Economic Foundations

Topic 1

Learning Objectives

- Understand and apply the three key economic ideas
- Describe the framework that economists use to model human behavior
- Address the economic problem
- Learn about economic models
- Distinguish the two main branches of economics: micro- and macroeconomics
- Define the discipline of economics

What is Economics?

 'economics' comes from the Greek word oikonomia — oikos (house) — nomos (law, rule)

 Economics tries to answer the question of how households manage their resources.

The study of human decision-making.

Key Economic Ideas

- Market
 - A group of buyers and sellers of a good or service and the institution or arrangement by which they come together to trade
- Assumptions about markets:
 - People are rational (Rational decision-maker)
 - People respond to economic incentives (Incentive Principle)
 - Optimal decisions are made at the margin (Cost-benefit Principle)

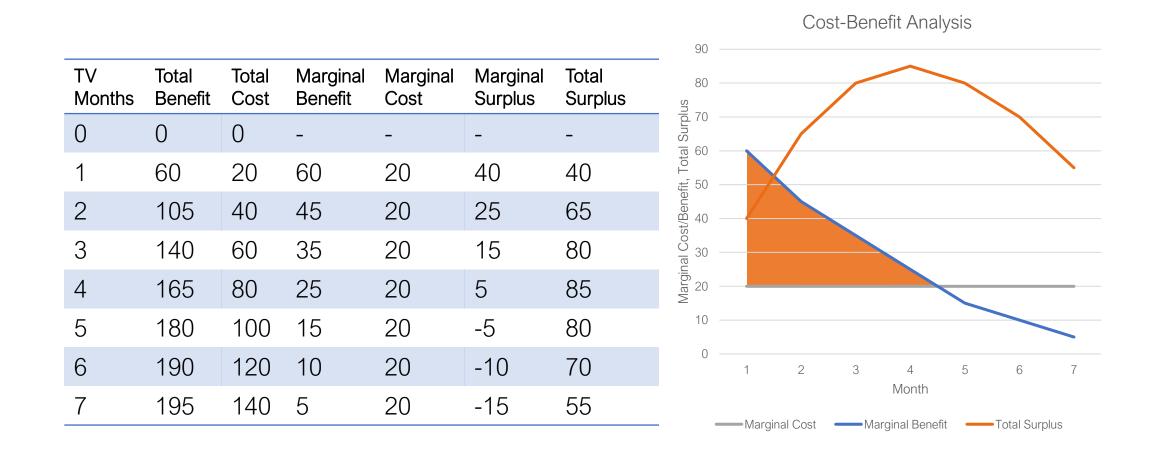
Marginal Analysis Example

- Cost-Benefit Principle
 - An individual should undertake an activity if and only of the additional benefit of doing so is greater than or equal to the additional cost of doing so.
- Cost-Benefit Analysis
 - Direct comparison of the marginal benefit of the activity to the marginal cost of the activity
- Marginal Benefit
 - The change in the value of total benefits as more of an activity is undertaken
 - Diminishing returns: the additional value from doing an activity declines as it is consumed more
- Marginal Cost
 - The change in the value of total cost as more of an activity is undertaken

Marginal Analysis Example

TV Months	Total Benefit	Total Cost	Marginal Benefit	Marginal Cost	Marginal Surplus	Total Surplus
0	0	0	_	-	-	-
1	60	20				
2	105	40				
3	140	60				
4	165	80				
5	180	100				
6	190	120				
7	195	140				

Marginal Analysis Example – Ctd.



What is Economics? – Ctd.

- Do you have everything you want?
- Why don't you have everything you want?
- What are some scarce resources that you face?
- What does scarcity force us to do?
- What did you give up to be here today?

What is Economics? – Ctd.

Scarcity

- A universal phenomenon that arises because resources are limited.

- Trade-offs
 - Acquiring more of one thing can often only be done at the expense of getting by with less of something else.
- Opportunity Cost

- The cost of a good in terms of another good that must be given up.

The Economic Problem

- Thinking about how a society uses its scarce productive resources, three fundamental questions must be addressed:
 - What to produce? Production decision
 - How to produce? Resource use decision
 - For whom to produce? Distributional decision
- How societies answer these three questions is reflected in their economic system.
- Economic system reflects the rules and methods put in place by a society to determine what goods are produced, how they are produced and for whom they are produced.

Economic Systems

- Whether we categorize economic systems by resource allocation mechanism or political ideology, the following three are consistent:
 - Planned economy/ Socialism
 - Mixed economy
 - Market economy/ Capitalism
- Commonalities among different economic systems are four primary institutions:
 - Households
 - Firms
 - Markets
 - Government

Economic Systems – Ctd.

- Planned Economy/ Socialism
 - Socialism is defined by government ownership of resources and relies upon centralized decision making to allocate productive resources.
 - For example:
 - Soviet Union, North Korea, Cuba, Nicaragua, Venezuela
- Marx' Communism
 - economic system in which the means of production are collectively owned by all of the people in a society (without intervention by a government or state).

Economic Systems – Ctd.

Mixed economies

 blending elements of market economies with elements of planned economies, free markets with state interventionism, or private enterprise with public enterprise.

Social Market Economics

- Balances the freedom of the market with equitable social development.
- Access to finances, health, and education are regulated by government.
- For example:
 - European Union

Economic Systems – Ctd.

- Market Economy/ Capitalism
 - Capitalism is defined by private ownership of resources, and relies upon decentralized decision making in free markets to allocate productive resources
 - For example
 - United States
- Consumer Sovereignty
 - the freedom for an individual to choose to purchase (or to choose to not purchase) a good or service at a price determined in a free, unfettered market
- Robert Bosch
 - I don't pay good wages because I have a lot of money; I have a lot of money because I pay good wages.

Efficiency vs. Equity

Efficiency

- Productive efficiency:

A situation in which a good or service is produced at the lowest possible cost.

- Allocative efficiency:

a state of the economy in which production is in accordance with consumer preferences; in particular, every good or service is produced up to the point where the last unit provides a marginal benefit to society equal to the marginal cost of producing it.

Equity

- The "fair" distribution of economic benefits.

What is Economics? – Ctd.

- Economics is the Social Science that studies how people make decisions in the face of scarcity and the resulting impact of such decisions on both society as a whole and on the individual therein.
- How does Economics differ from other disciplines that also study human decision-making?
 - Marginalism as its methodology
 - Opportunity cost as measurement
 - Actors as rational decision-maker

Economic Models

- A simplified version of reality used to analyze real-world economic situations.
- Developing an economic model
 - 1. What are the underlying assumptions?
 - 2. What is a testable hypothesis?
 - 3. What data allows for testing the hypothesis?

Positive vs. Normative Analysis

- Positive analysis
 - Aims to describe how the world actually is or actually functions
 - Observations on or predictions about outcomes, without judging of their desirability
- Normative analysis
 - Aims to assess the desirability of how the world is or functions
 - Statements explicitly or implicitly supported by priorities, goals, and value judgements of the person making the statement
- Disagreement among economists
 - Over a positive statement: because not enough data and evidence has yet been gathered to prove the statement either true or false.
 - Over a normative statement: because of different opinions, priorities, or value judgments.

What is Economics? – Ctd.

- Economics is the Social Science that studies how people make decisions in the face of scarcity and the resulting impact of such decisions on both society as a whole and on the individual therein.
- This implies:
 - "Micro-level": The individual within an economy
 - "Macro-level": The economy as a whole

Microeconomics

- Is the branch of economics which studies how individual decisionmakers behave and interact with each other.
- Often focuses on how households and firms behave and interact with each other in markets.
- For example:
 - How do households allocate its scarce resources among its various members, taking into account each member's abilities, effort, and desires?
 - Who cooks dinner? Who does laundry? Who goes grocery shopping? What is consumed?

Macroeconomics

- Is the branch of economics which studies the functioning and performance of a society's economy as a whole.
- Often focuses on levels and changes in aggregate measures.
- For example
 - How can problems in the housing market spread to the rest of the economy?
 - Why are so many countries poor? What policies might help them grow out of poverty?
 - What is a trade deficit? How does it affect a country's well-being?

The Importance of Economics

- Economists develop conceptual models of behavior to predict responses to changes in policy and market conditions.
- Economists use rigorous statistical analysis to investigate these changes (Econometrics).
- Thus, they contribute to the development of many public policies, including health care, welfare, and school reforms and efforts to reduce inequality, pollution, and crime.
- Whether you major in economics or not, economic fundamentals may help to better understand "what is going on in the news" and provide a tool for making decisions in everyday life.

Summary

- Marginal Analysis is the direct comparison of the marginal benefit of the activity to the marginal cost of the activity.
- Three Economic Questions: What, How, and for whom to produce?
- Positive analysis aims to describe how the world actually is or actually functions.
- Normative analysis aims to assess the desirability of how the world is or functions.
- Microeconomics studies how individual decision-makers behave and interact with each other.
- Macroeconomics studies the functioning and performance of a society's economy as a whole.