Efficiency and Equity

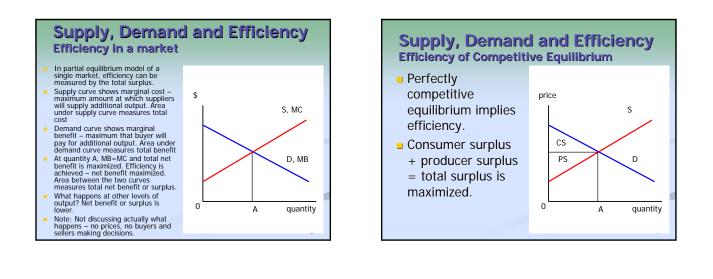
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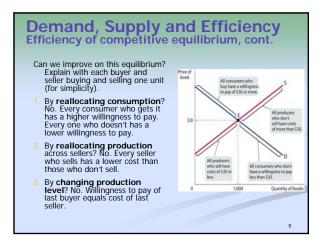
Reading: Chapter 13

In this topic we examine: (1) notion of efficiency and equity; (2) how and why the perfectly competitive economy can achieve efficiency; (3) why, however, it may not; (4) notion of equity and how it is different from efficiency.

Efficiency and Equity

- a. Supply, demand and efficiency
- b.General equilibrium and efficiency
- c. Inefficiency in the economy
- d.Efficiency and equity
- e.Equity and fairness

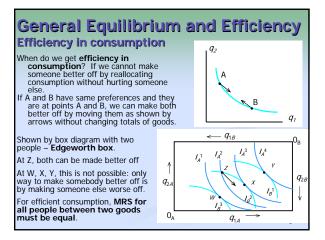


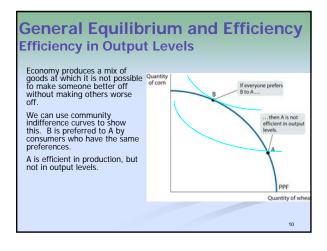


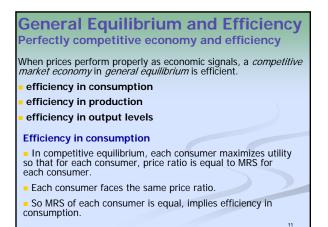


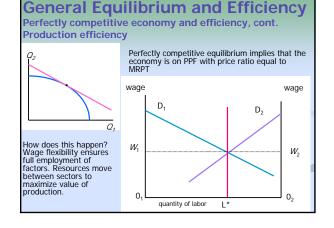
General Equilibrium and Efficiency Efficiency in the economy as a whole

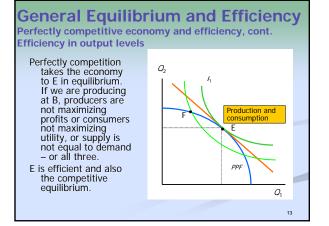
- So far looked at one market. But we are interested in efficiency in the economy as a whole. Many markets, many goods.
- General notion of efficiency: a situation in which no one can be made better off without making someone else worse off. (Is this an appropriate definition? Alternative: total utility of all individuals maximized. Interpersonal comparisons of utility.)
- To achieve efficiency, economy has to meet three criteria:
 Efficiency in consumption: no way to distribute goods among consumers which will make some better off without making someone else worse off.
 - Efficiency in production: no way to produce more of some good, given technology and resources, without reducing production of some other goods.
 - Efficiency in output levels: the economy producing the right mix of goods so that it is not possible to change the mix to make someone better off without making others worse off.

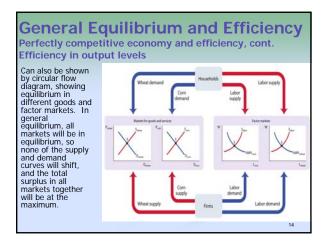












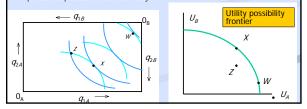
Inefficiency in the Economy

- Market power. If some markets have a few (or even one) sellers or buyers, the markets will not be perfectly competitive. These agents may use their market power to prevent prices provide proper economic signals. Example, monopolies can keep prices high, reducing quantity produced.
- **Externalities**. Activities of agents can have direct effects on others rather than effects through markets. Example pollution by a firm hurting consumers. There is normally no market for pollution. So firms pollute without taking costs imposed on consumers into account.
- Public goods and common resources. Some goods or services are not suited for efficient management by markets. Defense. Information. Fishing.

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Efficiency and Equity

- An efficient outcome for society does not necessarily mean that the outcome is desirable. It may not be desirable, for instance, if one person in the economy gets all the goods and services produced and therefore has a very high level of utility, while others get next to nothing. May not be equitable.
- Shown by point W on the Edgeworth box with fixed quantities of two goods, 1 and 2. X may be considered more equitable also efficient. Z may be more desirable for society than W, although Z is inefficient.
- Also shown with an **utility possibility frontier** which shows maximum utility for one person (say, B), given utility levels of all others (say, A). Points on the frontier are efficient. Why? Must be downward sloping, Why? They need not hold output of goods to be constant, but production must be on production possibilities frontier. Why?

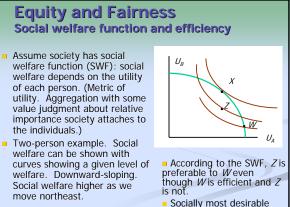


Equity and Fairness

Economists and philosophers have proposed many notions of equity, fairness and justice.

Some focus on fair **processes**, some on fair **outcomes**. **Fair processes** look at the 'rules of the game' – the economy can be like a lottery – if everyone has an equal chance of winning, fair. Outcomes need not be equitable. How does one ensure an even playing field? But what is the gap in rewards between winner and loser? Some stress that the rules of the game should also involve respect for individual rights – for instance, the right to private property and free choice, even if the outcome is not equitable.

- If one wants to focus on **fair outcomes**, there are two questions: With **what metric** to see how well people are doing? Real income, utility, ability to achieve some desirable goals like being educated, healthy? Or in terms of some 'primary' goods food, clothing, etc. But which ones?
- Which ones? How to tell whether an outcome in terms of this is just or not? That is, how to **aggregate** over individual outcomes? Two well-known examples. Utilitarians add up utility of all and try to maximize it. But can, one compare different people's utilities? John Rawls argues outcomes are more desirable if the worst-off individuals are doing better veil of ignorance idea: any one of us could be the worst-off individual. More generally, can have a social welfare function society's welfare depends on how individuals do.



Socially most desirable point is X.