

Teacher Immersion Event 2024

H.C. Coombs Centre, Kirribilli 19 July 2024

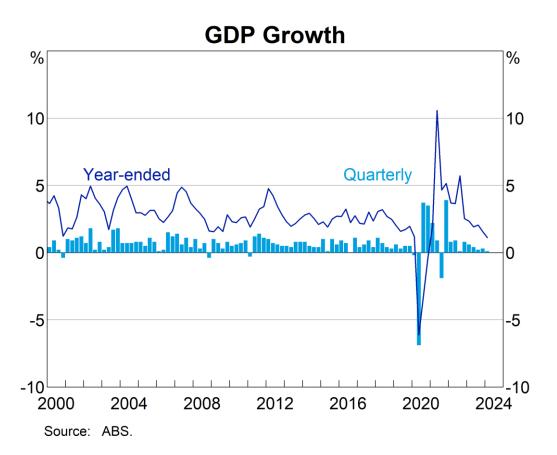
Education



Explaining and Teaching Economic Concepts in the Classroom Economic Growth



Economic Growth Kate McLoughlin (Economic Analysis Department)



Who and what?*

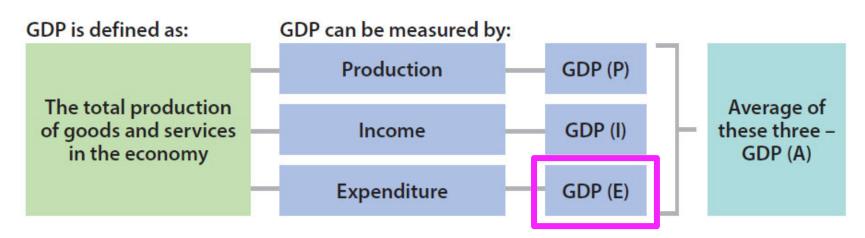




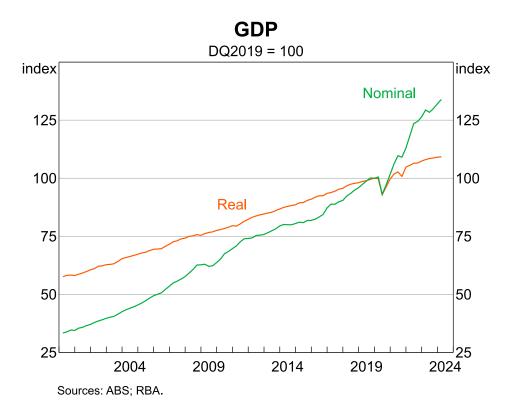
*It's a lot more fun than these pictures suggest!

GDP (A) – average of 3 imperfect measures

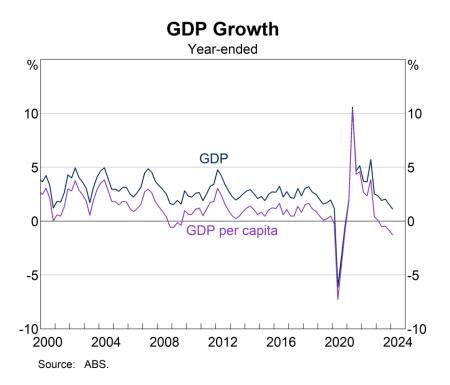
How is GDP Measured?

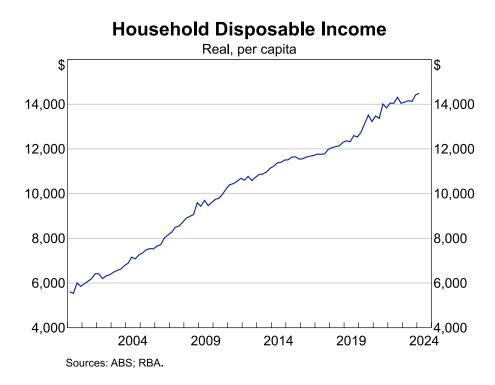


Nominal and real GDP...

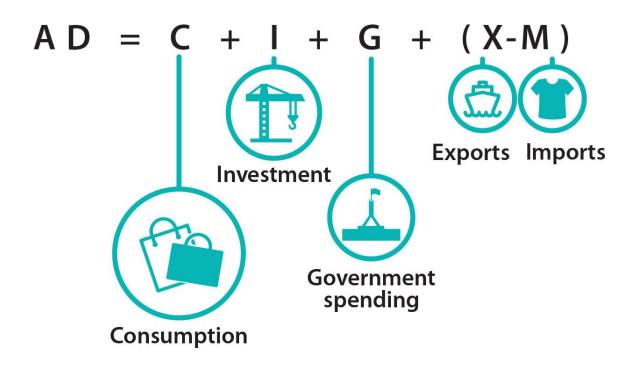


What about living standards?

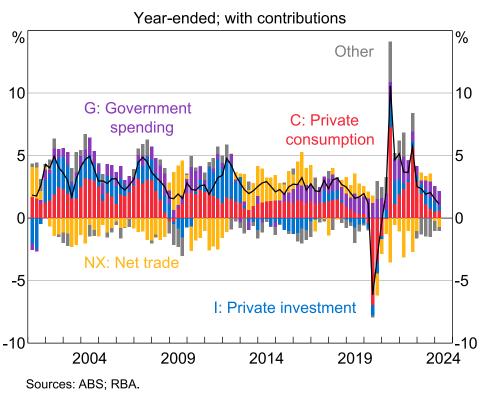




The GDP equation:

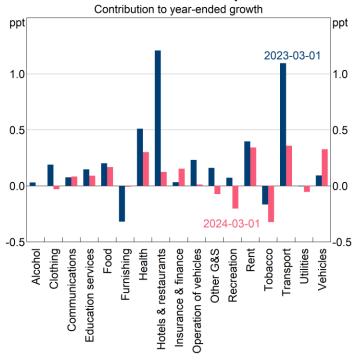


GDP



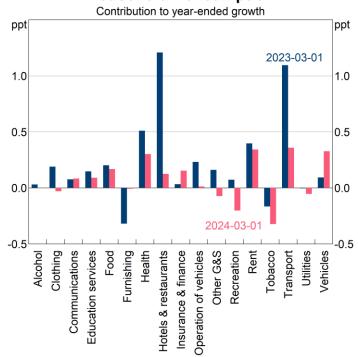
C: Consumption – of what and by whom?

Household Consumption



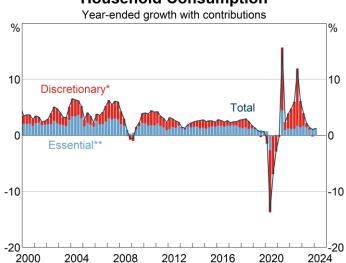
Source: ABS.

Household Consumption



Source: ABS.

Household Consumption

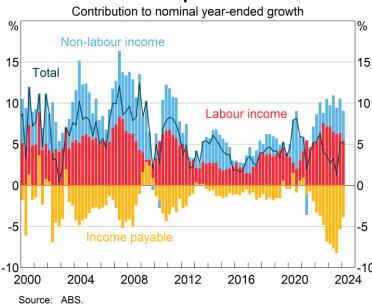


- * Includes furnishing & household equipment, clothing & footwear, recreation & culture, motor vehicle sales, alcohol & tobacco, air & water transport, hotels, cafes & restaurants, and 'other goods and services'
- ** Calculated as a residual; includes categories such as food, housing, health, education and utilities

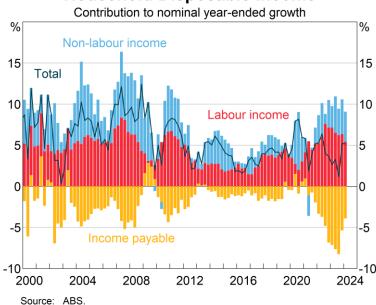
Sources: ABS; RBA.

What supports C? a bit of GDP(I)

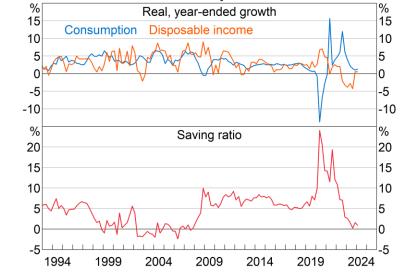
Household Disposable Income



Household Disposable Income



Household sector includes unincorporated enterprises; disposable income is after tax and interest payments; saving ratio is net of depreciation

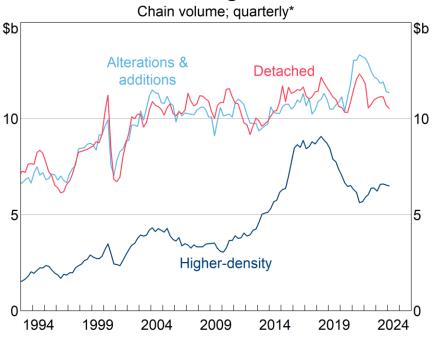


Household Consumption and Income

Source: ABS.

I: Investment (private)... Housing

Private Dwelling Investment

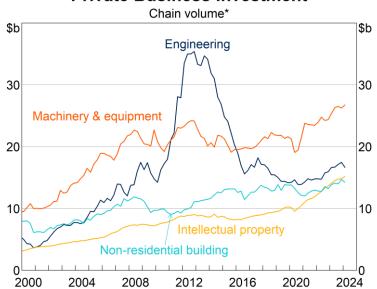


Reference year is 2021/22

Sources: ABS; RBA.

I: Investment (private)... Firms' investment

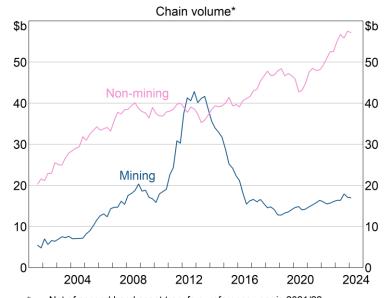
Private Business Investment



 Adjusted for second-hand asset transfers between the private and other sectors; reference year is 2021/22

Sources: ABS; RBA.

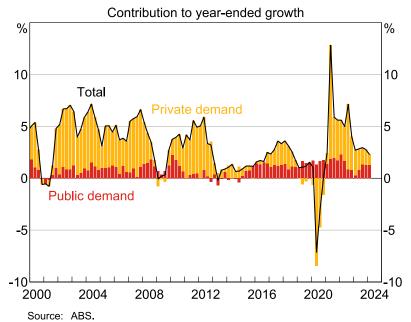
Private Business Investment



Net of second hand asset transfers; reference year is 2021/22
 Source: ABS.

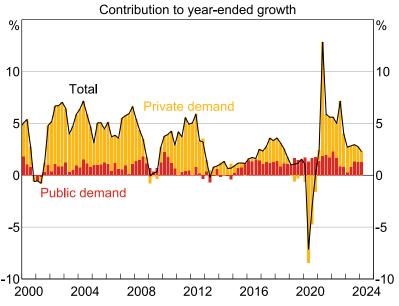
G: Governments' expenditure

Domestic Final Demand



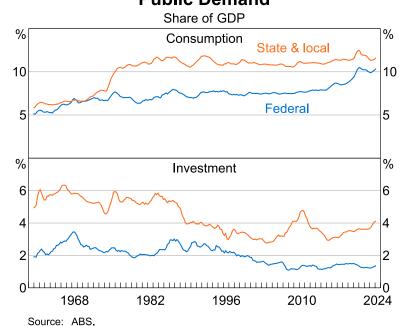
Note: DFD=C+I+G

Domestic Final Demand



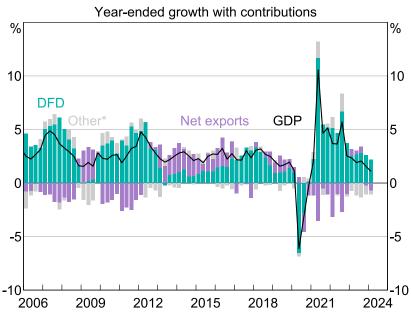
Source: ABS.

Public Demand



NX: Net Exports = Exports – Imports

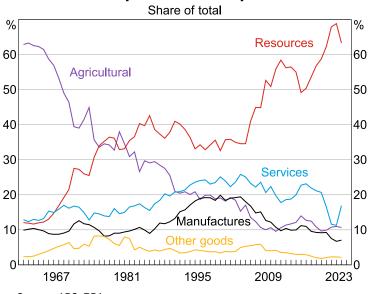
Domestic and External Growth



Changes in inventories and statistical discrepancy

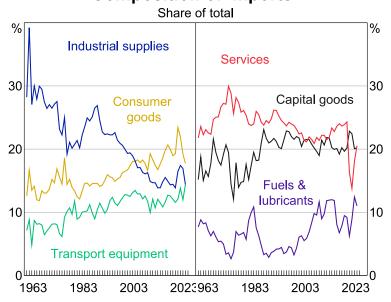
What do we trade?

Composition of Exports



Sources: ABS; RBA.

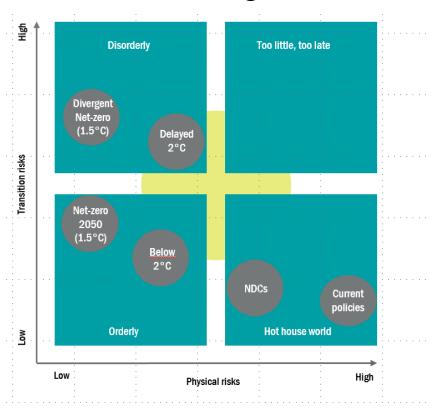
Composition of Imports*



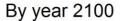
* The 'other goods' category has not been shown but is small. Sources: ABS; RBA.

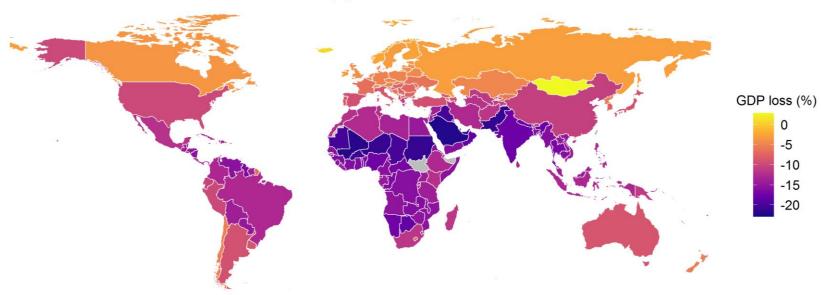
GDP and the environment

The effects of climate change are uncertain...



GDP losses in an NGFS hot-house-world scenario





Note: Based on the second generation of NGFS scenarios

Source: NGFS

Where to learn more



What is Economic Growth?

Economic growth refers to an increase in the size of To measure GDP each guarter, the Australian Bureau a country's economy over a period of time. The size of Statistics (ABS) collects data from households, of an economy is typically measured by the total production of goods and services in the economy, which is called gross domestic product (GDP).

Economic growth can be measured in 'nominal' or 'real' terms. Nominal economic growth refers to the increase in the dollar value of production over time. This includes changes in both the volume of production and the prices of goods and services produced. Economists normally talk about real economic growth - that is, increases in the volume produced only, which takes away the effect of prices changing. This is because it better reflects how much a country is producing at a given time, compared with other points in time.

How is GDP Measured?

companies and government agencies. The ABS then calculates GDP in three different ways, looking separately at information about production (P), income (I) and expenditure (E). The three definitions

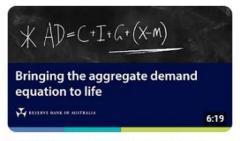
- · GDP(P): total value added from goods and services produced
- GDP(I): total income generated by employees and businesses (plus taxes less subsidies)
- · GDP(E): total value of expenditure by consumers, businesses and governments on final goods and services.

These are three different ways to estimate the same thing. In practice, different results can be obtained because there are never enough data to build a complete picture of the economy. Many economic activities have to be estimated and measurement errors arise. In Australia, the ABS and economists generally focus on the average of the three measures - GDP(A).

How is GDP Measured?



RESERVE BANK OF AUSTRALIA | Education Economic Growth 1



Bringing the aggregate demand equation to life



Current Economic Conditions - data as at 1 May 2024

rba.gov.au/education

Aggregate Demand and Aggregate Supply

13 August 2020

A Video Explainer exploring concepts and issues related to aggregate demand, aggregate supply and the business cycle



Gross Domestic Product (GDP)

14 July 2020

A Video Explainer exploring concepts and issues related to Gross Domestic Product (GDP)



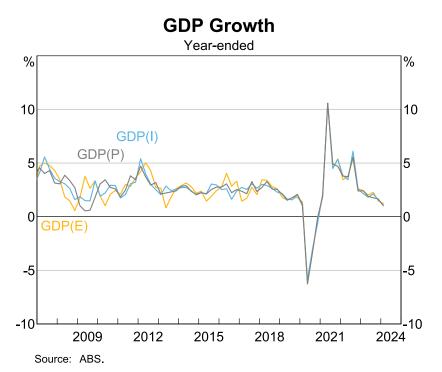
Measuring Economic Variables (Nominal v Real)

14 July 2020

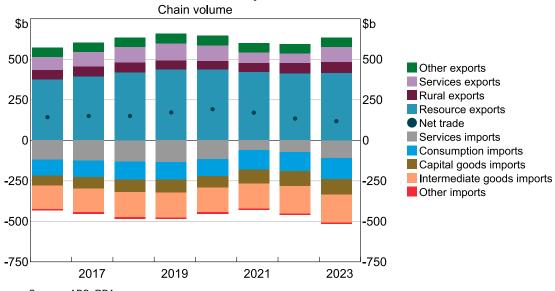
A Video Explainer exploring concepts related to the measurement of economic variables



Spare graphs







Sources: ABS; RBA.

Table 1: Impacts of climate change in key macroeconomic variables

	Acute physical risk (short to medium term)	Chronic physical risk (medium to long term	Transition risk (medium to long term)
Output	\	\	^/↓
Consumption	\uparrow/\downarrow	\uparrow/\downarrow	\uparrow / \downarrow
Investment	\downarrow	\uparrow/\downarrow	\uparrow / \downarrow
Productivity	\downarrow	\downarrow	\uparrow/\downarrow
Unemployment	\uparrow	\uparrow	\uparrow/\downarrow
Wages	\uparrow/\downarrow	\downarrow	\uparrow/\downarrow
Inflation	\uparrow/\downarrow	\uparrow/\downarrow	\uparrow / \downarrow

Source: adapted from NGFS (2020)