Economics, interest rates and currencies chart pack

Charts prepared for ANZ Senior Management

25th May 2007

www.anz/com/go/economics

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Summary of key economic forecasts

	2006	2007	2008
Oil prices (US\$ per barrel WTI)	66	61	63
World GDP growth (%)	5.2	4 3/ ₄ r	43/4r
Australian GDP growth (%)	2.7	3	33/4r
Australian unemployment rate (%) ^a	4.6	41/2	41/2r
Australian CPI inflation (%) ^a	3.3	21⁄4r	3 ^r
Aust. current account deficit (% GDP)	5.4	51/2	51/2
Australian credit growth (%) ^a	14.4	131⁄2	11
NZ GDP growth (%)	1.5	21⁄4r	11/2
NZ unemployment rate (%) ^a	3.7	4	41/2
NZ CPI inflation (%) ^a	2.6	21/2	3
NZ current account deficit (% GDP)	9	7 ³ / ₄	73/4
NZ private sector credit growth (%) ^a	13.2	111/4	9

^a Year to December quarter; all other forecasts are calendar year-average. ^r Revised since last quarter; see slide 4.



Summary of key market forecasts

	May 2007	Dec 2007	Jun 2008	Dec 2008	Dec 2009
US Fed funds rate (% pa)	5.25	4.75	4.75	5.25	5.25
US 10-year bond yield (% pa)	4.85	4.75	5.15	5.30	5.25
€ - US\$	1.36	1.37	1.31	1.27	1.20
US\$ - ¥	119	117	114	111	110
US\$ - Yuan	7.67	7.45	7.40	7.35	7.75
RBA cash rate (% pa)	6.25	6.50	6.50	6.50	6.75
Australian 10-year bond (% pa)	5.90	6.10	6.30	6.50	6.65
A\$ - US\$	0.83	0.81	0.79	0.75	0.69
RBNZ cash rate (% pa)	7.75	7.75	7.75 ^r	7.25 ^r	6.00 ^r
NZ 10-year bond yield (% pa)	6.20	6.30 ^r	6.10 ^r	6.00	6.20
NZ\$ - US\$	0.73	0.64	0.61	0.57	0.55
A\$ - NZ\$	1.11	1.26	1.30	1.31	1.25

^{*} actual r revised



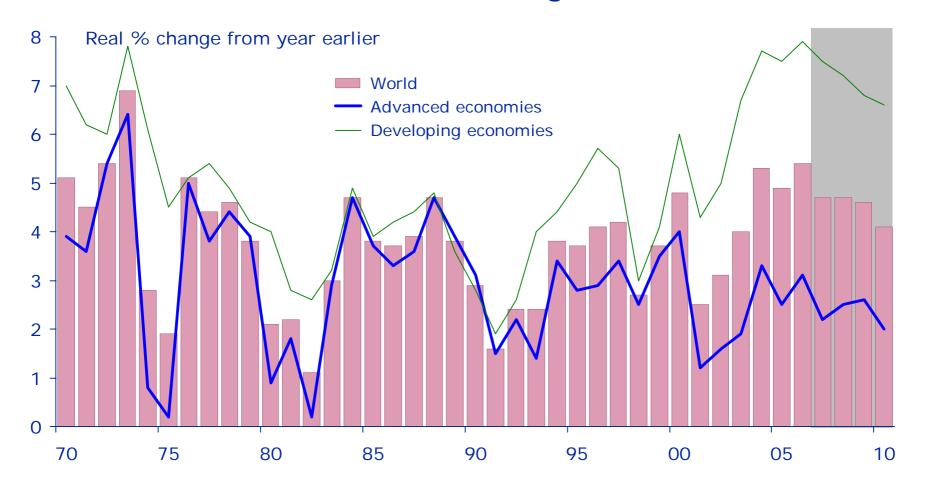
Key forecast themes

- World economy continues to grow at an above-trend pace
 - US slowdown (largely driven by housing sector weakness) largely offset by faster growth elsewhere
- Fed will cut US rates twice, late this year and early 2008, while ECB will raise rates twice more and BoJ will also resume raising rates later this year
 - however market sentiment will swing towards expectations of rising US rates in 2008 as US economy picks up again
 - so US dollar will strengthen gradually during 2008
- Australian economy will accelerate later this year and into 2008
 - partly reflecting rebound in rural production (with assumed breaking of drought) and continuing pick-up in export volumes
 - but also driven by fiscal stimulus in Budget
- RBA 'on hold' until after this year's election
 - lower-than-expected inflation outcomes in past two quarters have lowered the risk of inflation exceeding the target in 2007
- NZ economy will slow again in 2008
 - as mortgages progressively reset at higher rates
- No RBNZ easing before Dec 2008
 - NZ\$ to fall during 2008 in anticipation of large rate cuts in 2009



World economy in what is likely to be its longest period of above-trend growth in over 30 years

Global economic growth



Note: GDP is measured in US\$ at purchasing power parities.

Source: IMF; Economics@ANZ.

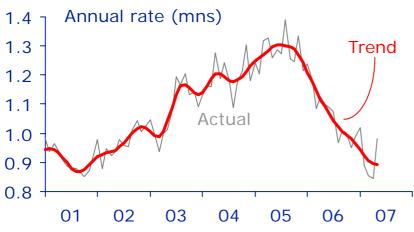


US house prices are no longer rising, and housing activity has turned down sharply

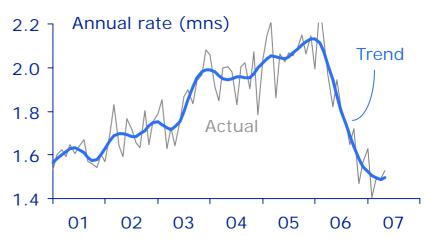
House prices



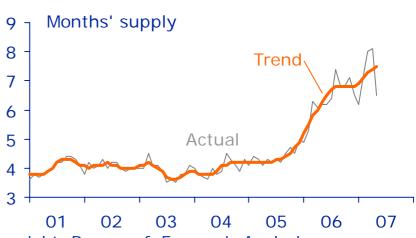
New home sales



Housing starts



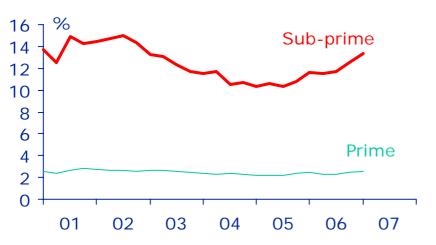
Unsold new housing stock



Sources: US Office of Federal Housing Enterprises Oversight; Bureau of Economic Analysis; National Realtors' Association.

Problems in the sub-prime mortgage market have not spilled over into other segments

Mortgage delinquencies

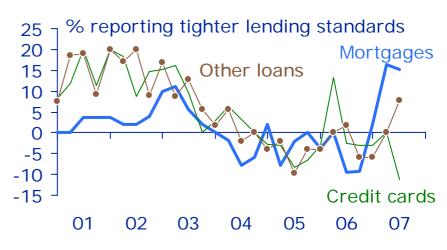


Mortgage purchase applications

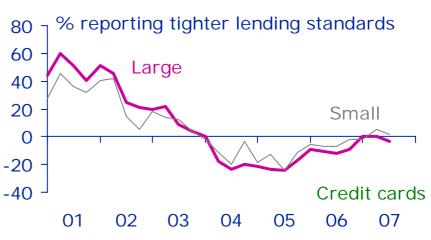


Sources: Mortgage Bankers' Association; Federal Reserve Senior Lending Officers Survey.

Consumer lending standards

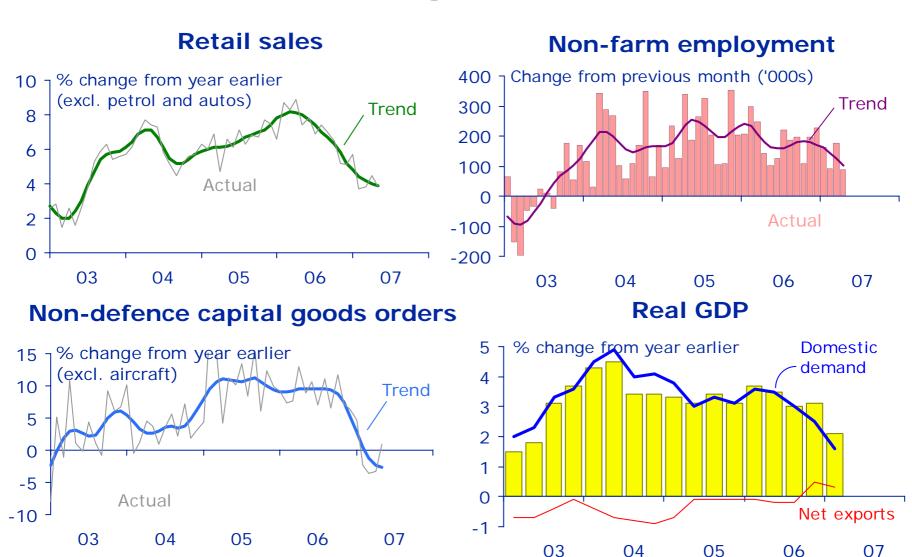


Business lending standards





The housing downturn is leading to a slowdown in the broader US economy

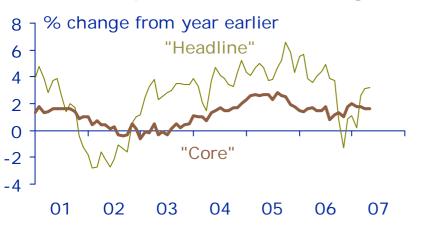


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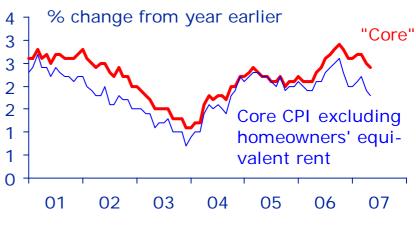
Sources: US Bureaux of Economic Analysis and Labor Statistics; US Commerce Department.

'Core' inflation is now beginning to come down although it's still above the Fed's 'comfort zone'

Producer prices – finished goods



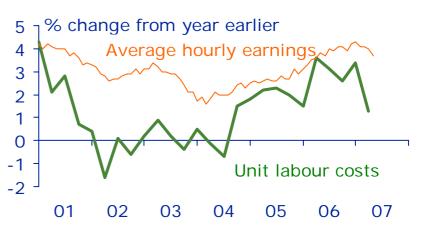
'Core' consumer prices



Consumption expenditure deflator



Labour costs



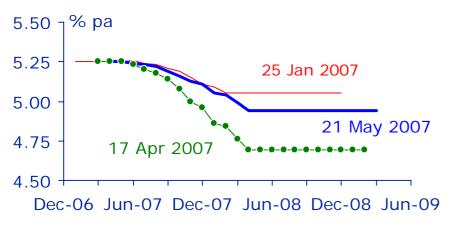
Note: 'core' means excluding food and energy. 'Homeowners' equivalent rent' is the rent notionally charged by owner-occupiers to themselves. economics@

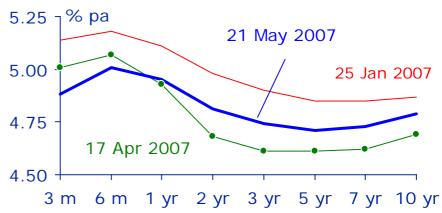
Sources: US Bureaux of Labor Statistics and Economic Analysis.

US financial markets have become slightly less optimistic about Fed rate cuts in recent weeks

'Fed funds' futures*

Treasury yield curve





3-mth Eurodollar futures



US fed funds rate



^{*} Strictly, 30-day futures contracts. Sources: Bloomberg; Datastream; Economics@ANZ.



To some extent weaker US growth is being offset by stronger growth in Europe and Japan

Euro area GDP growth



Euro area unemployment



Sources: Eurostat; Japan Economic & Social Research Institute and Home Ministry.

Japan GDP growth



Japan unemployment





Rising 'core' inflation prompting further ECB rate hikes while persistent deflation keeps BoJ on hold

Euro area consumer prices

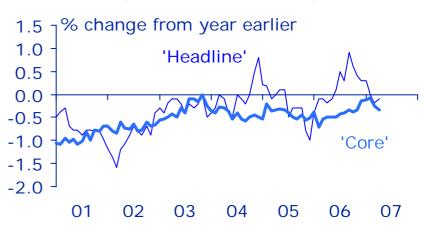


ECB refi rate

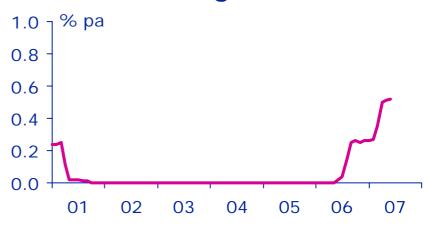


Note: 'core' inflation is excluding food and energy. *Sources:* Eurostat: OECD: ECB: BoJ.

Japan consumer prices



BoJ overnight call rate



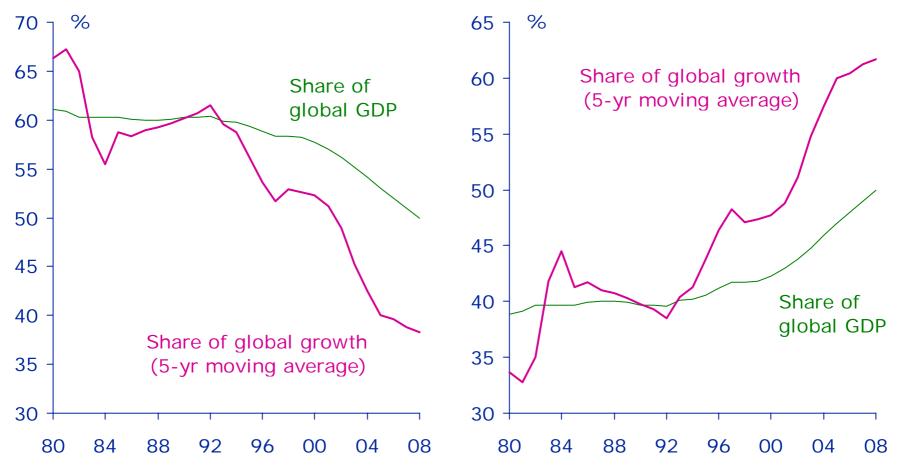


Above-trend global growth is largely being driven by developing countries

Advanced economies

Developing economies

economics



'Advanced' economies comprise the US, Western Europe, Japan, Canada, Australia, New Zealand, Korea, Taiwan, Hong Kong, Singapore and Israel.

Sources: IMF, World Economic Outlook; Economics@ANZ.

China's GDP growth accelerated in Q1 although rising inflation is largely due to higher food prices

Real GDP



Industrial production



Source: China National Statistics Bureau

Producer prices



Consumer prices





FX policy continues to fuel liquidity growth so that further PBoC tightening will be required

Increase in FX reserves

350 - US\$bn 300 - Change in FX 250 - reserves (over 12-mth interval) 150 - 100 -

50

Interest rates



Money supply and bank lending

04

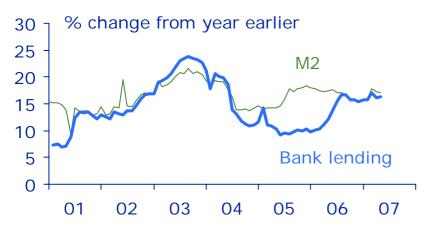
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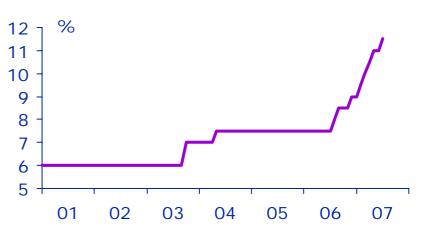
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Source: China National Statistics Bureau; People's Bank of China; Thomson Financial Datastream.

Trade surplus

(12-mth total)

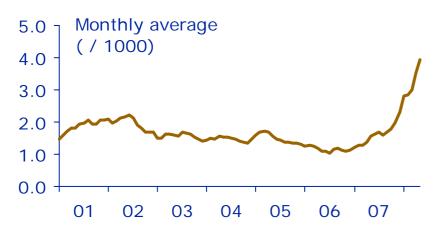
07

06



Chinese authorities are also concerned about bubble-like developments in the equity market

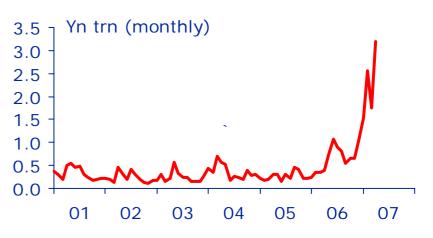
Shanghai composite index



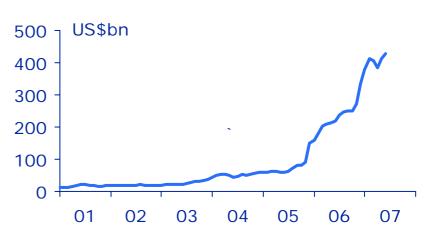
Shanghai p/e ratio



Shanghai turnover

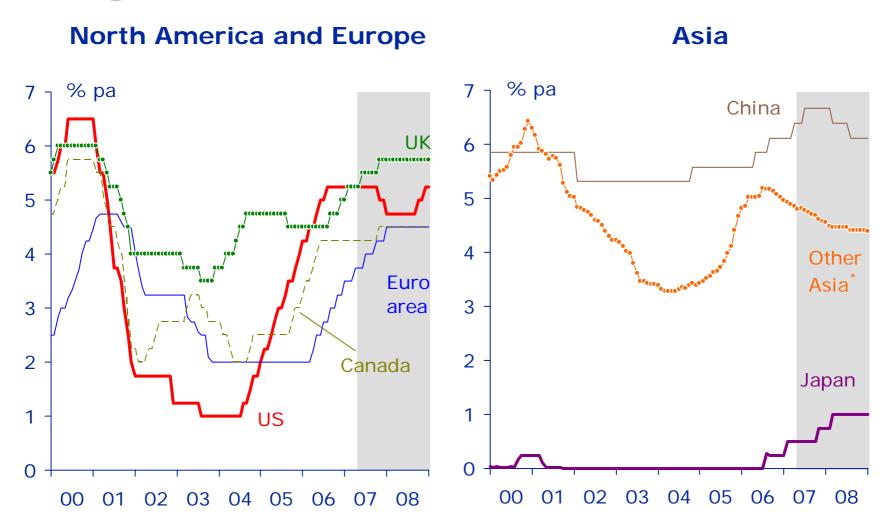


Shanghai market capitalization





Interest rates in major economies will move in divergent directions in 2007-08



^{*} Weighted average of Korea, Taiwan, Hong Kong, Indonesia, Thailand, Malaysia, Philippines and Singapore. *Source:* Thomson Financial Datastream.

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Once the US economy and Fed expectations start to turn (in 2008) the US\$ will regain lost ground

US\$ exchange rates



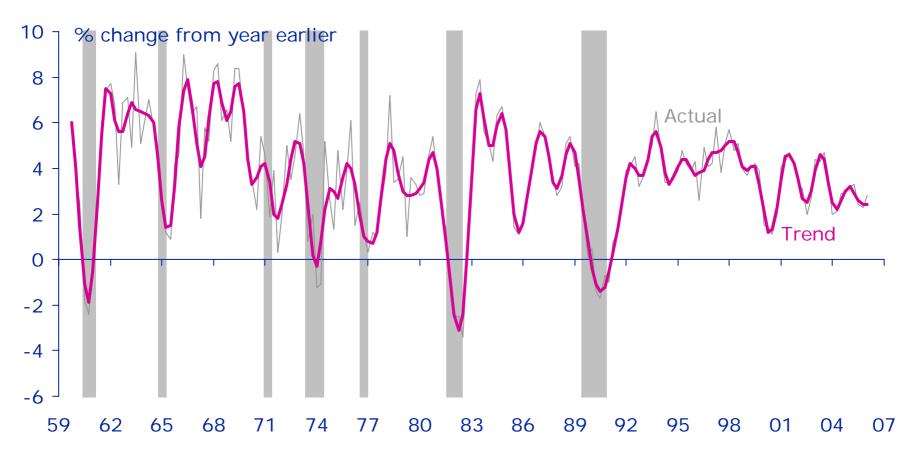
Sources: Thomson Financial Datastream; Economics@ANZ

- We expect the Fed to cut US rates at most twice by late this year – after which, with the US economy bottoming, markets will likely turn to speculating on renewed rises in US rates
- The ECB is likely to have finished tightening by the end of this year
- Thus although the US\$ may fall a little further against the € near-term, it should regain ground during 2008
- Capital outflows from Japan will keep the ¥ relatively weak but the prospect of gradual BoJ tightening should diminish the volume of 'carry trades'

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Australia has now gone nearly 16 years without recession, the longest in its history

Real GDP growth



Note: shaded intervals denote periods in which real GDP growth was negative for two or more quarters, or during which real GDP declined from the year-earlier quarter.

Sources: Australian Bureau of Statistics; Economics@ANZ.



The Australian economy is bumping up against 'capacity constraints'

Unemployment rates



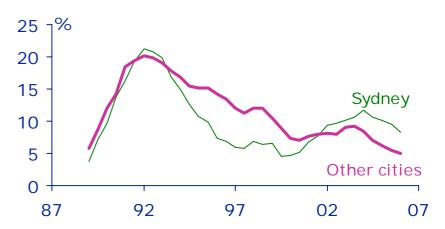
Labour shortages



Capacity utilization



Office vacancy rates



Sources: Australian Bureau of Statistics; National Australia Bank; Property Council of Australia.



Despite this there has been remarkably little acceleration in inflation so far

Wage cost index

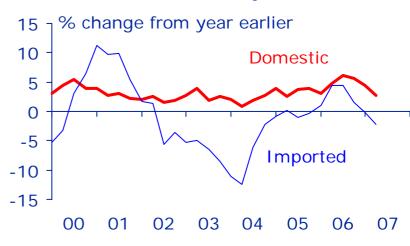


Wage costs: selected sectors



* of consumer goods. Sources: ABS; RBA.

Producer prices*



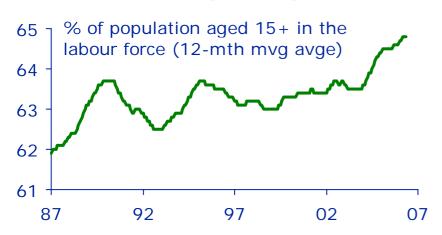
Consumer prices



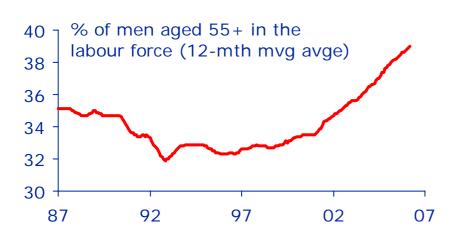


A number of 'safety valves' have increased the elasticity of labour supply

Labour force participation rate



Participation rate men over 55



Permanent & long-term migration



Temporary migration 'for employment'

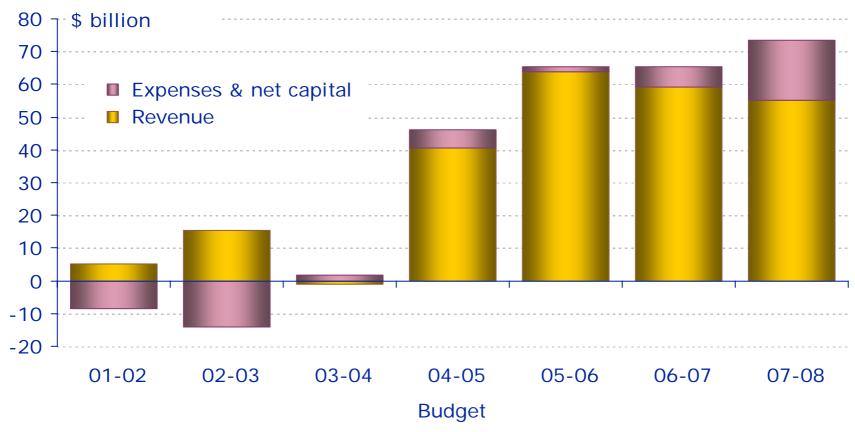


Sources: Australian Bureau of Statistics; Economics@ANZ.



The 2007-08 Budget has again benefited from huge favourable 'parameter variations' ...

Total impact of 'parameter variations' on four-year accruals Forward Estimates from Budget to Budget



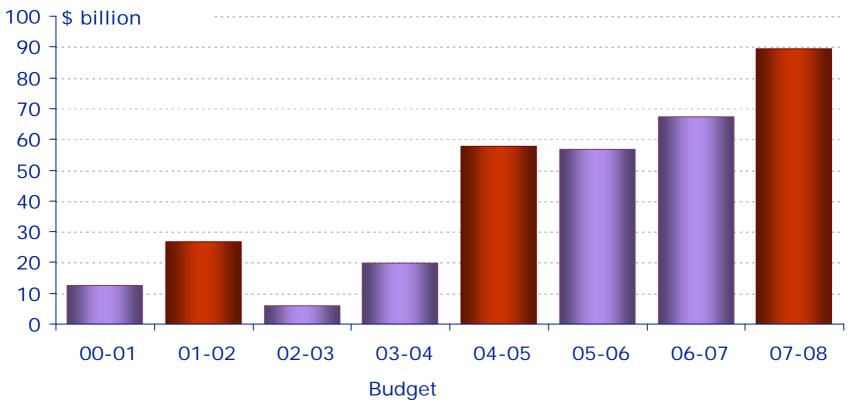
Note: Figures in this chart are based on accrual estimates, and show the impact of 'parameter variations' since the preceding Budget on the forward estimates of revenues and expenses & net capital investment for the four years shown in Table 2 of Statement No. 2 in Budget Paper No. 1 each year.

economics

Sources: Budget Paper No. 1, various years; Economics@ANZ.

... which have in turn been used to fund the largest 'policy decisions' on record

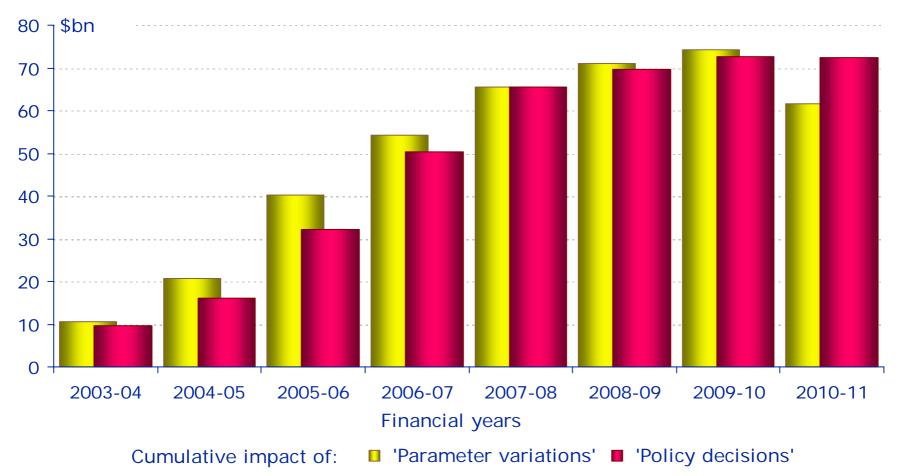
Impact of policy decisions over Forward Estimates periods of the last eight Budgets



Note: Figures in this chart based on accrual rather than cash estimates, and represent the total (over the remainder of the preceding year plus the 4 year Forward Estimates period) impact of decisions taken since the previous Budget, compiled from Table 2 in Statement No. 2 of Budget Paper No. 1 together with estimates for the final year of the Forward Estimates period taken from the Tables at the beginning of Parts 1 and 2 of Budget Paper No. 2.

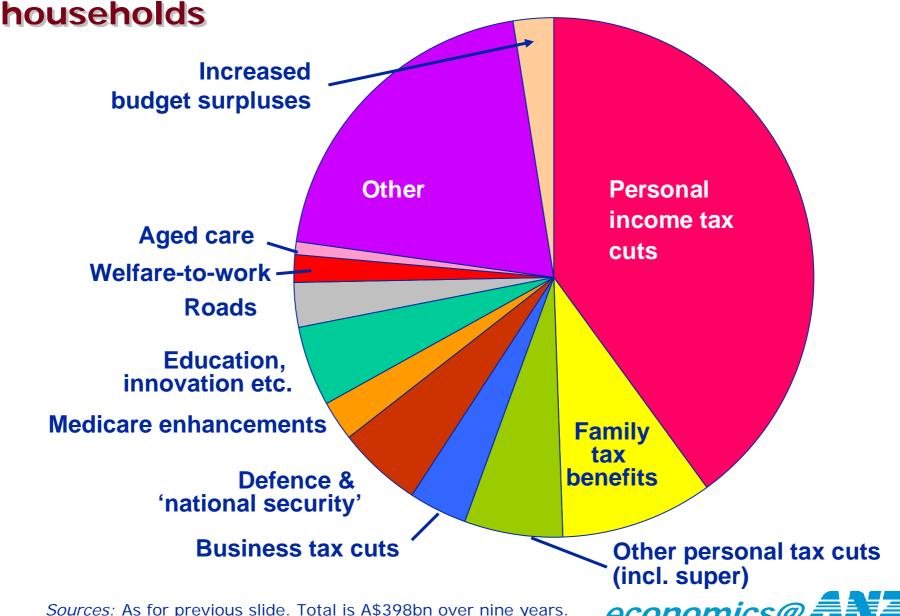
Over the past 5 Budgets, 'parameter variations' have totalled \$398bn and policy decisions \$388bn

Cumulative net impact on the 'underlying' cash balance of 'parameter variations' and 'policy decisions' over past 5 Budgets



Source: Table 4, Statement No. 1 in *Budget Paper No. 1* (various years); Economics@ANZ. See footnote on previous slide for explanation of assumptions used in compiling estimates.

56% of this has been handed over in cash to



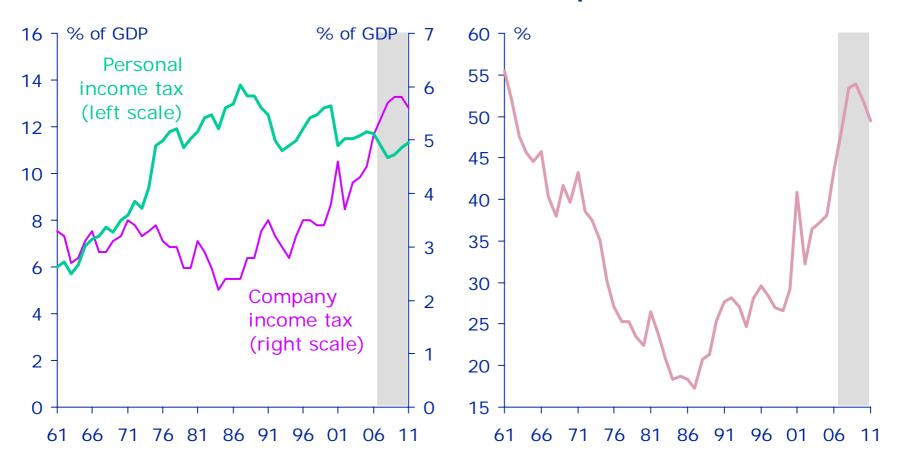
Sources: As for previous slide. Total is A\$398bn over nine years.

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Successive Budgets have effectively redistributed income from companies to households

Personal and company income tax as a % of GDP

Company income tax as a % of personal income tax

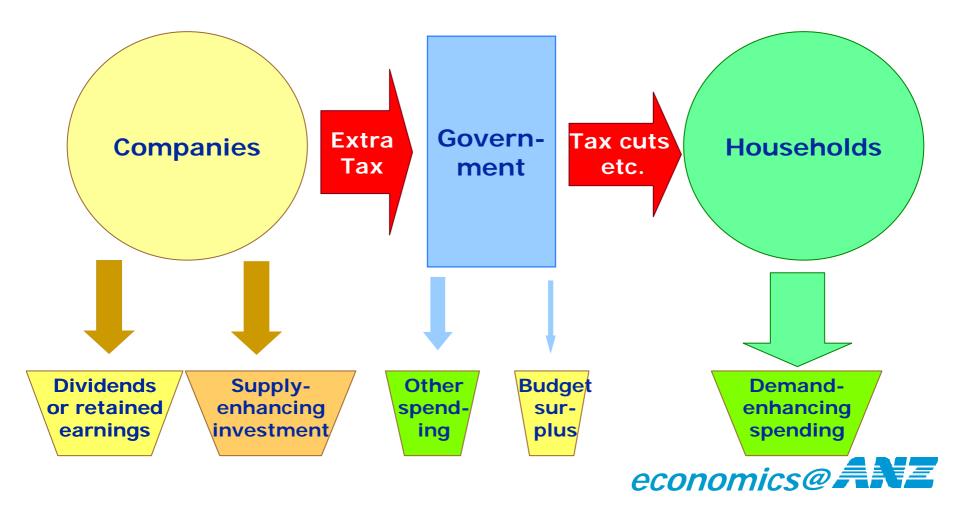


Sources: RBA Occasional Paper No 8, Australian Economic Statistics 1949-50 to 1994-95 Table 2.17 and Budget Paper No. 1, Statement 5, Tables C4 & C5 (various years).



Just because the Budget is in surplus doesn't mean it's not boosting demand

A stylized representation of how recent Budgets have boosted demand even with an unchanged surplus

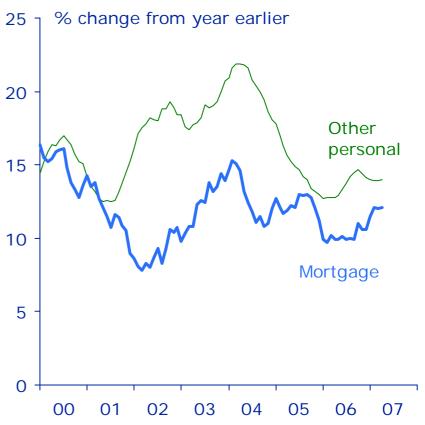


There's no hard evidence that households saved any significant proportion of last year's tax cuts

Household saving ratio

Household credit outstanding



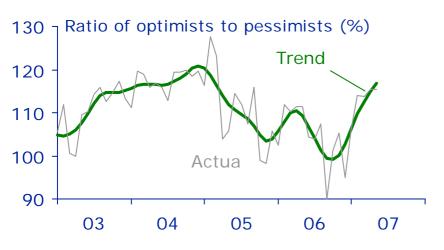


Sources: ABS; RBA.

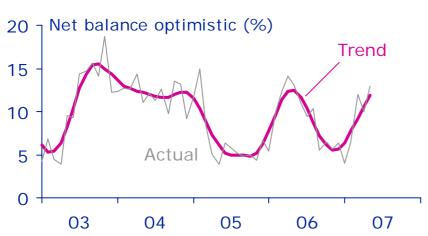


Australian economy has picked up again this year despite last year's three interest rate increases

Consumer confidence

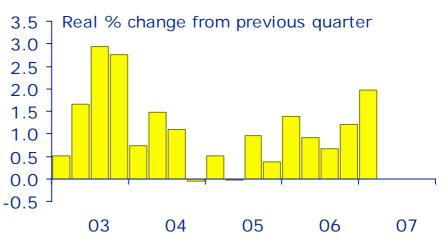


Business confidence



Sources: Westpac-Melbourne Institute; National Australia Bank; ABS.

Retail sales volume



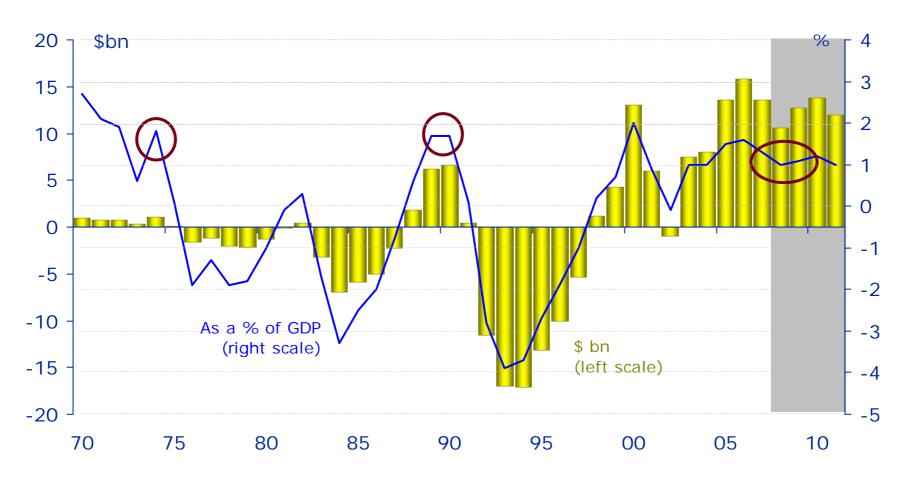
Housing finance commitments





The projected Budget surpluses are smaller than at the same stage of previous business cycles

Commonwealth 'underlying' cash balance

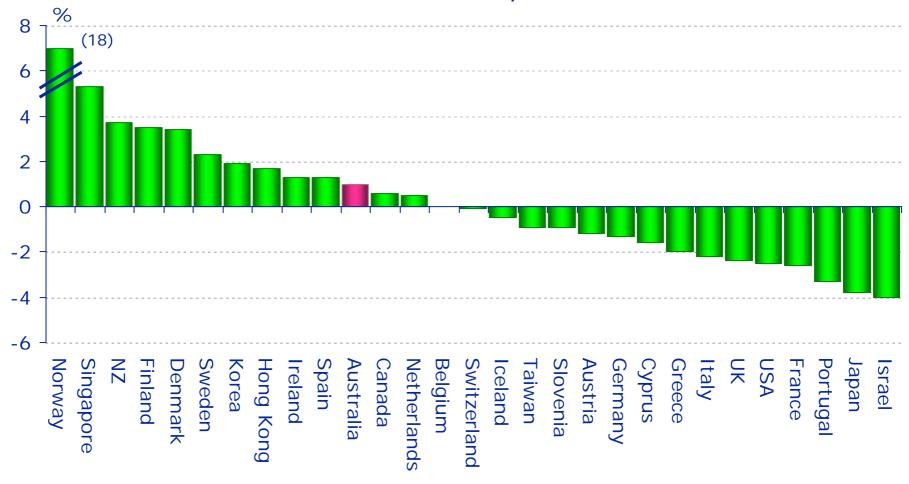


Sources: 2007-08 Budget Paper No. 1, Statement 13, Table 1 (and previous issues).



Australia's budget surplus ranks only 11th among advanced economies in 2007

'General government' financial balance as % of GDP, 2007

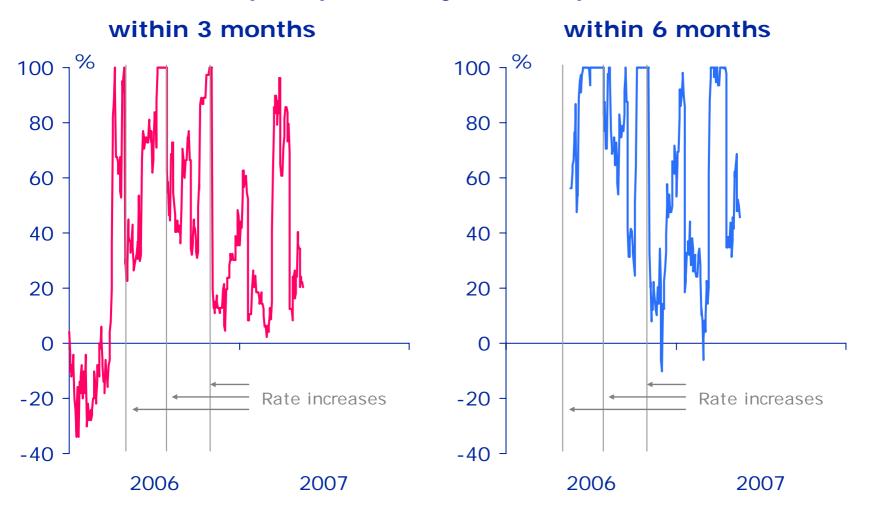


Sources: IMF, World Economic Outlook database (April 2007) and Budget Paper No. 1.



Markets have backed off expectations for a nearterm rate rise but still expect higher rates in 2008

Market implied probability of a 25 bp rate increase

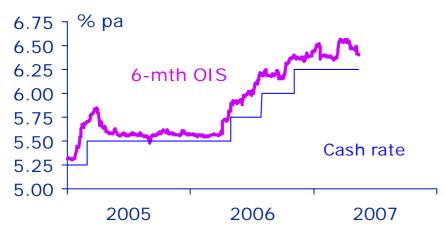


Note: vertical lines indicate date of increases in the cash rate. Sources: Bloomberg; Economics@ANZ (based on 30-day futures contracts).

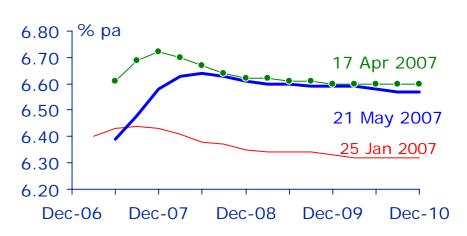


Markets have backed off expectations for a nearterm rate rise but still expect higher rates in 2008

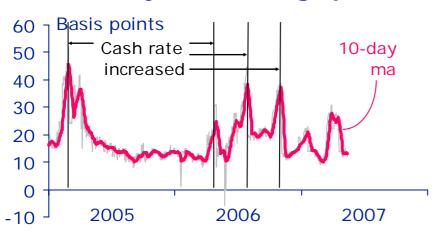
Overnight index swaps



90-day bank bill futures



90-day bill funding spread



Yield curves

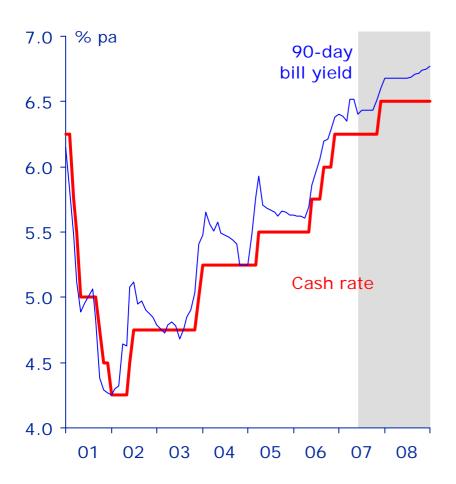


Sources: Bloomberg; Economics@ANZ.



Interest rates probably won't rise before the election but will go up again afterwards

Australian interest rates



Shaded areas denote forecasts. Sources: RBA; Datastream; Economics@ANZ.

- The RBA gave strong hints that it was contemplating a rate increase in April but chose to wait for the March quarter inflation data – which vindicated the decision to remain on hold
- Having lowered its forecast for 'underlying inflation' for 2007 to 2½% the RBA is quite unlikely to raise the cash rate in the next six months (ie before the election)
- But its forecasts for 2008 and beyond signal an on-going concern that 'underlying' inflation could exceed the top of the target band – and with demand set to remain strong a post-election rate rise is likely



Speculative positioning indicates that the A\$ and NZ\$ still benefiting from the 'carry trade'

Mar-07



Swiss franc

Sep-05 Mar-06 Sep-06



Australian dollar



25 1000 contracts 20 - 15 - 10 - 5 - 5 - Mar-05 Sep-05 Mar-06 Sep-06 Mar-07

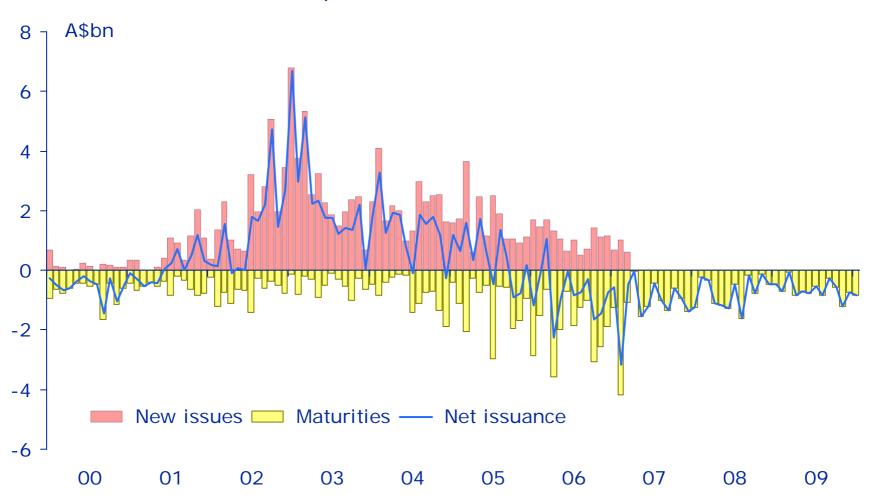


Sources: ANZ and Bloomberg

Mar-05

A\$ off-shore bond maturity profile is relatively light (especially compared to NZ\$)

A\$ Euro-bond issuance



Note: Includes Uridashis. Profile of new issuance from May 2007 is unknown. *Sources:* RBA; Bloomberg; ANZ Markets Research.



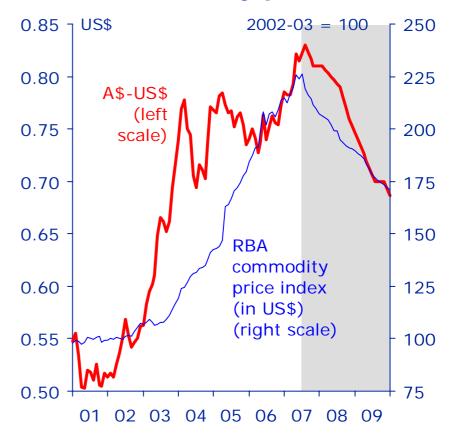
A\$ will ease in line with commodity prices though attracting some support from interest rate spreads

Economic influences on the value of the A\$

Interest rate spreads

0.85 ¬ US\$ Basis points 500 0.80 400 0.75A\$-US\$ 300 (left 0.70 scale) 0.65 200 0.60 Australia-100 US 90-day 0.55 interest rate spread 0 1 yr forward 0.50 (right scale) 0.45 01 02 03 04 05 06 07 08 09

Commodity prices



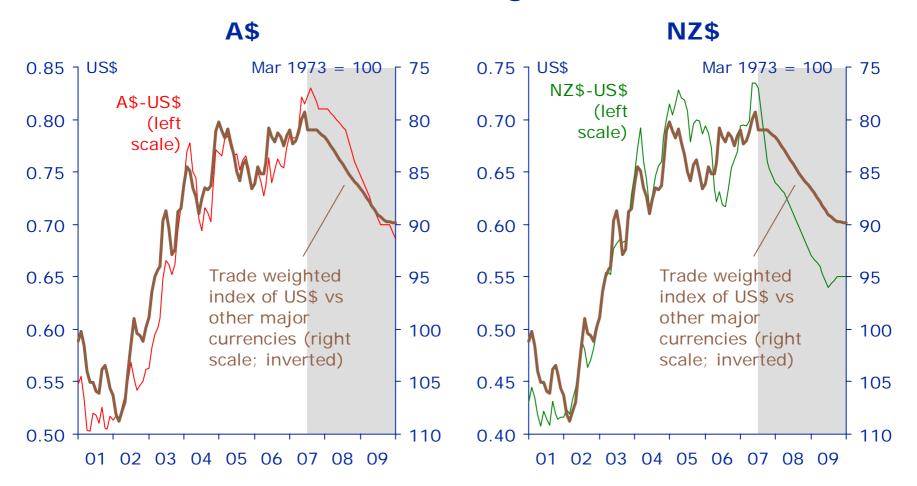
Shaded areas denote forecasts.

Sources: Datastream; RBA; Economics@ANZ.



The expected rebound in the US dollar in 2008 will also be reflected in weaker A\$ and NZ\$

A\$ and NZ\$ vs trade-weighted value of US\$



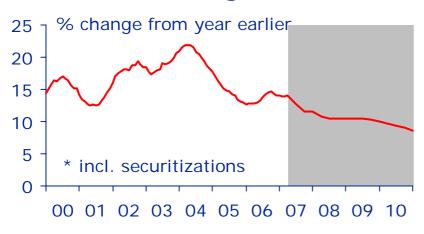
Shaded areas denote forecasts.

Sources: Datastream; US Federal Reserve; Economics@ANZ.

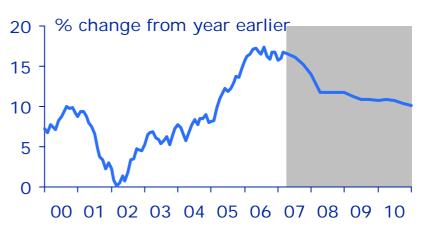


Declining housing affordability and the peak in the investment boom suggest slowing credit growth

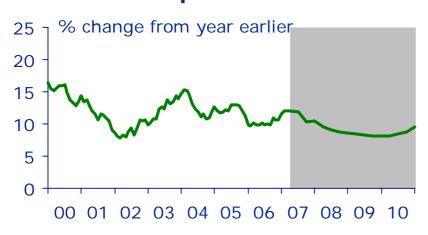
Housing credit*



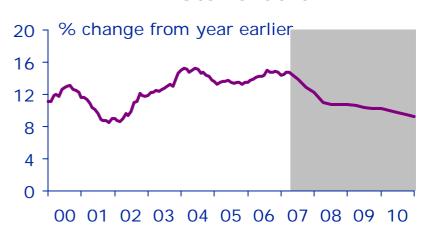
Business credit



Other personal credit



Total credit

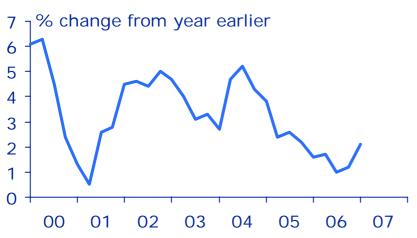


Source: Reserve Bank of Australia; Economics@ANZ forecasts.



NZ economy has slowed but earlier fears of a 'hard landing' haven't been realized

Real GDP growth



Current account balance



Sources: Statistics NZ; NZ Institute of Economic Research.

Unemployment



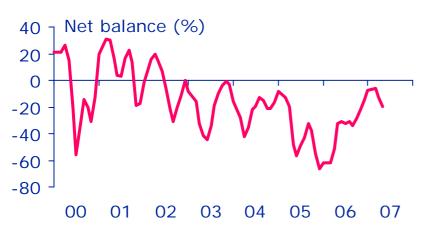
Capacity utilization



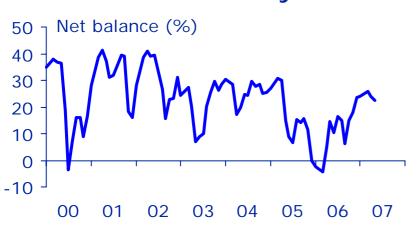


Survey evidence suggests that NZ business conditions have softened a little in recent months

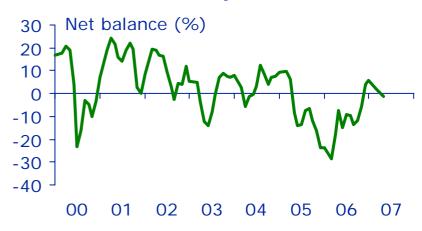
Business confidence



Firms' own activity outlook



Profit expectations



Employment expectations



Source: ANZ National Bank.



NZ benefiting from terms of trade and population gains and a still-buoyant housing market

Export commodity prices



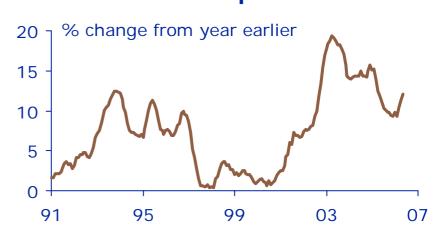
Net immigration



Terms of trade



House prices

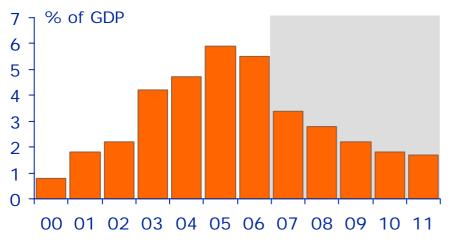


Sources: ANZ National Bank; Statistics NZ; REINZ.

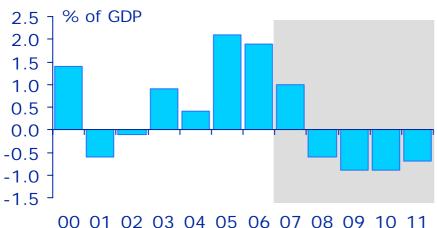


New Zealand's budget will be mildly expansionary

OBERAC/OBEGAL*



Cash balance



* Operating balance excl. revaluations and accounting changes (pre-2007); op balance before gains & losses and excl. NZ Super Fund revenue (2007 and after)

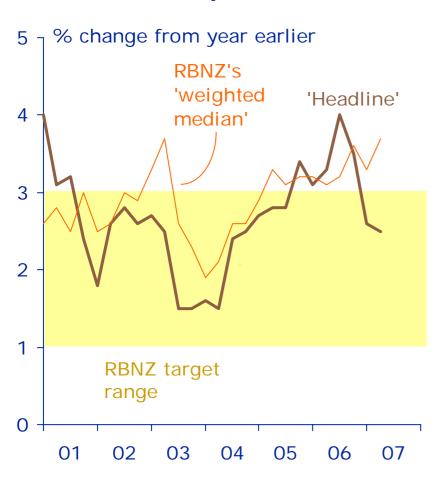
Key features of the 2007 Budget:

- company tax rate cut from 33% to 30%
- \$500mn additional capital spending over four years (mainly for urban rail networks)
- compulsory super ('KiwiSaver')
 commencing with employer
 contributions of 1% from April
 2008 rising to 4% by 2011,
 matched by tax credits up to \$40
 per week
- In addition regions have been given scope to impose fuel taxes to fund transport projects
- The Budget will add to demand, even allowing for the fact that some of the measures will be directed to private saving
 - in particular note that the budget balance (expressed in the same terms as Australian budgets) swings into deficit in 2007-08

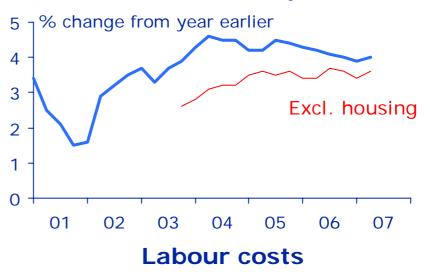


The RBNZ has become increasingly frustrated at the persistence of above-target inflation

Consumer price inflation



'Non-tradeable' prices



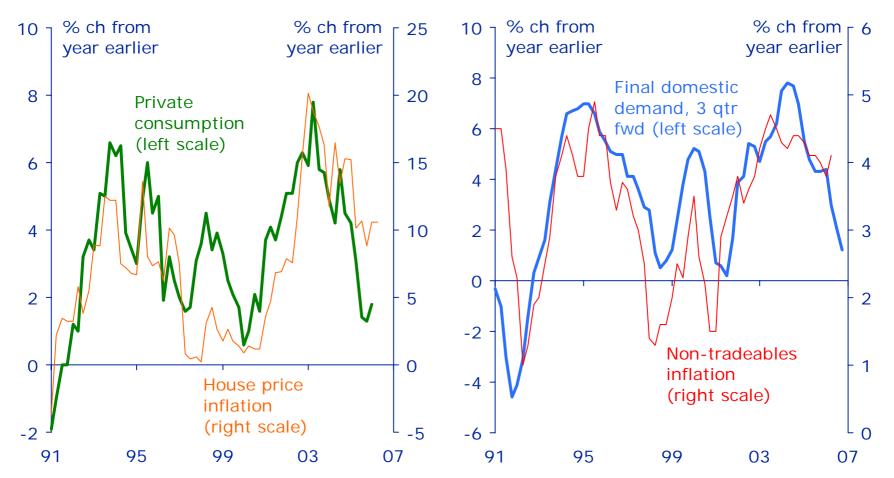


Sources: Statistics NZ; Reserve Bank of New Zealand.

House price inflation and domestic demand need to slow to bring inflation down

House price inflation and private consumption

Domestic demand growth and inflation

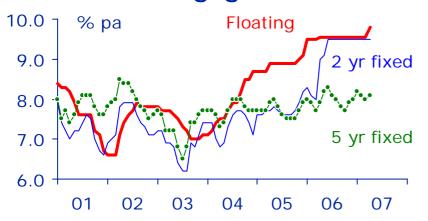


Sources: REINZ; Statistics NZ; ANZ National Bank.

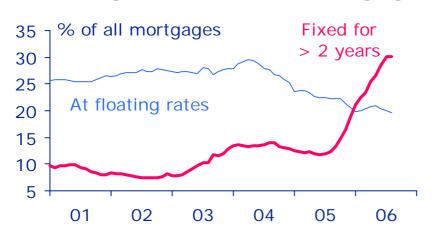


The RBNZ's efforts to tighten monetary policy have been muted by shift to fixed rate mortgages

Mortgage rates

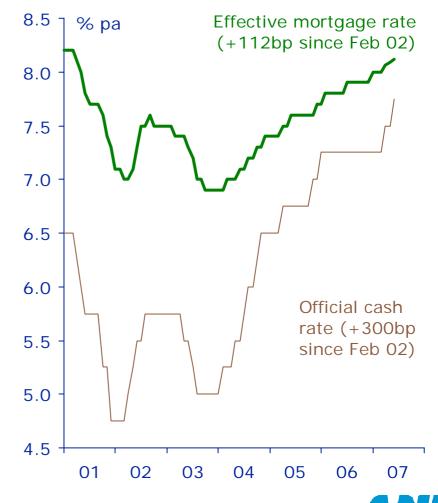


Floating vs fixed rate mortgages



Source: Reserve Bank of New Zealand

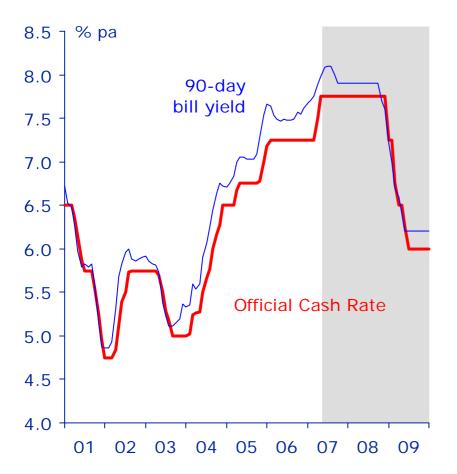
Cash vs mortgage rate



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RBNZ likely to keep rates on hold until late 2008 before cutting aggressively in 2009

NZ interest rates

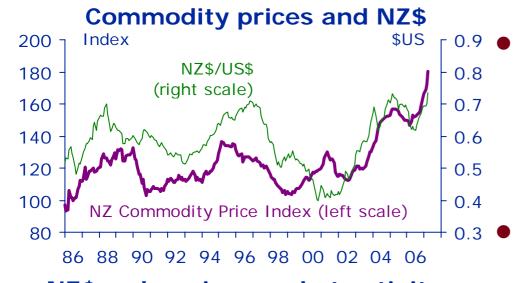


Shaded areas denote forecasts. Sources: Reuters; ANZ National Bank.

- Non-tradable inflation has risen back above 4 percent and core inflation measures remain well above the RBNZ's target range
- The Reserve Bank has already raised the OCR twice in 2007 but given the current inflation backdrop, the bias to interest rates is still to the upside
- Borrowers are facing a material jump in fixed lending rates.
- While we retain our 'base case' view that 7¾% will be the peak of the OCR cycle, there is perhaps a 40% chance that rates move up again in June



NZ\$ remains supported over the near-term, but the medium term outlook remains bearish



NZ\$ vs housing market activity Sales ('000s) US 0.9 House sales 8.0 10 (left scale) 0.7 8 0.6 6 0.5 NZ\$/US\$ 4 (right 0.4 92 98 02 06 94 96 0004

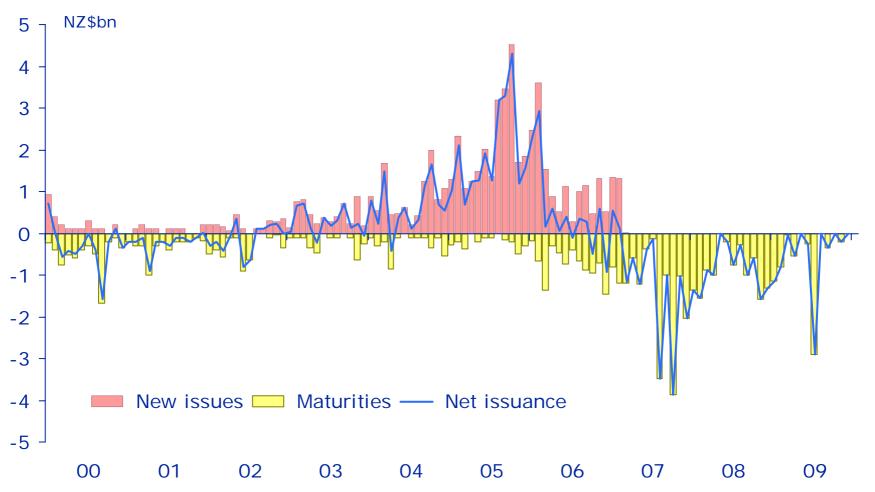
- The NZ\$ has performed strongly, recording a post-float high close to US75¢ in April, with interest rates and commodity (especially dairy) prices providing substantial support
- While the NZ\$ is close to record highs against the US\$ and ¥, it has been flat against most other currencies
- Interest rates, economic activity, and commodity prices are likely to provide ongoing support to the NZ\$ over the near-term, weaker economic data beyond that horizon are likely to lead to sharp falls in the currency

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Sources: Reuters; Statistics NZ; ANZ National Bank.

Heavy schedule of offshore NZ\$ bond maturities may prompt NZ\$ weakness later this year

NZ\$ Euro-bond issuance

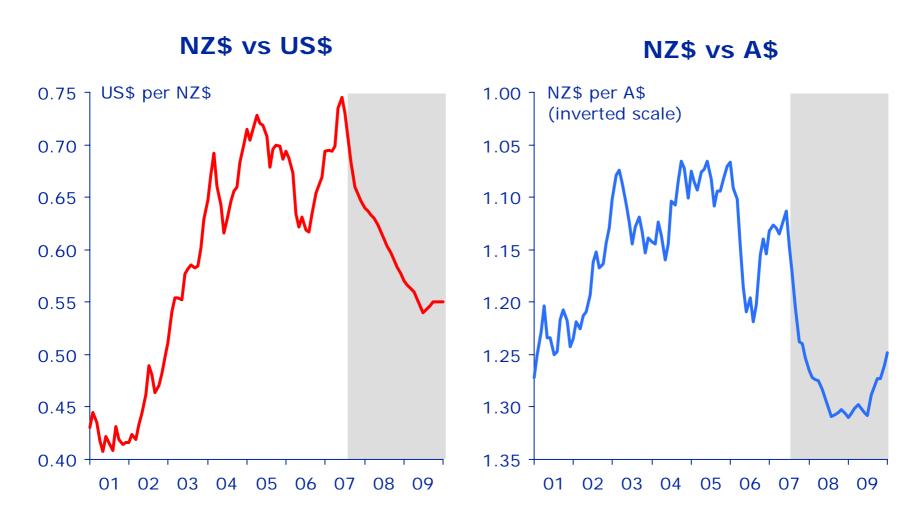


Note: Includes Uridashis. The profile of new issues from May 2007 onwards is of course unknown.

Sources: Bloomberg; RBNZ; ANZ Markets Research.



New Zealand dollar will weaken ahead of aggressive easing by RBNZ



Shaded areas denote forecasts.

Sources: Datastream: NZ Economics



Credit growth in New Zealand is expected to slow over the next 18 months

- Lending growth remains robust: the solid trend in lending is not showing any material sign of easing, although the large increase in mortgage loans written in March may reflect early refinancing ahead of Reserve Bank interest rate increases
- We expect continued moderation in credit growth given prospects for softening growth in the domestic economy
- System wide growth for the banking sector of around 8-10 % pa is expected over the coming three years

