WORK, WELLBEING, & SCARCITY I

PMAP 8141: Economy, Society, and Public Policy September 19, 2019

Fill out your reading report
on iCollege!

PLAN FOR TODAY

Incentives

XYZ Airlines

Preferences and tradeoffs

INCENTIVES

ELASTICITY AND RESPONSIVENESS

$$\varepsilon = -\frac{\% \text{ change in demand}}{\% \text{ change in price}} \ \ \varepsilon = -\frac{\Delta Q}{\Delta P} \times \frac{P}{Q}$$

% change in demand that follows a 1% change in price

$$\begin{array}{c} \mathbf{Q} \uparrow \ \mathbf{P} \downarrow \\ \quad \text{or} \quad \\ \mathbf{Q} \downarrow \mathbf{P} \uparrow \end{array}$$

 ϵ = 2: "If price increases by 10%, quantity decreases by 20%"

 ϵ = 0.5: "If price increases by 10%, quantity decreases by 5%"

$\epsilon = \infty = Perfectly elastic$

Any change in price moves quantity to 0

Identical goods
Two vending machines

 $\epsilon > 1 = Elastic$

Changes in price change the quantity a lot

Goods with substitutes

Diet Coke

 ϵ = 1 = Unit elastic

Changes in price change the quantity the same

 ϵ < 1 = Inelastic

Changes in price change the quantity a little

Goods with few substitutes *AIDS medicine*

 ϵ = 0 = Perfectly inelastic

Changes in price do nothing to the quantity

Survival goods
Water in the desert

ε, TAXES, & PREFERENCES

Taxing things changes their prices

Changing prices changes quantities demanded

Taxing elastic goods will make quantities go down a lot and decrease tax revenues

Taxing inelastic goods will make quantities go down slightly and not hurt revenues

Category			Price per 100 g (\$)	Typical spending per week (\$)	Price elasticity of demand		
1	Fruit and vegetables	660	0.38	2.00	1.128		
2	Fruit and vegetables	140	0.36	3.44	0.830		
15	Grain, pasta, bread	1,540	0.38	2.96	0.854		
17	Grain, pasta, bread	960	0.53	2.64	0.292		
28	Snacks, candy	433	1.13	4.88	0.270		
29	Snacks, candy	1,727	0.68	7.60	0.295		
30	Milk	2,052	0.09	2.32	1.1793		
31	Milk	874	0.15	1.44	1.972		

If P↑ by 10%, Q↓...

8.3%

2.7%

19.72%

GENERAL TAX GUIDANCE

Tax inelastic products unless you're tying to change consumption

Soda? Cigarettes? Alcohol? Property?

Those who can afford to avoid taxes will try to avoid them

WHY DO PEOPLE DO WHAT THEY DO?

People get utility from doing stuff

Extrinsic rewards Intrinsic rewards

These can get distorted and crowded out!

WHY CARE AS AN MPA/MPP?

Good policy uses incentives to channel behavior toward some desired outcome. Bad policy either ignores incentives or fails to anticipate how rational individuals might change their behavior to avoid being penalized.

Naked Economics, p. 39

PERVERSE INCENTIVES







IMPORTANCE OF INCENTIVES

People respond to what you signal

You get what you measure

Daycares and late pickups

Blood donors

Taxes Favors Thanksgiving

Playgroups and daycares MLMs

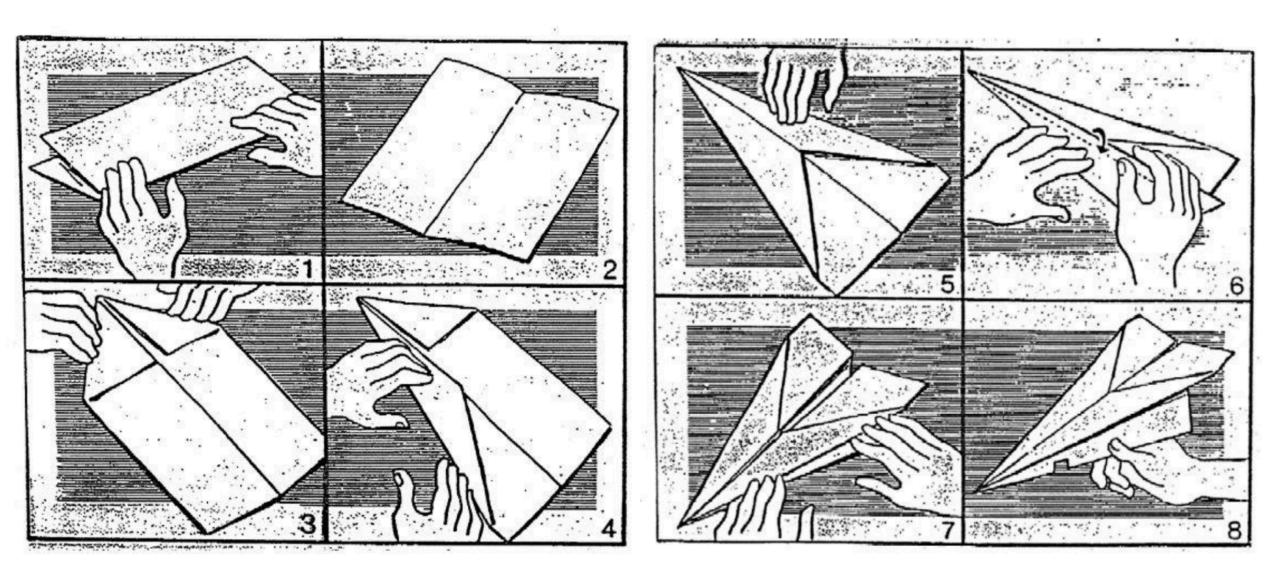
NED and democracy promotion

Extrinsic rewards can crowd out intrinsic motivations

Don't violate important social relationships by reducing services to a market transaction

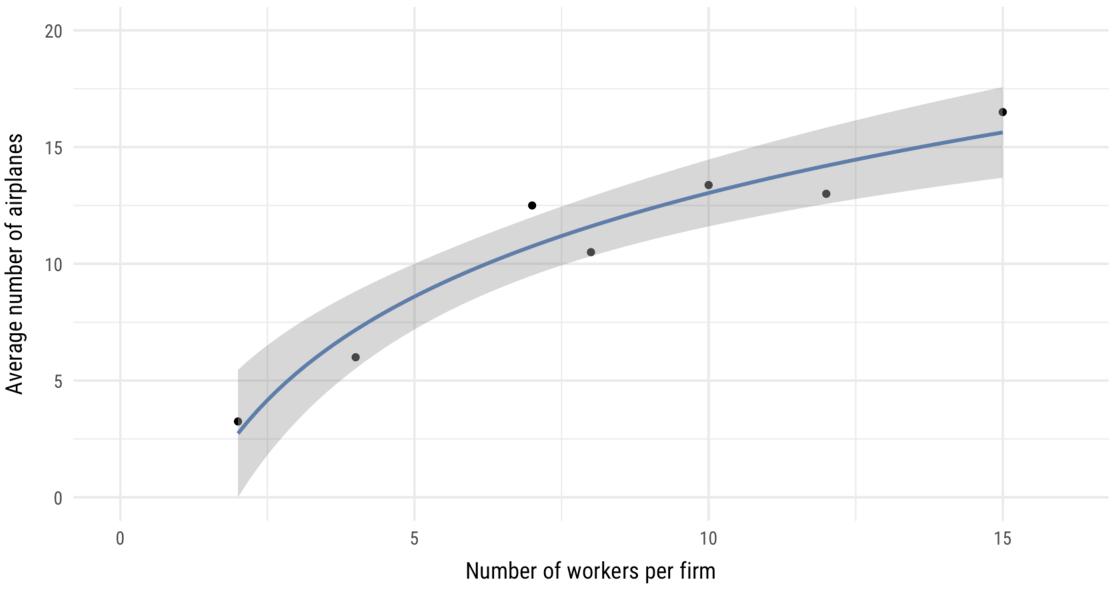
Pay enough or don't pay at all

XYZ AIRLINES

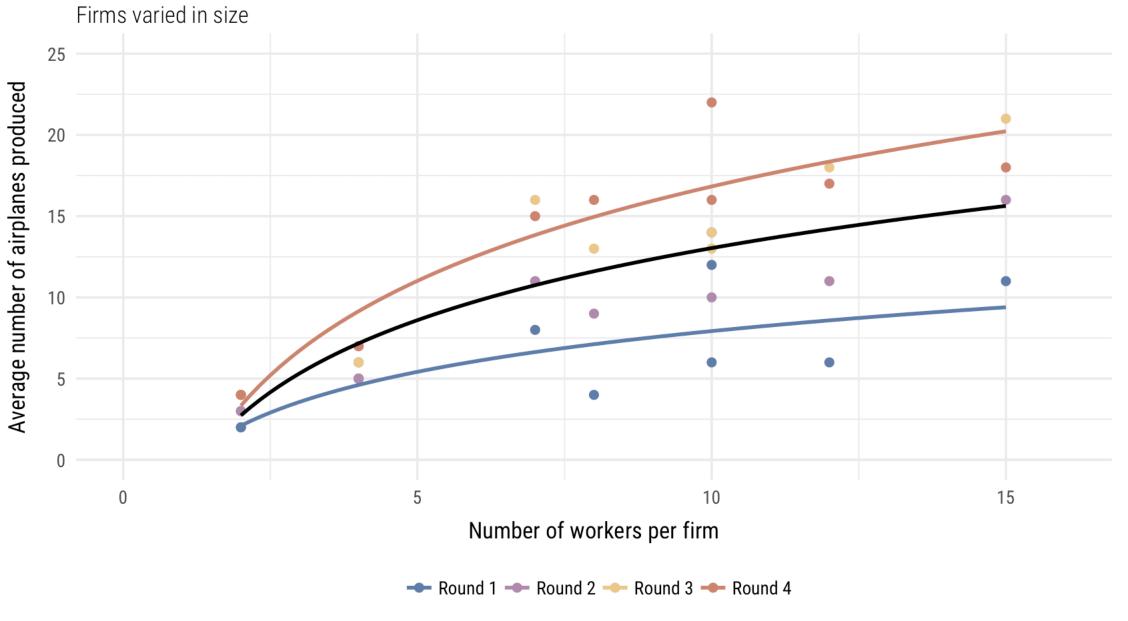


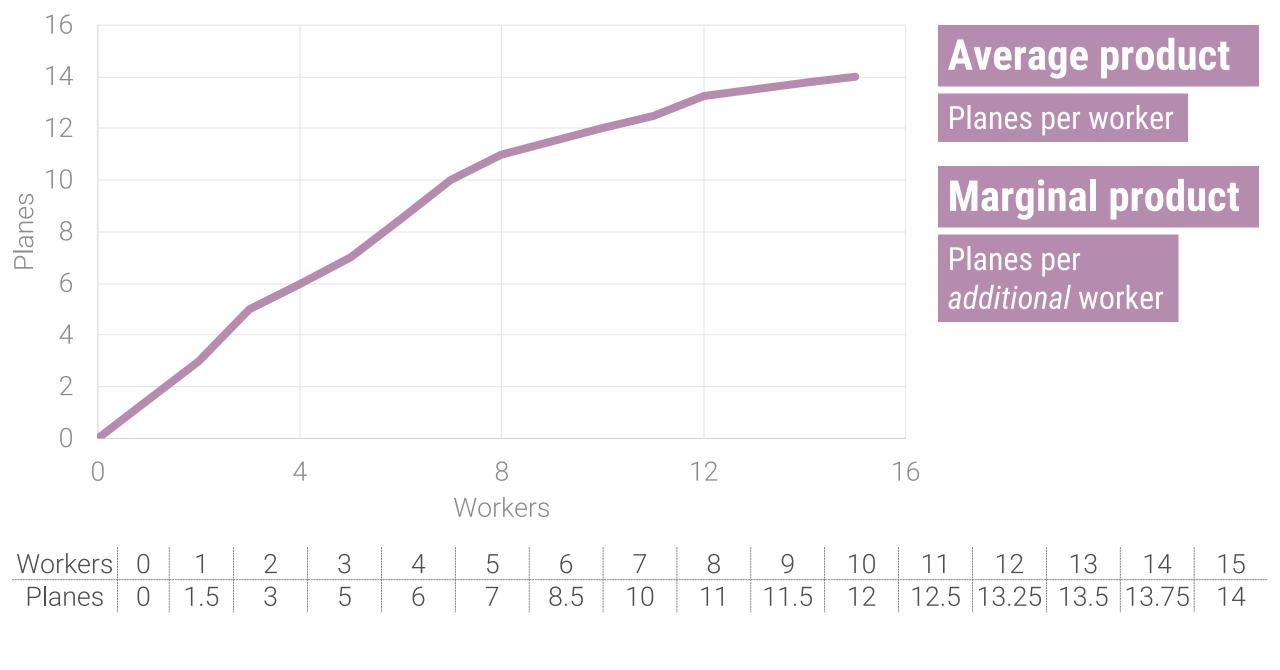
Average number of airplanes produced by 10 firms

Averaged over 4 rounds; firms varied in size

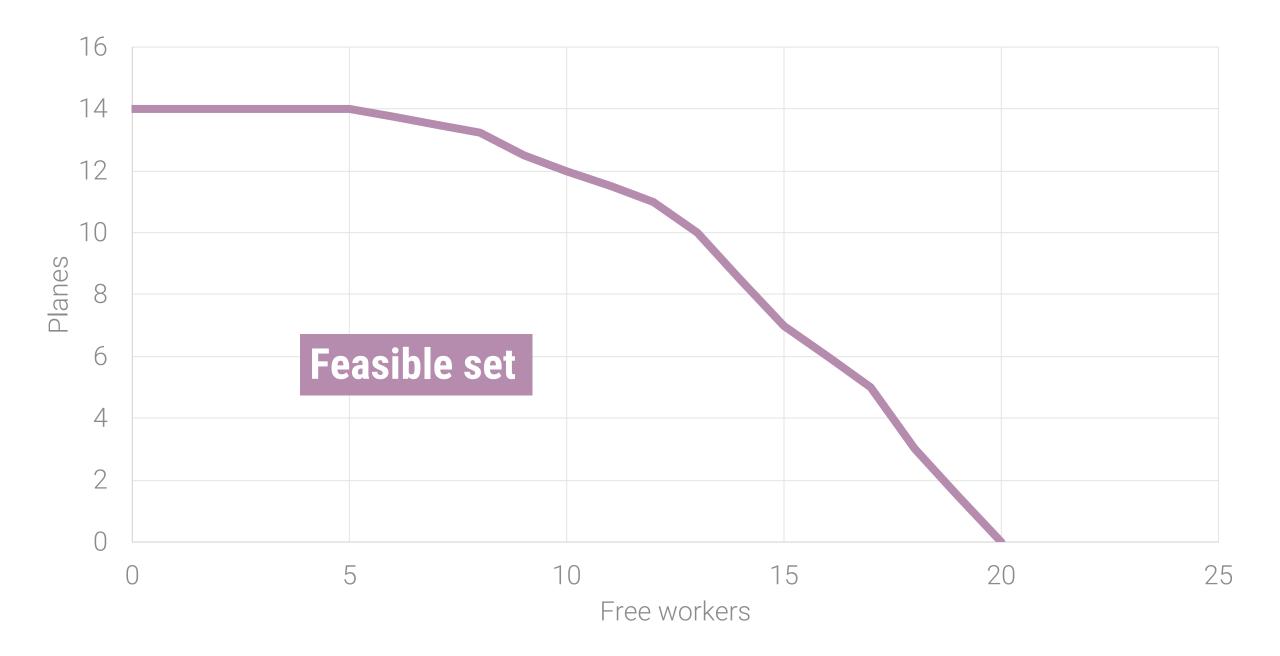


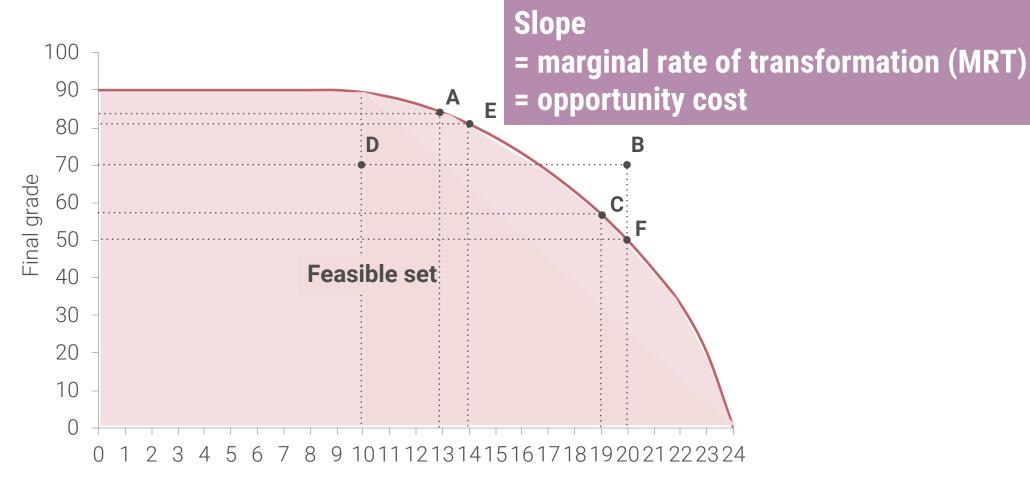
Number of airplanes produced by 10 firms





Does marginal product always diminish?





Hours of free time per day

	A		E		С		F	
Free time	13		14		19		20	
Grade	84		81		57		50	
Opportunity cos		3			7			



IF YOU SPEND NINE MINUTES OF YOUR TIME TO SAVE A DOLLAR, YOU'RE WORKING FOR LESS THAN MINIMUM WAGE.

OPPORTUNITY COST

The value of the thing you can't do because of a decision

The value of the forgone option



OPPORTUNITY COST

Cost for theater concert

\$25

Value of park concert to you

\$15

Economic cost of theater

\$40

Value of theater concert to you

\$50

\$35

Your choice

Theater

Park

PREFERENCES & TRADEOFFS

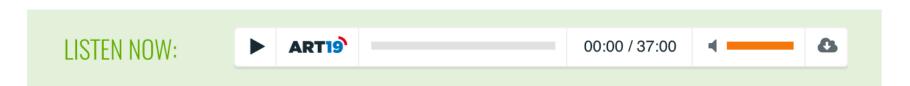
Are We Running Out of Ideas? (Ep. 310)

November 29, 2017 @ 11:00pm by **Stephen J. Dubner** Produced by **Greg Rosalsky**











Stuck in a rut: If new ideas spread so easily, why is productivity growth slowing? (Photo: Wikimedia Commons)

Our latest Freakonomics Radio episode is called "Are We Running Out of Ideas?" (You can subscribe to the podcast at Apple Podcasts or elsewhere, get the RSS feed, or listen via the media player above.)

Economists have a hard time explaining why productivity growth has been shrinking. One theory: true innovation has gotten much harder – and much more expensive. So what should we do next?

UTILITY

Happiness points



Diminishing marginal utility

