

# Economic Notes

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# Economic Problem

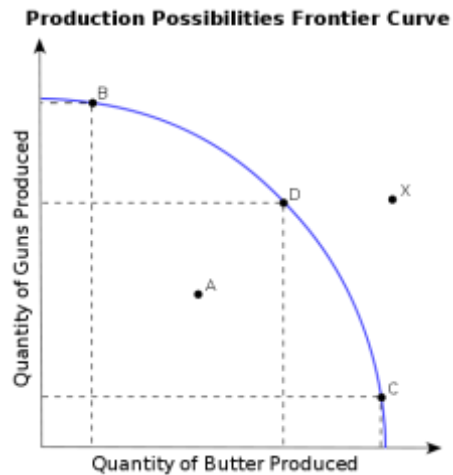
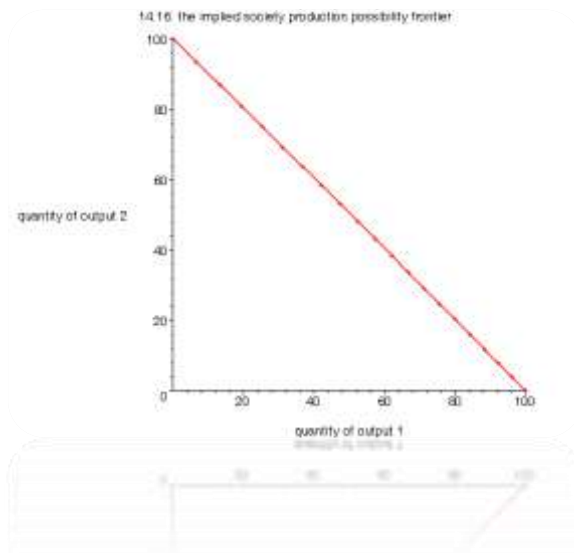
## Scarcity

- Unlimited Wants
- Limited Resources
- Alternative Use

Thus decision has to be made of what should be produced, how should be produced and for whom should it be produced.

## Opportunity Cost

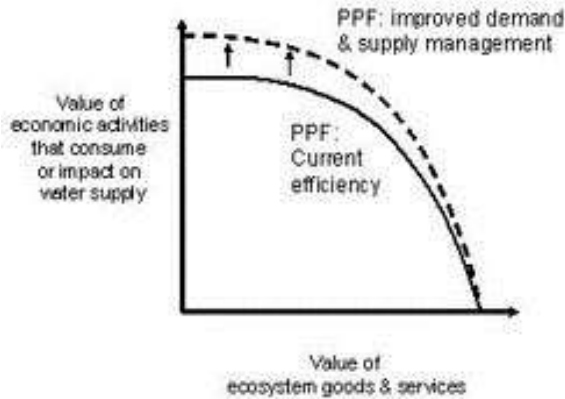
- Due to scarcity choice has to be made and when a choice is made some goods are foregone for the other, the next best alternative forgone is the opportunity cost.
- This can be represented on a diagram of production possibility curve



- In considerations we take the curve as first one, as in examples of comparative advantage however the production possibility curve can never be linear.
- It will always be as shown in the second diagram, a curve like shape
- This is because all resources that are removed from A cannot be used to produce B, for example workers in a diamond factory cannot be removed and utilised with same productivity and skill in cheese factory, there would be the extra costs of retraining.
- Machines required to make diamonds also cannot be replaced by machines of cheese
- Therefore there is never 100% efficiency in transfer of resources from 2 goods thus curve cannot be linear
- This extent is also known as the mobility of the factors of production, the more immobile the less the efficiency in the transfer of resources
- Example at beginning the more able resources for B good or less able for A good is transferred so opp cost is low, however nearing the end the more able resource for A are transferred to B thus opp cost is high

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- Shifts in production possibility growth outwards means economic growth and inwards mean recession
- Partial outwards shifts in PPC means that the efficiency in producing that good has increased and the opportunity cost has decreased however it still means there is some economic growth in the economy
- The curve is bowed outwards due to diminishing returns and increasing opportunity costs



## Types of Economies

### Market Economies

- It is decided by firms , consumers and individuals on what should be produced and for whom should it be produced
- Freedom Of Choice
- Minimal Govt intervention
- Self Interest
- Private Property
- Price mechanism(rationing) Adam Smith  
'Theory of invisible hand'

*...every individual necessarily labours to render the annual revenue of the society as great as he can. He generally, indeed, neither intends to promote the public interest, nor knows how much he is promoting it. By preferring the support of domestic to that of foreign industry, he intends only his own security; and by directing that industry in such a manner as its produce may be of the greatest value, he intends only his own gain, and he is in this, as in many other cases, led by an invisible hand to promote an end which was no part of his intention. Nor is it always the worse for the society that it was no part of it. By pursuing his own interest he frequently promotes that of the society more effectually than when he really intends to promote it. I have never known much good done by those who affected to trade for the public good.*

Nowadays, something much more general is meant by the expression "invisible hand". An invisible hand process is one in which the outcome to be explained is produced in a decentralised way, with no explicit agreements between the acting agents. The second essential component is that the process is not intentional. The agents' aims are neither coordinated nor identical with the actual outcome, which is a by-product of those aims. The process should work even without the agents having any knowledge of it. This is why the process is called invisible.

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The system in which the invisible hand is most often assumed to work is the free market. Adam Smith assumed that consumers choose for the lowest price, and that entrepreneurs choose for the highest rate of profit. He asserted that by thus making their excess or insufficient demand known through market prices, consumers "directed" entrepreneurs' investment money to the most profitable industry. Remember that this is the industry producing the goods most highly valued by consumers, so in general economic well-being is increased.

One extremely positive aspect of a market-based economy is that it forces people to think about what other people want. Smith saw this as a large part of what was good about the invisible hand mechanism. He identified two ways to obtain the help and co-operation of other people, upon which we all depend constantly. The first way is to appeal to the benevolence and goodwill of others. To do this a person must often act in a servile and fawning way, which Smith found repulsive, and he claimed it generally meets with very limited success. The second way is to appeal instead to other people's self-interest. In one of his most famous quotes:

*Man has almost constant occasion for the help of his brethren, and it is in vain for him to expect it from their benevolence only. He will be more likely to prevail if he can interest their self-love in his favour, and show them that it is for their own advantage to do for him what he requires of them. Whoever offers to another a bargain of any kind, proposes to do this. Give me what I want, and you shall have this which you want, is the meaning of every such offer; and it is the manner that we obtain from one another the far greater part of those good offices which we stand in need of. It is not from the benevolence of the butcher, the brewer, or the baker that we expect our dinner, but from their regard to their own interest. We address ourselves, not to their humanity but to their self-love.*

For Smith, to propose an exchange is to attempt to show another that what you can do, or what you have, can be of use to the other. When you carry out the exchange, it means the other person recognises that what you can do or that what you have is of value. This is why so much of a person's self-esteem is bound up in their job - a well-paid job is supposed to be a sign that others value your contribution and finds it worth exchanging their own resources for.

- Market Failure
- Inequality of Income, rich will get richer
- Instability
- Dominant Firms
- Welfare, those who are fortunate will only get the provision

### Command Economy

- Government take responsibility for
  - Allocation of resources
  - Determination of production targets for all sectors of the economy
  - Distribution of income and determination of wages
  - Ownership of most productive resources and poverty
  - Planning long term growth of the economy
- Problems
  - Allocative inefficiency
  - High Costs
  - Tends to act like 'jail' effect
  - Firms not as successful as profit motive is not target so individual would not be spirited to work as hard

## Mixed Economy

Tends to combine the advantages of both the economies and remove the disadvantages.

## Money

### Functions

1. Medium of Exchange - products for money , vice versa
2. Unit of Account(measure of value)- Agree, Decide on what items are relatively worth
3. Store of Value – money can be saved
4. Standard for deferred payments –allows people to borrow and lend

## Key Concepts

**Specialisation:** concentrating on the production of a certain commodity that gives greatest producer efficiency

**Division of Labour:** form of individual specialisation where labour is divided to carry out single task in whole process in aim of greater producer efficiency.

**Ceterus Peribus:** other things being equal

**Positive Statements:** they are statistical data that represent data

**Normative Statements:** statements that make value judgements

**Capital:** Money put into business is capital

**Fixed Capital:** It is a physical capital (fixed asset) that is not used up in the production of a product and is contrasted with circulating capital such as raw materials, operating expenses and the like. Fixed capital is that portion of the total capital that is invested in fixed assets (such as land, buildings, vehicles and equipment) that stay in the business almost permanently.

**Fixed Capital Formation:** It basically refers to the net additions to the (physical) fixed capital stock in an accounting period, or, to the value of the amount of increase of the fixed capital stock.

**Working Capital:** A measure of both a company's efficiency and its short-term financial health. The working capital ratio is calculated as:

$$\text{Working Capital} = \text{Current Assets} - \text{Current Liabilities}$$

# Price System

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## Demand

Market Demand, Aggregate Demand is attained by aggregating individual demand curves horizontally.

**Definition:** quantities of a product that purchasers are willing and able to buy at various prices per period of time, other things remaining the same

**Shifts** occur due to change in other factors like taste, fashion, income, hire purchase facilities, complementary and substitute goods

**Movement along the curve** occur due to change in price

## Price Elasticity of Demand

$\% \text{ change in qty demanded} / \% \text{ change in price} = \text{price elasticity of demand}$

## Cross Elasticity of Demand

$\% \text{ change in qty demanded of A} / \% \text{ change in price of B} = \text{cross elasticity of demand}$

## Income Elasticity of Demand

$\% \text{ change in qty demanded} / \% \text{ change in income} = \text{income elasticity of demand}$

- ✓ When price Elasticity of demand is unitary then the total revenue will always be constant.
- ✓ When above one it is more elastic
- ✓ Below 1 less elastic

## Supply

**Definition:** the quantities of a product that suppliers are willing and able to sell at various prices per period of time, other things remaining the same

Market Supply or Aggregate Supply is attained by individually adding the supply curves horizontally

**Shifts** occur due to change in factors like technological progress, costs of factors of production, taxes and subsidies and size and nature of industry

## Price Elasticity of Supply

$\% \text{ change in qty supplied} / \% \text{ change in price} = \text{price elasticity of supply}$

## Prices as rationing mechanism

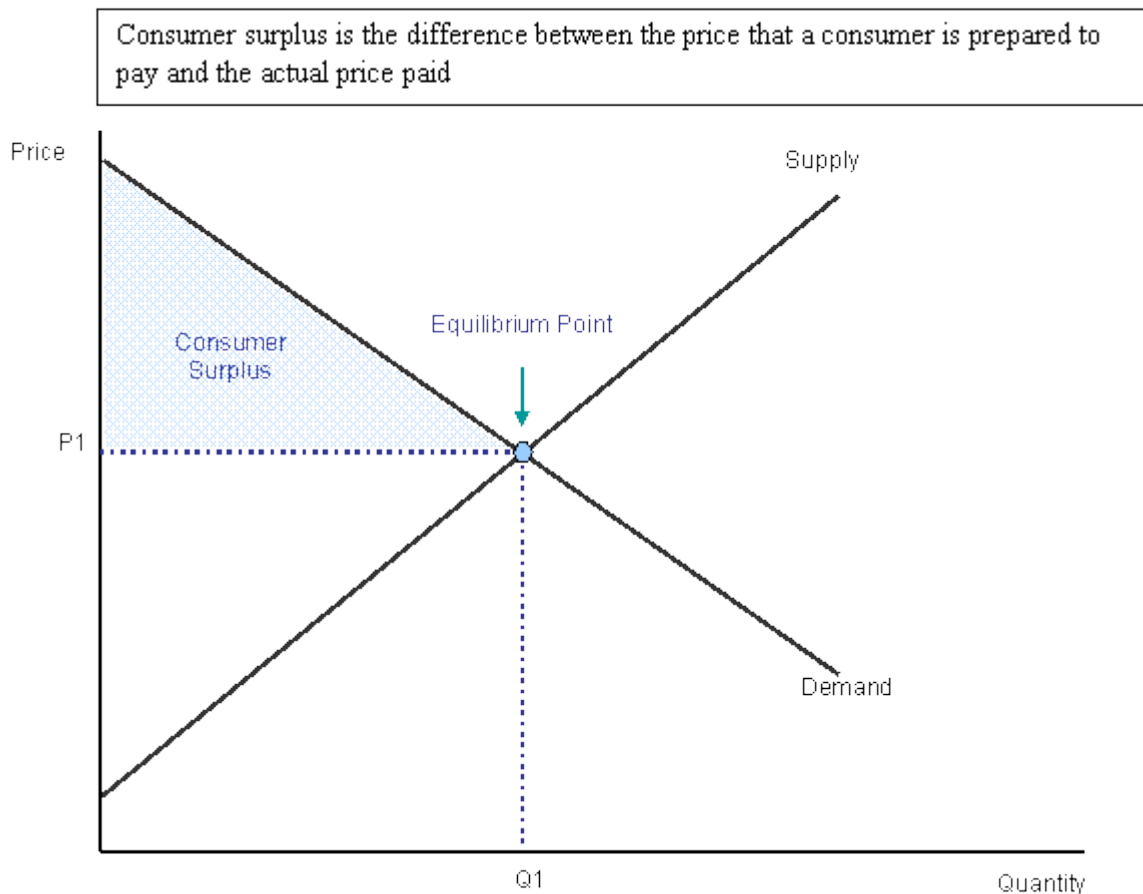
See above Adam smith example. Where price can ration resources in a market



## Consumer Surplus

Consumer surplus is a measure of the **welfare** that people gain from the consumption of goods and services, or a measure of the benefits they derive from the exchange of goods.

Consumer surplus is the difference between the total amount that consumers are **willing and able to pay** for a good or service (indicated by the demand curve) and the total amount that they actually do pay (i.e. the market price for the product). The level of consumer surplus is shown by the area under the demand curve and above the ruling market price as illustrated in the diagram below:

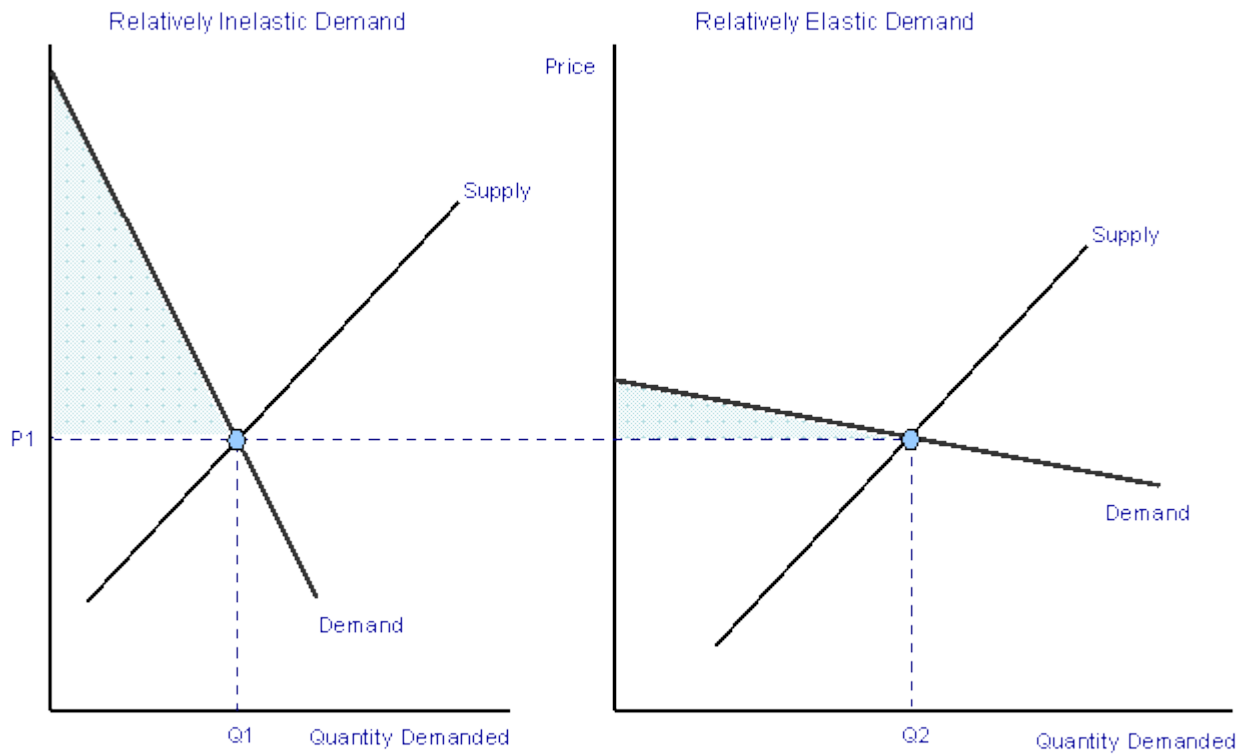


## Consumer surplus and price elasticity of demand

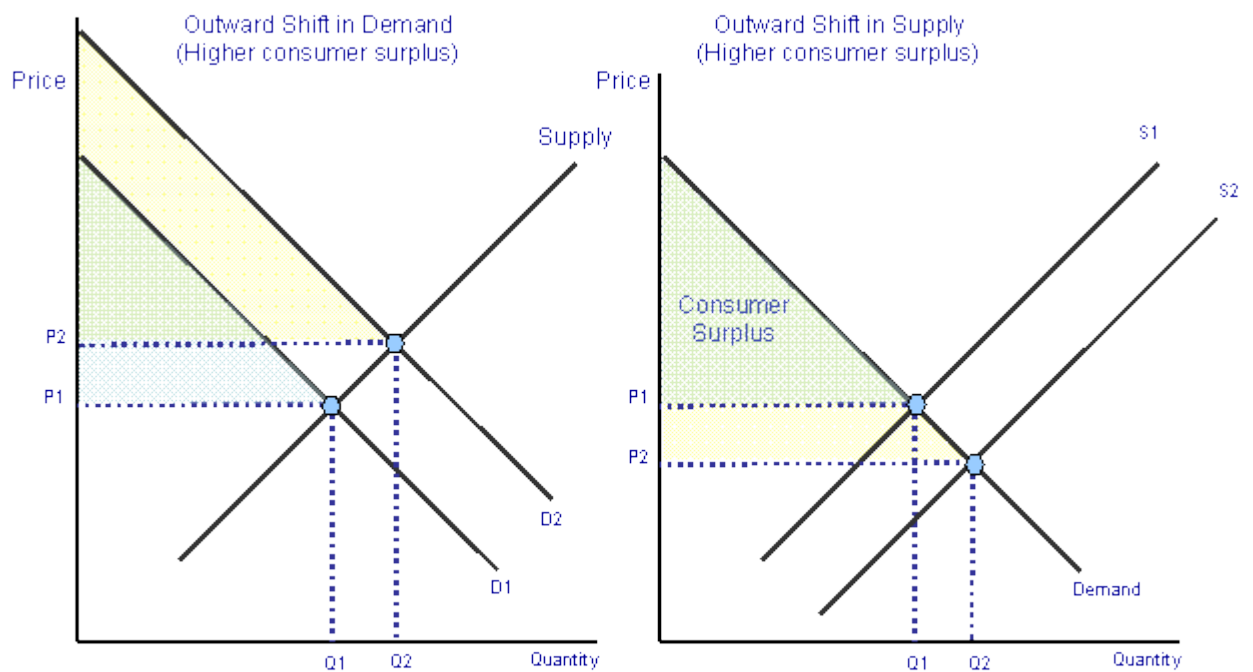
When the demand for a good or service is perfectly elastic, consumer surplus is zero because the price that people pay matches precisely the price they are willing to pay. This is most likely to happen in highly competitive markets where each individual firm is assumed to be a **'price taker'** in their chosen market and must sell as much as it can at the ruling market price.

In contrast, when demand is perfectly inelastic, consumer surplus is infinite. Demand is totally invariant to a price change. Whatever the price, the quantity demanded remains the same. Are there any examples of products that have such a low price elasticity of demand?

The majority of demand curves are downward sloping. When demand is inelastic, there is a greater potential consumer surplus because there are some buyers willing to pay a high price to continue consuming the product. This is shown in the diagram below:



**Changes in demand and consumer surplus**



When there is a shift in the demand curve leading to a change in the equilibrium market price and quantity, then the level of consumer surplus will alter. This is shown in the diagrams above. In the left hand diagram, following an increase in demand from D1 to D2, the equilibrium market price

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rises to from P1 to P2 and the quantity traded expands. There is a higher level of consumer surplus because more is being bought at a higher price than before.

In the diagram on the right we see the effects of a **cost reducing innovation** which causes an outward shift of market supply, a lower price and an increase in the quantity traded in the market. As a result, there is an increase in consumer welfare shown by a rise in consumer surplus. Consumer surplus can be used frequently when analysing the impact of government intervention in any market – for example the effects of indirect taxation on cigarettes consumers or the introducing of road pricing schemes such as the London congestion charge.

### Applications of consumer surplus

#### Paying for the right to drive into the centre of London

In July 2005, the congestion charge was raised to £8 per day. How has the London congestion charge affected the consumer surplus of drivers?



[Transport for London](#) has details on the impact of the congestion charge

Consider the entry of Internet retailers such as Last Minute and Amazon into the markets for travel and books respectively. What impact has their entry into the market had on consumer surplus? Have you benefited from you perceive to be lower prices and better deals as a result of using e-commerce sites offering large discounts compared to high street retailers?

### Price discrimination and consumer surplus

Producers often take advantage of consumer surplus when setting prices. If a business can identify groups of consumers within their market who are willing and able to pay different prices for the same products, then sellers may engage in **price discrimination** – the aim of which is to extract from the purchaser, the price they are willing to pay, thereby turning consumer surplus into extra revenue.

Airlines are expert at practising this form of **yield management**, extracting from consumers the price they are willing and able to pay for flying to different destinations at various times of the day, and exploiting **variations in elasticity of demand** for different types of passenger service. You will always get a better deal / price with airlines such as Easy Jet and Ryan Air if you are prepared to book weeks or months in advance. The airlines are prepared to sell tickets more cheaply than because they get the benefit of cash-flow together with the guarantee of a seat being filled. The nearer the time to

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take-off, the higher the price. If a businessman is desperate to fly from Newcastle to Paris in 24 hours time, his or her demand is said to be price inelastic and the corresponding price for the ticket will be much higher.

One of the main arguments against firms with **monopoly power** is that they exploit their monopoly position by raising prices in markets where demand is inelastic, extracting consumer surplus from buyers and increasing profit margins at the same time. We shall consider the issue of monopoly in more detail when we come on to our study of markets and industries.

### Key Concepts

**Ad valorem Tax:** a tax that percentage of the price

**Composite Demand:** demand for something that has more than one use, eg mobile for calls, mp3 player, camera etc.

**Derived Demand:** where demand for one good or service occurs as a result of demand for another. Demand for ipod causes demand for hard drive microphone etc, eg transport uses of transport are not for the service itself but to be able to consume another service or good

**Perishability:** for how long may a good maintain its value?

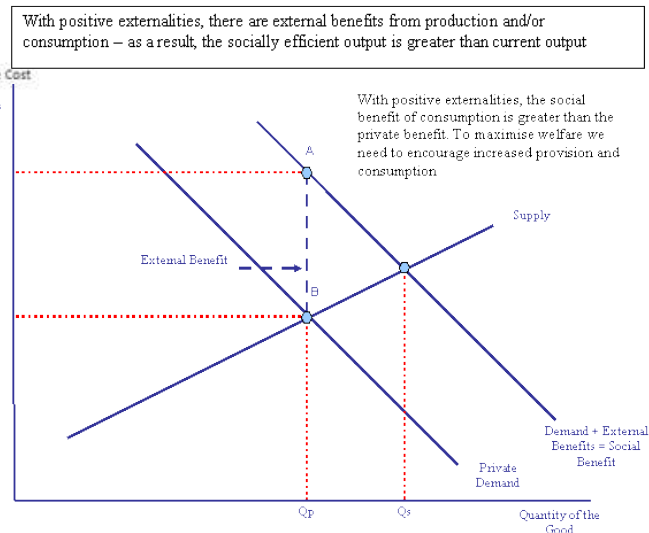
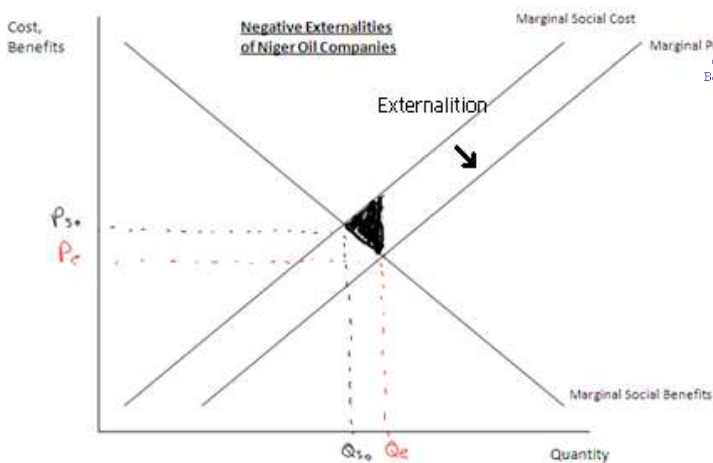
**Specific tax:** a tax levied at a rate per physical unit of the good regardless of its price, contrast to ad valorem

**Rectangular Hyperbola:** when the % change in values of both y and x axis is constant, for eg demand curve with unitary price elasticity, or variation of average costs and qty

# Government Intervention in the Price System

**Market failure** is when the self-regulating mechanism of the invisible hand tends **not to allocate** resources in the most efficient manner. They occur when:

- **Externalities**
  - **Negative**-Social cost greater than private cost
  - **Positive**-Social Benefits greater than private benefits
  - *Either too much or too little is produced*
- **Merit and Demerit Goods**
  - *Either too much or too little is produced*
  - **However** the difference between this and above is that this is due to failure of information



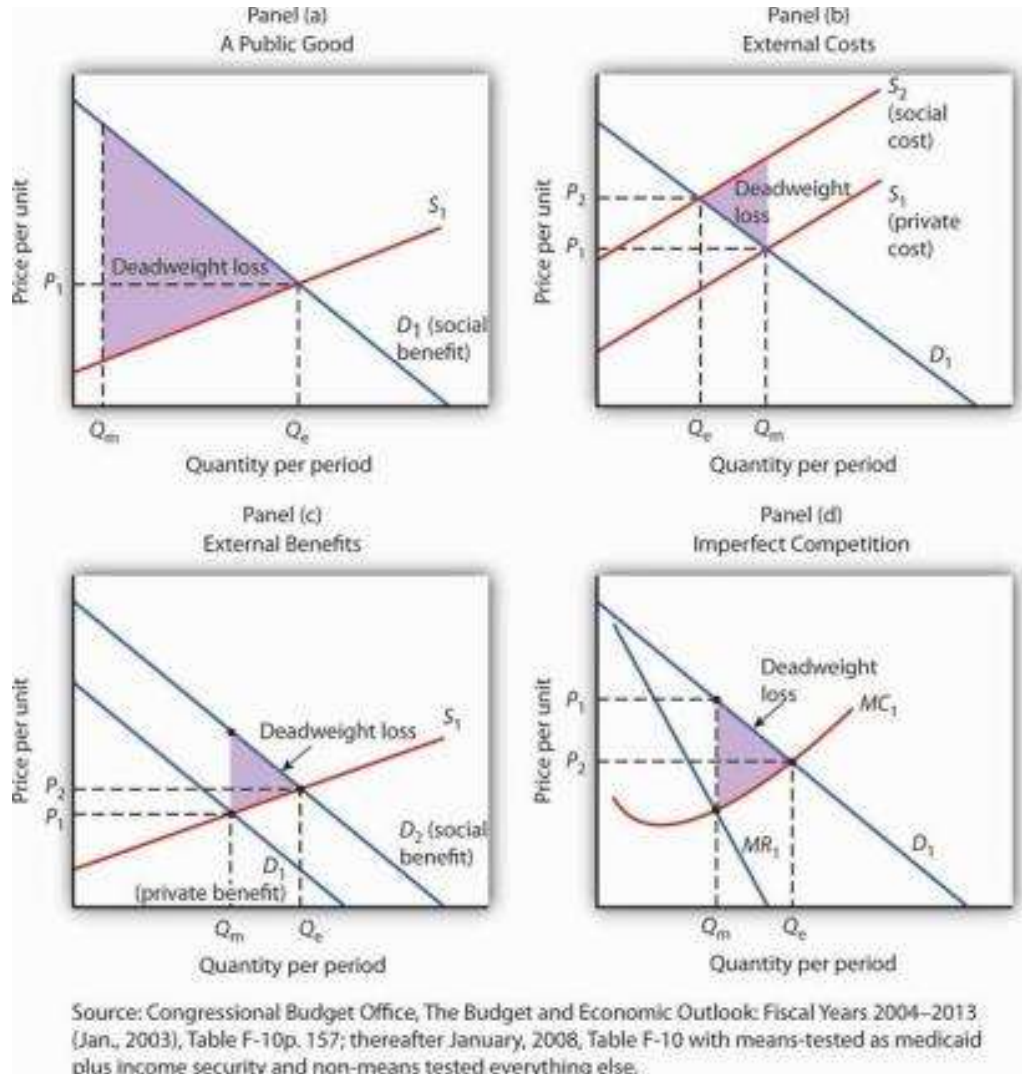
- **Public Goods**
  - *These goods are*
    - *Non excludable*
    - *Non-rival*
  - *Thus they would not be produced at all by the market as it would be considered non profitable by the market so govt would be required to produce it*

## Government Intervention

- **Regulation**-legal methods to control the qty and quality of goods and services that are produced and consumed

- **Financial Intervention**- taxes and subsidies
- **State Production** – nationalisation
- **Income and other transfers** – means of redistributing income to achieve equity

## Correcting Market Failure



In each panel, the potential gain from government intervention to correct market failure is shown by the deadweight loss avoided, as given by the shaded triangle. In Panel (a), we assume that a private market produces  $Q_m$  units of a public good. The efficient level,  $Q_e$ , is defined by the intersection of the demand curve  $D_1$  for the public good and the supply curve  $S_1$ . Panel (b) shows that if the production of a good generates an external cost, the supply curve  $S_1$  reflects only the private cost of the good. The market will produce  $Q_m$  units of the good at price  $P_1$ . If the public sector finds a way to confront producers with the social cost of their production, then the supply curve shifts to  $S_2$ , and production falls to the efficient level  $Q_e$ . Notice that this intervention results in a higher price,  $P_2$ , which confronts consumers with the real cost of producing the good. Panel (c) shows the case of a good that generates external benefits. Purchasers of the good base their choices on the private benefit, and the market demand curve is  $D_1$ . The market quantity is  $Q_m$ . This is less than the efficient quantity,  $Q_e$ , which can be achieved if the activity that generates external benefits is subsidized. That would shift the market demand curve to  $D_2$ , which intersects the

market supply curve at the efficient quantity. Finally, Panel (d) shows the case of a monopoly firm that produces  $Q_m$  units and charges a price  $P_1$ . The efficient level of output,  $Q_e$ , could be achieved by imposing a price ceiling at  $P_2$ . As is the case in each of the other panels, the potential gain from such a policy is the elimination of the deadweight loss shown as the shaded area in the exhibit.

Panel (a) of [Figure 15.3, "Correcting Market Failure"](#) illustrates the case of a public good. The market will produce some of the public good; suppose it produces the quantity  $Q_m$ . But the demand curve that reflects the social benefits of the public good,  $D_1$ , intersects the supply curve at  $Q_e$ ; that is the efficient quantity of the good. Public sector provision of a public good may move the quantity closer to the efficient level.

Panel (b) shows a good that generates external costs. Absent government intervention, these costs will not be reflected in the market solution. The supply curve,  $S_1$ , will be based only on the private costs associated with the good. The market will produce  $Q_m$  units of the good at a price  $P_1$ . If the government were to confront producers with the external cost of the good, perhaps with a tax on the activity that creates the cost, the supply curve would shift to  $S_2$  and reflect the social cost of the good. The quantity would fall to the efficient level,  $Q_e$ , and the price would rise to  $P_2$ .

Panel (c) gives the case of a good that generates external benefits. The demand curve revealed in the market,  $D_1$ , reflects only the private benefits of the good. Incorporating the external benefits of the good gives us the demand curve  $D_2$  that reflects the social benefit of the good. The market's output of  $Q_m$  units of the good falls short of the efficient level  $Q_e$ . The government may seek to move the market solution toward the efficient level through subsidies or other measures to encourage the activity that creates the external benefit.

Finally, Panel (d) shows the case of imperfect competition. A firm facing a downward-sloping demand curve such as  $D_1$  will select the output  $Q_m$  at which the marginal cost curve  $MC_1$  intersects the marginal revenue curve  $MR_1$ . The government may seek to move the solution closer to the efficient level, defined by the intersection of the marginal cost and demand curves.

While it is important to recognize the potential gains from government intervention to correct market failure, we must recognize the difficulties inherent in such efforts. Government officials may lack the information they need to select the efficient solution. Even if they have the information, they may have goals other than the efficient allocation of resources. Each instance of government intervention involves an interaction with utility-maximizing consumers and profit-maximizing firms, none of whom can be assumed to be passive participants in the process. So, while the potential exists for improved resource allocation in cases of market failure, government intervention may not always achieve it.

The late George Stigler, winner of the Nobel Prize for economics in 1982, once remarked that people who advocate government intervention to correct every case of market failure reminded him of the judge at an amateur singing contest who, upon hearing the first contestant, awarded first prize to the second. Stigler's point was that even though the market is often an inefficient allocator of resources, so is the government likely to be. Government may improve on what the market does; it can also make it worse. The choice between the market's allocation and an allocation with government intervention is always a choice between imperfect alternatives. We will examine the nature of public sector choices later in this chapter and explore an economic explanation of why government intervention may fail to move market solutions closer to their efficient levels.

## Cost Benefit Analysis CBA

1. *Identification* of all relevant costs and benefits
2. Putting a *monetary value* on all relevant costs and benefits
3. *Forecasting* future costs and benefits
4. *Decision Making*- interpretation of results of CBA

**Note:** *Quite difficult to collect data, have to interpret future data and has to keep shadow prices on goods that don't have market prices*

## Key Concepts

**Excise Duty:** An excise or excise tax (sometimes called an excise duty or special tax) is a type of tax charged on goods produced within the country (as opposed to customs, charged on goods from outside the country). It is a tax on the production or sale of a good

**Free Rider:** free riders" are those who consume more than their fair share of a public resource, or shoulder less than a fair share of the costs of its production. Free riding is usually considered to be an economic "problem" only when it leads to the non-production or under-production of a public good (and thus to Pareto inefficiency), or when it leads to the excessive use of a common property resource.



# International Trade

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## Intro

International trade is the exchange of goods and services between countries. Trade improves consumer choice and total welfare.

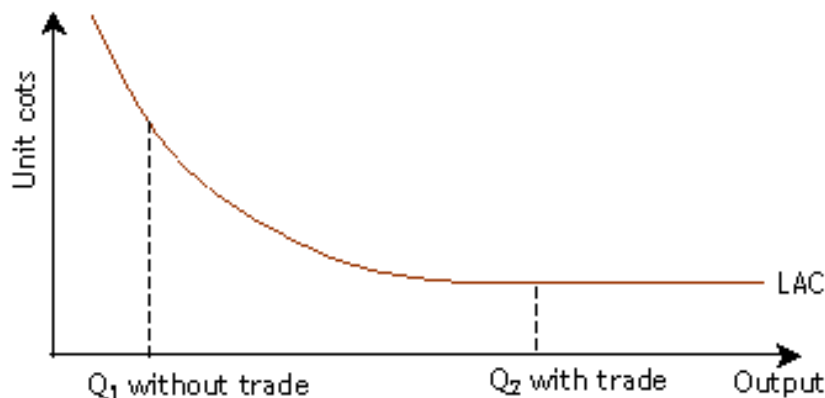
Different countries have different factor endowments eg climate, skilled labour force, and natural resources vary between nations. Therefore some countries are better placed in the production of certain goods than others.

Economic theory predicts all countries gain if they specialise and trade the goods in which they have a comparative advantage. This is true even if one nation has an absolute advantage over another country.

## The Role of International Trade

International trade allows increased specialisation so that higher output allows economies of scale:

- A larger market allows domestic producers greater scope for economies of scale. Without trade the domestic market only allows  $Q_1$  output. Access to overseas markets means  $Q_2$  output at lowest unit cost
- International competition stimulates competition. Domestic firms strive to become 'world class', adapting modern technology, product and process innovations that reduce unit costs.



**Absolute advantage** occurs when a country or region can create more of a product with the same factor inputs.

**Comparative advantage** exists when a country has lower opportunity cost in the production of a good or service.

### Assumptions for both theories

1. Only two countries involved in the trade
2. Each can produce just two products
3. Productivity differs between them so varying quantities are produced
4. Production costs and opportunity costs are constant

### Absolute Advantage

- The curves tend to intersect
- Clear-cut advantage
- Totally varying gradients of the line

### Example 1

Party B has the absolute advantage.

Party	Widgets per hour	Number of Employees
A	5	3
B	10	3

- Party A can produce 5 widgets per hour with 3 employees.
- Party B can produce 10 widgets per hour with 3 employees.

Assuming that the employees of both parties are paid equally, Party B has an absolute advantage over Party A in producing widgets per hour. This is because Party B can produce twice as many widgets as Party A can with the same number of employees.

### Example 2

Country C has the absolute advantage.

Country	Parts per hour	Number of workers
Country A	1000	200
Country B	2500	200
Country C	10000	200

- Country A can produce 1000 parts per hour with 200 workers.
- Country B can produce 2500 parts per hour with 200 workers.
- Country C can produce 10000 parts per hour with 200 workers.

Considering that labour and material costs are all equivalent, Country C has the absolute advantage over both Country B and Country A because it can produce the most parts per hour at the same cost as other nations. Country B has an absolute advantage over Country A because it can produce more parts per hour with the same number of employees. Country A has no absolute advantage because it can't produce more goods than either Country B or Country C given the same input.

## Comparative Advantage

- The curves will never touch or meet as one country is better off producing both goods
- When curves are parallel, opportunity cost ratios are equal there is no benefit from international trade
- Countries will specialise in goods that they have greatest efficiency and lowest opportunity cost

Examine the following

**Tom has comparative advantage in nuts because his PPF has a flatter slope on the nuts axis**



## Assumptions for comparative advantage

1. Perfect occupational mobility, 100% efficiency in switching resources
2. Constant returns to Scale –because specialization might lead to diminishing returns or increasing returns as the scale of production is varied, thus linear curve, production costs to be constant
3. No externalities from production or consumption
4. Zero or insignificant transport costs
5. Exchange Rates must vary between the domestic opportunity cost ratios for trade to be mutually beneficial
6. 2 country , 2 product
7. No restrictions on free trade

## Protectionism

### Types of Protectionism

- Tariffs – a tax on imports; government gain
- Quotas – a limit to how many imports allowed; gain to producers as higher profits
- Embargo – Total ban on foreign imports
- Export Subsidies-distort market forces as supply will be greater , more volume of exports
- Exchange Control-limits on dealing of foreign currency, less imports possible
- Voluntary Export Restraint Arrangements – where two countries make an agreement to limit the volume of their exports to one another over an agreed period of time.
- Import licensing - governments grants importers the license to import goods.

## **Arguments for Protectionism**

- To safeguard employment in home industry
- To correct balance of payments disequilibria
- To prevent exploitation of labour in developing economies
- To prevent dumping
- To safeguard infant industries
- Strategic Arguments
- To prevent over specialization as specializing in 1 or 2 goods in a global economy where demand is constantly changing it can be dangerous.
- Because other countries use barriers to trade

## **Economic Integration**

1. Free trade area
2. Customs Union
3. Economic Union

### **Free trade Area**

- Removal of Tariffs and Quotas on internal trade
- Members can determine their external trade policy towards other non-members

### **Customs Union**

- Removal of tariffs and quotas on internal trade and also a common external tariff with non-members
- Some trade being deflected from outside the union to within.

### **Economic Union**

- As above but with more harmonization and centralization of policies
- EU has gone beyond with single currency and European Central Bank

## **Trade Creation**

Trade creation is an economic term related to international economics in which trade is created by the formation of a customs union.

### **Occurrence of Trade Creation**

When a customs union is formed, the member nations establish a free trade area amongst themselves and a common external tariff on non-member nations. As a result, the member nations establish greater trading ties between themselves now that protectionist barriers such as tariffs, quotas, and non-tariff barriers such as subsidies have been eliminated. The result is an increase in trade among member nations in the good or service of each nation's comparative advantage.

## Downside of Trade Creation

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The creation of trade is important to the nation entering the customs union in that increased specialization may hurt other industries. Arguments for protectionism, such as the infant industry argument, national defence, outsourcing, and issues with health and safety regulations are brought to mind. However, customs unions are typically formed with friendly nations, eliminating the national defence argument, and in the long run serves to create more jobs and output due to specialization.

## Trade Diversion

Trade diversion is an economic term related to international economics in which trade is diverted from a more efficient exporter towards a less efficient one by the formation of a free trade agreement.

## Occurrence of Trade Diversion

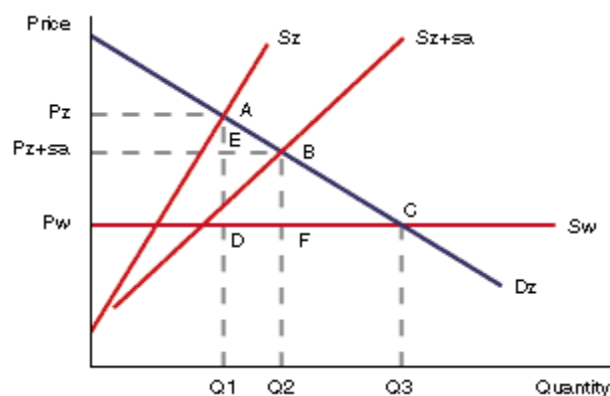
When a country applies the same tariff to all nations, it will always import from the most efficient producer, since the more efficient nation will provide the goods at a lower price. With the establishment of a bilateral or regional free trade agreement, that may not be the case. If the agreement is signed with a less-efficient nation, it may well be that their products become cheaper in the importing market than those from the more-efficient nation, since there are taxes for only one of them. Consequently, after the establishment of the agreement, the importing country would acquire products from a higher-cost producer, instead of the low-cost producer from which it was importing until then. In other words, this would cause a trade diversion

## Downside of Trade Diversion

Diverted trade may hurt the non-member nation economically and politically and create a strained relationship between the two nations. The decreased output of the good or service traded from one nation with a high comparative advantage to a nation of lower comparative advantage works against creating more efficiency and therefore more overall [surplus](#). It is widely believed by economists that trade diversion is harmful to consumers

## Examples of Trade Creation and Diversion

1. The diagram below shows the trade creation and trade diversion effects. Zambia has a domestic supply curve for maize  $S_z$ . If it forms a trading bloc with South Africa then the supply curve for maize is  $S_z+sa$ . The world output of maize is shown by the horizontal supply curve  $S_w$ . The Zambian demand curve for maize is  $D_z$ .



Assuming no trade the domestic price of maize in Zambia would be  $P_z$  and the quantity would be  $Q_1$ . By forming a trade bloc with South Africa the price of maize would fall to  $P_z+SA$  and the quantity produced to  $Q_2$ . The triangle  $AEB$  represents the resulting welfare gain or trade creation effect. If Zambia trade freely on the world market, quantity  $Q_3$  of maize could be purchased at the world price of  $P_w$ . This has been prevented from happening by the formation of the trade bloc with South Africa, and the imposition of some form of trade barrier. There has therefore been a welfare loss of  $BFC$ . This is the trade diversion effect.

A comparison of the two effects enables the overall welfare gain or loss of the formation of the trading bloc to be assessed. The welfare implication of the trade creation and trade diversion effect are summarised in the table below:

	With no trade	With trade bloc	With free trade
Price and Quantity	$P_z$ $Q_1$	$P_z+sa$ , $Q_z+sa$	$P_w$
Trade Creation	-	$EAB$	$DAC$
Trade Diversion	$ADC$	$BFC$	-

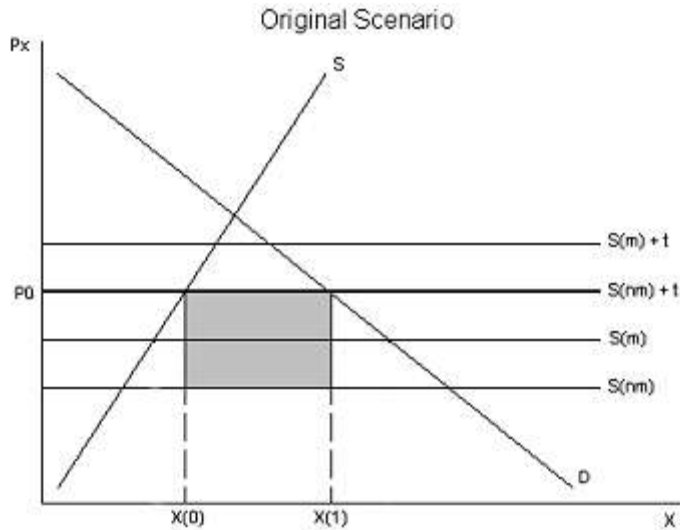
From the point of view of LDCs the existence of trading blocs depends rather on firstly whether the country is in the trading bloc and secondly which other countries are also members.

Being outside a trading bloc will often mean that a country loses out through the trade diversion effect. Zambian textile producers will face trade barriers such as tariffs into the European Union and consequently be disadvantaged.

Forming a trade bloc with other LDCs may result in only a small trade creation effect as the share of world trade involving LDCs is so small, that the trade bloc has limited influence on the market price and quantity. If the country joins a trade bloc with a MDC then there may be real advantages to the LDC as resources flow within the bloc to the countries where there are cost advantages and the potential market for exports is significantly expanded.

**2. Original Scenario**

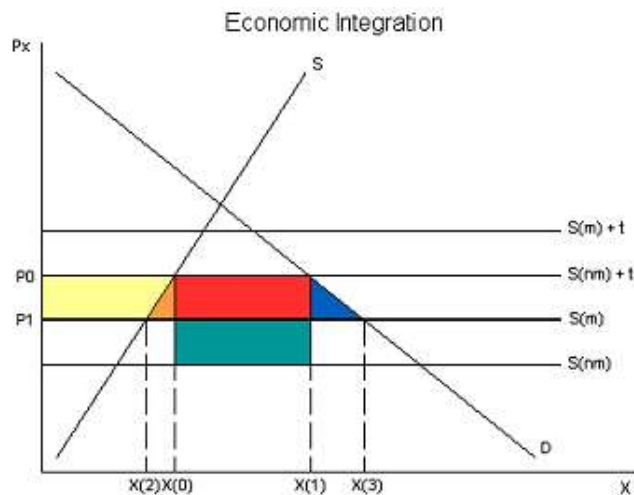
In the diagram S and D represent the country's domestic Supply and Demand for (t). In this case, the Non Members countries S (nm) are the low cost producers. The distance between X0 and X1 represents the country's imports of good X. The



**Tariff Revenue**

**Economic Integration:**

After the country enters a Free Trade Agreement, the relevant supply curve becomes S (m). While the Member nations are the high-cost producers, their goods are not subject to a tariff, giving them an advantage over low-cost Non Member goods. The price falls to P1, which benefits consumers since they are now able to



purchase more of good X at a lower cost (trade creation). The amount of good X the country imports increases to the distance between X2 and X3. Under this scenario, the country receives no tariff revenue (trade diversion).

- Producer surplus transferred to consumers
- Efficiency gain (trade creation)
- Formerly tariff revenue, now consumer surplus
- Increased consumption (trade creation)
- Lost tariff revenue (trade diversion)

Conclusion:

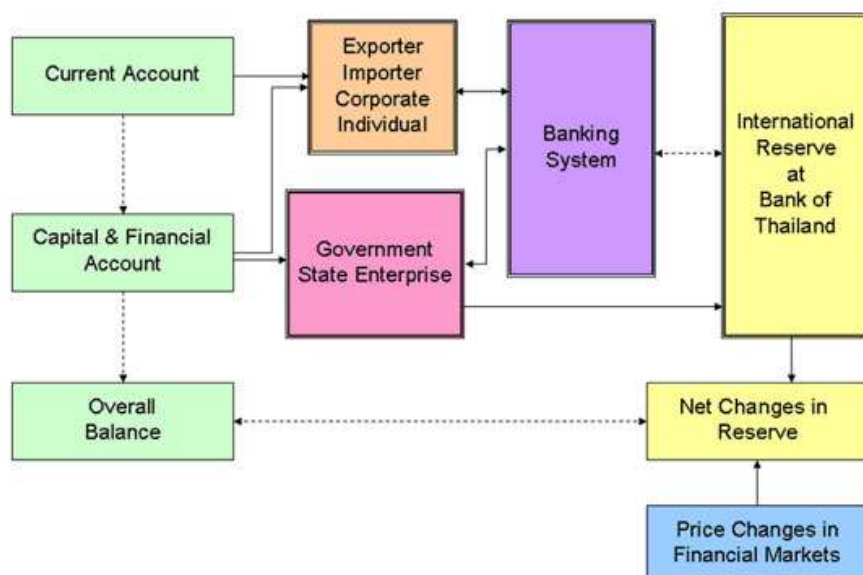
The net benefit (loss) to a country can be determined by comparing the trade creation and trade diversion effects. If trade creation dominates, economic integration will increase the country's welfare; if trade diversion dominates, entering a Free Trade Agreement will reduce the country's welfare. In the case of the European Union, most economists agree that trade creation far exceeds trade diversion.

## Terms of Trade

In international economics and international trade, terms of trade or TOT is the relative prices of a country's export to import. "Terms of trade" are sometimes used as a proxy for the relative social welfare of a country, but this heuristic is technically questionable and should be used with extreme caution. An improvement in a nation's terms of trade (the increase of the ratio) is good for that country in the sense that it has to pay less for the products it imports. That is, it has to give up fewer exports for the imports it receives.

## Balance of Payments

The balance of payments consists of



### Current Account

- Trade in Goods- balance of trade, visible imports and exports
- Trade in Services- invisible balance, invisible imports and exports
- Income
- Current Transfers



## Capital Account

- Transfer or Ownership of Fixed Assets
- Acquisition or disposal of non-financial assets

## Financial Account

- Investments overseas
- Inward flow of investments from foreign residents

**Note: Making an investment is recorded in financial account. However income earned from this investment is current account**

## Key Concepts

**Bilateral Trade:** Bilateral trade or clearing trade is trade exclusively between two states, particularly, barter trade based on bilateral deals between governments, and without using hard currency for payment. Bilateral trade agreements often aim to keep trade deficits at minimum by keeping a clearing account where deficit would accumulate

**Internal balance** in economics is a state in which a country maintains full employment and price level stability. It is a function of a country's total output,

**Internal balance** = Consumption [determined by disposable income] + Investment + Government Spending + Current Account (determined by the real exchange rate, disposable income of home country and disposable income of the foreign country).

**External balance** signifies a condition in which the country's current account, its exports minus imports, is neither too far in surplus nor in deficit. It is signified by a level of the current account which is consistent with the maintenance of existing (or growing) levels of consumption, employment and national output over the long term. It is notated by

**External balance** = the right amount of surplus or deficit in the current account.

Maintaining both internal and external balances requires use of both monetary policy and fiscal policy. That is one reason why floating exchange rates may be superior to fixed exchange rates. Under fixed exchange rates, governments are not usually free to employ monetary policy. Under floating rates, countries can use both

**Globalization** describes an ongoing process by which regional economies, societies and cultures have become integrated through a globe-spanning network of exchange. The term is sometimes used to refer specifically to economic globalization: the integration of national economies into the international economy through trade.

**Multilateral Trade:** Multilateral trade agreements are between many nations at one time. For this reason, they are very complicated to negotiate, but are very powerful once all parties sign the agreement. The primary benefit of multilateral agreements is that all nations get treated equally, and so it levels the playing field, especially for poorer nations that are less competitive by nature.

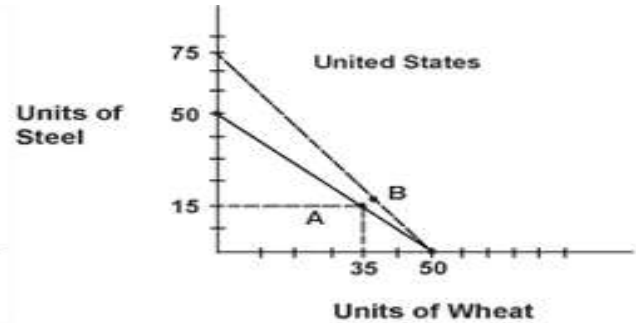
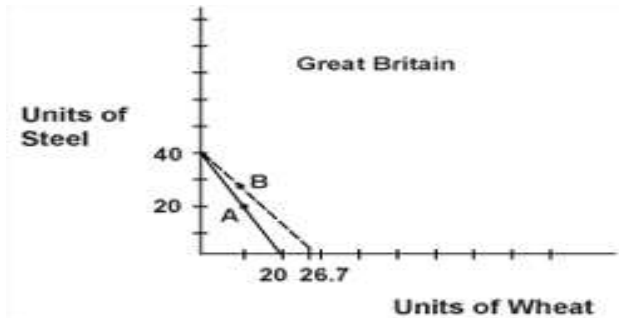
**Net errors and omissions** In balance of payments accounting, net errors and omissions record the statistical discrepancies that arise in gathering balance of payments data.

## Karan Rulezzz

**Sunrise Industry** sunrise industry is one that is new or relatively new, is growing fast and is expected to become important in the future. Examples of sunrise industries include hydrogen fuel production, space, and online encyclopaedias.

**Sunset Industry:** A sunset industry is an industry in decline, one that has passed its peak or boom periods. As one example, analogue recording technologies for audio or video have been supplanted by digital; although analogue equipment is still offered, sales have declined dramatically and are not expected to recover, so this segment of the market has been branded a "sunset industry".

### Trading Possibility Curve



# Macroeconomic Problems

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## Inflation

Persistent Increase in the general average level of prices of goods and services

### Causes of Inflation

- Cost-Push Inflation – due to the increase in prices of factors of production , land labour , capital,
- Demand Pull inflation – Due to the increase in demand for products
- Imported Inflation – Increase in prices of imported materials that are used as raw materials
- Monetary Inflation – Increase in the total money supply in the economy

$MV = PT$

M is money supply, velocity of circulation, (the number of times it changes hands), P is prices and T is the number of transactions

### Consequences of Inflation

#### Disadvantages

- Tends to accelerate
- Affects the distribution of income
- Borrowers Gain at Expense of Lenders
- Affects the balance of payments
- Reduces purchasing power
- Shoe- leather costs, moving money from one financial asset to another, in search of greatest interest rate , or lowest prices
- Menu Costs , costs involved in changing prices , bar codes catalogues etc

#### Advantages

- Pensioners who have fixed income gain by index-linking
- Demand Pull Inflation profits tend to increase to an extent
- Reasonable Rate can build business confidence
- May stimulate consumption as **real interest rates** may be low or negative , debt burdens fall and people will be encouraged to spend more
- Inflation would help firms who need to reduce costs survive, as they can reduce real cost of factors of production

## Anticipated and Unanticipated Inflation

### Anticipated inflation:

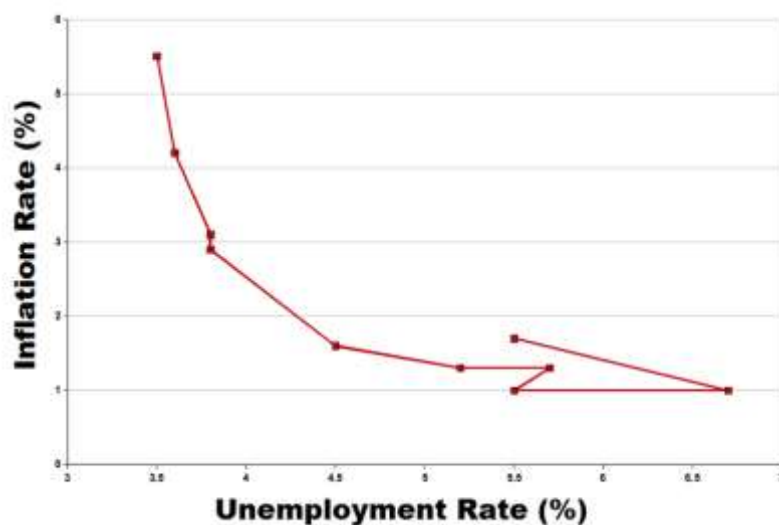
When people/businesses can make accurate predictions of inflation, they can take steps to protect themselves from its effects. If the inflation rate corresponds to what the majority of people are expecting (anticipated inflation), then we can compensate and the cost isn't high. For example, banks can vary their interest rates and workers can negotiate contracts that include automatic wage hikes as the price level goes up. Firms can negotiate their prices, nominal interest rates can be changed to maintain real interest rates, consumers can distinguish between relative prices and general prices etc

### Unanticipated inflation:

Unanticipated inflation occurs when economic agents (people, businesses and governments) make errors in their inflation forecasts. Actual inflation may end up well below, or significantly above expectations.

When inflation is volatile from year to year, it becomes difficult for individuals and businesses to correctly predict the rate of inflation in the near future

- Creates Uncertainty
- Fall in consumption and investment
- Arbitrary distribution of income
- Income transferred from old to young



### Stagflation

High unemployment and high inflation is known as stagflation. Usually results from an increase in price of raw materials. Because this leads to inflation. Secondly it leads to unemployment as businesses are less profitable (stagnation). As both of these occur simultaneously it leads stagflation

### Phillips Curve

### Deflation

In economics, deflation is a decrease in the general price level of goods and services.<sup>[1]</sup> Deflation occurs when the inflation rate falls below zero percent, resulting in an increase in the real value of money – a negative inflation rate. This should not be confused with disinflation, a slow-down in the inflation rate (i.e. when the inflation decreases, but still remains positive).<sup>[2]</sup> Inflation reduces the real value of money over time; conversely, deflation increases the real value of money. Money refers to the functional currency (mostly unstable monetary unit of account) in a national or regional economy.

### Reflation

Reflation is the act of stimulating the economy by increasing the money supply or by reducing taxes. It is the opposite of disinflation. It can refer to an economic policy whereby a government uses fiscal or monetary stimulus in order to expand a country's output. This can possibly be achieved by methods that include reducing tax, changing the money supply, or even adjusting interest rates. Just as disinflation is considered an acceptable antidote to high inflation, reflation is considered to be an antidote to deflation

### Key Concepts

**Hyperinflation:** In economics, hyperinflation is inflation that is very high or "out of control", a condition in which prices increase rapidly as a currency loses its value. Definitions used by the media vary from a cumulative inflation rate over three years approaching 100% to "inflation exceeding 50% a month." [2] In informal usage the term is often applied to much lower rates. As a rule of thumb, normal inflation is reported per year, but hyperinflation is often reported for much shorter intervals, often per month.

**Menu Costs:** In economics, menu costs are the costs to firms of updating menus, price lists, brochures, and other materials when prices change in an economy. Because this cost exists, firms sometimes do not change their prices when the economy puts pressure on it, leading to price stickiness. Generally, the effect on the firm of small shifts in price (by changes in supply and/or demand, or else because of slight adjustments in monetary policy) are relatively minor compared to the costs of notifying the public of this new information. Therefore, the firm would rather exist in slight disequilibrium than incur the menu costs.

**Shoe Leather Costs** Shoe leather cost refers to the cost of time and effort (more specifically the opportunity cost of time and energy) that people spend trying to counter-act the effects of inflation, such as holding less cash and having to make additional trips to the bank. The term comes from the fact that more walking is required (historically, although the rise of the Internet has reduced it) to go to the bank and get cash and spend it, thus wearing out shoes more quickly. The actual cost of reducing money holdings is the additional time and convenience that must be sacrificed to keep less money on hand than would be required if there were no inflation.

**Nominal Value:** The stated value of an issued security that remains fixed, as opposed to its market value, which fluctuates. Nominal value refers to any price or value expressed in money of the day, as opposed to **real value**, which adjusts for the effect of inflation

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## Balance of Payments Problem

### Equilibrium and Disequilibrium

Balance of payments equilibrium is defined as a condition where the sum of debits and credits from the current account and the capital and financial accounts equal to zero; in other words, equilibrium is where

$$\text{Current account} + (\text{Capital and financial accounts}) = 0$$

This is a condition where there are no changes in Official Reserves.<sup>[3]</sup> When there is no change in Official Reserves, the balance of payments may also be stated as follows:

$$\text{Current account} = -(\text{Capital and financial accounts})$$

or:

$$\text{Current account deficit (or surplus)} = \text{Capital and financial account surplus (or deficit)}$$

**Balance of payments disequilibrium** is when over a period of time a country is recording persistent surpluses or deficits in the balance of payments. As a consequence the exchange rate has to either be overvalue or undervalued

1. Imports of Goods and Services exceed exports and financial accounts is in deficit
2. Export of Goods just exceed imports but there is a financial account deficit
3. Large Surplus on the current account

### Causes of BOP Disequilibrium

A number of factors may cause disequilibrium in the balance of payments. These various causes may be broadly categorized into:

- (i) Economic factors ;
- (ii) Political factors; and
- (iii) Sociological factors.

#### **Economic Factors:**

A number of economic factors may cause disequilibrium in the balance of payments. These are:

#### **Development Disequilibrium:**

Large-scale development expenditures usually increase the purchasing power, aggregate demand and prices, resulting insubstantially large imports. The development disequilibrium is common in developing countries, because the above factors, and large-scale capital goods imports needed for carrying out the various development programmes, give rise to a deficit in the balance of payments.

### **Cyclical Disequilibrium:**

Cyclical disequilibrium occurs because of two reasons. First, two countries may be passing through different paths of business cycle. Second, the countries may be following the same path but the income elasticity's of demand or price elasticity's of demand are different. If prices rise in prosperity and decline in depression, a country with price elasticity for imports greater than unity will experience a tendency for decline in the value of imports in prosperity; while those for which import price elasticity is less than one will experience a tendency for increase. These tendencies may be overshadowed by the effects of income changes, of course. Conversely, as prices decline in depression, the elastic demand will bring about an increase in imports, the inelastic demand a decrease.

### **Secular Disequilibrium:**

Sometimes, the balance of payments disequilibrium persists for a long time because of certain secular trends in the economy. For instance, in a developed country, the disposable income is generally very high and, therefore, the aggregate demand, too, is very high. At the same time, production costs are very high because of the higher wages. This naturally results in higher prices. These two factors - high aggregate demand and higher domestic prices may result in the imports being much higher than the exports. This could be one of the reasons for the persistent balance of payments deficits of the USA.

### **Structural Disequilibrium:**

Structural changes in the economy may also cause balance of payments disequilibrium. Such structural changes include the development of alternative sources of supply, the development of better substitutes, the exhaustion of productive resources, the changes in transport routes and costs, etc.

### **Political Factors:**

Certain political factors may also produce balance of payments disequilibrium. For instance, a country plagued with political instability may experience large capital outflows, inadequacy of domestic investment and production, etc. These factors may, sometimes, cause disequilibrium in the balance of payments. Further, factors like war, changes in world trade routes, etc., may also produce balance of payments difficulties.

### **Social Factors:**

Certain social factors influence the balance of payments. For instance, changes in tastes, preferences, fashions, etc. may affect imports and exports and thereby affect the balance of payments.

## Consequences Of Disequilibrium

### Domestic Economy

- Pressing Need for corrective action
- Due to low business confidence foreigners are reluctant to invest in such economy
- Fewer stocks , variety of exotic goods as imports are limited and heavy protectionist policies will be used
- Others are follow through, like high unemployment, reduced economic growth etc...

### External Economy

- Put pressure in govt to edit protectionist policies
- Devaluation of exchange rate

## Exchange Rates

### Nominal Exchange Rate

It is simply the price of one currency in terms of the other. They are bilateral rates as it's only between two countries

### Real Exchange Rate

The purchasing power of two currencies relative to one another. While two currencies may have a certain exchange rate on the foreign exchange market, this does not mean that goods and services purchased with one currency cost the equivalent amounts in another currency. This is due to different inflation rates with different currencies. Real exchange rates are thus calculated as a nominal exchange rate adjusted for the different rates of inflation between the two currencies.

### Purchasing Power Parity

An economic theory that estimates the amount of adjustment needed on the exchange rate between countries in order for the exchange to be equivalent to each currency's purchasing power.

The relative version of PPP is calculated as:

$$S = \frac{P_1}{P_2}$$

### Trade Weighted Exchange Rate

Multilateral rate that measures the overall nominal value of a currency in the foreign exchange market. It is computed by formulating a weighted average (reflecting the importance of each country's currency in international trade) of selected bilateral rates. In the index countries that are larger percent of trade are given greater weightage in the index

### Determination of Exchange Rates

Totally dependant on the free market for the foreign exchange market. It is determined by the supply and demand for the currency.

### Floating Exchange Rate Systems

These are the basic ones with which it follows the market forces without any intervention



**Advantage**

- Government is free to carry other objectives

**Disadvantage**

- It discourages trade as rate can become very unstable, sudden fluctuations can affect company's calculations and costs and there would always be a risk factor.
- Government do not face any pressure to exercise financial discipline , and a floating exchange rate can be inflationary

**Fixed Exchange Rate Systems**

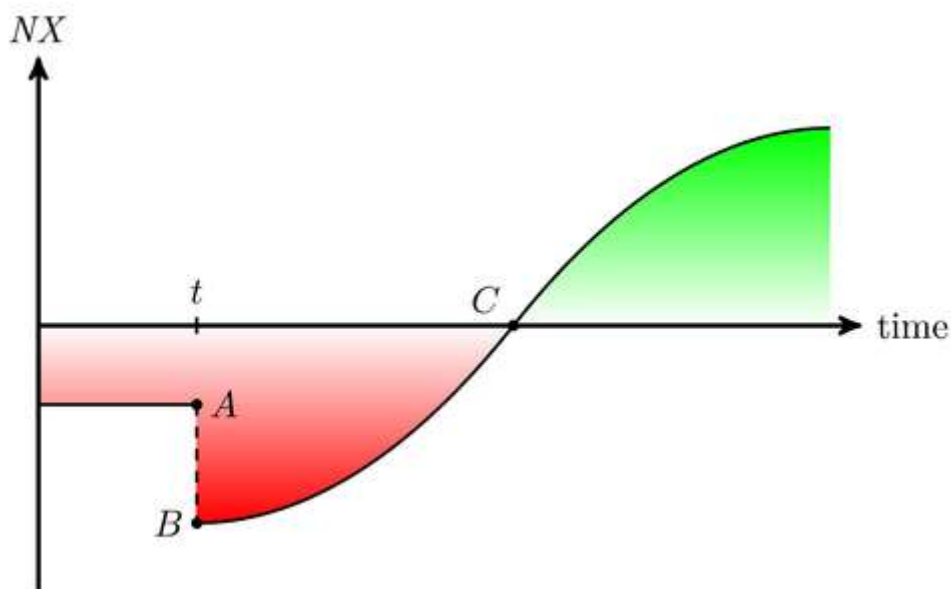
This is where the govt has a fixed pegged value where the government intervenes in the market forces to maintain that value. They can do this buying their own currency or selling the foreign currency reserves to increase the supply in the market

**Managed Exchange Rate Systems**

This is where the exchange rate mostly varies with market forces however there is some level of govt intervention. Here the currency is allowed to vary between its upper limit and lower limit. However if it crosses these limits govt intervention takes place

**J- curve effect**

In the short term a **devaluation** or **depreciation** of the exchange rate may not improve the current account deficit of the balance of payments. This is due to the low **price elasticity of demand** for imports and exports in the immediate aftermath of an exchange rate change. The diagram below shows this possibility.



Assuming that the economy begins at position A with a substantial current account deficit there is then a fall in the value of the exchange rate. Initially the volume of imports will remain steady partly because contracts for imported goods will have been signed.

## Karan Rulezzz

However, the depreciation raises the sterling price of imports causing total spending on imports to rise. Export demand will also be inelastic in response to the exchange rate change in the short term; therefore the earnings from exports may be insufficient to compensate for higher spending on imports. The current account deficit may worsen for some months. This is shown by the movement from A to B on the diagram.

### The **Inverse J Curve Effect**

An appreciation in the exchange rate can lead to a short term improvement in the balance of trade. Imports become cheaper and exports more expensive in overseas markets. But initially the elasticity of demand for both imports and exports is fairly low - leading to an overall improvement in the trade balance.

### Marshall Lerner Condition

If a balance of payments disequilibrium is to be restored then it is important that the PED coefficient for exports is greater than 1 and that the PED coefficient for imports is greater than 1. This is embodied in a condition called the Marshall Lerner Condition and this states that:

"Provided that the sum of the price elasticity of demand coefficients for exports and imports is greater than one then a fall in the exchange rate will reduce a deficit and a rise will reduce a surplus."

If the Marshall Lerner Condition is not met and the sum of the price elasticity of demand for exports and imports is less than one, then a fall in the exchange rate will bring about a worsening of the balance of payments. The fall in the price of exports will lead to a proportionately smaller increase in the number of exports demanded and the rise in the price of imports will lead to a proportionately smaller reduction in the amount demanded. Both of these factors will contribute to a deterioration of the balance of payments.

### Key Concepts

**Appreciation:** is a rise of a currency in a floating exchange rate.

**Depreciation:** is a fall of a currency in a floating exchange rate

**Devaluation:** Devaluation is a reduction in the value of a currency with respect to other monetary units. In common modern usage, it specifically implies an official lowering of the value of a country's currency within a **fixed exchange rate system**, by which the monetary authority formally sets a new fixed rate with respect to a foreign reference currency. In contrast, depreciation is used for the unofficial decrease in the exchange rate in a floating exchange rate system. The opposite of devaluation is called **revaluation...**

**Fiscal drag** refers to the process where tax thresholds are either not adjusted for inflation, or fail to keep pace with earnings growth, causing in either case an automatic rise in tax revenues.

### Example of nominal fiscal drag

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Suppose a person earns \$20,000 per year and is liable to 20% tax on earnings above a threshold of \$5,000 per year. Then they pay  $(20000-5000)*0.2 = \$3000$  in tax, or 15% of income. Now suppose that due to inflation, their wage goes up by 5%, but the government only increases the tax threshold by 2%. They must now pay  $(21000-5100)*0.2 = \$3180$  or 15.14%. The proportion of income as tax has increased - this is fiscal drag.

**Fiscal Boost** - inflation will reduce the real burden of specific taxes (I.e. taxes levied per unit of a commodity irrespective of its price) such as excise duty.  
(Needs to be revised)

**International Monetary Fund** : The International Monetary Fund (IMF) is an international organization that oversees the global financial system by following the macroeconomic of its member countries, in particular those with an impact on exchange rates and the balance of payments. It is an organization formed with a stated objective of stabilizing international exchange rates and facilitating development.<sup>[2]</sup> It also offers highly leveraged loans mainly to poorer countries

**Velocity Of Circulation**: the speed with which money whizzes around the economy, or, put another way, the number of times it changes hands. Technically, it is measured as GNP divided by the money supply . It is an important ingredient of the quantity theory of money.

**Wage Drift**: The tendency for the average level of wages paid to rise faster than official wage rates. This is due to increases in overtime, or upgrading of job descriptions.

# Measurement In the Macroeconomy

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## Unemployment

### Labour Force

It is defined as the total number of workers who are available for work, normally 16 years and over in most developed countries. This includes all people who are *able and willing to work*, employed and unemployed, those who have searched for job in past 4 weeks, but not those who haven't. So retired and students in full-time education are also not considered.

**Size of Labour Force** depends on demographic, economics, social and cultural factors such as

- Total Size of the population of working age
- The number of people who remain in full-time education after leaving secondary school
- The normal retirement age for males and females
- Number of women who join the labour force on a full or part time basis

Another Measure used is

### Labour Force Participation Rate

This refers to the % of total population or working age that are actually classified as being part of the labour force.

This tends to mean that a lower participation rate means high participation rate in education and relatively large no. of people opting for early retirement

Comparable Statistics with Developing economies are unreliable as:

- Existence of large subsistence sector
- Differences in official secondary school leaving age
- Differences In attitude towards married woman seeking paid employment
- Practical Problems of Data Collection

Demographic Trends affecting labour force in developing countries

- Birth Rates Exceed Death Rates
- Dependency Ratio are high as consequence of high birth rates and increasing life expectancy  
(Total) Dependency ratio =  $\frac{(\text{number of people aged 0 to 14}) + (\text{number of people aged 65 and over})}{\text{number of people aged 15} \rightarrow 64} \times 100$
- Rapid Growth In Urban Populations , due to migration, urbanisation has made it very difficult for such economies to provide enough jobs to meet labour force

### Labour Productivity:

Quantity of goods and services that a worker is able to produce in a given period of time.

- Even though Labour Force is a key resource, its output to a large extent is related to its skills, technical knowledge and motivation, and thus productivity.

### Unemployment

An economic condition marked by the fact that individuals actively seeking jobs remain unhired.

### Unemployment Rate

$$\text{Unemployment Rate} = \frac{\text{Number of Unemployed}}{\text{Labor Force}} 100\%$$

### Employment does cover

- Full time paid employment
- Recognised Training Schemes
- Working Minimum Number of Hours Per Week

### Those in non-montarised situations be excluded and also unpaid volunteers

### Claimant Count

These include all the people that are nationally registered as claiming unemployment benefit from the government. This does not include those receiving a form of disability benefit, or those who do not claim unemployment allowance, only those that are willing and able to find work, and *do* claim.

### Labour Force Survey

This is an internationally accepted measure used by the *International Labour Organisation* (ILO). This counts everyone without a job of any kind who has looked for a job in the past month and is willing to start working within the next fortnight. Of course since this is a *survey* and not a *census* (a survey is of a representative sample of a population, a census is of the entire population), there will always be inaccuracies and omissions in the data.

Generally, the ILO's LFS measure is higher than the claimant count, for the reasons mentioned above. When countries' unemployment levels are compared, the LFS is usually used.

## General Level Of Prices; Inflation

### Difference between CPI and RPI

- The RPI (Retail price index) includes mortgage interest payments. Thus changes in the interest rates affect the RPI. If interest rates are cut, it will reduce mortgage interest payments. Thus the RPI will fall but not the CPI.
- The RPI also includes council tax and some other housing costs not included in CPI
- The CPI includes some financial services not included in the RPI
- The CPI is based on a wider sample of the population for working out weights.

### Main Stages in Calculation

- Base Year chosen, index values 100
- 7000 households asked to keep a record of their expenditure over a period
- Used to decide goods to be included and their relevant weight according to the percentage of consumer expenditure spent on it
- Then every year, average prices of 600 goods chosen , are found and RPI is calculated
- % change in price is multiplied by weight
- Calculates weighted index. , to which we find the average and RPI is determined

### Cost of Living

$$\frac{W \times P \text{ of next year}}{W \times P \text{ of base year}} = \text{Cost of Living}$$

# Correcting Balance of Payments Disequilibria

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## Expenditure Switching Policies

1. Switch the expenditure from one aspect of goods and services to another, but not reducing gross expenditure. I
  2. Its aim is to switch spending from imports to domestically produced goods, decrease spending on imports and increase exports.
  3. Thus supply of currency in foreign exchange market will decrease and thus again raise prices and restabilise country's exchange rate. These include
- Tariffs
  - Quotas
  - Exchange Controls
  - Export Subsidies
  - Embargoes
  - Voluntary Export Restraints

However these all lead to disadvantages to consumers and interfere with market forces and prevent the benefit of specialisation of trade. Furthermore there are restrictions by WTO and thus it would lead to govt switching to expenditure dampening policies

## Expenditure Dampening Policies

1. Aim to reduce gross expenditure
2. Effects
  - Reduction in Spending means fewer purchases on imports.
  - Domestic producers find domestic market 'dampened' and thus will try increase sales abroad.
3. Therefore less imports and more exports
4. Policies include
  - **Deflationary Fiscal Policy** – raising taxes and reducing government expenditure , however the extent of reduction of imports will depend on **marginal propensity to import**(change in import spending as disposable incomes change , high means great effect)
  - **Deflationary Monetary Policy**- raising interest rates and reducing money supply , higher interest rates will attract foreign capital and also reduce money supply, reducing aggregate demand