Economic Growth

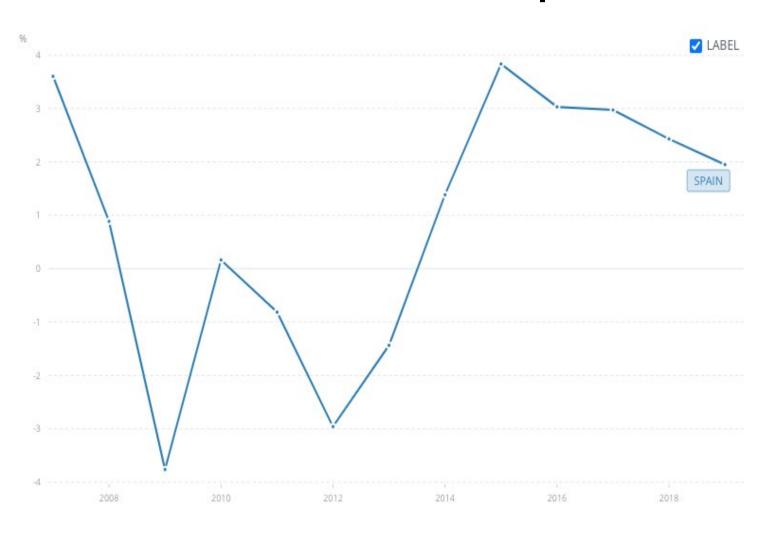
Economic growth is an increase in real GDP over a period of time and is usually expressed as a percentage change in...

- Real GDP
- Real GDP per capita

% change in real GDP =

 $\frac{\text{final value of real GDP-initial value of real GDP}}{\text{initial value of real GDP}} \times 100$

GDP Growth Rate for Spain



Economic Growth

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Calculating economic growth

1. Suppose an economy had real GDP per capita of of €1579 in 2017, €1611 in 2018 and €1597 in 2019.

Find the rate of economic growth...

- a) In 2017 2018
- b) In 2018 2019
- c) Did the economy experienced negative growth?
- 2. If an economy's real GDP grew by 2.2% and its population grew by 1.5% during the same year, how much did the real GDP per capita grow?

Economic Growth

Short-term and long-term growth

Type of Growth	AD-AS Model	PPC Model
Short-term	Increase in AD Increase in SRAS (New classical model)	Increase in actual output
Long-term	Increase in LRAS or Keynesian AS	Increase in production possibilities (capacity)

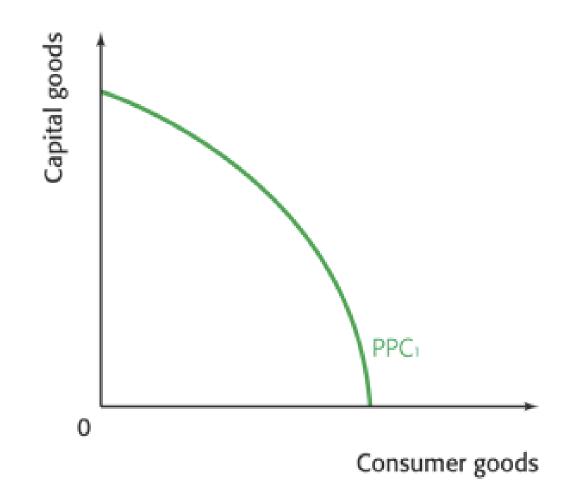
Economic Growth

Economic growth refers to an increase in real GDP over a period of time.

Production Possibilities Curve (PPC)

shows the combination of maximum output that can be produced by an economy with fixed resources and technology provided there is

- maximum employment of resources
- productive efficiency



Economic Growth

Economic growth refers to an increase in real GDP over a period of time.

Economic growth is caused by:

- Reductions in unemployment
- Increase in productive efficiency
- How would this be illustrated in a PPC diagram?



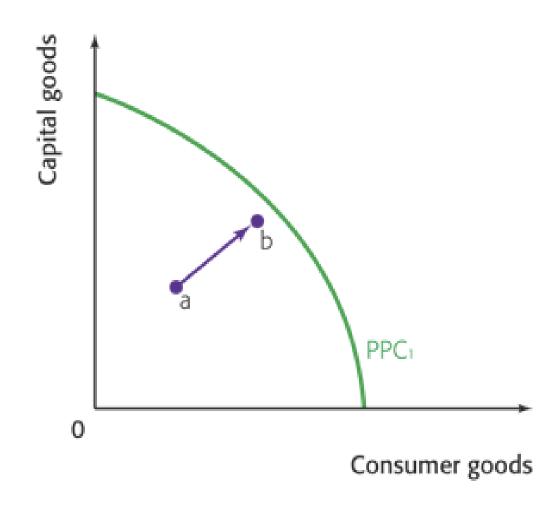
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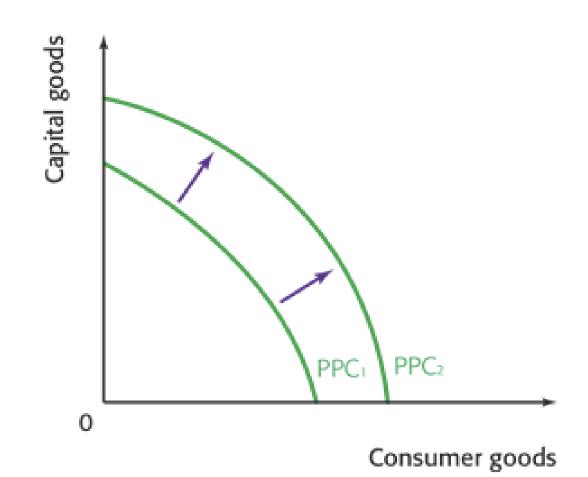
Economic Growth

Increases in Potential Output

Economic growth can also be seen as an increase in production possibilities (potential output) caused by increases in quantity or quality of resources.

Example:

- Population growth (quantity of labour)
- Higher educated labour force (quality of labour)

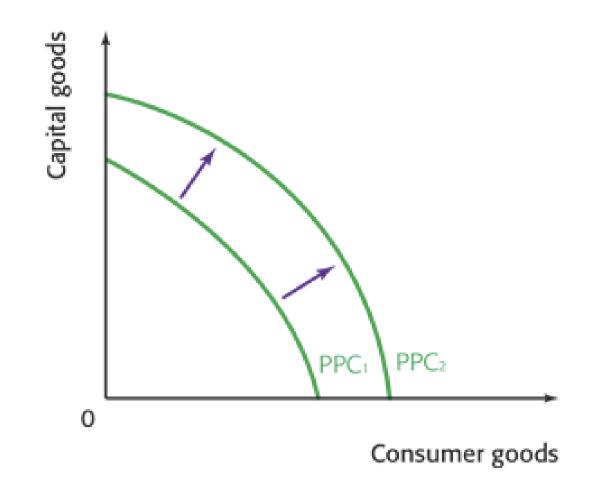


Economic Growth

Increases in Potential Output

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As its **PPC** increases, an economy must ensure unemployment and inefficiencies are reduced to ensure **actual output** continues to grow.

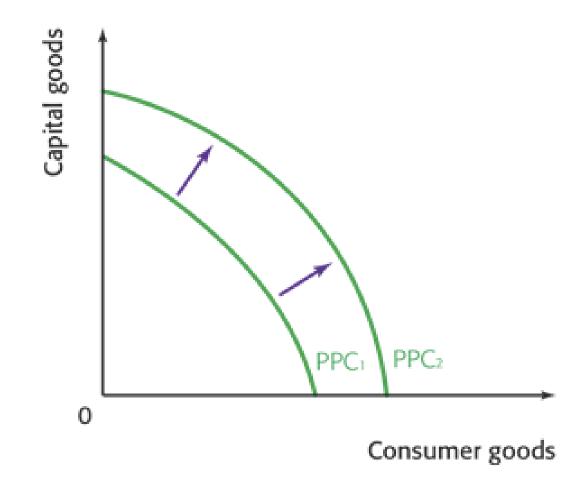


Economic Growth

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What if there is negative growth?

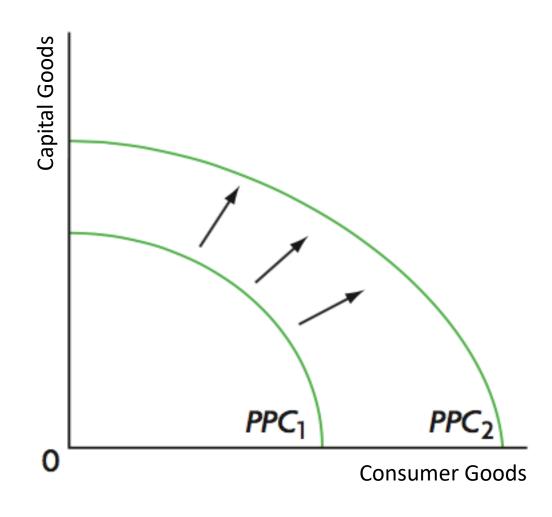


Economic Growth

Non-Parallel Shifts in PPC

A change favouring the production of one type of good may cause a non-parallel shift in the PPC.

- Mass production may favour the production of one particular good.
- Influx of unskilled workers may increase production of goods using relatively more unskilled labour.



Economic Growth

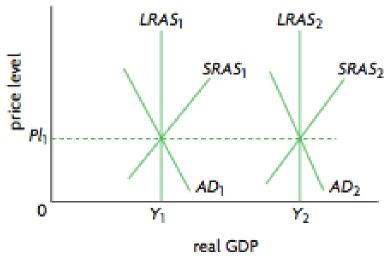
LRAS and Keynesian AS Curve

Economic growth in the context of the PPC model is very closely related to economic growth in the AD/AS and Keynesian AS model.

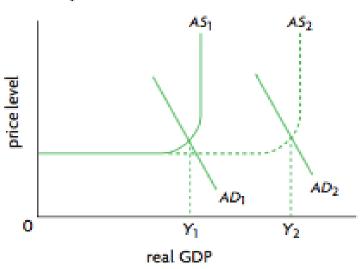
Improved efficiency and reduced unemployment in economy results in

- a rightward shift of the LRAS and Keynesian AS
- an outward shift of the PPC model





The Keynesian model



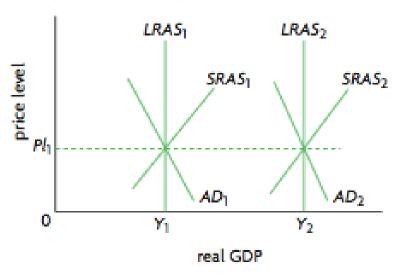
Economic Growth

LRAS and Keynesian AS Curve

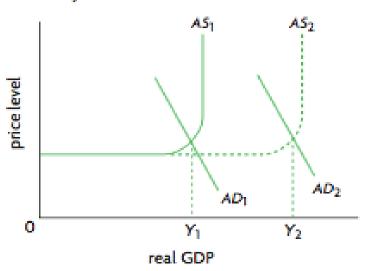
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AD-AS model	Factors causing growth	Production possibilities model
rightward LRAS shifts (increases in potential output)	increased resource quantity improved resource quality technological change improved efficiency only natural ← reduced unemployment → all types	outward PPC shifts (increases in production possibilities) movement of production point closer to PPC
	institutional changes	not included

The monetarist/new classical model



The Keynesian model



Economic Growth

LRAS and Keynesian AS Curve

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	institutional changes	not included	

	AD-AS model	PPC model
Short-term growth	 increases in AD increases in SRAS (less important) 	 reduction in unemployment improvement in efficiency
Long-term growth	 increased resource quantity improved resource quality technological change 	
	 improvements in efficiency institutional changes 	_

Economic Growth

Consequences

- Impact on living standards
- Impact on the environment
- Impact on income distribution

These consequences (whether positive or negative) are not inevitable – *it follow* from the way that growth pursued.



Economic Growth

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Living standards

Living standards refer to levels of income, wealth and consumption of goods and services.

An increase in **real GDP per capita**, indicates a greater potential for people to improve their **standards of living**.

The positive effects are dependent on...

Distribution of income	Household spending
Government spending	Contributions
on merit goods	of NGOs

Economic Growth

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Environment

Experience shows that growth often leads to unsustainable resource use.

Many governments have based their policies on the belief of 'grow now, clean up later'.

Problems with this way of thinking includes:

- Some environmental damage is irreversible
- Justifies government inaction on environment
- Both objectives are consistent with each other
- Resource depletion may hinder future growth

Economic Growth

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Income distribution

There is no clear relationship between growth in GDP per capita and income distribution.

Countries are experiencing increasing income inequalities and this has been a result of...

- Use market-based supply-side policies
- Introduction of capital intensive methods
- Low level of investments in human capital
- Neglecting infrastructure in the rural areas