



# The economic problem

- **\*** Given *scarcity* all societies must answer *3 basic questions*:
  - 1. What gets produced?
  - 2. How is it produced?
  - 3. Who gets what is produced?

### \* Societies *adopt economic systems* to answer:

- Command economies: a central authority directly decides for the answers maximizing social utility
- ► Laissez-faire economies: individuals *pursue their own self-interests* without any central direction or regulation
- Mixed systems: individuals pursue their own self-interests but some sort of government intervenes to provide public goods, to redistribute income and to stabilize the macro economy

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# Question:

 Is there a one-and-only characteristic that determines what has value and what not?

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> The economic problem





# The Law of Demand > Demand \* Demand measures the *willingness to pay* for a good or service \* Price and quantity are *inversely related* this negative relationship is known as the law of demand \* An *increase in the price of the good* causes: ► The *budget line* to rotate inwards ▶ The consumer has to find a *new optimal choice* on the new budget line > There, a *lower quantity* of the good will be *demanded*. \* The law of demand occurs due to *two reasons*: ▶ The *income effect*: as the price of a good increases, consumers *cannot afford* to buy the same quantity The *substitution effect*: as the price of a good increases, consumers tend to substitute it with similar goods whose price has not increased. Lecture 2

# The demand equation

\* The relationship between price and quantity can be conveniently described by a demand equation, for example

### q = 14 - 2p

> Demand

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if the item was free, I would get 14 units - then for every dollar increase in price, I would get 2 units less

- **\*** The easiest way to **estimate** a demand relationship is to **survey** consumers: "How much would you buy if price was \$5? What if it was \$6, \$7, etc."
- \* Consumers, *consider* the given price, the prices of competing goods, their income and their preferences, calculate their optimal choice and come up with a quantity

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# Demand and changes in price Price and quantity demanded are variables (that is, numbers or values). Demand is a relationship (that is, a correspondence between values). A change in the price of a good never changes the demand of the good When price increases from \$10 to \$15: Demand changes only when something causes the consumer to buy different quantities at the same prices: The inputs of the demand table have changed The demand curve has shifted to another position. The demand equation has changed











# > Elasticity The price elasticity of demand \* A demand curve *shows* how quantity demanded responds to changes in price along a wide range of prices \* However, usually we **only have** information in the vicinity of the **current** price \* A way to measure the response of quantity to price at a specific price point is the elasticity of demand ( $\varepsilon_d$ ) $\varepsilon_d$ measures the percentage change in quantity demanded of a good resulting from a percentage change in the good's price $\varepsilon_d = \frac{\%\Delta Q}{\%\Delta p}$ or $\varepsilon_d = \frac{\Delta Q/Q}{\Delta p/p}$ \* The price elasticity of demand will always be negative 32

Lecture 2

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	Goods	Prico Elasticity		
	Olive Oil	-1 92		
	Peanut Butter	-1.73		
	Ketchup	-1.36		
	Wine	-1.00		
	Laundry Detergent	-0.81		
	Shampoo	-0.79		
	Potato chips	-0.45	1	
	Cigarettes	-0.40	1	
★ We knew that <b>sm</b>	<i>oking</i> is addictive and t	hat <b>olive oil</b> is no	t essential	















# WARNING! •

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