Sharing the Competition

Professor Joshua Gans, University of Toronto and Brattle Group "The Pros and Cons of the Sharing Economy" Swedish Competition Authority, November 2016

Outline

- 1. Simple Economics of Sharing
- 2. Asset Acquisition
- 3. Compare with 3rd Party Ownership
- 4. Four canaries
- 5. Regulation + Disruption

Definition: The sharing economy is a market where a **physical** asset is both consumed by its owner and others.



















Definition: The sharing economy is a market where a **physical** asset is both consumed by its owner and others.



What sort of owner shares?

Someone who owns

Someone who does not fully use

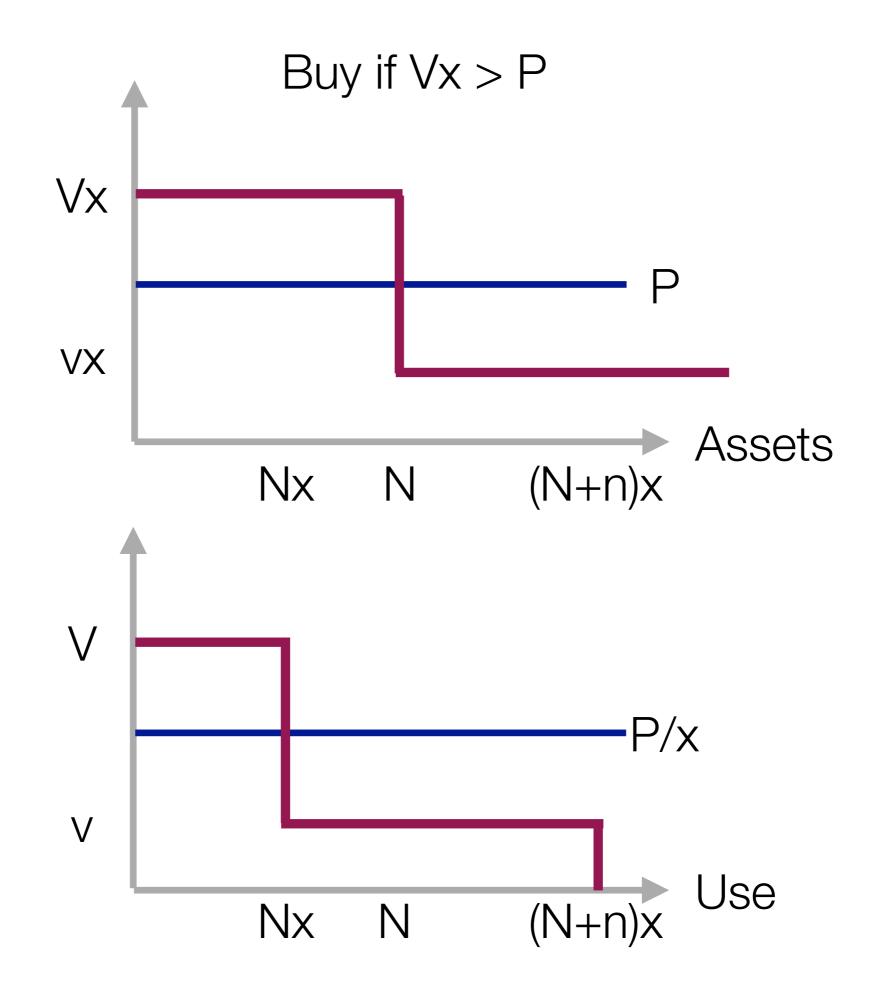
High value: N consumers with value, V, per use

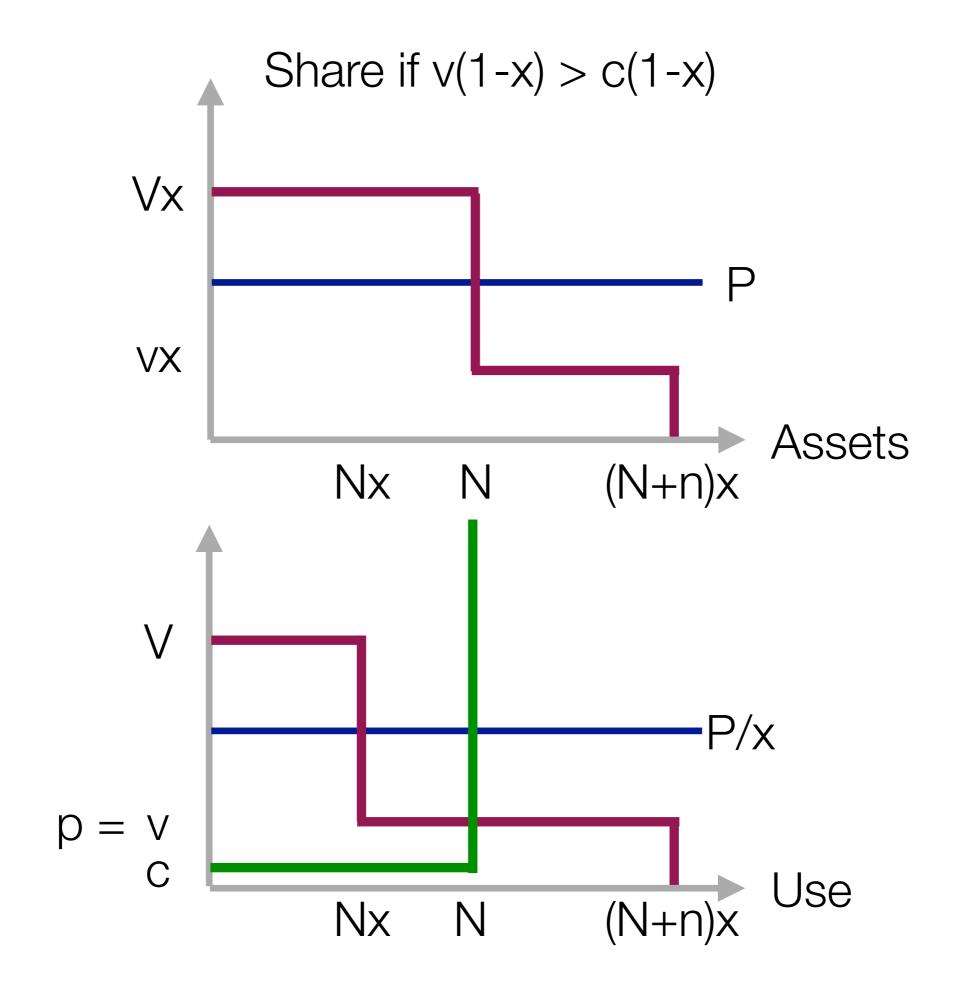
Low value: n consumers with value, v, per use

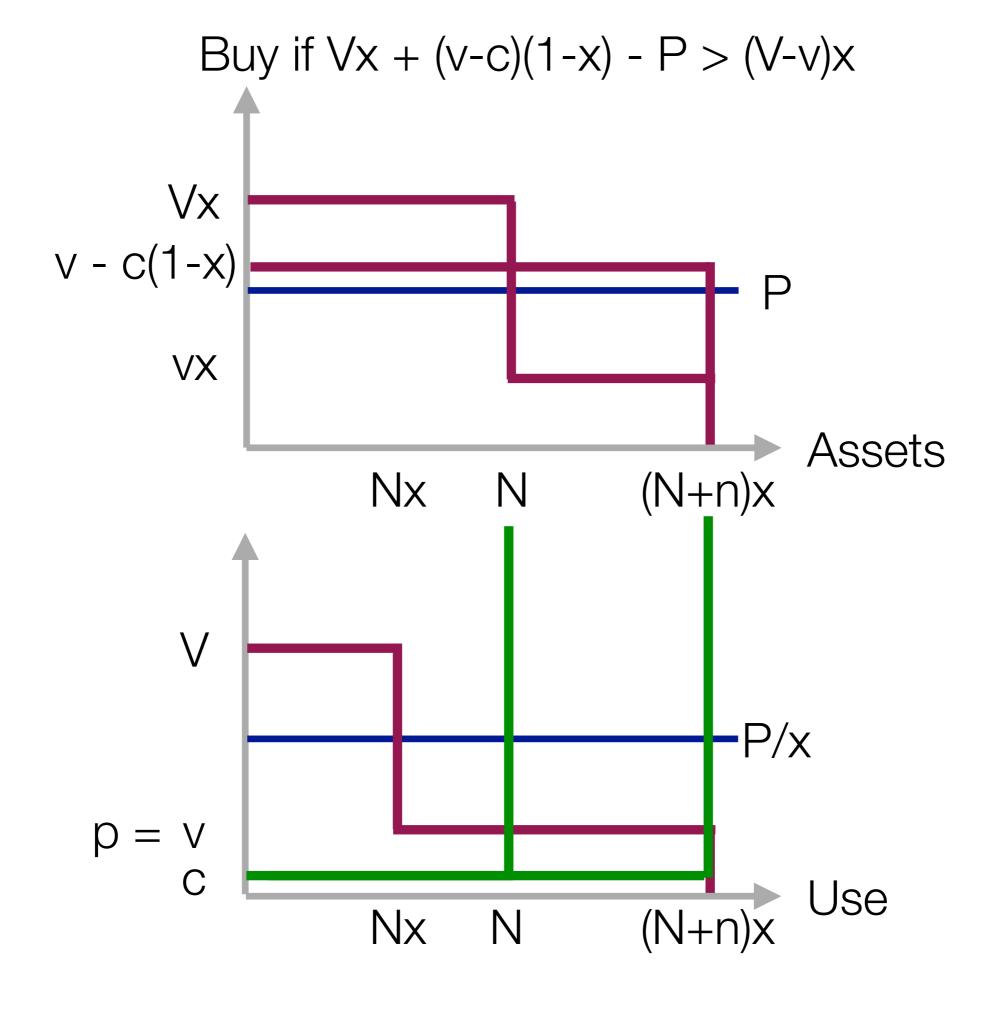
Buy if
$$Vx > P$$

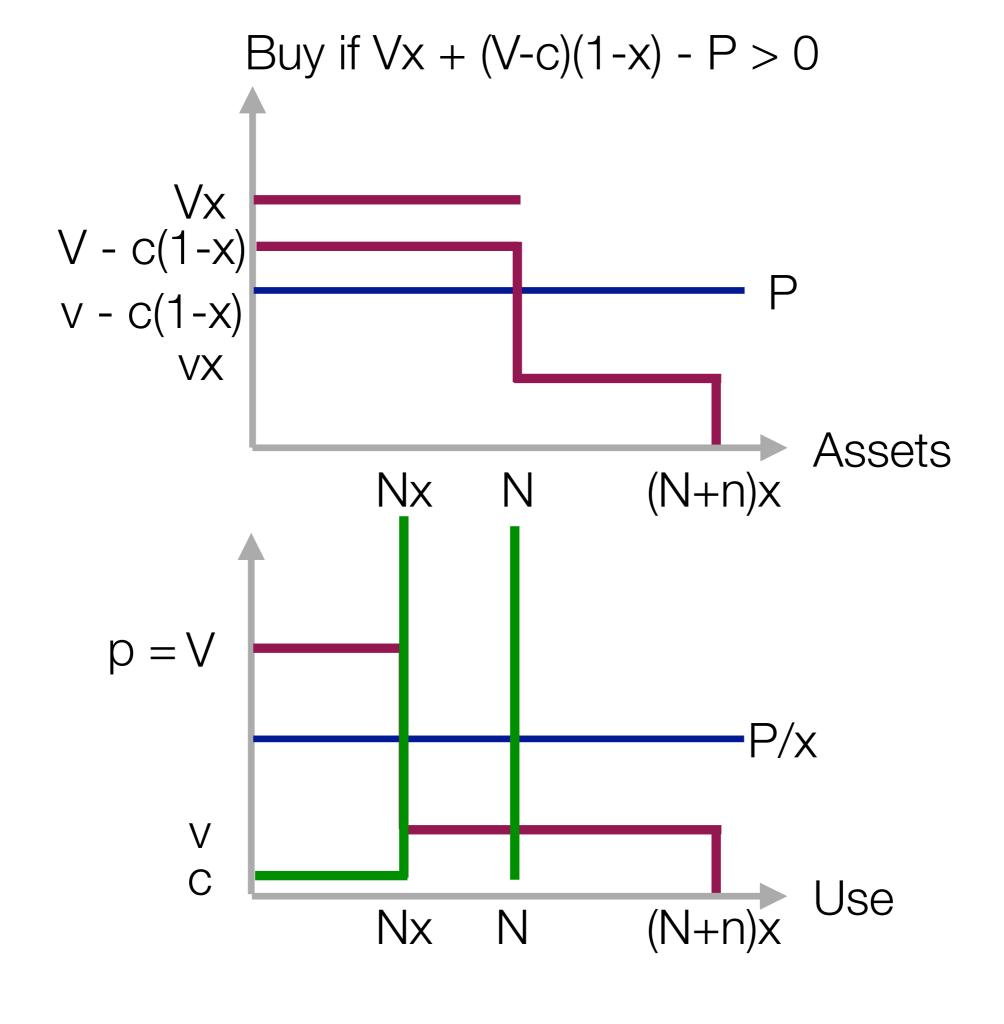
Share if
$$v(1-x) > c(1-x)$$

Sharing price, p, between c (n low) and v (n high).









Asset Acquisition

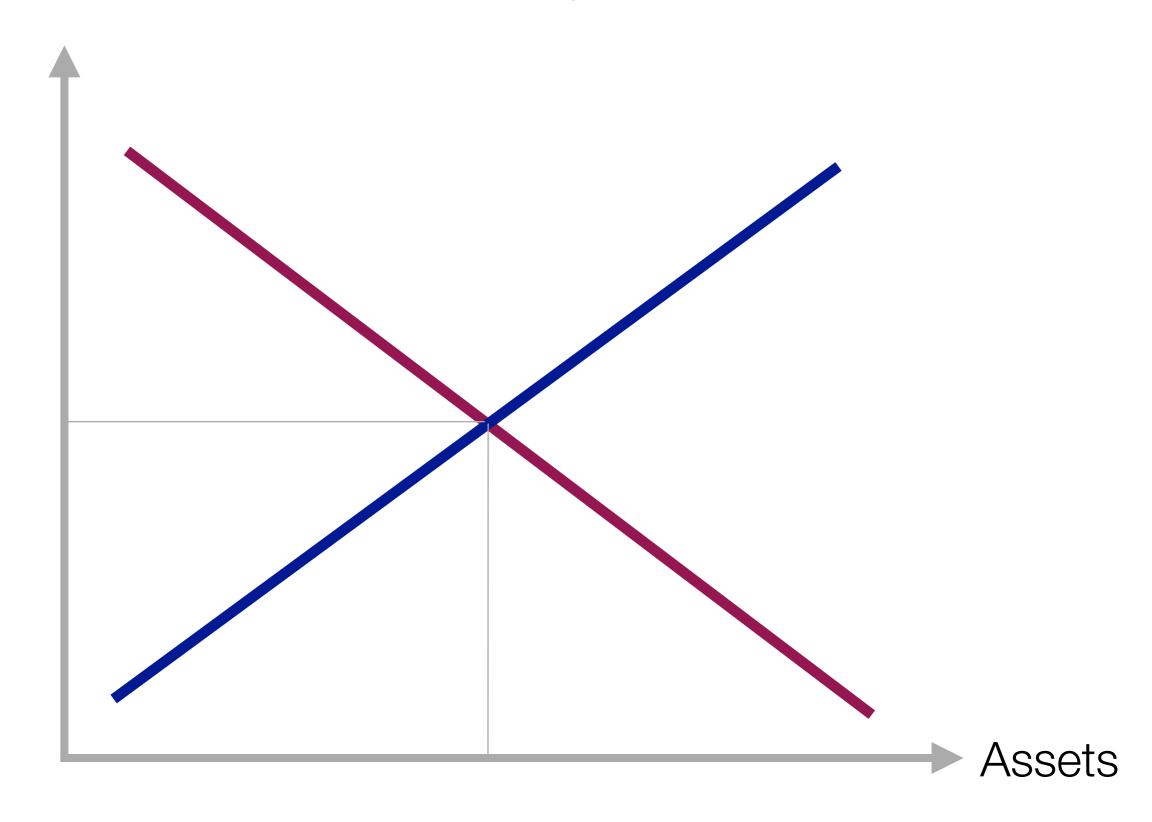
Will buy assets so that fully utilized (p = v)

Return to ownership: v - (1-x)c - P (Independent of type of consumer-owner!)

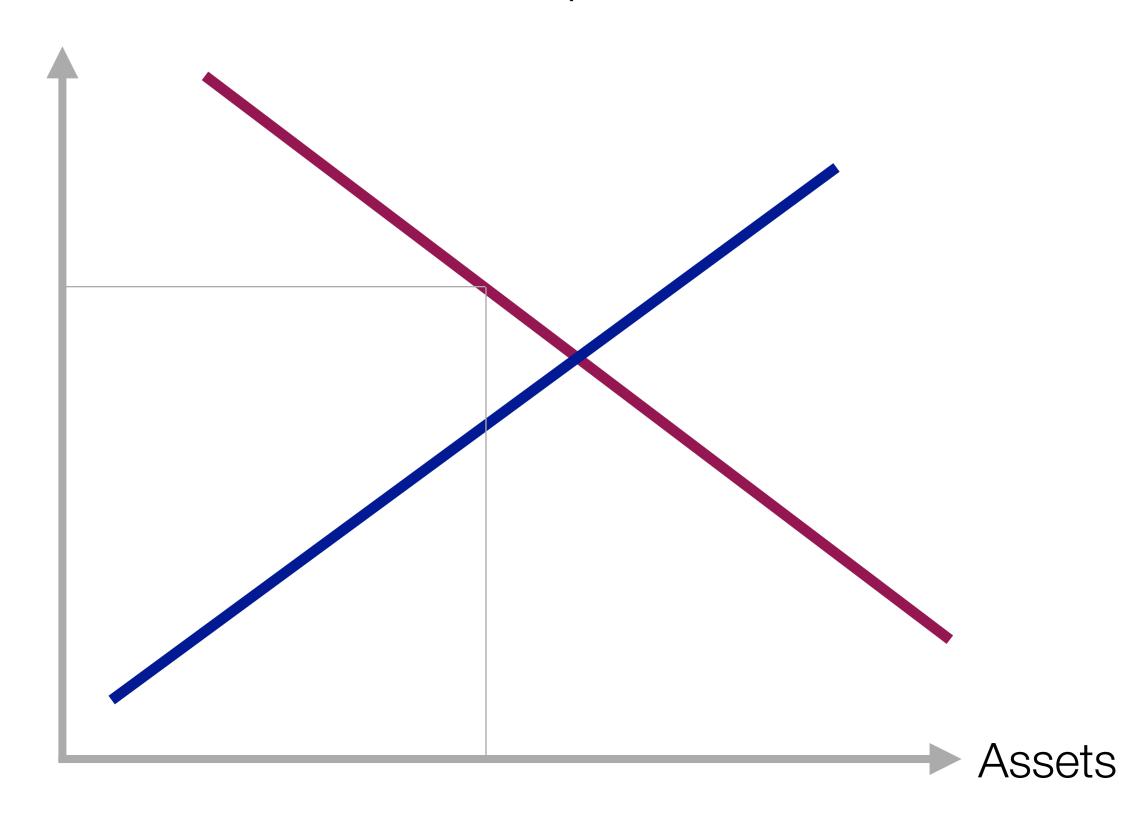
If asset costs are low and under-utilization high, ownership will be dispersed and asset ownership will increase.

If supply is costly so that low values not served, only high types will own and consume so asset ownership will fall.

Short-Term Equilibrium

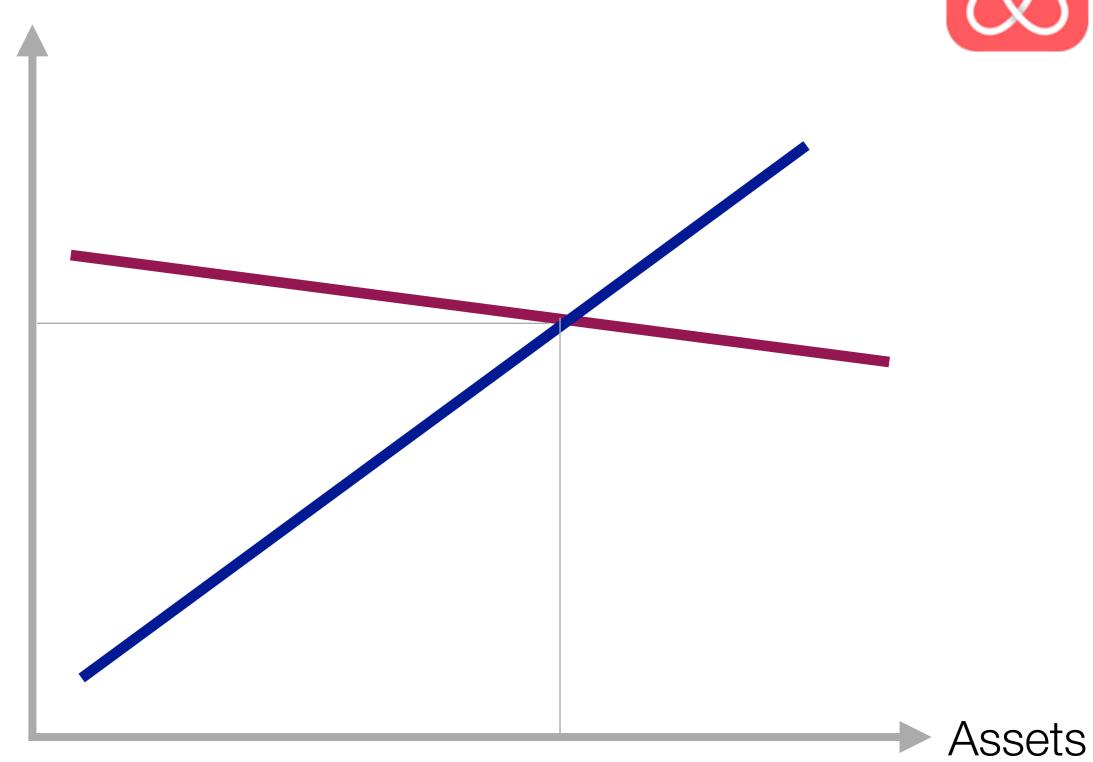


Short-Term Equilibrium

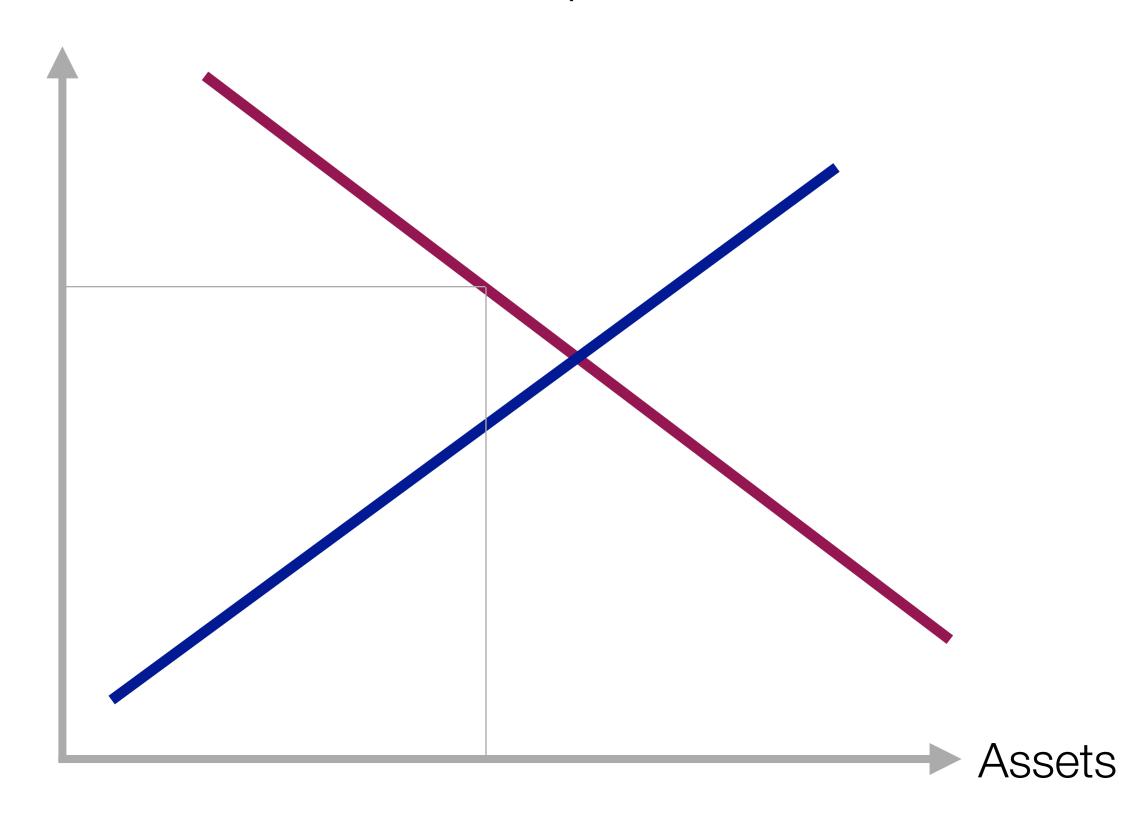


Long-Term Equilibrium



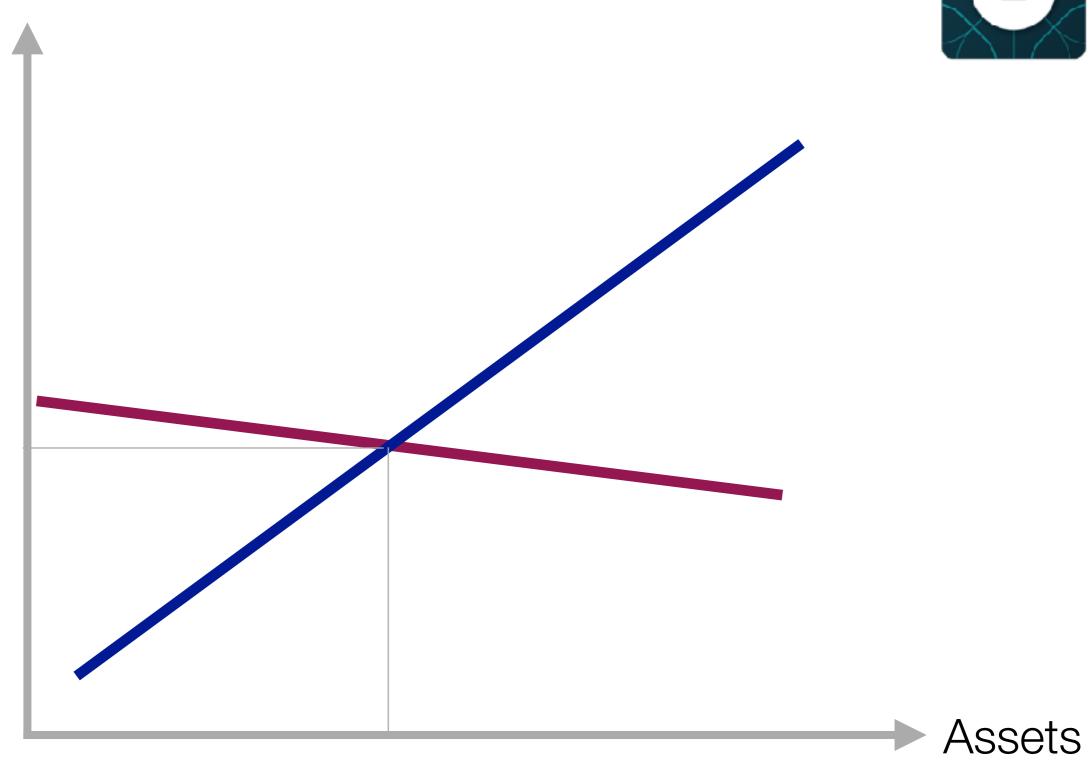


Short-Term Equilibrium



Long-Term Equilibrium





Master Plan, Part Deux

Elon Musk • July 20, 2016

The first master plan that I wrote 10 years ago is now in the final stages of completion. It wasn't all that complicated and basically consisted of:

- 1. Create a low volume car, which would necessarily be expensive
- 2. Use that money to develop a medium volume car at a lower price
- Use that money to create an affordable, high volume car
 And...
- 4. Provide solar power. No kidding, this has literally been on our website for 10 years.

Messages

Increase diversity of asset ownership

Keep transaction costs low

Asset owner appropriability

Long-run equilibrium involves different pricing

Is sharing sustainable?

What should regulators look for?



Doubts being raised over Quebec's legislation regulating Airbnb-type rentals



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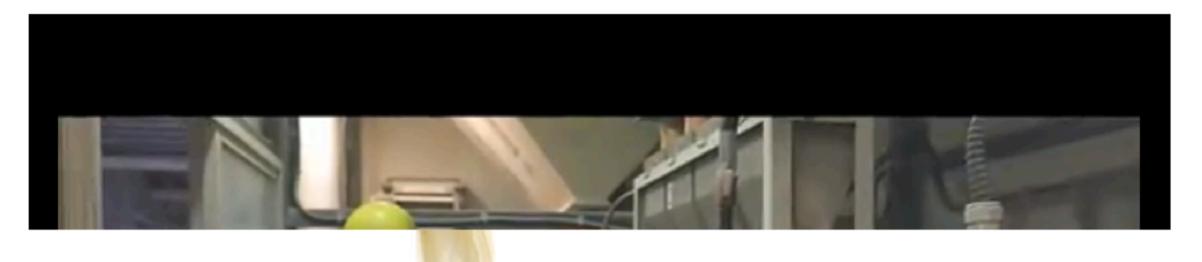
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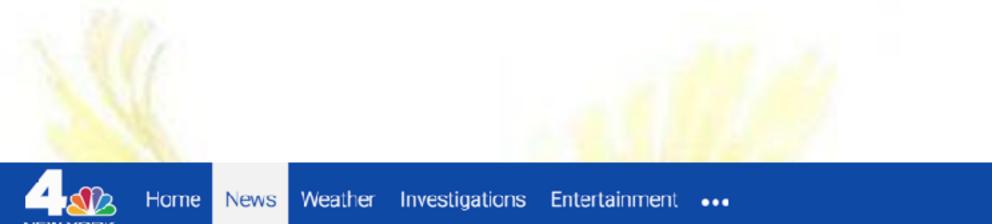


















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By Erica Byfield







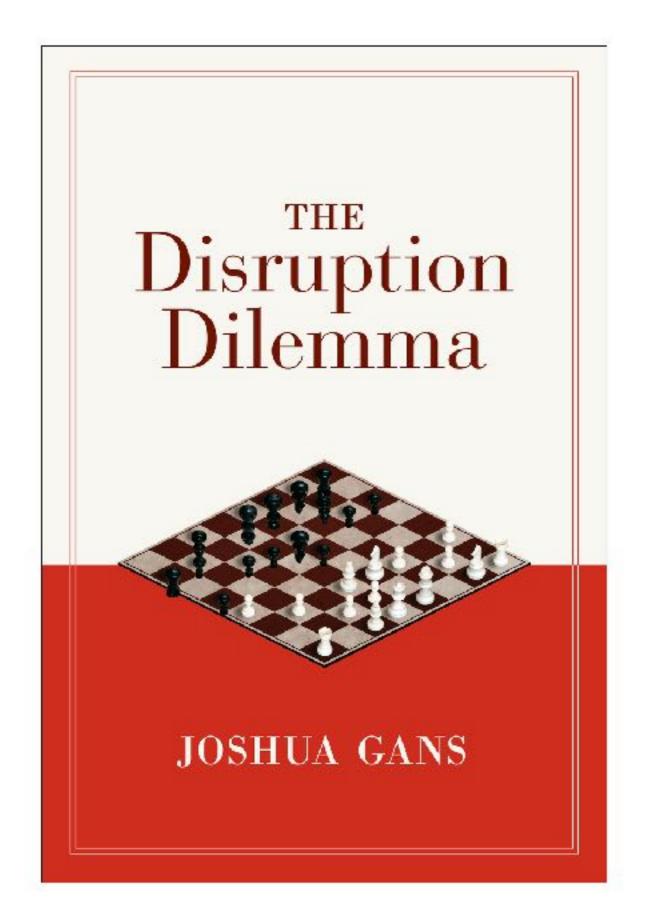












A Note on Disruption

Don't fight wars before they have started

Too much uncertainty