Seminar Paper

Proprietary vs. Open Markets in IT: Apple, Microsoft, Google

Strategies

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Introduction

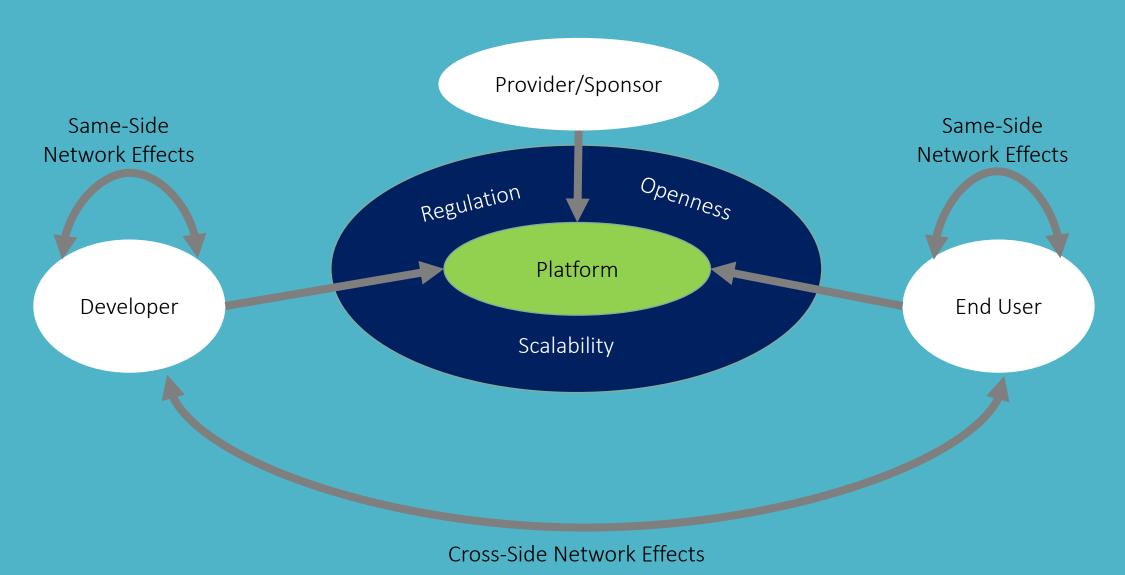
- Scope of the Seminar Paper → Operating System Markets:
 - Mobile OS (Android, iOS, Windows Phone)
 - Desktop OS (Chrome OS, macOS, Windows)
 - focus on global players and market leader → Microsoft Cooperation,
 Apple INC. and Google LLC
- Market Participants:
 - Platform Provider (Sponsor)
 - OEM (Original Equipment Manufacturer)
 - Application/Software Developer
 - End User

Research Questions

- In what ways do proprietary and open markets differ from each other and how can market segments of the three companies, Microsoft, Google and Apple be assigned to the two forms?
- Which **strategies** do **platform providers** use to **maintain** their market position?

Does an open market automatically imply increased social welfare?

Two-Sided Markets



Differences Open vs. Proprietary Markets

Open Markets:

- Open Platform: Free entry and exit for Developers (Hagiu, 2006)
- Open Source Code: operating system is based on open source code
 - → community driven, comparatively low development costs
- no resp. little regulation

Proprietary Markets:

- full platform control trough regulations
- monopoly-like pricing scheme trough "lock-in" strategy
- competitive advantages through patents

Challenges at Two-Sided Markets

Challenges:

1) Get Pricing Right

money and subsidy side → focus on price sensitive side. Generate profits by charging the money side

2) <u>"Winner-Take-All" Dynamics</u>

be aware when markets are lost to competition

3) Platform Envelopment

avoid that other platforms or products can adapt key features of your platform

Strategies at Two-Sided Markets

Strategies:

- o **first mover** advantages: rapid spread through **licensing** strong network effects, sometimes not legal tactics (Android vs. European Commission)
- closed ecosystem → customer "lock-in" + "bargain-then-rip-off" due to increased switching costs
- o make use of network effects→ increase product variety. open platforms: free
 SDKs for application developers.
- rethinking business models → desktop operating system markets and cloud computing: do we need powerful hardware?

Social Welfare & Terms of Condition

- intuitive thinking: open markets are in general more efficient and result in higher social welfare → better for all market participants
- discrepancy between mathematical models in literature → intuitive thinking that open platforms are better than proprietary platforms may not be true
- terms of condition for application marketplaces:
 - sometimes arbitrary decisions by providers of applications markets due to unclear guidelines
 - o can **distort competiton** within markets
 - o differ by regions → hard to compare

Outcomes & Limitations

- IT market is characterized by rapid change → companies need to readjust
 strategies on a regular basis
- open platforms can create substantial added value for organizations and customers through big communities
- provider of proprietary markets retain full control of their customers and ecosystem
- market leader make use of their influence and power sometimes in a negative way
- a general statement of which market form is more desirable cannot be made

Thank you for your attention!

Sources:

Hagiu, A. (2006, May 14). Proprietary vs. Open Two-sided platforms and Social Efficiency (AEI-Brookings Joint Center Working Paper No. 06-12; Harvard Business School Strategy Unit Working Paper No. 09-113). Retrieved 16:25, April 10, 2020 from

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