

These slides were prepared to support the oral presentation. They are

The Economics of the Digital Economy

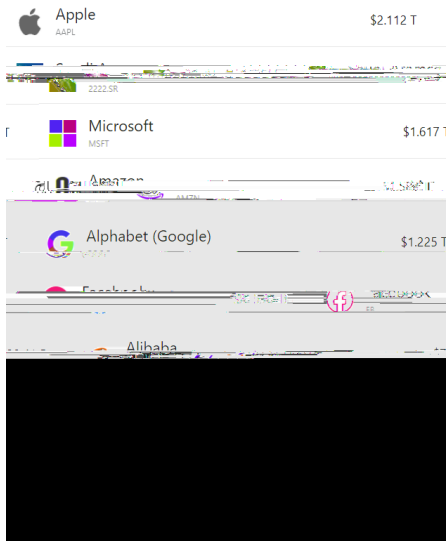
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WTO Webinar on
*The economic characteristics
of data and data-driven markets*
Thursday 10 December 2020

Introduction

Valuations



Disruption / Innovation

- + Replacement of old market places: Amazon;
- + New social etiquette: eHarmony, Tinder;
- + Totally new "intermediaries": Swyft, Uber and their competitors, energy markets, blablacar.

The characteristics of the digital economy

The "characteristics" of digital industries

- + Innovation
- + Increasing returns to scale.
- + The role of intellectual property.
- + Switching costs.
- + Data.
- + Network effects.
- + Two sidedness.

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- + Many of these characteristics encourage the creation of monopolies.
- + And it is "socially efficient" to have monopolies.

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BUT We do not know how "competition for the market" should function to discipline large network firms.

=> We do not know how much of a problem this is.

Network externalities

Network externalities: definition

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"If you want to play the odds when it comes to online dating, you need to be swiping where everyone's swiping."

Network externalities: definition

There are (direct) network externalities if the 'utility' of a participant to a platform increases with the number of other participants on the platforms.

- + Sometimes network externalities can be dominated by the consequences of congestion when the number of participants become too large. Example: movie theater.
- + Sometimes people also speak of 'indirect' network externalities.
Example: more people at the movie theater => fresher popcorn.
Example: more users => more data => better service.

...

Network externalities =>

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Those are the "goods" aspect of competition between platforms
but

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- => Inefficient coordination is possible.
- => Incumbency advantage.

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- + Better price and/or better quality does not **guarantee** that a platform will attract consumers.
- => Inefficient coordination is possible.
- => Incumbency advantage.
 - + These effects are reinforced by competitive advantage due to access to data.

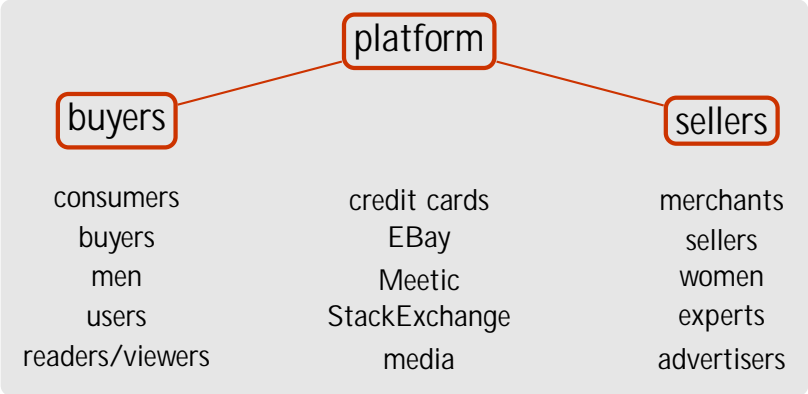
Two sided platforms

Definition

+

Definition

- + Two sidedness: utility of agents depends on the number of agents on the other side of the market.



A user is both a client and something which is sold to users on other side.

New issues

Pricing

- + Price structure should aim at getting both sides on board, not to allocate costs "fairly".
- + Price low on one side if users on that side are very valuable to users on the other side.
 - Google charges 0 to consumers | and provide them with a very valuable service.

"Platforms as regulators"

Two sided platforms organize the interactions between the two sides:

- + Restrict / encourages entry: iOS and Android apps.
- + Regulate prices: no surcharge rules for credit cards.
- + Law enforcement: arbitration processes.
- + Organize matching: Meetic.

Access to data enables them to

- + "regulate efficiently";
- + extract profits from this regulatory activity.