

Consumer and Producer Surplus

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- Applications

Introduction

Connections to:

- Opportunity costs to consumers and producers
- Marginal Decisions: to obtain supply and demand curves and gains to buyers and sellers
- Supply and Demand: to examine markets
- Gains from Trade: What is the gain from trade due to markets
- Efficiency: How markets promote efficiency
- Government interventions: How to measure efficiency losses?
- Elasticity: How does elasticity affect efficiency losses



























The maximum possible total surplus is achieved at market equilibrium.

In market equilibrium there is no way to make some people better off without making others worse off \rightarrow market equilibrium is efficient.

Hypothetically possible to increase efficiency by:

Reallocating consumption among consumers

- Reallocating sales among sellers
- Changing the quantity traded

None of these will increase the surplus but instead reduce it.

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Efficiency and the Gains from Trade Four functions of the Market which maximize surplus 1. Allocates consumption of the good to potential buyers who value it the most (in terms of their willingness to pay). 2. Allocates sales to potential sellers who most value the right to sell the good (in terms of cost). 3. Ensures that every consumer who makes a purchase values the good more than every seller who makes a sale.

 Ensures that every potential buyer who doesn't make a purchase values the good less than every potential seller who doesn't make a sale.

Efficiency and the Gains from Trade Caveats

- Market outcome is not the best for each person.
- Distribution is not taken into account more willingness to pay may be due to having more income, not stronger preference.
- Market failures. Examples:
 - Monopoly
 - Externalities
 - Imperfect information
 - Public goods



Application

Deadweight Loss and Elasticities

Deadweight loss measures loss in total surplus due to tax.

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What kinds of market produce a lower deadweight loss when tax is imposed?

For a tax imposed when demand or supply, or both, is inelastic will cause a relatively small decrease in quantity transacted and a small deadweight loss.

If objective is to reduce quantity, then better to have higher elasticity.



