

# Concepts, Methods and Issues in Economics: An Introduction

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# SCARCITY AND EFFICIENCY: THE TWIN THEMES OF ECONOMICS

- What is economics?
- Over the last half century, the study of economics has experienced to include a vast range of topic.
- What are the major definitions of these growing subjects?
- The important ones are that economics:

# Economics...

- analyzes how a society's institutions and technology affects prices and the allocation of resources among different uses.
- explores the behaviour of the financial markets, including interest rates and stock prices.
- examines the distribution of income and suggests that the poor can be helped without harming the performance of economy.
- studies the business cycle and examines how monetary policy can be used to moderate the swings in unemployment and inflation.

# Economics

- studies the pattern of trade among nations and analyzes the impact of trade barriers.
- looks at growth in developing countries and proposes the way to encourage the efficient use of resources.
- asks how government policies can be used to pursue important goals such as rapid economic growth, efficient use of resources, full employment, price stability and fair distribution of income.

# And....

- This list is a good one, yet you could extend it many times over. But if we boil down all these definitions, we find one common theme:

***Economics is the study how societies use scarce resources to produce valuable commodities and distribute theme among different people***

# Three basic questions: [1]

- ***What* commodities are produced and in what quantities?**
- A society must determine how much of each of the many possible goods and services it will make and when they will be produced.
- Will we produce pizzas or shirts today?
- A few high-quality shirts or many cheap shirts?
- Will we use scarce resources to produce many consumption goods (like pizzas)?
- Or we will produce few consumption goods and more investment goods (pizza making machine), which will boost production and consumption tomorrow.

# Three basic questions: [2]

- **How** are goods produced?
- A society must determine how will do the production, with what resources, and what production technique they will use.
- Who farms and who teaches?
- Is electricity generated from oil, from coal or from the sun?
- Will factories be run by people or by robots?

# Three basic questions: [3]

- ***For whom*** are produced?
- Who gets to eat the fruit of economic activity? Is the distribution of income and wealth is fair and equitable?
- How is the national product divided among different households?
- Are many people poor and a few rich?
- Do high incomes go to teachers or athletes or autoworkers or Internet entrepreneurs?
- Will society provide minimal consumption to the poor, or must people work if they are to eat?



# TEN PRINCIPLES OF ECONOMICS

A household and an economy face many decisions:

- Who will work?
- What goods and how many of them should be produced?
- What resources should be used in production?
- At what price should the goods be sold?

# TEN PRINCIPLES OF ECONOMICS

- Society and Scarce Resources:
  - The management of society's resources is important because resources are scarce.
  - *Scarcity*. . . means that society has limited resources and therefore cannot produce all the goods and services people wish to have.

# TEN PRINCIPLES OF ECONOMICS

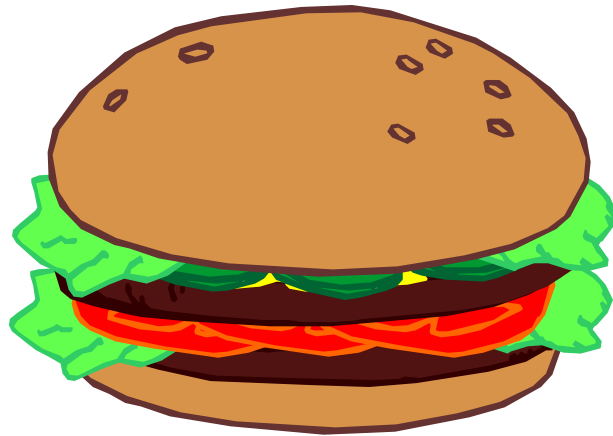
*Economics* is the study of how society manages its scarce resources.

# HOW PEOPLE MAKE DECISIONS

- People face trade-offs.
- The cost of something is what you give up to get it.
- Rational people think at the margin.
- People respond to incentives.

# Principle #1: People Face Trade-offs.

- “There is no such thing as a free lunch!”



# Principle #1: People Face Trade-offs.

- To get one thing, we usually have to give up another thing.
  - Guns v. butter
  - Food v. clothing
  - Leisure time v. work
  - Efficiency v. equity

Making decisions requires trading  
off one goal against another.

# Principle #1: People Face Trade-offs

- Efficiency v. Equity
  - *Efficiency* means society gets the most that it can from its scarce resources.
  - *Equity* means the benefits of those resources are distributed fairly among the members of society.

# Principle #2: The Cost of Something Is What You Give Up to Get It.

- Decisions require comparing costs and benefits of alternatives.
  - Whether to go to college or to work?
  - Whether to study or go out to watch a movie?
  - Whether to go to class or sleep in hostel/play?
- The *opportunity cost* of an item is what you give up to obtain that item.



# Principle #2: The Cost of Something Is What You Give Up to Get It.



- Basketball star LeBron James understands opportunity costs and *incentives*. He chose to skip college and go straight from high school to the pros where he earns millions of dollars.

# Principle #3: Rational People Think at the Margin.

- *Marginal changes* are small, incremental adjustments to an existing plan of action.

People make decisions by comparing costs and benefits at the margin.

# Principle #4: People Respond to Incentives.

- Marginal changes in costs or benefits motivate people to respond.
- The decision to choose one alternative over another occurs when that alternative's marginal benefits exceed its marginal costs!

# HOW PEOPLE INTERACT

- Trade can make everyone better off.
- Markets are usually a good way to organize economic activity.
- Governments can sometimes improve economic outcomes.

# Principle #5: Trade Can Make Everyone Better Off.

- People gain from their ability to trade with one another.
- Competition results in gains from trading.
- Trade allows people to specialize in what they do best.

# Principle #6: Markets Are Usually a Good Way to Organize Economic Activity.

- A *market economy* is an economy that allocates resources through the decentralized decisions of many firms and households as they interact in markets for goods and services.
  - Households decide what to buy and who to work for.
  - Firms decide who to hire and what to produce.

# Principle #6: Markets Are Usually a Good Way to Organize Economic Activity.

- Adam Smith made the observation that households and firms interacting in markets act as if guided by an “invisible hand.”
  - Because households and firms look at prices when deciding what to buy and sell, they unknowingly take into account the social costs of their actions.
  - As a result, prices guide decision makers to reach outcomes that tend to maximize the welfare of society as a whole.

# Principle #7: Governments Can Sometimes Improve Market Outcomes.

- Markets work only if property rights are enforced.
  - *Property rights* are the ability of an individual to own and exercise control over a scarce resource
- *Market failure* occurs when the market fails to allocate resources efficiently.
- When the market fails (breaks down) government can intervene to promote efficiency and equity.



# Principle #7: Governments Can Sometimes Improve Market Outcomes.

- Market failure may be caused by:
  - an *externality*, which is the impact of one person or firm's actions on the well-being of a bystander.
  - *market power*, which is the ability of a single person or firm to unduly influence market prices.

# HOW THE ECONOMY AS A WHOLE WORKS

- A country's standard of living depends on its ability to produce goods and services.
- Prices rise when the government prints too much money.
- Society faces a short-run trade-off between inflation and unemployment.

## Principle #8: A Country's Standard of Living Depends on Its Ability to Produce Goods and Services.

- Standard of living may be measured in different ways:
  - By comparing personal incomes.
  - By comparing the total market value of a nation's production.

## Principle #8: A Country's Standard of Living Depends on Its Ability to Produce Goods and Services.

- Almost all variations in living standards are explained by differences in countries' productivities.
- *Productivity* is the amount of goods and services produced from each hour of a worker's time.

## Principle #8: A Country's Standard of Living Depends on Its Ability to Produce Goods and Services.

- Standard of living may be measured in different ways:
  - By comparing personal incomes.
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# Principle #9: Prices Rise When the Government Prints Too Much Money.

- *Inflation* is an increase in the overall level of prices in the economy.
- One cause of inflation is the growth in the quantity of money.
- When the government creates large quantities of money, the value of the money falls.

## Principle #10: Society Faces a Short-run Trade-off between Inflation and Unemployment.

- The Phillips Curve illustrates the trade-off between inflation and unemployment:
  - Inflation or Unemployment
    - It's a short-run trade-off!
  - The trade-off plays a key role in the analysis of the *business cycle*—fluctuations in economic activity, such as employment and production

# Thinking Like an Economist

Every field of study has its own terminology

- Mathematics

- integrals ❖ axioms ❖ vector spaces

- Psychology

- ego ❖ id ❖ cognitive dissonance

- Law

- promissory ❖ estoppel ❖ torts ❖ venues

- Economics

- supply ❖ opportunity cost ❖ elasticity ❖ consumer surplus  
❖ demand ❖ comparative advantage ❖ deadweight loss



# Thinking Like an Economist

Economics trains you to. . . .

- Think in terms of alternatives.
- Evaluate the cost of individual and social choices.
- Examine and understand how certain events and issues are related.

# THE ECONOMIST AS A SCIENTIST

The economic way of thinking . . .

- Involves thinking analytically and objectively.
- Makes use of the scientific method.
- Uses abstract models to help explain how a complex, real world operates.
- Develops theories, collects and analyzes data to evaluate the theories.

*Thank you*

**FOR YOUR ATTENTION**