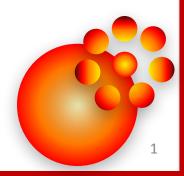
MACROECONOMICS

LECTURE

INTRODUCTION

1

THE SCIENCE OF MACROECONOMICS

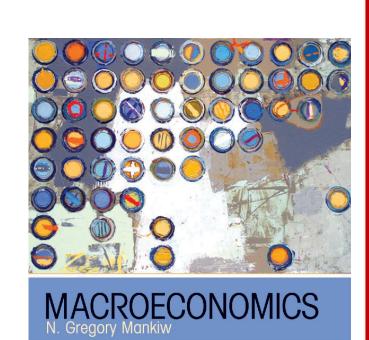


Literature

• N.Gragory Mankiw MACROECONOMICS. 8TH EDITION, 2014. http://www.slideshare.net/RMA03/mankiw-macroeconomics-8th-edition

Additional reading:

- Abel Bernanke. Introduction to macroeconomics. (2008). 6 edition.
- •McConnell Campbell R., Brue Stanley L. (2008) Macroeconomics: Principles, Problems, and Policies. 17th ed. New York: McGraw-Hill/Irwin, 2008. 488 p.
- •Burda, M. and Wyplosz, C. (2009), Macroeconomics (fifth edition)



3. HOW THIS COURSE PROCEEDS

- Part I Introduction 1
 - 1 The Science of Macroeconomics
 - 2 The Data of Macroeconomics

- Part II <u>Classical Theory</u>: The <u>Economy in the Long Run</u>
 - 3 National Income
 - 4 The Monetary System
 - 5 Inflation
 - 6 The Open Economy
 - 7 Unemployment

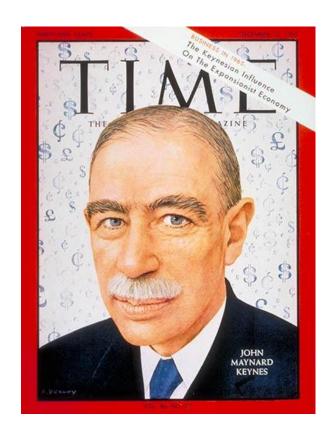
3. HOW THIS COURSE PROCEEDS

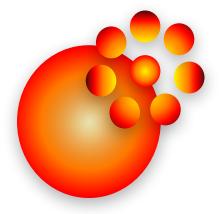
- Part III Growth Theory: The Economy in the Very Long Run
 - 8 Economic Growth I
 - 9 Economic Growth II

- Part IV Business Cycle Theory: The Economy in the Short Run
 - 10 Introduction to Economic Fluctuations
 - 11 Aggregate Demand I
 - 12 Aggregate Demand II
 - 13 The Open Economy Revisited
 - 14 Aggregate Supply and Tradeoff Between Inflation and Unemployment

Outline

- 1. WHAT MACROECONOMISTS STUDY
- 2. HOW ECONOMISTS THINK





1. WHAT MACROECONOMISTS STUDY

Macroeconomics is the part of the field which studies the forces that influence the economy as a whole.

Macroeconomists

- collect data,
- attempt to formulate general theories to explain these data,
- use the data to observe that economies differ across countries.



Their knowledge is useful both







for explaining economic events and for formulating economic policy.







MOST MACROECONOMISTS ARE INTERESTED IN 6 MAJOR GOALS:

- 1. Low unemployment
- 2. Low and stable inflation
- 3. Minimal domestic economic fluctuations
- 4. Minimal international economic fluctuations
 - 5. High rates of economic growth
 - 6. Wise economic policy,

which consists of governmental and non-governmental efforts to

influence the other five goals.

1. The Historical Performance of the U.S. Economy

Three macroeconomic variables are especially important:

1. GDP

- **1. Real GDP** (real gross domestic product)
 - measures the <u>total income of **everyone**</u> in the economy (adjusted for the level of prices),
- 2. real GDP per person
 - measures the income of the **average person** in the economy.
- 2. The inflation rate
 - measures <u>how fast prices are rising.</u>
- 4. The unemployment rate
 - measures the fraction of the labor force that is out of work.
 - Macroeconomists study
 - how these variables are determined,
 - ☐ why they **change** over time, and
 - how they interact with one another.

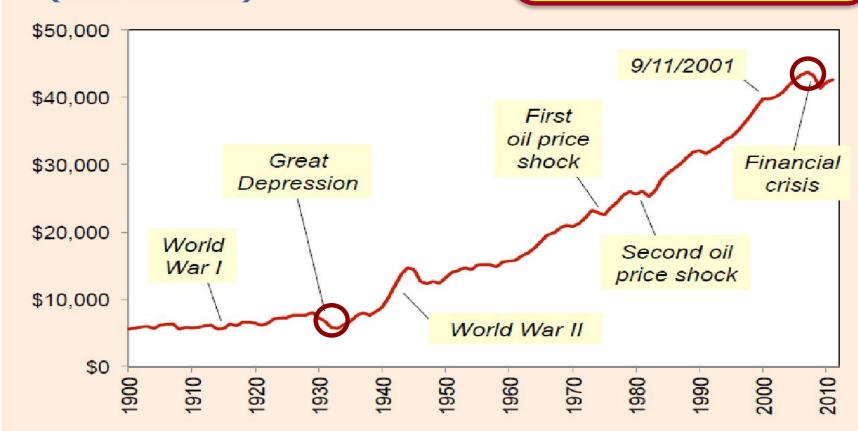
The Historical Performance of the U.S. Economy

Periods during which real GDP falls are called

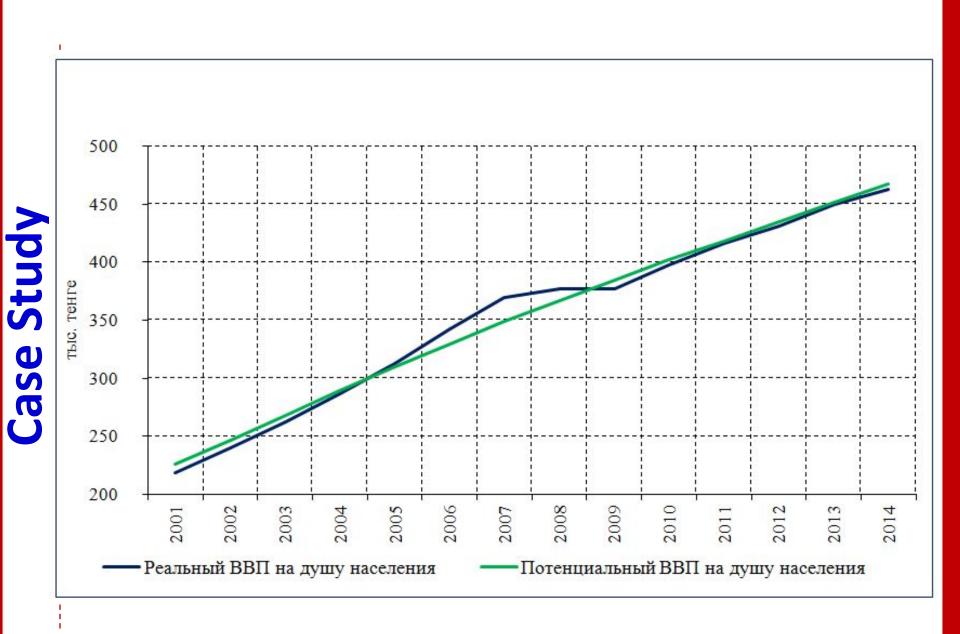
- recessions if they are mild and
- depressions if they are more severe.

U.S. Real GDP per capita (2005 dollars)

- It grows over time.
- The growth is not steady.
- There are some repeated periods of fall.

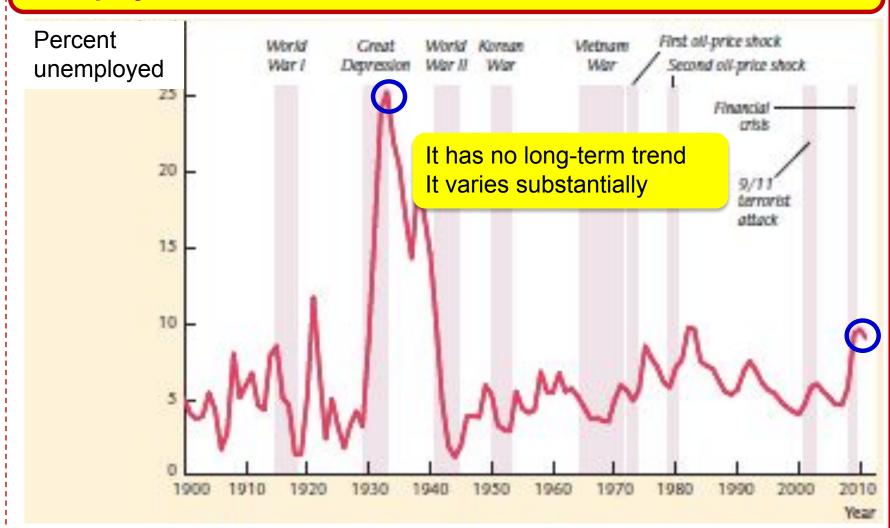


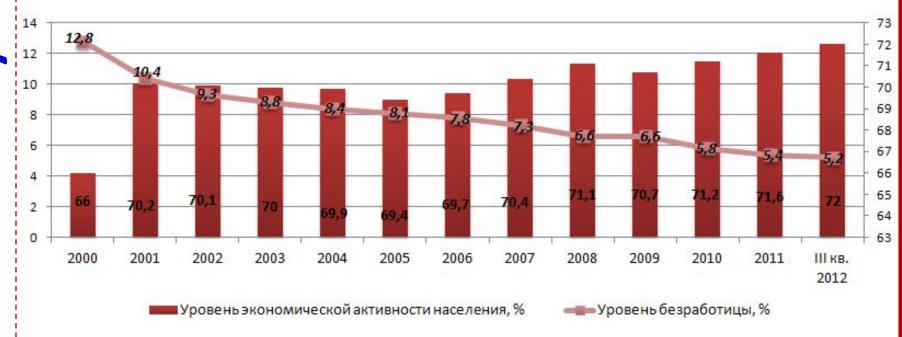
GDP in Kazakhstan



The Historical Performance of the U.S. Economy

Recessions and depressions are associated with unusually high unemployment.

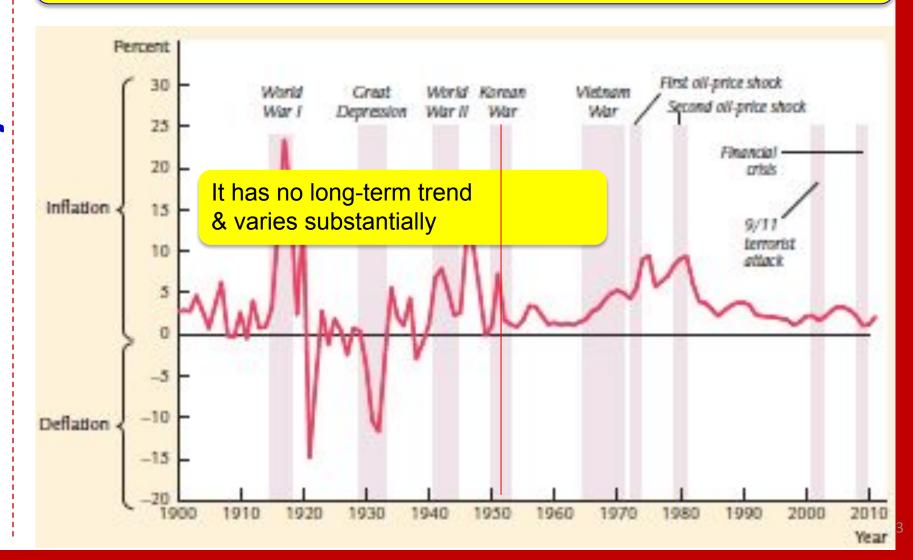


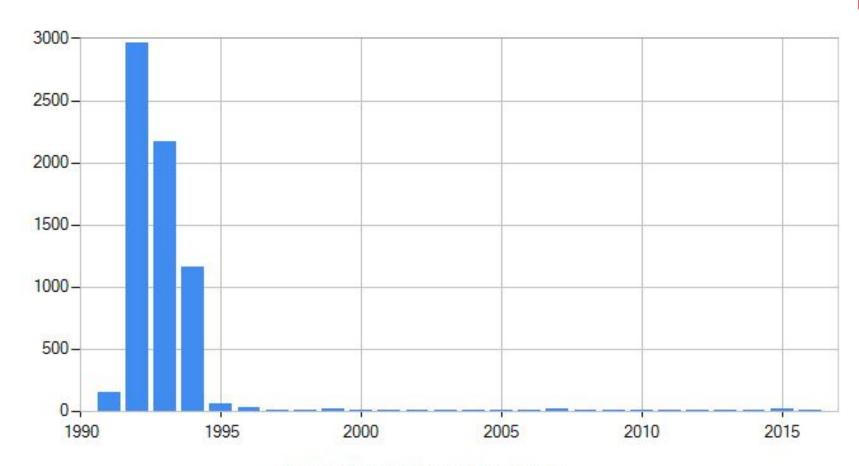


Case Study

The Historical Performance of the U.S. Economy

Periods of falling prices, called **deflation**,
•were almost as common as periods of rising prices.

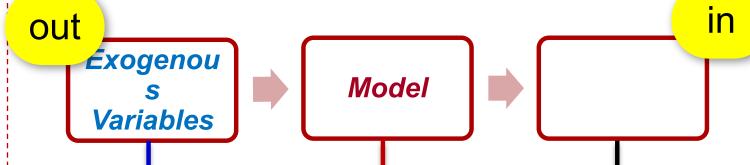




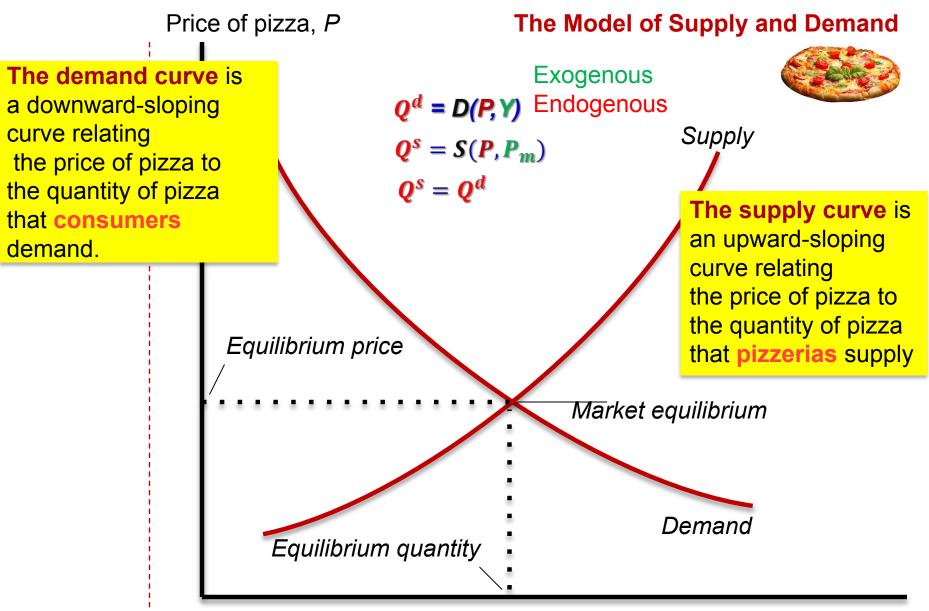
Уровень инфляции по годам, Казахстан, % www.statbureau.org

Macroeconomic **Model Building**

- MACROECONOMICS is a science.
- Macroeconomists use models.
 - Models are <u>simplified theories</u> that show the key relationships among economic variables.



- 1. The xogenous variables are those that come from outside the model.
- 2. The endogenous variables are those that the model explains.
- 3. **The model** shows how changes in the exogenous variables affect the endogenous variables.



Macroeconomic

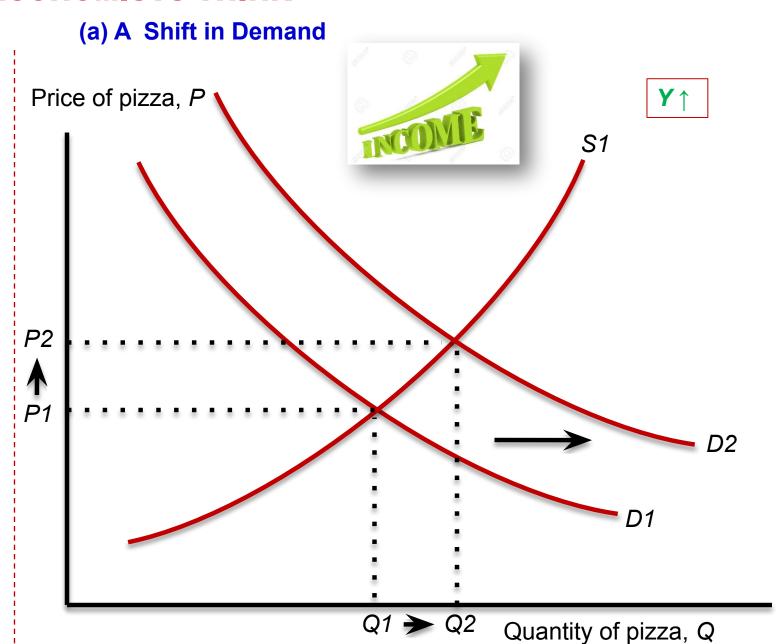
Thinking and

Microeconomic Model

Flexible Versus sticky

The Use of Multiple Models

Theory as Model Building

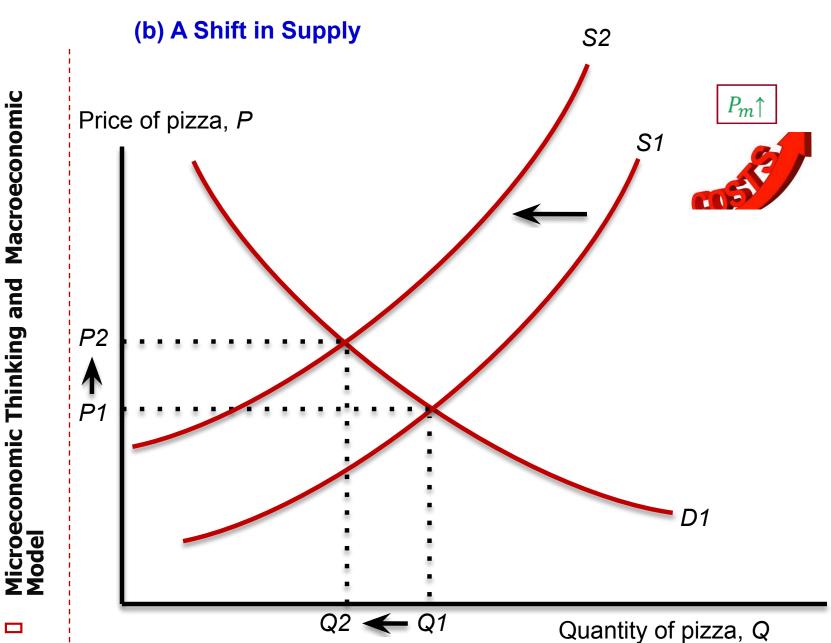


Macroeconomic

Thinking and

The Use of Multiple Models

Theory as Model Building



USING FUNCTIONS

A function is a mathematical concept that shows how <u>one</u> variable depends on a <u>set</u> of other variables.

Ш

Example

the Q of pizza demanded \sim

- on P of pizza and
 - on *Y*.

Functional notation expresses the general idea:

$$Q^d = D(P, Y).$$

 $Q^d = 60 - 10P + 2Y.$
 $D(P, Y) = 60 - 10P + 2Y.$

When we have enough information, it is possible to indicate the **numerical relationship**.



Macroeconomic as Model Building heory

Macroecono mists study many cases of the economy.

- Economic growth
- Inflation
-

Economists use different models to explain different economic phenomena.

- Economists must
 - Make assumptions and
 - Judge whether they are reasonable for studying.

Macroeconomic

heory as Model Building

The assumption that

markets are normally in equilibrium is called Market — CLEARING (M-C).

The continuous M-C is not entirely realistic.

M-C models assume that all W&P

assume that all **w&P** are flexible In the real world some W&P

are sticky.

Price flexibility

is assumption for studying long-run issues

- decade to decade
- the growth in real GDP.

Price stickiness

is assumption for studying short-run issues

 year-to-year fluctuations

Macroeconomic

Microeconomics is the study of

- how households and firms make decisions
 - households choose their purchases
 - ✓ to maximize their level of satisfaction,
 - ✓ which economists call utility
 - firms make production decisions
 - ✓ to maximize their profits.
- 2. how these decision makers interact in the marketplace.

A central principle is

that households and firms **optimize**— *they do the best they* can for themselves

as Model Building heory

- Macroeconomics and microeconomics are inextricably linked.
- Although
 - microeconomic decisions underlie macroeconomic phenomena,
 - macroeconomic models DO NOT NECESSARILY focus on the optimizing behavior of households and firms.

NOBEL MACROECONOMICS

- ☐ The winner of the Nobel Prize in economics is announced every October.
- Many winners have been macroeconomists whose work we study.
- Here are a few of them:

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Milton Friedman (Nobel 1976)
James Tobin (Nobel 1981)
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Robert Solow (Nobel 1987)
Robert Lucas (Nobel 1995)
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George Akerlof (Nobel 2001) Edmund Phelps (Nobel 2006)



SUMMARY

- 1. Macroeconomics is the study of the economy as
 - a whole.
- Economists use models theories that simplify reality in order to reveal how
 - exogenous variables influence
 - endogenous variables.

3. A key feature of a macroeconomic model is whether it assumes that prices are

THANKS!

