



The Coase Theorem

- Key concepts:
 - Externalities
 - Transaction costs
- <u>Theorem:</u> If transaction costs are zerothat is, if all mutually beneficial bargains get made-then any setting of legal rights leads to an efficient outcome.
- <u>Observation:</u> Which rule you pick might make one party or the other better off, but the result will be efficient either way.



Coase Theorem (various statements):

- "If transaction costs are zero—if, in other words, any agreement that is in the mutual benefit of the parties concerned gets made—then any initial definition of property rights leads to an efficient outcome."
 — David D Friedman
- "If there are zero transaction costs, the efficient outcome will occur regardless of the choice of legal rule."
 A. Mitchell Polinsky
- "When bargaining costs are zero, the initial assignment of legal entitlements does not affect the efficiency of the resulting allocation of resources." – Herbert Hovenkamp
- "the delimitation of rights is an essential prelude to market transactions; but the ultimate result (which maximizes the value of production) is independent of the legal decision." — Ronald H. Coase









Nuclear plant is worth \$100M/yr to utility to operate.

A meltdown would cause \$500B worth of damage and has a 1-in-10,000 chance of happening in a year. So, the cost of risk to the city is the probability times the loss: \$50M/yr.

Assuming this captures all costs and benefits, what is the efficient result? The nuclear plant operates.



























