The Australian Economy and Financial Markets

Chart Pack April 2017



The Australian Economy and Financial Markets

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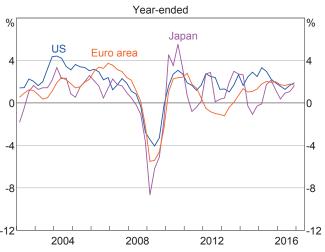
World Economy

GDP Growth – World



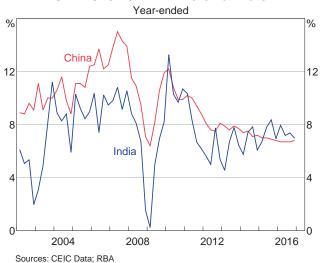
- * Weighted using Australian export shares
- ** PPP-weighted; accounts for 85 per cent of world GDP Sources: ABS; CEIC Data; IMF; RBA; Thomson Reuters

GDP Growth – Advanced Economies

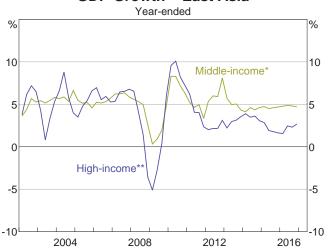


Source: Thomson Reuters

GDP Growth - China and India



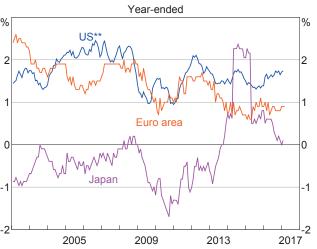
GDP Growth - East Asia



- * Indonesia, Malaysia, Philippines and Thailand; PPP-weighted
- ** Hong Kong, Singapore, South Korea and Taiwan; PPP-weighted Sources: CEIC Data; IMF; RBA

World Economy

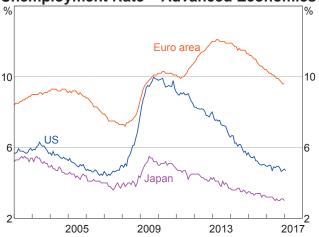
Core Inflation* - Advanced Economies



- Excluding food and energy, and for the euro area also excluding alcohol and tobacco
- ** Core price index for personal consumption expenditures

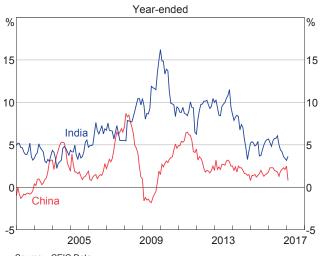
Source: Thomson Reuters

Unemployment Rate – Advanced Economies



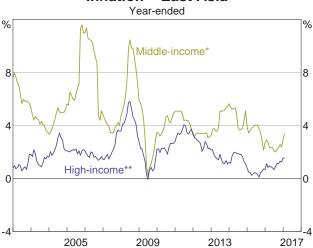
Source: Thomson Reuters

Inflation - China and India



Source: CEIC Data

Inflation - East Asia

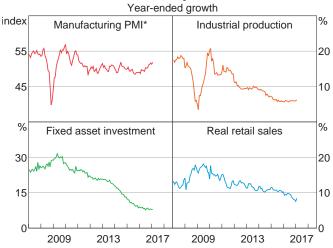


- * Indonesia, Malaysia, Philippines and Thailand; PPP-weighted
- ** Hong Kong, Singapore, South Korea and Taiwan; PPP-weighted Sources: CEIC Data; IMF; RBA; Thomson Reuters



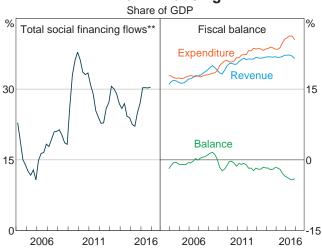
World Economy

China – Activity Indicators



* Diffusion index; average of the official and Caixin Sources: CEIC Data; Markit Economics; RBA

China - Financing*

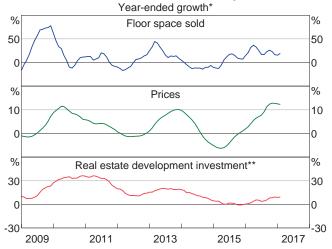


* Seasonally adjusted by RBA

** Upper bound estimate adjusting for impact of local government bond issuance to pay off debt previously included in TSF

Sources: CEIC Data; RBA

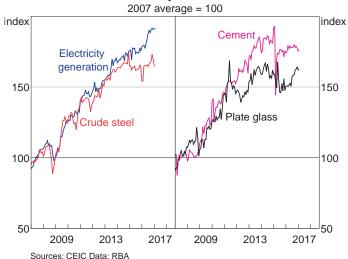
China – Residential Property Market



- * For sales and investment, a three-month moving average of the seasonally adjusted series is used to calculate growth
- ** Investment by developers and other construction companies in the development of residential property, includes land purchases

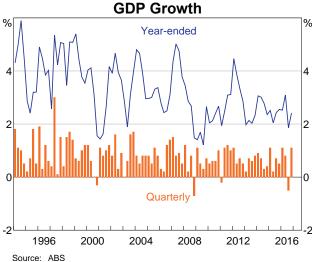
Sources: CEIC Data: RBA

China – Output Indicators

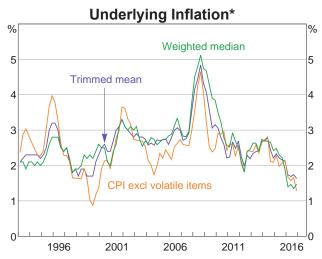




Australian GDP Growth and Inflation

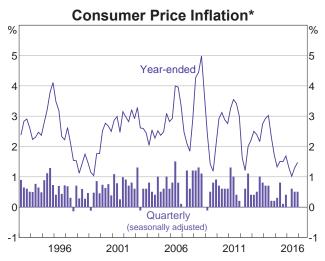


Source. Abo



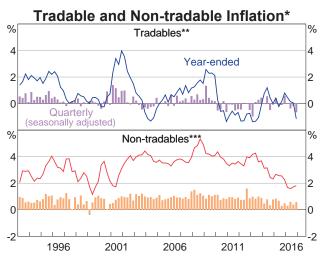
Excluding interest charges prior to the September quarter 1998 and adjusted for the tax changes of 1999–2000

Sources: ABS; RBA



 Excluding interest charges prior to the September quarter 1998 and adjusted for the tax changes of 1999–2000

Sources: ABS; RBA

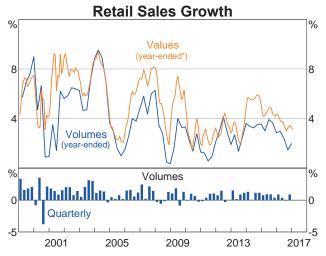


- * Excludes tobacco; adjusted for the tax changes of 1999–2000
- ** Excludes volatile items (fruit, vegetables & automotive fuel)
- *** Excludes interest charges prior to the September quarter 1998, and deposit & loan facilities prior to the September quarter 2011

Sources: ABS; RBA

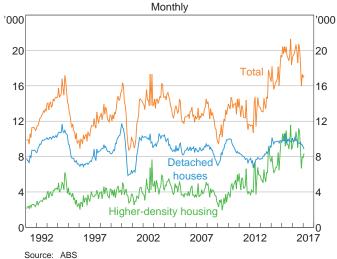


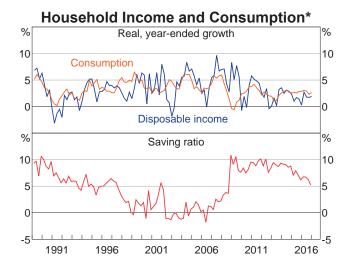
Household Sector



* Percentage change over year to latest three months Source: ABS

Private Residential Building Approvals

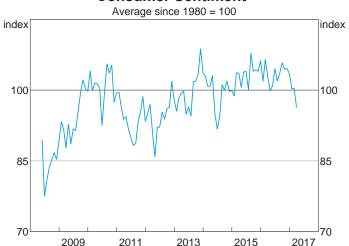




 Household sector includes unincorporated enterprises; disposable income is after tax and interest payments; income level smoothed with a two-quarter moving average between March quarter 2000 and March quarter 2002; saving ratio is net of depreciation

Sources: ABS; RBA

Consumer Sentiment*



* Average of the ANZ-Roy Morgan and Westpac-Melbourne Institute consumer sentiment measure of respondents' perceptions of their personal finances relative to the previous year; ANZ-Roy Morgan index rescaled to have the same average as the Westpac-Melbourne Institute index since 1996

Sources: ANZ-Roy Morgan; RBA; Westpac and Melbourne Institute



Household Sector

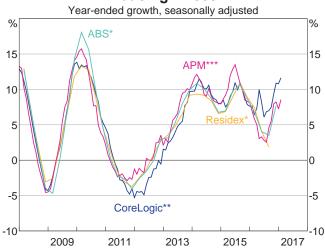
Household Finances



- Disposable income is after tax and before the deduction of interest payments
- ** Excludes unincorporated enterprises

Sources: ABS; RBA

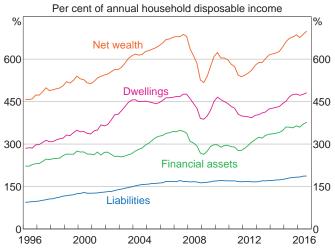
Housing Prices



- ABS is a quarterly stratified median price index; Residex is a quarterly repeat sales price index
- ** Monthly hedonic price index; series breaks occurred in April 2016 and May 2016 due to changes in methods used to calculate the index
- *** Monthly stratified median price index

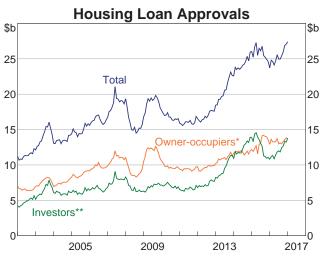
Sources: ABS; APM; CoreLogic; RBA; Residex

Household Wealth and Liabilities*



 Disposable income is after tax and before the deduction of interest payments

Sources: ABS; RBA

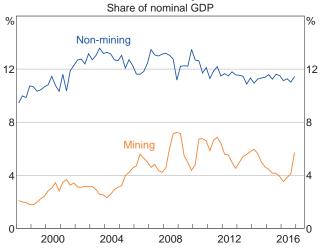


- * Excludes refinancing
- ** Includes refinancing

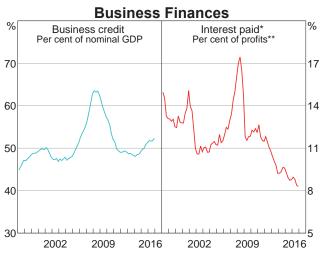
Sources: ABS; RBA

Business Sector

Private Non-financial Corporation Profits*

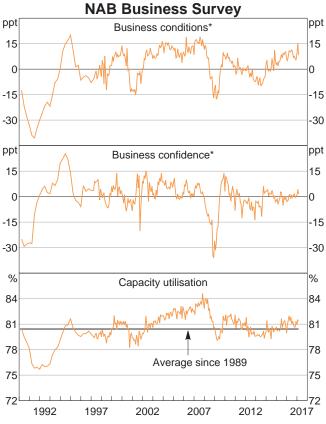


* Gross operating profits; inventory valuation adjusted Sources: ABS; RBA



- Interest on intermediated debt from Australian-domiciled financial institutions
- ** Profits are private non-financial gross operating surplus (adjusted for privatisations) and gross mixed income

Sources: ABS; APRA; RBA



* Net balance; deviation from average since 1989 Sources: NAB; RBA



Business Sector

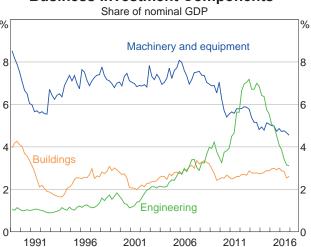
Business Investment*



 Adjusted for second-hand asset transfers between the private and other sectors

Source: ABS

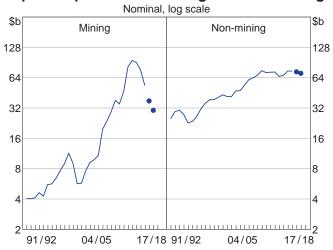
Business Investment Components*



 Adjusted for second-hand asset transfers between the private and other sectors

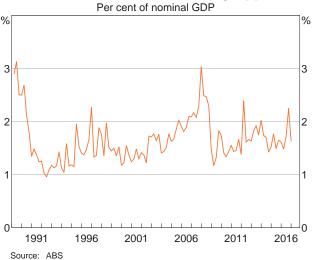
Source: ABS

Capital Expenditure - Mining and Non-mining*

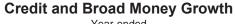


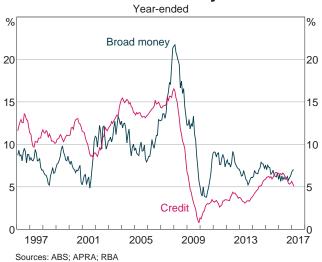
 Dots are firms' expectations for 2016/17 and 2017/18, adjusted for historical differences between expected and realised spending
 Sources: ABS; RBA

Private Non-residential Building Approvals

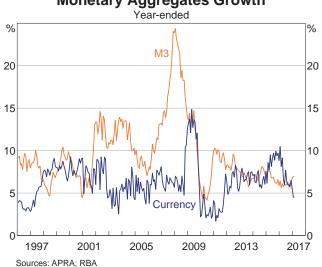


Credit and Money

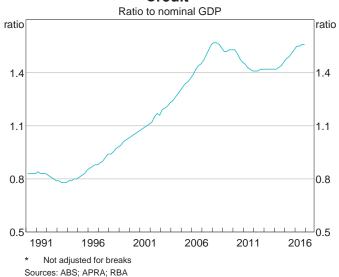




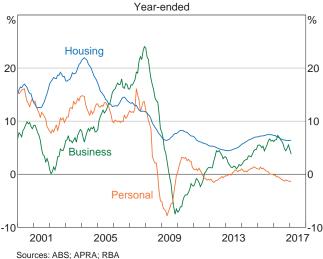
Monetary Aggregates Growth



Credit*



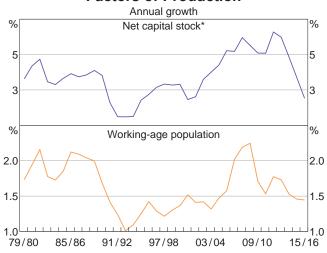
Credit Growth by Sector





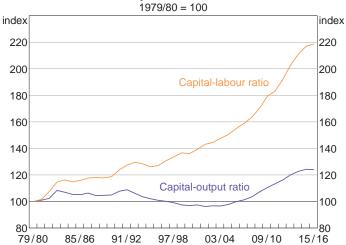
Factors of Production and Labour Market





* Excluding livestock & orchards, dwellings and ownership transfer costs Sources: ABS; RBA

Capital Ratios*

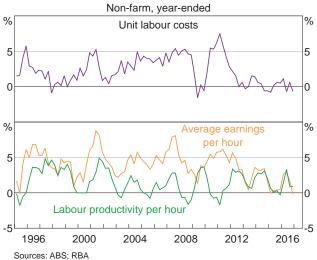


 Capital stock excludes livestock & orchards, dwellings and ownership transfer costs

Sources: ABS; RBA

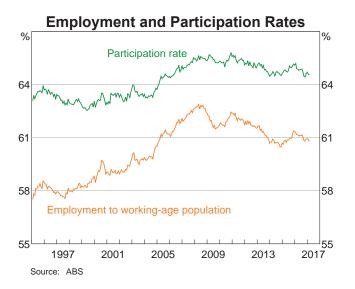


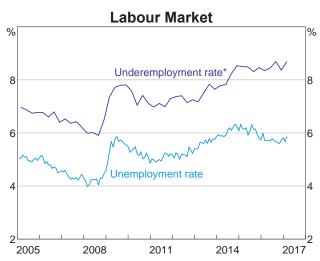
Unit Labour Costs Growth





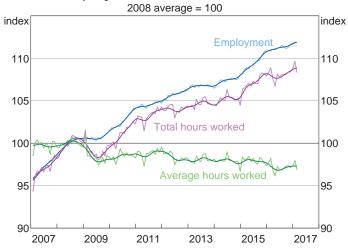
Factors of Production and Labour Market





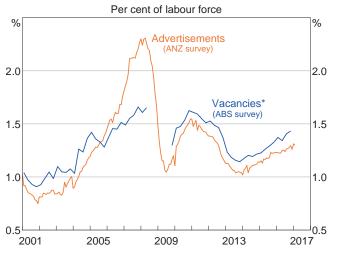
 Full-time workers on reduced hours for economic reasons and part-time workers who would like, and are available, to work more hours
 Source: ABS

Employment and Hours Worked*



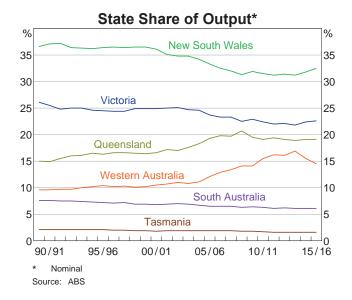
* Smoothed lines are 13-period Henderson trends Sources: ABS; RBA

Job Vacancies and Advertisements

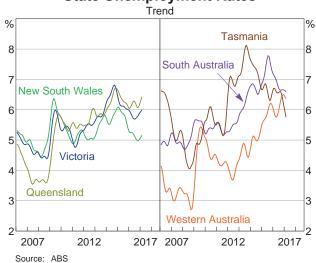


 This survey was suspended between May 2008 and November 2009 Sources: ABS; ANZ

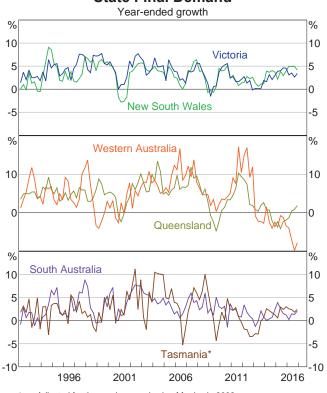
Regions and Industry



State Unemployment Rates

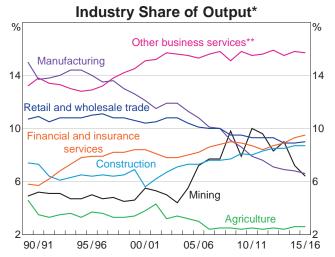


State Final Demand



* Adjusted for the purchase and sale of ferries in 2002 Source: ABS

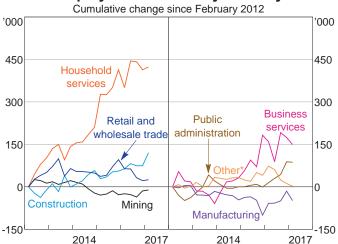
Regions and Industry



- * Nominal gross value added
- ** Includes: information media and telecommunications; rental, hiring and real estate services; professional, scientific and technical services; administrative and support services

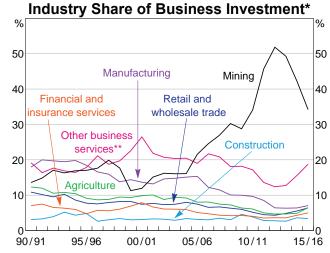
Source: ABS

Employment Growth by Industry



Includes agriculture, forestry & fishing; transport, postal & warehousing; and electricity, gas, water & waste services

Source: ABS

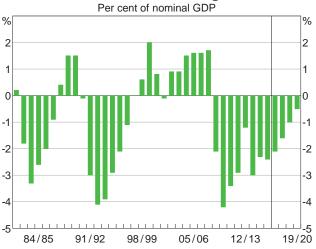


- * Nominal
- * Includes: information media and telecommunications; rental, hiring and real estate services; professional, scientific and technical services; administrative and support services

Source: ABS

Government

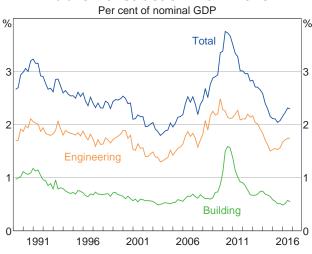
Australian Government Budget Balance*



Underlying cash balance; 2016/17 MYEFO

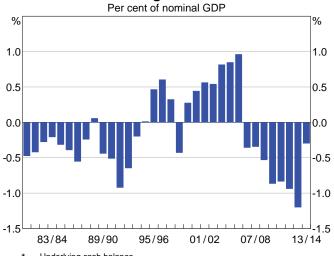
Source: Australian Treasury

Public Construction Work Done



Source: ABS

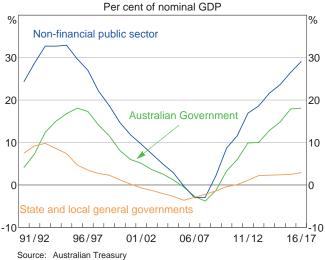
State Budget Balances*



* Underlying cash balance

Source: ABS

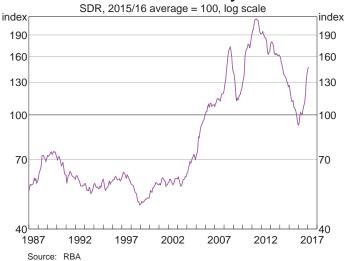
Non-financial Public Sector Net Debt



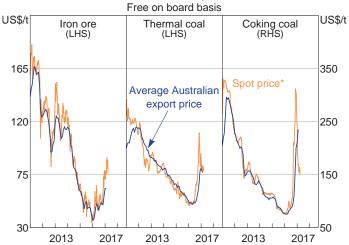


Commodity Prices

RBA Index of Commodity Prices

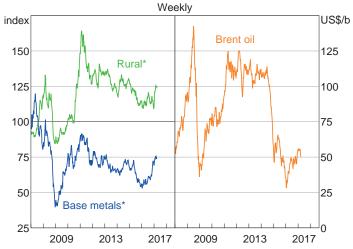


Bulk Commodity Prices



* Iron ore fines, Newcastle thermal coal and premium hard coking coal Sources: ABS; Bloomberg; IHS; RBA

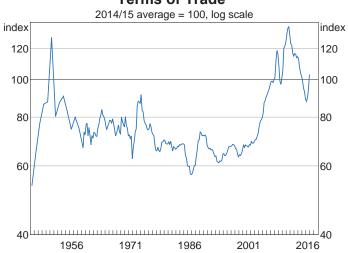
Base Metals, Rural and Oil Prices



 RBA Index of Commodity Prices sub-indices; SDR terms; 2007 average = 100

Sources: Bloomberg; RBA

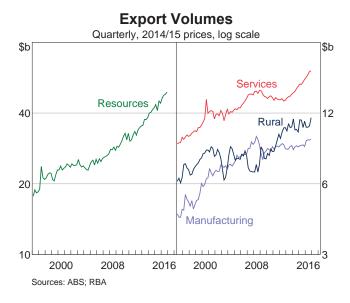
Terms of Trade*

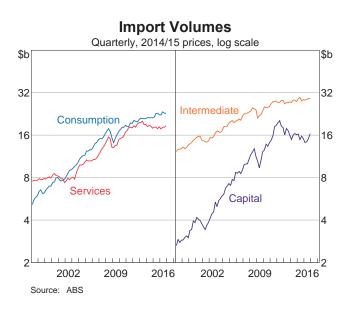


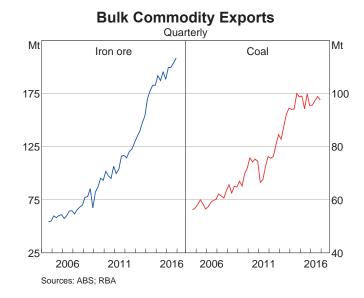
* Annual data are used prior to 1960 Sources: ABS: RBA

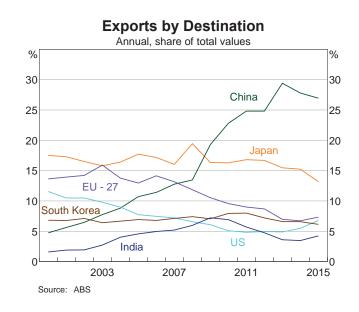


Balance of Payments and External Position





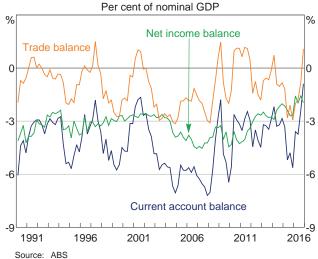




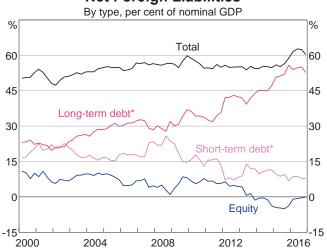


Balance of Payments and External Position

Current Account Balance Per cent of nominal GDP



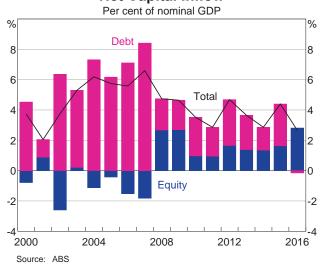
Net Foreign Liabilities



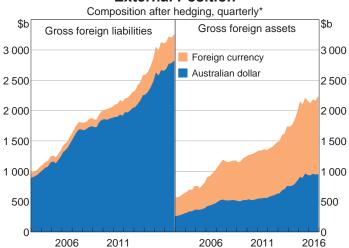
 Short-term includes debt with residual maturity of one year or less; long-term includes all other debt

Source: ABS

Net Capital Inflow

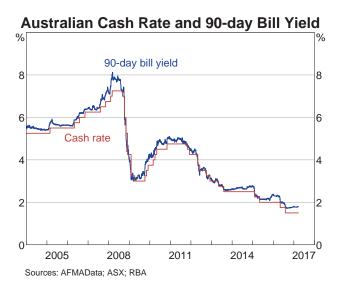


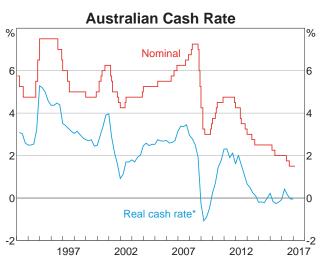
External Position



 Hedge ratios inferred from ABS Foreign Currency Exposure surveys Sources: ABS; RBA

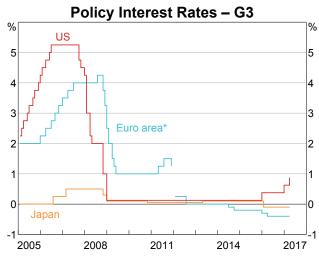






 Calculated using average of year-ended weighted median inflation and year-ended trimmed mean inflation

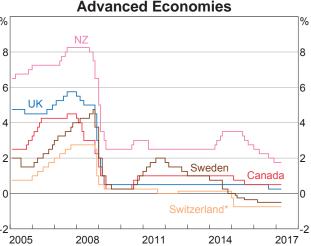
Sources: ABS; RBA



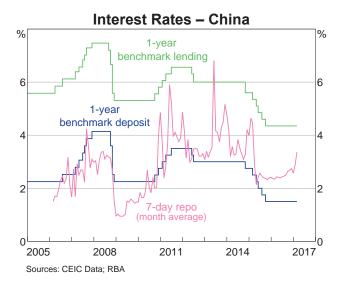
* Main refinancing rate until the introduction of 3-year LTROs in December 2011; deposit facility rate thereafter

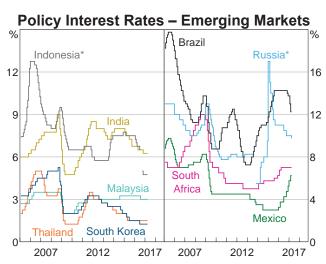
Source: Central banks

Policy Interest Rates – Selected Advanced Economies



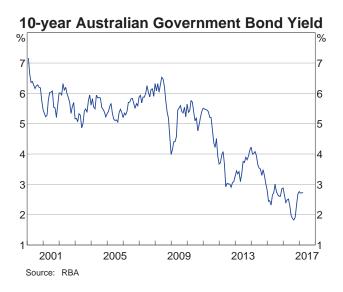
* Policy rate is the midpoint of the 3-month LIBOR target band Source: Central banks

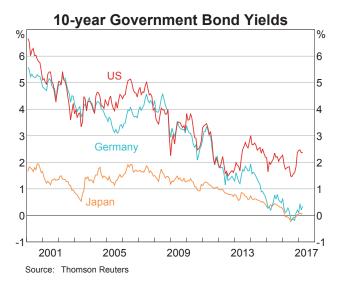




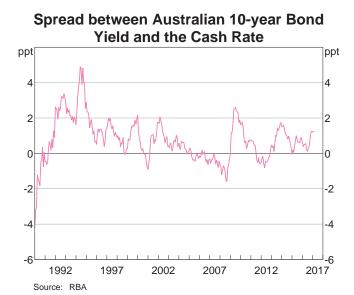
Breaks in series indicate changes in the official policy rates for Russia (September 2013) and Indonesia (August 2016)

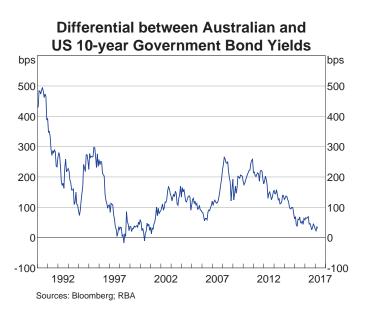
Source: Central banks

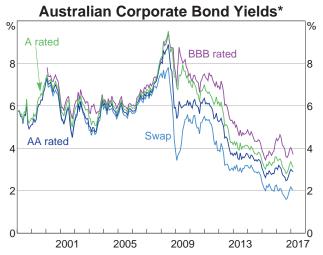








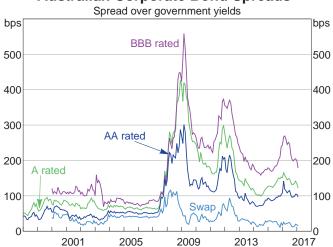




 Swap rates are for 3-year maturity; corporate bond yields are a weighted average of senior bonds with remaining maturities of 1 to 5 years, including financial and non-financial corporations

Sources: Bloomberg; RBA; UBS AG, Australia Branch

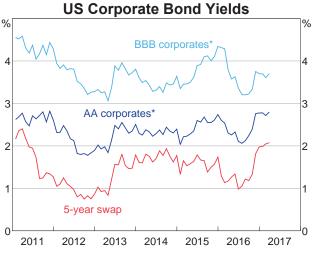
Australian Corporate Bond Spreads*



 Swap spreads are for 3-year maturity; corporate bond spreads are a weighted average of senior bonds with remaining maturities of 1 to 5 years, including financial and non-financial corporations

Sources: Bloomberg; RBA; UBS AG, Australia Branch

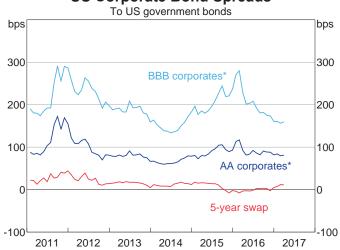




* Includes financials and non-financials

Source: Bloomberg

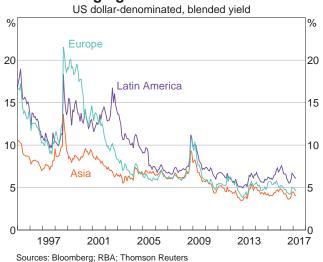
US Corporate Bond Spreads



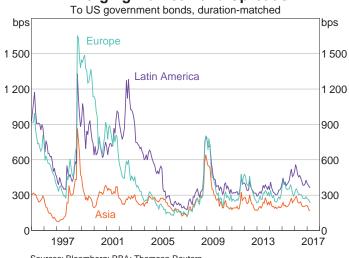
* Includes financials and non-financials

Source: Bloomberg

Emerging Market Bond Yields



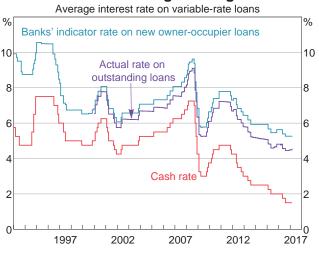
Emerging Market Bond Spreads







Australian Housing Lending Rates



Sources: ABS; APRA; Perpetual; RBA

Australian Small Business Interest Rates Weighted-average outstanding variable rate** 12 10 Overdraft other security* 10 Cash rate 4 Term loan residential security* 2

2007

2012

2017

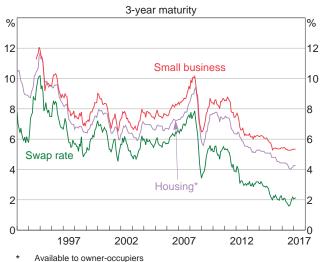
* Indicator rates

1997

** RBA estimate; including risk margins Sources: APRA; Canstar Cannex; RBA

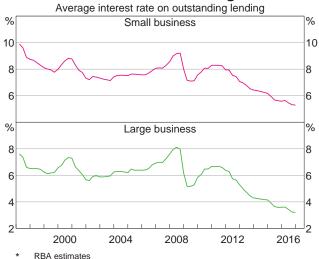
2002

Australian Fixed Interest Rates



Sources: Banks' websites; Bloomberg; Canstar Cannex; RBA

Australian Business Lending Rates*

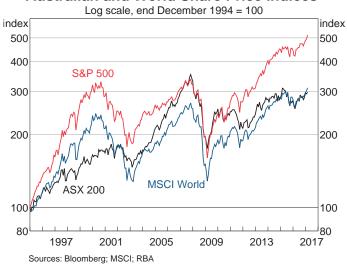


Sources: APRA; RBA

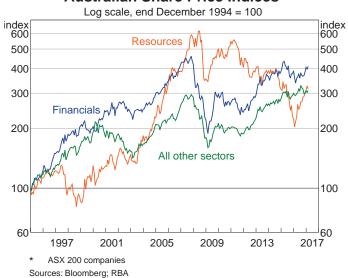


Share Markets

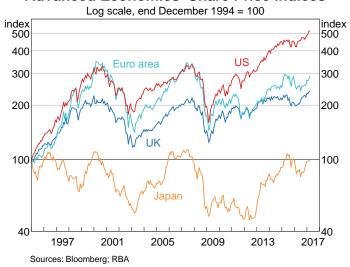
Australian and World Share Price Indices



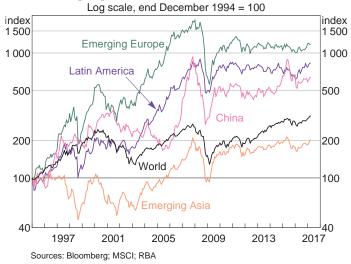
Australian Share Price Indices*



Advanced Economies' Share Price Indices

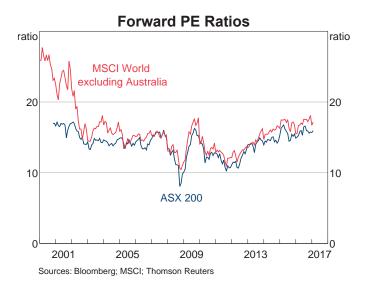


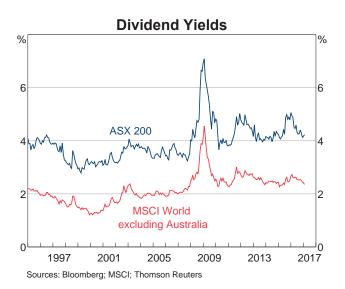
Emerging Markets' Share Price Indices



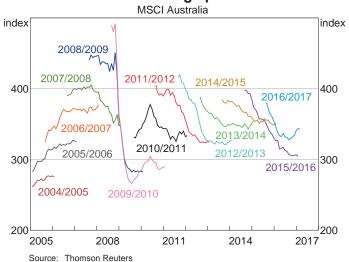


Share Markets

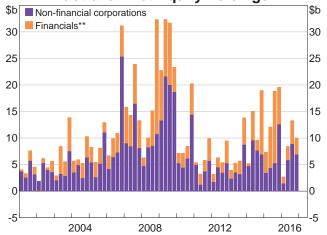




Forecast Earnings per Share



Australian Net Equity Raisings*

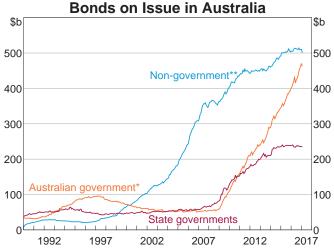


- * All listed companies
- ** Includes banks and non-bank financials

Sources: ASX; RBA



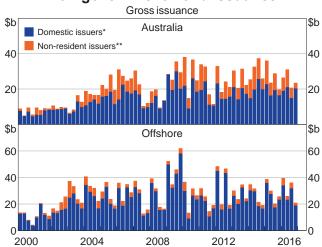
Bond Issuance



- * Excludes bonds purchased by the Australian Government
- ** Excludes ADIs' self-securitisations, includes government-guaranteed bonds

Sources: ABS; AOFM; RBA; State Treasury Corporations

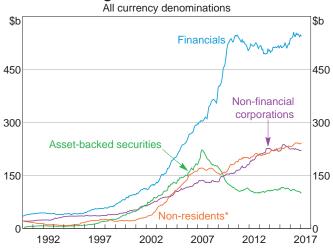
Non-government Bond Issuance



- Excludes ADIs' self-securitisations
- ** Offshore non-resident issuance includes Australian dollar-denominated bonds only

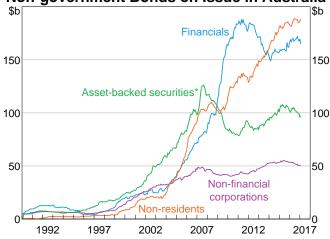
Source: RBA

Total Non-government Bonds on Issue



* Australian dollar-denominated bonds only Sources: ABS; RBA

Non-government Bonds on Issue in Australia

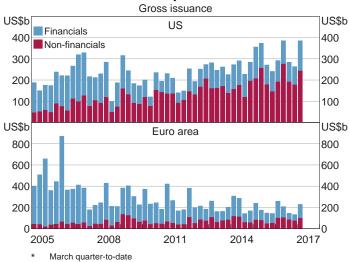


* Excludes ADIs' self-securitisations Sources: ABS; RBA



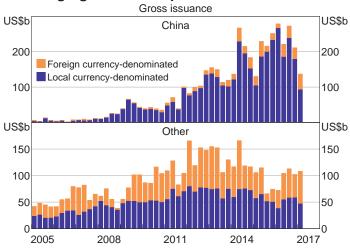
Bond Issuance

US and Euro Area Corporate Bond Issuance*



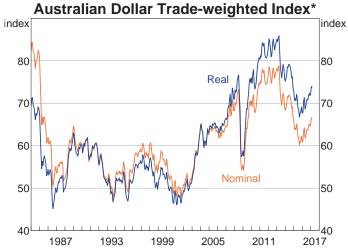
March quarter-to-date
 Sources: Dealogic; RBA

Emerging Market Corporate Bond Issuance*

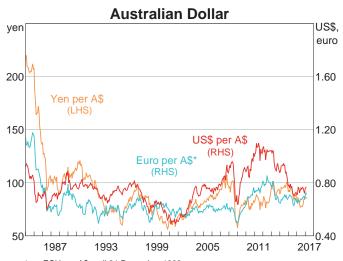


* March quarter-to-date Sources: Dealogic; RBA

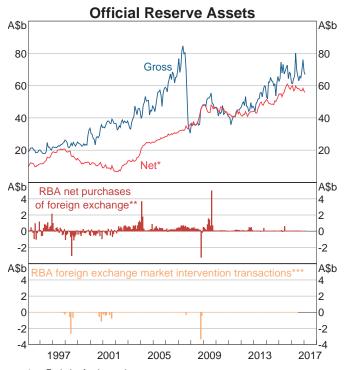
Exchange Rates



 May 1970 = 100 for nominal; real indexed to equate post-float averages; latest observations for real TWI are estimates
 Sources: ABS; RBA; Thomson Reuters; WM/Reuters



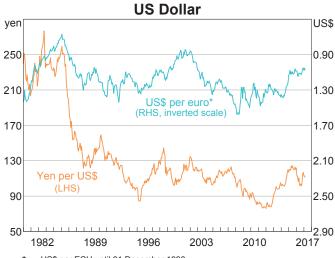
* ECU per A\$ until 31 December 1998 Sources: Thomson Reuters; WM/Reuters



- Excludes foreign exchange swaps
- ** Includes market, government and other outright transactions, excludes swap deliveries
- *** Data up to 30 June 2016; a positive value indicates a purchase of foreign exchange, while a negative value indicates a sale of foreign exchange

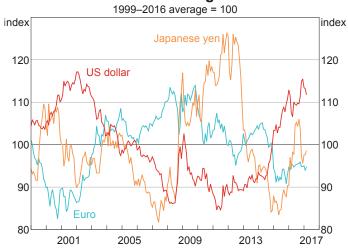
Source: RBA

Exchange Rates



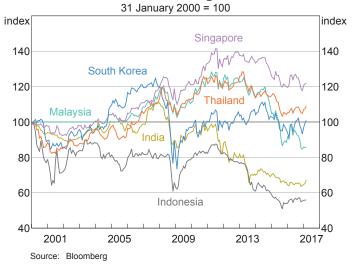
* US\$ per ECU until 31 December 1998 Sources: Bloomberg; Eurostat

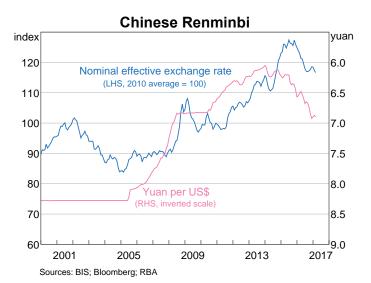
G3 Nominal Trade-weighted Indices



Sources: BIS; Bloomberg; Board of Governors of the Federal Reserve System

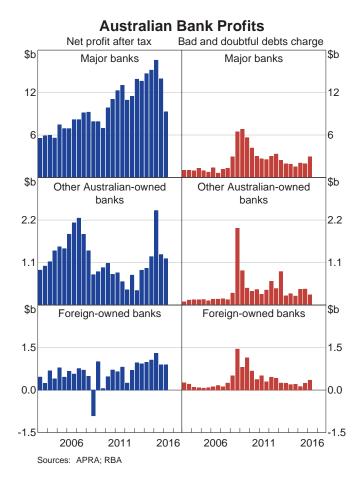
Selected Asian Currencies against the US Dollar



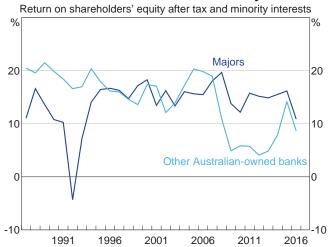




Banking Indicators



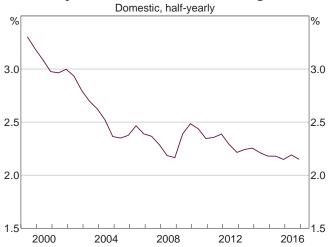
Australian Bank Profitability*



 Fiscal years from 2003 onwards; prior data are as reported in banks financial statements

Sources: APRA; Banks' annual reports; RBA

Major Banks' Net Interest Margin*



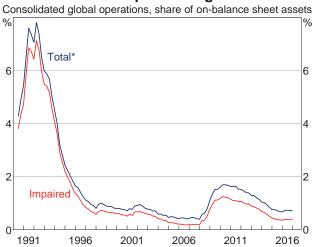
From 2006 data are on an IFRS basis; prior years are on AGAAP basis; excludes St George Bank and Bankwest prior to the first half of 2009

Sources: Banks' Financial Reports; RBA



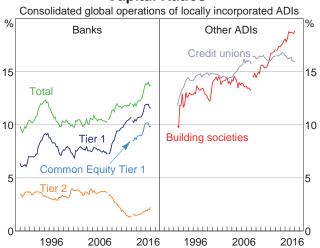
Banking Indicators

Banks' Non-performing Assets



 Includes assets 90+ days past due that are well secured Source: APRA

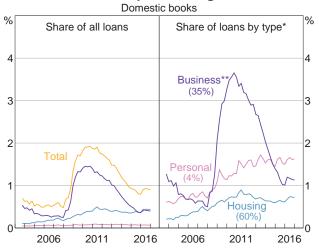
Capital Ratios*



Per cent of risk-weighted assets; break in March 2008 due to the introduction of Basel II for most ADIs; break in March 2013 due to the introduction of Basel III for all ADIs

Source: APRA

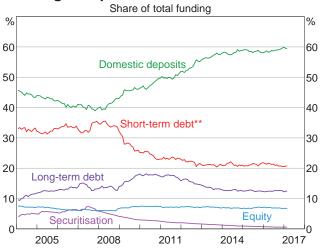
Banks' Non-performing Assets



- Each category's share of total domestic lending at December 2016 is shown in parentheses; shares may not add up to 100 due to rounding
- ** Includes lending to financial businesses, bills, debt securities and other non-household loans

Sources: APRA; RBA

Funding Composition of Banks in Australia*



- Adjusted for movements in foreign exchange rates; tenor of debt is estimated on a residual maturity basis
- ** Includes deposits and intragroup funding from non-residents Sources: APRA; RBA; Standard & Poor's

