

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

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- Economics
 - The study of how society manages its scarce resources

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

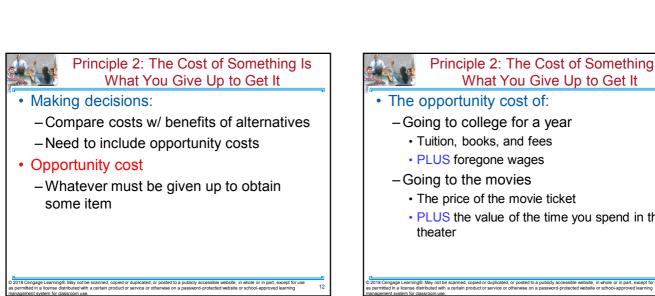
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environment, and other needs

What Economics is **Really** About? People Respond to Incentives Central Planning in Soviet Traditionally: Economics is the study of how society produces and distributes goods to satisfy Union: the wants and needs of their members. For me. • "...if the plan merely calls for Economics is the study of institutions and tonnages of output, there is every incentive to skimp on human behavior (reactions to institutions) design or finish or quality, in order ▶ I.e.「上有政策,下有對策」 to concentrate on sheer weight. (Classical) market mechanism is just one example! ▶ The Economic Problem (1970), Other mechanisms: Auctions, match-making Robert L. Heilbroner • Other institutions: governments, congress, national Interesting cartoon in Krokodil: health insurance, families, social norms (Russian satirical magazine) 10 Principles of Eco

How People Make Decisions	Principle 1: People Face Trade-offs
 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 	 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
E Consistent of a publicly accessible website, in whole or in part, except for use so particle accessible website, in whole or in part, except for use as permitted in a license distributed with a certain product or service or otherwise on a password-protected website or school-approved learning 8 management system for classroom use.	E Constant of Constant Learning®. May not be scanned, copied or duplicated, or posted to a publicly accessible website, in whole or in part, except for use as permitted in a license distributed with a certain product or service or otherwise on a password-protected website or school-approved learning management system for dassroom use.





Society faces trade-offs:

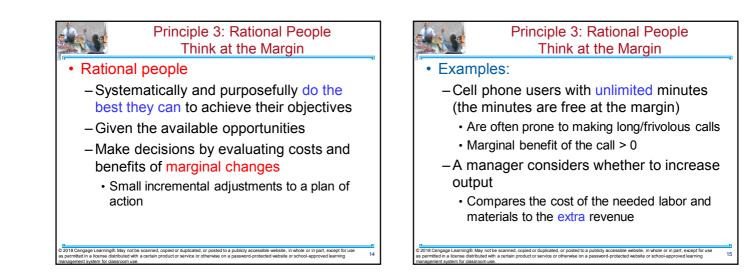
and improved health

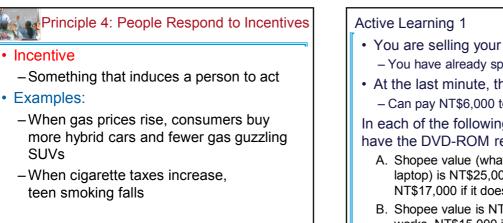
(guns) to protect its shores

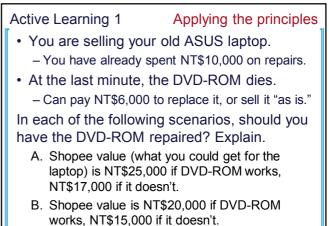
Principle 2: The Cost of Something Is What You Give Up to Get It

• The opportunity cost of:

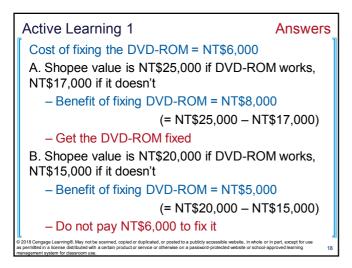
- -Going to college for a year
 - · Tuition, books, and fees
 - PLUS foregone wages
- -Going to the movies
 - The price of the movie ticket
 - PLUS the value of the time you spend in the theater







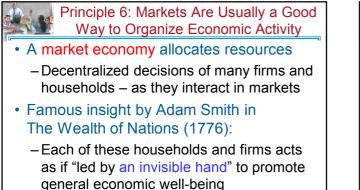
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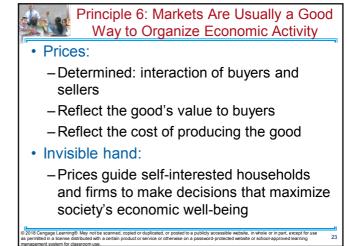
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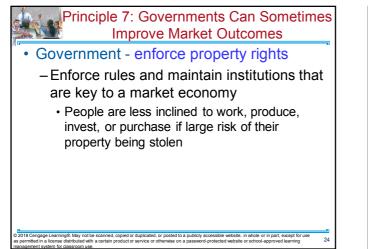
	How People Interact
Principle 5:	Trade can make everyone better off
Principle 6:	Markets are usually a good way to organize economic activity
Principle 7:	Governments can sometimes improve market outcomes
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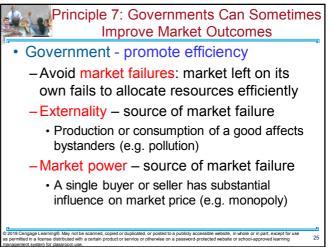


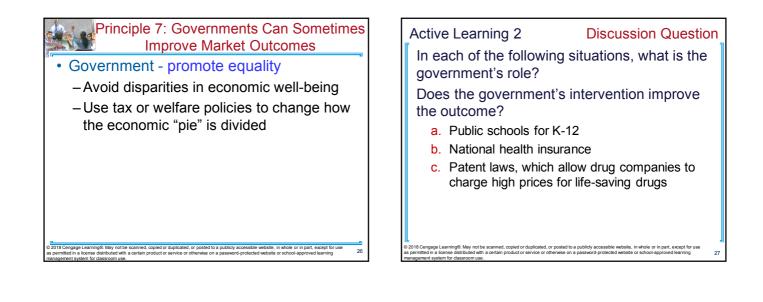


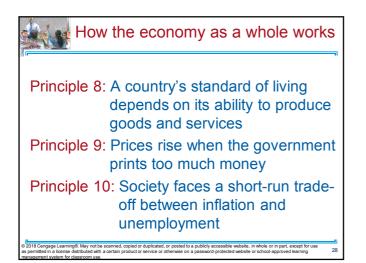
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low the economy as a whole works

- 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

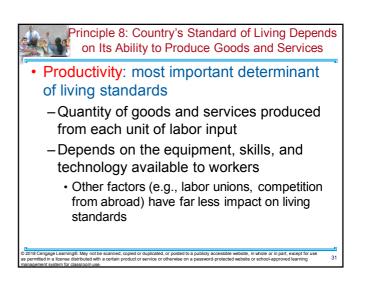
 Principle 8: Country's Standard of Living Depends on Its Ability to Produce Goods and Services
 Huge variation in living standards

 Across countries and over time

- -Average income in rich countries
 - Is more than ten times average income in poor countries

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- The U.S. standard of living today
- Is about eight times larger than 100 years ago
 What about Taiwan?

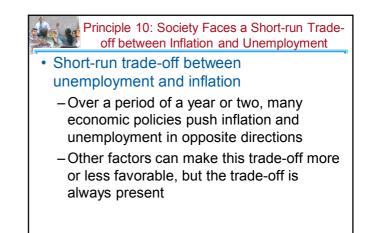




Principle 9: Prices Rise When the Government Prints Too Much Money

- 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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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

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 Society faces a short-run trade-off between inflation and unemployment

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

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 that won't improve your comprehension.
- Instead, summarize each section in your own words. Then, compare your summary to the one at end of the chapter.

10 Principles of Econom

FYI: How to Read the Textbook

- 3. Read before class. Test yourself.
- Try the Quick Quiz that follows each section before moving on to the next.
- 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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YI: How to Read the Textbook

- 5. Go online.
- The book comes with excellent web resources, including practice quizzes, tools to strengthen your graphing skills, helpful video clips, and other resources to help you learn:

http://homepage.ntu.edu.tw/~josephw/principles_17F.htm http://academic.cengage.com/economics/mankiw_

5. Study in groups.

 Get together with a few classmates to review each chapter, quiz each other, and help each other understand the material.
 20 Principles of Economics

FYI: How to Read the Textbook

- 7. Teach someone.
 - The best way to learn something is to teach it to someone else, such as a study partner.
- 8. Don't skip the real world examples.
- ▶ Read Case Studies, In The News and Ask the Experts in each chapter. They will help you see how the new terms, concepts, models, and graphs apply to the real world.
- As you read the online news, see if you can find connections with what you've learned.

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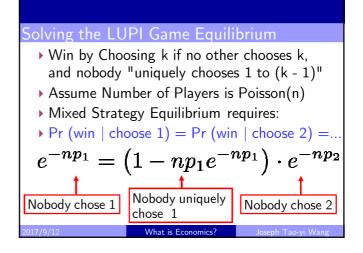
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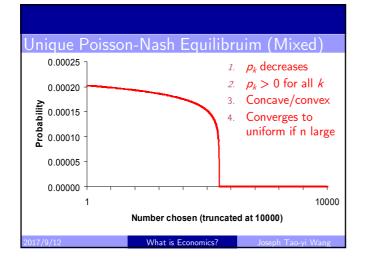
assroom Experiment 1: The LUPI Game Swedish Lottery in 2007 Lowest Unique Positive Integer (LUPI) Game Lowest Unique Positive Integer (LUPI) Game Lowest Game

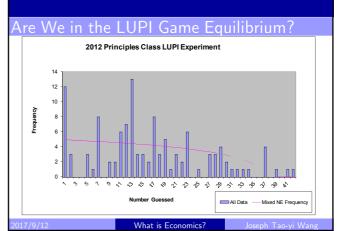
- Choose a positive integer from 1 to 100
- Win if choose the Lower but Unique number
- Prize?

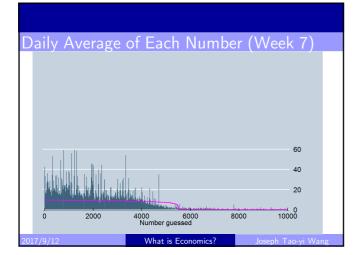
Economic Lessons of The LUPI Game 1. A Set of Rules (= Institution)

- ▶ 一套遊戲規則:可以是明文規定或不成文的潛規則
- 2. Individuals Optimize
- ▶ 個人決策謀求最佳化,因為人們對誘因有反應!
- 3. You Need to React to Others Optimizing ▶ 其他人也在最佳化,所以你要因應。即使多數人循 規蹈矩,制度設計者仍須考慮有人惡搞會怎樣?
- 4. What should the aggregate data look like?
- ▶ 整體結果長怎樣? 理論的預測為何?









Economic Lessons of The LUPI Game		
 5. Does empirical data match the theory? ▶ 實證資料是否支持你的預測? 蒐集資料來看看「整個社會」的結果如何 		
 6. Can individual differences be explained? ▶ (資料中)個別差異能否解釋?理論有改進空間嗎? 		
 7. How can the institution be improved? ▶ 工程師問:制度(遊戲規則)有沒有可以改進的地方? 		
 8. Where did this institution come from? ▶ 這套制度是哪裡來的?現況的邏輯是什麼? 		
2017/9/12 What is Economics? Joseph Tao-yi Wang		