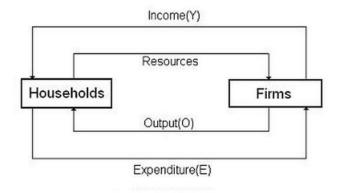
1. EXPENDITURE METHOD

- Assumes there are four groups in the economy
 - I. Households (consumption expenditure)
 - II. Firms (Investment)
 - III. Government (Govt purchases)
 - IV. Foreign sector (Net exports)
- Sum of these four groups equal total GDP creates the <u>national income accounting</u> model

$$Y = C + I + G + NX$$

- 2. INCOME METHOD (distribution of income through an economy) d
 - GDP = Labour income + Capital income
 - Labour income = Wages, salaries, incomes of self employed
 - o Capital income = Payment to owners of physical and intangible capital
 - Represented by a simple circular flow diagram



SUMMARY OF THE 3 FORMS OF MEASURING GDP (IPAD SOLD)

- 1. Value added: Sum of value of each firm
- 2. Expenditure approach: Expenditure spent (Summarized by national income accounting model)
- 3. Income approach: Distribution/sum of income earned for good/service in an economy

Two important aspects for measuring GDP:

- 1. Measuring GDP over time
 - Must account for inflation or deflation
 - Nominal: GDP that hasn't been adjusted for price change
 - Real: GDP that has been adjusted for price change

Real GDP = Current year quantity x Base year price

2. GDP is different from measuring economic wellbeing:

Does not include:

- Leisure time
- Non-market activities (Housework/voluntary work)
- Underground economy (Legal babysitting, illegal drug dealing etc.)
- Environmental quality/resource depletion
 - Increased production = higher GDP but can = lower environmental wellbeing (pollution etc.)
 - Exploitation of minerals (oil) 1 barrel sold = higher GDP but also 1 less barrel too sell in the future <u>finite resource</u>
- Does not include the quality of life

- Low crime rates, limited traffic congestion etc. not considered for GDP
- Does not take into account poverty/income inequality
 - Aus: High GDP but 10% of population living in poverty

What is the consumer price index and inflation?

- Why do we study prices in macroeconomics?
 - Economy is affected by changes in price (inflation/deflation)
 - o Tells us how much things cost
 - Need to maintain a 'real' currency value
- The CPI is a measure of the 'cost of living' based on prices in a period for a typical basket of goods and services

$$CPI = \frac{Current\ price\ for\ a\ basket\ of\ goods}{Base\ year\ price\ for\ a\ basket\ of\ goods}$$

<mark>ltem</mark>	QTY (B1)	PR (B1)	COST (B1)	PR (B2)	COST (B2)
Rent 2	1	\$500	\$500	\$630	\$630
bedroom					
apartment					
Hamburger	60	\$2	\$120	\$2.50	\$150
Movie ticket	10	\$6	\$60	\$7	\$70
Total			\$680		\$850

$$CPI = \frac{850}{680}$$

Therefore, CPI = 1.25x for second basket of goods.

 Inflation is the increase in the price for goods and services over a given period of time

$$Inflation for year 2 = \frac{CPIyear2 - CPIyear1}{CPIyear1}x100$$

Measurement of the consumer price index:

- A CPI can be used to adjust nominal (eliminates the effect of price change)
- E.G. Income ↑ VS inflation

 10% 25% Worse off as inflation>income
- Can be used to convert real quantities to nominal quantities (Indexing)
 - E.g. WA paid pensioners \$1000 in 2005. What should these pensioners be paid in 2016? – <u>Depends on inflation</u>
 - CPI = \$1.00 in 2005 and \$1.20 in 2016. Inflation equals \$1.20-\$1.00/\$1.00 x 100 = 20%
 - Pensioners should be paid 20% higher
- · Does CPI measure true inflation?
 - No, only estimates, due too:
 - Quality adjustment bias: Price ↑ can be associated with quality

Investment and capital formation:

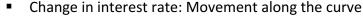
- Investment: Creation of new capital goods and housing
 - Critical to increase productivity + living standards

- Usually takes place via financial markets (people borrow too invest)
- Decision to invest: Cost benefit principle
 - 'Is expected costs less then expected benefit'

IF GIVEN A QUESTION ON COST BENEFIT (LAWNMOWER EXAMPLE) ALWAYS DIVIDE INTO BENEFITS AND COST SECTION THEN WEIGH THEM AGAINST EACH OTHER.

Saving investment and the financial market:

- Equilibrium: National saving = national investment
 - Shows level of saving/investment @ particular times in the economy
 - Saving: Upward sloping higher interest rate = more benefit in saving
 - Investment: Downwards sloping –
 Higher interest rate increases cost of
 borrowing decreases firm's
 willingness to invest.
- Firms invest by:
 - o Borrowing in the financial market
 - Using own accumulated profits
- If S>I?
 - Excess supply of saving
 - Real interest rate would adjust and decrease so S = I



- Changes in anything else: Curve shifts
 - New technology: Investment shifts right increase demand



The perfectly competitive market for labour and labour market trends:

- Assumes that firms and workers are wage takers
 - Cannot affect the price of labour (wage rate)
- Quantity of labour: Amount of labour firms use
 - Usually measured by # of workers/hours worked

5 key labour market trends for Australia:

- 1. Since the 1970's Australia has enjoyed substantial real growth earnings. (2012 1.79x better than 1969)
- 2. Since the 1970's real wage growth has slowed (particularly for men)
 - Introduction of women to the workforce
 - Economic prosperity slowing (after mining boom)
- 3. Increase in economic inequality from top to bottom earners

