EXTERNALITIES			
Efficient Markets			
Competitive markets are efficient maximize "work" allocate			
Assumptions			
perfect information			
no			

Efficient Markets			
 market failure, when the ma society's resources efficiently market power, a substantial influence on market 	. Causes (e.g.): buyer or seller has		
externalities, theexchange on the well-being o "spillover" or "	of a bystander; (aka		
Governments can s	sometimes 		

Externality Externalities can be negative or positive: self-interested buyers and sellers _____ the external costs or benefits of their actions....so the market outcome is not efficient.

Recall...Welfare Economics P 7 The market for gasoline \$5 -**S** -- shows _____ \$2.50 D -- shows_ The market eq'm 20 25 30 **Q** maximizes CS + PS. (gallons)

2

Analysis of a Negative Externality The market for gasoline **P** 7 \$5 = private MC + marginal 4 **S** (private cost) 3 \$1 per gallon 2 (value of harm from smog, etc.) 30 **Q** (gallons) 4

Analysis of a Negative Externality The market for gasoline **P** 7 \$5 Social Market eq'm (**Q** = ____) is ____ than cost 4 social optimum 3 (**Q** = ____). 2 One solution: sellers ___ /gallon 20 25 30 **Q** (gallons)

5

3

Positive Externalities

With a positive externality, the **social value** of a good includes

- ______ WTP (benefit)
- the value of the positive impact on bystanders

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Analysis of a positive externality... The market for flu shots External benefit \$50 = \$10/shot Draw the social 40 value curve. Find the socially 30 optimal Q. 20 What policy would internalize this 10 externality? What happens to total surplus? 20 30 10

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Effects of Externalities:

If negative externality

market quantity _____ than socially desirable

If positive externality

market quantity _____ than socially desirable

8

"Internalizing the Externality" Internalizing the externality: so people consider the external effects of their actions When market participants must consider social costs or benefits, the market eq'm ______ social optimum.

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1) ______ -- regulate behavior directly, e.g... • _____ on quantity of pollution emitted • technology requirements • require immunizations 2) _____ -- provide incentives to private decision-makers to change behavior, e.g... • corrective

Public Policies Toward Externalities

tradable pollution permits

Corrective tax/sub:

• aligns _____ interests
(incentives)

• ideal corrective tax = ____
• ideal corrective subsidy = ____
• different from "other" taxes/subs which distort incentives/market
• results in more efficient market: _____

10 11

10

2

Tradable Pollution Permits

Pollution permit system:

- Permits are issued with a face "pollution" alue
 - A market for permits is established
- _____ of permits (inelastic S)
- Firms with higher abatement costs _____
- Firms with lower costs _____

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Private Solutions to Externalities

- Moral codes and social sanctions, e.g., the "Golden Rule"
- _____ , e.g., the Sierra Club
- between market participants and the affected bystanders

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Why Private Solutions Do Not Always Work

- 1. _____:
 The costs incurred in the process of agreeing to and following through on a bargain.
- 2. _____:
 Even if a beneficial agreement is possible, each party may hold out for a better deal.
- 3. _____ :

 If # of parties is very large, coordinating them may be costly, difficult, or impossible.

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Compare and Contrast Policies

Goals:

- **1)** Reduce _____ ... pollution.
- 2) Efficient outcome: Firms with lowest abatement costs
 - Lowest cost solution
 - Role of incentives

:	* Regulation; * te	echnology requirement;
:	* corrective tax;	* tradable pollution permit

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Private Solutions to Externalities

The _____ theorem:

If private parties can costlessly _____ over the allocation of resources, they can solve the externalities problem ____

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