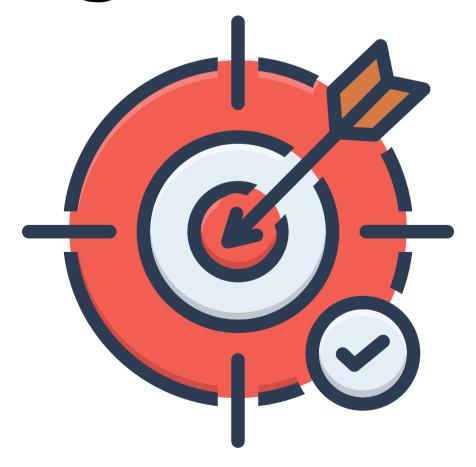
Macroecononics

3.1



Macreconomic Objectives



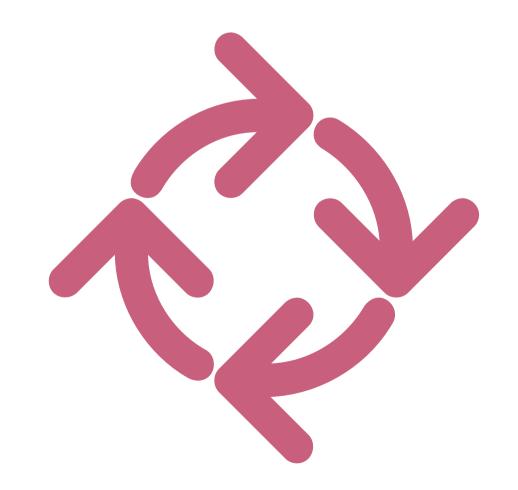
3 Macro Objectives

- 1. Economic Growth
- 2.Low Unemployment Rate
- 3.Low and Stable Inflation

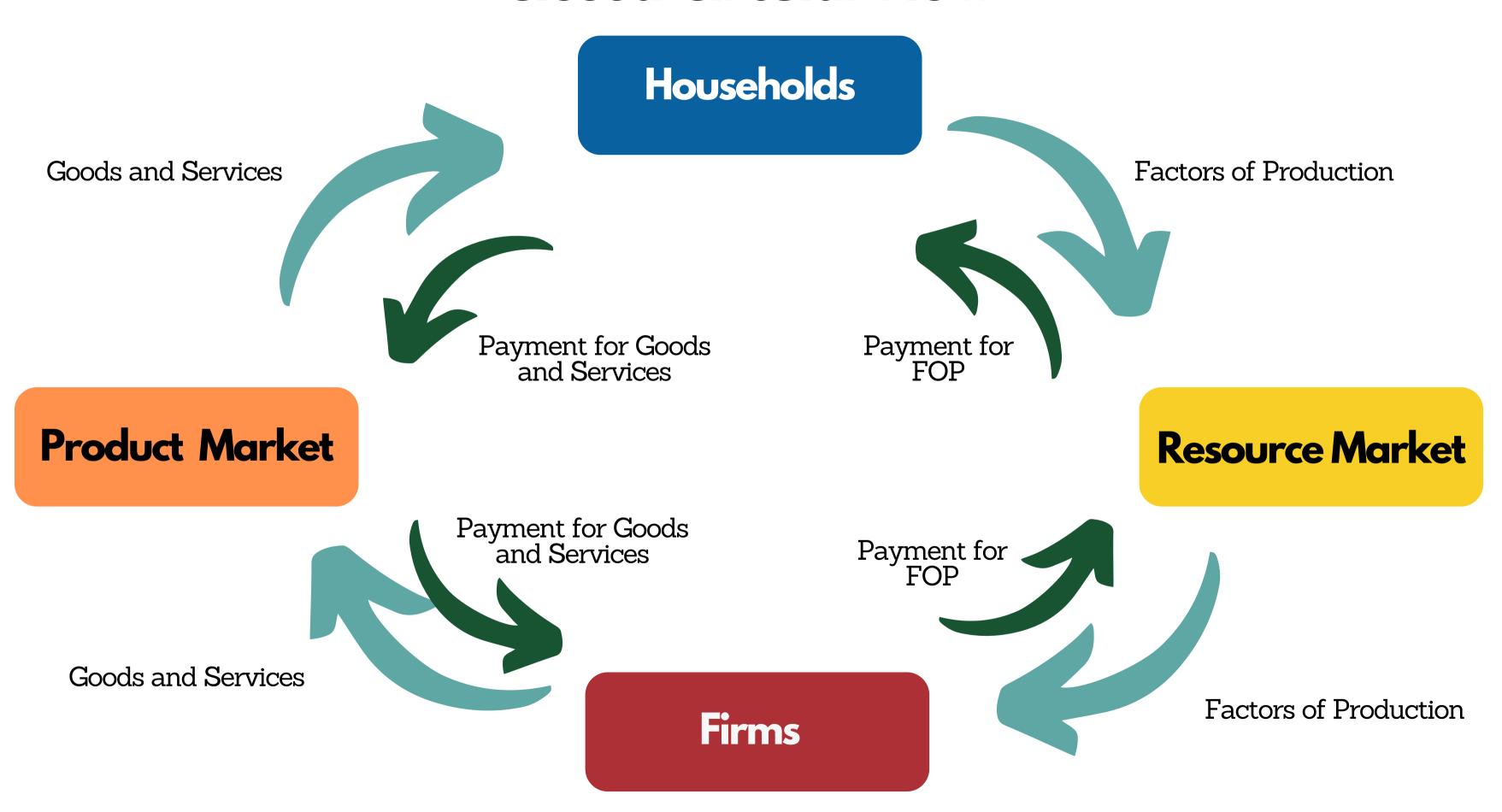


Possible additional goals: Sustainable Debt, Equity, and Income Distribution

Circular Flow

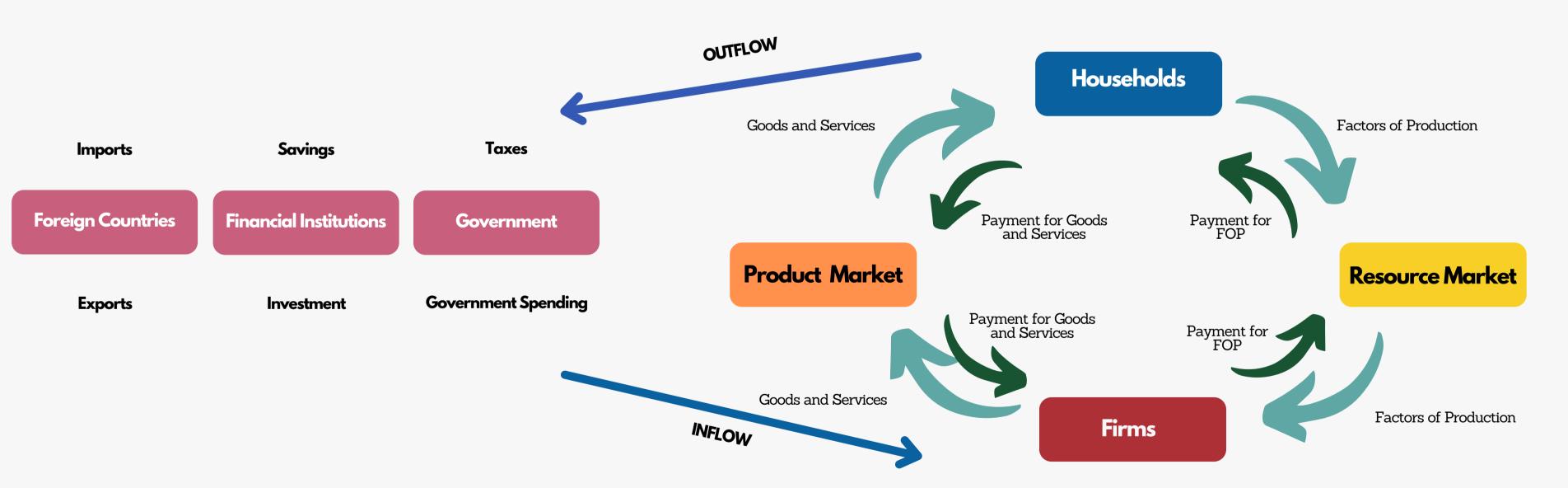


Closed Circular Flow



Open Circular Flow

Leakages – Money that flows out of an economy (Savings, Taxes, Imports) **Injections –** Money that flows into an economy (Investments, Government Spending, Exports)



Intro Activity

Select a country and research the following for the last 5 years:

- Levels of GDP, Real GDP, and GDP Per Capita
 Rate of Inflation
- Rate of UnemploymentIncome Distribution
- Trade Balance (Level of Exports vs Level of Imports)

Then ...

Create a visual using that information and Kognity to:

- Define each Indicator
- Explain each figure and what they demonstrate
- Explain the impact on stakeholders
- Your comment on the current state of the economy.

Measuring Economic Activity

Gross Domestic Product



The total MONETARY value of all FINAL goods and services produced DOMESTICALLY within a YEAR.

The most common tool, with it's various alterations, to measure economic growth.

Problems arise due to MNC(Multinational Corporations).

GDP Formula



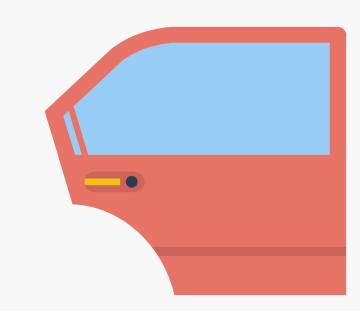
$$GDP = C + I + G + (X-M)$$

- C Consumption Purchases on final goods and services by individuals.
- I Investment Business spending on tools and equipment.
- G Government Spending Schools, Roads, Military
- (X-M) Net Exports

Things Not Included in GDP

Intermediate Goods

- Goods used in the production of final goods and services



Non-Production Transactions

- Used Goods
- Financial Transactions





Illegal Activities



Included or Not?

Determine whether each component is included or not in GDP for Germany. Upon completion, calculate the GDP.

- 1. 7 Euros for a meal
- 2. 1 Million Euro for military expenditures
- 3. 6,000 Euros for a used car
- 4. BMW invests 5 Million Euros for a new factory
- 5. 20,000 Euros for an Audi made and sold in the US
- 6. 45,000 Euro profit from selling stocks
- 7. 15,000 Euro Volkswagen made in Germany and sold in China
- 8. 10,000 Euro for a house remodel
- 9. 200 Euro welfare payment to low-income families
- 10. 100,000 Euro for a new office building for a start-up company.

Included or Not?

GDP = 6, 125, 007

- 1. 7 Euros for a meal
- 2. 1 Million Euro for military expenditures
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To account for MNCs ... we use

Gross National Product (GNP)

The total monetary value of all final goods and services produced by factors owned by the country's citizens in a given period of time.

Gross National Income (GNI)

The total income of a nation's people and businesses.

National Income

Measure of total economic activity that takes place within an economy.



How to measure National Income?

Output Method

Firms provide figures for their output during the year.

Benefits

- Allows for good statistical data based on sectors.

<u>Problems</u>

- Does not include informal economic activities



How to measure National Income?

Income Method

Done by adding up all the income earned by groups when the factors of production are sold in resource markets.

Benefits

- Relatively simple if all jobs are registered.

Problems

As before, does not include unregistered payments or "under the table" money.

- Corruption and criminal activities could distort statistics
- Informal jobs such as babysitting would also not be counted.

How to measure National Income?

Expenditure Method

Done by adding up total sales receipts for goods and services sold in the economy.

Benefits

- In a closed economy, this is simple Consumption. However, in an open economy many other variables are at play such as government spending, investment, and Net Export

Most Commonly Used



GNI Formula

Expenditure Method

GNI = GDP + (Incomes flowing into the country – Incomesflowing out of the country)



Practice



Practice

Calculate GDP for France using the expenditure method.

Category	Value in Euros in Millions
Consumption	900
Investment	500
Government Spending	750
Imports	600
Exports	500

Solution

Practice

Calculate GNI for France using the expenditure method.

Category	Value in Euros in Millions
Consumption	900
Investment	500
Government Spending	750
Imports	600
Exports	500
Outward Income Flows	400
Inward Income Flows	600

Solution

GNI = 2050 + (600-400) 2250 Euros (Millions)

What do you think is the most popular movie of all time?



Nominal Box Office Receipts

What is the problem here?



Rank +	Peak 	Title \$	Worldwide gross ♦	Year 	Reference(s)
1	1	Avatar	\$2,847,246,203	2009	[# 1][# 2]
2	1	Avengers: Endgame	\$2,797,501,328	2019	[# 3][# 4]
3	1	Titanic	\$2,187,425,379	1997	[# 5][# 6]
4	3	Star Wars: The Force Awakens	\$2,068,223,624	2015	[# 7][# 8]
5	4	Avengers: Infinity War	\$2,048,359,754	2018	[# 9][# 10]
6	6	Spider-Man: No Way Home †	\$1,740,845,239	2021	[# 11]
7	3	Jurassic World	\$1,671,713,208	2015	[# 12][# 13]
8	7	The Lion King	\$1,656,943,394	2019	[# 14][# 4]
9	3	The Avengers	\$1,518,812,988	2012	[# 15][# 16]
10	4	Furious 7	\$1,516,045,911	2015	[# 17][# 18]
11	10	Frozen II	\$1,450,026,933	2019	[# 19][# 20]
12	5	Avengers: Age of Ultron	\$1,402,809,540	2015	[# 21][# 18]
13	9	Black Panther	\$1,347,280,838	2018	[# 22][# 23]
14	3	Harry Potter and the Deathly Hallows – Part 2	\$1,342,025,430	2011	[# 24][# 25]
15	9	Star Wars: The Last Jedi	\$1,332,539,889	2017	[# 26][# 27]
16	12	Jurassic World: Fallen Kingdom	\$1,309,484,461	2018	[# 28][# 10]
17	5	Frozen	F\$1,290,000,000	2013	[# 29][# 30]
18	10	Beauty and the Beast	\$1,263,521,126	2017	[# 31][# 32]
19	15	Incredibles 2	\$1,242,805,359	2018	[# 33][# 10]
20	11	The Fate of the Furious	F8\$1,238,764,765	2017	[# 34][# 32]

Adjusted for Inflation



Real Box Office Receipts

Highest-grossing films as of 2020 adjusted for inflation^{[31][Inf]}

Rank	Title	Worldwide gross (2020 \$)	Year
1	Gone with the Wind	\$3,739,000,000	1939
2	Avatar	A\$3,286,000,000	2009
3	Titanic	^T \$3,108,000,000	1997
4	Star Wars	\$3,071,000,000	1977
5	Avengers: Endgame	AE\$2,823,000,000	2019
6	The Sound of Music	\$2,572,000,000	1965
7	E.T. the Extra-Terrestrial	\$2,511,000,000	1982
8	The Ten Commandments	\$2,377,000,000	1956
9	Doctor Zhivago	\$2,253,000,000	1965
10	Star Wars: The Force Awakens	\$2,221,000,000	2015

Real Vs Nominal GDP

Nominal GDP/GNI

GDP/GNI measured in current prices that does not account for inflation.

Real GDP/GNI

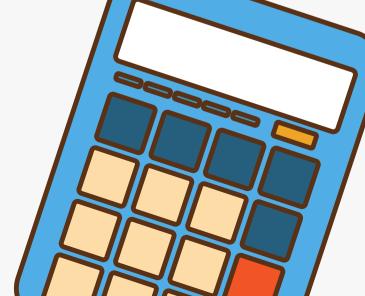
GDP/GNI that is adjusted for inflation.

Which is better to measure growth?

Real GDP/GNI

Calculated by using a "Deflator". These deflators essentially deflate the nominal values allowing for an accurate Real GDP.

Real GDP/GNI = Nominal GDP/GNI X 100
Price Deflator



Real GDP/GNI

Calculate the Real GDP for Mexico from 2016–2020.

Make a statement regarding the trend of the Real GDP data for Mexico

GDP Data for Mexico.

Year	Nominal GDP	Price Deflator
2016	7000	100
2017	8100	106
2018	8200	109
2019	8900	106
2020	9500	104

Real GDP/GNI

GDP Data for Mexico.

Year	Nominal GDP	Price Deflator	Real GDP
2016	7000	100	7000
2017	8100	106	7642
2018	8200	109	7523
2019	8900	106	8396
2020	9500	104	9135

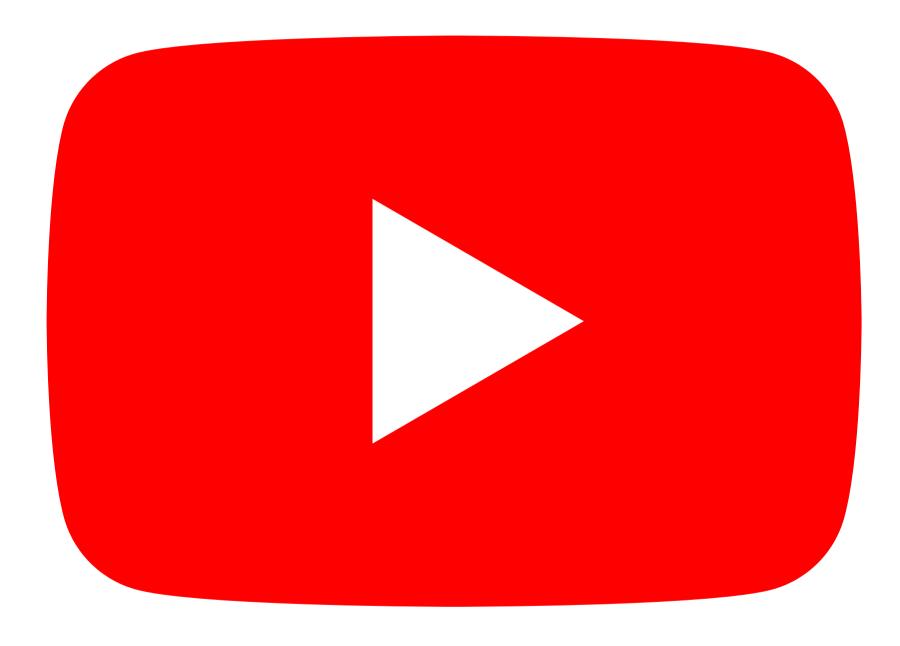
Purchasing Power Parity (PPP)

Gives an accurate depiction of the size of an economy by its power to purchase goods and services within that country.

Used to compare productivity and standards of living between countries by looking at relative costs of goods and services.



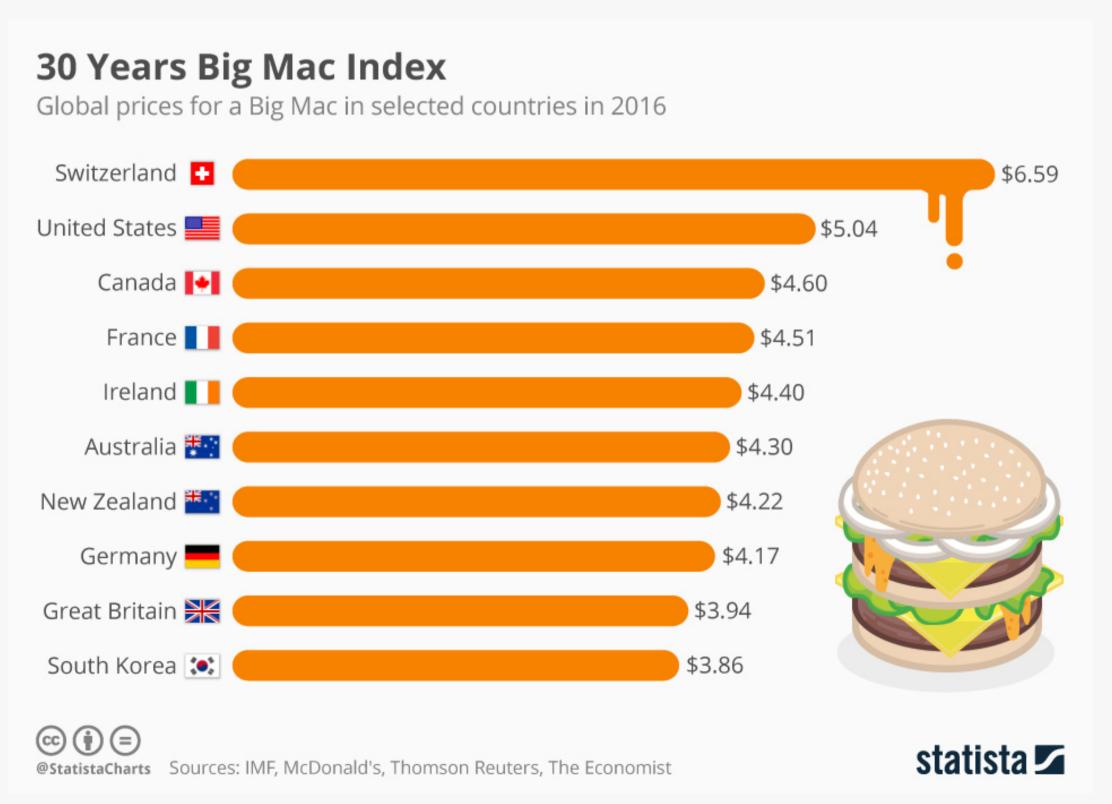
You may experience this when you travel. Basic goods and services can be cheaper or more expensive in other countries.



VISUAL CAPITALIST - THE WORLDS 10 LARGEST ECONOMIES IN 2030

Purchasing Power Parity (PPP)

Big Mac Index



GDP Per Capita

GDP divided by population. Gives an accurate depiction of the average income per citizen.



Pros and Cons of GDP

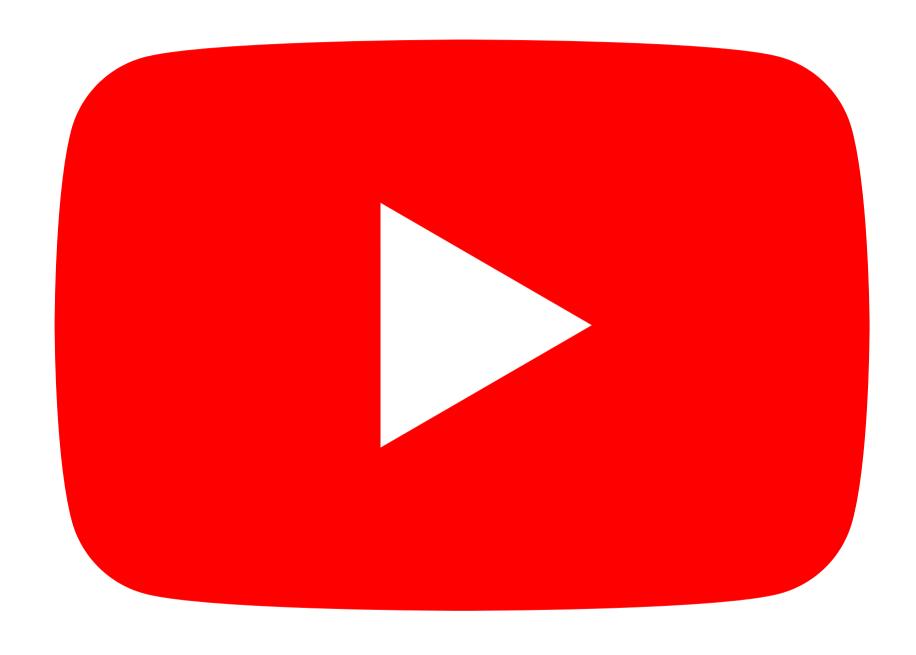


Advantages

- Easy to compare countries
- Informs Policymakers and agendas
- Gives an indication of average income (GDP Per Capita)

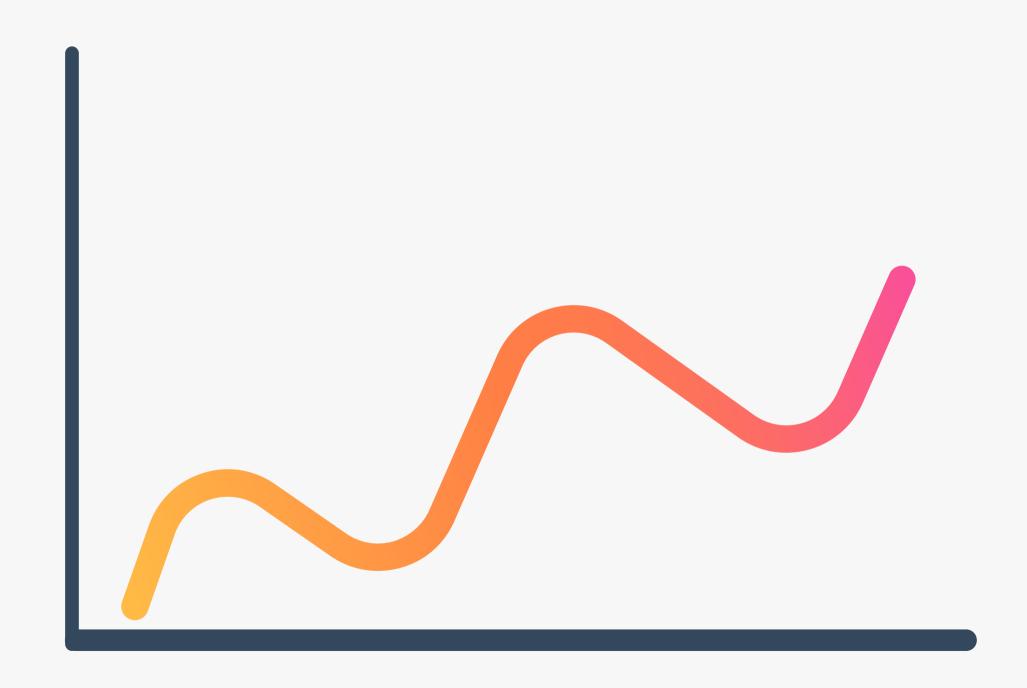
Limitations

- Overestimates quality of life
- Does not account for inequality or income disparity
- Difficult to measure and contains inaccuracies
- Does not account for improvement of quality

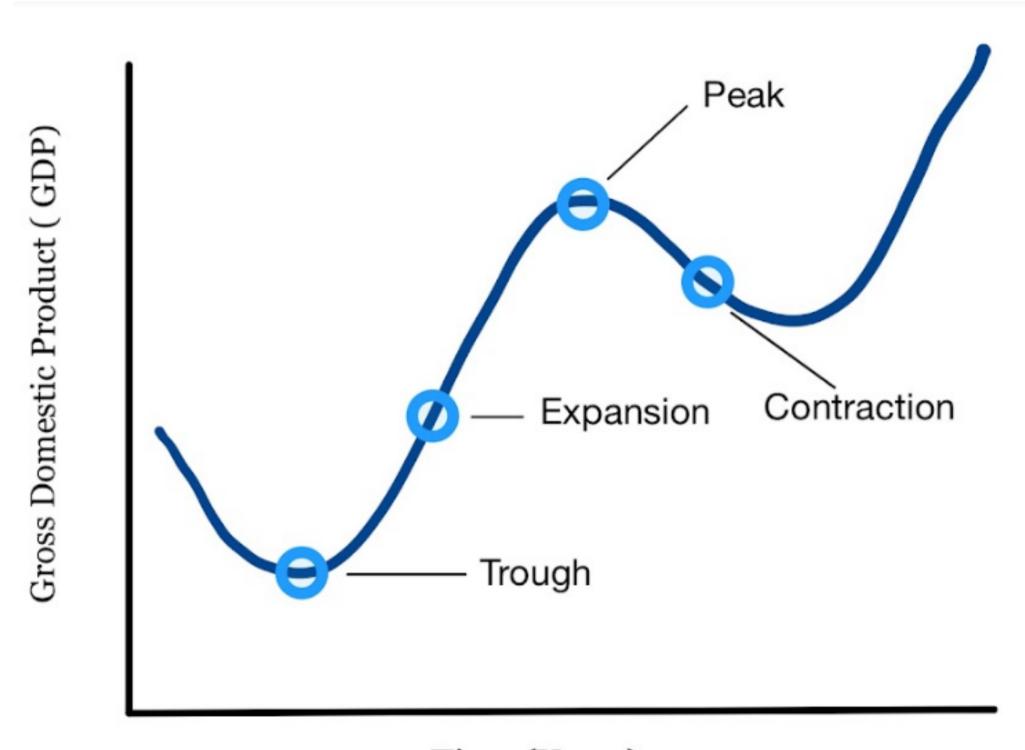


TIME TO FIX GDP?

The Business Cycle



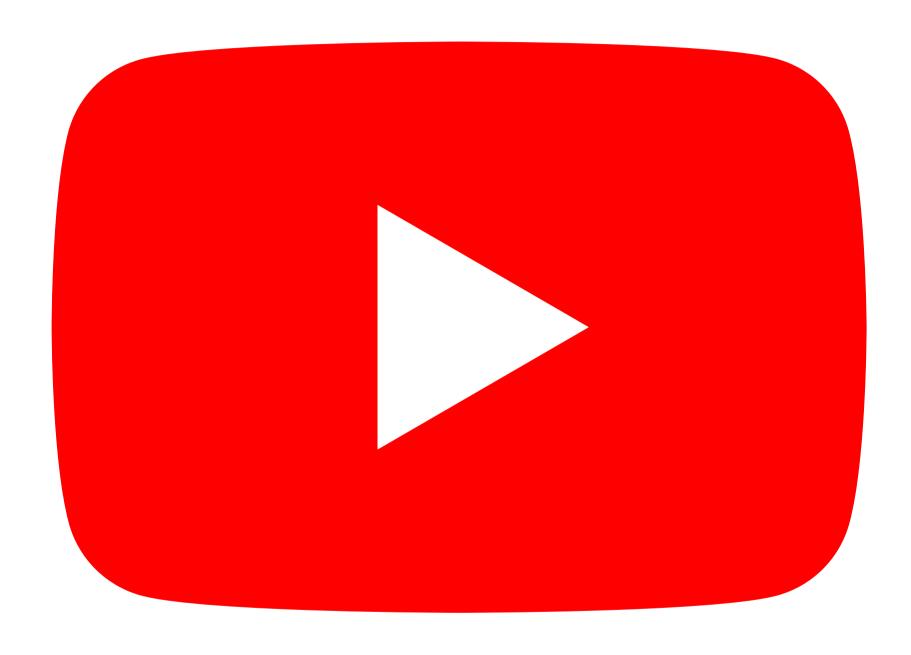
Business Cycle



Time (Years)

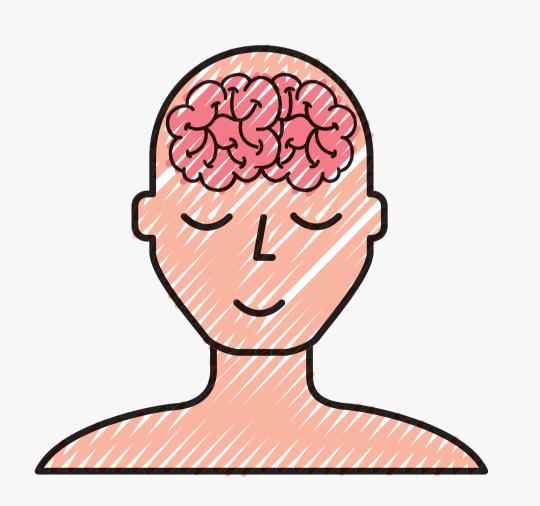
Business Cycle Activity

- 1. Draw the business cycle
- 2. Label Each of the main stages
- 3. Draw arrows on the business cycle to indicate what you believe happens to the following at EACH stage:
 - 1. GDP Growth
 - 2. Unemployment
 - 3. Inflation
 - 4. The relationship between exports and imports
 - 5. The relationship between actual and potential output



ACDC ECON - BUSINESS CYCLE

Alternative Measures of an Economic Well-Being



Alternative Measures

GDP and GNI don't take other factors into account such as well-being, happiness, environmental sustainability, etc.







Alternative Measures



OECD Better Life Index

Focuses on a specific subset of data such as health, education, income, life satisfaction, work-life balance, etc.

Happy Planet Index

life expectancy × well-being × inequality

ecological footprint

Happiness Index

Survey participants are asked to access their happiness on a "Cantril Ladder"

Practice Question



Paper 1 Part A

N18/3/ECONO/SP1/ENG/TZ0/XX

(a) Explain how an increase in leakages can affect the size of the circular flow of income. [10]



Check Answers

(a) Explain how an increase in leakages can affect the size of the circular flow of income.

[10]

Answers may include:

- definitions of leakages, circular flow of income
- diagram of the circular flow of income
- explanation that when leakages increase money flows in the circular flow of income will fall and reduce the size of the circular flow of income
- examples of where an increase in leakages have reduced national income.

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