# ECONOMIC IMPACT OF THE CORONAVIRUS PANDEMIC

11<sup>TH</sup> JULY 2020



#### What's new?

#### The world

- 1,400,826 new Covid-19 cases were confirmed this week, the highest so far, taking the cumulative total to 12½mn; while 33,606 people died (1,700 more than last week), taking the total number of deaths to 554,721
- New case numbers are still rising in 13 countries with large populations (including the US, Brazil, India and Indonesia) but are now falling in the rest of the world (see slide 5)
- Social distancing restrictions have continued to ease in most countries, but have been re-tightened at a regional level in some, including Spain, Germany and Australia (see slide 13)
- The British Government unveiled a 'Plan for Jobs' costing up to £30bn (1.4% of 2019 GDP) of which the largest components were an extension of the UK's version of JobKeeper (a £1,000 payment to employers for each employee who remains employed from end-October through end-January 2021); a 6-month cut in VAT (GST) from 20% to 5% for food and non-alcoholic drinks, accommodation and tourist attractions; and a quadrupling of the threshold for stamp duty on residential property purchases until 31st March 2021
- Singapore's ruling People's Action Party (in office since 1959, the longest of any party anywhere other than China and North Korea) won 83 of the 93 seats in Parliament in Friday's election, but its share of the vote declined to 61.2%, from 69.9% at the last election in 2015, allowing the Opposition Workers' Party to secure a record 10 seats

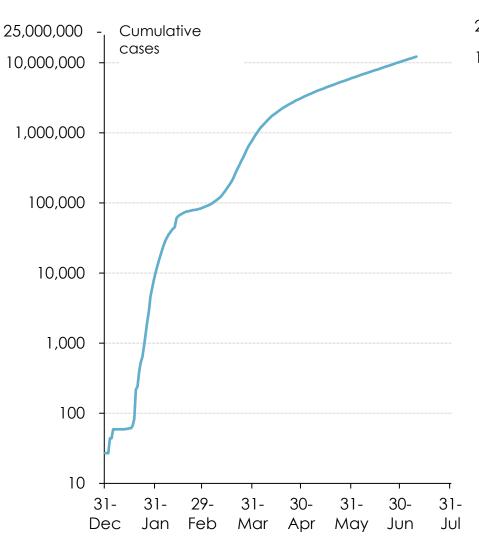
#### **Australia**

- Australia recorded 1,180 new Covid-19 cases this week, the highest number since the week ended 3<sup>rd</sup> April, and the third-highest since the beginning of the pandemic (slide7)
- □ Victoria accounted for 1,029 (87%) of the new cases reported this week, bringing its cumulative total to just 60 less than NSW, even though NSW's population is 1½ mn (22%) larger than Victoria's (slide 8)
- □ In response the Victorian State Government instituted a sixweek lockdown on Greater Melbourne (population 5.1mn) and one adjoining semi-rural shire – this is likely to detract 1-1¼ pc pts from (national) September quarter GDP growth (slides 83 and 98-107)
- As expected the RBA Board left monetary policy settings unchanged at this week's meeting; Governor Lowe noted that although 'the downturn has been less severe than earlier expected ... the nature and speed of the economic recovery remain highly uncertain' and 'fiscal and monetary policy support will be required for some time'
- ☐ Treasurer Josh Frydenberg flagged the possibility that personal income tax cuts currently scheduled to take effect from 1 July 2022 and 1 July 2024 could be 'brought forward' as a form of fiscal stimulus in the 23<sup>rd</sup> July Economic Statement (slide 75)
- ☐ Lending commitments for the purchase of new or existing housing fell 11.6% in May, the largest monthly decline in 30 years, but refinancings surged by 29% (slide 65)

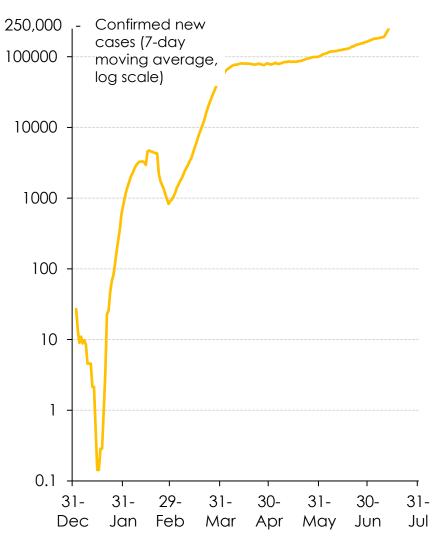
### The virus

## There have been 1.4 mn new cases world-wide over the past 7 days, bringing the global total to 121/4mn, while the death toll is now 544,720

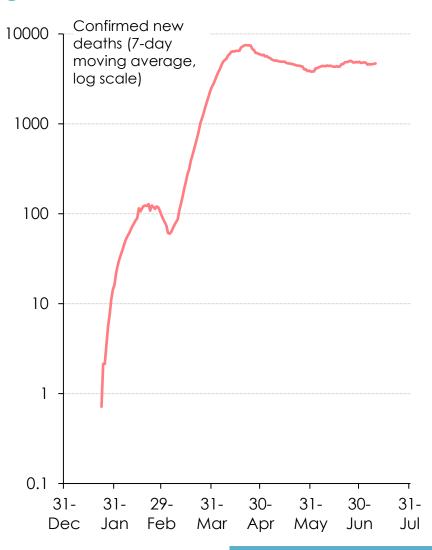
### Cumulative confirmed cases – global total



### New confirmed cases – global total



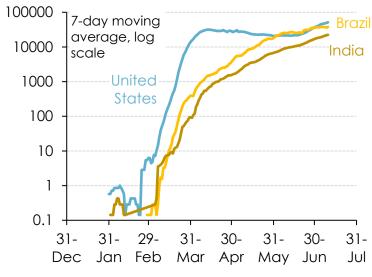
### New deaths – global total

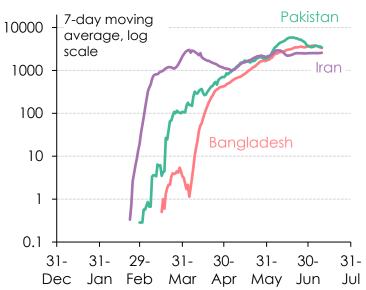


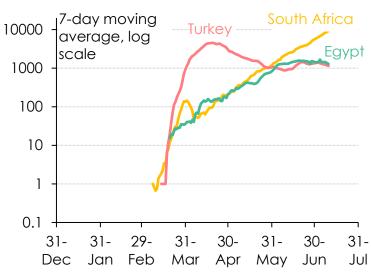


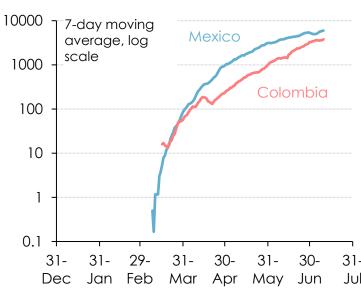
### 13 countries with large populations have yet to 'flatten their curves'

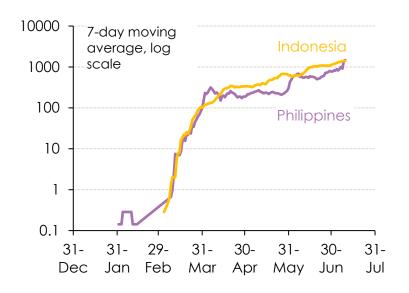
#### Daily new cases

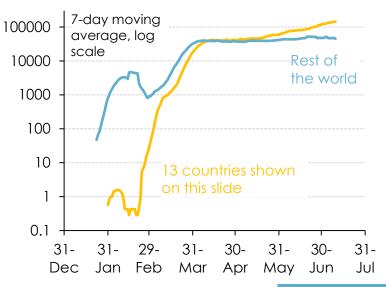








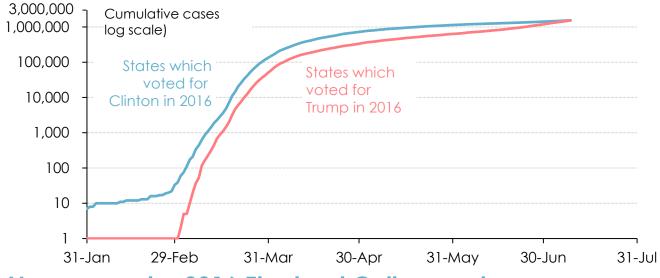




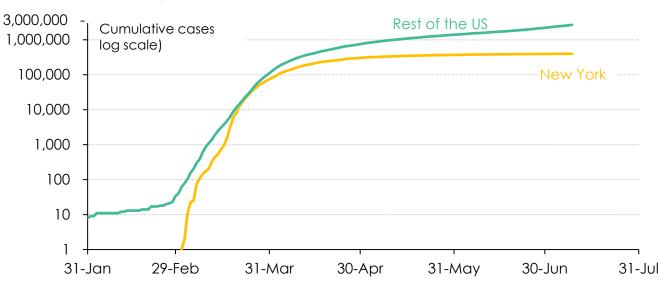


### In the United States, new Covid-19 cases in 'red states' now outnumber those in 'blue states'

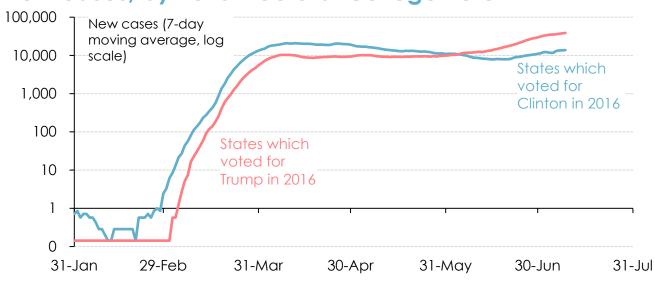
#### Cumulative cases, by 2016 Electoral College vote



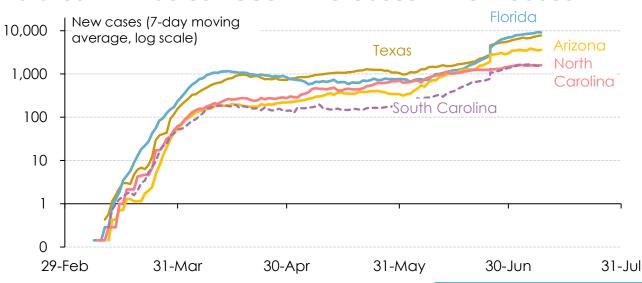
#### New cases, New York vs rest of the United States



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



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

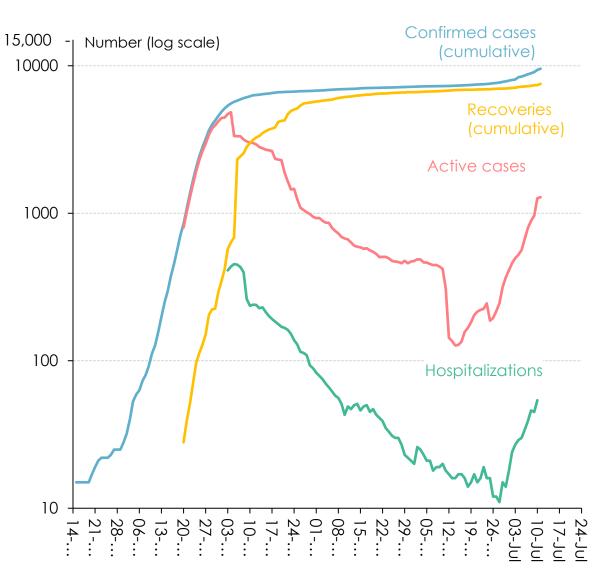


Note: Cases for Maine (whose Electoral College votes are awarded separately by each of its two Congressional districts) are split by how each of its 16 counties voted in 2016. Sources: USAFacts.org; Centers for Disease Control and Prevention; Corinna. Latest data are for 9<sup>th</sup> July.

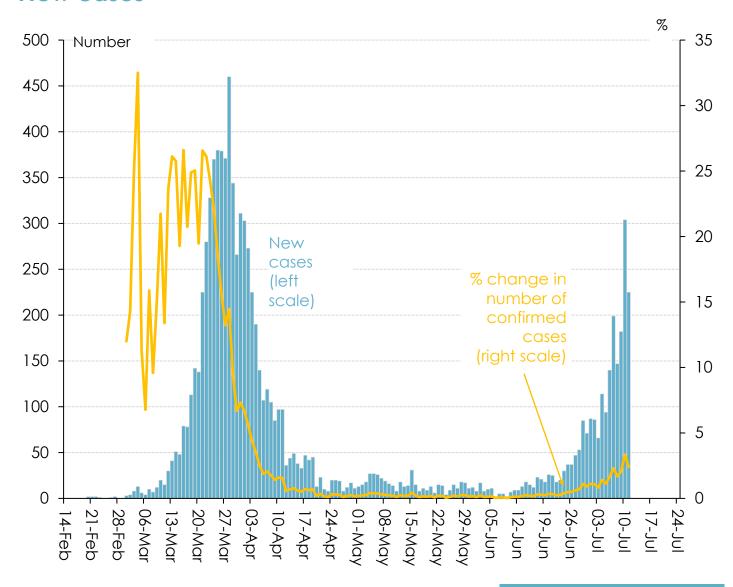


### The number of new cases in Australia has picked up in the past four weeks as restrictions have been eased

#### **Confirmed cases**

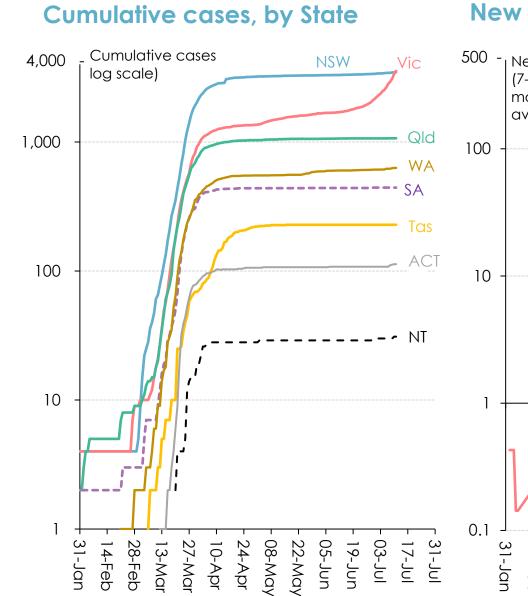


#### New cases

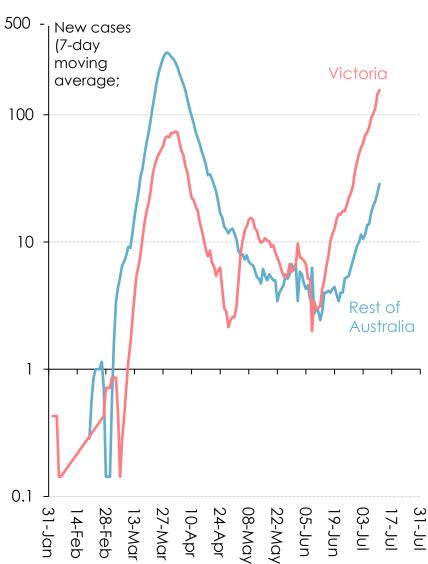




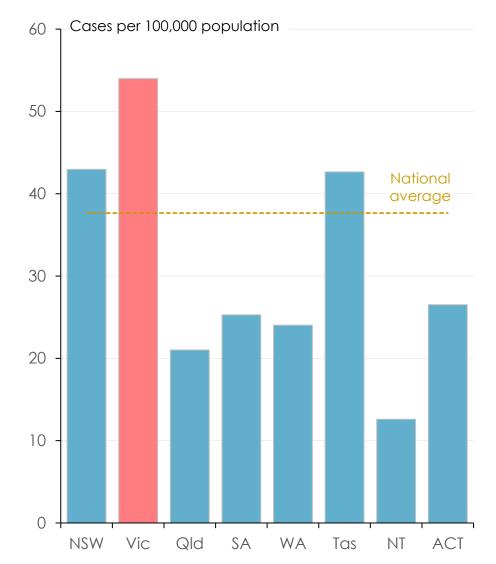
# 89% of the new cases in Australia over the past three weeks have been in Victoria (and 7% in New South Wales)







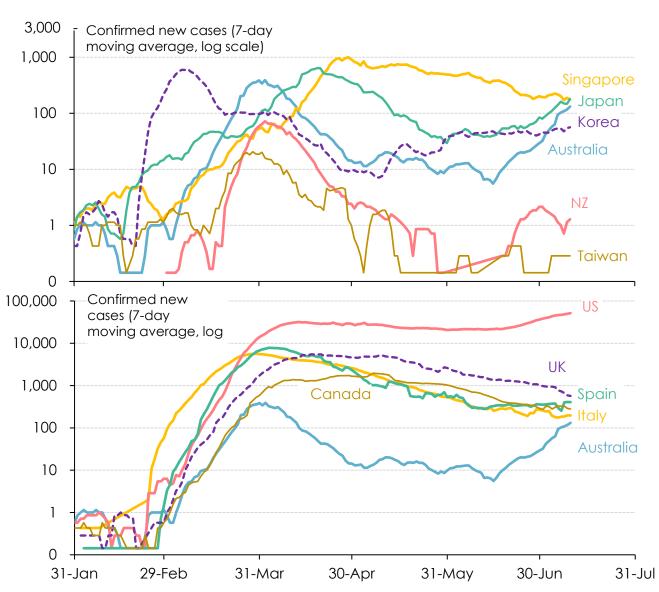
#### Cases per 100,000 population



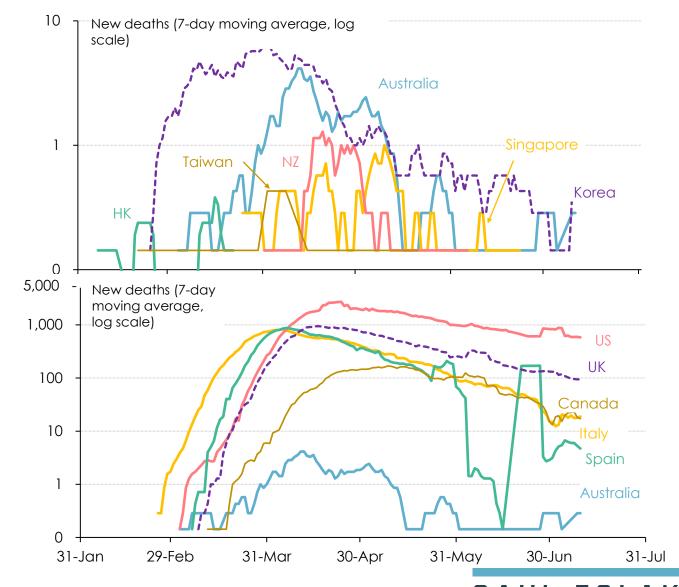


## Australia is now one of the few 'advanced' economies (apart from the US) experiencing a renewed surge in infections

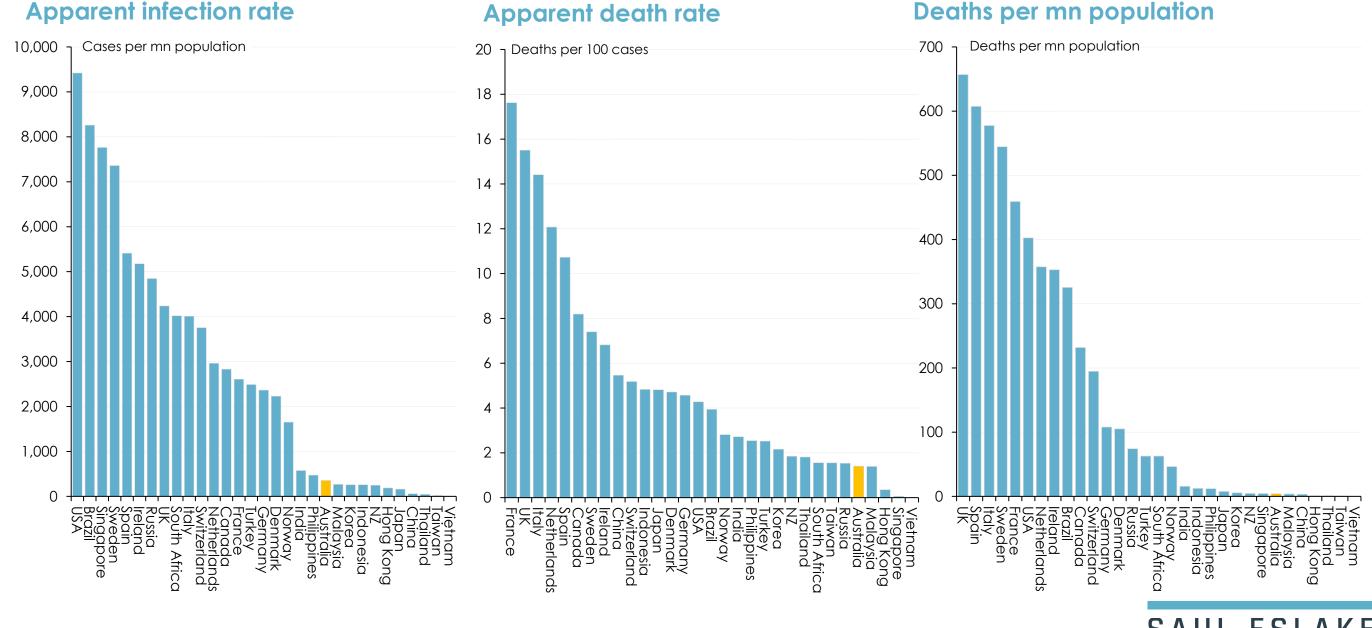
#### Daily new cases



#### Daily new deaths

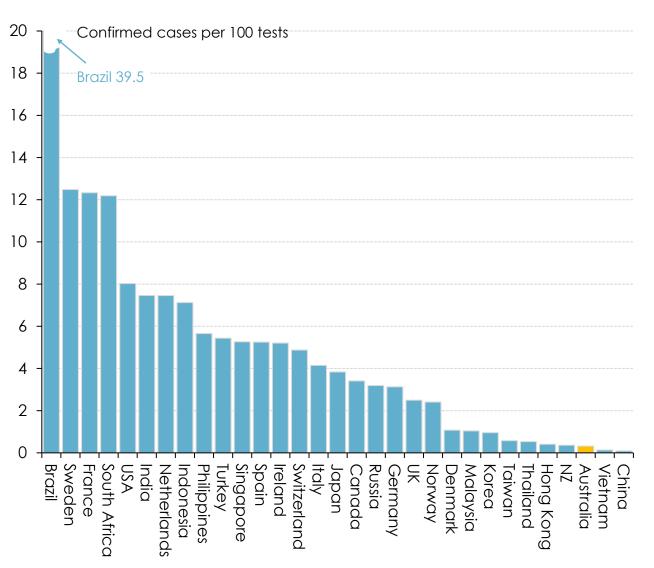


### Even so, Australia's infection and fatality rates remain, along with NZ's and most East Asian countries', low by international standards

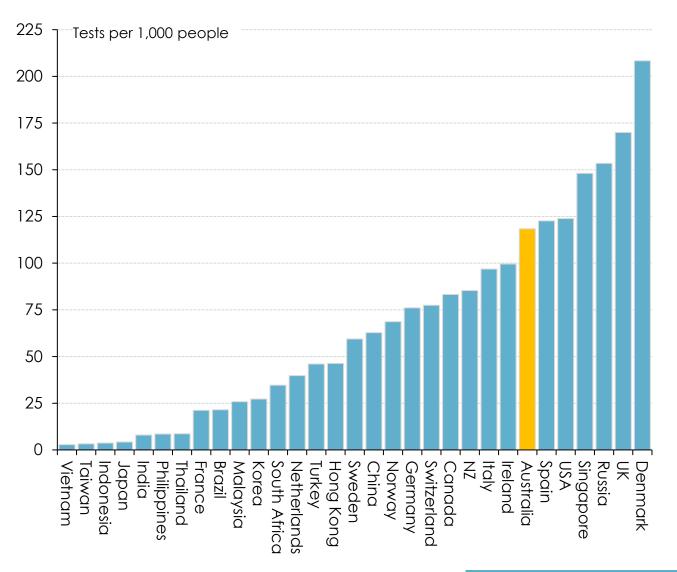


# Australia's testing regime appears sufficiently broad for the low infection and death rates to be seen as 'credible' (ie not due to low testing)

#### Confirmed cases per 100 tests



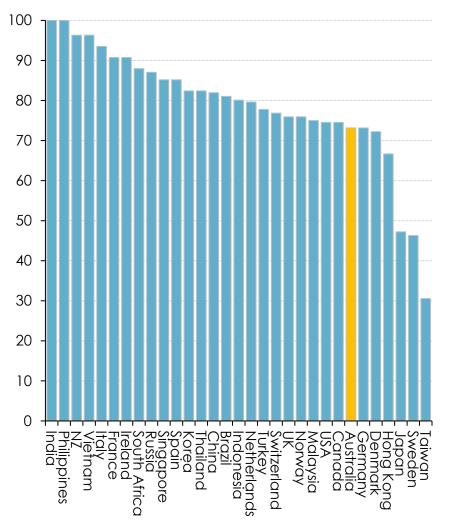
#### Tests per thousand of population



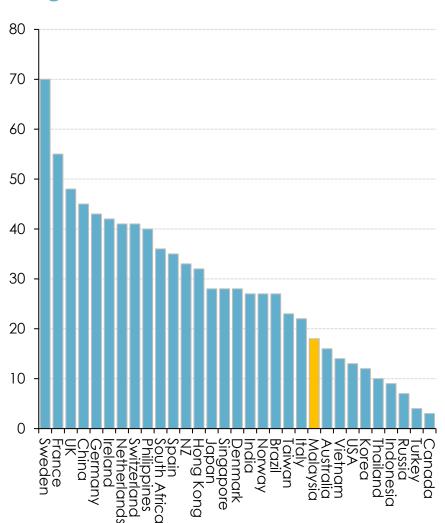


### Australia's restrictions were, on average, less stringent than in most other 'advanced' economies, or other economies in our region

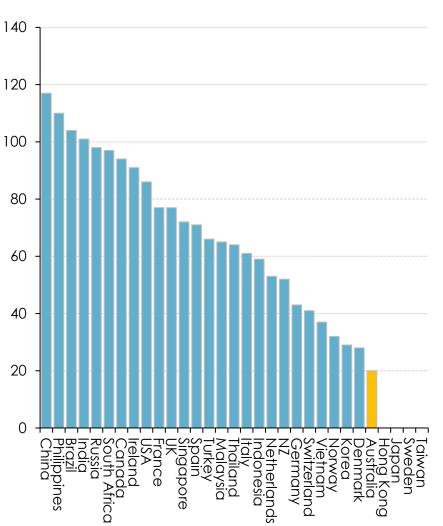




### Number of days restrictions at highest level



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

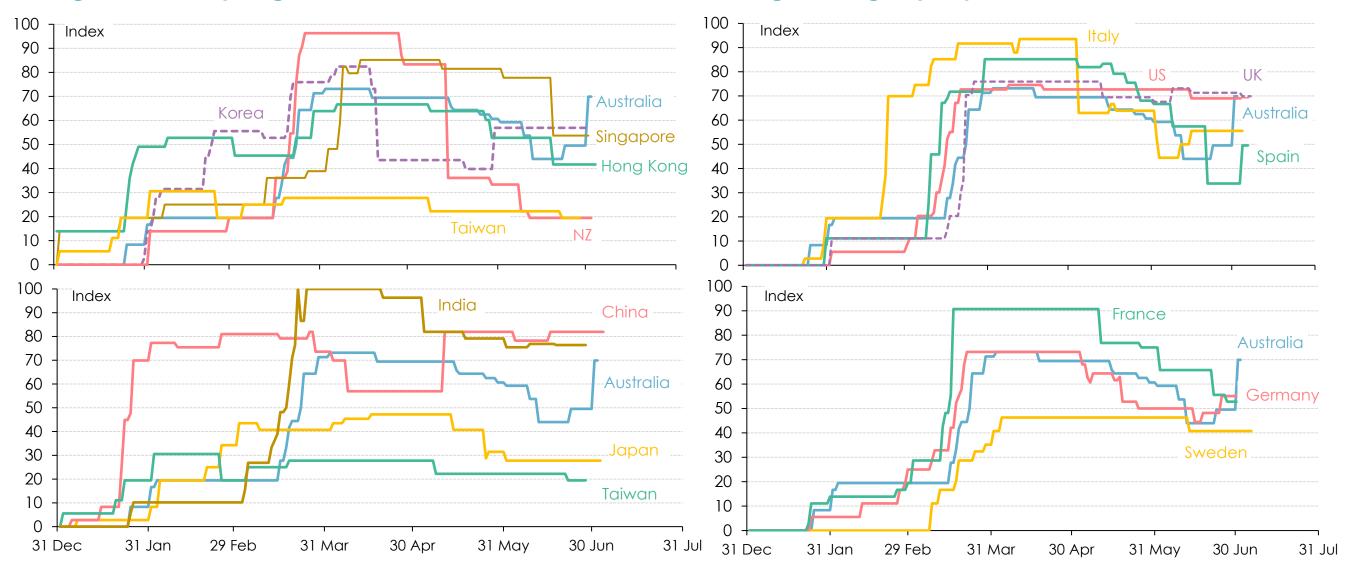


The Oxford COVID-19 Government Response Tracker collects publicly available information on 11 indicators of government response including school and workplace closures, public events cancellations, restrictions on public gatherings, stay at home requirements, public transport closures, domestic and international travel restrictions, public information campaigns, testing and contact tracing. Source: Blavatnik School of Government, Oxford University. Data up to 28<sup>th</sup> June – 6<sup>th</sup> July.



# Restrictions continue to be eased in most countries, though some countries (including Australia) have re-imposed restrictions in local 'hot spots'

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

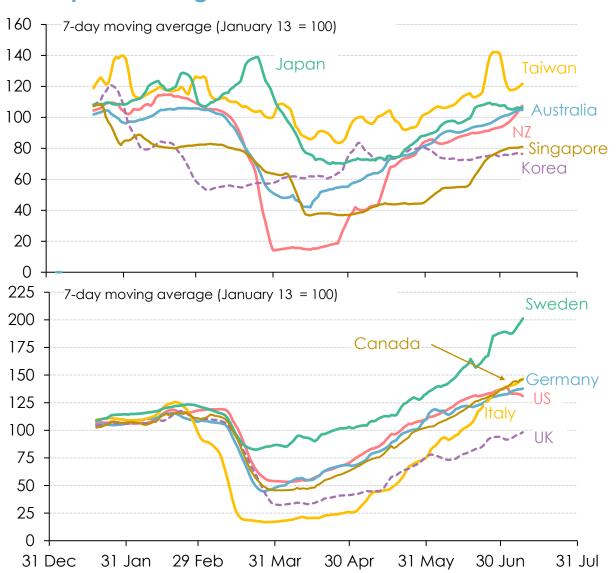


The Oxford COVID-19 Government Response Tracker collects publicly available information on 11 indicators of government response including school and workplace closures, public events cancellations, restrictions on public gatherings, stay at home requirements, public transport closures, domestic and international travel restrictions, public information campaigns, testing and contact tracing. The increase in the index for Australia since 1 July reflects the lockdown imposed on 36 Melbourne suburbs in response to outbreaks there. Source: Blavatnik School of Government, Oxford University. Data up to 28th June – 6th July.

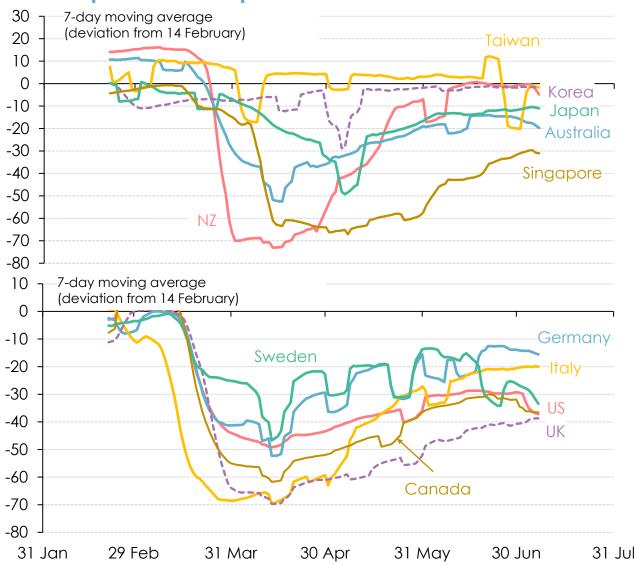


## Mobility data suggest that much of Asia is continuing to return toward more normal levels of activity, but people in the US are becoming more cautious

#### Time spent driving



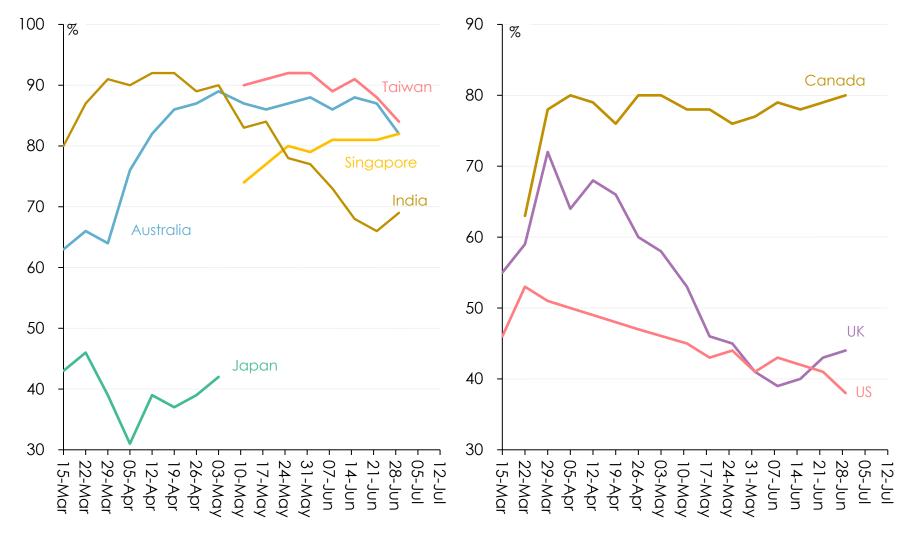
#### Time spent in work places

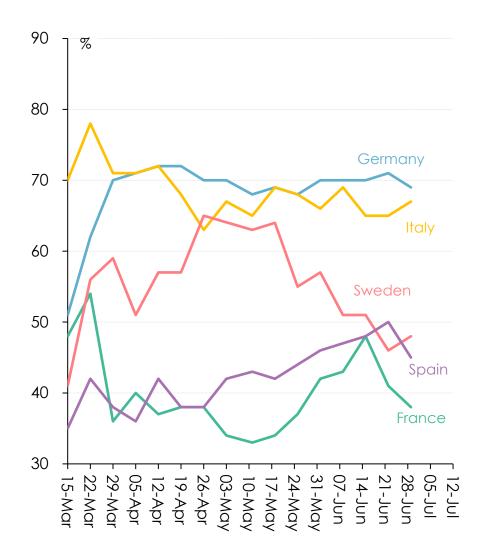




### Satisfaction with governments' handling of the pandemic has declined in the US, Sweden, France and (from a higher base) Australia in recent weeks

Percentage of opinion poll respondents who think their government has handled the coronavirus outbreak 'well' or 'very well'





Source: YouGov. Latest data are for 29-30<sup>th</sup> June.



### The world

# The IMF lowered its forecasts for world growth to -4.9% in 2020 (from -3% in April) and 4.5% in 2021 (from 4.9%)

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

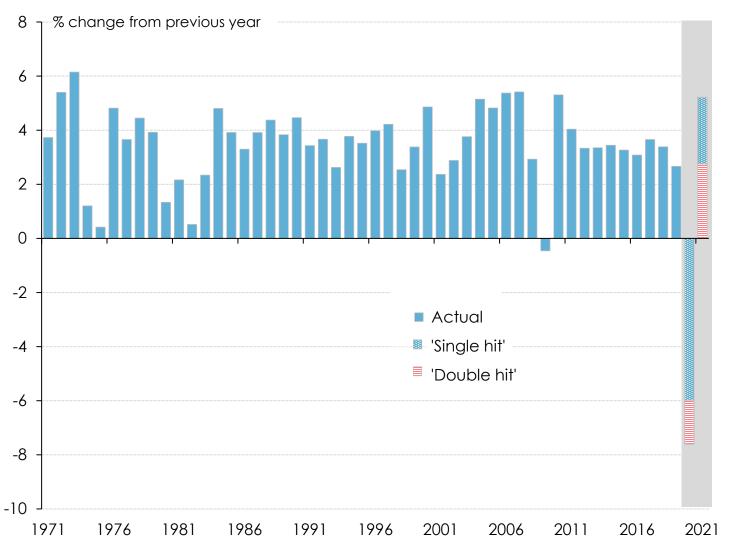
	Actual	IMF		World Bank		OECD*	
	2019	2020	2021	2020	2021	2020	2021
US	2.3	-8.0	4.5	-6.1	4.0	-7.3	4.1
China	6.1	1.0	8.2	1.0	6.9	-2.6	6.8
Euro area	1.2	-8.0	4.5	-9.1	4.5	-9.1	6.5
India	4.2	-4.5	6.0	-3.2	3.1	-3.7	7.9
Japan	0.7	-5.8	2.4	-6.1	2.5	-6.0	2.1
UK	1.4	-10.2	6.3	na	na	-11.5	9.0
Australia	1.8	-4.5	4.0	na	na	-5.0	4.1
New Zealand	2.2	-7.2 <sup>†</sup>	<b>5.9</b> <sup>†</sup>	na	na	-8.9	6.6
World	2.9	-4.9	5.4	-5.2	4.2	-6.0	5.2
World trade	0.9	-11.9	8.0	-13.4	5.3	-9.5	6.0



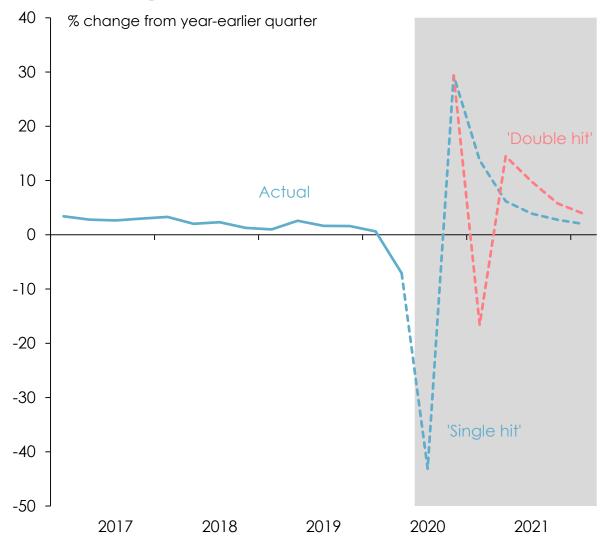
<sup>\*</sup> OECD forecasts are their 'single hit' scenario to be consistent with the assumptions of the other institutions. † The IMF did not publish revised forecasts for New Zealand in its latest WEO publication. Source: International Monetary Fund (IMF), World Economic Outlook, 24<sup>th</sup> June 2020; The World Bank, Global Economic Prospects, 8<sup>th</sup> June 2020; Organization for Economic Co-operation & Development (OECD), Economic Outlook, Volume 2020 Issue 1, 10<sup>th</sup> June 2020.

### The OECD forecasts a 6% decline in world GDP this year, followed by a 5.2% rebound in 2021 – or -7.2% followed by +2.8% if there's a 'second wave'

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



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

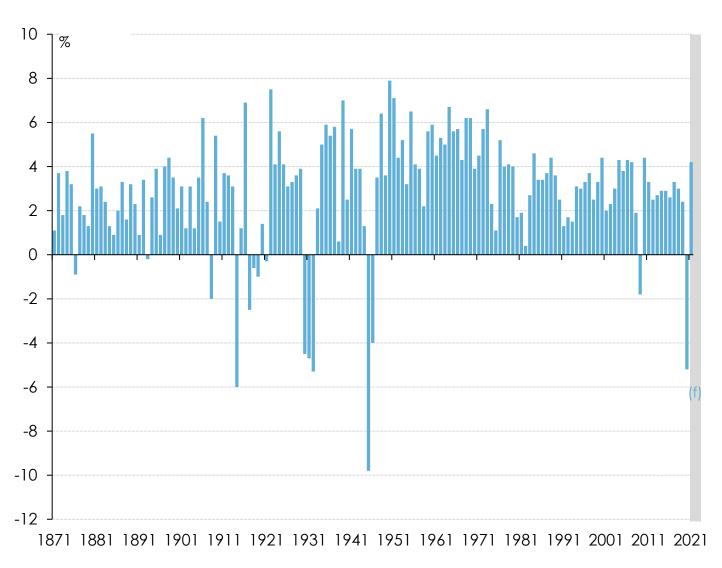


Note: The 'double hit' scenario assumes a 'second wave' of Covid-19 infections and deaths "in all economies towards the end of this year", while the 'single hit' scenario assumes this 'second wave is avoided'. The OECD regards each scenario as "equally likely". Source: OECD, Economic Outlook, No. 107, Volume 2020 Issue 1, 10<sup>th</sup> June 2020.

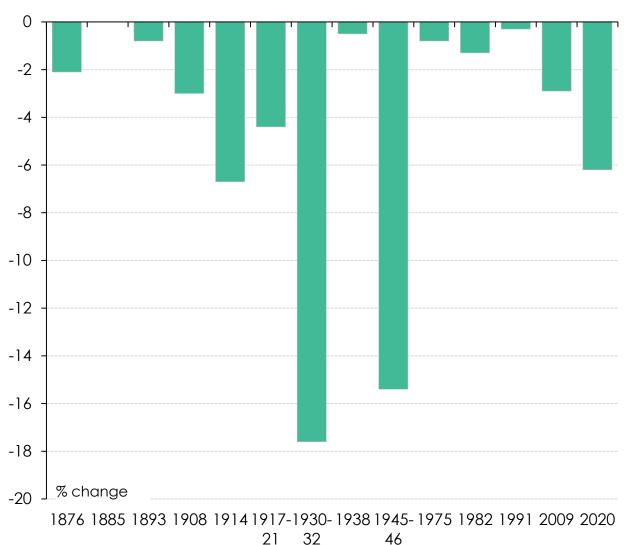


# The World Bank forecasts a 5.2% decline in world GDP this year, with a 4.2% increase in 2021- the 4<sup>th</sup> worst global downturn in 150 years

#### 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.

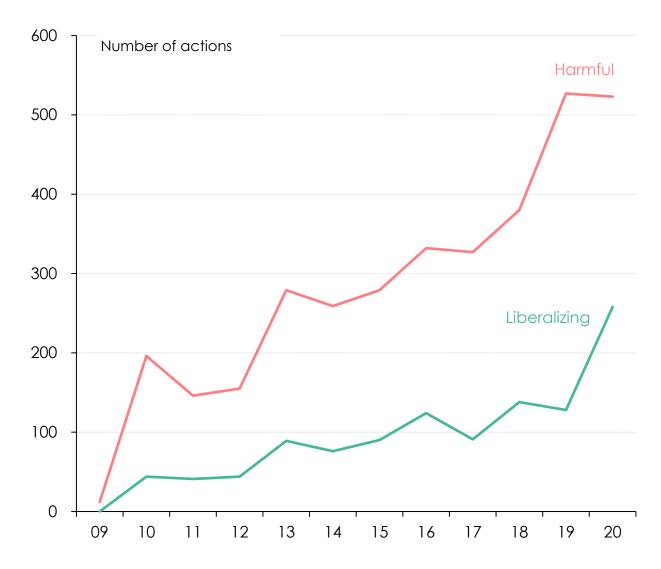


### World merchandise trade volumes fell sharply in April

#### World trade volumes and container throughput

#### 2015 = 1002010 = 100 130.0 120 125.0 110 120.0 115.0 100 110.0 90 105.0 World trade volume 100.0 fell 12% in April, the largest monthly 80 decline on record 95.0 90.0 70 85.0 0.08 12 13 14 15 16 17 - RWI-ISL container throughput index (left scale) — CPB World trade volume index (right scale)

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



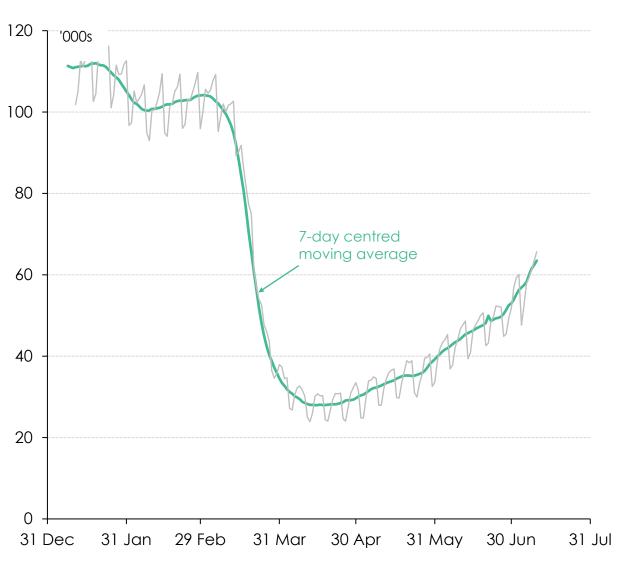
Note: The shipping container throughput index is based on reports from 91 ports around the world handling over 60% of global container shipping.

Sources: CPB Netherlands Economic Planning Bureau, World Trade Monitor; Institute of Shipping Economics & Logistics (ISL) and RWI Leibniz-Institut für Wirtschaftsforschung (RWI) Container Throughput Index; Global Trade Alert Global Dynamics (latest report 6<sup>th</sup> July).

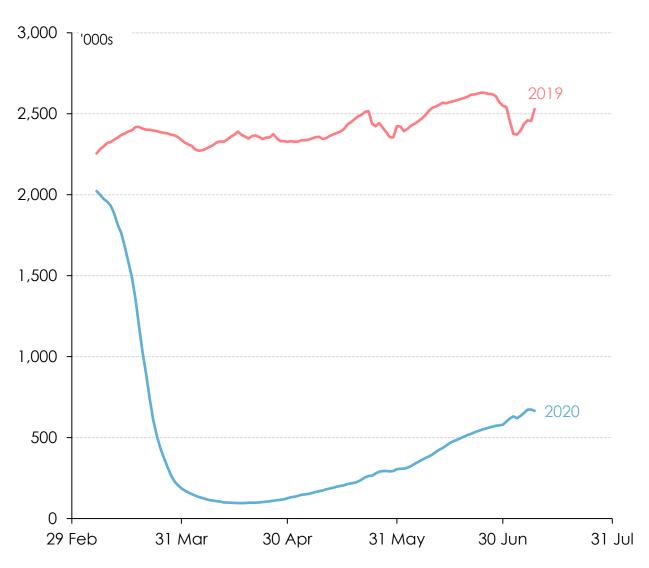


# Global flight numbers are steadily improving (though still ~40% below pre-pandemic levels), but in the US traffic appears to have stalled

#### Daily commercial flights worldwide



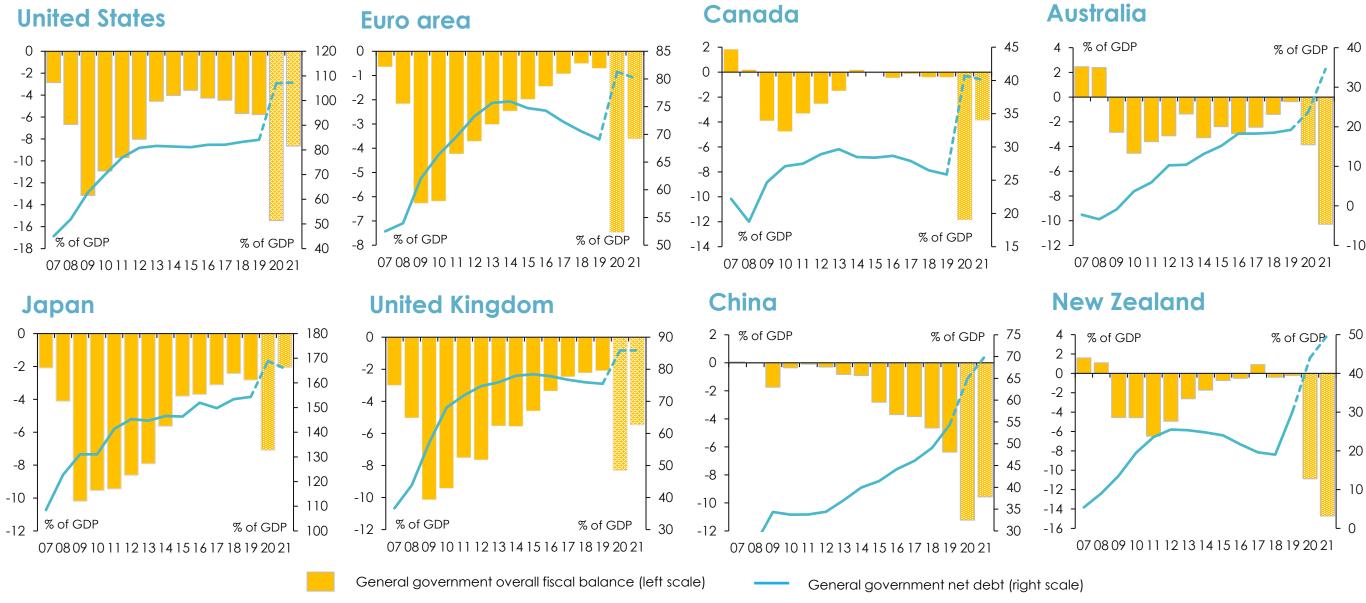
#### Daily US TSA security checks



Note: Commercial flights include commercial passenger flights, cargo flights, charter flights, and some business jet flights. Data up to 10<sup>th</sup> July. 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

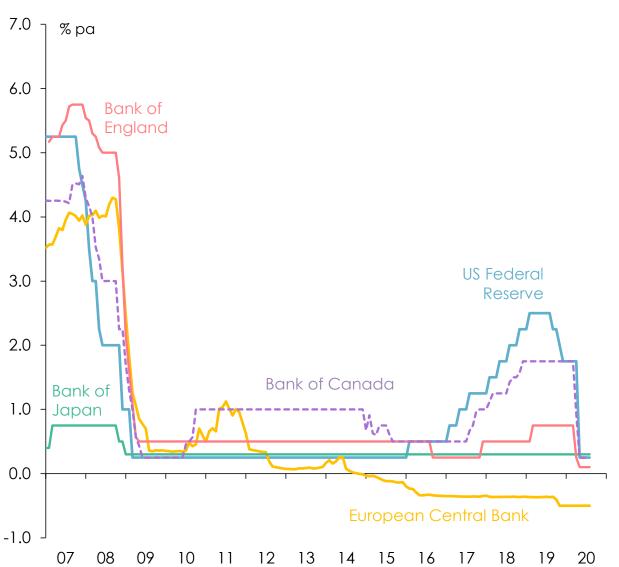


Note: UK data does not include the measures announced by the Chancellor on 8<sup>th</sup> July; China debt is gross debt, not net; Australian data are for the federal government only and are for fiscal years ended 30<sup>th</sup> June; NZ data are for fiscal years ended 31<sup>st</sup> March. Sources: International Monetary Fund, Fiscal Monitor, April 2020, and World Economic Outlook, June 2020; Australian Parliamentary Budget Office, Medium-term fiscal projections: impact of Covid-19 pandemic and response, June 2020; New Zealand Treasury, Budget Economic & Fiscal Update, May 2020.

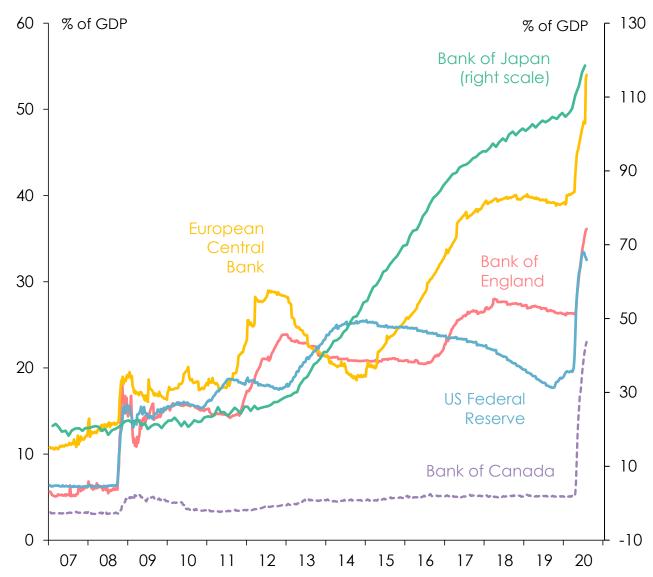


# Major central banks have cut interest rates to record lows, and done more 'quantitative easing' than during the global financial crisis

#### Major central bank policy interest rates



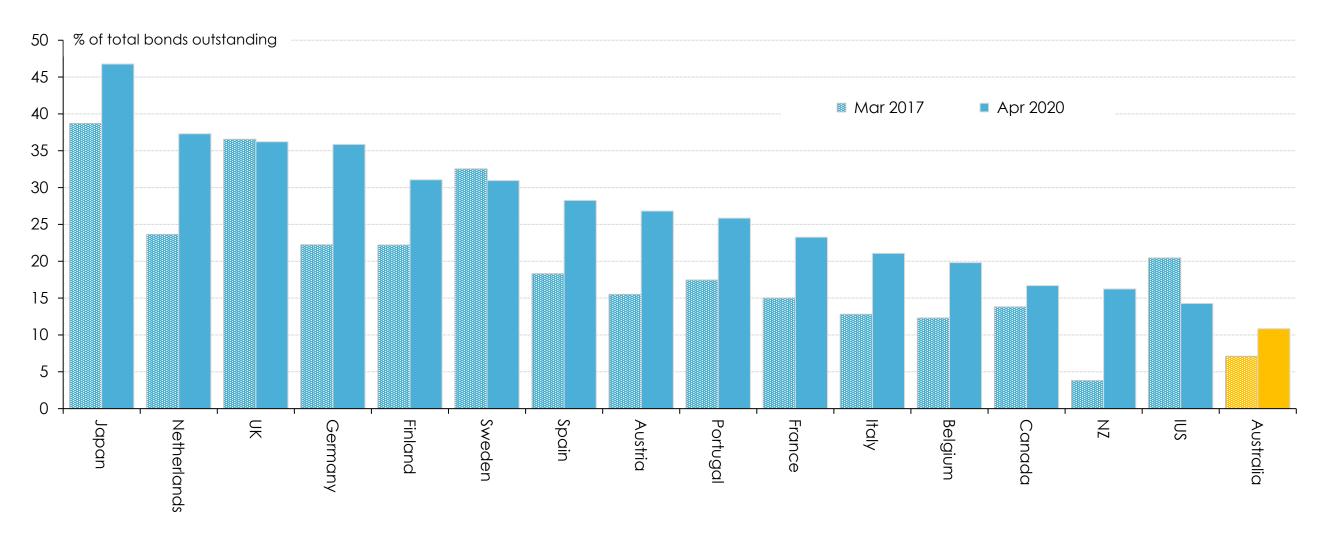
#### Major central bank balance sheets





### 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 Shanghai stock market's 7-week surge came to a halt on Friday; most other markets were little changed over the past week

#### 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





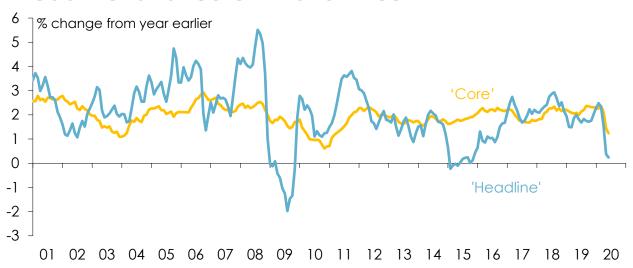




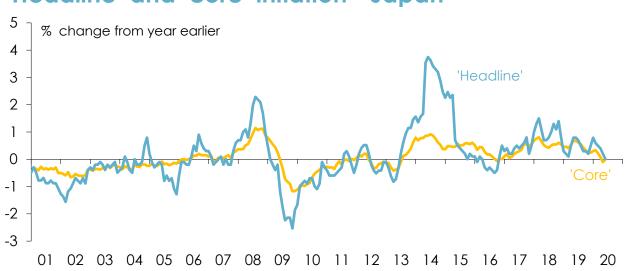


## ...but so far at least, inflation has been falling rather than rising, even discounting the impact of lower oil prices

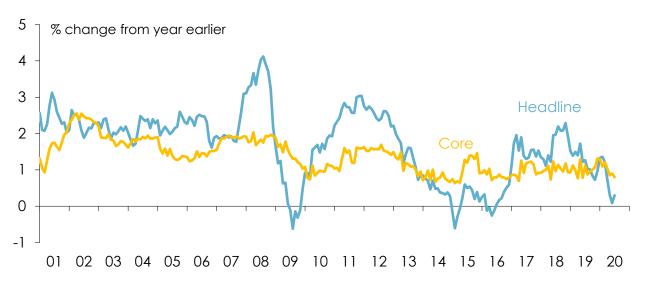
#### 'Headline' and 'core' inflation - US



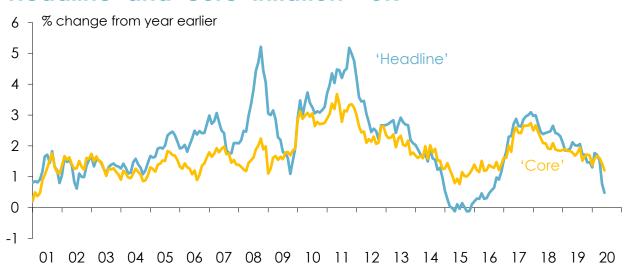
#### 'Headline' and 'core' inflation - Japan



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

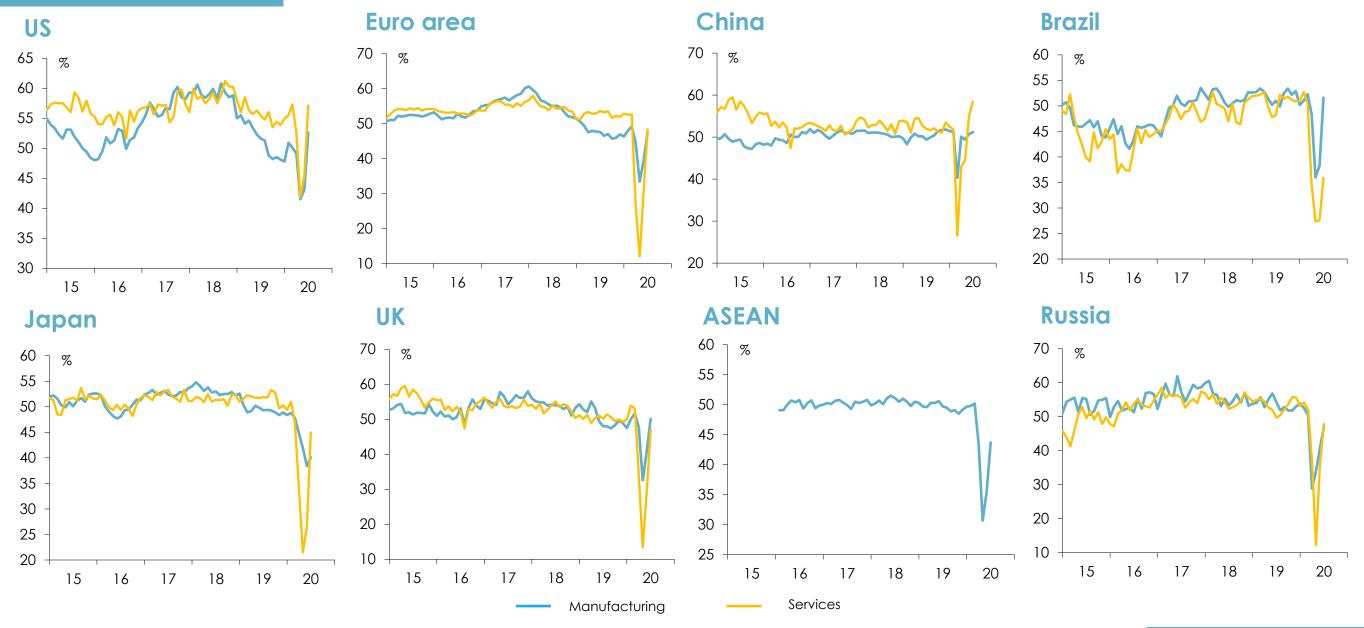


#### 'Headline' and 'core' inflation – UK





## Purchasing managers' indices (PMIs) point to an ongoing rebound in both manufacturing and services in major economies since May



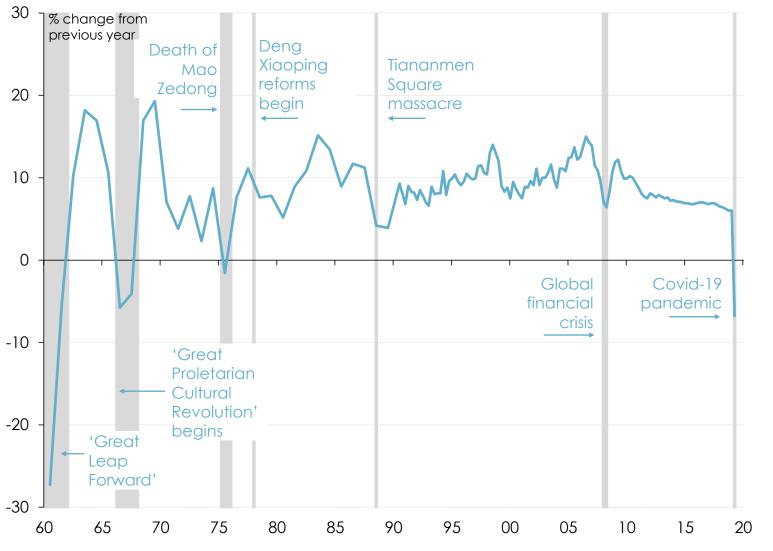
Note: Purchasing Managers' Indexes (PMIs) are derived from surveys of senior executives, who are asked to report whether various dimensions of business activity recorded an increase, decrease or no change compared with the previous month. A reading of 50 indicates an overall increase cf. the previous month, and a reading of less than 50 indicates a decrease. Latest data are for June. See also PMIs for other Asia-Pacific economies on slide 35.

Sources: US Institute of Supply Management; INH Markit; Caixin; Refinitiv Datastream.

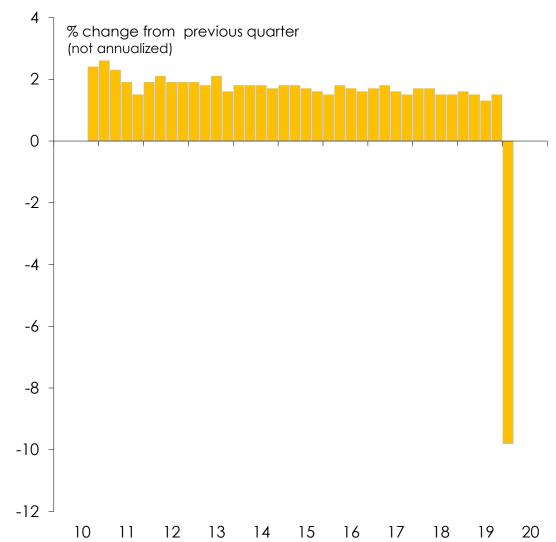


## China experienced its sharpest economic downturn in the first quarter of this year since the beginning of the 'Cultural Revolution'

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



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



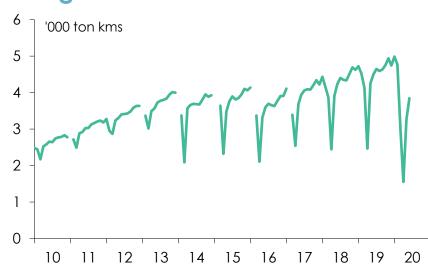


### The production side of the Chinese economy rebounded strongly in the June quarter

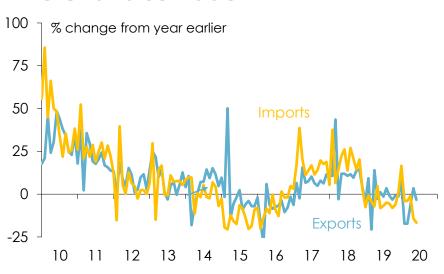
#### Industrial production



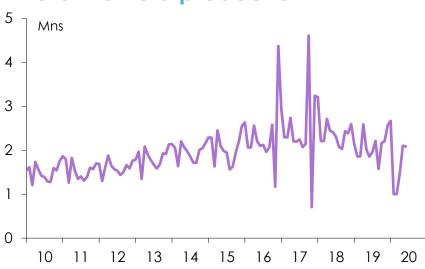
#### Freight traffic volumes



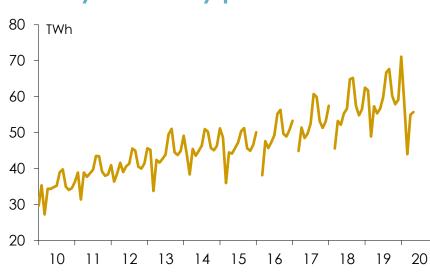
Merchandise trade



#### Motor vehicle production



#### Primary electricity production



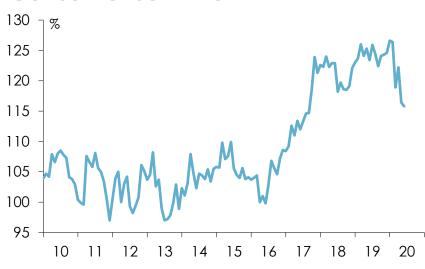
Merchandise trade balance



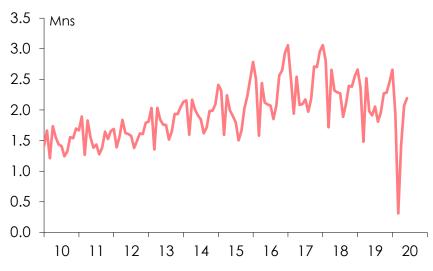


# However the 'demand' side of the Chinese economy – both household and business – is recovering rather more gradually

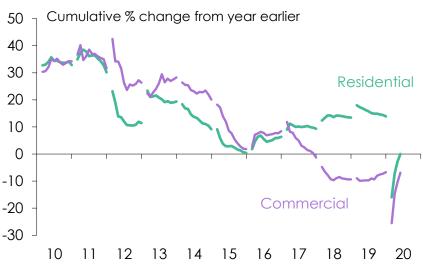
#### **Consumer sentiment**



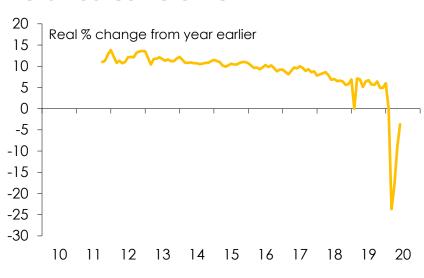
Motor vehicle sales



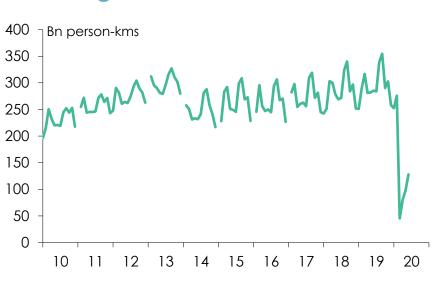
Real estate investment



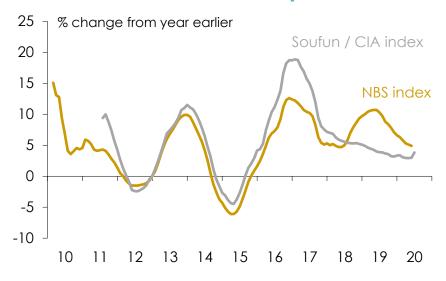
Retail sales volume



Passenger traffic volumes



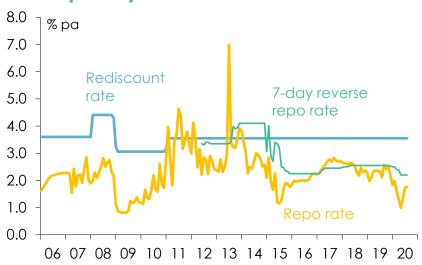
Residential real estate prices





### 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

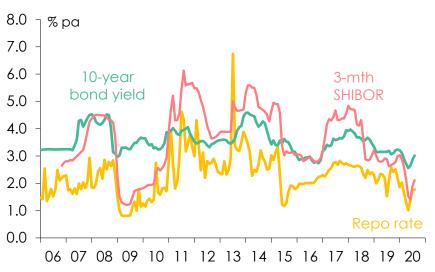
#### PBoC policy interest rates



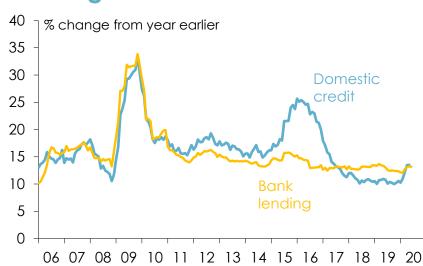
#### Bank reserve requirement ratios



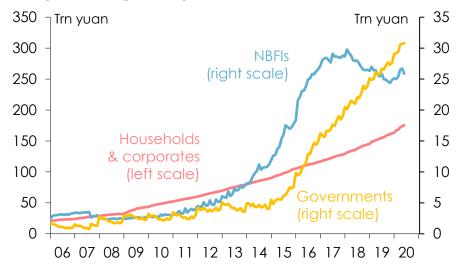
#### Market interest rates



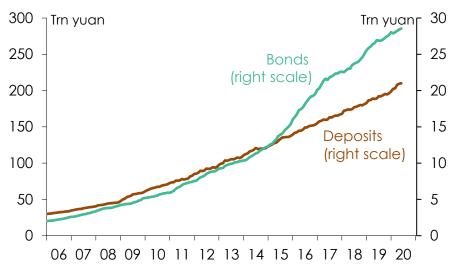
#### Credit growth



#### **Depository corporation assets**



#### **Depository corporation liabilities**

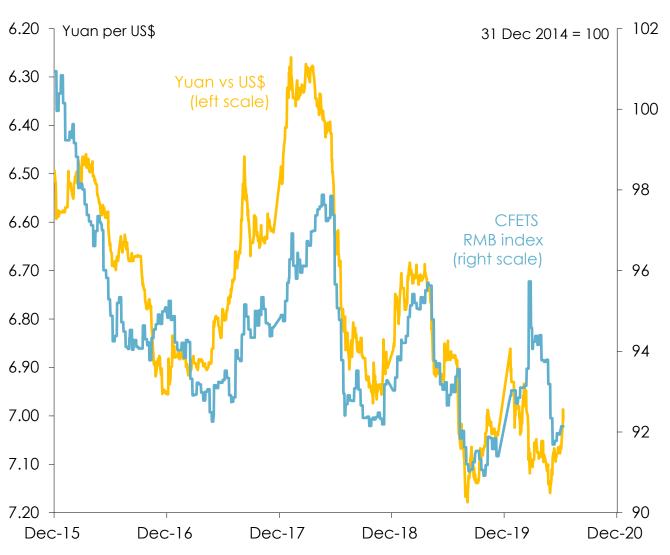




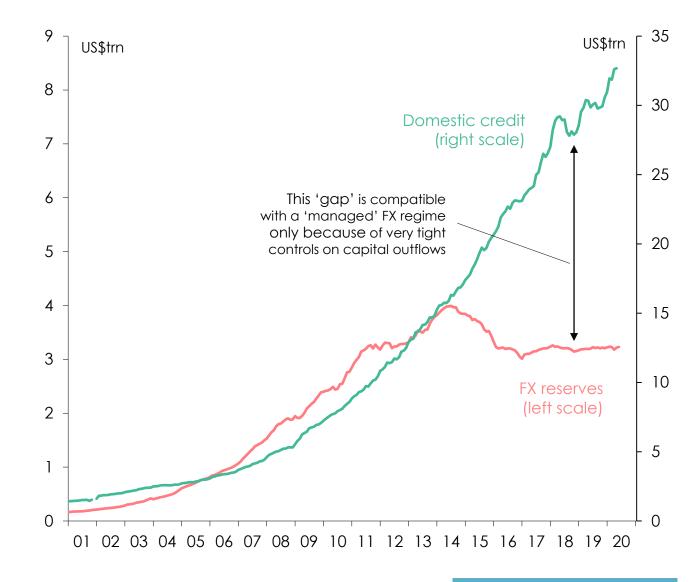
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# The yuan has risen by 2% against the US\$ since the end of May, mainly reflecting US\$ weakness – but the FX regime depends on capital controls

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



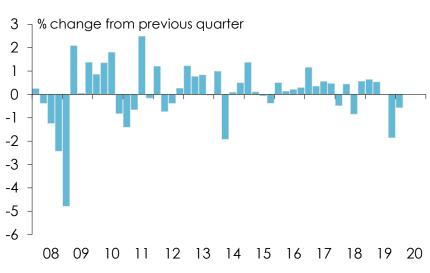
#### FX reserves and domestic credit



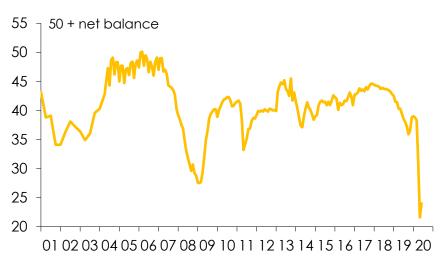


## Japan entered its fourth recession since 2000 after hiking its GST rate last October, and the pandemic has worsened it

#### **Real GDP**



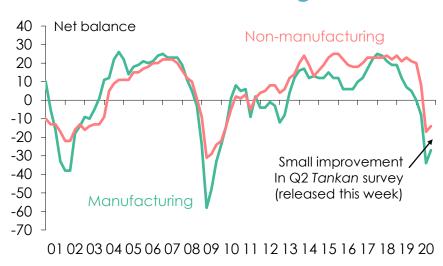
#### Consumer confidence



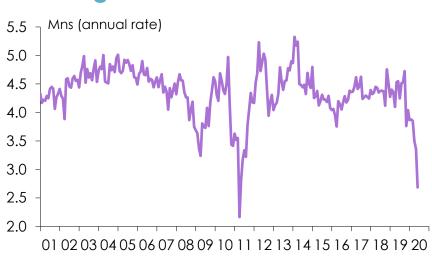
Unemployment



#### Business conditions – large firms



#### Passenger vehicle sales



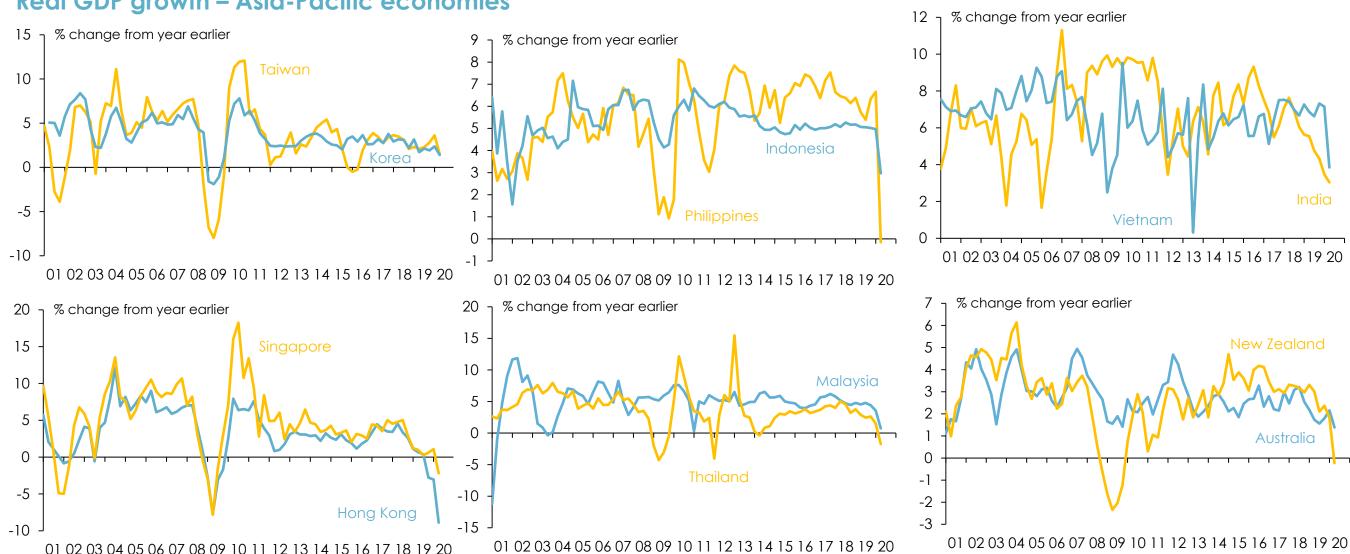
#### **Merchandise exports**





### Most other Asian economies experienced a slowdown during the first quarter of 2020, with worse to come in the second quarter

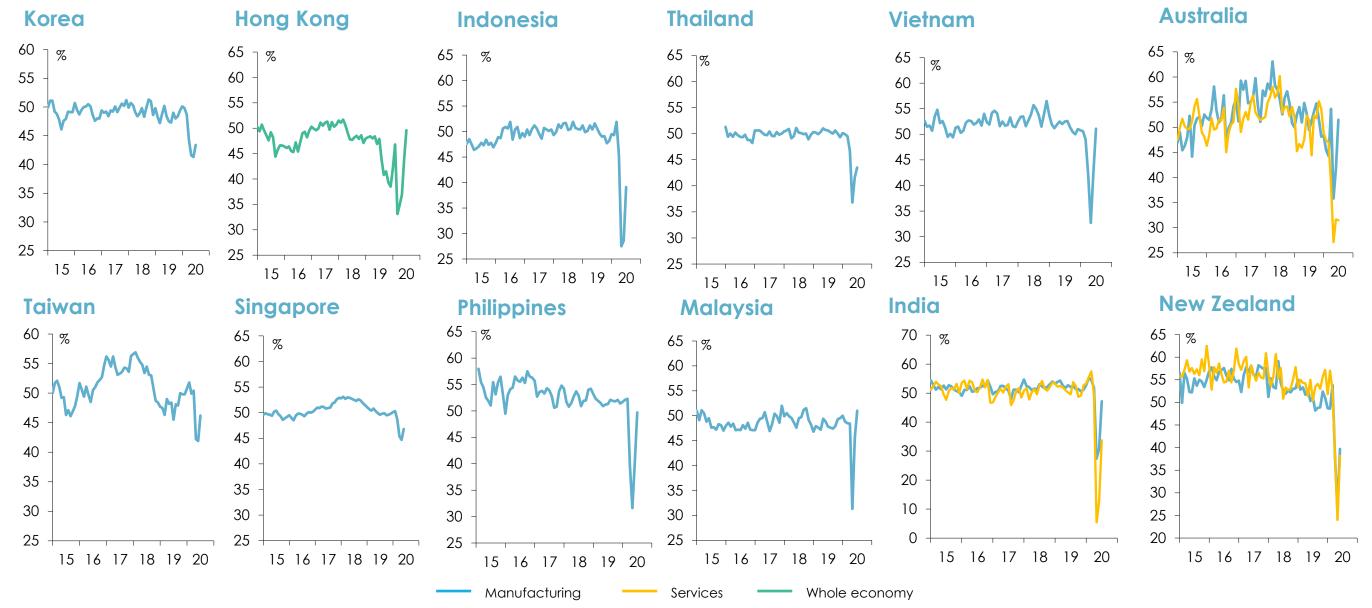
#### Real GDP growth – Asia-Pacific economies



Sources: Bank of Korea; Taiwan Directorate-General of Budget, Accounting & Statistics; Hong Kong Census & Statistics Department; Singapore Department of Statistics; 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; .



## Purchasing managers' indices suggest activity in Asia-Pacific economies started to recover in May and improved further in June



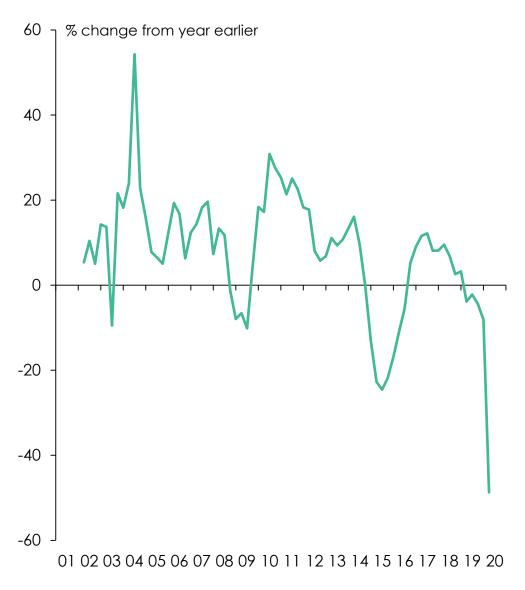
Note: Purchasing Managers' Indexes (PMIs) are derived from surveys of senior executives, who are asked to report whether various dimensions of business activity recorded an increase, decrease or no change compared with the previous month. A reading of 50 indicates an overall increase cf. the previous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

Sources: IHS Markit; Singapore Institute of Purchasing & Materials Management; Australian Industry Group; Business NZ; Refinitiv Datastream.

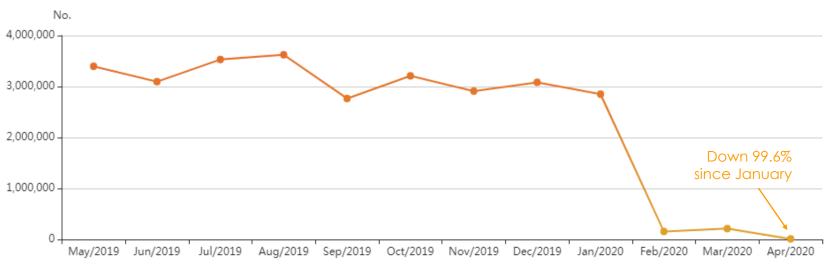
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### The world's worst recession is probably in Macau

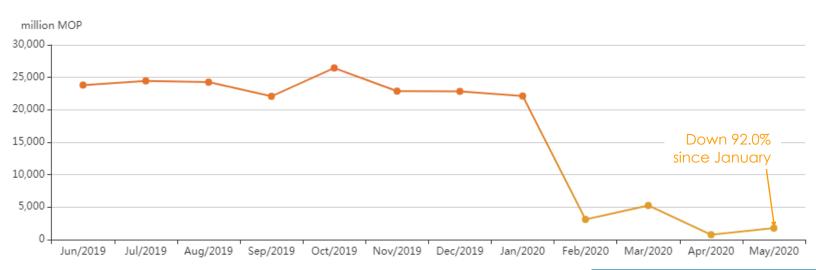
#### Macau - real GDP



#### **Visitor arrivals**



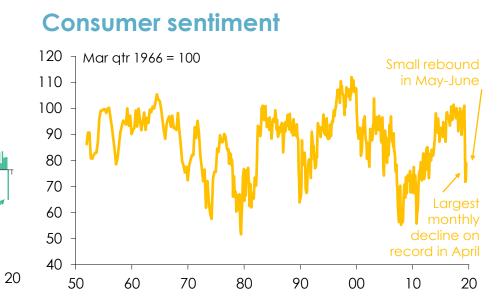
### **Gambling revenue**

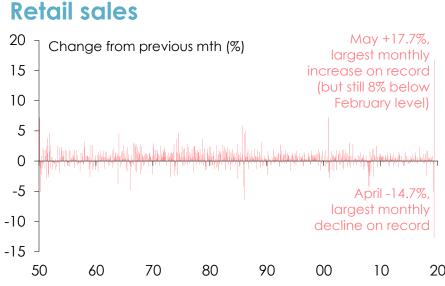




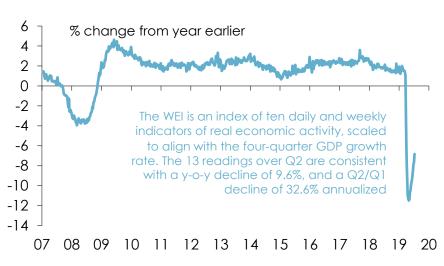
# The US economy has experienced its sharpest contraction since the 1930s, but there are increasing signs that a rebound began in May

### 

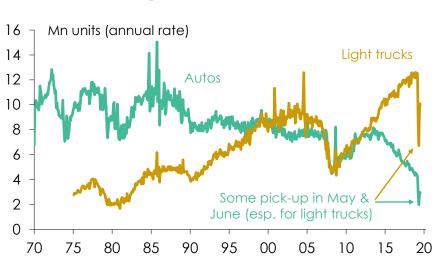




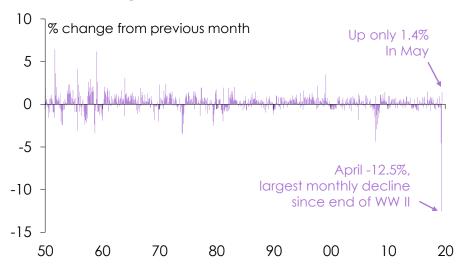
### NY Fed weekly economic index



### Auto and light truck sales



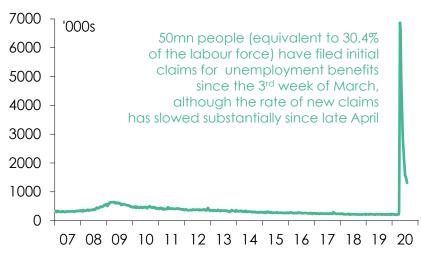
### Industrial production



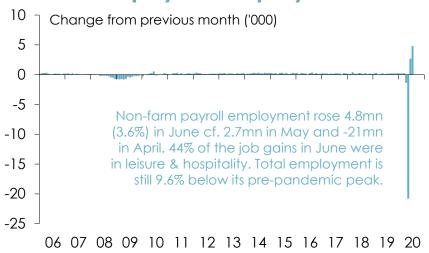


# The impact on the US labour market has been particularly severe – although employment rose, and unemployment fell, in May and June

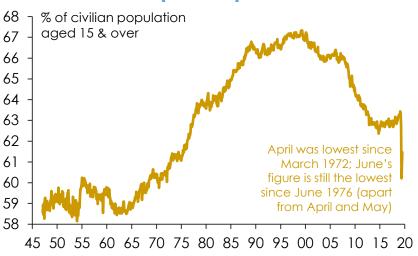
### **Unemployment benefit claims**



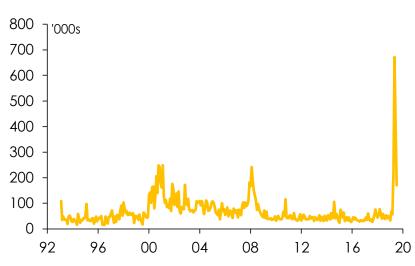
### Non-farm payroll employment



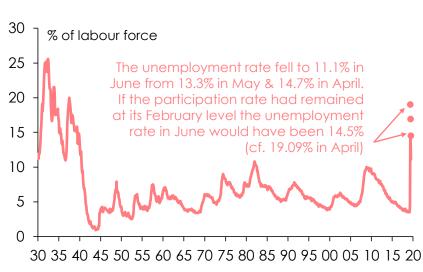
### Labour force participation rate



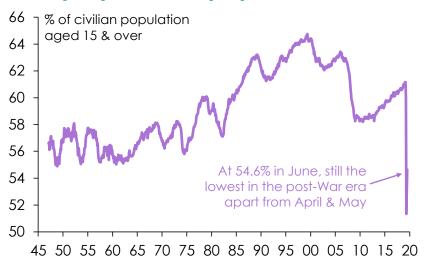
### **Layoff announcements**



### **Unemployment rate**



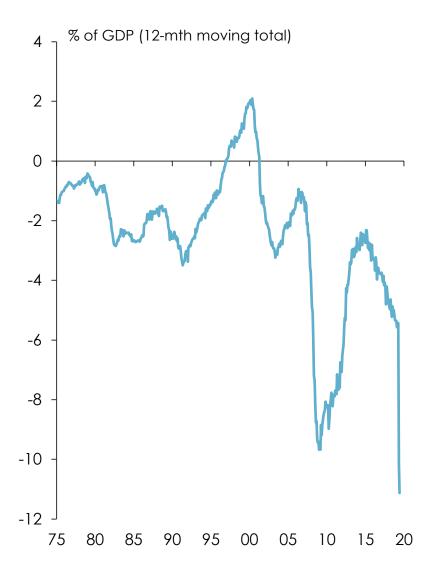
### **Employment to population ratio**



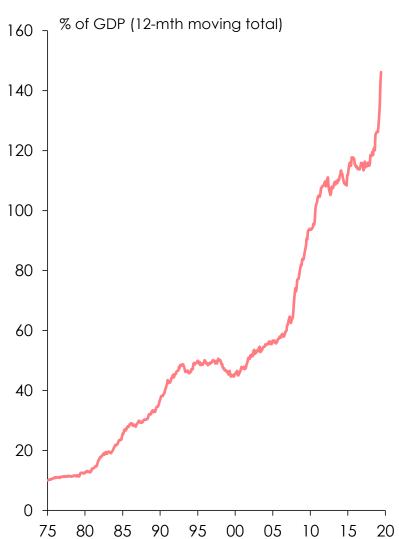


### The US budget deficit has blown out dramatically since the end of March, and now exceeds 11% of GDP

### **US Federal budget deficit**



### **US gross Federal debt**

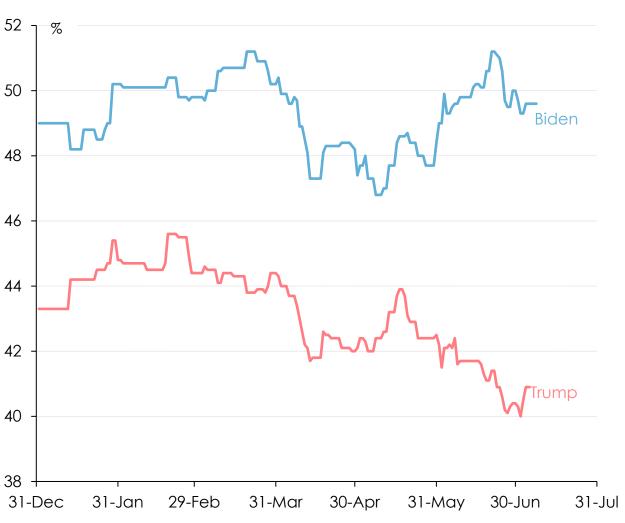


- ☐ The US federal budget deficit widened from US\$582bn (3.3% of GDP) in 2016 (Obama's last year in office) to US\$1 trn (5.4% of GDP) in 2019, while gross federal debt rose from US\$20.4 trn (115% of GDP) to \$24.1trn (126% of GDP)
- ☐ In March, the Congressional Budget Office forecast the deficit would remain above U\$1trn every year over the next decade, reaching U\$\$1.7 trn (5.6% of GDP) by 2030
- □ The budget deficit for the months of April and May combined amounted to US\$1.1trn (reflecting the impact of Covid-19 related measures), bringing the 12-month moving total to US\$2.1 trn (11.1% of GDP), cf. a peak of 9.7% of GDP during the GFC, and pushing Federal debt to US\$27.9 trn (146% of GDP) at end-May

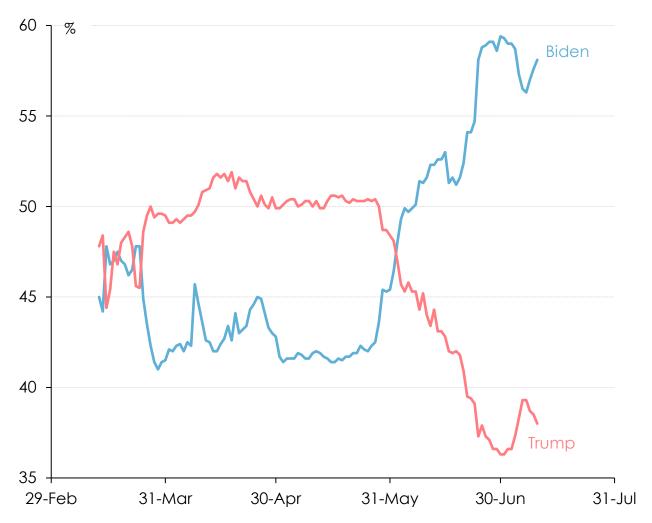


# Joe Biden's lead in opinion polls narrowed to just under 9 pc pts over the past week, but his lead in betting markets widened to over 18 pc pts

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



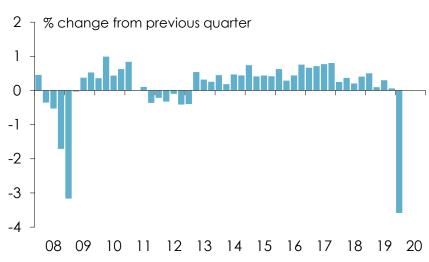
### Winner of November US Presidential election – betting odds



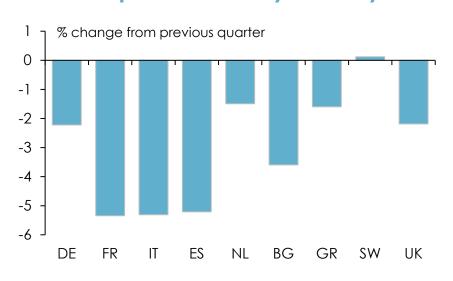


### Europe is also experiencing a sharp downturn although unemployment probably won't rise as much as it has in the US

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



### March quarter GDP by country

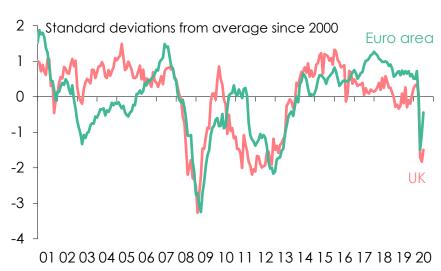


### **UK monthly GDP**

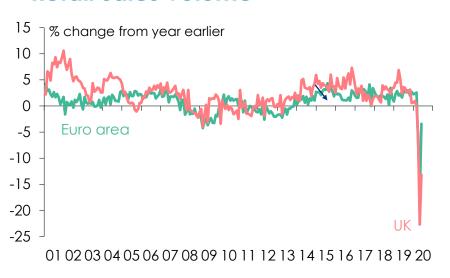


01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20

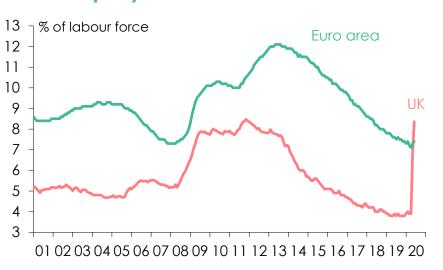
#### Consumer confidence



#### Retail sales volume



### **Unemployment**

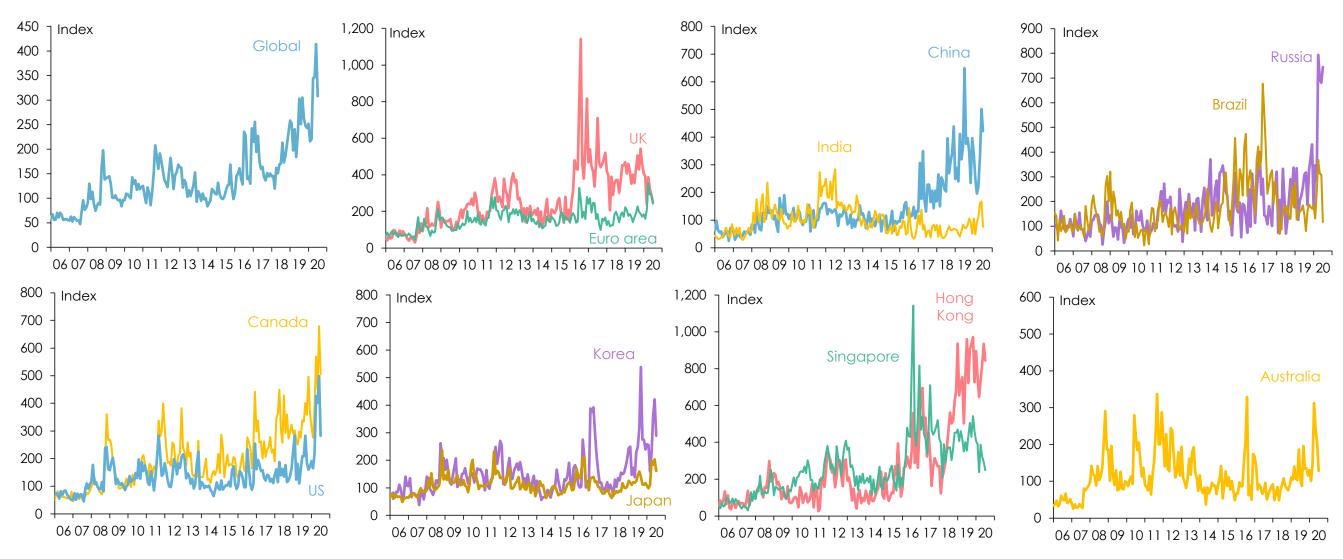


Sources: Eurostat; UK Office for National Statistics; Confederation of British Industry. The UK unemployment rate is published as a 3-month moving average; the most recent observation (for May) is derived by adding to the 'claimant count' unemployment rate the average margin between that rate and the conventionally defined unemployment rate over the preceding 12 months. Preliminary estimates of Q2 GDP for the UK and euro area will be released on 12<sup>th</sup> and 14<sup>th</sup> August respectively.



## Perhaps surprisingly, economic policy uncertainty eased almost everywhere in June – although it remains elevated by historical standards

### **Economic policy uncertainty indices**



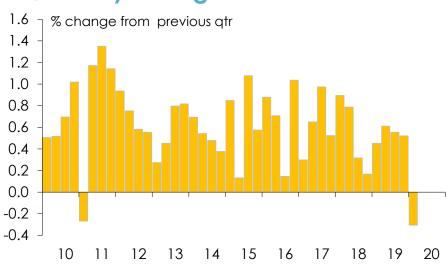
Note: The Economic Policy Uncertainty Index is derived from a count of newspaper articles containing the words "uncertain" or "uncertainty", "economy" or "economic", and policy-relevant terms pertaining to regulation, monetary or fiscal policy, central bank, taxation, tariffs, deficit, budget, etc. The 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: PolicyUncertainty.com; Scott Banker, Nick Bloom & Steven Davis, 'Measuring Economic Policy Uncertainty', Quarterly Journal of Economics, 131, no. 4 (November 2016), pp. 1593-1636.



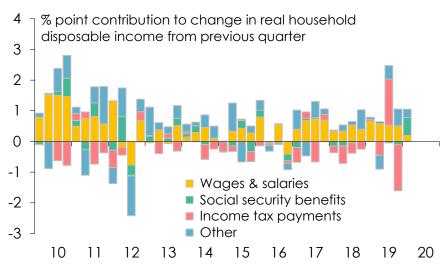
### Australia

# In Australia GDP declined in Q1 for the first time in 9 years, reflecting the impact of bushfires and 'social distancing' restrictions on private demand

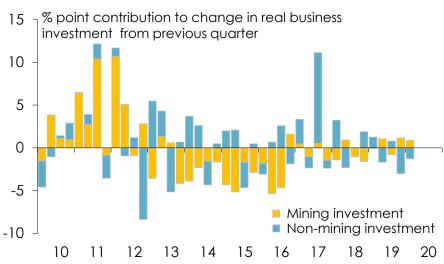
### Quarterly change in real GDP



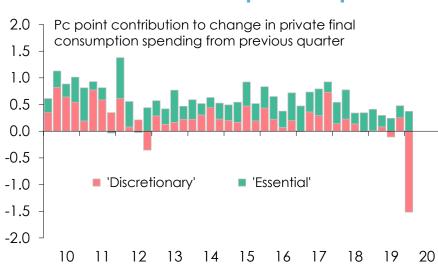
### Household disposable income



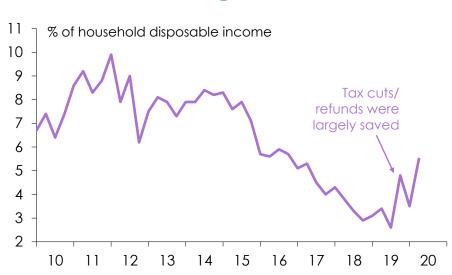
### **Business investment expenditure**



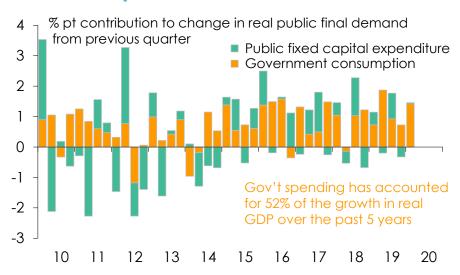
### Household consumption expenditure



### Household saving rate



### **Public expenditure**

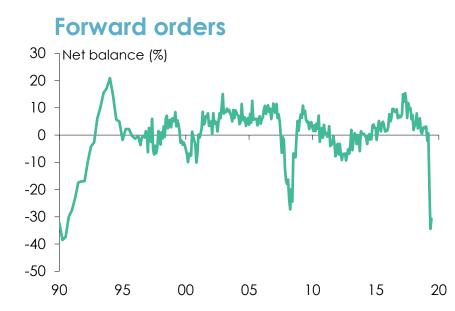


Note: 'Essential' household consumption expenditure comprises food; rent & other dwelling services; electricity, gas & other fuel; operation of vehicles; rail, bus & taxi services; communications; health; education; and insurance & other financial services. Components of household disposable income are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

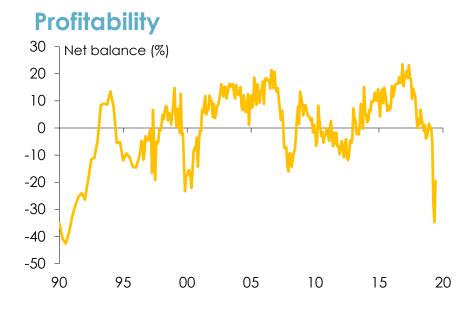


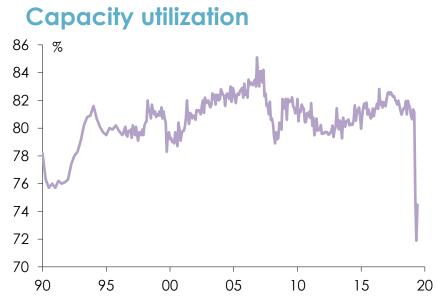
## Trading conditions & profitability have improved since March but forward orders remain very weak, while hiring and capex intentions remain low

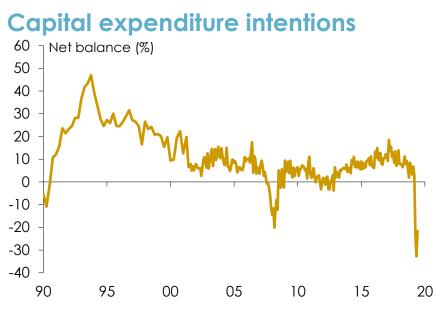
# Trading conditions 40 Net balance (%) 30 - 20 - 10 - - 20 - - 30 - - 40 90 95 00 05 10 15 20





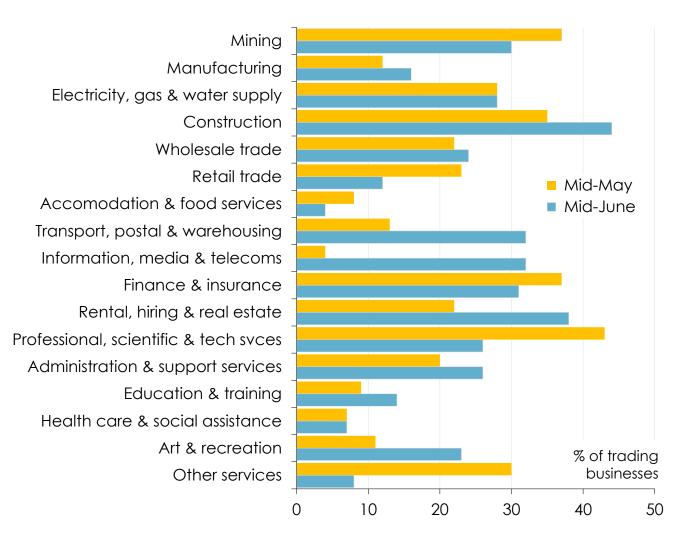




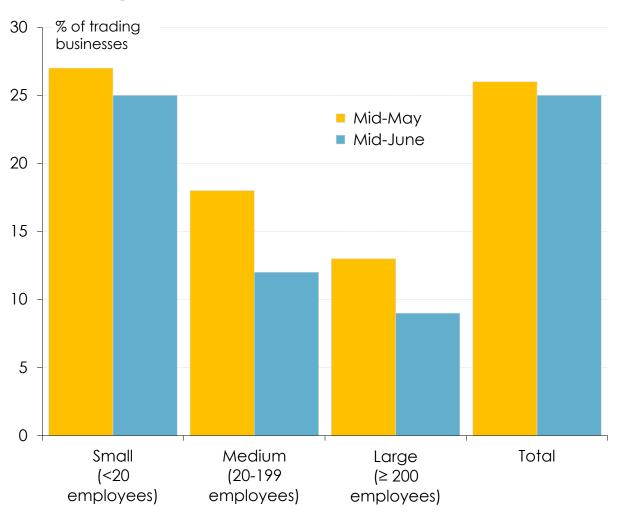


### Three-quarters of businesses are still operating under 'modified conditions' – with fewer large business operating as 'normal' than small ones

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



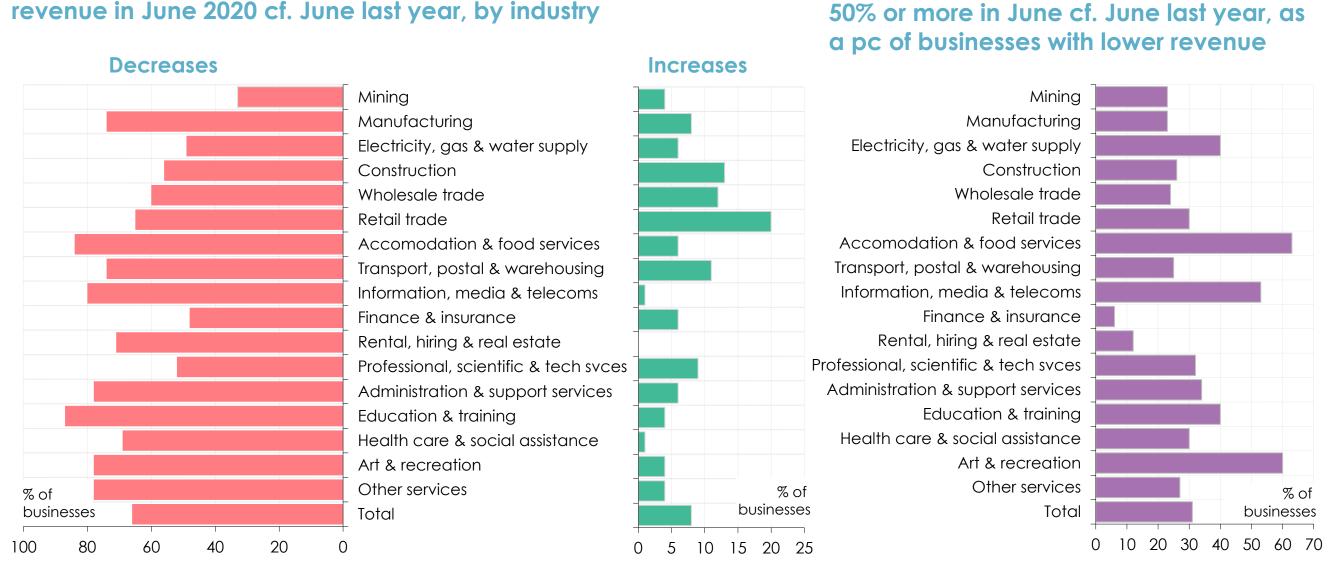
### Proportion of 'trading businesses' which are operating 'as normal' – by size





# Two-thirds of all businesses reported lower revenue in June compared with June last year – and 30% of them reported declines of more than 50%

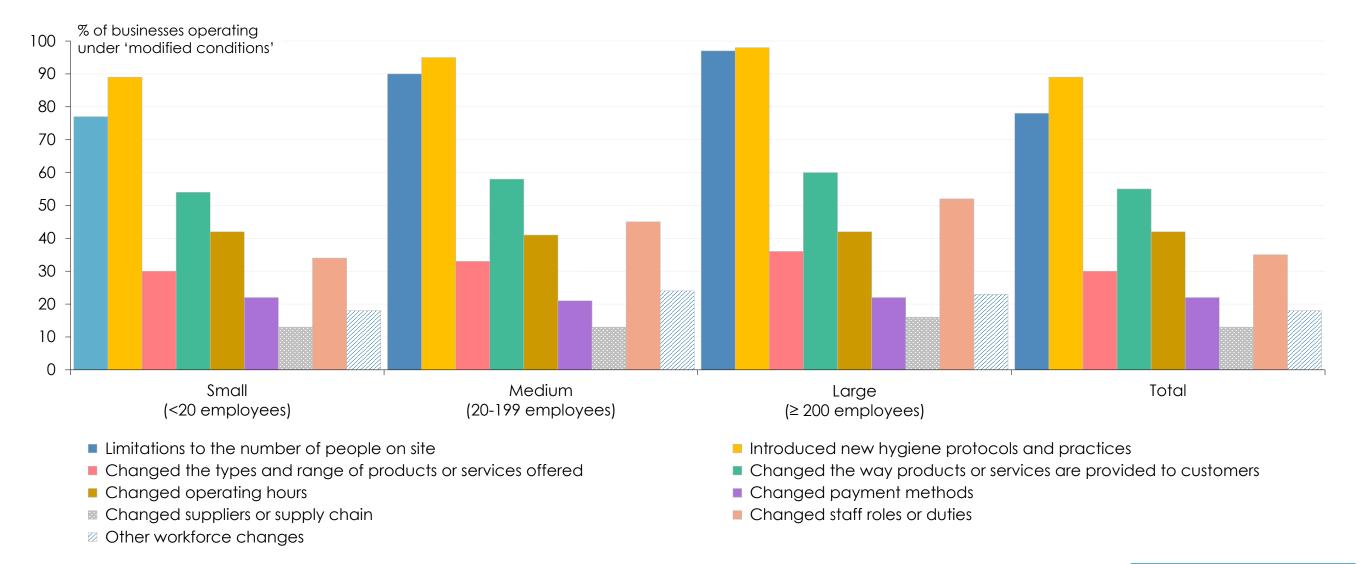
Proportion of businesses reporting decreases or increases in revenue in June 2020 cf. June last year, by industry



Businesses with revenue decreases of

### The biggest changes made by businesses have been limits on the no. of people on site, hygiene protocols, product delivery methods and staff roles

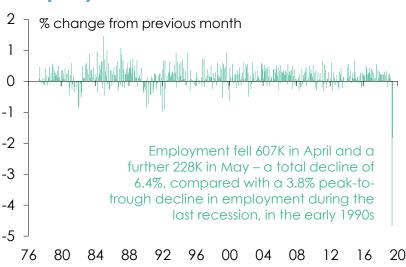
#### Changes made to business operations, by size of business





# 835,000 jobs have been lost since March, although 75% of job-losers have left the labour force, limiting the rise in (measured) unemployment

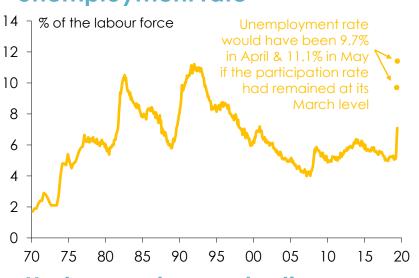
### **Employment**



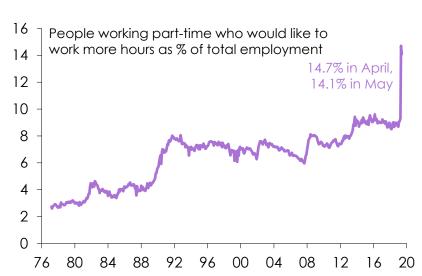
### Labour force participation rate



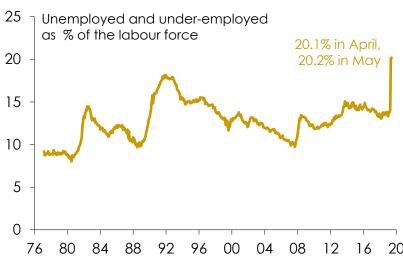
### **Unemployment rate**



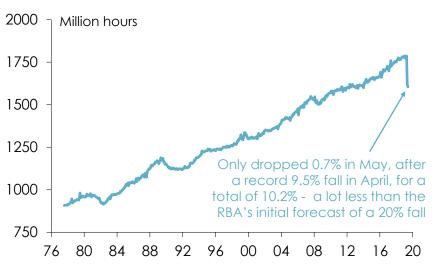
### **Under-employment ratio**



#### 'Under-utilization' rate



#### **Total hours worked**

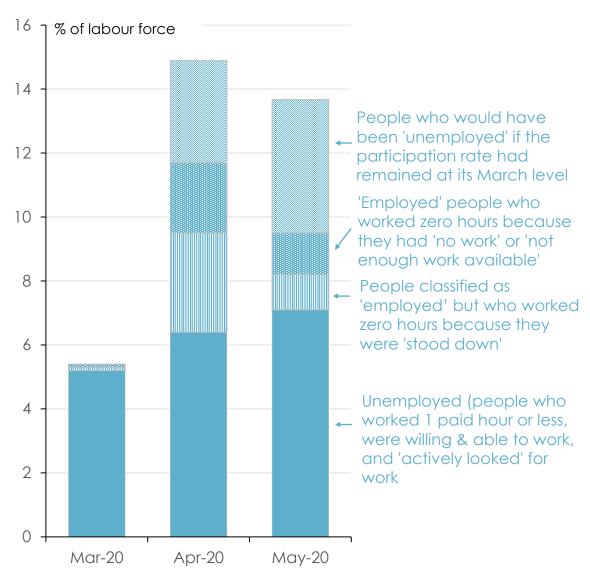


Note: The ABS classifies people on JobKeeper who worked zero hours in the survey week as 'employed'. Had it not done so, the unemployment rate in May would have been 9.5% (down from 11.7% in April). The 'under-employment ratio' is the percentage of employed persons who are working fewer hours than they are willing and able to work. The 'under-utilization rate' is the proportion of the labour force who are unemployed or underemployed. Source: ABS. June data will be released on 16<sup>th</sup> July.



### How the Government's JobKeeper program has helped to reduce measured unemployment

### Alternative measures of unemployment

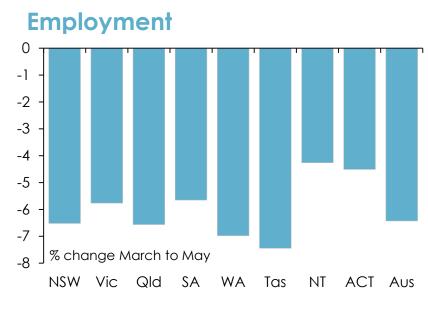


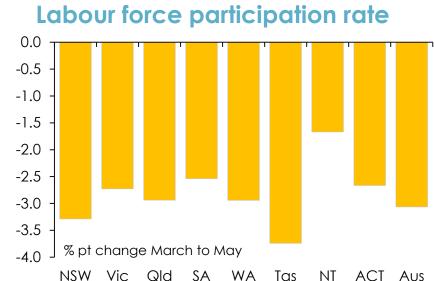
- ☐ The Government's JobKeeper program pays eligible employers a subsidy of \$1500 per fortnight for each eligible employee kept on the payroll between 30 March and 27 September
- Eligible employers are those with
  - annual turnover of <\$1bn whose turnover has fallen by >30%
  - annual turnover of >\$1bn (other than major banks) whose turnover has fallen by >\$1bn
  - Registered charities whose turnover has fallen by >15%
- ☐ Eligible employees are Australian citizens who are (or were at 1 March) permanent full- or part-time employees, or casuals who had at least 12 months 'regular employment'
- ☐ For labour force survey purposes the ABS classifies people being paid through JobKeeper as 'employed' even if they have been stood down, or worked no hours during the survey week
  - in the US and Canada, such people are classified as unemployed
- □ The Government now estimates about 3½mn employees are receiving subsidized wages through JobKeeper (down from 6mn initially forecast)

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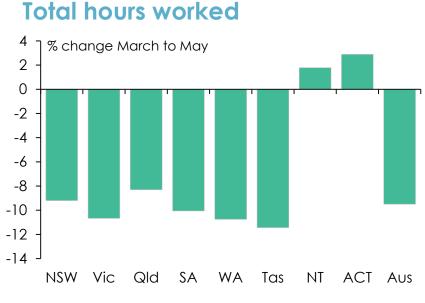
Source: ABS; Corinna.

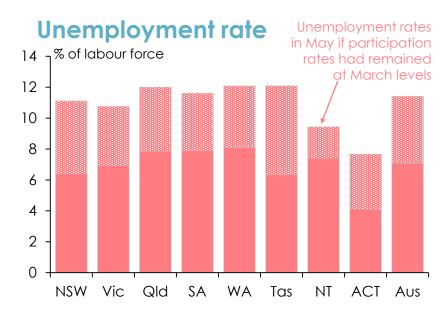
## Tasmania and Western Australia have experienced the greatest loss of jobs and decline in hours worked since March

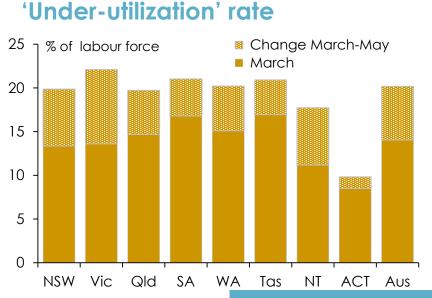










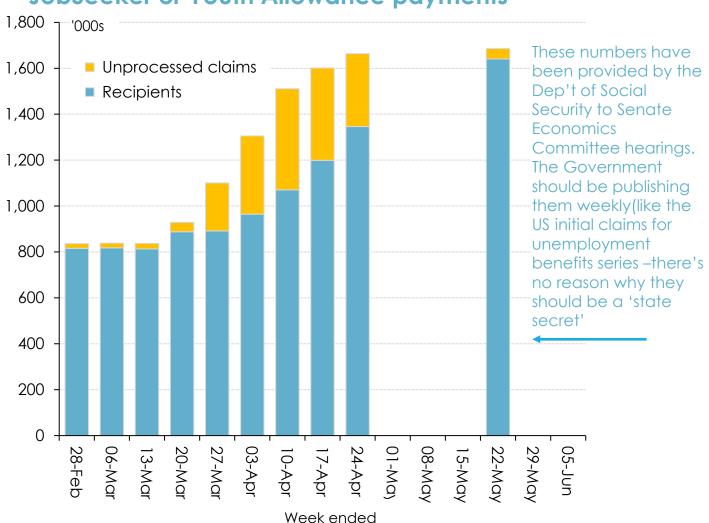


Note: The 'under-employment ratio' is the percentage of employed persons who are working fewer hours than they are willing and able to work. The 'under-utilization rate' is the proportion of the labour force who are unemployed or underemployed. Source: ABS (June data will be released this Thursday, 16<sup>th</sup> July).

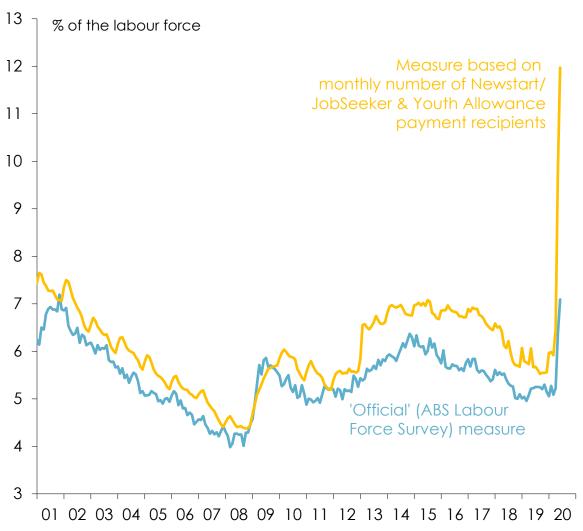


### The measured unemployment rate is understating the 'true' extent of job losses

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



### Alternative measures of the 'unemployment rate'



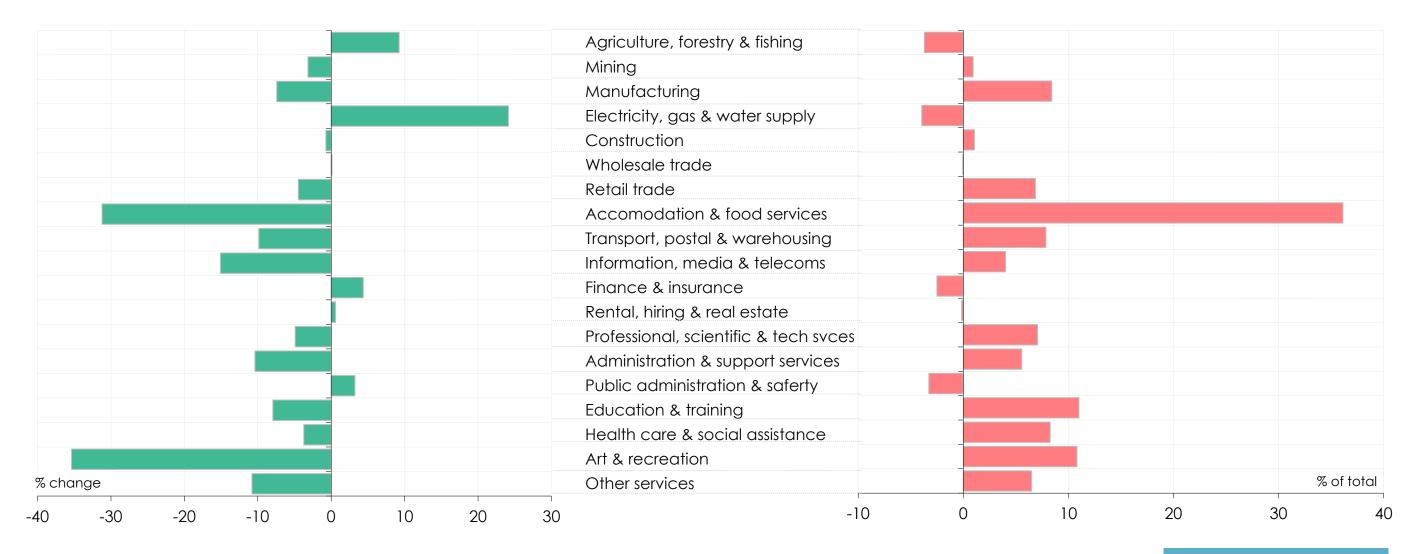




### 58% of total job losses between February & May were in accommodation & food services, education & training, and arts & recreation

Change in employment between February and March 2020, by industry

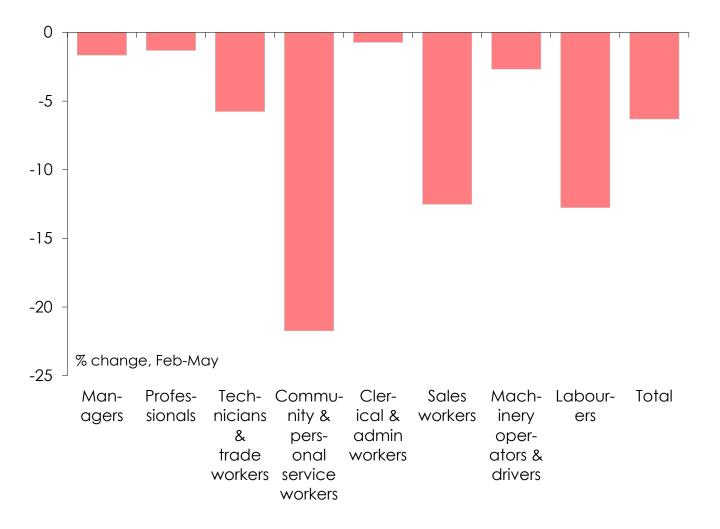
Proportion of change in total employment between February and March 2020, by industry



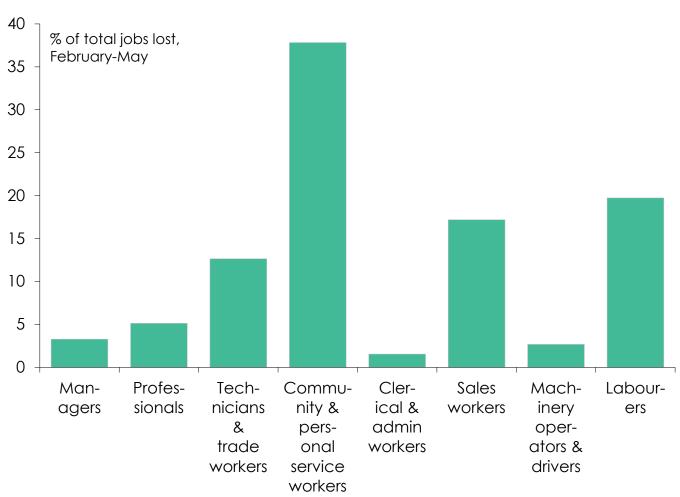


### Community & personal service workers, sales workers and labourers have accounted for 75% of job losses since February

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



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

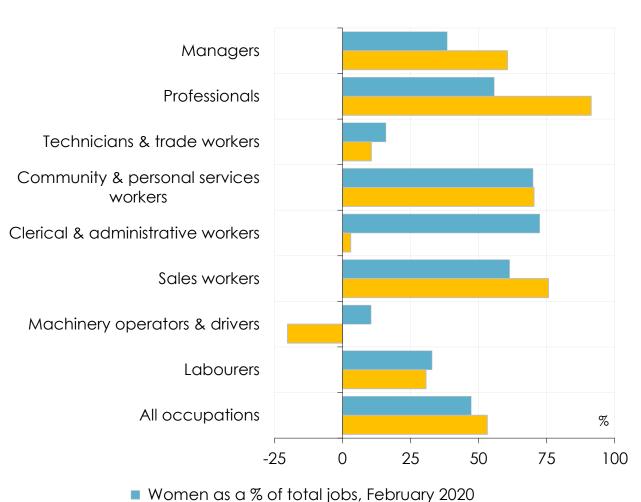


Source: ABS, Detailed quarterly labour force data, May 2020. August data will be released on 24th September.

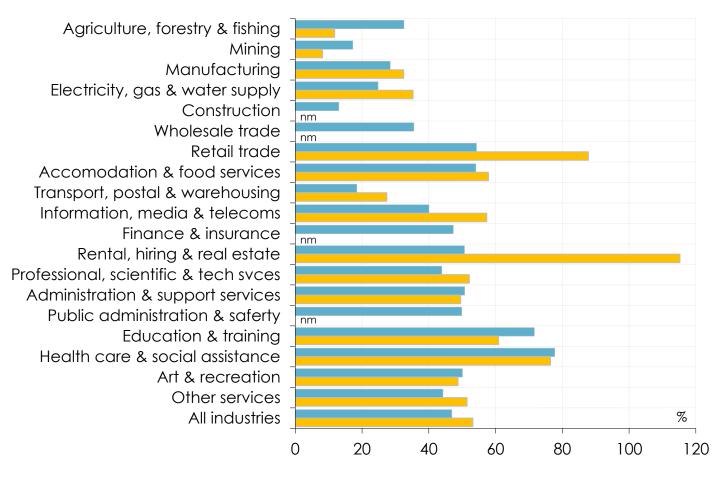


### Women have borne 53% of the job losses since February, partly because they tend to work in occupations or industries which have been hardest hit

### Women's share of jobs in February, and of job losses since February, by occupation



### Women's share of jobs in February, and of job losses since February, by industry



- Women as a % of total jobs, February 2020

Women as a % of job losers between February & May

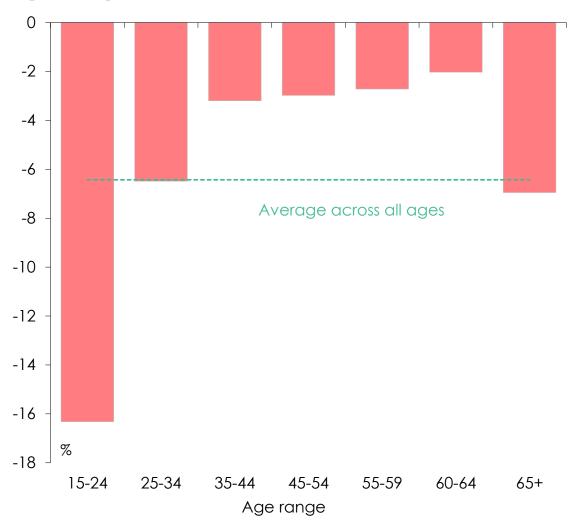
■ Women as a % of job losers between February & May

Note: Data depicted in these charts are not seasonally adjust. "nm" = "not meaningful", because employment of women in the industry thus marked either increased between February and May 2020; or fell despite total employment in that industry rising between February and May. Source: ABS, Detailed quarterly labour force data, May 2020. August data will be released on 24th September.

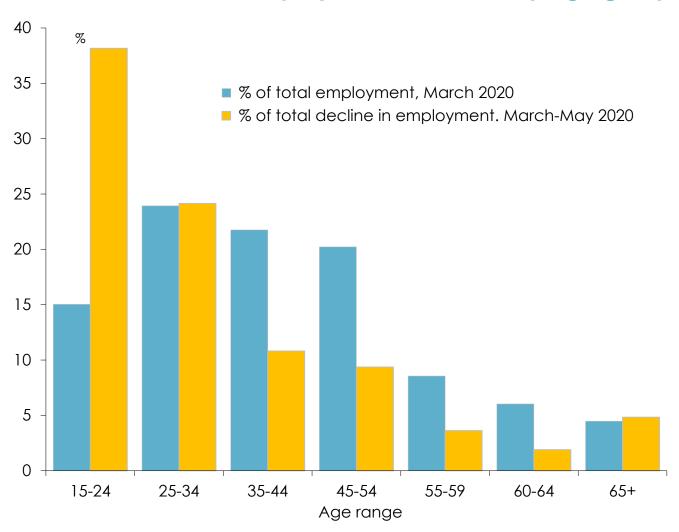


# People aged 15-24 accounted for 15% of total pre-pandemic employment but have experienced 38% of the jobs lost since March

### Change in employment, March-May 2020, by age range

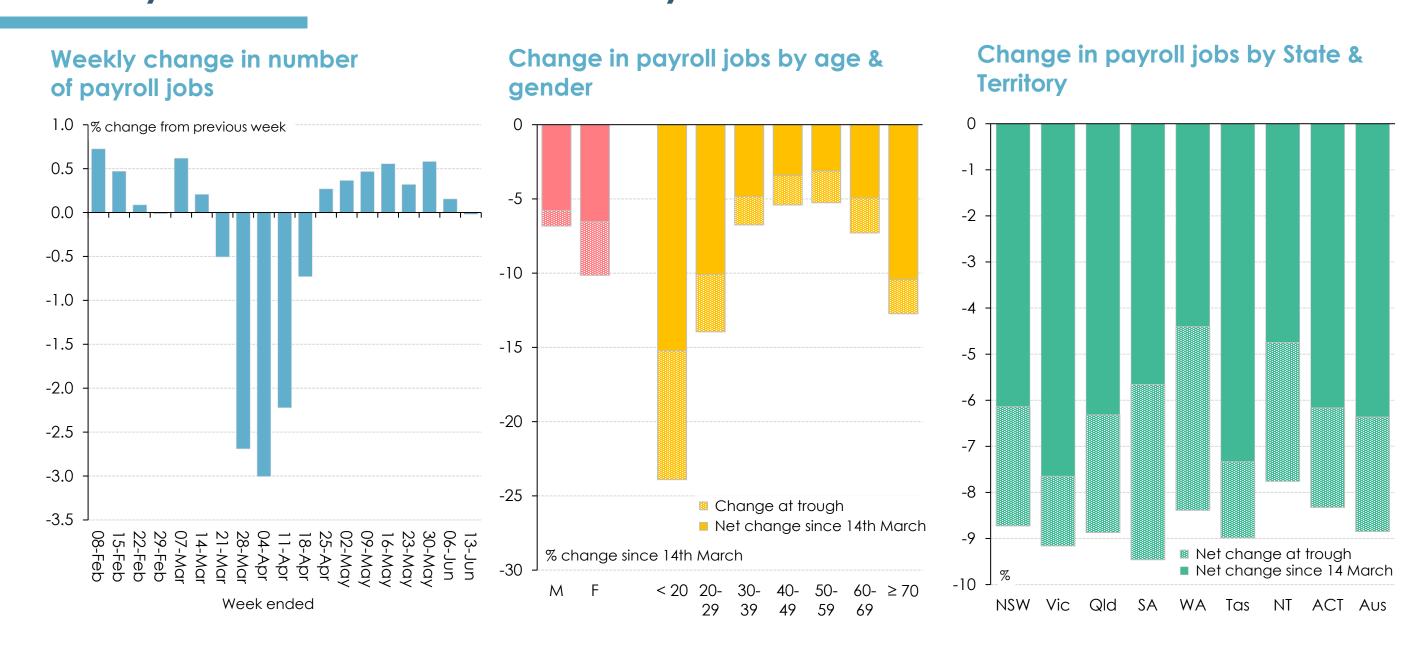


### Share of total job losses between March and May 2020 and share of total employment in March, by age group





### Payroll employment dropped by 8.8% between mid-March and mid-April, but by mid-June had recovered by 2.7%

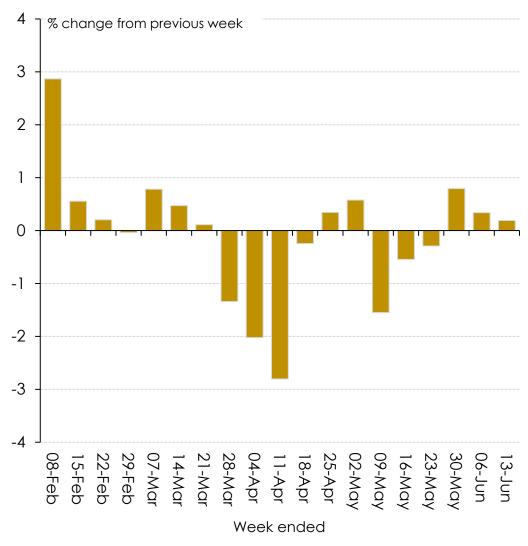


Source: ABS. Data refers to the number of payroll jobs at businesses participating in the Australian Taxation Office's Singe Touch Payroll system, which covers 99% of employers with 20 or more employees and about 71% of smaller employees. People with two or more jobs (about 6% of the total) are counted more than once. Data are not seasonally adjusted. Data for weeks up to week ended 27th June will be released this coming Tuesday, 14th July.

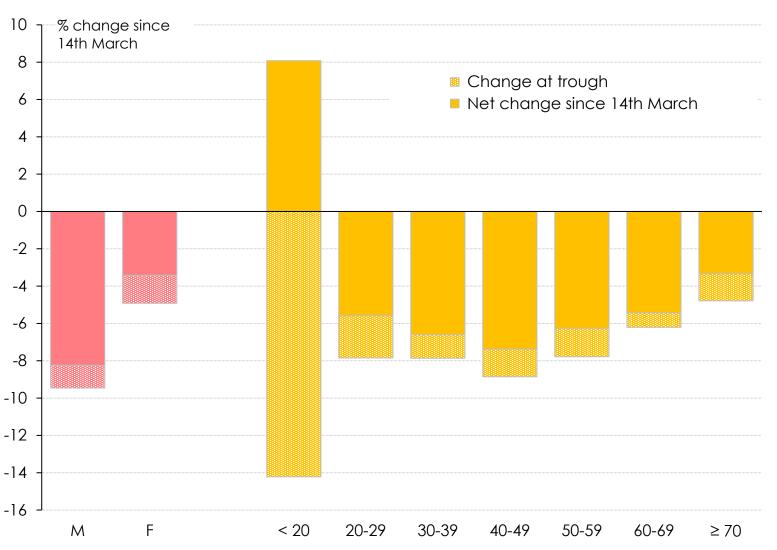


# Wages have risen since the Government's JobKeeper program started, and teenagers are getting paid more than they were before the shutdown

### Weekly change in total wages paid



### Change in total wages paid by gender and age group

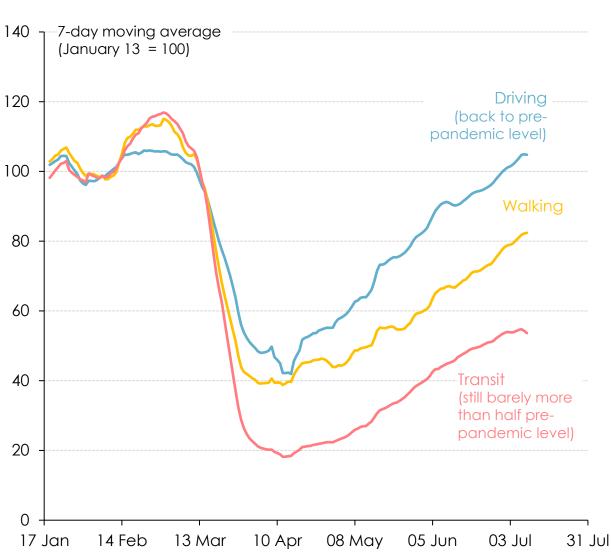


Note: The smaller fall in women's wages than men's likely reflects the fact that JobKeeper payments (at a flat rate of \$1500 per employee per fortnight) represent a higher proportion of women's (lower) average earnings than men's. Ditto for teenagers (most of whom work part-time). Source: ABS. Data 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 counted more than once. Data are not seasonally adjusted.

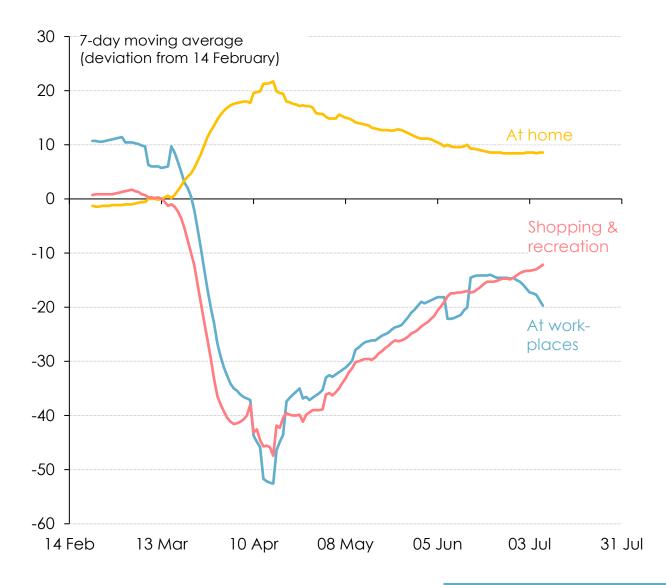


## Australians are starting to get out and about again as restrictions ease, but many people are avoiding public transport

### Time spent driving, walking and in transit



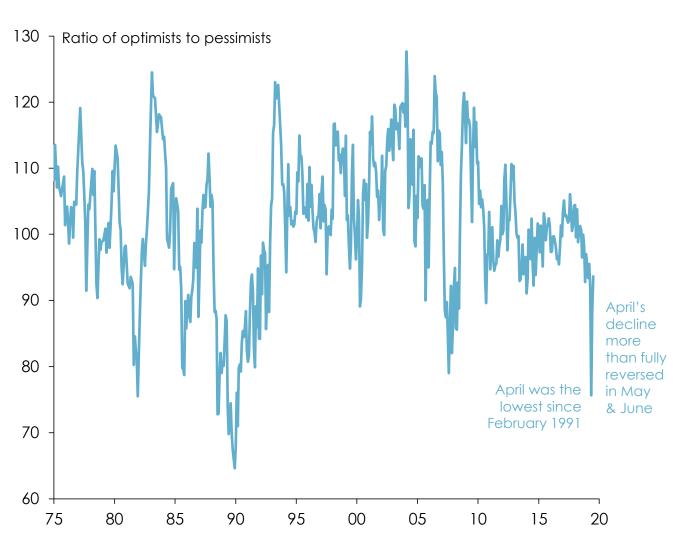
### Time spent working, at home, shopping & playing



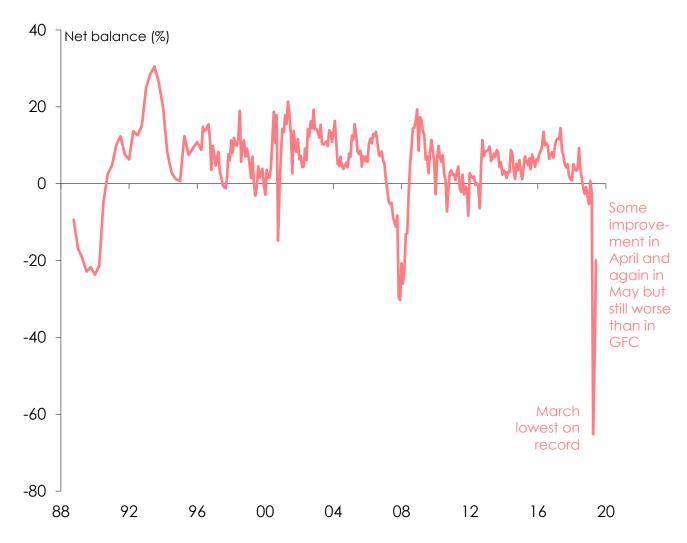


# Consumer confidence is now (June) back to pre-pandemic levels, though business confidence was still quite weak as of May

#### Consumer confidence



#### **Business confidence**

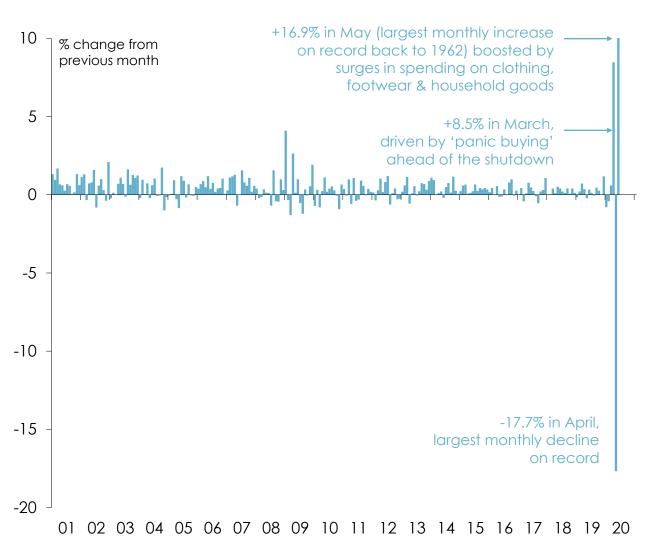




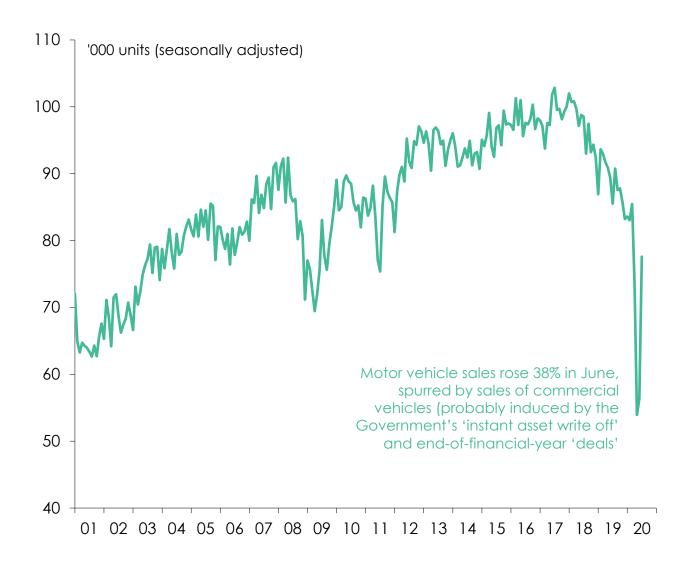


# Retail sales rebounded 16.9% in May after a 17.7% decline in April; while vehicle sales surged in June (though still well below year-earlier levels)

#### **Retail sales**



#### Motor vehicle sales

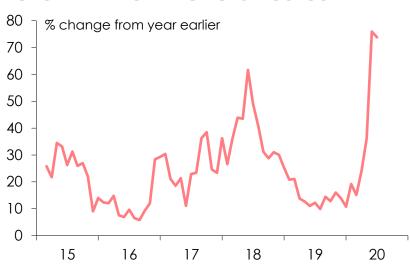




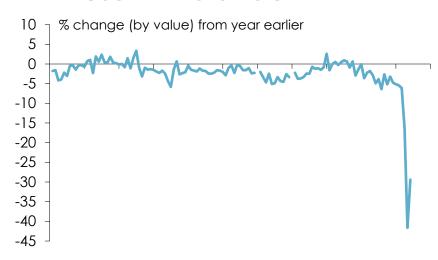


## The pandemic and lockdown has accelerated changes in the way Australians shop, and make payments

#### Growth in online retail sales



#### ATM cash withdrawals



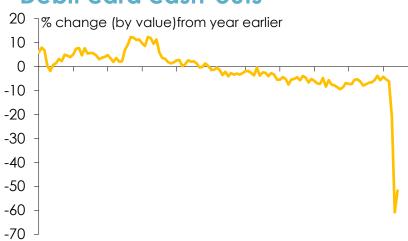
#### Credit card cash advances



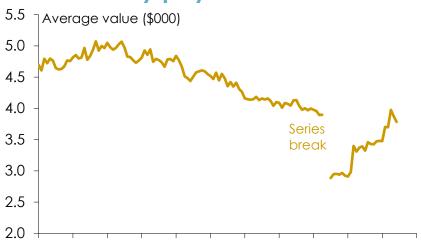
#### Online retail 'market share'



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



#### Direct entry payments





## Property prices fell by an average of 1.0% over May and June on thin volumes, largely reflecting falls in top quartile prices

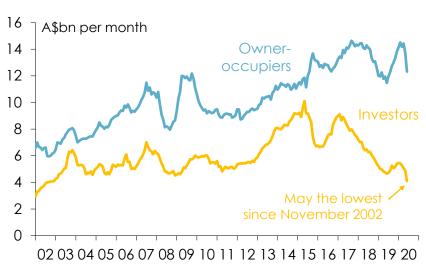


Note: The index of property prices measures the 'organic' change in underlying sales values by using a hedonic regression methodology that takes account of changes in the characteristics of properties being sold from month to month. The index of residential rents uses a similar methodology to measure 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 June 2020; July data released on 3<sup>rd</sup> August. Sources: CoreLogic; SQM Research.

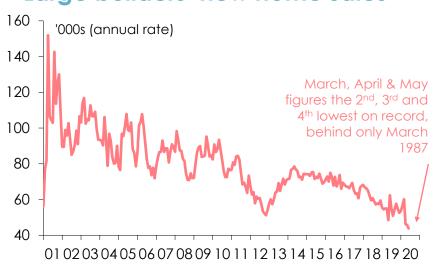


# Residential building activity will turn down over the next few months and longer-term will be adversely affected by sharply lower immigration

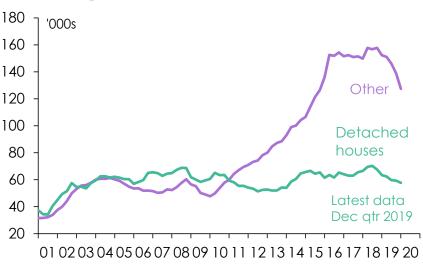
### Housing finance commitments



### Large builders' new home sales



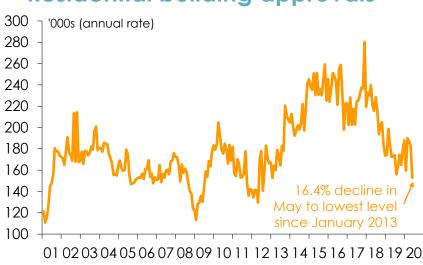
### **Dwellings under construction**



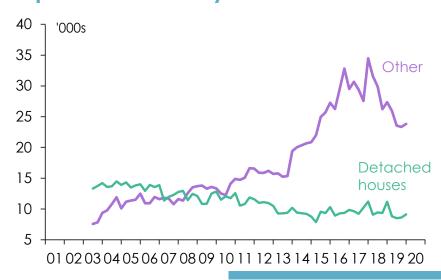
### Refinancings as pc of total



### Residential building approvals



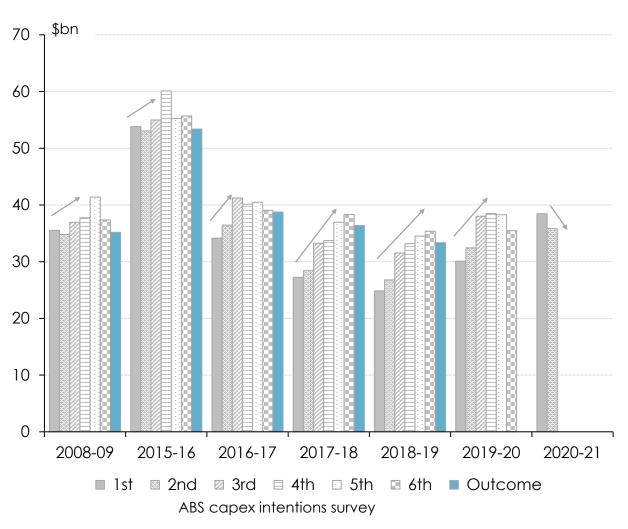
### 'Pipeline' of work yet to be done



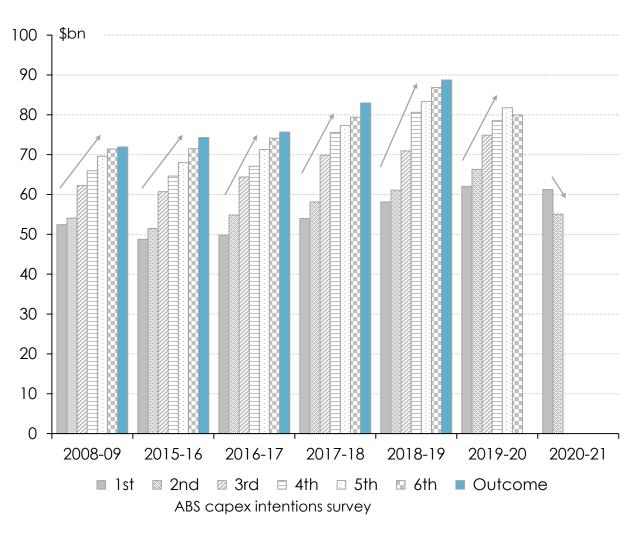


### Businesses have cut back their capital expenditure intentions for 2020-21, which is unusual for this time of year

### Capital expenditure intentions - mining



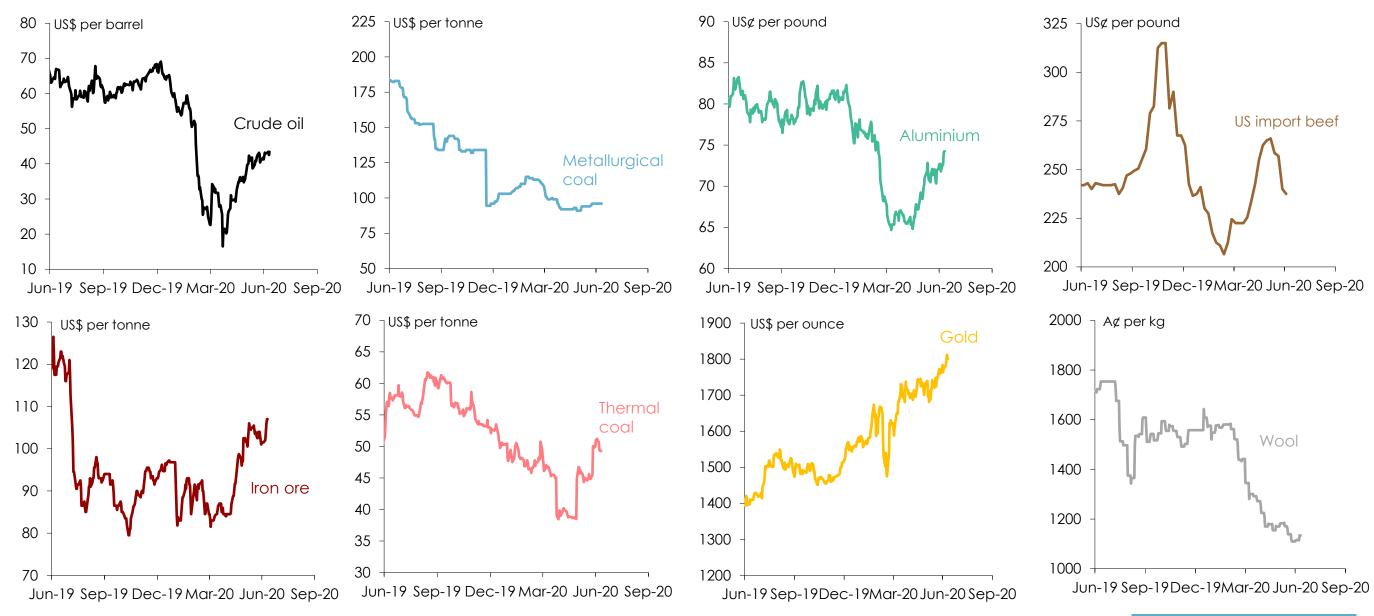
### Capital expenditure intentions – non-mining



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 (next update 27th August).



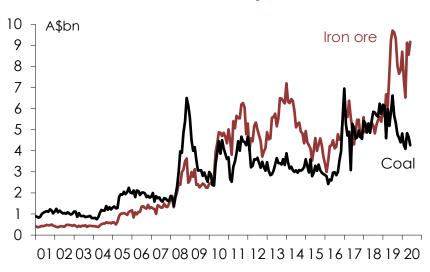
## Resources and energy prices have continued to strengthen in recent weeks, but agricultural commodities have been trending down



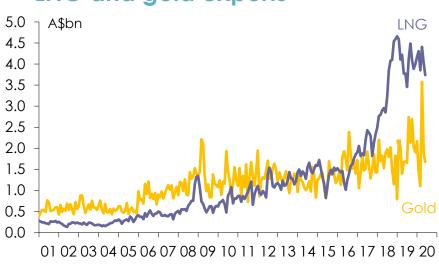


## Exports of most items except iron ore have fallen since March, but that's been offset by big falls in imports, especially services & consumer goods

#### Iron ore and coal exports



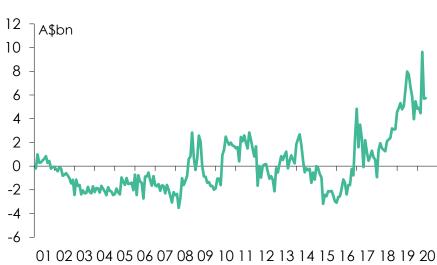
### LNG and gold exports



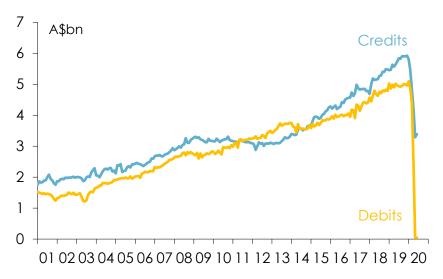
### Merchandise exports and imports



#### Merchandise trade balance



#### Tourism-related services trade



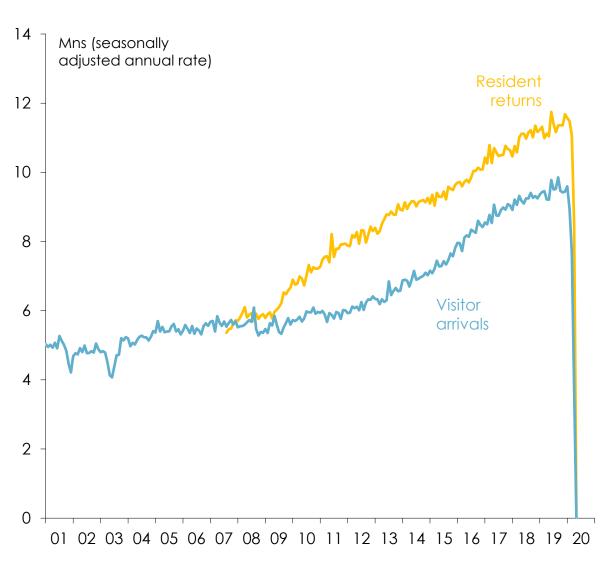
#### Tourism services trade balance



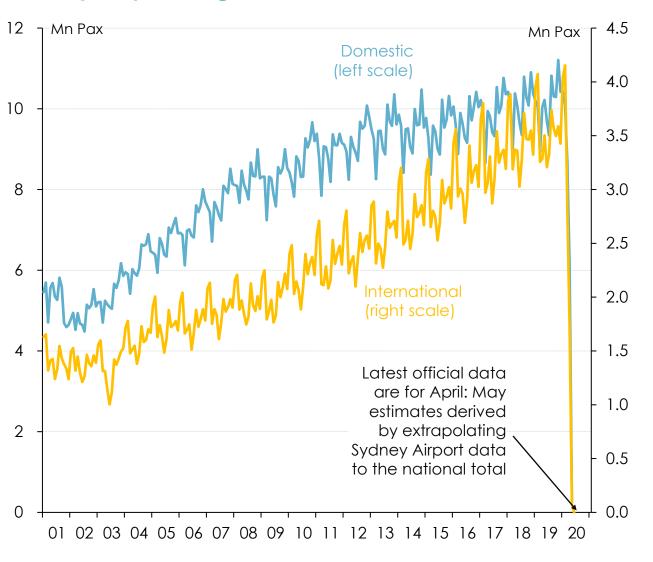


### Tourism and aviation have been severely impacted by the closure of international and most state borders

#### Short-term visitor arrivals and resident returns



### Airport passenger movements

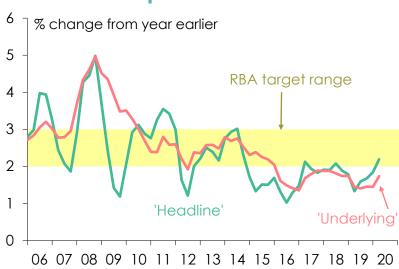






### Inflation will turn negative, temporarily, in Q2 and likely remain below the RBA's target until at least the second half of 2021

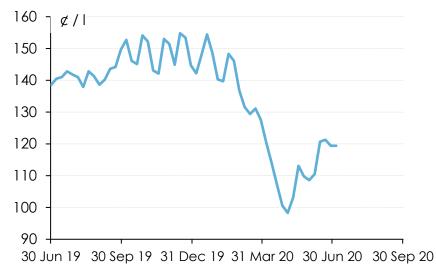
#### Consumer prices



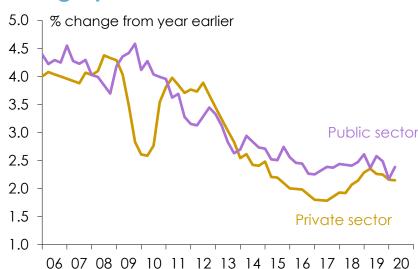
### Housing costs in the CPI



### Retail petrol prices



### Wage price index

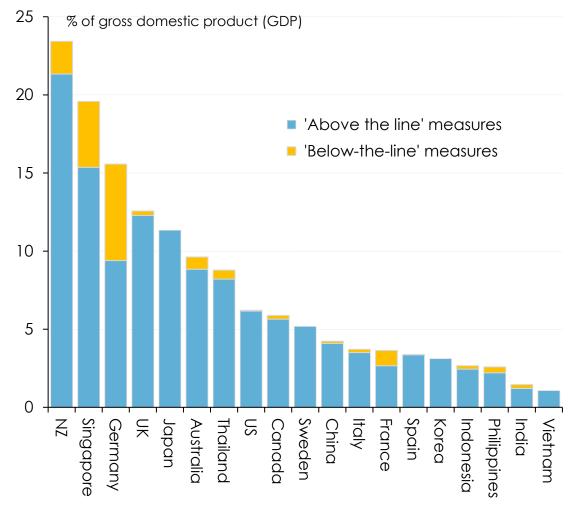


- ☐ The RBA has undershot its 2-3% target for 'underlying' inflation for four years in a row
- Q2 inflation will likely be negative (both qoq and yoy) as a result of lower petrol prices (down 21% on average in the quarter) and the Government's provision of free child care during the shutdown
- □ Conversely the removal of free child care from 12<sup>th</sup> July and the rebound in petrol prices will boost the CPI in Q3
- ☐ Freezes on utilities charges in some states will detract from inflation in Q3
- ☐ House prices and rents will continue to exert downward pressure on inflation over at least the next 6-12 months
- Wages haven't been a source of price pressure for the past six years, and are unlikely to be in the next 1-2 years either



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

### Fiscal policy responses to Covid-19 – selected 'advanced' & Asia-Pacific economies

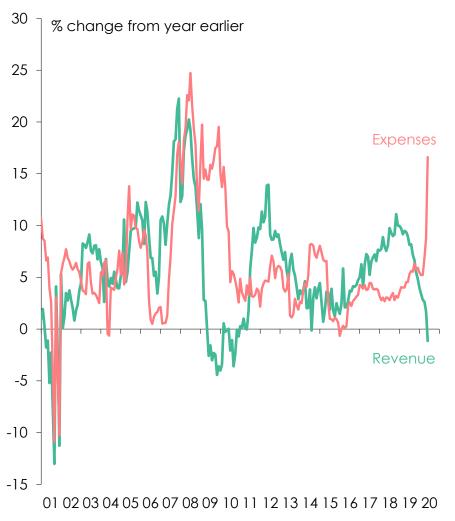


Note: 'Above the line' measures comprise additional or accelerated spending and deferred or foregone revenue. 'Below the line' measures comprise equity injections, loans, asset purchases and debt assumptions, but do not include loan guarantees or other contingent liabilities. Source: IMF, Fiscal Monitor: Database of Country Fiscal Measures in Response to the COVID-19 Pandemic, 24<sup>th</sup> June 2020.

- □ Policy measures announced thus far by the Australian Government total \$180bn (allowing for the downward revision to the cost of JobKeeper), or about 9% of GDP which is large by international standards (and double what was done during the GFC)
- □ Principal objectives of policy measures have been to
  - maximize the 'survival prospects' of businesses affected by the shutdown
  - 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 has resulted in some anomalies
- Policy measures also designed to be readily 'switched off' once the need for them has passed
  - most of them scheduled to terminate at the end of September
  - which poses the risk of a 'setback' at that time unless the Government 'tapers' some programs

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

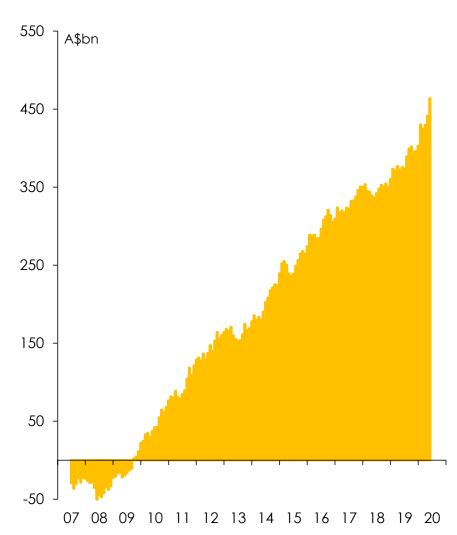
### Australian Government revenue and expenses



### Australian Government 'underlying' cash balance



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

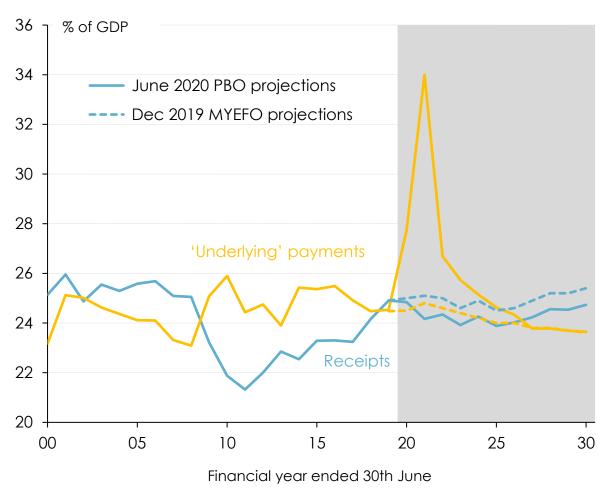


Note: Revenue and expenses are accrual accounting items. The 'underlying' cash balance is (cash) receipts minus payments, excluding transactions in financial assets for policy purposes and net earnings of the Future Fund. Net debt is total interest-bearing liabilities (government securities, deposits,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

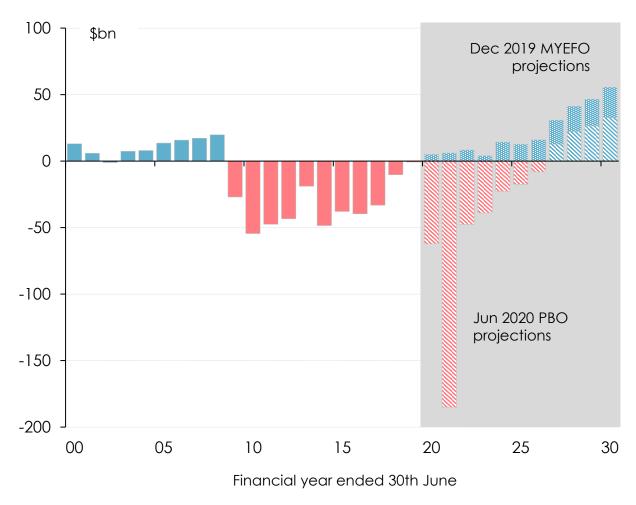


# ... will blow out to over \$60bn in 2019-20, around \$185bn in 2020-21, and won't return to surplus (on unchanged policies) until 2026-27 – but ...

## Australian Government receipts and 'underlying' payments



### Australian Government 'underlying' cash balance

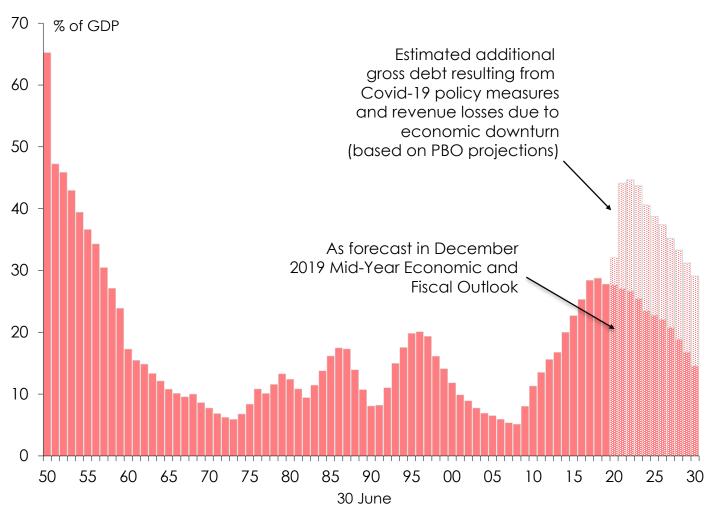


Note: 'Underlying' payments excludes net investment in financial assets for policy purposes. The 'underlying' cash balance also excludes net earnings of the Future Fund prior to 2020-21. Sources: Australian Government, Mid-Year Economic and Fiscal Outlook (MYEFO), December 2019; Parliamentary Budget Office (PBO), Mediumterm fiscal projections: impact of Covid-19 pandemic and response (5th June 2020). The PBO projections were compiled using the RBA's 'baseline' scenario outlined in its May 8th Statement on Monetary Policy for economic parameters. The Treasurer will give an update of fiscal and economic forecasts on 23rd July.

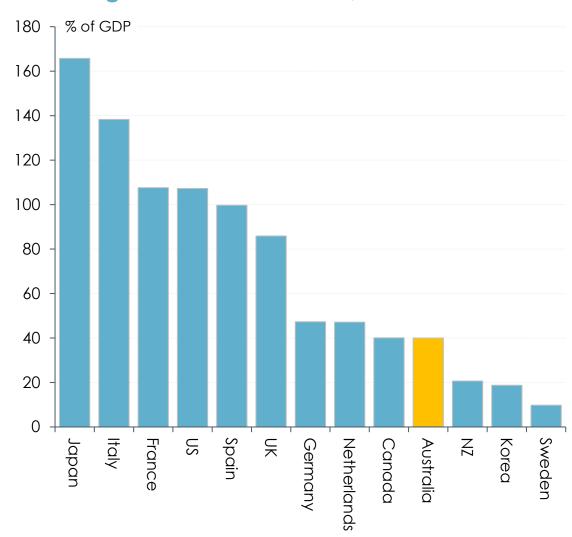


## ... there's no need for undue alarm at the level of debt which will be incurred by the Australian Government

### Australian Government gross public debt



#### General government net debt, 2021



Note: Estimates of additional gross debt from 2019-20 onwards are derived by assuming that gross debt rises by the same dollar amount as net debt projected by the Parliamentary Budget Office in its 'baseline' scenario. Sources: Katrina Di Marco, Mitchell Pirie and Wilson Au-Yeung, A History of Public Debt in Australia (Australian Treasury, 2011); Australian Government, Mid-Year Economic and Fiscal Outlook (MYEFO), December 2019; Parliamentary Budget Office (PBO), Medium-term fiscal projections: impact of Covid-19 pandemic and response (5<sup>th</sup> June 2020); International Monetary Fund, Fiscal Monitor, April 2020.



## The Treasurer this week foreshadowed 'bringing forward' personal income tax cuts scheduled for 2022 and 2024 as a form of fiscal stimulus

### Legislated personal income tax cuts

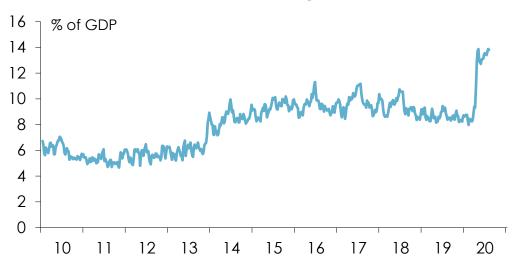
Rates from 2017- 18 to 2023-24	New thresholds from 2018-19 to 2021-22		New thresholds from 2022-23 to 2023-24		
Nil	Up to \$18,200 pa		Up to \$18,200 pa		
19 %	\$18,201 - \$	\$37,000	\$18,201 - \$45,000		
32.5 %	\$37,001 - \$	\$90,000	\$45,001 - \$120,000		
37 %	\$90,001 - \$180,000		\$120,001 - \$180,000		
45 %	Above \$180,000		Above \$180,000		
Low & middle income tax offset	Up to \$1,080 Up to \$445		-		
Low income tax offset			Up to \$700		
Rates from 2024-2	5	New thresholds from 2024-25			
Nil		Up to \$18,200 pa			
19 %		\$18,201 - \$45,000 pa			
30 %		\$45,001 - \$200,000 pa			
45 %		Above \$200,000 pa			
Low income tax o	ffset	Up to \$700			

- ☐ Treasurer Josh Frydenberg this week foreshadowed bringing forward the personal income tax cuts currently legislated to come into effect on 1<sup>st</sup> July 2022, as a way to 'boost aggregate demand, boost consumption [and] put more money in people's pockets'
- ☐ These were estimated to 'cost' \$4½bn (in revenue foregone) in FY2022-23 and (together with the further cuts legislated to take effect from the beginning of FYT 2023-2024) \$143bn over the ten years to 2029-30
  - bringing forward these tax cuts would likely provide a lift to demand and activity but, inevitably, at least some of the boost in after-tax incomes would be saved and/or used to pay down debt (as happened with the enhanced tax refunds paid out in the Sep quarter of last year slide 45)
  - whereas the same dollar amount spent (eg) on infrastructure, or on cash handouts to low-income earners who don't pay tax, would boost demand by a larger amount
- ☐ The Treasurer also foreshadowed an extension of income support measures for businesses and individuals affected by ongoing restrictions beyond the scheduled expiry date of 30<sup>th</sup> September
- Details are likely to be announced in the Treasurer's 23<sup>rd</sup> July Economic Statement

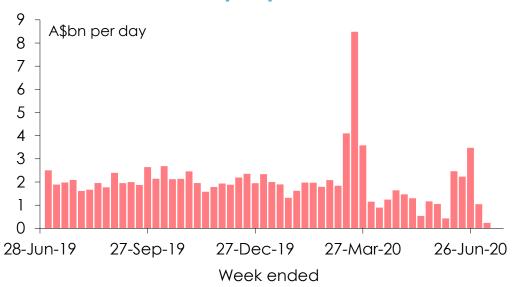
Source: Australian Government, 2019-20 Budget Paper No. 1, Budget Strategy and Outlook, April 2019.

# With official interest rates as low as they can go, the RBA has implemented a range of 'quantitative' monetary policy measures

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



### Reserve Bank daily repo transactions

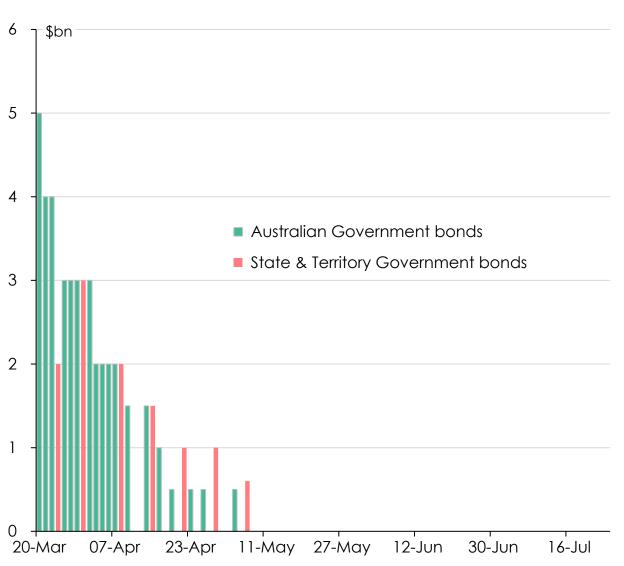


Source: Reserve Bank of Australia.

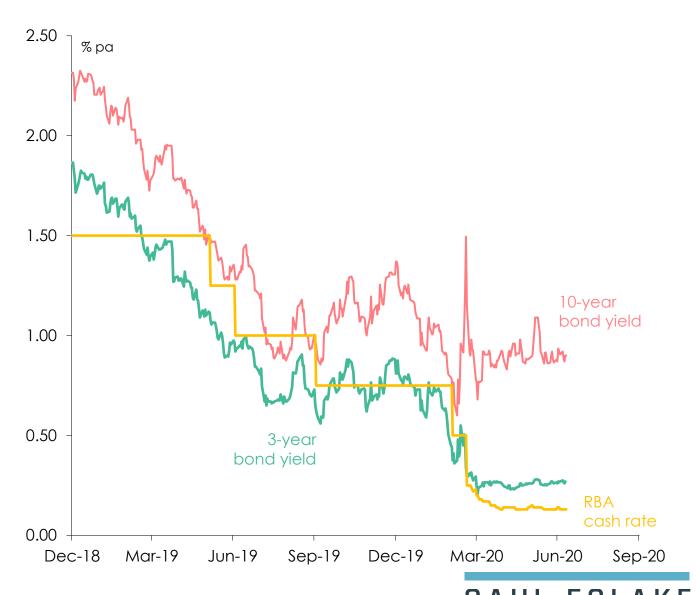
- ☐ The RBA again left its cash rate target at 0.25% this week
  - the RBA has committed to keeping it at this level 'until progress is made towards full employment' and 'it is confident inflation will be sustainably within the 2-3% target band'
  - RBA has 'no appetite' for negative rates
- ☐ RBA has committed to purchase bonds in the secondary market with a view to keeping the 3-year yield at 0.25%
  - to date RBA bond purchases amount to \$50bn ( $\sim 2\frac{1}{2}\%$  of GDP)
  - the RBA hasn't purchased any bonds since 6<sup>th</sup> May (but is prepared to 'scale up' these purchases again 'if necessary')
  - RBA assets are now equivalent to 13.8% of GDP (cf. BoC 23%, US Fed 33%, BoE 36%, ECB 54%, BoJ 119% see slide 23) and RBNZ 16%
- ☐ RBA provided additional liquidity through 'open market operations' to prevent disruption of credit markets in March
  - RBA repo transactions averaged just over \$1 bn a day in April and May, down from peak of almost  $$8\frac{1}{2}$$  bn a day in 3rd week of March
  - but increased to an average of \$2 bn a day in June
- 'Term Funding Facility' to provide up to \$90 bn at 0.25% pa to lending institutions for increased lending, especially to businesses with annual turnover of less than \$50 mn
  - to date \$15.9 bn has been provided through this facility (of which \$5.4 bn has been drawn over the past four weeks)

# The RBA is targeting the 3-year bond yield at 0.25% pa – and hasn't needed to purchase bonds since 6<sup>th</sup> May in order to keep it there

### RBA open market bond purchases



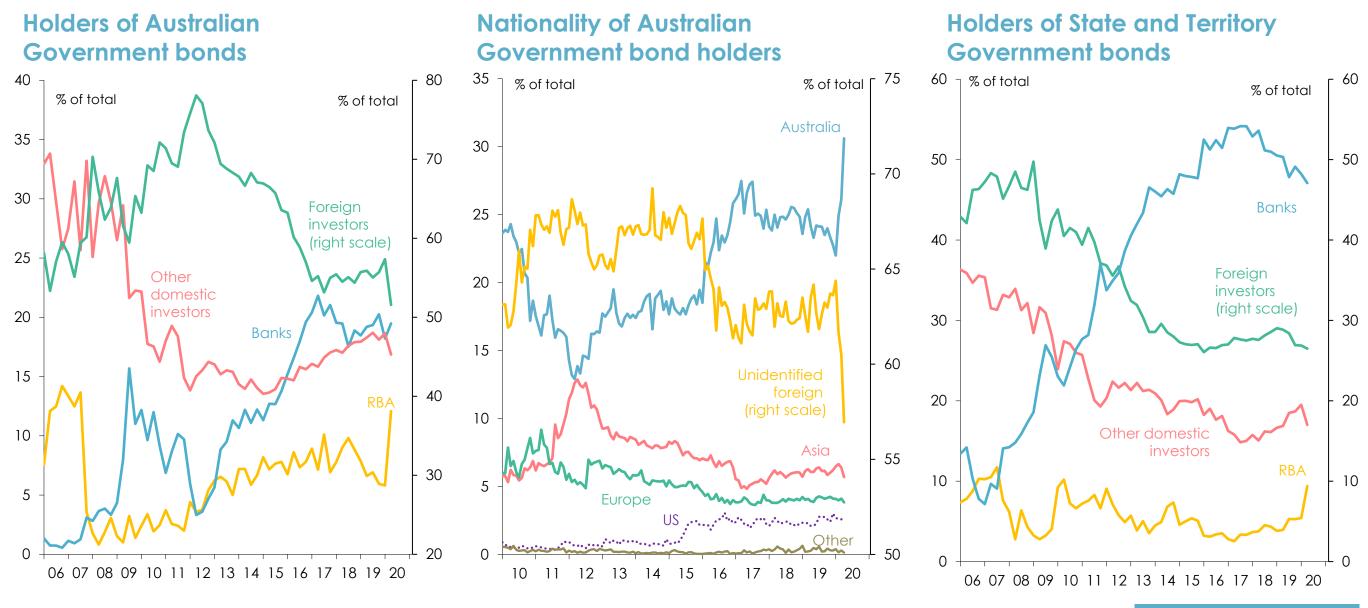
#### Interest rates



CORINNA ECONOMIC ADVISORY

Source: Reserve Bank of Australia. Data up to 10<sup>th</sup> July.

## The RBA in effect more than absorbed the increase in Commonwealth and State debt, and sales by foreign investors, during the March quarter





# RBA Deputy Governor Guy Debelle made five important points in an online presentation to the Economic Society last month

### ☐ It will likely be 'some years' before the RBA lifts the cash rate

 "the cash rate will not be raised until progress is being made towards full employment and [the Board] is confident that inflation will be sustainably within the 2-3% target band ... this is likely to be some years away"

#### ☐ The RBA hasn't isn't directly financing the Government's deficit

- "When the RBA is buying government bonds, we are buying them in the secondary market. That is, they are bonds that have been issued to investors some time earlier. .... The RBA is not participating in any of the [Australian Office of Financial Management's] AOFM's bond tenders and does not purchase bonds directly from the state government borrowing authorities"

#### ☐ The RBA's 'QE' program won't lead to higher inflation

"While the bond purchases by the RBA increase liquidity in the system, I do not see this posing any risk of generating excessively high inflation in the foreseeable future. Indeed, the opposite seems to be the more likely challenge in the current economic climate, that is, that inflation will remain below the RBA's target"

#### ☐ There is no cause for undue alarm over the increase in Australian Government debt

- "Nor do I see any issue at all with the capacity of the Government to repay the bonds it has issued. Firstly, even with the increased issuance to fund the fiscal stimulus, the stock of government debt relative to the size of the Australian economy remains low. Secondly, the Government is borrowing at yields that are very low historically.
- "Importantly, the yields on government debt are considerably below the long-run growth rate of the economy; that is, r is less than g. While ever this remains the case ... there are no concerns at all about fiscal sustainability from increased debt issuance. This is because growth in the economy will work to lower government debt as a share of nominal GDP"

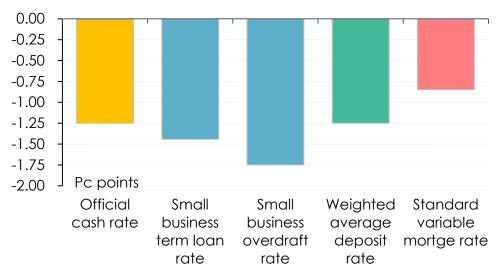
### ☐ Monetary and fiscal policy will need to remain expansionary for a long time

- "it is still quite likely that this decline [in economic activity] will have a long-lived impact that will require considerable policy support for quite some time to come. While much of that support is likely to be on the fiscal side, the Reserve Bank will maintain the current policies to keep borrowing costs low and credit available, and stands ready to do more as the circumstances warrant"

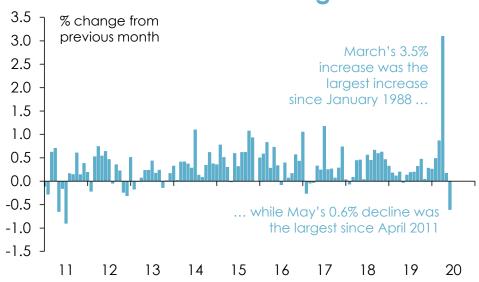


### For now at least, banks are 'part of the solution', not 'part of the problem'

### Changes in interest rates since June 2019



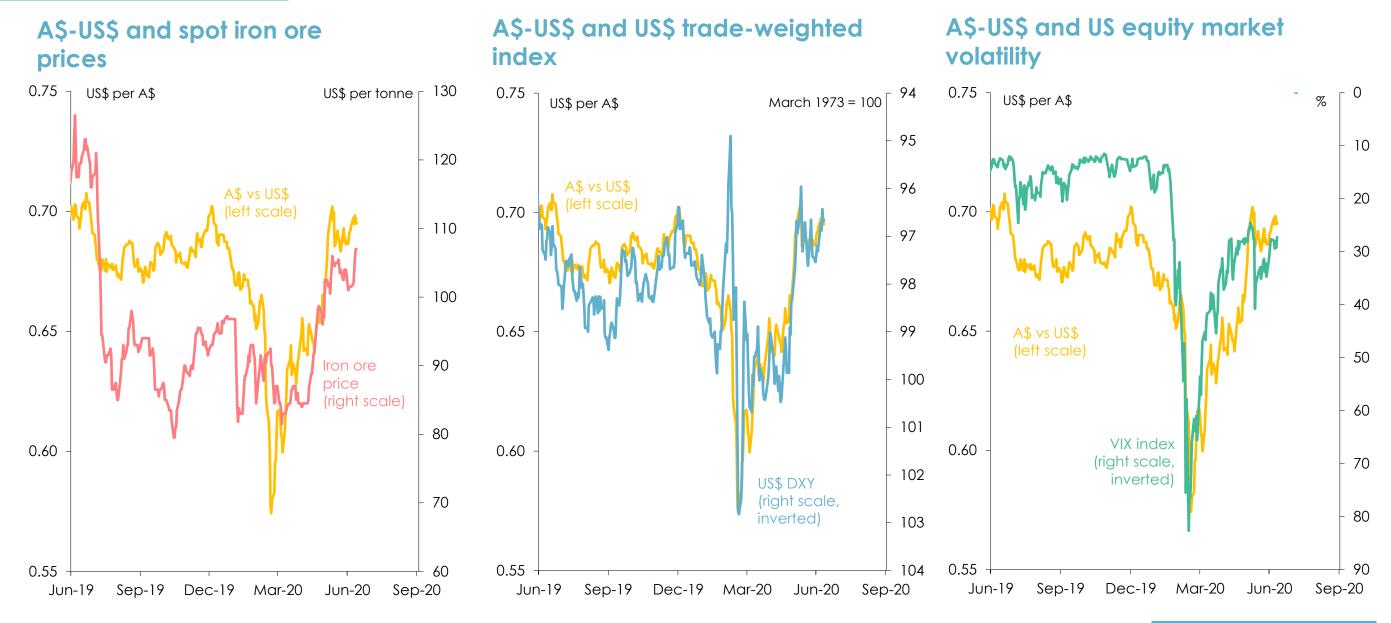
#### **Business credit outstanding**



- 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' of up to six months to business and home mortgage borrowers who request it (about 13% of mortgages and 20% of SME loans)
  - although it is important to note that under these arrangements interest payments are deferred and capitalized, not foregone
- ☐ These 'repayment holidays' are due to expire at end-September, but banks this week 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
- Major banks have cut or deferred dividends
- ☐ At end-2019, the Australian banking system had a Common Equity Tier 1 capital ratio of 11.3% of risk-weighted assets well above the 10.5% required for major banks since 2017
  - APRA will allow banks CET1 ratios to drop below the 2017 requirements during the Covid-19 period provided they remain above other minimum prudential capital requirements
- Banks may be hit by increased loan impairment charges after
   30<sup>th</sup> September

Source: Reserve Bank of Australia.

## The A\$ appreciated by about $\frac{1}{2}$ % against the US\$ this week, buoyed by higher iron ore prices and a weaker US\$





### However most other currencies (especially the NZ\$) rose by more against the US\$ than the A\$ did

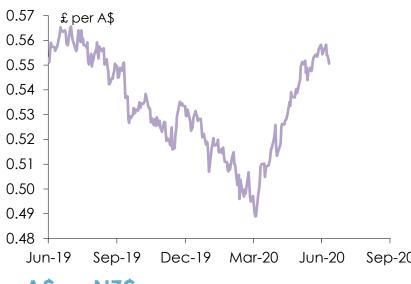
### A\$ vs Japanese yen → ¥ per A\$



A\$ vs Chinese yuan



A\$ vs British pound



AS vs Korean won



AS vs Euro



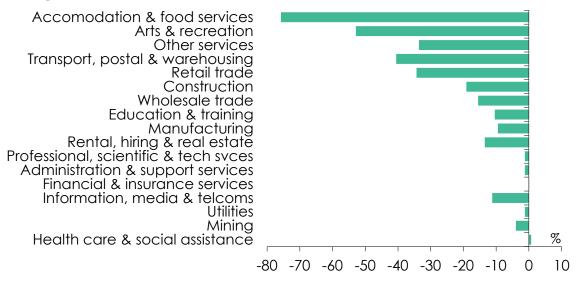
AS vs NZS



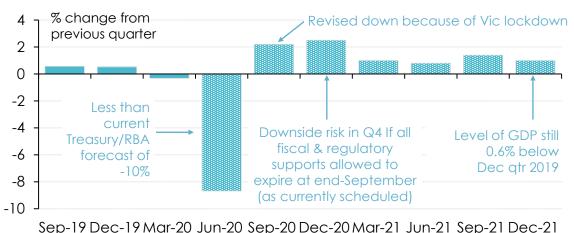


## Real GDP is likely to have shrunk by ~9% in the June quarter; the Sep qtr forecast has been revised down because of the Melbourne lockdown

### Projected peak-to-trough decline in output, by sector



### Projected quarterly real GDP profile

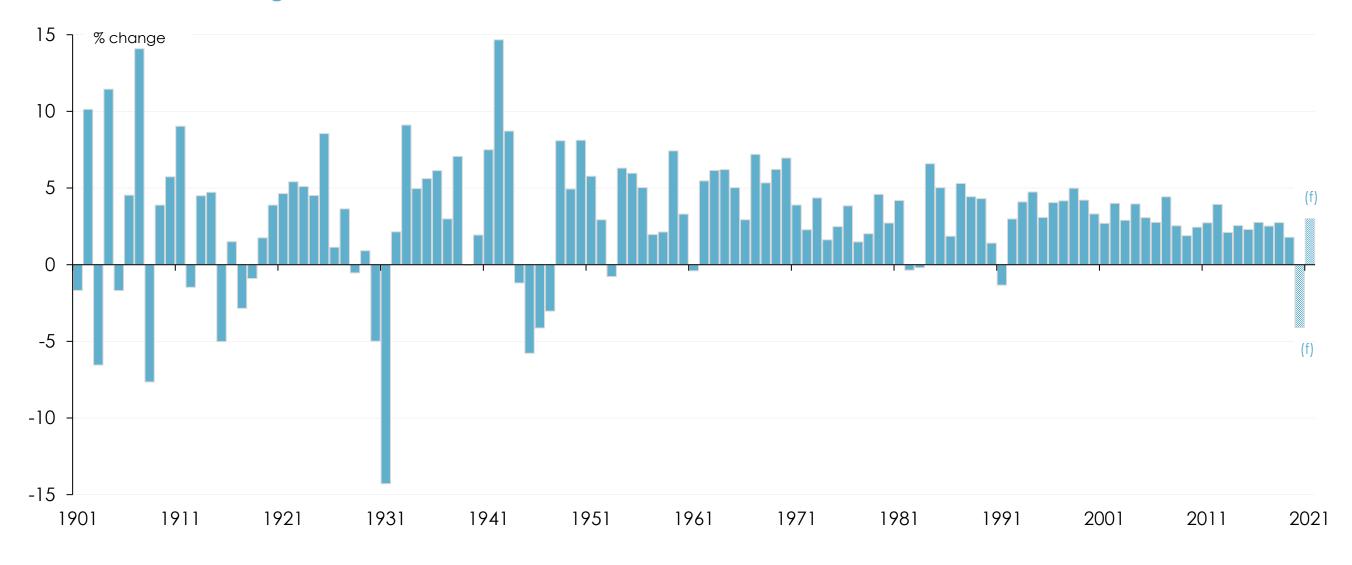


- GDP forecasts have been constructed using estimates of notional monthly changes in gross value added by industry, rather than the conventional approach of quarterly changes in the major expenditure components of GDP (consumption, housing & business investment, government spending, net exports etc)
- ☐ When the lock-down began, governments were indicating that restrictions would likely remain in force until the end of September
- On that basis, real GDP seemed likely to decline by at least 12 % between Dec atr 2019 and the probable trough in Sep atr 2020
- □ However with restrictions being eased (gradually) from mid-May onwards, the peak-to-trough decline in GDP may be 9% or less, with positive growth resuming in the Sep atr
- □ The renewed lockdown in Greater Melbourne will likely detract 1-1¼ pc pts from national GDP growth in the Sep qtr not enough to turn it into a 3<sup>rd</sup> consecutive negative quarter but there will presumably be some mechanical boost to Dec qtr growth
- Assuming the end-September 'fiscal cliff' is tempered, the forecast now envisages year-average growth of about -34% for FY 2019-20 and -2% for FY 2020-21; or -41/2% for CY2020 and +31/4% for CY 2021
- Even with an earlier easing of restrictions, a 'V-shaped' recovery looks unlikely (see slide 88) and some additional fiscal stimulus is likely to be required to support the recovery that will occur



## The contraction in real GDP in 2020 will still be the largest since the Great Depression

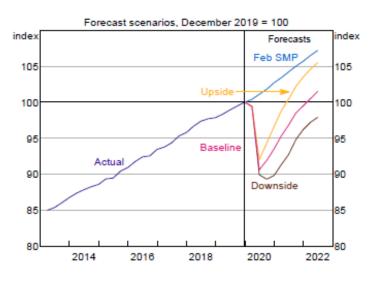
### Australian real GDP growth since 1901



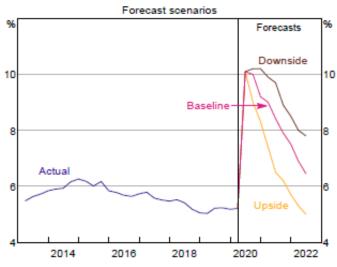


## The RBA's most recent Monetary Policy Statement presented three alternative scenarios

#### **GDP**



#### Unemployment



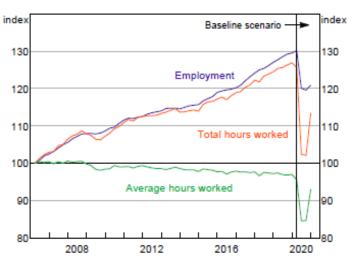
The RBA's 'baseline' scenario assumes that most 'social distancing' restrictions are lifted by the end of the September quarter, apart from those on large public gatherings and events, and international borders (which aren't opened until early 2021)

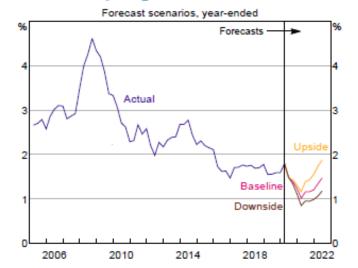
☐ In this scenario real GDP declines by 5% in 2020 but rebounds by 4% in 2021, while unemployment peaks at around 10% in the current (June quarter) and declines to 6½% by Dec qtr 2021



- □ Under this scenario most of the initial decline in real GDP is reversed by mid-2021, while unemployment could be back to 51/4% by mid-2022
- ☐ The 'downside' scenario assumes restrictions are retained for longer or need to be reimposed
- In this scenario GDP would remain close to its trough through end-2020, and unemployment would remain close to 10% until 'well into 2021'

### **Employment**





'Underlying' inflation





# The Government's "3-Step Framework" for the easing of restrictions doesn't amount to a complete recovery

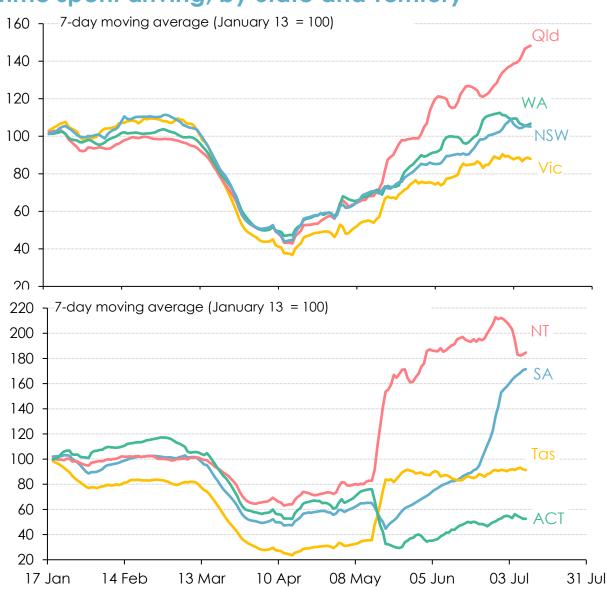
	GATHERINGS & WORK	EDUCATION & CHILDCARE	RETAIL & SALES	CAFES & RESTAURANTS	ENTERTAINMENT & AMUSEMENT VENUES	SPORT & RECREATION	ACCOMMODATION	DOMESTIC TRAVEL
Step 1	Non-work gatherings of up to 10 Up to 5 visitors at home in addition to normal residents Work from home if it works for you and your employer Workplaces develop a COVIDSafe plan Avoid public transport in peak hour	Child care centres, primary and secondary schools open as per state and territory plans Universities/technical colleges to increase face-to-face where possible and prioritise hands-on, skills based learning	Retail stores open Retail stores and shopping centre managers must develop COVIDSafe plans Auctions/open homes can have gatherings of up to 10, recording contact details	May open and seat up to 10 patrons at one time Need to maintain an average density of 4m² per person Food courts are to remain closed to seated patrons	To remain closed: Indoor movie theatres, concert venues, stadiums, galleries, museums, zoos, pubs, registered and licensed clubs, nightclubs, gaming venues, strip clubs and brothels Exception: Restaurants or cafes in these venues may seat up to 10 patrons at one time	No indoor physical activity including gyms Community centres, outdoor gyms, playgrounds and skate parks allow up to 10 people Outdoor sport (up to 10 people) consistent with the AIS Framework for Rebooting Sport Pools open with restrictions	Continue current arrangements for caravan parks and camping grounds (closed to tourists in some states and territories) Hostels and hotels are open for accommodation	Allow local and regional travel for recreation  Refer to state and territory governments for border restrictions and biosecurity conditions
Step 2	Non-work gatherings of up to 20 States and territories may allow larger numbers in some circumstances Work from home if it works for you and your employer Workplaces develop a COVIDSafe plan Avoid public transport in peak hour	Child care centres, primary and secondary schools open as per state and territory plans Universities/technical colleges to increase face-to-face where possible and prioritise hands-on, skills based learning	Retail stores open Retail stores and shopping centre managers must develop COVIDSafe plans Auctions/open homes can have gatherings of up to 20, recording contact details	Cafes and restaurants can seat up to 20 patrons at one time  Need to maintain an average density of 4m² per person  Food courts are to remain closed to seated patrons	Indoor movie theatres, concert venues, stadiums, galleries, museums, zoos may have up to 20 patrons To remain closed: pubs, registered and licensed clubs, RSL clubs, casinos, nightclubs, strip clubs and brothels Exception: Restaurants or cafes in these venues may seat up to 20 patrons at one time	Up to 20 people allowed to participate in outdoor sports consistent with the AIS Framework for Rebooting Sport Up to 20 people allowed to participate in all indoor sports, including gyms Need to maintain an average density of 4m² per person Pools open with restrictions	Caravan parks and camping grounds fully open  All accommodation areas open and allow gatherings of up to 20 people	Allow local and regional travel for recreation  Consider allowing interstate recreational travel depending on the situation in each state and territory  Refer to state and territory governments for biosecurity conditions
Step 3	Non-work gatherings of up to 100 people Larger gatherings to be considered Return to workplace Workplaces develop a COVIDSafe plan Avoid public transport in peak hour	Child care centres, primary and secondary schools open as per state and territory plans Universities/technical colleges to increase face-to-face where possible and prioritise hands-on, skills based learning Consider reopening residential colleges and international student travel	Retail stores open Retail stores and shopping centre managers must develop COVIDSafe plans Auctions/open homes can have gatherings of up to 100, recording contact details	Cafes, restaurants and food courts can seat up to 100 people Need to maintain an average density of 4m <sup>2</sup> per person	Venues open in Step 2 may have up to 100 patrons Consideration will be given to opening bar areas and gaming rooms Exception: Restaurants or cafes in these venues may seat up to 100 patrons at one time To remain closed: strip clubs and brothels	All venues allowed to operate with gatherings of up to 100 people  Need to maintain an average density of 4m² per person  Community sport expansion to be considered consistent with the AIS Framework for Rebooting Sport	All accommodation areas open and allow gatherings of up to 100 people	Allow interstate travel Refer to state and territory governments for biosecurity conditions

- Treasury expects 250,000 jobs to be regained, and \$3bn of GDP to be recouped, from 'Step 1'
- Full implementation of all 3 steps is expected to enable 850,000 people to return to work, and generate \$9.4bn per month of additional GDP
- These figures
  compare with job
  losses to date of
  around 975,000,
  and Treasury
  estimates of a
  \$50bn decline in
  GDP during the
  June quarter
  (about \$16bn per
  month)

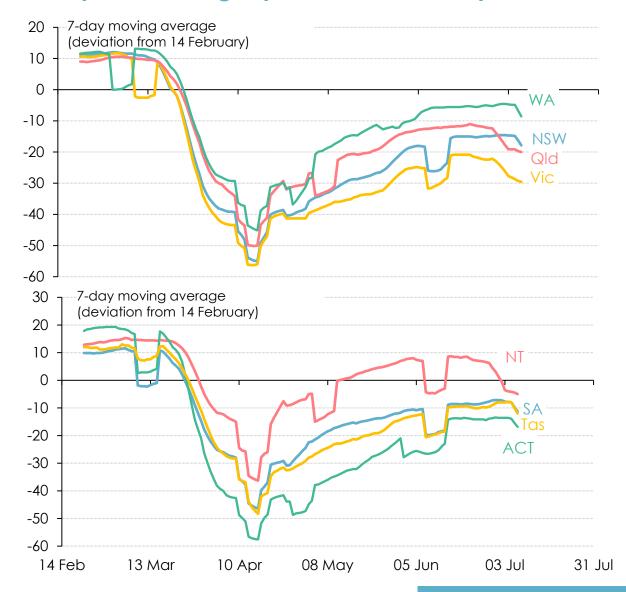
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# Mobility data suggest Northern Territory, Queensland & Western Australia returning to 'normal' fastest, with New South Wales & Victoria lagging

### Time spent driving, by State and Territory



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





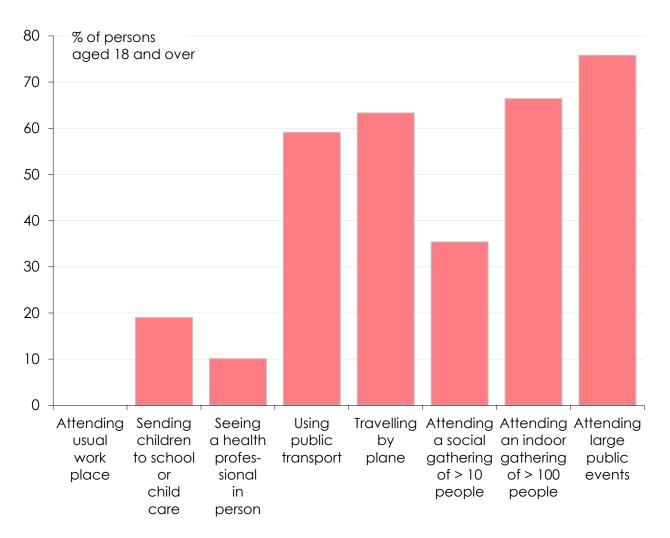
## The path out of the current downturn will be more gradual than the path into it was

- □ 'Social distancing' requirements will be relaxed gradually rather than 'all at once'
  - 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 slide 83)
- ☐ '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
  - most households will have run down discretionary savings to at least some extent, as well as having their superannuation balances depleted by market movements and/or withdrawals – and so will likely want to rebuild savings
  - 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
- ☐ There is some risk of a 'setback' when government support programs come to an end (nearly all of them at the end of September), or if restrictions on the movement or gathering of people have to be re-imposed
- □ 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 (with some exceptions)

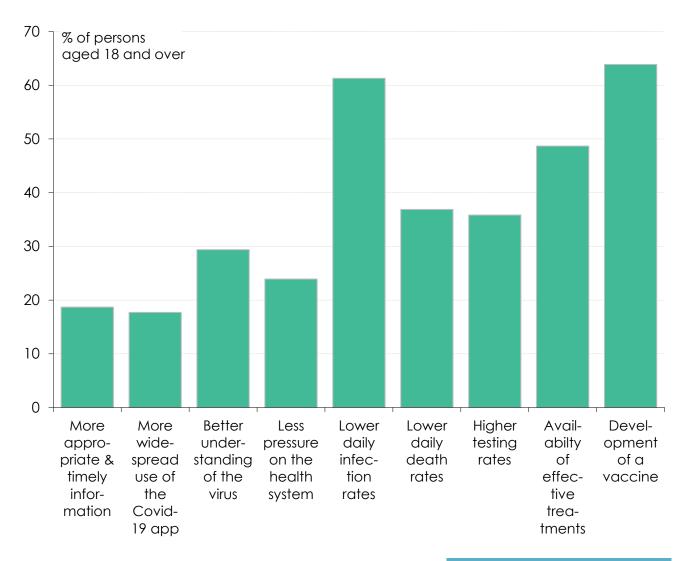


# Australians seem likely to continue to be wary of travel and large gatherings, at least until a vaccine for Covid-19 is developed

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



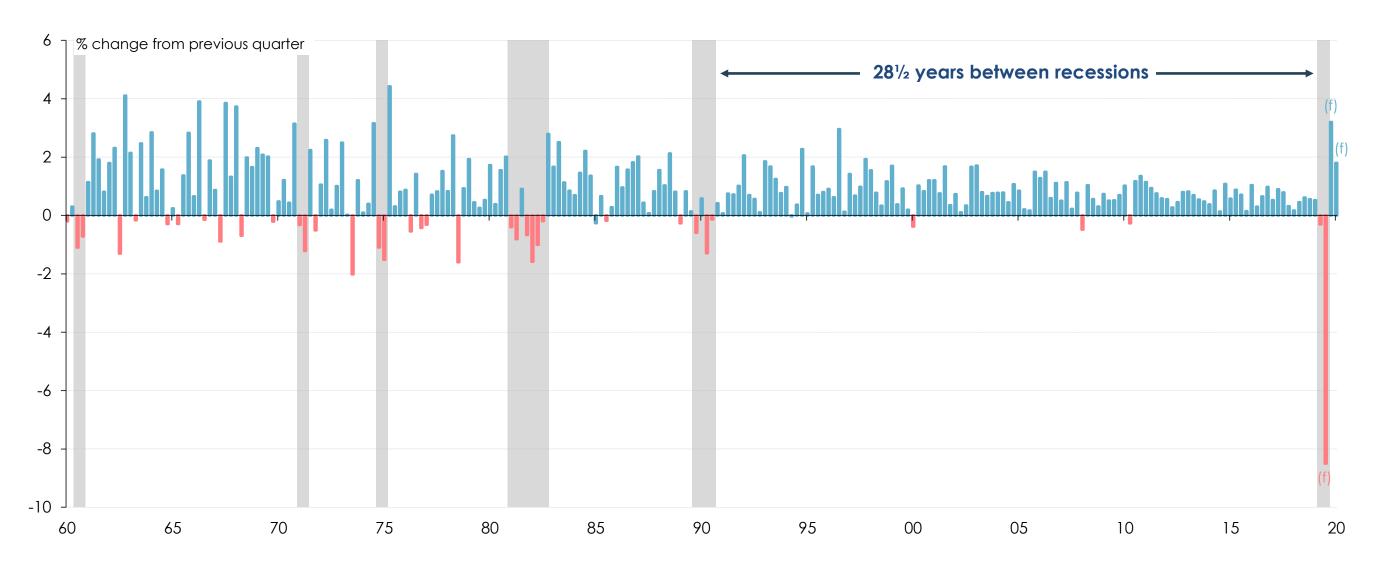
### Actions that would improve people's comfort with activities as restrictions are eased





## 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





# 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

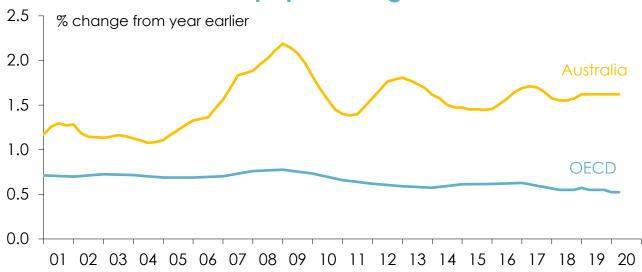
- although we haven't done nearly as well as we once did on the micro-economic front (especially with regard to productivity)

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

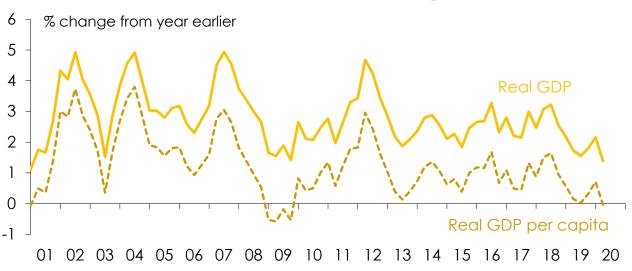
### Australia and OECD population growth



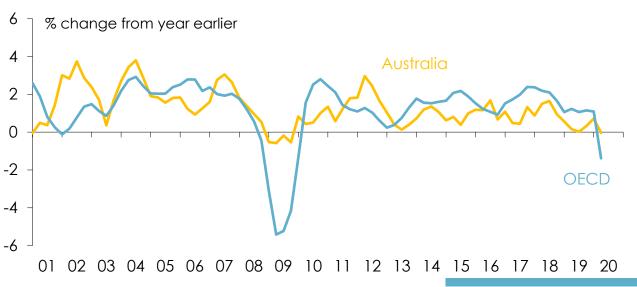
### Sources of Australia's population growth



### Australian GDP and per capita GDP growth



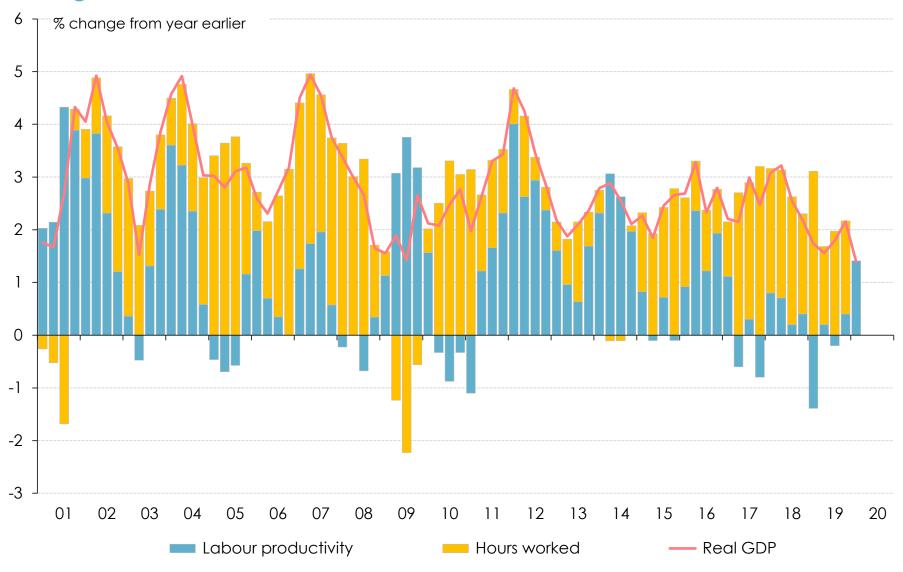
### Australia and OECD per capita real GDP growth





# Australia has come to rely much more heavily on increased labour input to drive economic growth in recent years

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

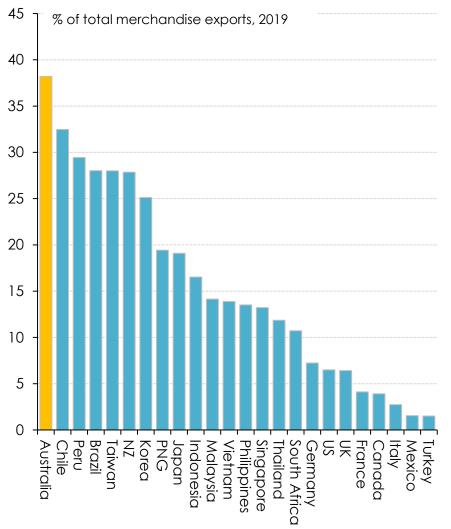


- Over the past five years, 72% of Australia's real GDP growth has come from increased labour input, and only 28% from labour productivity growth
- By contrast, between the end of the early 1990s recession and the onset of the global financial crisis, 46% of Australia's real GDP growth came from increased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

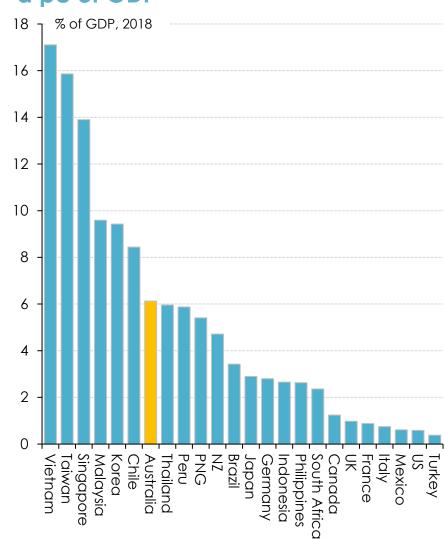


## Australia has benefited enormously from its economic relationship with China over the past 25 years, but will that continue to be the case?

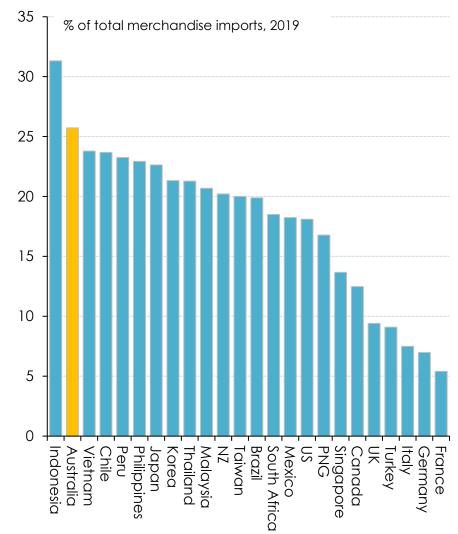
## Merchandise exports to China as a pc of total



### Merchandise exports to China as a pc of GDP

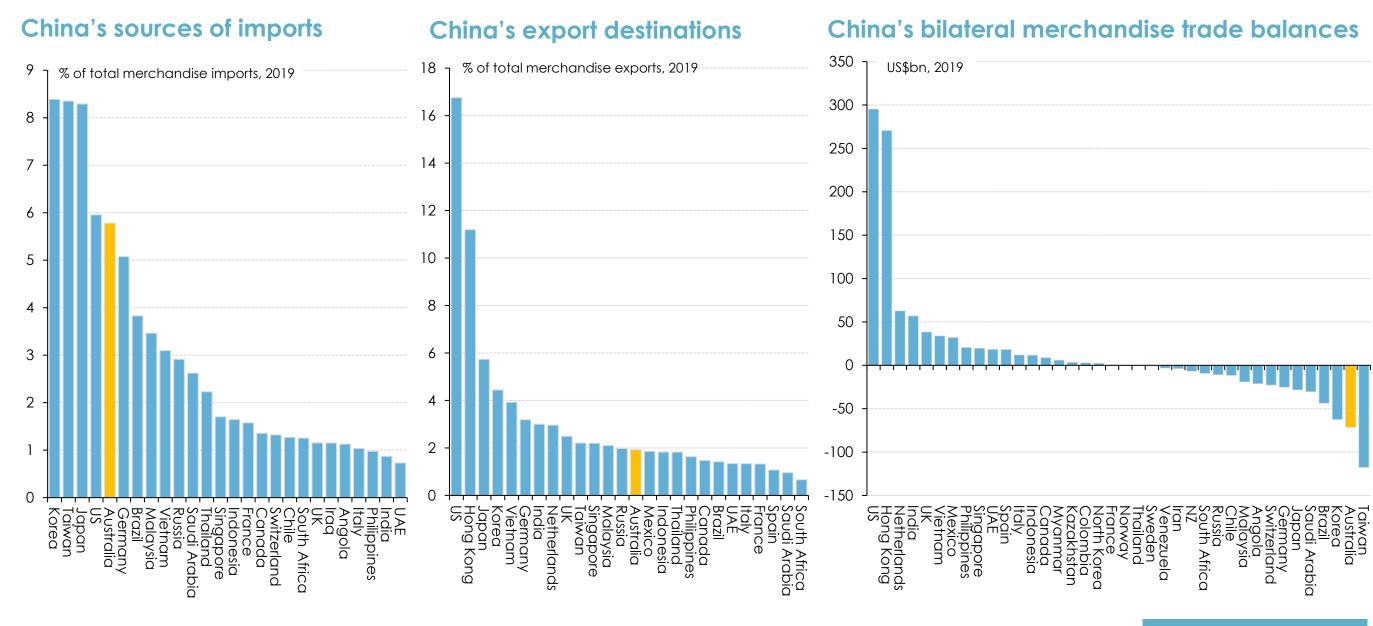


## Merchandise imports from China as a pc of total





# 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

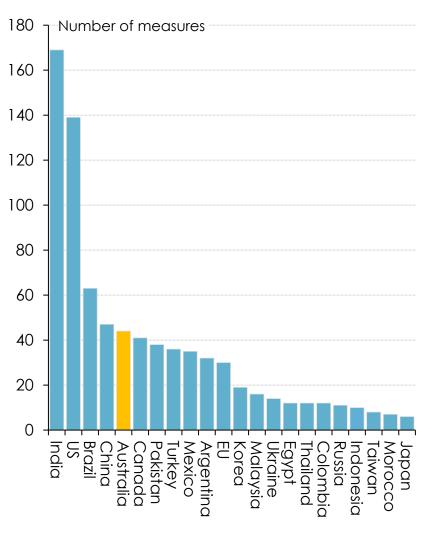




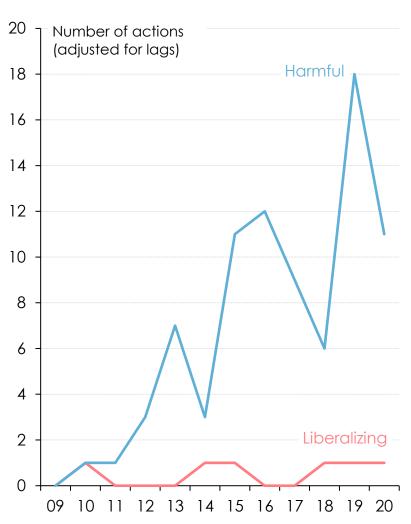


# China's threats against Australian exports of barley, beef, coal, tourism and education aren't justified, but we aren't complete innocents either

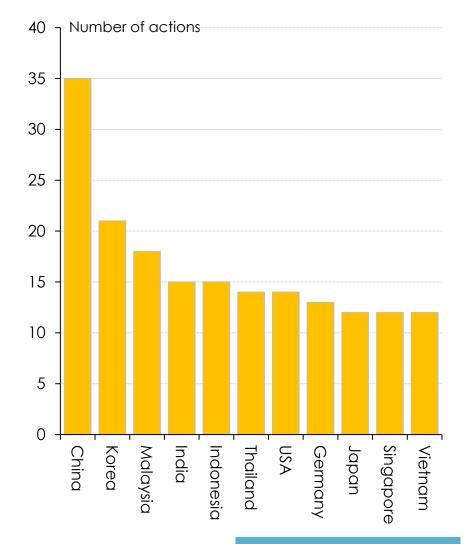
## Number of anti-dumping measures imposed, 2015-19



## Australian trade policy measures since 2009



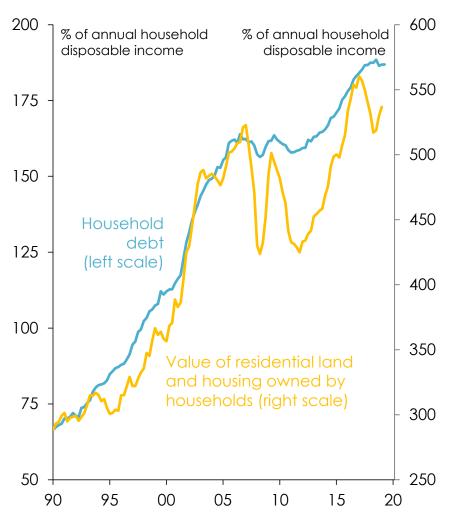
### Countries adversely affected by 'harmful' Australian trade actions



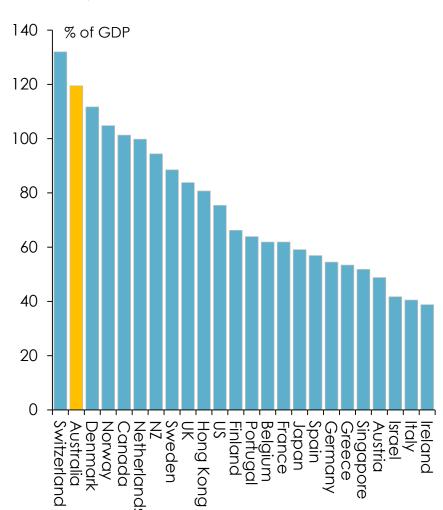


### Rising property prices and household debt are unlikely to underpin Australian economic growth as they have done for most of the past 30 years

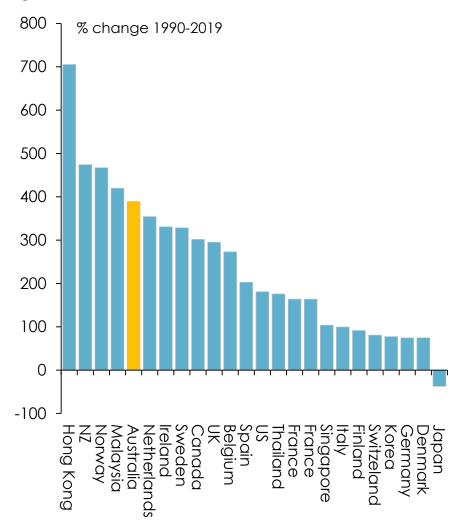
### Australian housing wealth and household debt



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



## Increase in residential property prices, 1990-2019





### Victoria

### A special look at Victoria

☐ Victoria likes to see itself as Australia's most 'progressive' and cosmopolitan state as evidenced, for example, by being the first state to abolish the death penalty, its highest 'yes' votes of any state in the 1999 referendum on whether Australia should become a republic, or the 2016 postal plebiscite on same-sex marriage and its above-average proportion of migrants, university graduates, people employed in the arts, etc. ☐ But Victoria has also long had an authoritarian streak as evidenced, for example, by its long-established record of fining its citizens over 50% more (per head of population) than other states and territories (see next slide) □ Not surprisingly, therefore, Victoria adopted a stricter lockdown in response to the risks posed by Covid-19 than any other state Victoria's restrictions were stricter and broader than those in other states (except for border closures), and lasted longer and Victoria was much more aggressive in fining people for breaching lockdown regulations than any other state, collecting 4½ times as much in fines per head from its citizens as all the other states and territories, on average ☐ One of the principal reasons for the 'second wave' of infections being experienced in Victoria appears to have been lax enforcement of regulations at quarantine hotels for returning travellers – which in Victoria (unlike other states) was contracted out to private security firms (this is now being investigated by a judicial inquiry) □ Even ahead of the 'lockdown' imposed on Greater Melbourne and the adjoining Mitchell Shire from Friday this week, Victoria appeared to be lagging the national economic recovery Given that Victoria accounts for about 23% of national GDP, and greater Melbourne for about 80% of Victoria's population, but that productivity is higher in Melbourne than in regional Victoria, and based on the Australian

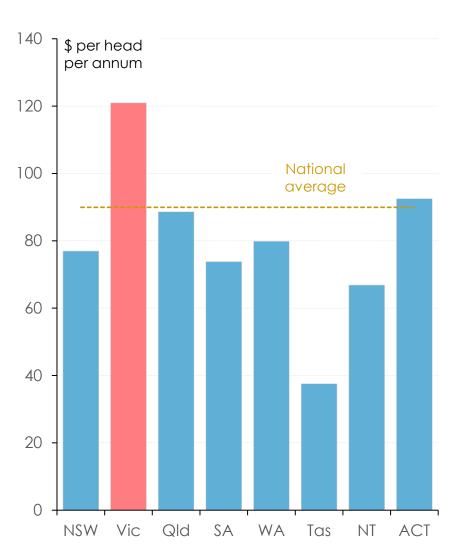
Treasury's estimate that the national lockdown was costing \$4bn a week, the Melbourne lockdown is likely to

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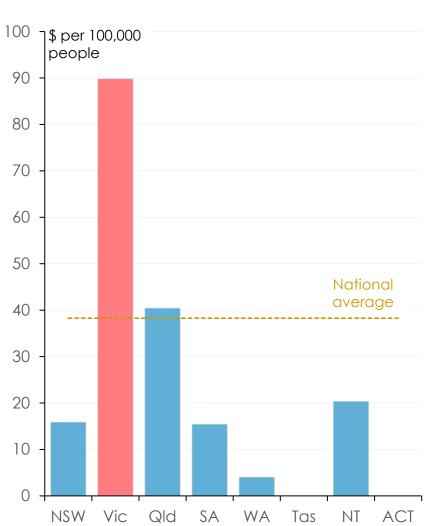
cost at least \$800mn a week – or about 1% of (national) GDP in the September quarter

## Victoria has always been more vigilant in fining its citizens than other states – but that authoritarian approach hasn't helped it fight Covid-19

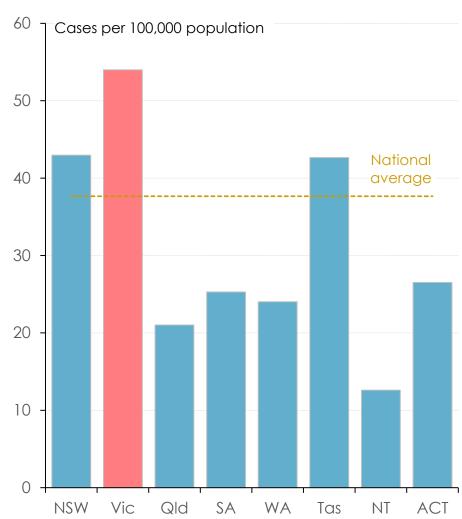
## Revenue from fines per head of population, 2014-15 to 2018-19



## Fines for breaches of lockdown regulations, per head



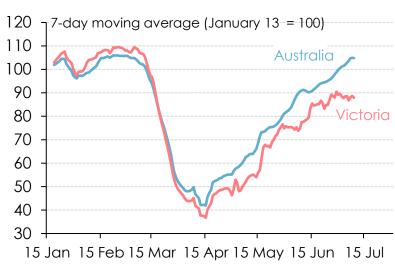
Infection rates, states and territories, as at 11<sup>th</sup> July 2020



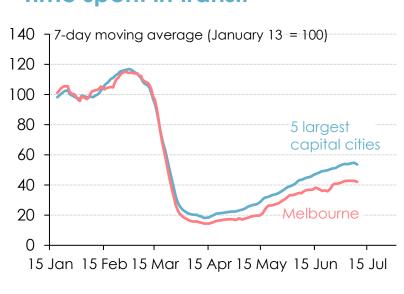


# Victoria has been lagging the rest of Australia in emerging from lockdown – this divergence will widen over the next six weeks

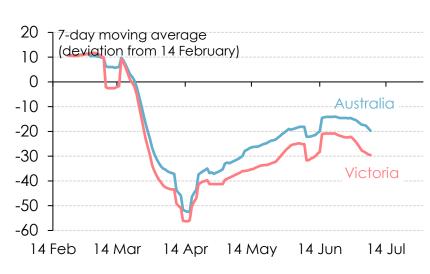
### Time spent driving



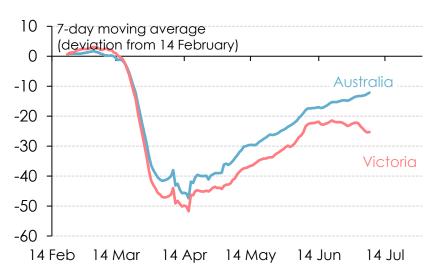
### Time spent in transit



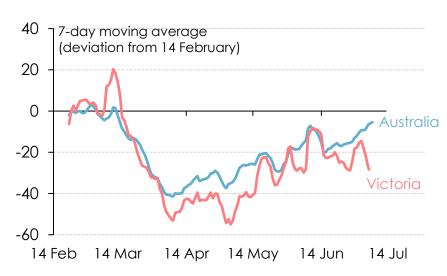
### Time spent in work places



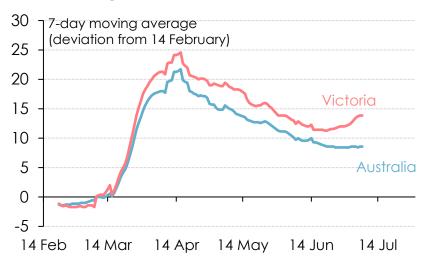
### Time spent shopping



### Time spent In parks



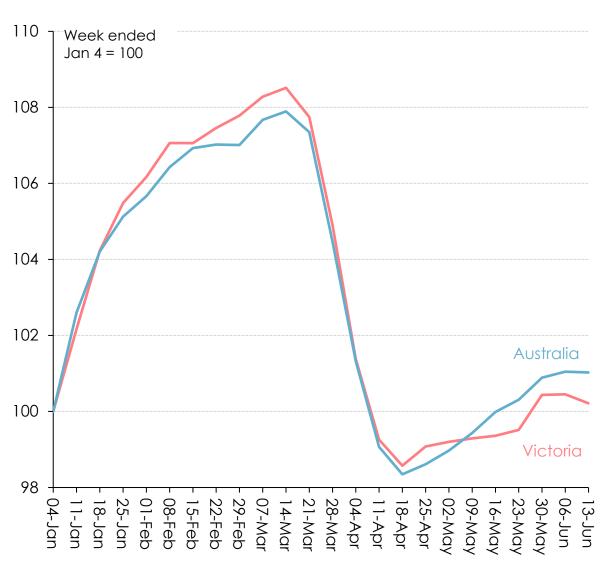
#### Time spent at home



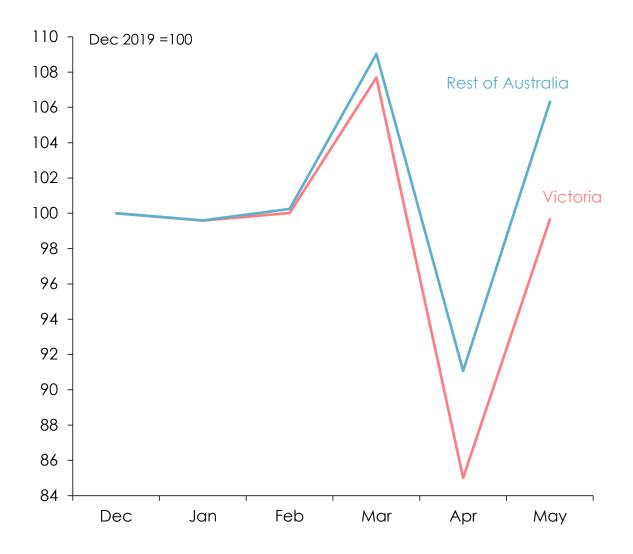


## Victoria's recovery in both employment and spending has lagged that of the rest of Australia

### Payroll jobs, Victoria and Australia



### Retail sales, Victoria and the rest of Australia

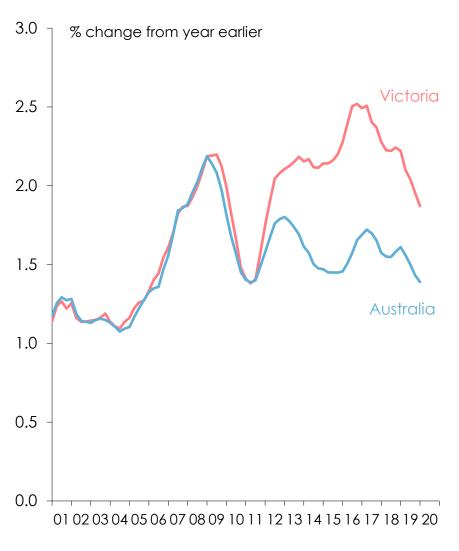




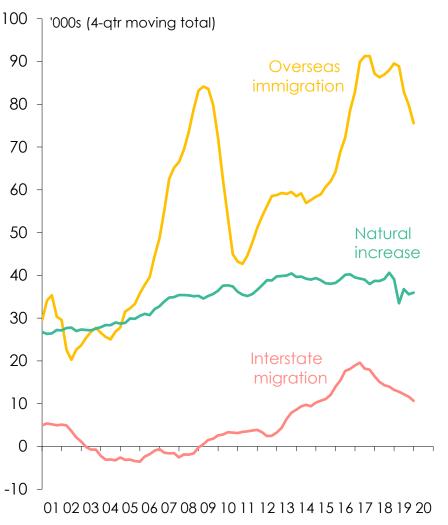


### Over the past decade Victoria's economy has become increasingly dependent on population growth, through immigration ...

### Population growth - Victoria vs national average



### Sources of Victoria's population growth



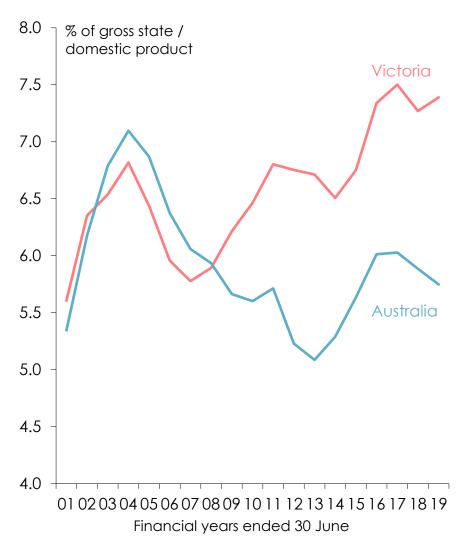
### Per capita economic growth -Victoria vs national average



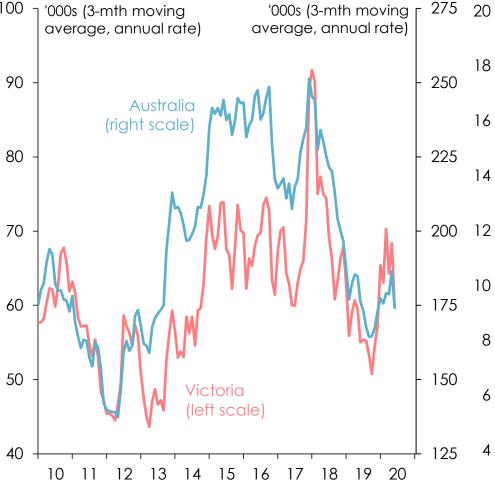


## ... as a result of which, it has become much more vulnerable to a downturn in housing activity than the rest of Australia

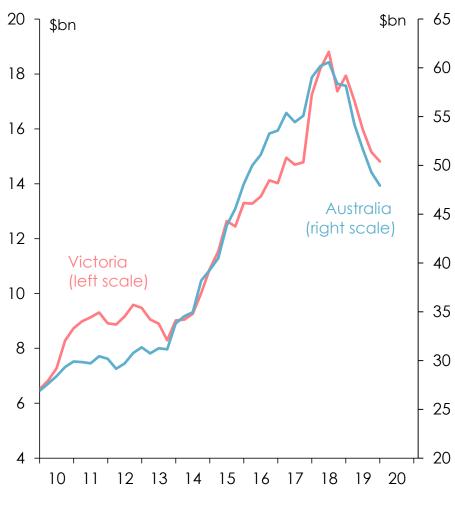
## Dwelling construction as a pc of gross product



### Residential building approvals



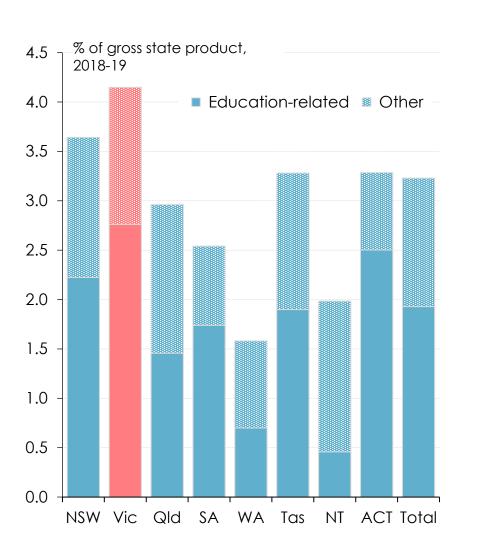
### 'Pipeline' of residential building work yet to be done



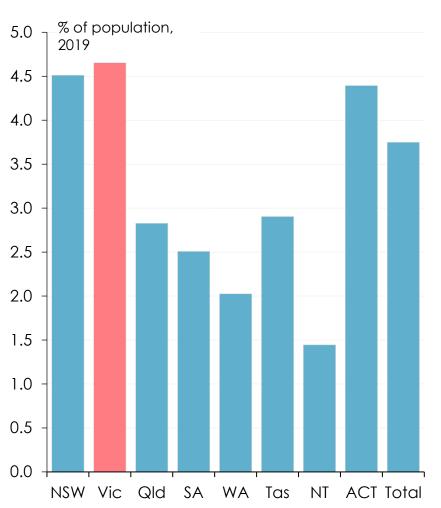


## Victoria is also more dependent on foreign tourists and students than any other state or territory

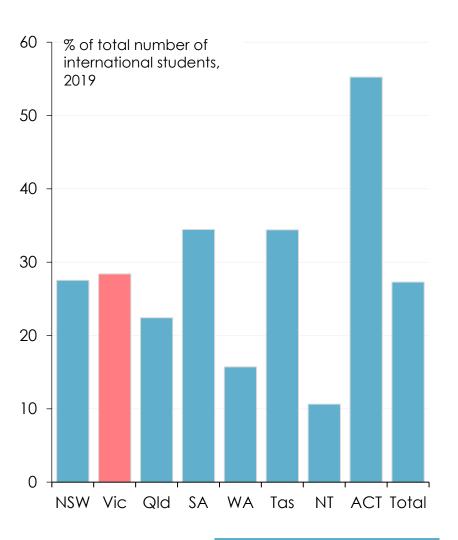
## Travel services exports as a pc of gross state product, 2018-19



## International students as a pc of population, 2019



### Chinese students as a pc of total international students, 2019





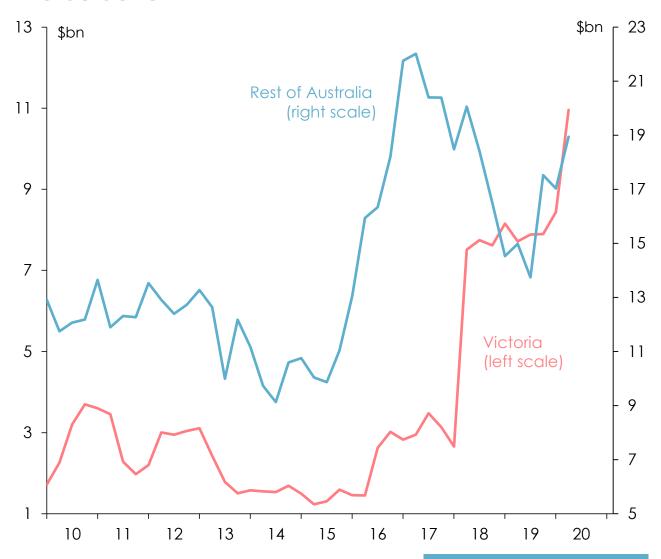


### Victoria does have a strong pipeline of infrastructure construction work

#### Infrastructure construction work done

#### 3.0 \$bn \$bn 8 2.5 7 2.0 Rest of Australia (right scale) 1.5 5 Victoria (left scale) 0.5 10 12 13 15 16 18 19 20 14

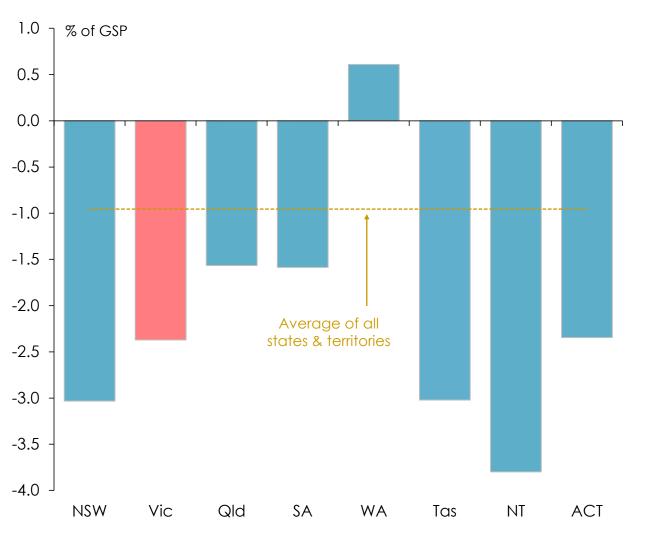
### 'Pipeline' of infrastructure construction work yet to be done



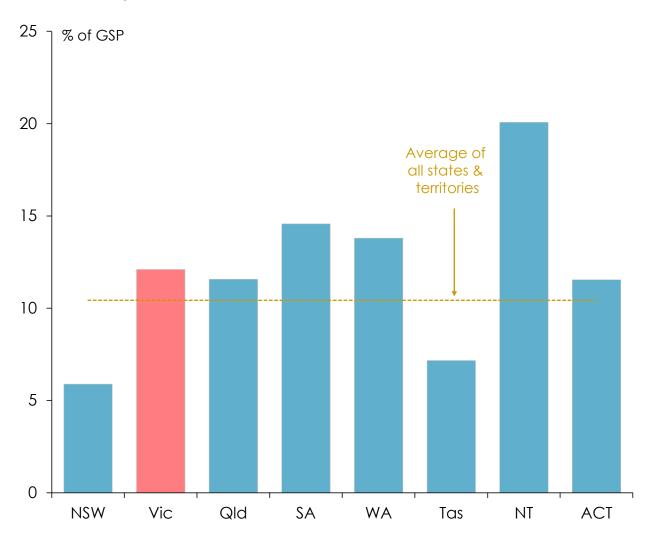
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# Victoria's state public sector was in a slightly weaker financial position going into the pandemic than the average for all states and territories

### Projected public non-financial sector cash balance, 2019-20



### Projected public non-financial sector net debt, 30<sup>th</sup> June 2020

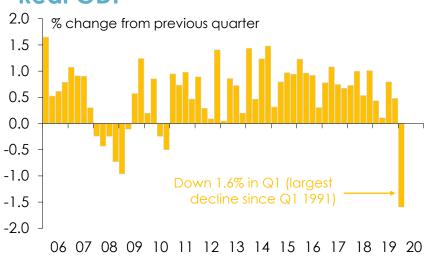




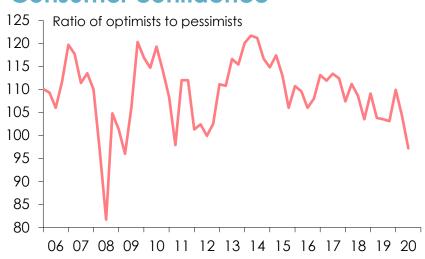
### **New Zealand**

## New Zealand has paid a high economic price for its success in (nearly) eradicating the Covid-19 virus

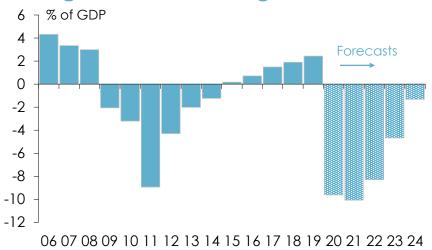
### **Real GDP**



#### Consumer confidence



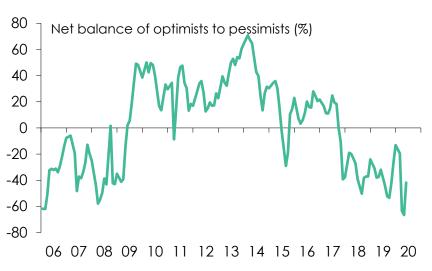
### NZ government budget balance



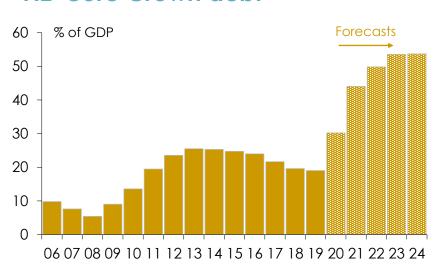
#### **Unemployment rate**



#### **Business confidence**



NZ 'core Crown debt'



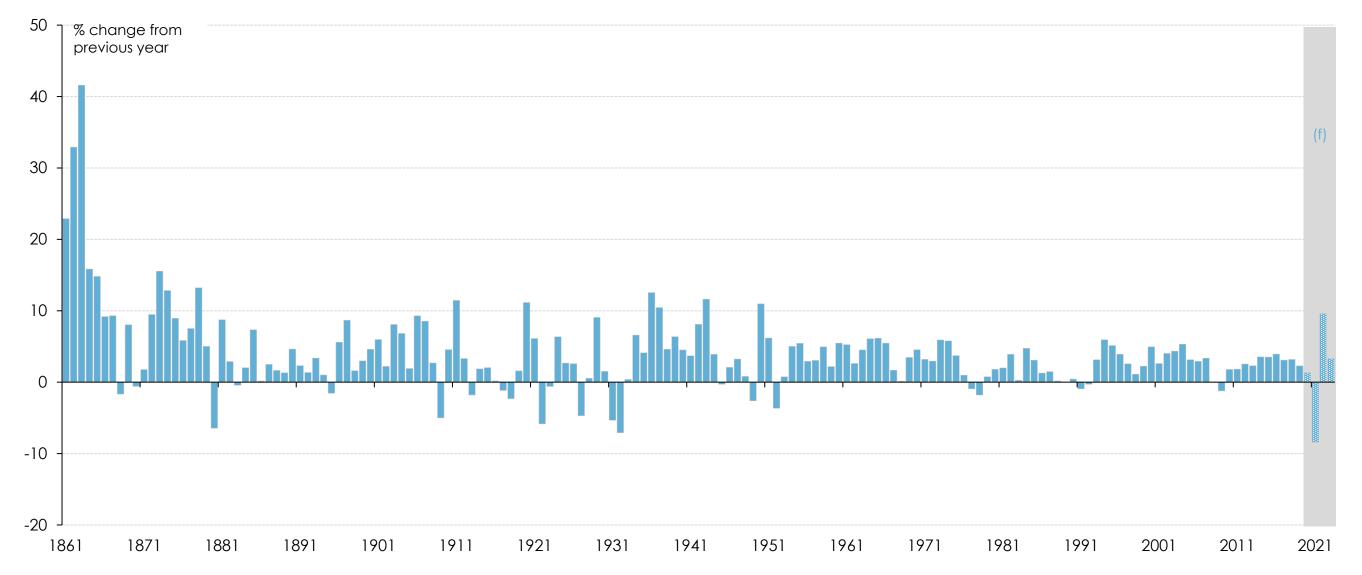
Note: New Zealand uses GDP(P) as its preferred measure of GDP. Unemployment rates are quarterly. The measure of the NZ Government budget balance is 'OBEGAL', operating balance excluding gains and losses (an accrual accounting measure). Net 'core Crown debt' excludes assets of the NZ Super Fund, student 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; Westpac-McDermott Miller; ANZ Bank; NZ Treasury Budget Economic and Fiscal Update 2020. Q2 GDP estimates will be released on 17<sup>th</sup> September.



# 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

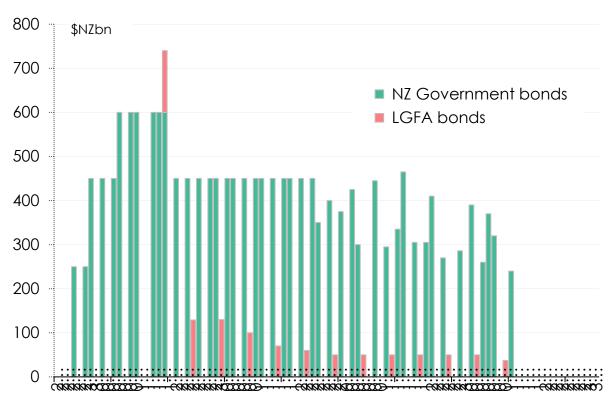
### Annual growth in New Zealand real GDP, 1861-2023



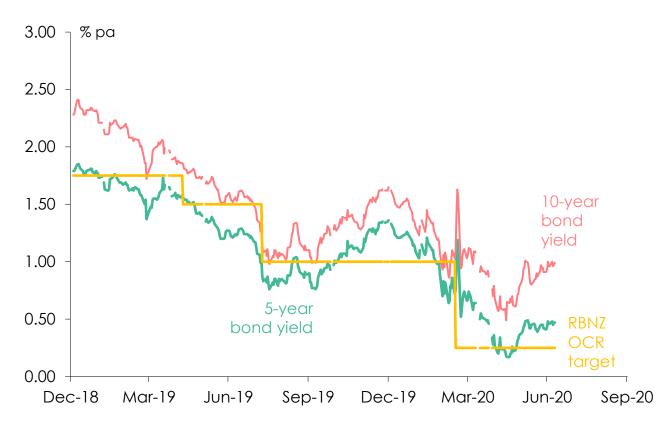


## The RBNZ's 'QE' program has been larger than the RBA's, but less successful in stabilizing bond yields

### RBNZ open market bond purchases



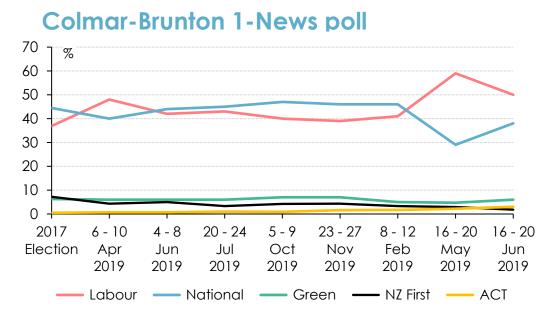
#### **New Zealand interest rates**



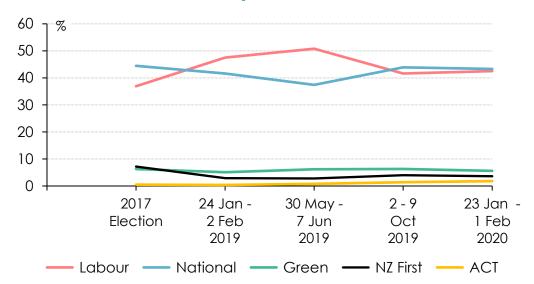
- □ RBNZ has adopted an ECB-style QE program, establishing a Large Scale Asset Program initially set at \$NZ33bn (10½% of GDP), since increased to \$60bn (19% of GDP)
- □ Since 25<sup>th</sup> March RBNZ bond purchases have amounted to \$NZ20 bn (6.4% of GDP) but have been less successful than the RBA's in stabilizing medium-term bond yields
- ☐ The RBNZ has asked banks to prepare operationally for the possibility of negative interest rates



## PM Jacinda Ardern's Labour Party seems likely to win a majority in its own right at the elections to be held on 19th September



#### 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: New Zealand Electoral Commission: Colmar Brunton: Reid Research.

- □ New Zealand uses a 'mixed member proportional' (MMP) system to determine the composition of its 120-seat Parliament
  - 71 members are elected from constituencies (of which 7 are reserved for Māori) on a 'first past the post' basis (as used for the British House of Commons)
  - the other 49 are chosen from party lists so as to ensure that each party has the same share of seats in the Parliament as its share of the national vote, provided that it has won at least 5% of the national vote or one constituency seat (similar to the system used for the German Bundestag)
  - each elector has 2 votes, one for his or her constituency and one for a party list
- 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)
- Labour's lead in opinion polls has narrowed since National changed its leader, but still looks likely to win 62 seats, enough to govern in its own right
  - The Greens appear likely to retain their place in Parliament but NZ First is well short of the 5% threshold

### Some possible longer-term consequences

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

An accelerated retreat from 'globalization'  – prompted by mistrust of international supply chains and desire for greater self-sufficiency in 'essential' products  – greater government control over movement of people and capital across international borders likely to persist
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 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)
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
Accelerated decline in the use of cash for transactions
Re-think of relationships with China
especially challenging for Australia given our unusual (for an 'advanced' economy) economic relationship with China
Erosion of respect for US leadership and competence
<ul> <li>unless Trump loses the November election and Biden can reverse the damage done to perceptions of US credibility, competence and commitment</li> </ul>

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

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