

Look for the answers to these questions:

- What kinds of questions does economics address?
- What are the principles of how people make decisions?
- What are the principles of how people interact?
- What are the principles of how the economy as a whole works?

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Ten Principles of Economics

- Resources are scarce
- Scarcity: the limited nature of society's resources
 - -Society has limited resources
 - Cannot produce all the goods and services people wish to have
- Economics
 - The study of how society manages its scarce resources

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Ten Principles of Economics

- · Economists study:
 - How people decide what to buy,
 how much to work, save, and spend
 - How firms decide how much to produce, how many workers to hire
 - How society decides how to divide its resources between national defense, consumer goods, protecting the environment, and other needs

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What Economics is Really About?

- ▶ Traditionally: Economics is the study of how society produces and distributes goods to satisfy the wants and needs of their members. For me,
- Economics is the study of institutions and human behavior (reactions to institutions)
 - ▶ I.e.「上有政策,下有對策」
 - ▶ (Classical) market mechanism is just one example!
 - ▶ Other mechanisms: Auctions, match-making
 - Other institutions: governments, congress, national health insurance, families, social norms

018/9/

10 Principles of Economic

Joseph Tao-vi Wang

People Respond to Incentives!

- Central Planning in Soviet Union:
 - "...if the plan merely calls for tonnages of output,
 - there is every incentive to skimp on design or finish or quality, in order to concentrate on sheer weight."
 - The Economic Problem (1970), M Robert L. Heilbroner
- Interesting cartoon in Krokodil:
- ▶ (Russian satirical magazine)

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10 Principles of Economics





How People Make Decisions

Principle 1: People face trade-offs

Principle 2: The cost of something is what you give up to get it

Principle 3: Rational people think at the margin

Principle 4: People respond to incentives

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Principle 1: People Face Trade-offs

- To get something that we like, we have to give up something else that we also like
 - -Going to a party the night before an exam
 - · Less time for studying
 - -Having more money to buy stuff
 - Working longer hours, less time for leisure
 - -Protecting the environment
 - Resources could be used to produce consumer goods

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Principle 1: People Face Trade-offs

- Society faces trade-offs:
 - The more it spends on national defense (guns) to protect its shores
 - The less it can spend on consumer goods (butter) to raise the standard of living at home
 - Pollution regulations: cleaner environment and improved health
 - But at the cost of reducing the incomes of the firms' owners, workers, and customers

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Principle 1: People Face Trade-offs

- Efficiency: society gets the most from its scarce resources
- Equality: prosperity is distributed uniformly among society's members
- Tradeoff:
 - To achieve greater equality, could redistribute income from wealthy to poor
 - But this reduces incentive to work and produce, shrinks the size of economic "pie"

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

- · Making decisions:
 - -Compare costs w/ benefits of alternatives
 - Need to include opportunity costs
- Opportunity cost
 - Whatever must be given up to obtain some item

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

- The opportunity cost of:
 - -Going to college for a year
 - · Tuition, books, and fees
 - PLUS foregone wages
 - -Going to the movies
 - The price of the movie ticket
 - PLUS the value of the time you spend in the theater

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Principle 3: Rational People Think at the Margin

- Rational people
 - -Systematically and purposefully do the best they can to achieve their objectives
 - Given the available opportunities
 - Make decisions by evaluating costs and benefits of marginal changes
 - Small incremental adjustments to a plan of action



Principle 3: Rational People Think at the Margin

- Examples:
 - Cell phone users with unlimited minutes (the minutes are free at the margin)
 - Are often prone to making long/frivolous calls
 - Marginal benefit of the call > 0
 - A manager considers whether to increase output
 - Compares the cost of the needed labor and materials to the extra revenue

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Principle 4: People Respond to Incentives

- Incentive
 - -Something that induces a person to act
- Examples:
 - -When gas prices rise, consumers buy more hybrid cars and fewer gas guzzling
 - When cigarette taxes increase, teen smoking falls

Active Learning 1

Applying the principles

- You are selling your old ASUS laptop.
 - You have already spent NT\$10,000 on repairs.
- At the last minute, the Blu-ray drive dies.
 - Can pay NT\$6,000 to replace it, or sell it "as is."

In each of the following scenarios, should you have the Blu-ray drive repaired? Explain.

- A. Shopee value (what you could get for the laptop) is NT\$25,000 if Blu-ray drive works, NT\$17,000 if it doesn't.
- B. Shopee value is NT\$20,000 if Blu-ray drive works, NT\$15,000 if it doesn't.

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Active Learning 1

Answers

Cost of fixing the Blu-ray drive = NT\$6,000

A. Shopee value is NT\$25,000 if Blu-ray drive works, NT\$17,000 if it doesn't

– Benefit of fixing Blu-ray drive = NT\$8,000

(= NT\$25,000 - NT\$17,000)

- Get the Blu-ray drive fixed

B. Shopee value is NT\$20,000 if Blu-ray drive works, NT\$15,000 if it doesn't

– Benefit of fixing Blu-ray drive = NT\$5,000

(= NT\$20,000 - NT\$15,000)

- Do not pay NT\$6,000 to fix it

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How People Interact

Principle 5: Trade can make everyone

better off

Principle 6: Markets are usually a good way

to organize economic activity

Principle 7: Governments can sometimes improve market outcomes

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Principle 5: Trade Can Make Everyone Better Off

- People benefit from trade:
 - People can buy a greater variety of goods and services at lower cost
- Countries benefit from trade and specialization
 - Get a better price abroad for goods they produce
 - Buy other goods more cheaply from abroad than could be produced at home

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

- Market
 - A group of buyers and sellers (need not be in a single location)
- "Organize economic activity" means determining
 - –What goods and services to produce
 - -How much of each to produce
 - –Who produced and consumed these

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

- A market economy allocates resources
 - Decentralized decisions of many firms and households – as they interact in markets
- Famous insight by Adam Smith in The Wealth of Nations (1776):
 - Each of these households and firms acts as if "led by an invisible hand" to promote general economic well-being

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

- Prices:
 - Determined: interaction of buyers and sellers
 - -Reflect the good's value to buyers
 - -Reflect the cost of producing the good
- Invisible hand:
 - Prices guide self-interested households and firms to make decisions that maximize society's economic well-being

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Principle 7: Governments Can Sometimes
Improve Market Outcomes

- Government enforce property rights
 - Enforce rules and maintain institutions that are key to a market economy
 - People are less inclined to work, produce, invest, or purchase if large risk of their property being stolen

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Principle 7: Governments Can Sometimes
Improve Market Outcomes

- Government promote efficiency
 - Avoid market failures: market left on its own fails to allocate resources efficiently
 - Externality source of market failure
 - Production or consumption of a good affects bystanders (e.g. pollution)
 - -Market power source of market failure
 - A single buyer or seller has substantial influence on market price (e.g. monopoly)

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Principle 7: Governments Can Sometimes **Improve Market Outcomes**

- Government promote equality
 - -Avoid disparities in economic well-being
 - -Use tax or welfare policies to change how the economic "pie" is divided

Active Learning 2

Discussion Question

In each of the following situations, what is the government's role?

Does the government's intervention improve the outcome?

- a. Public schools for K-12
- b. National health insurance
- c. Patent laws, which allow drug companies to charge high prices for life-saving drugs

How the economy as a whole works

Principle 8: A country's standard of living depends on its ability to produce goods and services

Principle 9: Prices rise when the government prints too much money

Principle 10: Society faces a short-run tradeoff between inflation and unemployment

How the economy as a whole works

- ▶ These are Principles of Macroeconomics
 - For the Spring semester, not for now
- ▶ Some are still controversial and under debate
- Blah blah blah...
 - ▶ See Yoram's Translation of the Ten Principles

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

- · Huge variation in living standards
 - -Across countries and over time
 - -Average income in rich countries
 - Is more than ten times average income in poor countries
 - The U.S. standard of living today
 - Is about eight times larger than 100 years ago
 - What about Taiwan?

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

- Productivity: most important determinant of living standards
 - -Quantity of goods and services produced from each unit of labor input
 - -Depends on the equipment, skills, and technology available to workers
 - Other factors (e.g., labor unions, competition from abroad) have far less impact on living standards

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Principle 9: Prices Rise When the Government Prints Too Much Money

- Inflation
 - An increase in the overall level of prices in the economy
- In the long run
 - Inflation is almost always caused by excessive growth in the quantity of money, which causes the value of money to fall
 - The faster the government creates money, the greater the inflation rate

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Principle 10: Society Faces a Short-run Tradeoff between Inflation and Unemployment

- Short-run trade-off between unemployment and inflation
 - Over a period of a year or two, many economic policies push inflation and unemployment in opposite directions
 - Other factors can make this trade-off more or less favorable, but the trade-off is always present

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Summary

- Fundamental lessons about individual decision making:
 - People face trade-offs among alternative goals
 - The cost of any action is measured in terms of forgone opportunities
 - Rational people make decisions by comparing marginal costs and marginal benefits
 - People change their behavior in response to the incentives they face

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Summary

- Fundamental lessons about interactions among people:
 - Trade and interdependence can be mutually beneficial
 - Markets are usually a good way of coordinating economic activity among people
 - The government can potentially improve market outcomes by remedying a market failure or by promoting greater economic equality

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Summary

- Fundamental lessons about the economy as a whole:
 - Productivity is the ultimate source of living standards
 - Growth in the quantity of money is the ultimate source of inflation
 - Society faces a short-run trade-off between inflation and unemployment

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Chapter 1: Ten Principles of Economics

- Seven in Micro-economics
 - ▶ Three in Macro-economics: Blah blah blah
- ▶ Homework:
 - Watch Ten Principles of Economics: A Translation and read its transcript online
 - Mankiw, Chap.1, Problem 1, 3, 8, 9
 - ▶ Past Midterm Questions TBA

2018/9/12

10 Principles of Economics

Joseph Tao-vi Wang

FYI: How to Read the Textbook

- 1. Read before class.
 - ▶ You'll get more out of class.
- 2. Summarize, don't highlight.
 - ▶ Highlighting is a passive activity
 - Won't improve your comprehension
 - ▶ Summarize each section in your own words
 - Then, compare it to end-of-chapter summary

2018/9/13

10 Principles of Economics

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FYI: How to Read the Textbook

- 3. Read before class. Test yourself!
- Try Quick Quiz before moving on
- 4. Practice, practice, practice.
 - ▶ Work through end-of-chapter review questions & homework problems.
 - The more you use your new knowledge, the more solid it will become.

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10 Principles of Economic

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FYI: How to Read the Textbook

- 5. Go online.
- ► The book comes with excellent web resources: http://homepage.ntu.edu.tw/~josephw/principles_18F.htm http://academic.cengage.com/economics/mankiw
- 6. Study in groups
 - Get together with a few classmates to
 - review each chapter, quiz each other, and
 - ▶ help each other understand the material.

2018/9/1

10 Principles of Economics

Joseph Tao-yi Wang

FYI: How to Read the Textbook

- 7. Teach someone.
 - ▶ The best way to learn something is to teach it
- 8. Don't skip the real world examples.
 - ▶ Read Case Studies, In The News and Ask the Experts in each chapter.
 - As you read the online news, see if you can find connections with what you've learned.

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10 Principles of Economics

Joseph Tao-vi Wang

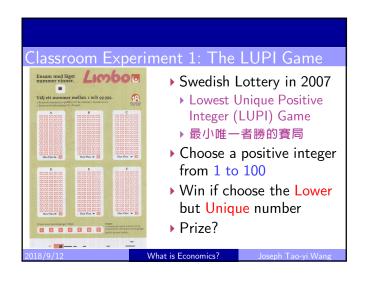
What Economics is Really About?

- Economics is a study of institutions and human behavior (reactions to institutions)
 - ▶ 「上有政策,下有對策」
- ▶ (Classical) market mechanism is one example
- Other mechanisms: auctions, matching
- ▶ Other institutions: Governments, congress,
 - Welfare systems, national health insurance,
 - ▶ Families, social norms

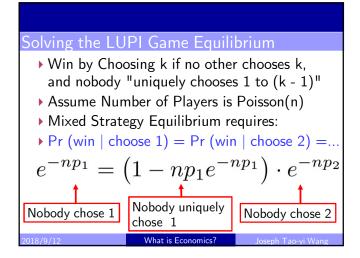
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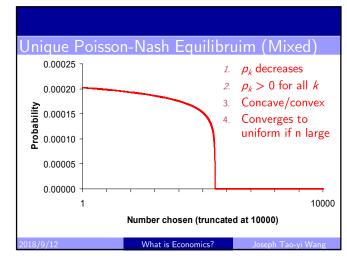
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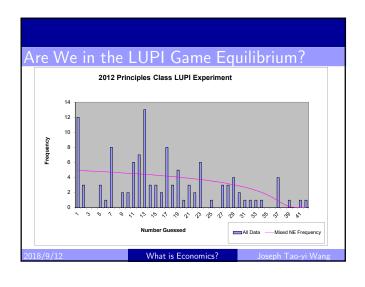
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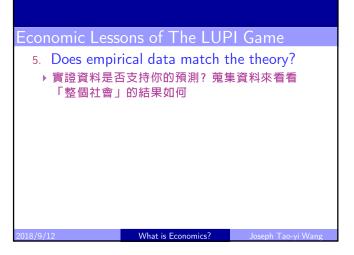


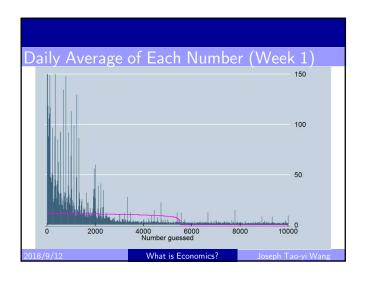


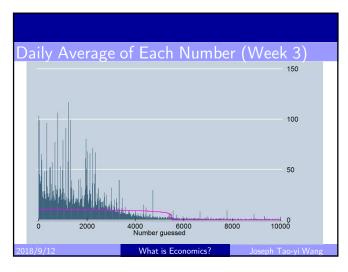


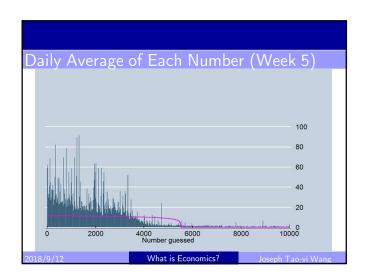


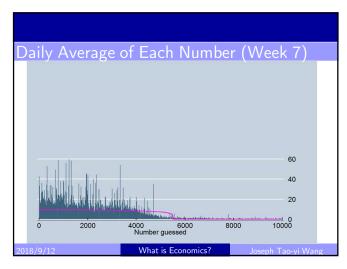


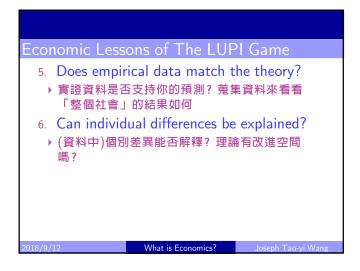




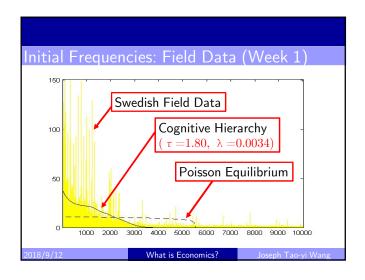


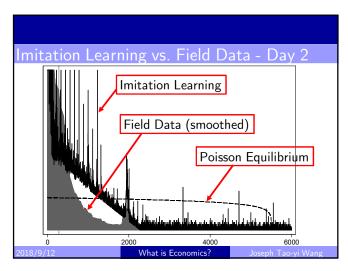


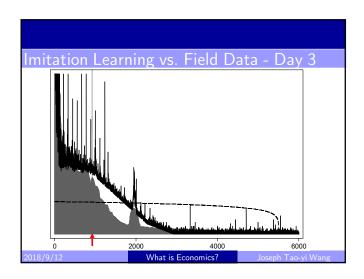


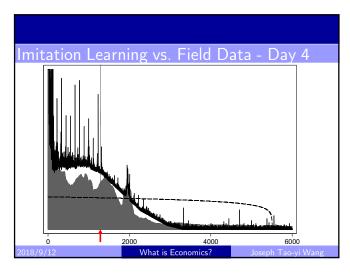


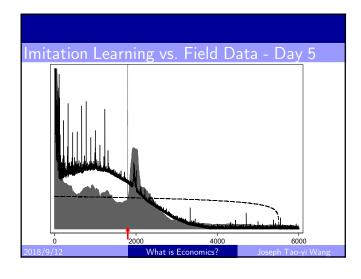


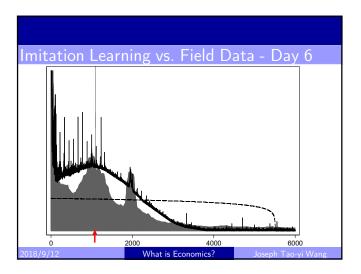


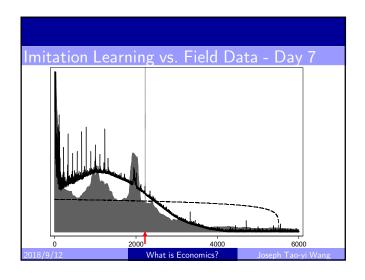


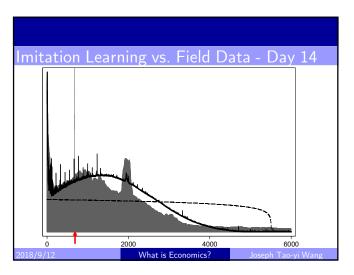


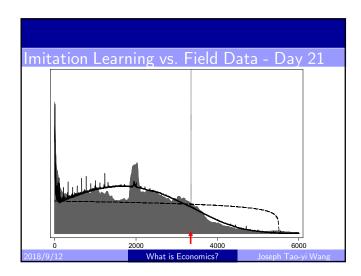


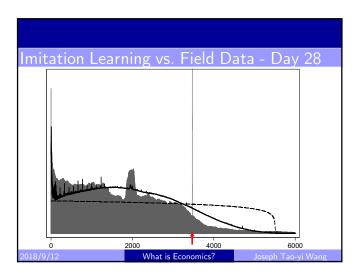


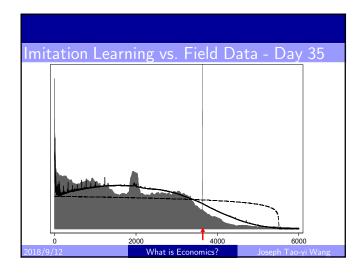


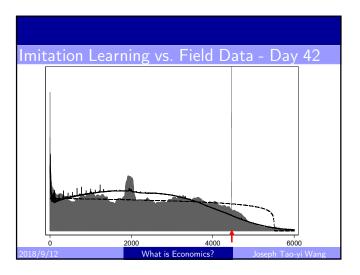


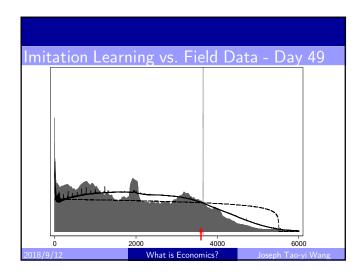












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