Best Uses:

- sustainability / unsustainability welfare gain (maket increases in size)
- welfare gain (underproduction/consumption)
- welfare loss (overproduction/consumption)
- supports arguments for regulation of markets to
- cope with over and under production +
- consumption

ED 2: externalities

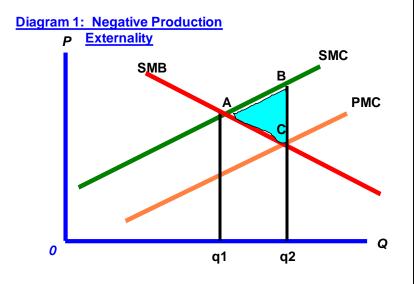
<u>4 Diagrams you need for</u> Externalities

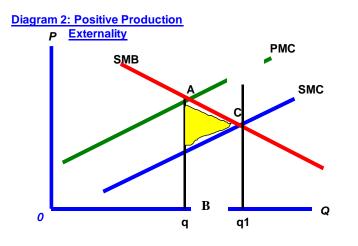
(4 uses of the MsB/MsC diagram)

How to draw the diagram correctly? See the 'blue box' in webnote 141.

- addressing market failure 2.4¹: diagrams 1-4
- overproduction' in Perfect Competition 2.2 (HL) diagram 1
- Macroeconomic statistics do not measure externalities 3.1
- This diagram could also be used in conjunction with welfare economics / producer and consumer surplus. See webnote ED 2.
- See webnote 252 for an explanation of welfare loss
- To illustrate Poor resource allocation/ economic or resource efficiency

Production externalities





Negative Externality of Production COMMENT: DIAGRAM 1

- Q1 is the socially efficient level of output
- Market supplies q2
- **Overproduction** = area abc
- Abc = welfare loss
- This is a welfare loss or cost to society of the market failure. ABC can also be referred to as ' dead weight loss'
- Examples are environmental pollution caused by industry that damage the environment and increase costs to society

Positive Externality of Production COMMENT: DIAGRAM 2

- Q1 is the socially efficient level of output
- Market supplies q
- **Underproduction** = area abc
- Abc=welfare loss
- This is a welfare loss Society of the market failure.
- Example would be a chemical plant installing a water purification system that benefits other local firms e.g. a local fish farm is not paying for cost of clean water

Welfare loss

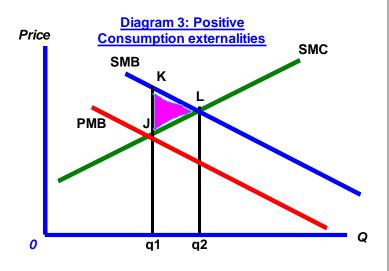
= a non optimal allocation of resources.

MsB is not equal to MsC

¹ For further reading see the article on page 6 of the Economic Review, April 2003 issue, Volume 20, number 4. Title is <u>Externalities</u>

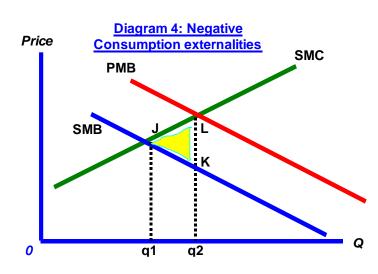


<u>4 Diagrams you need for Externalities</u> <u>**Consumption externalities**</u>



COMMENT: DIAGRAM 3

- Q2 is the socially efficient level of output
- Market only supplies q1
- **Underconsumption** = area of jkl
- Jkl = welfare loss
- This is a welfare loss to society
- Could apply to education (society benefits from educated individuals) and health care (avoiding an epidemic) in an LDC or to the construction of beautiful buildings that enhance the local environment



COMMENT: DIAGRAM 4

- Q1 is the socially efficient level of output
- community supplies q2
- **Overconsumption** = area of jkl
- Jkl = welfare loss
- This is a welfare loss to society
- Example would be an individual listening to loud music that affects local neighbours
- Demerit goods e.g tobacco, drugs