Chapter 4 Valuing Benefit and Cost in Primary Markets

Primary Markets: Directly affected by a policy or project

Secondary Markets: Indirectly affected

<u>Competitive Market</u> (Perfect Competitive):

Pareto Efficiency: Ideal Market based on Microeconomics Theory

Distorted Markets (Market Failures or Government Failures)

Pareto Inefficiency: <u>Monopoly</u>, Information Asymmetry, <u>Externalities</u>, Public Goods and so on.

Measuring Benefits in (Pareto) Efficient Markets



Social surplus change (ignoring costs of project inputs to the government):

Project (a): Direct increase in supply of q'-gain of triangle abc plus project revenue equal to area of rectangle q₂cbq₁

Project (b): Supply schedule shift through cost reductions for producers-gain of trapezoid abde

Monopoly

Monopoly: Only one firm in the market Monopoly firm can choose the level of <u>price</u> and <u>output</u>.



Profit Maximizing Output

Revenue and Marginal Revenue



Natural Monopoly

Large fixed costs and small variable cost

Subsidy Regulation

e.g. **Public utilities** (roads, railway, bridges, gas, electricity) Effect on *Economies of Scale*



Externalities

Goods, but <u>not sold on markets</u> (positive and negative)
Social Cost = private cost + impose on other agents

