Section 8: The market mechanism, market failure and gout intervention

#### Functions of price

Rationing function - TP rations demand to those orble to afford the als

Signalling Runction - prices provide important into to market participants

Incentive function - prices create incentives for market participants to change their actions

Allocative function - diverts resources to where returns can be maximised

Price mechanism - the way the basic economic problem is resolved

#### Market failure

Missallocation of resources - resources are not put to their best effective use

complete market failure - free market fails to create a market for the good/service (missing market)

Partial market failure - market leads to a misallocation of resources

## Public goods, private goods, quasi-public goods

- Pure public good is both non-rival + non excludable (missing market)
- Non-rival a person's enjoyment does not diminsh another person's enjoyment of the
- Non-excludable not possible to prevent non-paying electories from consuming the
- free order problem Individuals hope to get a free orde without paying for the benefit
  - e.g. flood defences (homeowners wait for others to find defences)
- Private goods a good that is both wal and excludable in consumption
- Quasi public partially non-excludable + non reval
  - Creation of these goods are due to technological change (TV bood askian,

Externalities - Ignoring externalities reads to market failure, trel-re knock on effect upon - private costs - cust to an individual producer

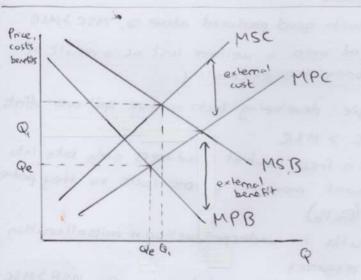
- Private benefit , benefit to an individual consumer
- social cost = private cost + external cost
- social benefit = private benefit + external benefit
- Positive externality positive knock on effect of economic transaction upon 3rd parties
- Negative externally negative knock on effect of economic transaction upon 3rd parties

Externally graphs (AS) Production externalities (wetter tre or -re) = associated with costs (supply cure) Sp (Social cost) P pollution generated by factory - Example external S, (Private cost) Ρ, Social costs exceed private ousts Firms do not take Producers in free market take into account indo costs to society private costs so produce (9, P1) D Socially optimal point (Q2P2) Q. overproduction is shown by (Q,P,) (misalloration of resources) tre Example: Leveloping tech = trespillarer S. (Private costs) Parale costs exceed social costs Sz (Sucial custs) Producers in free market only take into Firms do not take account private costs so produce at (Q, P,) into account the cost reduction to other Socially optimal point (92P2) Arms that berefit from spillover undeproduction is shown by (QIP,) effects emissalocation of resources) x2 mac underestimated Consumption externalities (wether the or -ve) = associated with benefits (demand cure) re Example ! smoking Private benefits exceeds social benefit consumers do consumers in free market only take into not take into exten costs account custs from account private benefits so consume consuming the at (Q, P,) product to society P. socially optimal point (92Pz) PZ overconsumption is shown by LQ(P1) Oz (social) D, (Private benesits (missallocation of resumes) overestimated - Example , education +ve social benefits exceed private benefits consumers do consumers in a free market only take not take into account the Pz into account probate benefits so consume benefits from consuming the product at (Q1 P,) PI to society socially optimal point (92 P.) Dz (Social under consumption is chann by (Q, P,) D, (Privale benefits (missalluration of resources) underermoted Q2

Externality graphs (A2 Mote. curves can sometimes be diverging not always parallel Production externalities (wether tre or -re)=associated with costs (supply curve) -re MSC - Example, pollution generated by a factory Prie wsts benefits Firms do not take MSC > MPC P. into account In a free market producers only take into costs to Pe society account marginal private costs so they produce at (Qe Pe) MPB = MSB Results in overproduction = missallocation of Qe resources NOTE Socially +46 For each good produced above Q, MSC>MSB ophmal point for every duchy MPC is Q.Pi Example: developing tech = tre spillorer effects Firms do not MPC > MSC take into account In a free market producers only take into the cost reduction Pi to other firms that account marginal private costs so they produce relfore benefit from spillorer quin e Hects ot (Qe Pe) Results in underproduction = missallocation MPB = MSB of resources Q Between Qe and Q, MSB > MSC Qe Consumption externalities (wether tre or -ve) = associated with benefit (demand - re - Example: consumption demen't good leads to adverse MSC = MPC consequences for third party eig smoking conumers do not MPB >MSB take into account costs from consuming In a free market consumers only take into the product to society account marginal private benefits so they P. consume at (Qe Pe) Results in overconcumption = missallaction MPB MSB of resources For each good consumed above Q, MSC>MSB Q, Qe tre - Example, consumption of ment good generates MSC = MPC benefits for 3rd parties e.g. vaccinations welfare consumers do not MSB > MPB take into account In a free market consumers only take into the benefits from consuming the production account morginal private benefits so they to society consume at (Qe Pe) Results in underconsumption = missallocation MSB of resources MPB Between Quand Q, MSB > MSC Q Qe Q,

#### Rules.

- For negative externalities more social cume to the left
- For positive externalities more social curve to the right
- Vertical distance between social benefit and social cost + shade in the triangle that points towards the social optimal
- For all the graph operating at MSC = MSB, the deadweight welfare loss is eliminated (in terms of -ve externalities). The welfare gain is obtained from operating at MSC = MSB (in terms of the externalities)



- operating of MSC = MSB is the a social y opinional level and takes in account the social benefit or cost from production (consumption
- operating at MPC = MPB happens when social benefits I costs are not accounted for and only private benefits or costs are accounted for

Ment goods

- underconsumed ? expensive - overconsumed ? don't realise the costs (imperfect info)

- underconsumed ? expensive - overconsumed ? don't realise the costs (imperfect info)

- Results in positive externalities

#### Market imperfections

Imperfect information - don't know everything needed to make imformed decisions Asymmetric information - one economic agrent knows more than the other Symetric / perfect info - info equally available to all participants in the market

#### Monopoly

Thamers to entry (market failure)

#### Immobility factors

Immobile FOP's

- Land / Large apital is immobile, therefore undervised
- Results in inefficency (missalluration of records / market failure

#### Labor immobility

- geographical immobility due to . varying house prices
  - · imperfect into an job oppurturity
- Results in ineffercy / missallocation of resources

#### Inequitable distribution of income and wealth

- Free market leads to inequitable / uneven distribution of income threalth
- The poor mannet afford acress to vital resources Isenices while rich can = Tirequality
- Tresources allocated to people who can afford leaving poor in low living standards

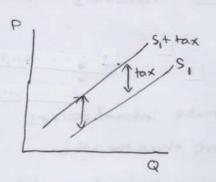
#### aut intervention

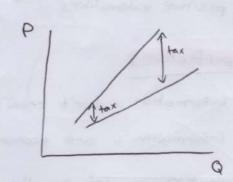
- peason for intervention. Free market fails to achieve equitable allocation of resources
- contincorrects market failure
  - · actieve equitable distribution of income twealth
  - · active gout macrosenomic objectives

#### Indirect taxation

specific tax - tax per unit

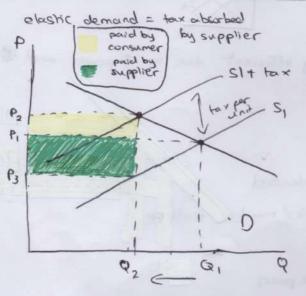
Ad -valoren tax - percentage tax





on higher prized goods

#### Eloshcites of demand on indirect taxation



ourea of both shoded is tax revenue Proposition demand = most of two passed onto consumer of the x

#### Advantages

- costs of -ve externalises are internalised
- Revenue from tax used to offset externally if tax does not reduce demand

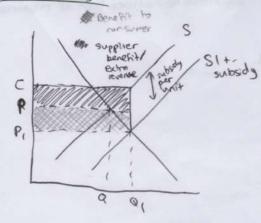
#### Disadvantages

- Diffrect best tear to achieve along
  - of demand (does not reduces lemand by small amounts when inclosive)
- Firm relocate to avoid taxation
  - Tax money may not be spent to reduce -ve externalities
    - Tax has reggressive effects on

#### Examples (current)

- tax or petrol, tabbacco, alcholo exciseduly + od where tax
- Land fill tax environmental tax

#### Subsidies

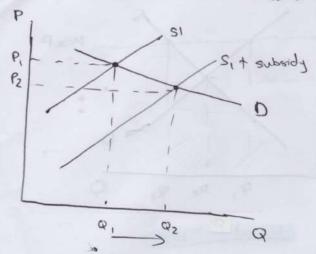


- Total area = cost of subsidy to gout
- encourages production/consumption
  of goods/services with the externalities
- A grant given by good to Powhout and consumption

Elastic demand = large T

Elasticites of clemand on subsidies

Inelastic demand = low Tindemord



#### Advantages

- Benefits are internalised (cost of the externally carered by gout so UP of good
- T incentive to supply goods with the
- Make goods (services more affordable
  - subsidies can support a domestic industry until it grows and achieves economies of scale = internationally competitive
  - Subsidies used to fund imesiment/research

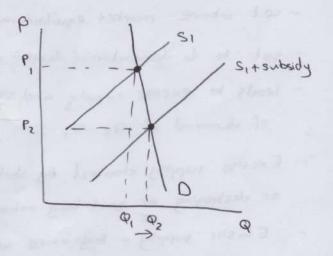
### Maximum proe (price cieling)

- set below market equilibrium

- set to 1 consumption of men't good
- Leads to excess demand and shortage of uppry of as-a"
- Excess demand cleared by rationing
- Elastic supply = Texcess demand (vie)
- Elasticalemand = Lexcess demand (vice

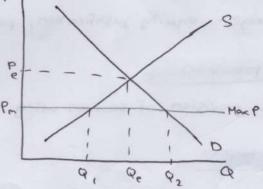
#### Advantages

- Taffordability (promotes equity)
- I consumer welfare (1 communes explaination by moropoles)
- 1 competition (businesses but rosts to maintain MAGRA



#### Disadvantages

- Difficult to determine size of subsidy
- Subsidies may not be used by
- firms to fund production May be used to fund environmentally
- Has an appurhunity cost methods
- They make producers wetherend and reliant on this aid so ballocative offerey = uproducty
  - Effectiveness depend on elasticity of demand
- Subsidized goods may not be as good as imported goods
- subsides = 1 burden on toxpayers



#### Disadvantages

- too much demand = creation of shartage
- creation of black market
- Market distortion
- Depends on elasticity of demand and
- Maximum rents (reduce onto on

#### Minimum price (price Floors)

- set above market equilibrium
- set to make sure suppliers get a tall piece
- leads to excess supply and shortage
- Excess supply cheared by shockpilling or deshoying or gout buy extra stock
- Elastic supply = big excess supply (vice)
  - Elastic demand = big excess supply (vice)

#### Advantages

- Producers have guarenteed min income
- Encourage production of essential foodshift
- stockpite can be used when there is shortage (due to bod weather)
- Restricts monopsony power (reduces firms

#### Examples

CAP - goarentees min proce paid to formers
Alcohol - reduce -ve externalises in consumption

Min wage - equity justification, powerly reduction, Training, Mincentives to work

#### State provision

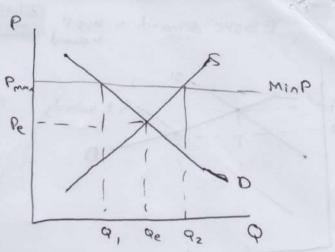
- ant provision of services using tax e.g. NHS, state education, public goods

#### Advantages

- 2 buog ting to neitgauenos ? -
- Free provision = 1 inequality = 1 dichieuten
- Allows goods to be free to the point at consumption

#### Example

- Healthrare - healthier population = 1 productivity



#### Disadvartages

- Consumers pay higher price than equilibrium price
- Inefficient allocation of resources used to produce excess supply
- opportunity oust of gout spending on min proce schemes
- Destroying goods = woste
  - Price high reducing competations
  - Reduces affordability of demen't goods = seek cheaper more harmfull alternative
  - Depending on prize elasticity of demand and supply

#### Disadvantages

- Reduces incensive to operate efficiently due to absence of price mechanism
- state provision fail to respond to demand as it lacks profit make
- oppurhundy cost
- Reduce individuals self reliance

#### Regulation

- controlling the activity of producers/consumers to change their undesirable behavior (correct market failure) backed by lines

#### Advantages

Reducing use of demen't goods (bonning)

- Difficult to work out acceptable level
- Reducing power of monopolies (price cops) 1 cost of production loperation of firms
- Solving asymmetric into (protects insures) Monitoring compaliance of regulation is exerpensive

#### Examples

- Renewable energy (ROCs) (renewable obligation certificates)
- Correcting information failure labelling on food, health warning on ciggarettes

#### Nationalizing

#### Advantages

- Ensures the industry provides the a and s , the country needs (operate in best intert of society)
- acout can set price and output that benefits society
- Gout pay public sector fair wages
- Govt pay suppliers fair price

#### Disadvantages

Disadvontages

- No profit motive =Xinefficient
- Nationalised firms rould act productly leading to moral brazard as they rely on the gout to bail them out

#### Privitisation

- Transfer of ownesship of a firm / industry from public sector to pruate sector
- characteristics sate of public firm, gout contracting outservices to private firms, competitive tendering, ppp (public private partnerships) where gout contracts private firms to run a project eig build hospital/school

#### Advantages

- 1 competition = 1 resource allocation = 1 X-inefficiency = 1 allocative efficiency
- Enables building of facilities the gout carnot afford (in sk don't have to pay much)
- Gout goins revenue from selling the
- Efficiency incentive = drive dynamic efficiency

#### Disoduantages

- Public monopoly could become a private monopaly- L productive + allocative effectency
- Loss of natural monopoly and economics of scale benefits = U productive copacity
  - Private firms have less focus on salely and quality
  - Private firms ignore externalities as it does not align with profit goals

private - PFI needs to be paid back in LR finance so T budget deficit = Ttaxes

#### Deregulation

- Remaring / reducing regulation
- used alongside privitisation to remove legal barriers

#### Advantages

- Tresource allocation = Tefficiency
- Markets become more contestable
- Prevents privaissed public monopoly from becoming a private manopoly

#### Disadvantages

- Difficult to deregulate natural monopolits
- Desn't fix other market failures e g. neg externalities, consumer inertia, immobile
  - Less safely and protection for workers

ant fathure - when gort in terrention leads to missallocation of resources Causes

- Market distortions (min/max price create shortage(surpluses)
- Subsidies disincentivise firms to be efficient
- Excessive regulation slows down processes = Lefficiency = time lags (cannot to respond to consumer demand)
- conflicting objectives a stricter emissions regulation = firms howe reduced output = JenbloduerF
  - T road capacity = Troad usage in LR = environmental conflict
- Inadquate information. Taxes + subsidies not set at efficient level
  - . Gout does not have perfect into an how the population
- wants resources to be allocated Adminstrative costs goot interention have high costs
- a regulated industry may influence | pressure their Regulating capture regulatory body into making decisions that benefit them rather than consumers

## Examples min price

- leads to distortions in agricultural markets as enounges upt Subsidies have high appurhally cost
- Housing market · Leads to distortions in housing market Development in black market
- Road congestion schemes . Tookigh charge = reduced efficient hode/buisness = underulitisation
  - · roo law charge = low impact on haffic levels
- Fishing quotes . when quotes exceeded dead fish is thrown overboard = western and domages fish stocks
  - Fish stocks are still depleting

# How market forces allocate resources/price lexplination to use in essay)

With any good or service, production and consumption should be left to the free market if there is an absence of a significant failure in the market. This is because the market mechanism is the most efficient way of allocating scarce resources and any intervention in the market could cause a misallocation of resources. Market forces work to allocate resources through the functions of the market. The market will head towards equilibrium as higher or lower prices will send incentives to suppliers to move into or out of a market thus increasing or reducing supply and the rationing function will influence demand. Both producers and consumers will act depending on the signals the price in a market sends. This leads the market to be an efficient way of determining the equilibrium price and output in a market.