

ECONOMICS I.





NEW

SZÉCHENYI PLAN

ECONOMICS I.

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ELTE Faculty of Social Sciences, Department of Economics

Economics I.

week 1

WHAT IS ECONOMICS?

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The nature and scope of economics

Economics has several schools. BUT this course will only deal with its *main stream*, the neoclassical line of thinking.

week 1

Kőhegyi-Horn-Major

Subject of
economics

Fundamental
notions of
economics

"Economic man"

Allocation of
goods and
resources

Market
interactions

Economics as
social science

Pursuing self
interest

System of
incentives

Positive versus
Normative analysis

The economic
system

Decision-making
agents in the
Economy

Object of
economic
decisions

Economic
activities

Different levels of
analysis

Summary



- 1 Subject of economics
- 2 Fundamental notions of economics
 - o "Economic man"
 - o Allocation of goods and resources
 - o Market interactions
- 3 Economics as social science
 - o Pursuing self interest
 - o System of incentives
 - o Positive versus Normative analysis
- 4 The economic system
 - o Decision-making agents in the Economy
 - o Object of economic decisions
 - o Economic activities
- 5 Different levels of analysis
- 6 Summary

Subject of economics

Fundamental notions of economics

"Economic man"

Allocation of goods and resources

Market interactions

Economics as social science

Pursuing self interest

System of incentives

Positive versus Normative analysis

The economic system

Decision-making agents in the Economy

Object of economic decisions

Economic activities

Different levels of analysis

Summary

What is economics?

- Science
 - Goal:
 - to *explain* things that have already happened.
 - to *forecast* things that have not yet happened.
 - The "What is science" question is very hard to answer. The philosophy of science deals with such questions. And WE DO NOT!

week 1

Kőhegyi-Horn-Major

Subject of economics

Fundamental notions of economics

"Economic man"

Allocation of goods and resources

Market interactions

Economics as social science

Pursuing self interest

System of incentives

Positive versus Normative analysis

The economic system

Decision-making agents in the Economy

Object of economic decisions

Economic activities

Different levels of analysis

Summary



What is economics? (cont.)

- Social science
 - Deals with human behavior and human interaction
 - According to standard classification social sciences are: Sociology, Economics, Anthropology, Political Science, Psychology
 - Middling cases: (Human)ethology, Physiology, (Socio)biology, (Neuro)psychology?
 - In reality, it is very hard to say what social science is, to classify a science based only on its subject.
 - The subject of economics is wealth or welfare, or decisions, or well-being, or income distribution, or ... ?

week 1

Kőhegyi-Horn-Major

Subject of economics

Fundamental notions of economics

"Economic man"

Allocation of goods and resources

Market interactions

Economics as social science

Pursuing self interest

System of incentives

Positive versus Normative analysis

The economic system

Decision-making agents in the Economy

Object of economic decisions

Economic activities

Different levels of analysis

Summary

What is economics? (cont.)

- Its a way of thinking or to put it differently: a METHOD to study the phenomena around us, using only a handful of principles
 - This way we do not bind ourselves, which makes our life easier
 - This could include, for instance, the study of animal behavior
 - ...
 - We follow this approach here!!!

week 1

Kőhegyi-Horn-Major

Subject of economics

Fundamental notions of economics

"Economic man"

Allocation of goods and resources

Market interactions

Economics as social science

Pursuing self interest

System of incentives

Positive versus Normative analysis

The economic system

Decision-making agents in the Economy

Object of economic decisions

Economic activities

Different levels of analysis

Summary



Types of economic questions in a narrower sense

- Should the CEO of a company invest in a new assembly line, and thus increase production capacity, or equip a new laboratory to develop a new product? (How will s/he decide?)
- If someone inherits a larger sum of money, should s/he buy stocks, or buy some property instead? (How will s/he decide?)
- Should a local government build a new school or a new pensioners home? (How will it decide?)

week 1

Kőhegyi-Horn-Major

Subject of economics

Fundamental notions of economics

"Economic man"
Allocation of goods and resources
Market interactions

Economics as social science

Pursuing self interest
System of incentives

Positive versus Normative analysis

The economic system

Decision-making agents in the Economy

Object of economic decisions
Economic activities

Different levels of analysis

Summary



Types of economic questions in a broader sense

- Should I become a doctor, an engineer, a lawyer or an economist? (How will I decide?)
- Who should I marry? (How will I decide?)
- Should I go for a beer or study for the next day economics exam? (How will I decide?)

week 1

Kőhegyi-Horn-Major

Subject of economics

Fundamental notions of economics

"Economic man"

Allocation of goods and resources

Market interactions

Economics as social science

Pursuing self interest

System of incentives

Positive versus Normative analysis

The economic system

Decision-making agents in the Economy

Object of economic decisions

Economic activities

Different levels of analysis

Summary



What were the common things in all of the answers above?

- We have compared the benefits and the costs (in a broader sense).

Note

We will try to follow this approach in general: economics is a social science, which tries to come up with general hypotheses and regularities for the members of the society, unlike e.g. some subdisciplines of anthropology.

- We are talking about *scarce resources*

Note

If there is no scarcity, there is nothing to decide about. A problem becomes an economic problem if SCARCITY holds.

What were the common things in all of the answers above? (cont.)

- Scarcity will make people to decide!

Note

People can decide in many ways: e.g. randomly, submitting ourselves to a higher force, by the "oracle method" ...

- But we assume rational decision making.

Statement

Rationality postulate (for now) intuitively: economic actors will look at costs and benefits and within their set of options will choose the best(s).

- When making a decision, we also have to take different possibilities into account. Among these alternative possibilities we have to look at the one with the highest *opportunity cost*.

What were the common things in all of the answers above? (cont.)

- Every time we neglect some (not necessarily unimportant) factors (which ones?), while emphasizing others: we make MODELS!
- We build models based on our assumptions (e.g. scarcity, rationality, costs-benefit analysis), and draw conclusions using these models.

Note

The economic view of the human being, the HOMO OECONOMICUS (a rational man following his best economic interest) is a simplification as well. This however provides a well functioning tool to explain certain phenomena, but no-one thinks that people are only like this.

Note

A model necessarily contains some unrealistic elements. But how could we use a map that is a perfect copy of reality?

Is the Homo Oeconomicus a useful model? Are people rational?

E.g.: (HGH example 1.3) rational drivers
Two-car accidents with/without airbags
(Virginia, 1993)

	With airbags	Without airbags
Number of cars	30 (50 percent)	30 (50 percent)
Number of "initiators"	22 (73 percent)	8 (27 percent)

Adapted from Peterson et al., p. 262.

E.g.: (HGH example 1.4) Rational malingering

Is the Homo Oeconomicus a useful model? Are people rational? (cont.)

- What are the goals of self-interest?

Assumption

The goals of the Homo Oeconomicus stem from some sort of a taste.

- Individual goals, norms and tastes can differ extensively.
 - culture (eating beef + child protection versus protecting cattle + infanticide (HGH 1.2))
 - subculture (Who would cut the throat of a chicken?)
 - individuals (Who likes spinach?)
- Individual goals, norms and tastes could be unstable.
 - "People change . . . "
 - Advertisements, political campaigns... etc.

Is the Homo Oeconomicus a useful model? Are people rational? (cont.)

Assumption

We assume that the Homo Oeconomicus has a stable preference ordering.

Note

Benevolence, malignancy, altruism, etc. can be a part of the preferences. How?

Note

Rationality \neq Omniscience. But rational decision is possible in situations with no perfect or uncertain information.

week 1

Kőhegyi-Horn-Major

Subject of economics

Fundamental notions of economics

"Economic man"

Allocation of goods and resources

Market interactions

Economics as social science

Pursuing self interest

System of incentives

Positive versus Normative analysis

The economic system

Decision-making agents in the Economy

Object of economic decisions

Economic activities

Different levels of analysis

Summary



Allocation mechanisms

E.g.: (HGH 1.4) Consider the allocation of seats in your classroom. Some seats are more desirable than others. The possible rules of allocation are:

- First come first served (non market).
- The professor assign the seats on any basis (non market).
- The students might elect a committee to assign the seats (non market).
- It can depend on our ability to jostle and trample on others (non market).
- Auction (market)

Subject of
economics

Fundamental
notions of
economics

"Economic man"

**Allocation of
goods and
resources**

Market
interactions

Economics as
social science

Pursuing self
interest

System of
incentives

Positive versus
Normative analysis

The economic
system

Decision-making
agents in the
Economy

Object of
economic
decisions

Economic
activities

Different levels of
analysis

Summary

Allocation mechanisms (cont.)

example: (HGH 1.9) Bidding for faculty offices at the Arizona State University

- Management Department: based on seniority (non market)
- Finance Department: first come first served (non market)
- Statistics Department: randomly (throwing the dice) (non market)
- Economics Department: auction (market)

week 1

Kőhegyi-Horn-Major

Subject of
economics

Fundamental
notions of
economics

"Economic man"

**Allocation of
goods and
resources**

Market
interactions

Economics as
social science

Pursuing self
interest

System of
incentives

Positive versus
Normative analysis

The economic
system

Decision-making
agents in the
Economy

Object of
economic
decisions

Economic
activities

Different levels of
analysis

Summary



Characteristics of market interactions

- Reciprocity and free-will
- The most important information is transmitted by price

Definition

The price is the term on which goods or resources are exchanged.

- The buyers must be willing to pay the market price in order to get the given product, while those can sell the product, who are willing to give it up for the same price.
- From the consumers side: those will get the goods, who pay the most.
- From the sellers side: prices will define production.
- As soon as the price exceeds the costs of production, it becomes profitable to produce more. Not only those on the market will produce more, but other will also be inclined to enter the market.

Characteristics of market interactions (cont.)

Are market transactions really voluntary?

- Can a poor man refuse a job offer, which pays very badly, but at least s/he could buy bread from the money earned. Is it not "wage-slavery"?
- Or take a bandit threatening his victim: "Money or life?" Is it a voluntary exchange?
- How could we differentiate the bandits coercive action with the market exchange?

Statement

The key (for now) intuitively is to clarify the rights and "rules of the game" (legal framework, norms, etc.).

week 1

Kőhegyi-Horn-Major

Subject of
economics

Fundamental
notions of
economics

"Economic man"

Allocation of
goods and
resources

**Market
interactions**

Economics as
social science

Pursuing self
interest

System of
incentives

Positive versus
Normative analysis

The economic
system

Decision-making
agents in the
Economy

Object of
economic
decisions

Economic
activities

Different levels of
analysis

Summary



Intended and unintended consequences of decisions

Decisions have intended and unintended consequences which can affect other decision makers as well.

- If I buy a bread and eat it, then the intended consequence of this decision is that I will not be hungry any more. But an unintended consequence will be that the baker will have money to buy clothes, or that I increase the GDP of the country, I help to boost the economy of the country and thus indirectly I help the poor; however I have only followed my own interest.
- If everyone seeks their own self interest in a hypermarket they will stand in the shortest line. If we know this, then we do not have to search for the shortest line (and walk from one side of the building to the other), because we can trust that lines there will be just as long as they are around us. So, although everyone was following self interest, everyone else profited from this.

week 1

Kőhegyi-Horn-Major

Subject of economics

Fundamental notions of economics

"Economic man"
Allocation of goods and resources
Market interactions

Economics as social science

Pursuing self interest

System of incentives

Positive versus Normative analysis

The economic system

Decision-making agents in the Economy

Object of economic decisions

Economic activities

Different levels of analysis

Summary

Intended and unintended consequences of decisions (cont.)

- We want to buy a sandwich at the lake Balaton at the lake shore. There are many bars and many people. Is it worth to look at the price of the sandwich at each bar to find the cheapest?

week 1

Kőhegyi-Horn-Major

Subject of
economics

Fundamental
notions of
economics

"Economic man"

Allocation of
goods and
resources

Market
interactions

Economics as
social science

**Pursuing self
interest**

System of
incentives

Positive versus
Normative analysis

The economic
system

Decision-making
agents in the
Economy

Object of
economic
decisions

Economic
activities

Different levels of
analysis

Summary



Intended and unintended consequences of decisions (cont.)

What was the common in the arguments above?

- We have used the principle of *methodological individualism*: we trace back social behavior (how lines form in hypermarkets, how sandwich prices are set, etc.) to individual behavior.

Note

This principle is used widely in economics, and also in other social sciences.

- Following self interest produced an advantageous state for the whole society (the principle of "*the invisible hand*")

Market failures

Pursuing self interest is not always beneficial for the society.

- Why do the Austrian leather preparing company pollute the Raba? Who will pay the costs, and who gets the benefits?
- Why do the drivers of the long distance coaches sell tickets under the official price (without a receipt)? What are the consequences of this action?

So for example if

- many people consumes a product not only one
- the actors have more impact on each other than in a simple exchange (external effects)
- the informational structure is special (informational asymmetry)

week 1

Kőhegyi-Horn-Major

Subject of
economics

Fundamental
notions of
economics

"Economic man"
Allocation of
goods and
resources
Market
interactions

Economics as
social science

Pursuing self
interest

**System of
incentives**

Positive versus
Normative analysis

The economic
system

Decision-making
agents in the
Economy

Object of
economic
decisions

Economic
activities

Different levels of
analysis

Summary



Market failures (cont.)

Note

To clarify the rights and "rules of the game" (legal framework, norms, etc.) help in these cases (market failures) as well.

Note

Unfortunately, this can not always be done perfectly, or would cost too much.

Why can economies never be perfectly "bleached"? But economic actors react to *incentives*, which can be modified case-by-case.

- What makes the criminal to steal?
- And the BKV not to waste resources?
- And the governments to do good economic policy?
- And the companies to produce/raise prices?
- And the consumer to buy from credit?

Market failures (cont.)

How can these be modified so that societal costs are lower? And what are the costs of these? What other types of incentives can be created?

- E.g.: King Solomon and the child cut in half.

Note

The MARKET MECHANISM is a sort of incentive system (which needs very few information and is cost-effective).

"IS" versus "OUGHT"

- Not all incentive system allocates goods and resources the same way.
- "Market mechanism is not just, it favors the rich. So this *should not* dominate."
- What does "just" mean?
 - Equal distribution?
 - Distribution by effort?
 - Distribution by needs?
 - etc.
- This is a hard philosophical dilemma, with no consensus around it. We *do not* deal with this question.
- We will follow a positive line of analysis.

week 1

Kőhegyi-Horn-Major

Subject of
economics

Fundamental
notions of
economics

"Economic man"

Allocation of
goods and
resources

Market
interactions

Economics as
social science

Pursuing self
interest

System of
incentives

**Positive versus
Normative analysis**

The economic
system

Decision-making
agents in the
Economy

Object of
economic
decisions

Economic
activities

Different levels of
analysis

Summary



"IS" versus "OUGHT" (cont.)

Does it matter whether we use positive or normative approach when considering the following statements? Do not mix the two approaches!

week 1

Kőhegyi-Horn-Major

Subject of
economics

Fundamental
notions of
economics

"Economic man"

Allocation of
goods and
resources

Market
interactions

Economics as
social science

Pursuing self
interest

System of
incentives

**Positive versus
Normative analysis**

The economic
system

Decision-making
agents in the
Economy

Object of
economic
decisions

Economic
activities

Different levels of
analysis

Summary



Elements of the economic system

- Individuals (consumers): The basic units of the economy. They decide over what and how much to consume and what sort of and how much resource to offer in exchange.
- Business firms (companies, producers): artificial units, consisting of people, who cooperate in order to produce - to transform resources into goods or services demanded by the people. So each company is owned by one or more people, directly or indirectly.
- Governments: artificial units, which we consider to be a sum of the people. Its job is to set the legal framework for the economy and to redistribute (a part of) the income. Governmental decisions are based on political and not market mechanisms.
- Other organizations: trade unions, cartels, clubs, foundations, churches, etc. (these can usually be traced back to one of the above types).

Elements of the economic system

- The objects of economic decisions are commodities or goods. These terms are usually understood to include not only merchandize but also services. Services represent a flow of benefits over a period of time, which might be derived either from physical goods (e.g. shelter provided by a house) or else from human activities (e.g. the entertainment provided by a concert).

week 1

Kőhegyi-Horn-Major

Subject of
economics

Fundamental
notions of
economics

"Economic man"

Allocation of
goods and
resources

Market
interactions

Economics as
social science

Pursuing self
interest

System of
incentives

Positive versus
Normative analysis

The economic
system

Decision-making
agents in the
Economy

**Object of
economic
decisions**

Economic
activities

Different levels of
analysis

Summary



Elements of the economic system

- Economic activities:
 - Consumption:
 - the ultimate economic activity
 - in a sense the explanation for all the others.
 - In their consumption decisions, individuals choose their goods they like the best, given their incomes and the prices they face.
 - Production
 - transform resources into consumable goods.

Note

To be economically rational, production should represent conversion from less desired to a more desired configuration.

- Exchange (trade)
 - Like production it is also a kind of conversion: sacrifice of some goods or resources for others.
 - It does not create or destroy goods, but only reshuffles them among the different decision making agents.

Subject of economics

Fundamental notions of economics

"Economic man"

Allocation of goods and resources

Market interactions

Economics as social science

Pursuing self interest

System of incentives

Positive versus Normative analysis

The economic system

Decision-making agents in the Economy

Object of economic decisions

Economic activities

Different levels of analysis

Summary

Elements of the economic system (cont.)

Note

From a social point of view exchange is distinguished from production by the fact that the totals of commodities are unaffected.

week 1

Kőhegyi-Horn-Major

Subject of
economics

Fundamental
notions of
economics

"Economic man"

Allocation of
goods and
resources

Market
interactions

Economics as
social science

Pursuing self
interest

System of
incentives

Positive versus
Normative analysis

The economic
system

Decision-making
agents in the
Economy

Object of
economic
decisions

**Economic
activities**

Different levels of
analysis

Summary



Elements of the economic system (cont.)

Several model can be used to explain the same phenomenon, usually. We can treat a phenomena as consumption, or production or even as an exchange. It depends on what sort of features of that phenomena we would like to explain. Let us identify the models in the following cases:

- I am going to have lunch at the cafeteria.
- I run a cafeteria.
- Bilking on the bus or buying a ticket.

Note

Depending on what we use to describe a phenomena sets (more-or-less) what we take to be defined inside the model, and what are the exogenous factors.

Microeconomics versus Macroeconomics

- A typical microeconomic problem: if a company lowers its price by 5 percent on a market, how would its profit change?
- A typical macroeconomic problem: if the government can lower unemployment by 5 percent, how would the price level change?
That is
- A *microeconomics* deals with the decisions of well defined economic units, separate markets and their interactions.
- A *macroeconomics* deals with the economy as a whole, with aggregated markets and their interaction.

Note

Is there a fundamental difference between the methodology of micro- and macroeconomics? If we take our principles seriously then there is not! The two has to be in harmony, so microeconomics founds macroeconomics.

week 1

Kőhegyi-Horn-Major

Subject of economics

Fundamental notions of economics

"Economic man"

Allocation of goods and resources

Market interactions

Economics as social science

Pursuing self interest

System of incentives

Positive versus Normative analysis

The economic system

Decision-making agents in the Economy

Object of economic decisions

Economic activities

Different levels of analysis

Summary



Fields and borderlands of economics

Microeconomics

Market theory and marketing,

Business finance

Business theory

Economic regulation and

Economic policy

Macroeconomics

Development economics

Bank finance

Regional economics

Where do data come from for the models? Statistics, econometrics, Accounting, etc.

Note

Microeconomics, due to its special logic and use of notions, can be considered as the language for all economic subjects.

Microeconomics will be used in almost all of the economic subjects you will study.

week 1

Kőhegyi-Horn-Major

Subject of economics

Fundamental notions of economics

"Economic man"

Allocation of goods and resources

Market interactions

Economics as social science

Pursuing self interest

System of incentives

Positive versus Normative analysis

The economic system

Decision-making agents in the Economy

Object of economic decisions

Economic activities

Different levels of analysis

Summary



Summary

- Economics as science and as method
- Principles
 - Cost benefit comparison (based on opportunity cost)
 - Scarcity
 - Rationality postulate
 - Modeling
- Economics as social science
 - Following self interest
 - Allocation mechanisms
 - Market interactions
 - Intended and unintended consequences
 - Market failures
 - System of incentives
 - Positive versus normative approach
- Fundamental modeling framework
 - Homo Oeconomicus
 - Production
 - Consumption
 - Exchange
- Fields of economics

week 1

Kőhegyi-Horn-Major

Subject of
economics

Fundamental
notions of
economics

"Economic man"

Allocation of
goods and
resources

Market
interactions

Economics as
social science

Pursuing self
interest

System of
incentives

Positive versus
Normative analysis

The economic
system

Decision-making
agents in the
Economy

Object of
economic
decisions

Economic
activities

Different levels of
analysis

Summary

