

The global financial crisis and its effects on the world, Australian and Tasmanian economies

Presentation to Tasmanian Economic Forum

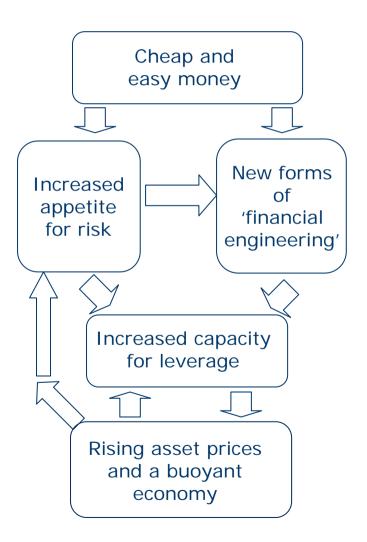
Hobart Function & Convention Centre 1st December 2008

Saul Eslake Chief Economist, ANZ

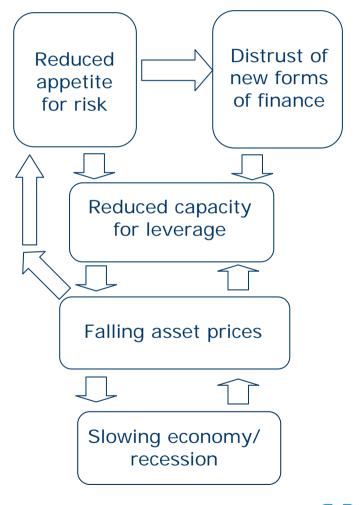


The current global financial crisis stems from the bursting of a 'credit market bubble'

From bubble ...



To bust

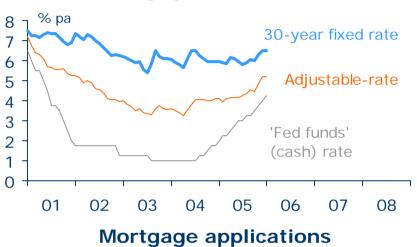




For a time, low interest rates and the explosion in 'sub-prime' lending created boom conditions in the US housing market

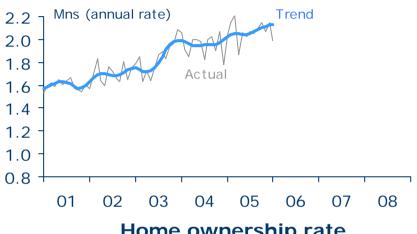
US housing market indicators up to 2005

Mortgage interest rates





Housing starts



Home ownership rate

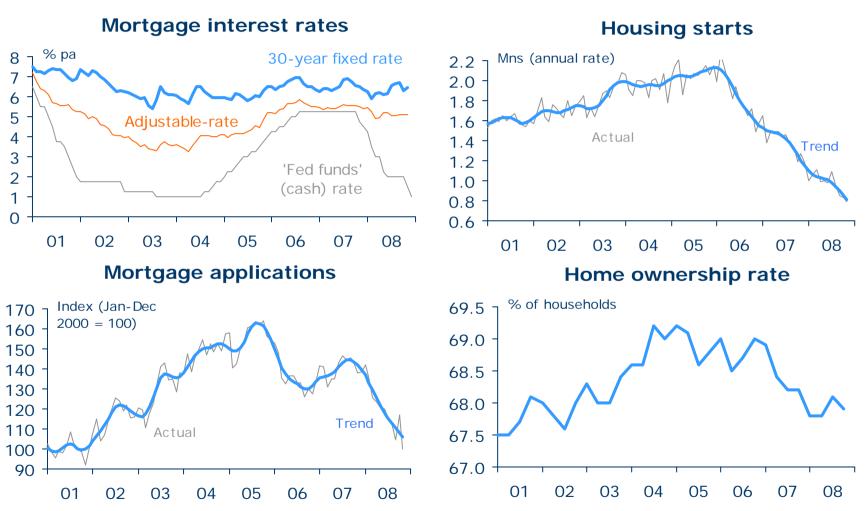


Sources: Mortgage Bankers' Association of America; US Commerce Department.



But eventually the bubble burst, as bubbles always do

US housing market indicators up to 2008



Sources: Mortgage Bankers' Association of America; US Commerce Department.



Excess supply of housing as a result of rising defaults and foreclosures is putting sustained downward pressure on prices

US housing market indicators



Sources: US National Association of Realtors; Commerce Department; S&P (the Case-Shiller index).



The US mortgage market meltdown has prompted a tidal wave of losses and write-downs by banks around the world

US mortgage delinquencies





Losses & write-downs announced since mid-2007

Country of origin	Total (US\$ bn)
US banks	418.4
European banks	247.9
Canadian banks	10.0
Asian and other banks	27.5
Total banks	706.6
Other institutions*	243.3

Capital raised by banks since mid-2007

Country of origin	Total (US\$ bn)
US	357.8
European	294.2
Canadian	19.0
Asian and other	34.8
Total	705.8
of which, from governments	305.3

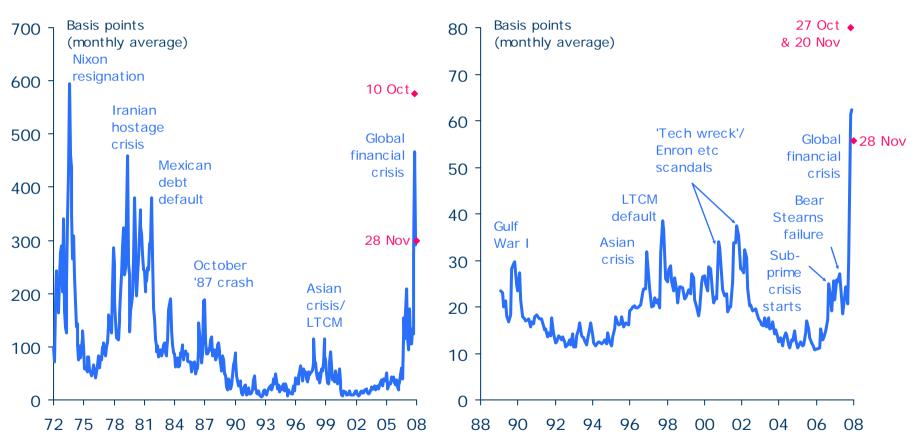
^{* &#}x27;Other institutions' include insurance companies, pension funds and hedge funds. *Sources:* US Mortgage Bankers' Association; IMF; Bloomberg; ANZ Economics & Markets Research.



Indicators of 'fear' in financial markets reached all-time highs in October and have remained close to those peaks in November

'TED' spread between 3-month inter-bank US\$ rates and 3-month US Treasury bill yields

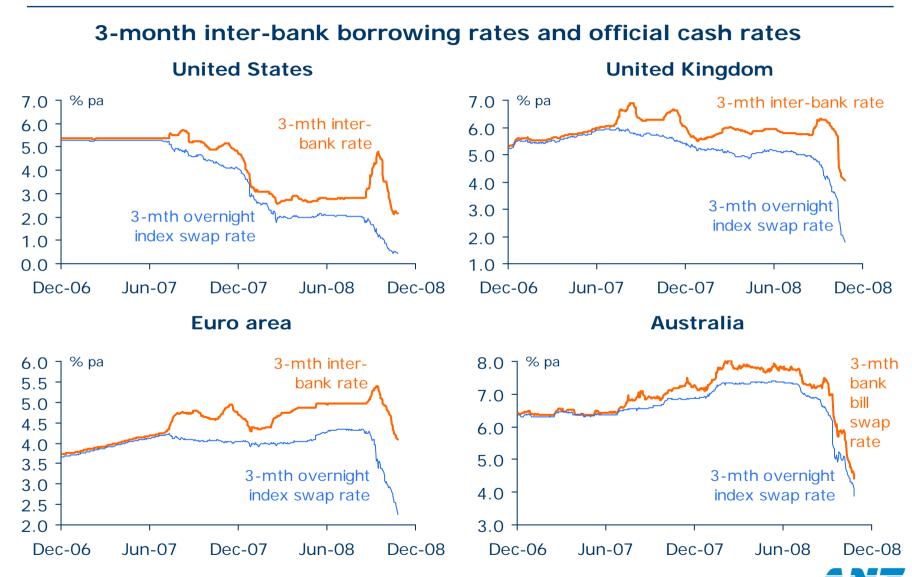
'VIX' index of implied volatility of the US S&P 500 share index



Sources: US Federal Reserve; Datastream; ANZ.



Measures announced by governments since mid-October are slowly working to ease financial market stress



Note: The 3-mth overnight index swap (OIS) rate shows market expectations of the average official cash rate over the following three months. *Source:* Bloomberg.

Banks in the US and the euro area are tightening credit standards

US banks Commercial & industrial loans



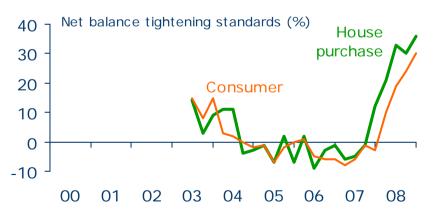
Mortgage and consumer loans



Euro area banks Loans to enterprises



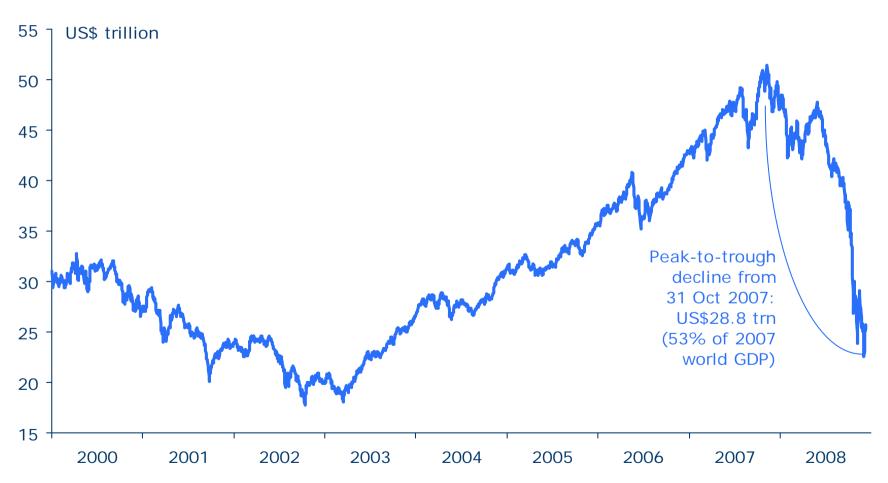
Mortgage and consumer loans



^{*} Weighted average of prime & sub-prime after June 2007 Sources: US Federal Reserve and European Central Bank surveys of loan officers.



Capitalization of world equity markets







Many indicators suggest that the US economy is heading for, or already in, recession

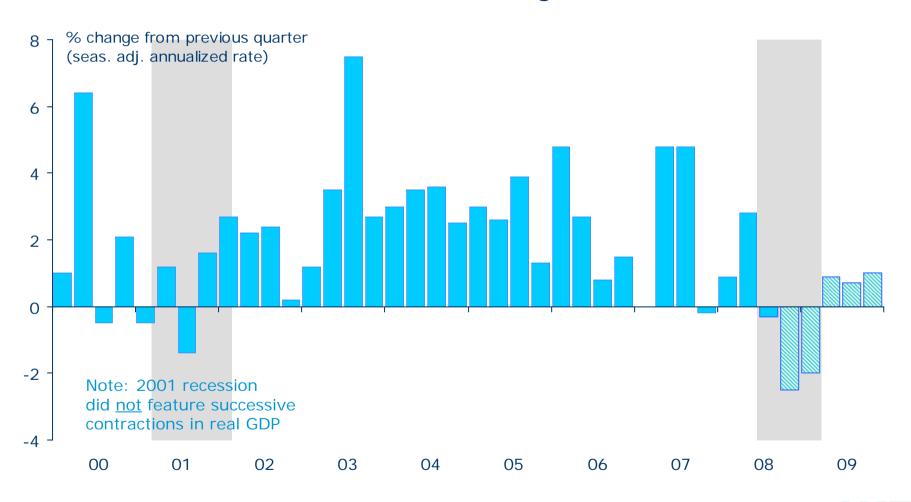
Selected US indicators



Note: shaded periods denote recessions as designated by National Bureau of Economic Research. *Sources:* The Conference Board; Bureau of Labor Statistics; Census Bureau.



US real GDP growth

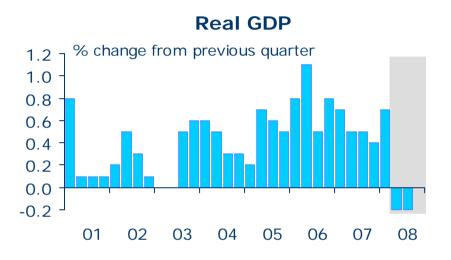


Source: US Bureau of Economic Analysis. Shaded area denotes 2001 recession as designated by National Bureau of Economic Research.

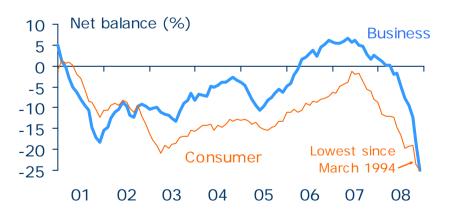


The euro area has also entered recession, although it may not be as severe as in the UK

Euro area economic indicators

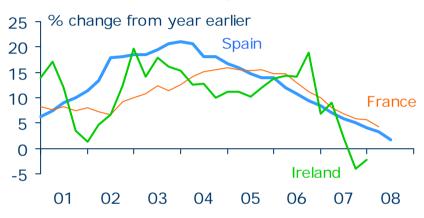


Business & consumer confidence

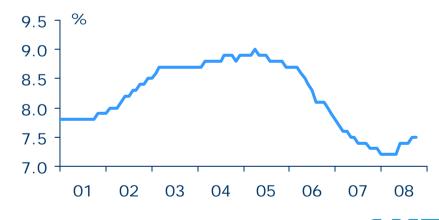


Sources: European Commission; Eurostat; Datastream.

House prices



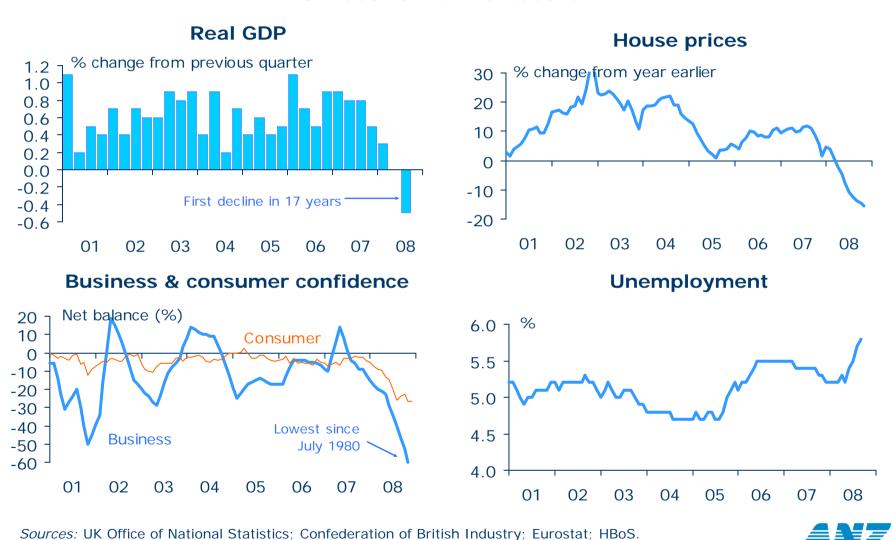
Unemployment



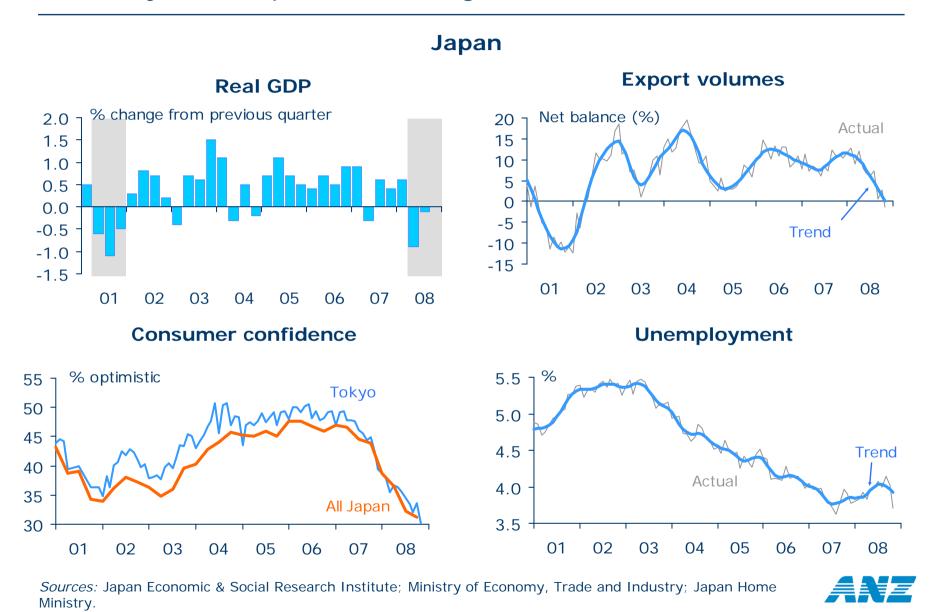


With a relatively large financial sector and house prices falling almost as much as the US, the UK will have a sharp recession

UK economic indicators

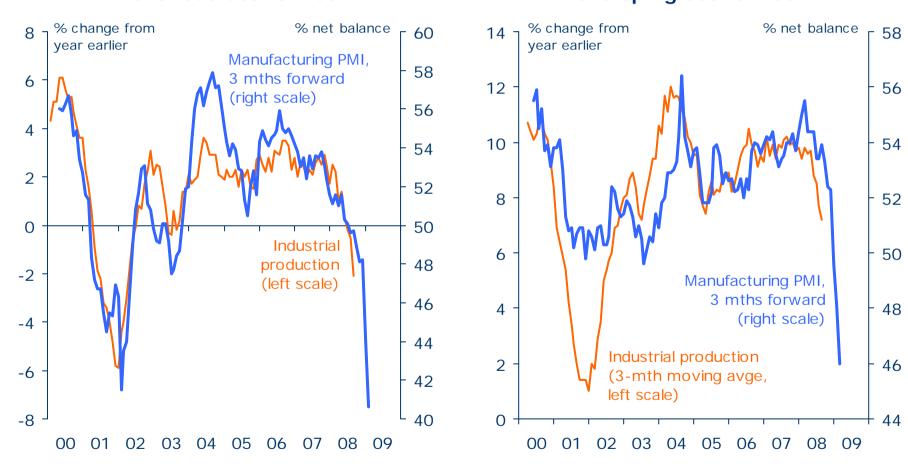


Japan's economy has enterted recession even though its banks have very little exposure to the global credit crisis



Industrial production is declining in Western countries and also set to slow sharply in developing and emerging economies

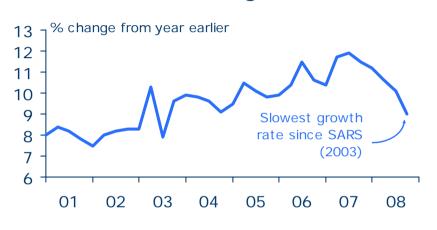
Manufacturing purchasing indices (PMIs) and industrial production Advanced economies Developing economies





Chinese economic indicators

Real GDP growth



Industrial production

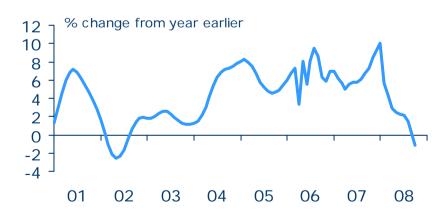


Source: China National Statistics Bureau; ANZ.

Exports



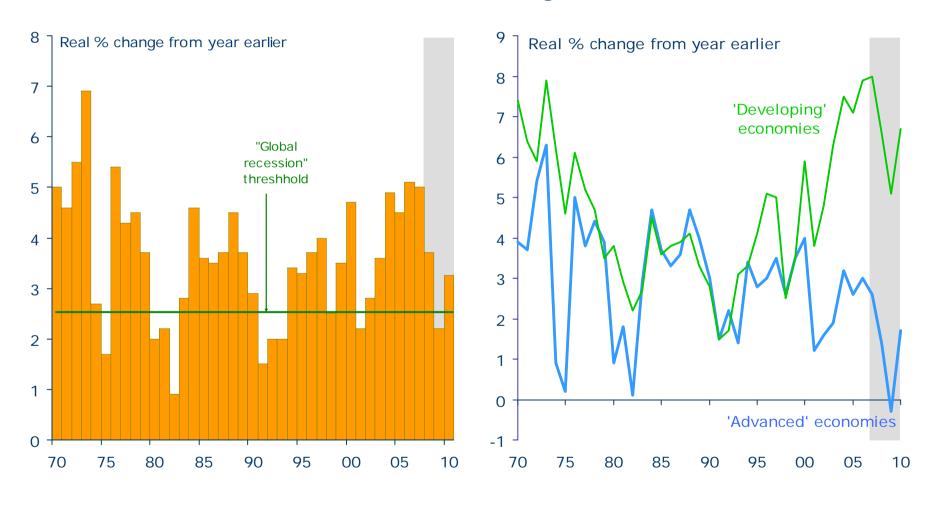
Real estate prices





Global growth will weaken sharply with 2009 looking like the worst year for 'advanced' economies since the 1930s

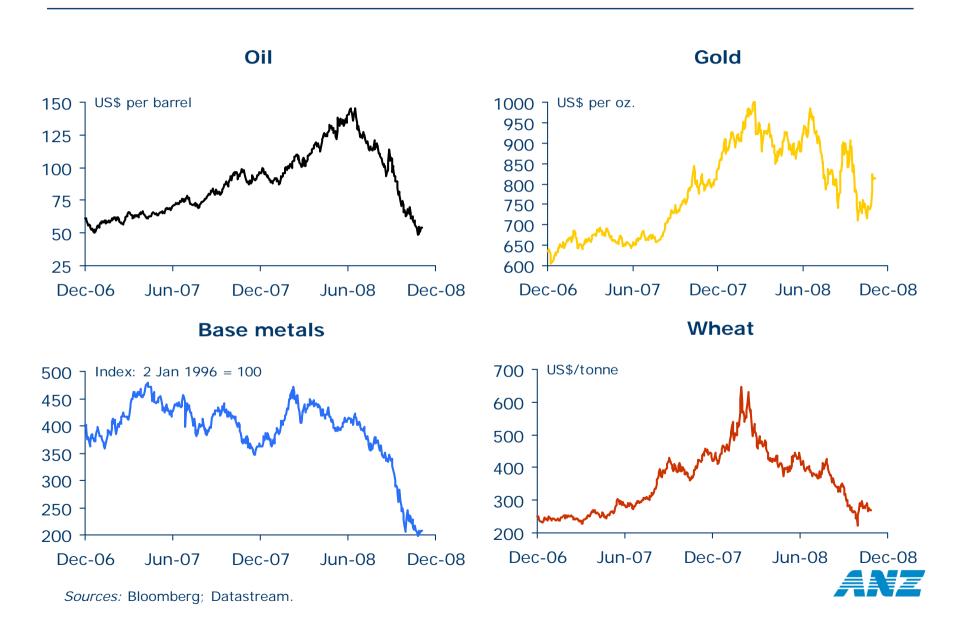
Global economic growth



Note: GDP is measured in US\$ at purchasing power parities. Source: IMF World Economic Outlook October 2008; ANZ Economics & Markets Research.



Commodity prices have fallen reflecting declining demand, the unwinding of speculative trades and a stronger US dollar



Spot prices for Australia's two largest commodity exports have fallen sharply in recent weeks and are likely to decline further

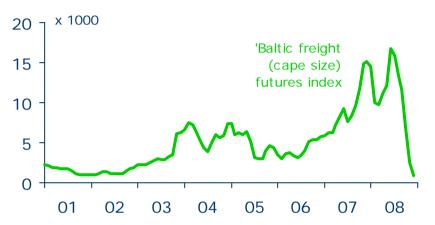
price

80

Coal prices



Bulk commodity shipping costs



Iron ore prices

05

06

04

0

01

02

03

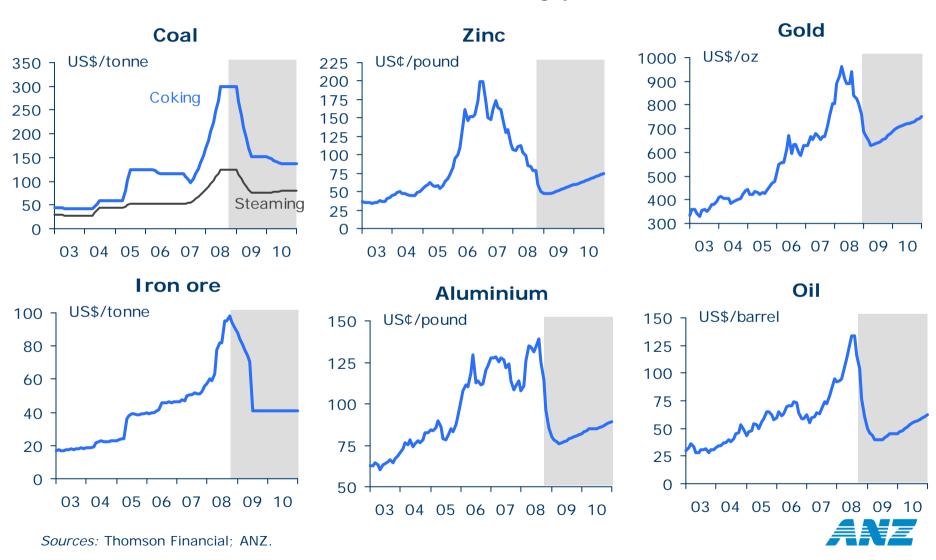


Sources: Datastream; Bloomberg; ANZ Economics & Markets Research.



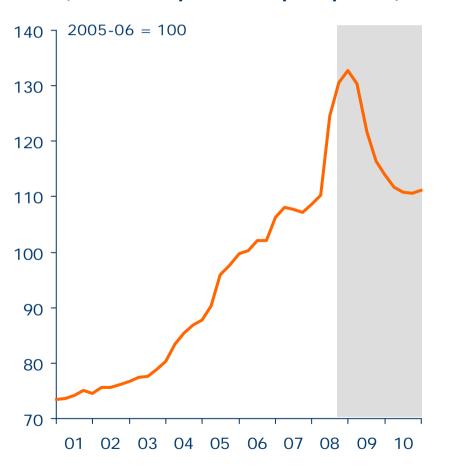
Commodity prices will fall further over the next 6-12 months though should remain strong by historical standards

Resource commodity prices

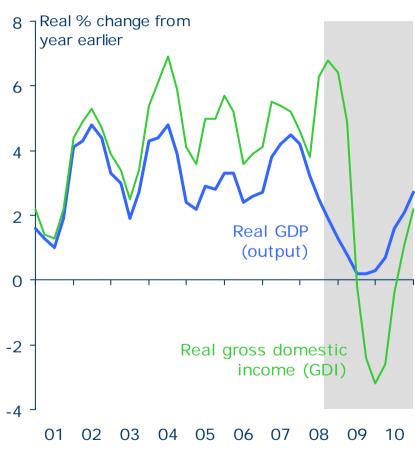


A sharp fall in commodity prices will reverse the contribution which rising terms of trade have made to Australia's income

Australia's terms of trade (ratio of export to import prices)



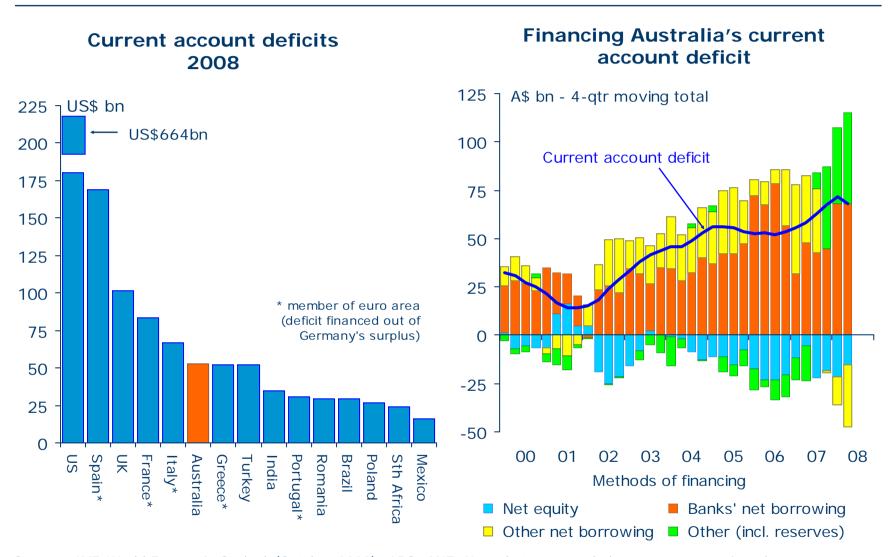
Real gross domestic income (GDI) and product (GDP)



Note: real gross domestic income (GDI) is real GDP adjusted for changes in the terms of trade; it measures the 'purchasing power' of the income associated with producing the GDP. *Sources:* ABS; ANZ.



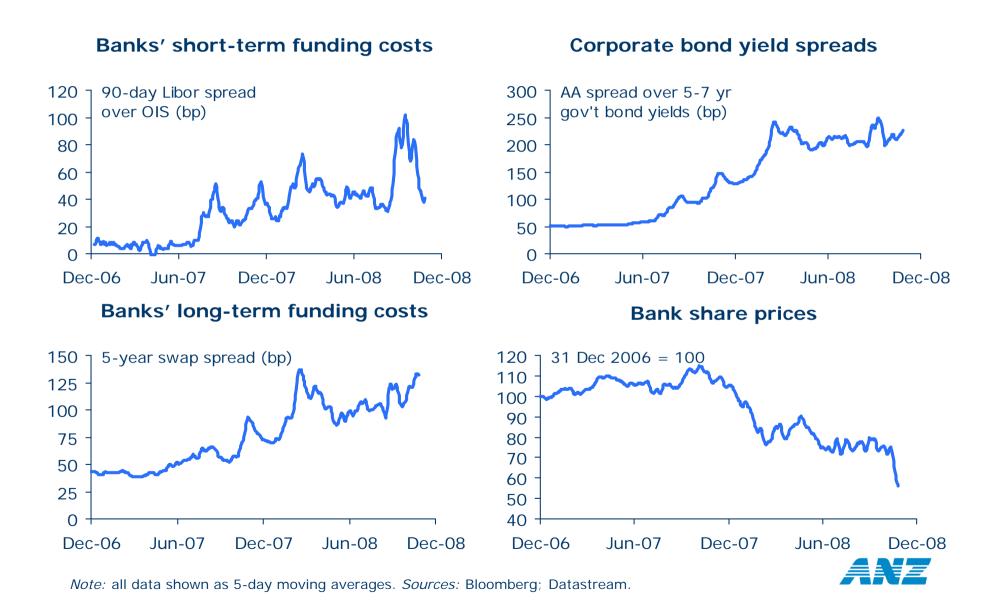
But Australia is exposed to the global credit crunch because of our large external deficit and the way we finance it



Sources: IMF World Economic Outlook (October 2008); ABS; ANZ. Note that apparently large movements in 'other (incl. reserves) in 2007-08 largely reflect the withdrawal of cash deposits at the RBA by the Future Fund; the RBA had invested these largely in US Treasuries, and they were reported as part of the RBA's official reserve assets.

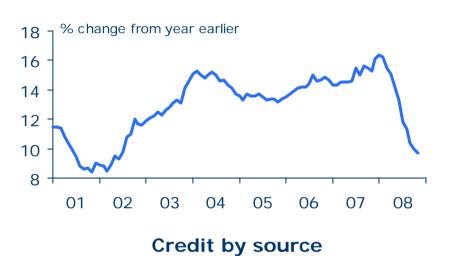


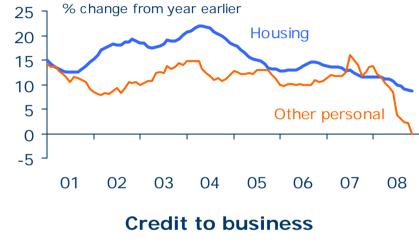
Australian financial markets have come under similar pressures to their overseas counterparts, though these are now easing



The 'credit crunch' plus the effect of higher interest rates on credit demand has led to a sharp slowdown in credit growth

Credit provided to the Australian private sector Total credit Credit to households









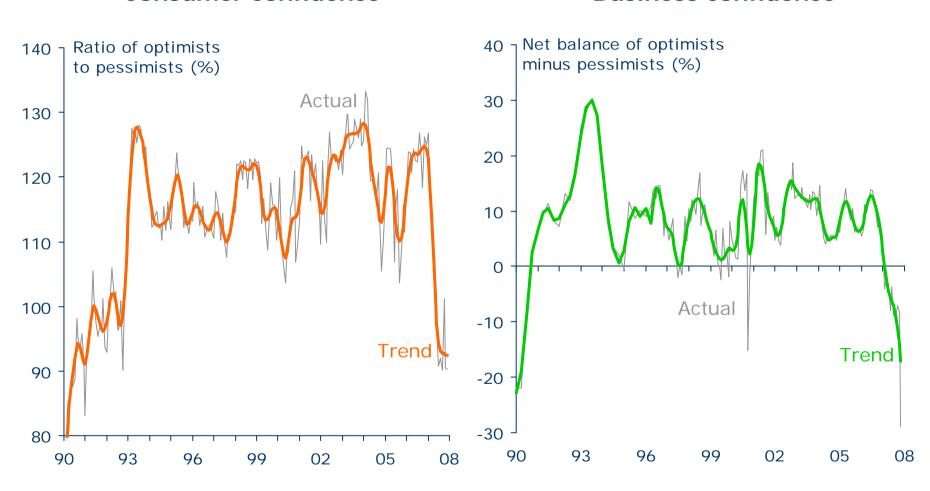
Source: Reserve Bank of Australia.



Consumer and business confidence have fallen sharply this year 26 although both now seem to be stabilizing (for now, anyway)

Consumer confidence

Business confidence

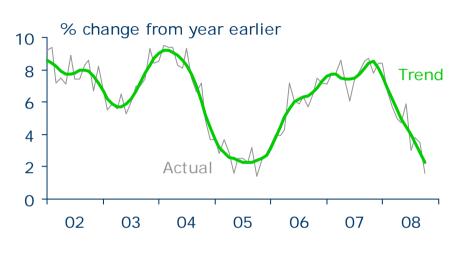


Sources: Roy Morgan Research; National Australia Bank; ANZ



Household spending and borrowing, and housing activity, have both slowed sharply over the past six months

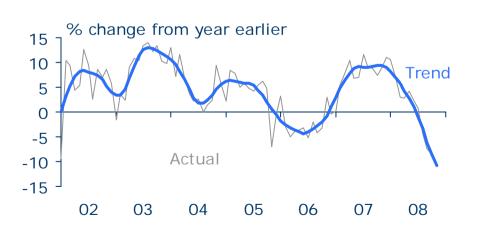
Retail sales



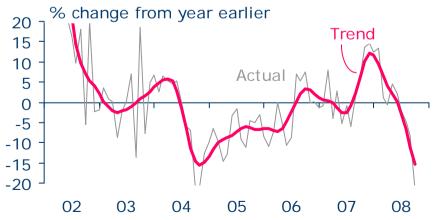
Housing finance commitments



Motor vehicle sales



Residential building approvals



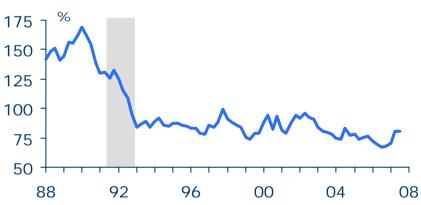
Sources: ABS; ANZ Economics & Markets Research.

The corporate sector is (in general) in a strong financial position and doesn't need to cut labour costs aggressively

Australian non-financial corporate sector finances

Interest cover ratio

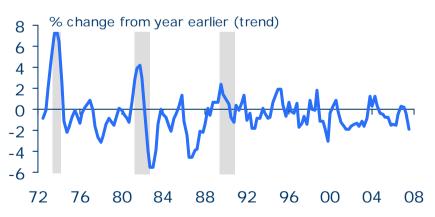




'Profit share' of national income



Real unit labour costs

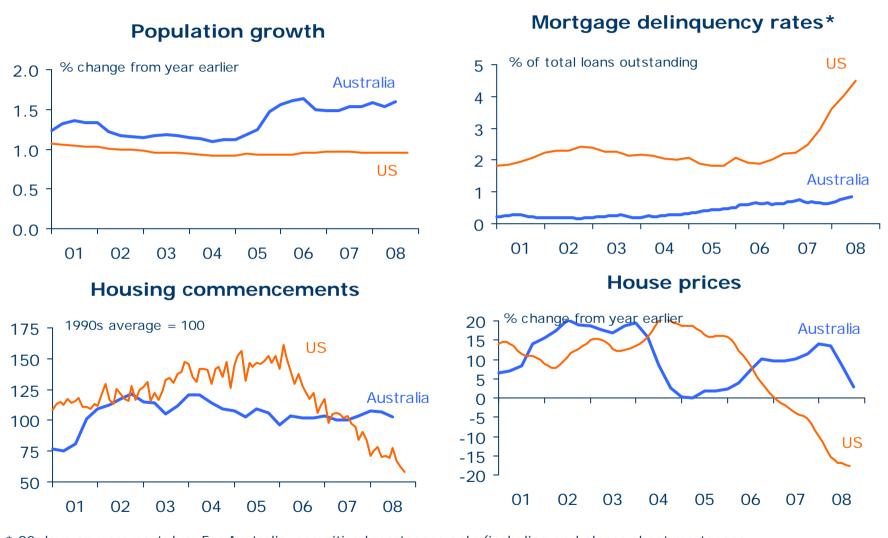


Note: Shaded areas denoted recessions.

Sources: Australian Bureau of Statistics; Reserve Bank of Australia; ANZ.



Australia's housing market has clearly softened but it won't become as dire as America's unless unemployment rises sharply



^{* 90} days or more past due. For Australia, securitized mortgages only (including on-balance sheet mortgages would result in a lower figure). *Sources:* ABS; US Commerce Department; S&P; Mortgage Bankers' Association of America.



The official cash rate will probably fall to a new low as the RBA seeks to counter the risk of recession

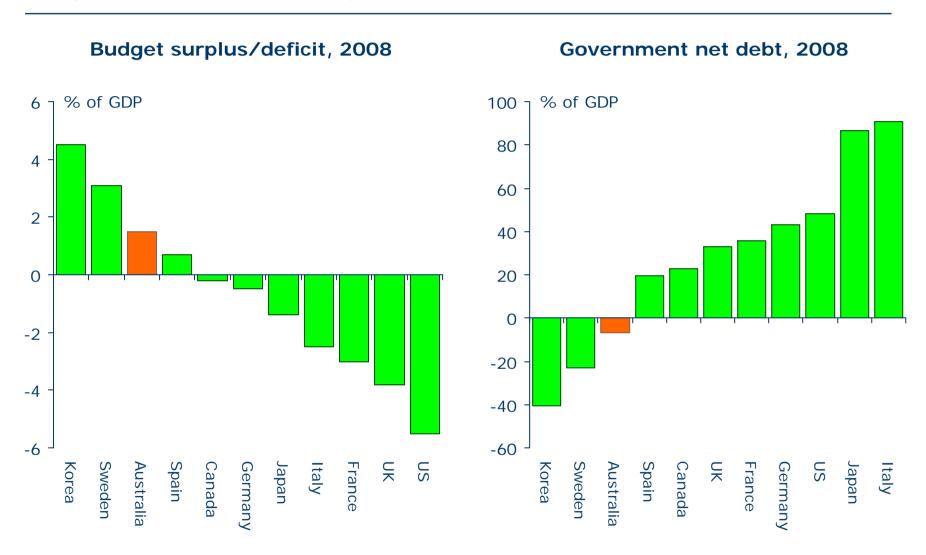
Short-term interest rates



Sources: Thomson Financial; ANZ.

- The Reserve Bank has now cut its official cash rate by 2% in just two months (it took almost three years for them to raise it by as much)
- The larger-than-expected movements in October and November underscore the RBA's <u>capacity</u> to respond decisively to deteriorating economic conditions and its <u>willingness</u> to do so
- Minutes of the November RBA Board meeting suggest that the RBA is aiming to get monetary policy settings at least to 'neutral' quickly
- The widening spread between the cash rate and the rates which borrowers are actually paying means 'neutral' probably implies a cash rate of ~4¾% rather than ~5½% before the current crisis began
- The RBA is likely to want to get monetary policy settings on the 'easy' side of 'neutral', implying the cash rate will fall below 4%

Australia is also very well-placed to use fiscal policy (tax cuts and government spending) to support economic activity

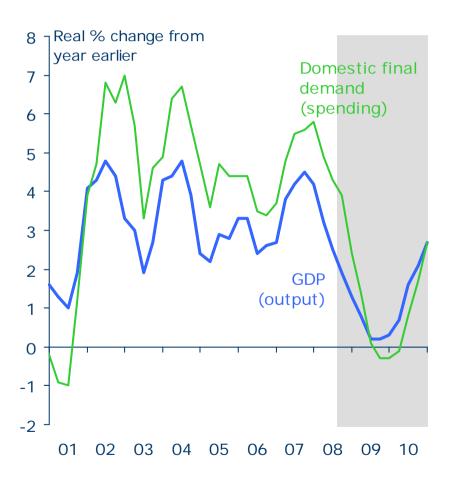


Note: data shown are for the 'general government' sector, ie including State and local governments but excluding government business enterprises. *Source:* OECD, *Economic Outlook* 83, June 2008 (note, forecasts released with Economic Outlook 84 in November will not be made available until mid-December).

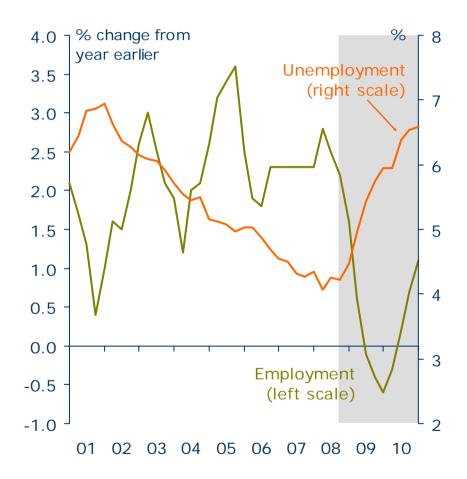


The economy will slow sharply (although it may not contract outright) and unemployment will rise by around 2½ pc points

Spending and output



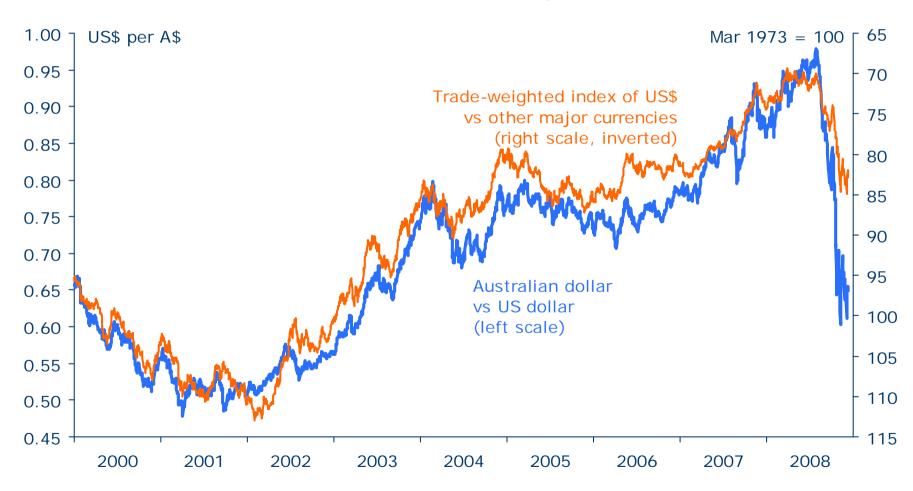
Employment and unemployment







A\$ vs US\$ and US\$ vs other major currencies



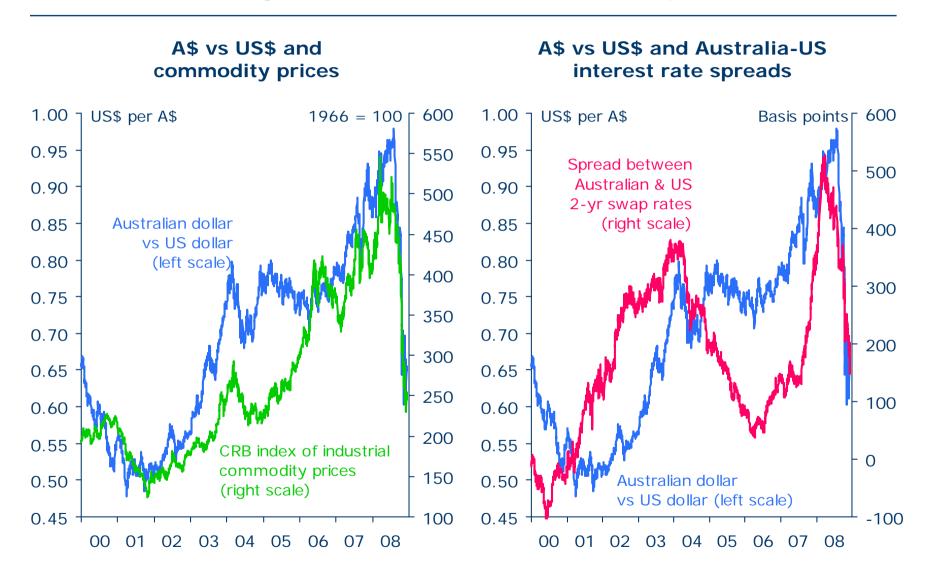


The US\$ has risen against most currencies (other than the yen) since July

US dollar vs euro **US dollar vs British pound** US\$ per € (inverted scale) US\$ per £ (inverted scale) 1.20 1.40 1.50 1.30 1.60 1.70 1.40 1.80 1.90 1.50 2.00 2.10 1.60 -Dec-06 Jun-07 Dec-07 Jun-08 Dec-08 Dec-06 Jun-07 Dec-07 Jun-08 Dec-08 US dollar vs yuan US dollar vs yen 8.00 Yuan per US\$ 125 ¬ 7.75 120 12-mth NDF 7.50 115 (non-deliverable forward) rate 7.25 110 7.00 105 6.75 100 6.50 95 6.25 90 -Jun-08 Dec-06 Jun-07 Dec-07 Dec-08 Dec-06 Jun-07 Dec-07 Jun-08 Dec-08

Source: Datastream.

The A\$'s decline also reflects plummeting commodity prices and the narrowing Australian-US interest rate spread





The Australian dollar is likely to remain weak against the US\$ and yen over the next two years

Australian dollar vs US dollar



Australian dollar vs Euro



Australian dollar vs Japanese yen



Australian dollar vs British pound



Sources: ABS; ANZ Economics & Markets Research.

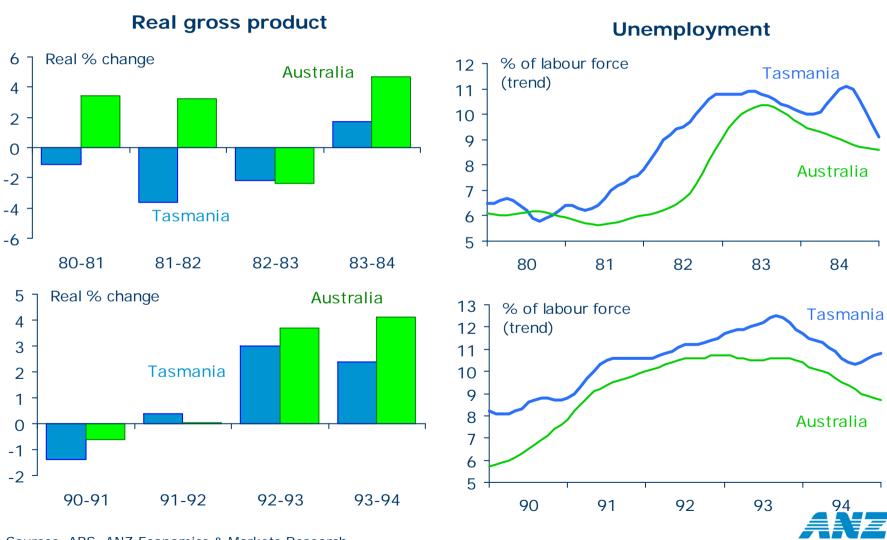
Will Tasmania again fare worse than Australia as a whole during the coming downturn, as it has in previous recessions?

- Recessions have typically hit Tasmania more severely than the national economy, with real output contracting by a larger proportion and unemployment reaching higher peaks in Tasmania than for Australia as a whole
- Some of the reasons why Tasmania has fared worse in previous recessions remain relevant today
 - an above-average proportion of Tasmanians are employed in low-skill occupations (and are thus more likely to lose their jobs in a downturn)
 - with few 'head offices' located in Tasmania, Tasmanians are more likely to be casualties of retrenchments ordered by mainland or overseas head offices
- However there are also some reasons to believe Tasmania may be less vulnerable to some of the recession-inducing factors shaping the outlook for 2009
- Traditionally 'cyclical' industries (manufacturing, mining and construction)
 now represent a below-average share of Tasmania's economy, compared with
 a well-above-average share at the time of previous recessions
- Sectors which are likely to be particularly hard-hit by the specific recessioninducing factors shaping the outlook for 2009 are 'under-represented' in the Tasmanian economy
- Tasmanian households are less exposed to the collapse in asset values
- For the first time since at least the 1970s, Tasmania is entering a national downturn with a below-average unemployment rate



Tasmania has traditionally fared worse than the national economy during recessions

Tasmania and Australia during recessions

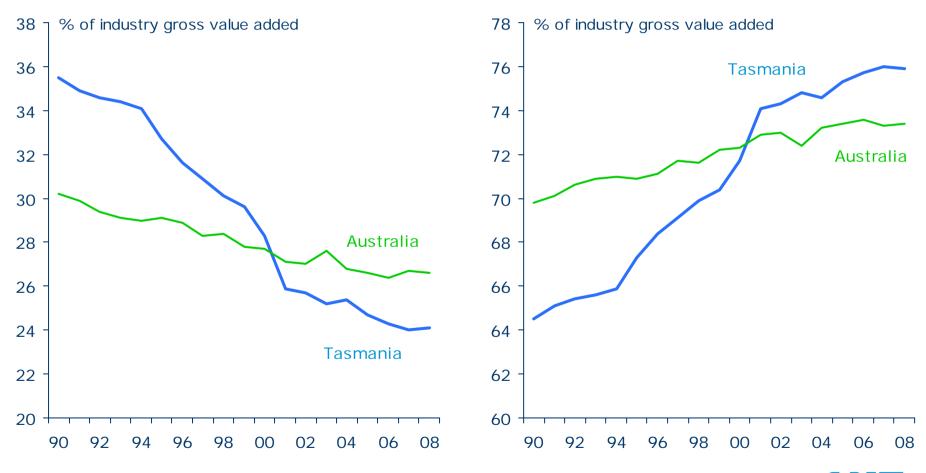


Sources: ABS, ANZ Economics & Markets Research.

However it is possible that Tasmania may fare <u>relatively</u> better than the national economy during the coming downturn

- Tasmania has a below-average proportion of the sectors which are likely to be hardest hit by the coming national downturn (including mining, construction, finance & insurance, and property & business services)
- Conversely, some of the sectors which will benefit most from the depreciation
 of the A\$ (including agriculture and manufacturing) or from expansionary fiscal
 policy (including health and education) are 'over-represented' (by comparison
 with the national economy) in Tasmania
- Although the global recession will adversely affect international visitor arrivals to Australia, Tasmania's tourism sector may benefit from any increased preference on the part of Australians to 'holiday at home'
- Tasmanian households are arguably less exposed to the 'credit crunch'
 - interest payments absorbed 9.9% of Tasmanian household disposable income in 2007-08, compared with 13.1% of national household disposable income
 - 53.7% of Tasmanian home-owners own their homes outright, compared with 49.5% of all Australians
 - the average Tasmanian mortgage outstanding (in 2005-06) was \$30,000, compared with a national average of \$50,000
 - although conversely reductions in interest rates will be of less benefit to Tasmania
- Tasmanian households are less exposed to the collapse in asset values
 - Tasmanian households directly owned only \$9,500 (on average) of shares in 2005-06, compared with the national average of \$22,700
 - Tasmanian households had superannuation balances averaging \$65,100 in 2005-06, compared with the national average of \$84,500

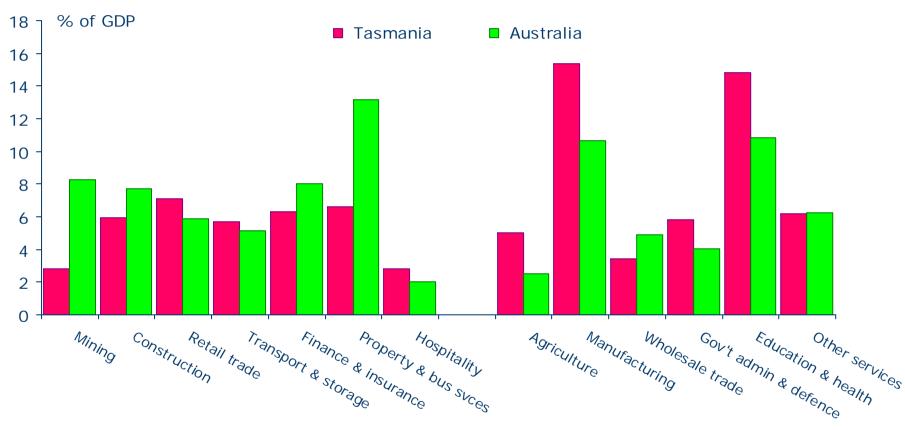
Cyclical sensitivity of the Tasmanian and national economies 'Cyclical' sectors 'Non-cyclical' sectors



Note: 'Cyclical' sectors are manufacturing, mining and construction. Industry gross value added excludes that attributed to 'ownership of dwellings'. *Sources:* ABS, ANZ Economics & Markets Research.



Industry shares of gross value added, 2007-08



Sectors likely to do worse than average

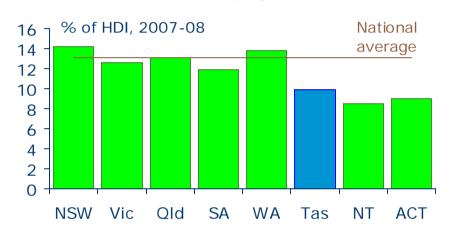
Sectors likely to do better than average

Note: 'Hospitality' comprises accommodation, cafes and restaurants; 'Other services' includes communications, cultural & recreational services, and personal & other services. *Sources:* ABS, ANZ Economics & Markets Research.



collapse in asset values than their mainland counterparts

Interest payments



Mean direct share holdings



Mean mortgage outstanding



Mean superannuation balance





Sources: ABS, State Accounts 2007-08; Household Wealth and Wealth Distribution 2005-06.

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