel production and 51% of steel use)
- Chinese iron ore production has fallen by more than 34% since 2017, largely because of rapidly declining quality forcing Chinese steel mills to become more dependent on imports
- Brazilian production and exports have been curtailed by a series of tailing dam collapses over the past five years, and more recently by Covid-19 outbreaks at four large mine sites
- ☐ China is seeking to develop other sources in West Africa although there are big logistical hurdles to be overcome there
- BHP said this week that iron ore prices "can be expected to ease as Brazilian supply recovers" and that "in the second half of the 2020s, China's demand for iron ore is expected to be lower than today as crude steel production plateaus and the scrap-to-steel ratio rises"



### Australia's merchandise trade surplus rose 20% to \$3.8bn in August, with a 5% fall in imports more than offsetting a 2% fall in exports

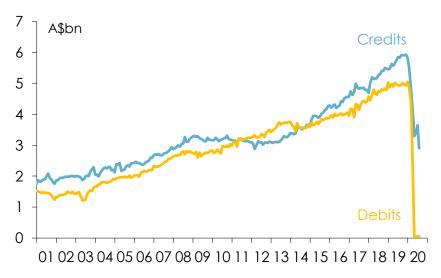
#### Iron ore and coal exports



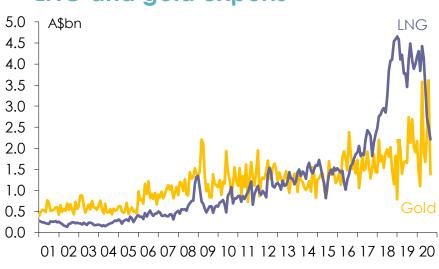
#### Merchandise exports and imports



#### Tourism-related services trade



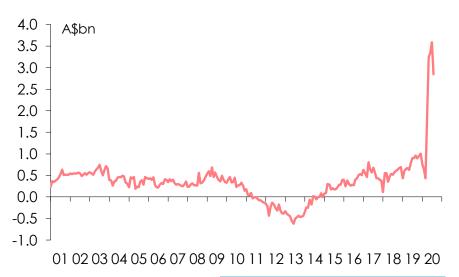
#### LNG and gold exports



#### Merchandise trade balance



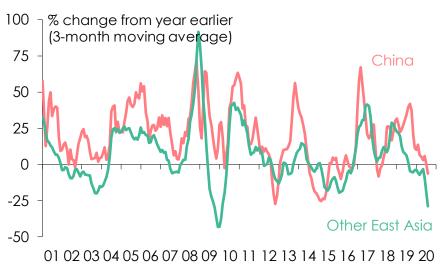
Tourism services trade balance



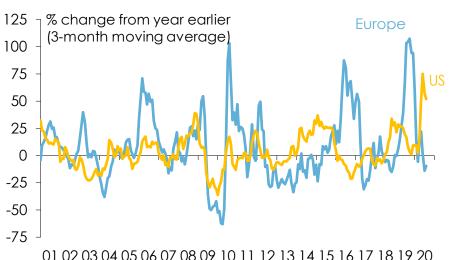


### Despite strong iron ore exports, Australia's exports to China are now below year-earlier levels, as are exports to other markets (apart from the US)

#### Merchandise exports – East Asia

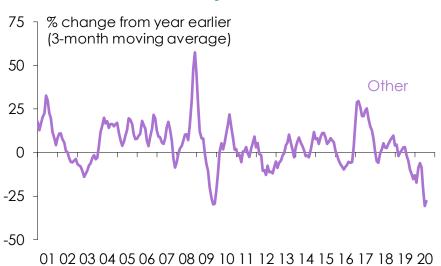


#### Merchandise exports – US & Europe

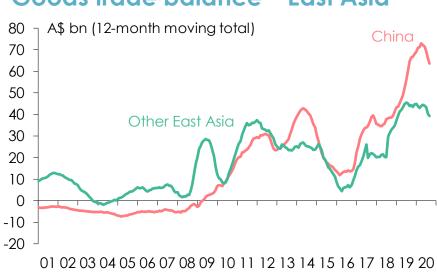


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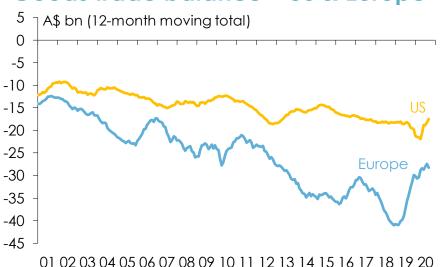
#### Merchandise exports – other



#### Goods trade balance – East Asia



#### Goods trade balance – US & Europe



#### Goods trade balance – other



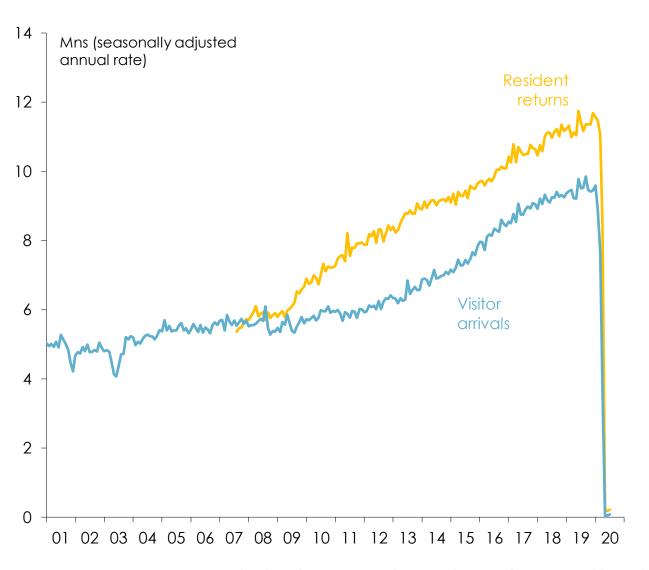
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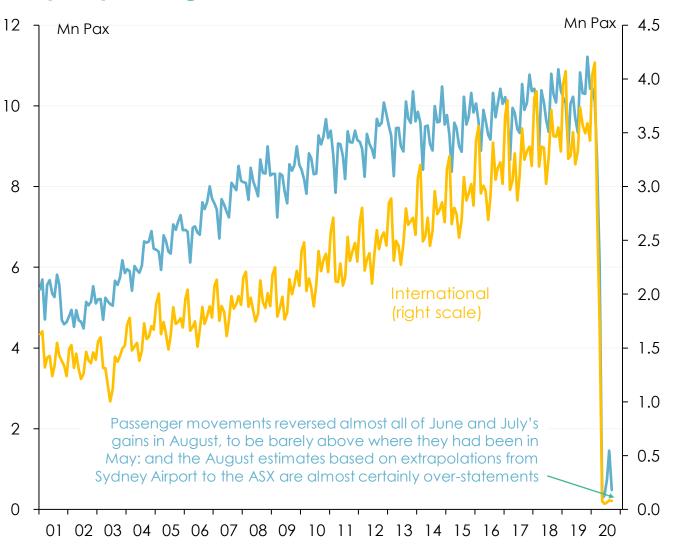


### Tourism and aviation have been severely impacted by the closure of international and most state borders

#### 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 BITRE data on airport passenger movements are for June; July and August data have been extrapolated from data for Sydney Airport published by Sydney Airport Ltd.

Sources: ABS; Bureau of Industry, Transport and Resources Economics (BITRE); Sydney Airport Ltd; Corinna.



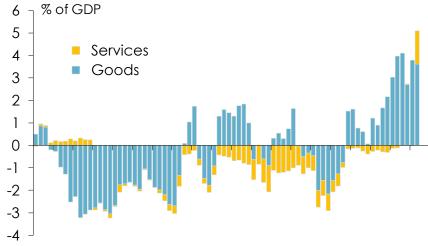
### Australia recorded its largest-ever current account surplus in Q2, and is now a capital exporter, paying down debt and building up equity assets

#### **Export and import volumes**



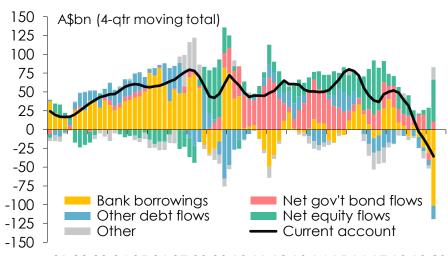
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#### Goods & services trade balances



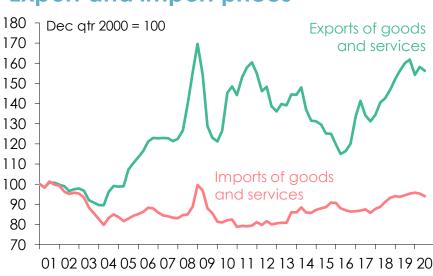
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#### Capital flows

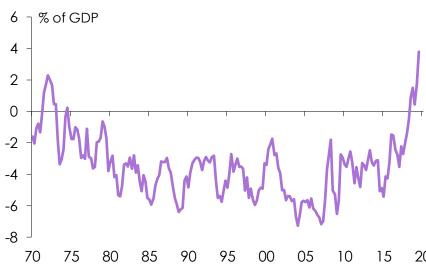


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#### **Export and import prices**



#### **Current account balance**



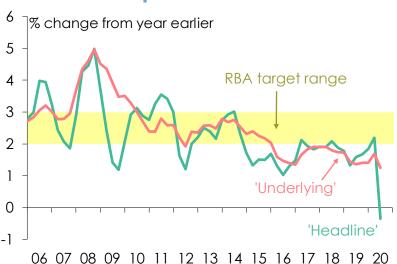
#### Net international investment position



SAUL ESLAKE
CORINNA ECONOMIC ADVISORY

### Inflation turned negative, temporarily, in Q2 and will remain below the RBA's target until at least the second half of 2021

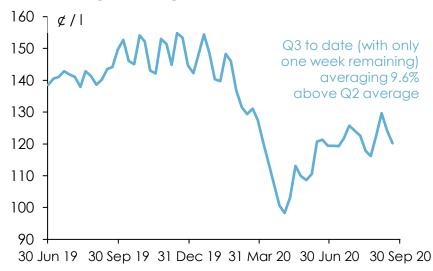
#### Consumer prices



#### Housing costs in the CPI



#### Retail petrol prices



#### Retail sales implicit price deflator

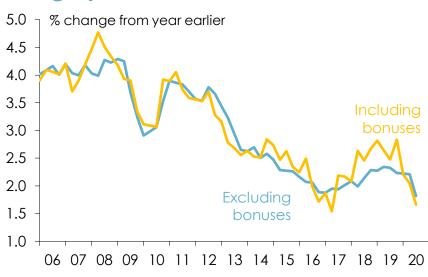


- The CPI fell (by 1.9%) in the June quarter, the largest quarterly decline since 1931 and only the 11<sup>th</sup> decline in 60 years
- The annual 'headline' inflation rate fell to 0.3%, the lowest since Q3 1997 (which was artificially induced by falling mortgage rates, which are no longer included in the CPI), or otherwise since Q3 1944
- The fall in the CPI in Q2 was largely due to the provision of free child care between 6<sup>th</sup> April and 28<sup>th</sup> June, which subtracted 1.1pc pts from the CPI; and a 19% fall in petrol prices, which subtracted 0.7 pc pts
  - both of these items will reverse in Q3
- 'Underlying' inflation was flat in Q2 and 1.3% from Q2 last year it's now been below the RBA's target for more than four years
- In contrast to the CPI, the retail sales price deflator rose 1.2% in Q2 to be 4.2% higher than in Q2 2019 the biggest annual increase since Q2 2001 largely driven by a 6.7% increase in food prices



### Wages growth over the year to the June quarter was the lowest for at least 23 years

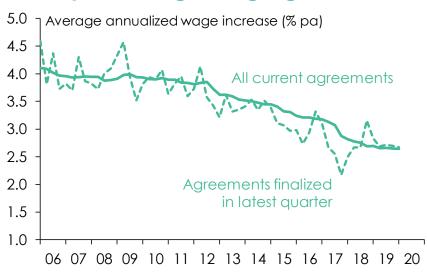
#### Wage price index – all sectors



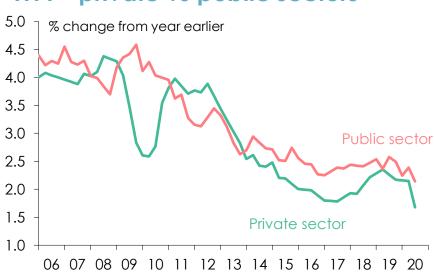
#### WPI by industry



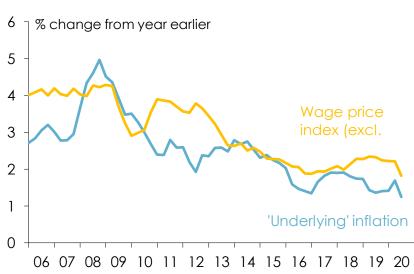
#### **Enterprise bargaining agreements**



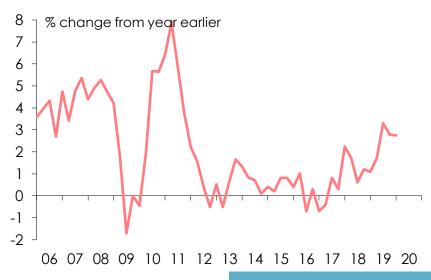
#### WPI – private vs public sectors



#### WPI and 'underlying' CPI inflation



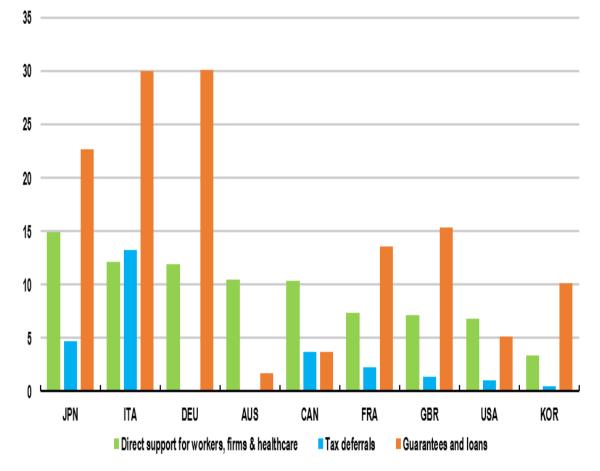
#### Unit labour costs





### The Australian Government's policy measures have been large by historical and international standards

### Fiscal policy responses to Covid-19 – selected OECD economies, % of 2019 GDP



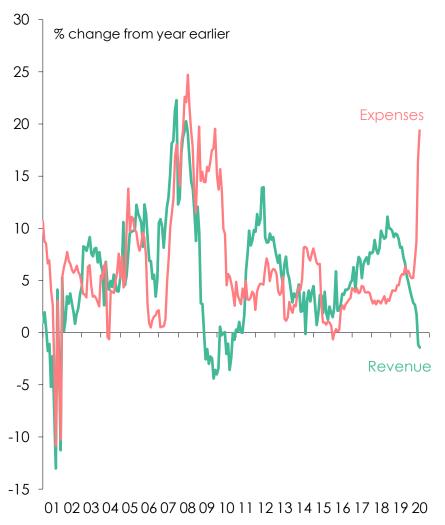
Note: Countries are ranked (form left to right) by the scale of support with a direct budget impact (ie the sum of the green and blue bars). Estimates include measures announced up to 14<sup>th</sup> September. Source: OECD, Economic Outlook, Interim Report September 2020, 16<sup>th</sup> September 2020.

- □ Policy measures announced thus far by the Australian Government total \$192bn over FYs 2019-20 and 2020-21 or about 9% of one year's GDP which is large by international standards (and double what was done during the GFC)
  - including an additional \$15bn for Jobkeeper announced this week in response to the 'lockdown' in Victoria
- □ Principal objectives of policy measures have been to
  - maximize the 'survival prospects' of businesses affected by shutdowns or ongoing restrictions
  - minimize the impact of the shutdown on employment
  - provide additional income support to those who lose their jobs
  - strengthen the capacity of the health care system to cope with increased demand
- ☐ Policy measures have been designed to be 'simple' to administer, and to make greatest use of existing systems rather than having to create new mechanisms
  - which resulted in some anomalies initially (eg with the level of Jobkeeper payments to part-time workers) though most of these have now been corrected
- Policy measures also designed to be readily 'switched off' once the need for them has passed

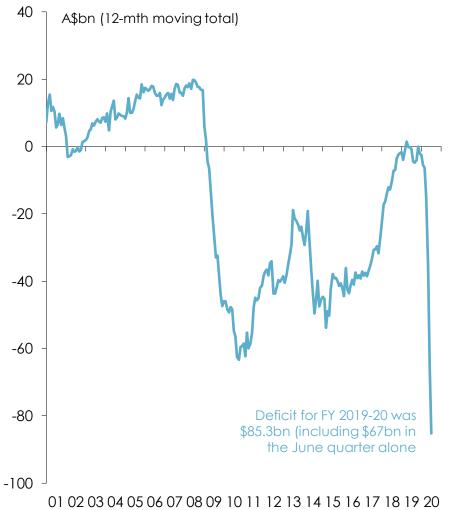


### The Australian Government's 'bottom line' has begun to deteriorate sharply, and ...

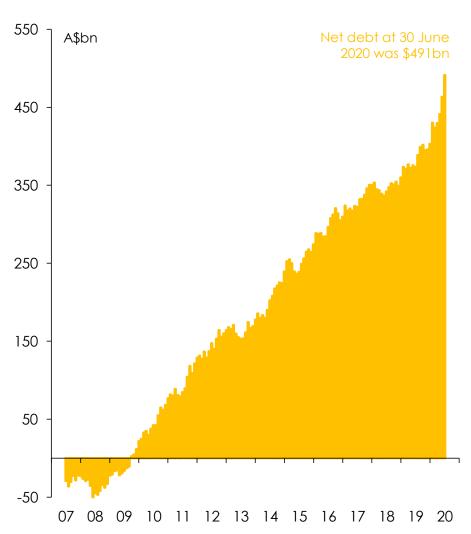
### Australian Government revenue and expenses



#### Australian Government 'underlying' cash balance



#### **Australian Government net debt**

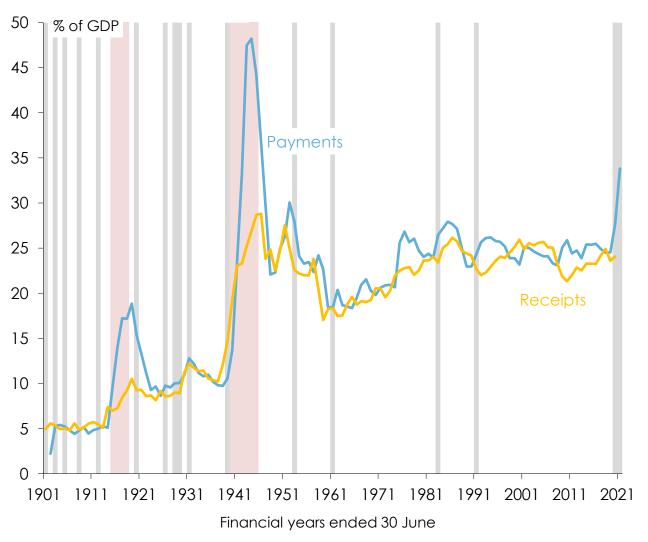


Note: Revenue and expenses are accrual accounting items. The 'underlying' cash balance is (cash) receipts minus payments, excluding transactions in financial assets for policy purposes and net earnings of the Future Fund. Net debt is total interest-bearing liabilities (government securities, deposits, loans and other borrowing) minus cash and deposits, advances paid, and (interest-bearing) loans, placements and investments. Source: <u>Department of Finance</u>.

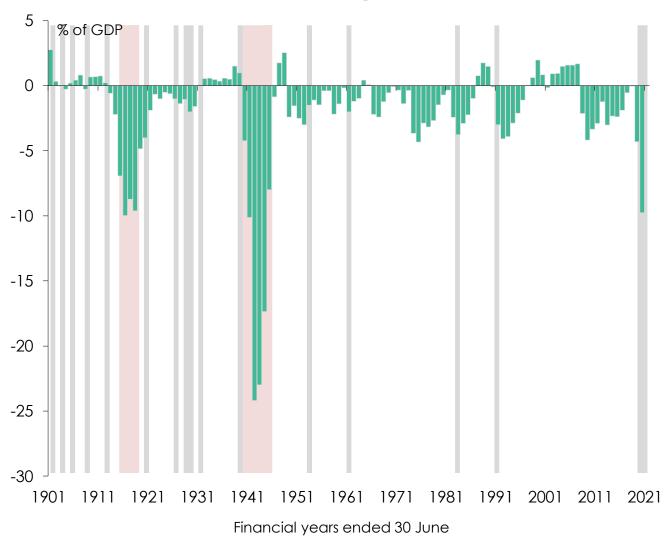


## ... blew out to \$85.3bn in 2019-20, and is forecast to widen to \$185bn (9.7% of GDP) in 2020-21, the largest deficit as a pc of GDP since WW II

#### Australian Government receipts and payments



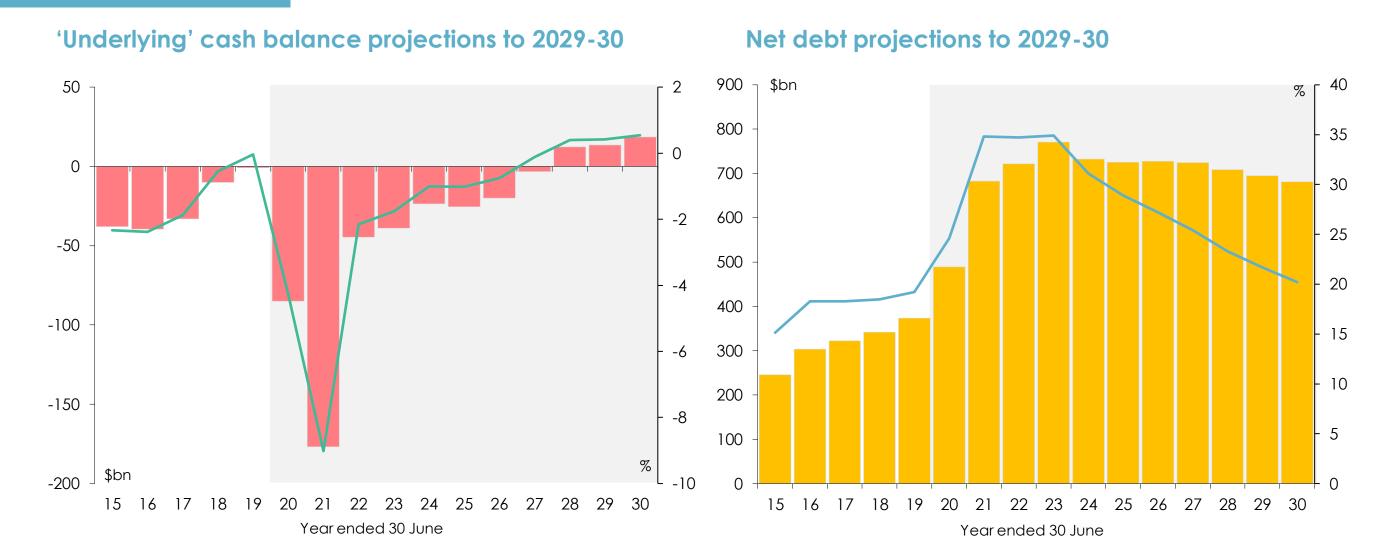
#### Australian Government budget deficit or surplus



Note: Payments and the budget surplus or deficit are 'underlying' (that is, exclude 'net investments in financial assets for policy purposes') after 1989-90, when state governments became responsible for issuing their own debt, and 'headline' before that. Areas shaded in grey are fiscal years in which real GDP contracted; areas shaded in pink are World Wars I and II. Sources: Global Financial Data; Australian Government, 2019-20 Mid-Year Economic and Fiscal Outlook (December 2019) and Economic and Fiscal Update (25<sup>th</sup> July 2020); Final Budget Outcome 2019-20 (25th September 2020). These numbers will be updated in the Budget on 6<sup>th</sup> October.



## Based on PBO projections, the budget looks set to remain in deficit until 2027-28, with net debt peaking at \$771bn (35% of GDP) in 2023



\$ billion (left scale)

Note: Shaded area denote estimates (for 2019-20) or projections. Estimates and projections expressed in dollars have been inferred by Corinna from the PBO's baseline projections expressed as a pc of GDP, PBO projections of real GDP (starting with RBA SoMP forecasts) and Corinna estimates of the GDP deflator. PBO projections only allow for the impact of Covid-19 and measures taken in response to it (including, in particular, the impact of border closures on forecasts for immigration and hence population growth), and not for any other developments which may affect long-term economic or fiscal projections (in either direction).

Sources: Parliamentary Budget Office (PBO), Updated medium-term fiscal scenarios: impact of COVID-19 pandemic and response, Canberra, 21st August: Corinna.

— Pc of GDP (right scale)

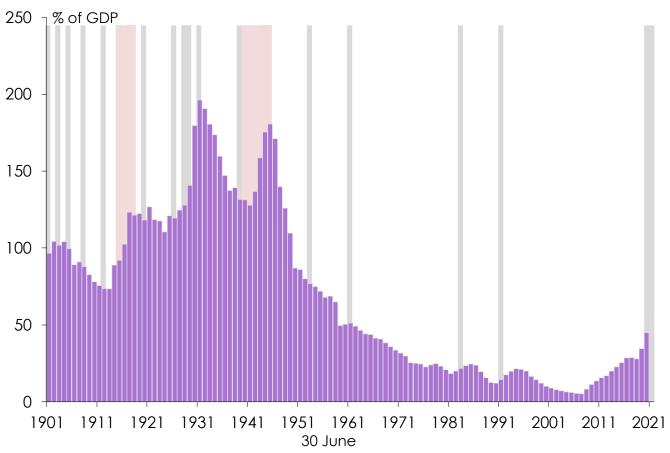


— Pc of GDP (right scale)

**\$** billion (left scale)

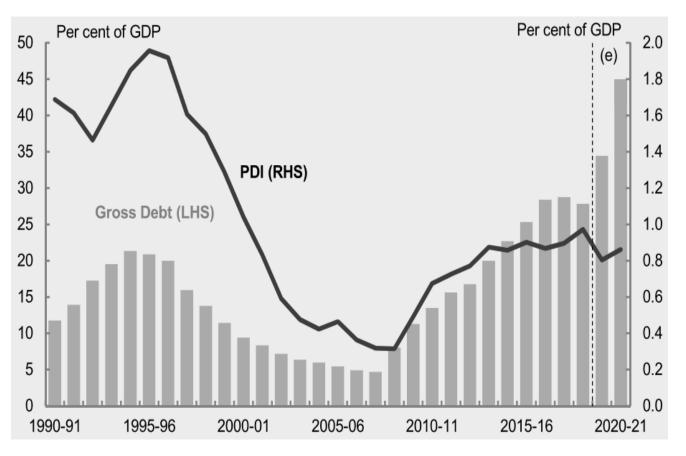
### However there's no need for undue alarm at the level of debt which will be incurred by the Australian Government

#### Australian Government gross public debt



□ Australian governments have coped with much higher levels of gross debt (as a pc of GDP) in the past than are in prospect over the next decade

#### Gross public debt and public debt interest payments

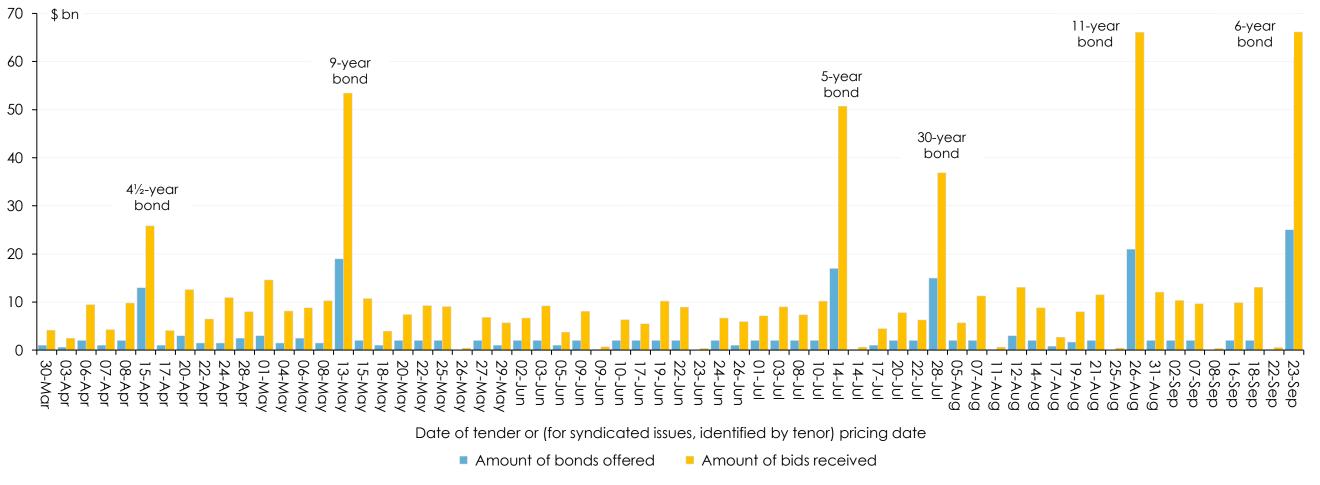


☐ Thanks to much lower interest rates, the Government will actually be spending less on interest payments, as a pc of GDP, in 2020-21 than in any of 2013-14 through 2018-19



### The Australian Government continues to have absolutely no difficulty financing its significantly higher deficits

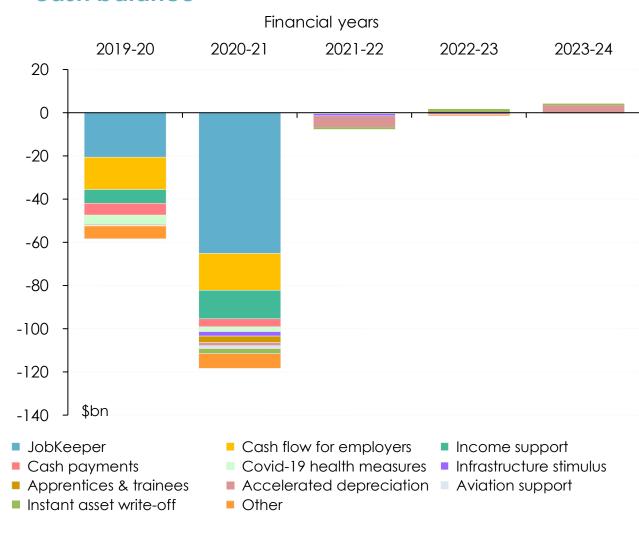
#### Australian government bond issuance since March 2020



Since 30<sup>th</sup> March, the Australian Office of Financial Management (which conducts the Government's borrowing programs) has issued \$202.1bn of Treasury bonds - based on the volume of bids received it could have borrowed \$709bn with yields at most 4 basis points (0.04 of a pc point) above the highest yields actually accepted

### The Government has provided a massive fiscal stimulus during the June and September quarters, but this is set to wind back in Q4 and beyond

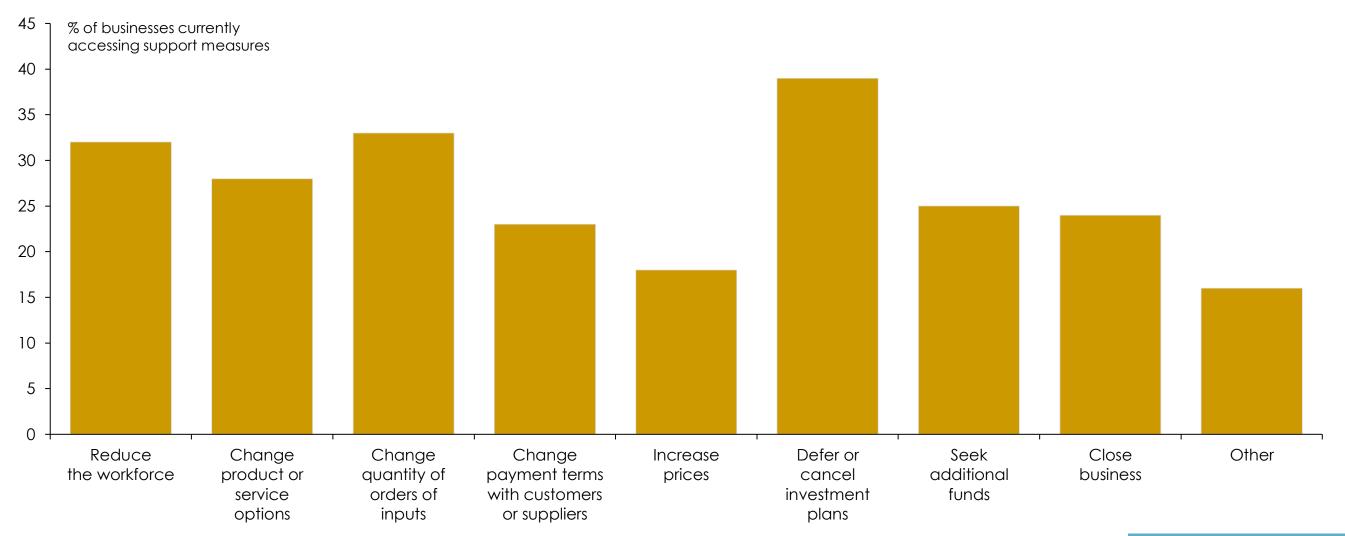
Impact of 'policy decisions' taken since December 2019 on the Australian Government's 'underlying' cash balance



- □ 'Policy decisions' taken since last December's Mid-Year Economic & Fiscal Outlook (MYEFO) represent a discretionary fiscal stimulus equivalent to 2.9% of GDP in 2019-20 and 6.3% of GDP in 2020-21
- ☐ Treasury estimates that this fiscal support boosted by real GDP (relative to what it would have been otherwise) by ¾% in 2019-20, and will boost it by around 4¼% in 2020-21
  - and that this support prevented the loss of around 700,000 jobs, lowering the peak unemployment rate by around 5 pc points
- ☐ July's decisions to extend 'JobKeeper', and the elevated level of 'JobSeeker' payments (albeit at lower levels) beyond end-September until the end of March have lowered the 'fiscal cliff' that was looming at the end of September
  - nonetheless, as things currently stand there will still be a significant tightening of fiscal policy at the end of this and the next two quarters
- ☐ The OECD this week <u>cautioned</u> that "premature withdrawal of fiscal support would stifle growth", and advised that "prospects for a sustainable recovery could also be strengthened if governments move beyond income support and stimulate aggregate demand directly through public investment"

### Withdrawal of government supports for business may have significant consequences for employment – unless the economy is much improved

Actions that businesses currently accessing support measures expect to take when support measures are no longer available, July 2020



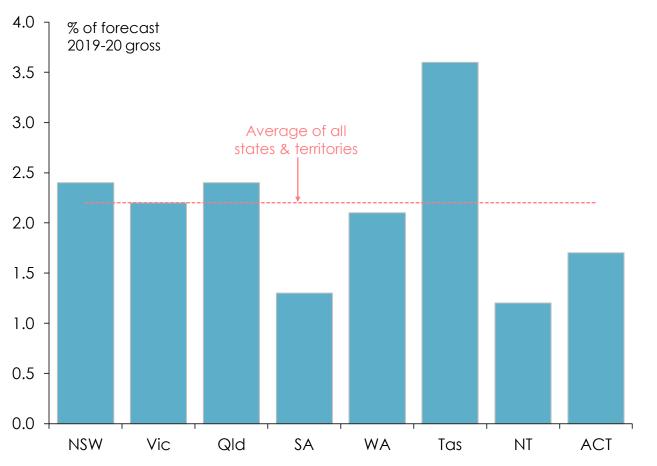


### The Government has foreshadowed a 'recalibration' of its fiscal strategy which emphasizes economic growth and disavows 'austerity'

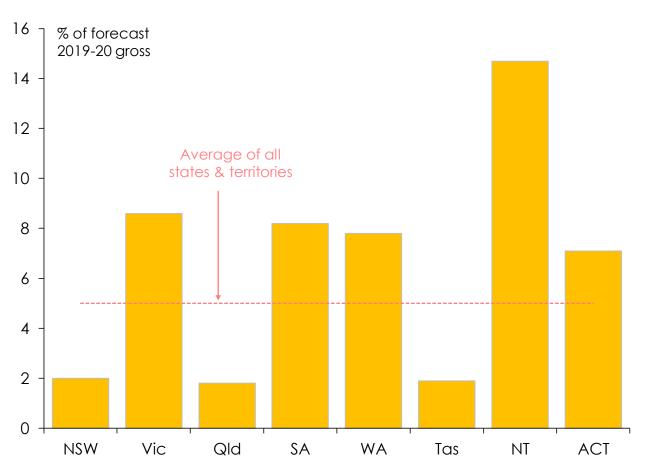
- The Treasurer this week foreshadowed a formal 'recalibration' of the Government's fiscal strategy, to be detailed in the delayed Budget to be delivered on 6<sup>th</sup> October, to "match the circumstances which we now find ourselves in"
   As the Treasurer spelled out in a <u>speech</u> this past Thursday, it is "no longer prudent or appropriate" to seek to
- As the Treasurer spelled out in a <u>speech</u> this past Thursday, it is "no longer prudent or appropriate" to seek to "deliver budget surpluses of sufficient size to ... eliminate net debt over the medium term"
  - pursuing that objective would "now be damaging to the economy" and "unrealistic"
- ☐ This new fiscal strategy will consist of two phases
- ☐ The first phase, which will "remain in place until the unemployment rate is comfortably back under 6%", will have three elements -
  - allowing 'automatic stabilizers' (tax receipts and cyclically-sensitive spending) to "work freely to support the economy"
  - continue providing "temporary, proportionate and targeted fiscal support" to "private sector jobs and investment", and
  - "structural reforms" which "position the economy for the jobs of the future and which improve the ease of doing business"
- ☐ The second phase will also comprise three elements -
  - "structural reforms" that "increase our economy's potential", while maintaining a "central focus on jobs and growth"
  - a shift from providing "targeted and temporary support" to "stabilizing gross and net debt" (expressed as pc of GDP) while retaining the 23.9% 'cap' on the ratio of tax revenue to GDP, and
  - starting "the hard work of rebuilding our fiscal buffers"
- ☐ Crucially, the Government recognizes that "only through repairing the economy can we repair the Budget"
  - not the other way round, as the Abbott Government (2013-15) believed (albeit in different economic circumstances)
- ☐ More details of the Government's 'Economic Recovery Plan', including specific fiscal policy initiatives, will be detailed in next month's budget

### There's been considerable difference in the size of state and territory governments' fiscal responses to Covid-19

### State & territory Covid-19 support and response measures as a pc of gross state product



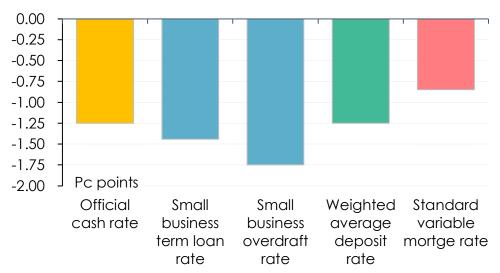
### State & territory general government net debt as at 30 June 2020



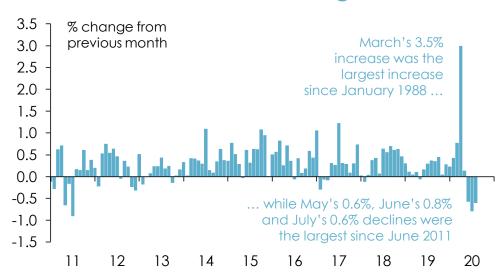
☐ This month RBA Governor Phillip Lowe advised state and territory governments to spend an additional \$40bn (2% of GDP) on infrastructure investment – an amount which S&P Global Ratings said state and territory balance sheets had "plenty of room to accommodate"

### Banks have been playing an important role in assisting mortgagees and businesses cope with shutdowns, and credit law reforms are now in train

#### Changes in interest rates since June 2019



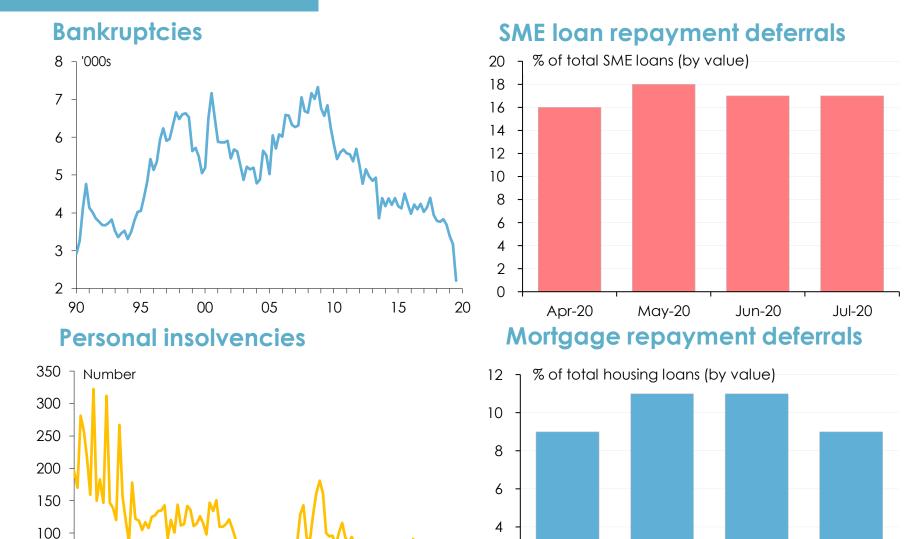
#### **Business credit outstanding**



Source: Reserve Bank of Australia.

- Banks have cut interest rates on small business loans by more than the official cash rate since June last year (when the RBA started cutting rates again)
- ☐ Banks have extended 'repayment holidays' to business and home mortgage borrowers who request it (see <a href="next-slide">next-slide</a> for more details)
  - although it is important to note that under these arrangements interest payments are deferred and capitalized, not foregone
- ☐ These 'repayment holidays' were due to expire at end-September, but banks have announced that they would be extended for up to four months for those customers who were still experiencing difficulties but have good prospects of eventually repaying
- This week the Treasurer foreshadowed <u>changes to credit laws</u> intended to "reduce the cost and time it takes consumers and businesses to access credit" by, among other things
  - allowing lenders to rely on information provided by borrowers, replacing the 'lender beware' principle with a 'borrower responsibility' one
  - removing 'responsible lending' obligations from national consumer credit protection legislation, except for small amount credit contracts
  - requiring debt management firms to hold a credit licence when representing consumers in disputes with financial institutions
- The Government also unveiled <u>proposed reforms to insolvency laws</u> inspired by US 'Chapter 11' processes to give more flexibility to distressed businesses to restructure or wind up their operations

### Bankruptcies and insolvencies are at record lows during the worst recession since the 1930s: this can't last



20

Apr-20

May-20

Jun-20

Jul-20

Sources: <u>Australian Financial Security Authority</u>; <u>Australian Prudential Regulatory Authority</u>.

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- Counter-intuitively, bankruptcies and personal insolvencies have fallen to record lows during the worst recession since the Great Depression
- This reflects the effect of
  - interest rates falling to record lows
  - support programs instituted by the federal and state governments, including JobKeeper, 'Boosting Cash Flow for Employers, and relief from rent payments
  - suspension of the obligations on directors under the Corporations Law to avoid trading while insolvent
  - debt service repayment 'holidays' offered by banks to mortgage and SME customers
- ☐ The last two measures were originally scheduled to expire at the end of September
  - relief from directors' duty to prevent insolvent trading has been extended to 31st December
  - banks have agreed to extend loan repayment holidays by up to four months, to no later than 31<sup>st</sup> March 2021 – although loan customers will be expected to demonstrate that they will be able to resume repayments
- The Government this week foreshadowed <a href="https://changes.to.bankruptcy.laws">changes to.bankruptcy.laws</a> which would allow businesses with debts of less than \$1mn greater control of debt restructuring

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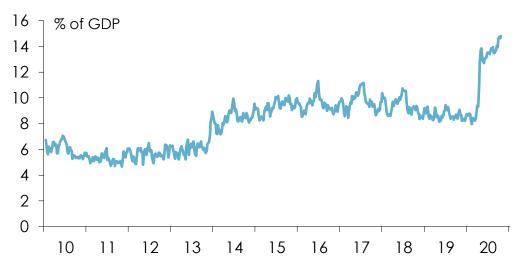
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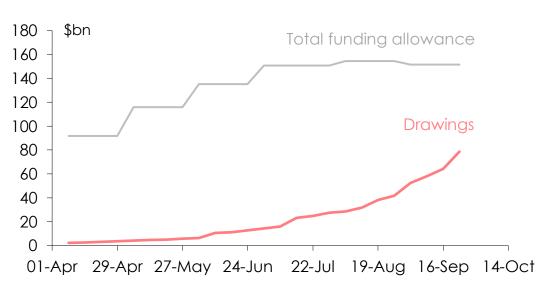
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### The RBA cut its cash rate to a record low in March, and undertaken some 'QE', but now appears to contemplating further easing measures

#### Reserve Bank assets as a pc of GDP



#### **RBA Term Funding Facility**



made towards full employment' and 'it is confident inflation will be sustainably within the 2-3% target band' – which the RBA Governor last month said was likely to be at least three years away

allowed the actual rate to drift down to 0.13%

□ RBA 'quantitative easing' continues to target 3-year yields at 0.25%

☐ The RBA has kept its cash rate target at 0.25% since March, but has

the RBA has committed to keeping the target at this level 'until progress is

- the RBA didn't buy any bonds this week; to date it has purchased \$62.1bn of bonds under its BoJ-style QE of which \$12bn has been since it resumed purchases in the first week of August after a 3-month hiatus (see <u>next slide</u>)
- RBA assets are now equivalent to 14.8 % of GDP (cf. BoC 23 $\frac{1}{2}$ %, US Fed 36%, BoE 43%, ECB 62 $\frac{1}{2}$ %, BoJ 135% see slide 26) and RBNZ 20 $\frac{3}{4}$ %
- ☐ The RBA has provided \$79bn of three-year funding at 0.25% pa to banks and other lenders for on-lending to business, especially SMEs, through its Term Funding Facility
  - of which \$14.4bn was provided in the week ended Wednesday, the largest weekly drawing since the TFF was instituted in April
  - at last month's Board meeting the RBA extended the period for which the TFF will be available from 30<sup>th</sup> September to 30<sup>th</sup> June next year
- ☐ The minutes of this month's RBA Board meeting (released last week) indicate that the Board would "continue to consider how further monetary measures could support the recovery"
  - Deputy Governor Guy Debelle this week hinted that the cash rate, 3-year target yield and TFF rate could be lowered next month (see next slide)

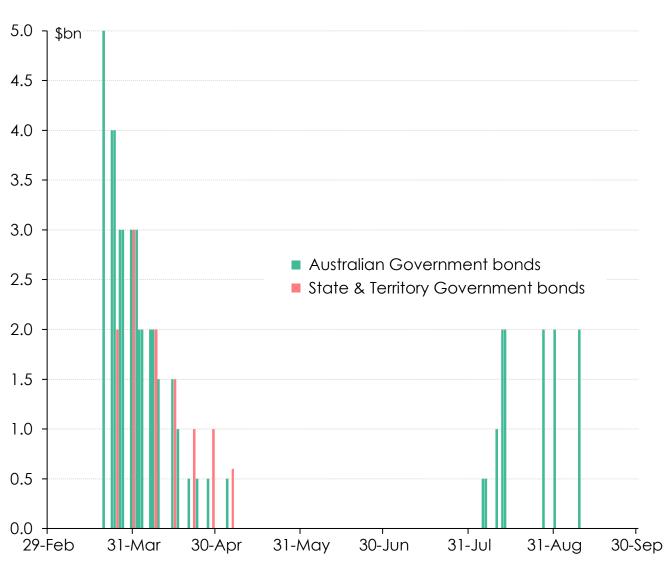
### RBA Deputy Governor Debelle this week appeared to foreshadow further easing next month – and then the RBA copped a serve from a former PM

- □ RBA Deputy Governor Guy Debelle in an <u>online speech</u> appeared to foreshadow some further monetary policy stimulus at next month's Board meeting:
  - "additional [bond] purchases ... further out along the curve" than the 3-year yield which the RBA is currently targeting at 0.25% would "have the effect of further lowering government bond yields at longer maturities" which would in turn "incentivise investors to switch into other assets, including potentially foreign assets ... and can contribute to a lower exchange rate [emphasis added]
  - "it is possible to further reduce" the interest rate paid on banks' Exchange Settlement balances at the RBA (currently 0.1%), the 3-year yield target and the TFF borrowing rate (both currently 0.25%)
- □ Dr Debelle again downplayed the likelihood of direct FX intervention ("not clear this would be effective") and negative rates ("empirical evidence is mixed", "can encourage more saving", and importantly "those economies with negative rates have not lowered them further"
  - some commentators seized on the fact that Debelle didn't repeat Governor Lowe's <u>previous characterization</u> of negative rates as "extraordinarily unlikely" as suggesting that negative rates were in fact now "less unlikely" but that's almost certainly an 'over-interpretation'
- On Wednesday the RBA was the object of an <u>extraordinary and absurd attack</u> by former Prime Minister Paul Keating, who attacked what he called the "high priests of the incremental" at what he called "the Reverse Bank" for "having another of its dalliances with indolence", and for "lacking the courage to allow monetary financing of deficit spending" or "even ambitiously buying sufficient bonds in the secondary market, like the ECB or BoJ"
  - Mr Keating, who as Treasurer in his notorious <u>'Placido Domingo' speech</u> of 7th December 1990 said he had "Treasury in my pocket, the Reserve Bank in my pocket ... the financial community both here and overseas in my pocket", hasn't noticed that the RBA has no need to buy bonds directly from the Government, or in large quantities in the secondary market
  - because market participants have been more than happy to purchase over 3½ times as much bonds as the government wants to sell (slide 99)



## The RBA hasn't bought any bonds since 9<sup>th</sup> September, but the market is now pricing another cut in the cash rate, and in the 3-year yield target

#### RBA open market bond purchases



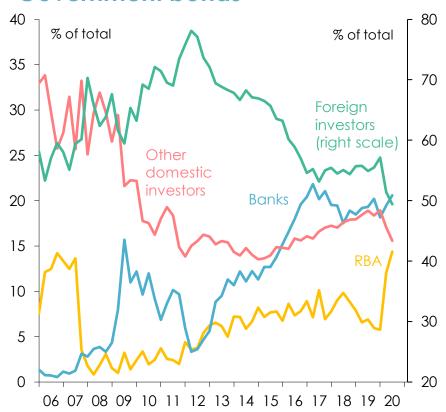
#### Interest rates



CORINNA ECONOMIC ADVISORY

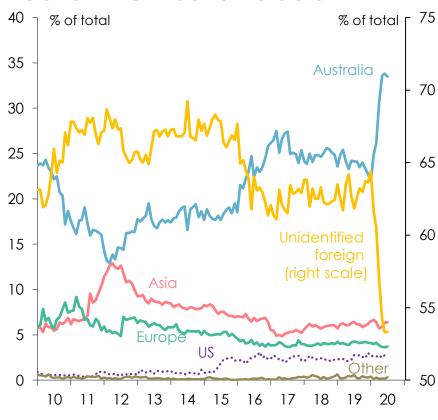
# The RBA increased its holdings of federal & state bonds by \$92bn in the first half of 2020, absorbing 70% & 53% of the increase in the total stock

## Holders of Australian Government bonds



Australian Gov't bonds on issue rose by \$99bn over the first half of 2020 – the RBA's holdings rose by \$69bn (almost 70% of the total increase), while banks' holdings rose by \$36bn

## Nationality of Australian Government bond holders



Foreign investors <u>haven't</u> reduced their holdings of Australian Gov't bonds this year, but nor have they added to them, so their <u>share</u> of total holdings has fallen

## Holders of State and Territory Government bonds



State & Territory Gov't bonds outstanding increased by \$44bn over the first half of 2020, with the RBA and banks increasing their holdings by \$23bn and \$21bn respectively



# The A\$ dropped $3\frac{1}{2}\%$ to a 2-month low against the US\$ this week, the result of a rebound in the US\$, lower iron ore prices and RBA rate cut hopes



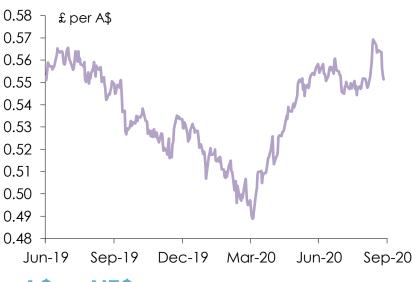
## The A\$ was also weaker against third currencies, reflecting the general increase in risk aversion (which is always bad for the A\$)



## A\$ vs Chinese yuan Yuan per A\$



A\$ vs British pound







AS vs Euro



A\$ vs NZ\$





# The factors which helped us achieve almost 30 years of continuous economic growth may not be so helpful in the post-Covid environment

Australia's record-breaking run of almost 30 years without two or more consecutive quarters of negative real GDP growth owed a lot to four factors -

#### Population growth

- Australia's population grew at an average annual rate of 1.5% pa over the 19 years to 2019, compared with 0.6% pa for all 'advanced' economies
- net immigration accounted for 58% of this growth ie, in the absence of immigration Australia's population would have grown by only 0.7% per annum, on average, and would have aged more rapidly

#### Our unusual (for an 'advanced' economy) economic relationship with China

- China's rapid economic growth, industrialization and urbanization significantly boosted both the volumes and prices of many of our commodity exports, under-wrote the post-GFC mining investment boom, pushed down the prices of many of the things which we import, and contributed significantly to the growth of our tourism and education sectors
- By contrast, China's rapid economic growth undermined the competitiveness of manufacturing industries which account for a much larger share of most other 'advanced' economies, put downward pressure on the prices of their exports and put upward pressure on the prices of commodities which they import

#### ☐ The 'housing boom'

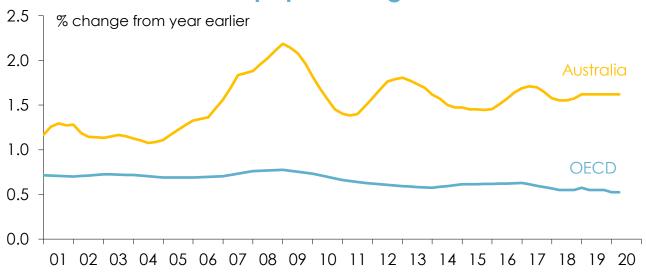
- Australia's 'housing boom' started earlier (mid-1990s) and ended later (2017, rather than 2007-08) than in most other 'advanced' economies (some such as Japan, Italy and France didn't have a housing boom at all)
- the two-way interaction between rising house prices and rising household debt underwrote stronger growth in household consumption spending, for longer, than would have occurred otherwise
- ☐ (Mostly) good macro-economic policy especially by comparison with other 'advanced' economies
  - although we haven't done nearly as well as we once did on the micro-economic front (especially with regard to productivity)

The first three of these are likely to be of less assistance from now on

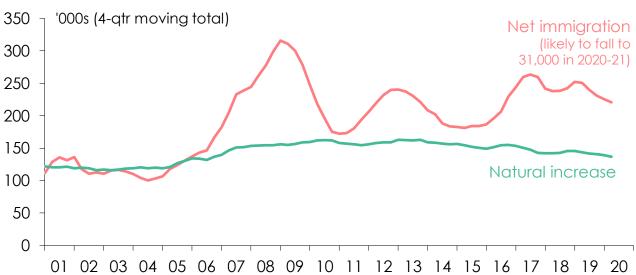


# Australia's above-average economic growth over the past 20 years owes a lot to above-average population growth: that's about to change

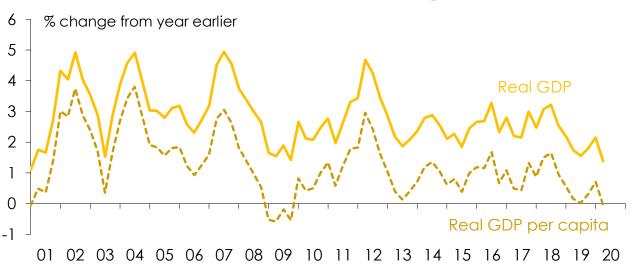
#### Australia and OECD population growth



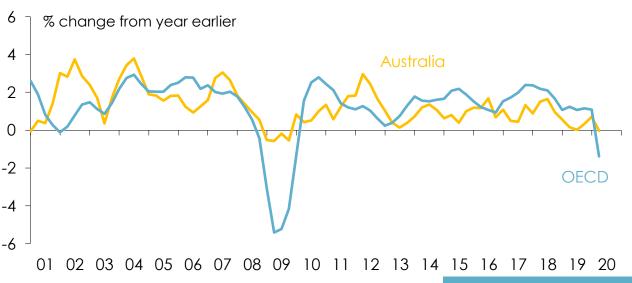
## Sources of Australia's population growth



#### Australian GDP and per capita GDP growth



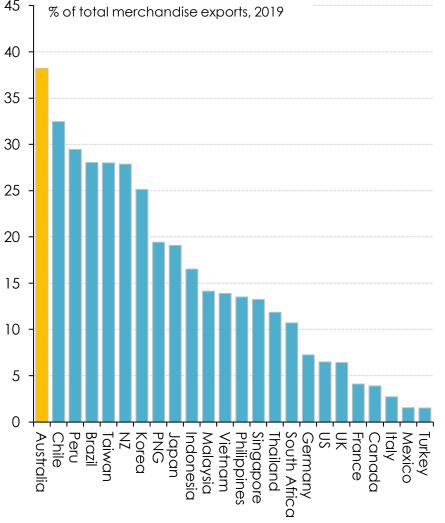
## Australia and OECD per capita real GDP growth



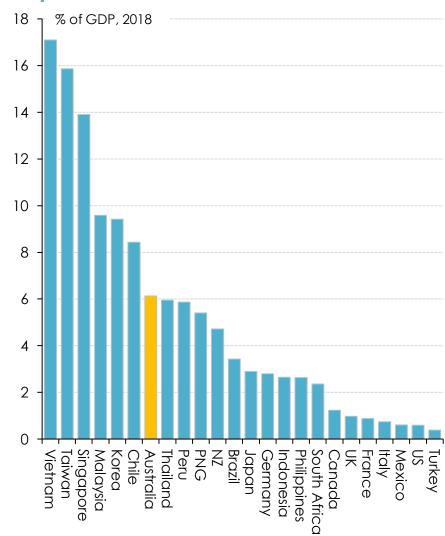


# Australia has benefited enormously from its economic relationship with China over the past 25 years, but will that continue to be the case?

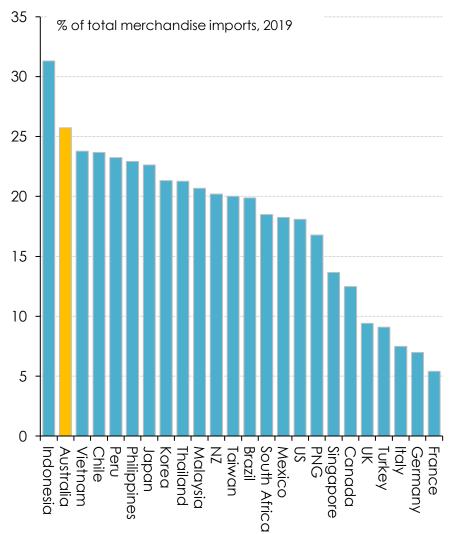
## Merchandise exports to China as a pc of total



## Merchandise exports to China as a pc of GDP

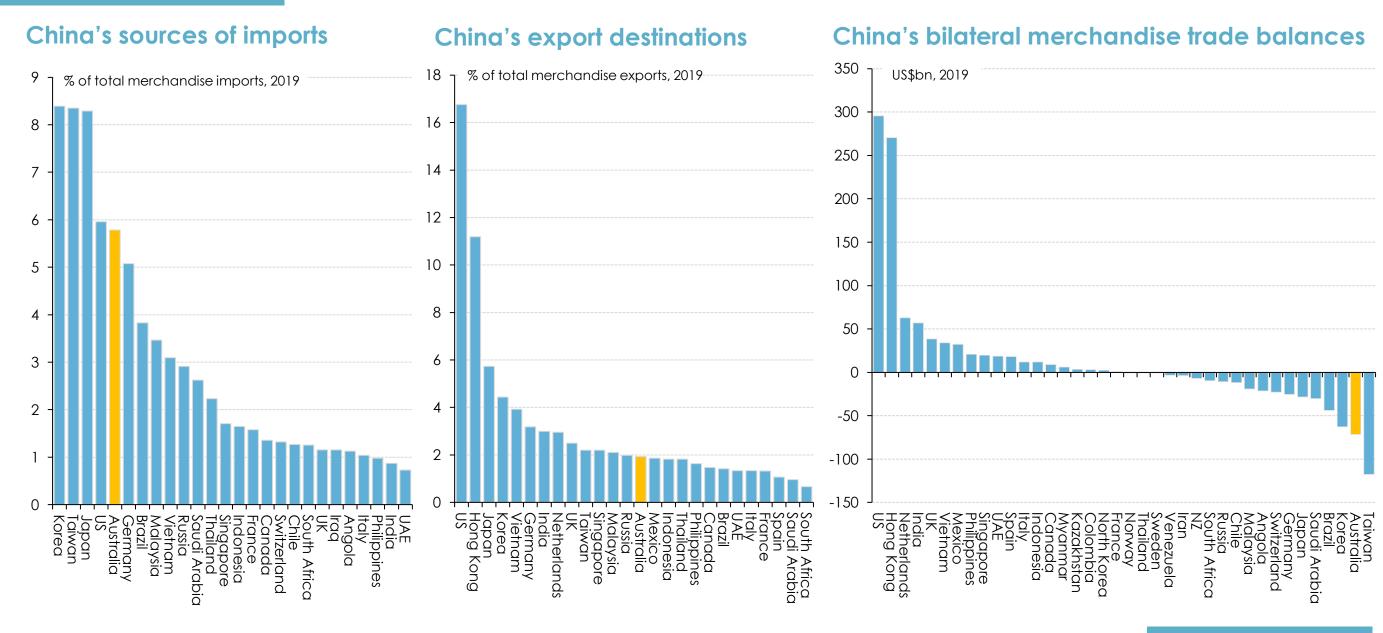


## Merchandise imports from China as a pc of total





# Australia is China's 5<sup>th</sup> biggest source of imports (of goods), 14<sup>th</sup> biggest export market, and has the 2<sup>nd</sup>-largest bilateral trade surplus with China

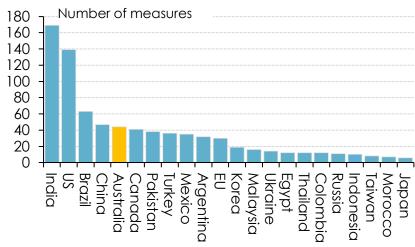




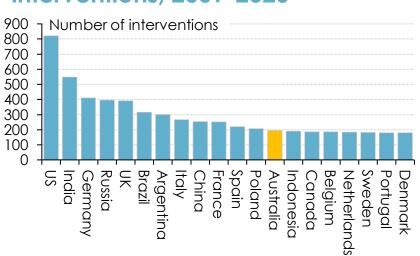


# China's threats against Australian exports of barley, beef, wine, coal, tourism and education aren't justified, but we aren't 'Snow White' either

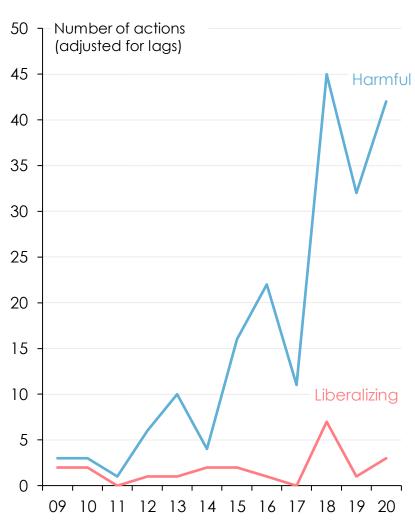
## Number of anti-dumping measures imposed, 2015-19



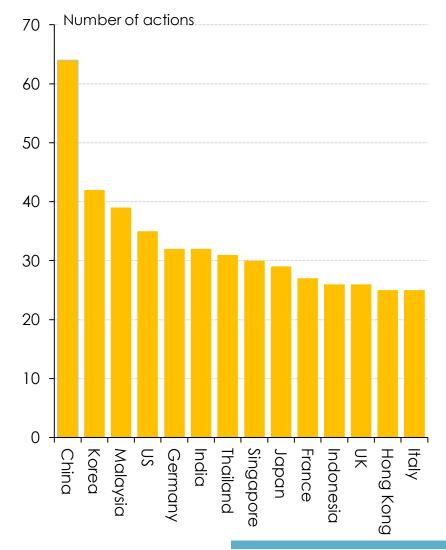
## Number of harmful trade policy interventions, 2009-2020



## Australian trade policy measures since 2009

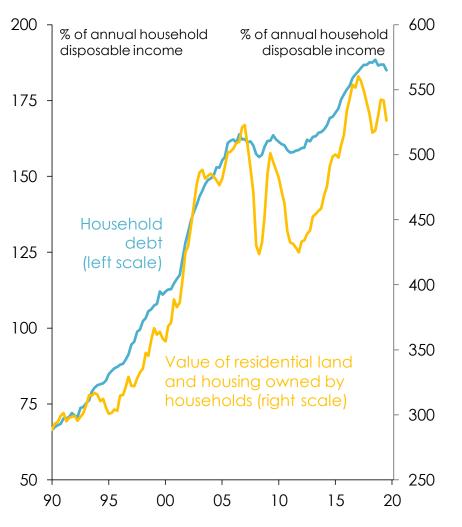


## Countries adversely affected by 'harmful' Australian trade actions

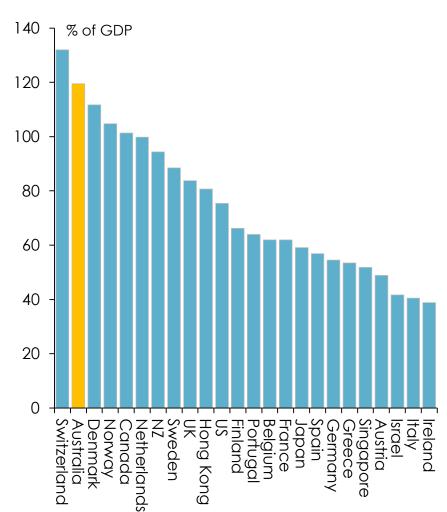


## Rising property prices and household debt are unlikely to underpin Australian economic growth as they have done for most of the past 30 years

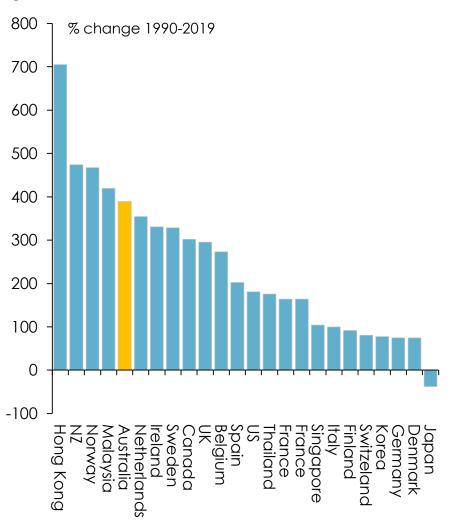
## Australian housing wealth and household debt



## Household debt as a pc of GDP, December 2019



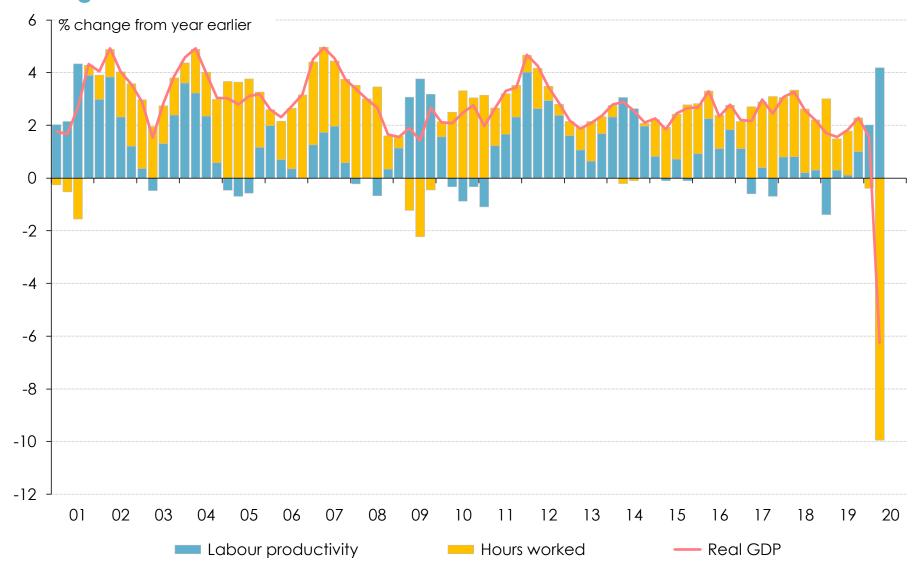
## Increase in residential property prices, 1990-2019





# Australia has come to rely much more heavily on increased labour input to drive economic growth in recent years – we can't keep doing that

## Labour input and labour productivity contributions to Australian real GDP growth



- Over the five years between the end of the 'mining boom' and the onset of the Covid-19 pandemic, 72% of Australia's real GDP growth came from increased labour input, and only 28% from labour productivity growth
- By contrast, between the end of the early 1990s recession and the onset of the global financial crisis, 46% of Australia's real GDP growth came from increased labour input and 54% from productivity growth



## **New Zealand**

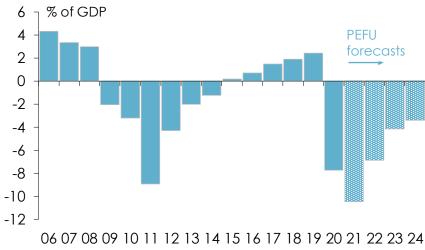
# New Zealand's economy shrank 12.2% in Q2 – less than expected – and the budget position isn't quite as dire as forecast in the May Budget

# Real GDP NZ Treasury PEFU forecasts NZ Treasury PEFU forecasts Real GDP shrank 12.2% in Q2 (the RBNZ had assumed -14.2%, NZ Treasury had assumed 16%) to be 12.4% lower than in Q2 2019 Note: GDP (P) 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20

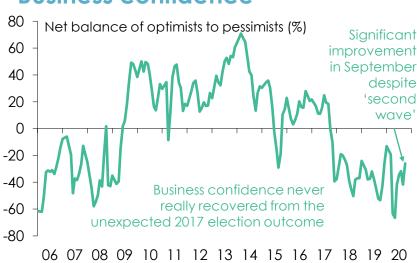
#### Consumer confidence



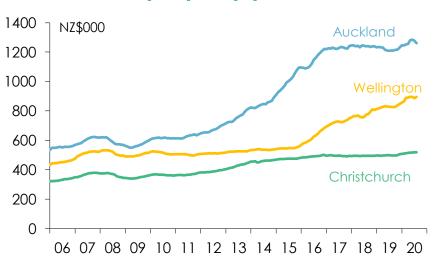
NZ government budget balance



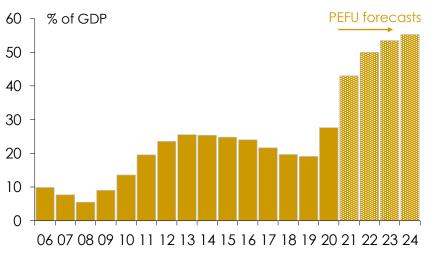
#### **Business** confidence



## Residential property prices



NZ 'core Crown debt'

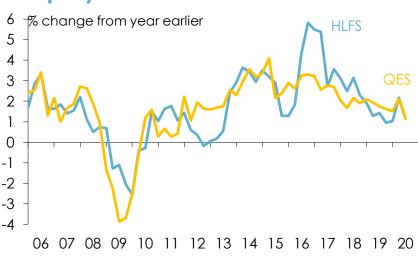


Note: New Zealand uses GDP(P) as its preferred measure of GDP. Unemployment rates are quarterly. The measure of the NZ Government budget balance is 'OBEGAL', operating balance excluding gains and losses (an accrual accounting measure). Net 'core Crown debt' excludes assets of the NZ Super Fund, student loans and other advances, and financial assets held for public policy purposes. Fiscal data (the two right-hand charts) are for fiscal years ended 30<sup>th</sup> June. Sources: Statistics NZ; ANZ-Roy Morgan; ANZ Bank; Quotable Value NZ; NZ Treasury <u>Pre-Election Economic and Fiscal Update</u> 2020.

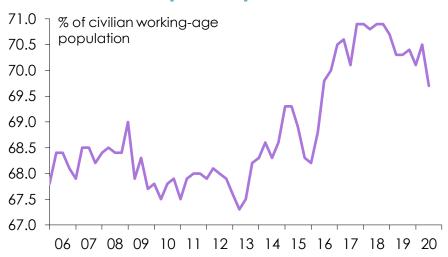


# New Zealand's wage subsidy scheme appears to have prevented a large rise in unemployment, although hours worked have fallen sharply

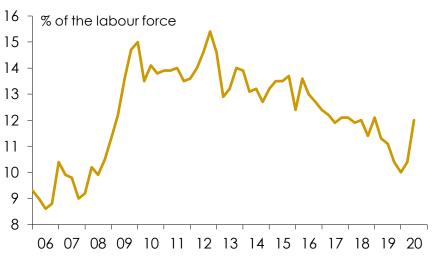
## **Employment**



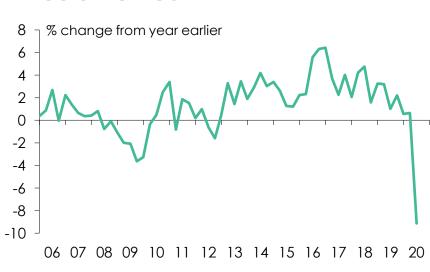
#### Labour force participation rate



#### Labour force under-utilization rate



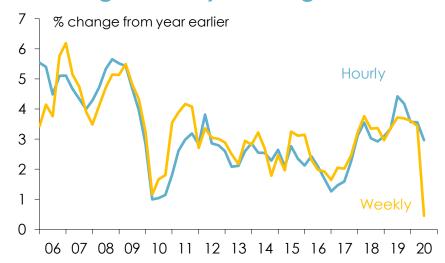
#### **Hours worked**



#### **Unemployment rate**



#### Average weekly earnings

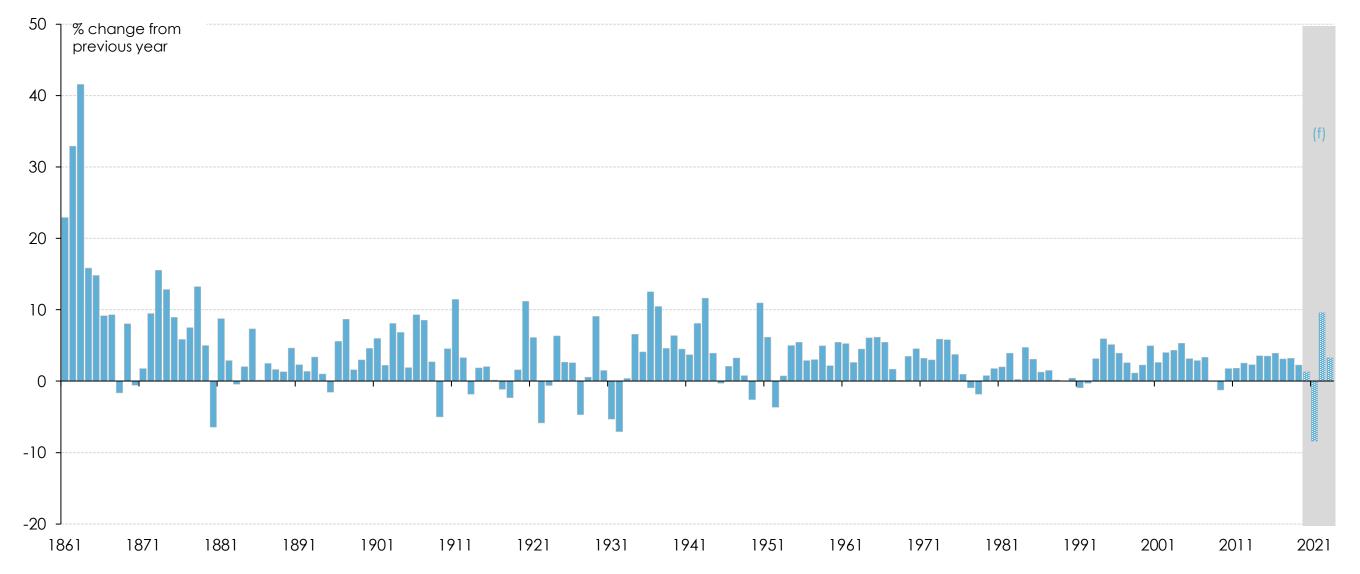


Note: New Zealand labour force data are only published quarterly. There are two 'headline' series on employment – the household labour force survey (HLFS) which counts the number of people in employment during the quarter; and the quarterly employment survey (QES), which counts the number of 'filled 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 4<sup>th</sup> November.



# The Reserve Bank of New Zealand is expecting the fall in real GDP in the year ended March 2021 to be the biggest in recorded NZ history

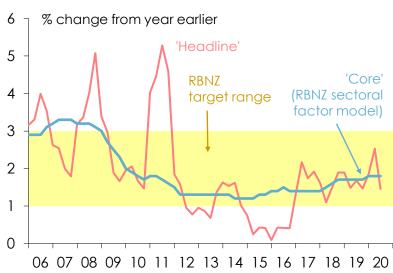
### Annual growth in New Zealand real GDP, 1861-2023



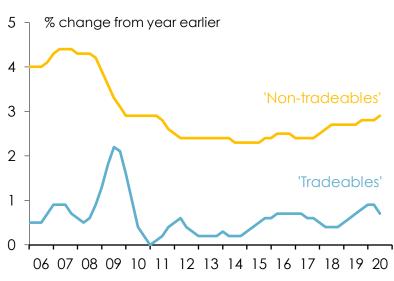


## Inflation remained comfortably in the RBNZ's target band in the June quarter

#### Consumer prices



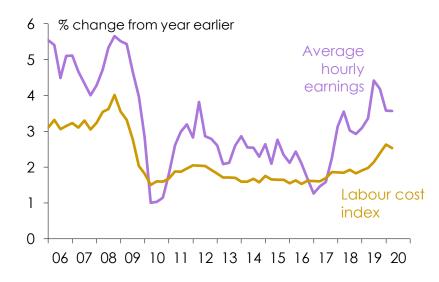
#### Components of 'core' inflation



#### Household inflation expectations



#### Labour costs

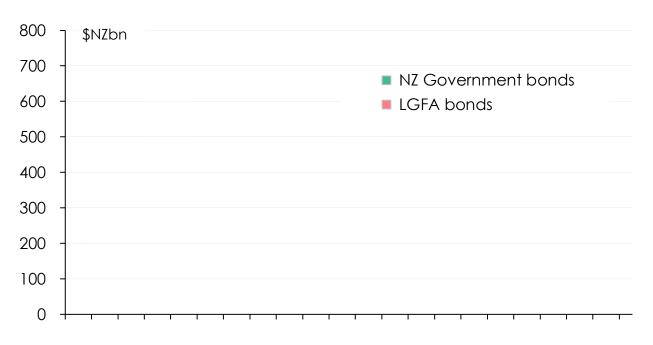


- The CPI fell 0.5% in the June quarter, reflecting a 12% fall in petrol prices, partly offset by a 16% increase in food prices and SNZ's inability to capture fully the effect of freeze on residential rents between 26th March and 25th September
- The June quarter result cut the annual 'headline' inflation rate to 1.5%, from the 8-year high of 2.5% recorded in the March quarter (which resulted from large increases in rents, food and cigarette & tobacco prices
- ☐ The annual 'core' inflation rate remained unchanged at 1.8%, with a further slight acceleration in 'core' non-tradeables inflation (to its highest level in 9 years) offset by an easing in 'core' tradeables inflation
- Inflation expectations remain low, and pressures from labour costs are likely to abate given the weakening in the labour market since March



# The RBNZ has expanded its 'QE' program, floated the possibility of negative rates (again), as well as a 'funding for lending' program

## RBNZ open market bond purchases



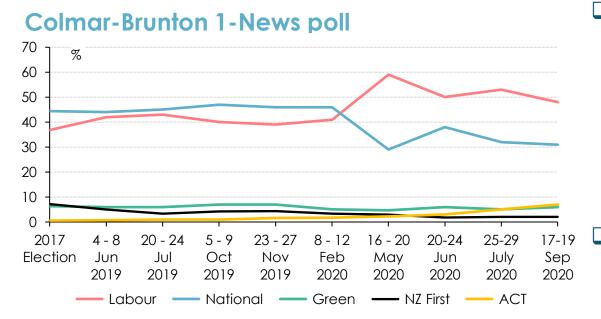
#### New Zealand interest rates



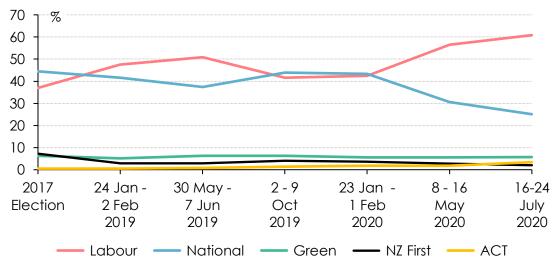
CORINNA ECONOMIC ADVISORY

- RBNZ has adopted an ECB-style QE, establishing a Large Scale Asset Program initially set at \$NZ33bn ( $10\frac{1}{2}$ % of GDP), increased to \$60bn ( $19\frac{1}{2}$ % of GDP) in May, and last month to \$100bn ( $32\frac{1}{2}$ % of GDP) by June 2022
- □ This week the RBNZ again bought NZ\$1.4bn of bonds, the largest weekly totals since June, and bringing its total purchases since 25<sup>th</sup> March to \$NZ32.2bn (10½% of GDP): 3- and 5-year yields traded at negative yields this week
- □ This week's Monetary Policy Committee meeting <u>directed</u> the RBNZ to have an FLP "ready to deploy before the end of the year", while also indicating that it was "prepared to lower the OCR to provide additional stimulus if required" (and noted that "market participants now believed that it was likely the OCR would be reduced below zero next year")

# PM Jacinda Ardern's Labour Party continues to hold a commanding lead in opinion polls for the 17<sup>th</sup> October election



#### Reid Research / TV3 poll



Note: 'ACT' is the Association of Consumers and Taxpayers, a libertarian party which currently holds one constituency seat in the NZ Parliament. Sources: <u>New Zealand</u> Electoral Commission; Colmar Brunton; Reid Research.

- □ New Zealand uses a 'mixed member proportional' (MMP) system to determine the composition of its 120-seat Parliament
  - each voter has two votes, one for his or her constituency and one for a party list
  - 71 members are elected from constituencies, while the other 49 are chosen from party lists such that each party has the same share of seats in the Parliament as its share of the national vote, provided it has won at least 5% of the national vote or one constituency seat
  - At the 2017 election, the then incumbent centre-right National Party won 56 seats with 44.6% of the vote, but Labour which won 46 seats with 36.9% of the vote was able to form government in coalition with the conservative-populist NZ First (9 seats with 7.2% of the vote) and the Greens (8 seats with 6.3% of the vote)
  - Last week Labour promised to introduce a new top personal income tax rate of 39% on incomes over NZ\$ 180K (currently the top rate is 33% and it applies to incomes of over NZ\$70K
  - 1 The latest poll, by Colmar Brunton (released on Wednesday), shows Labour's lead over National narrowing by 4 pc pts to a still-commanding 17 pc pts
    - if replicated at the election Labour would win 62 seats (up 6, enough to govern in its own right), National 41 (down 15), ACT 9 (up 8) and the Greens 8 (unchanged), while Deputy PM Winston Peters' NZ First would lose all its seats

## Some possible longer-term consequences

## Some other possible longer-term consequences of the pandemic

of US credibility, competence and commitment

| An accelerated retreat from 'globalization'  |
|--|
| <ul> <li>prompted by mistrust of international supply chains and desire for greater self-sufficiency in 'essential' products</li> <li>greater government control over movement of people and capital across international borders likely to persist</li> </ul> |
| Greater expectations of government   |
| <ul> <li>having done things previously considered 'unthinkable' during this downturn, governments may be expected to do more during future downturns</li> </ul>  |
| <ul> <li>there may as a result be heightened demand for hitherto unprecedented government intervention to address other issues (for example climate change)</li> </ul>   |
| A reduced role for (conventional) monetary policy in managing economic cycles  |
| - implying a greater role for fiscal policy (or, alternatively, bigger and perhaps more frequent cycles)   |
| <ul> <li>and as Treasury Secretary Stephen Kennedy has <u>pointed out</u>, "it is highly likely that fiscal multipliers are larger when interest rates are near zero and expected to remain there for the foreseeable future"</li> </ul>                       |
| Changes in ways of working   |
| <ul> <li>at least some employers and employees are likely to maintain the option of (or preference for) 'working from home'</li> <li>possible implications for demand for commercial office space</li> </ul>   |
| Diminished use of mass transit (see <u>slide 59</u> and <u>slide 76</u> )  |
| Accelerated decline in the use of cash for transactions (see slide 80)   |
| Re-think of relationships with China (see slide 89 and slides 114-116)   |
| especially challenging for Australia given our unusual (for an 'advanced' economy) economic relationship with China  |
| Erosion of respect for US leadership and competence  |
| - unless Trump loses the November election (see <u>slide 48</u> ) and Biden as President can reverse the damage done to perceptions  |

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