Organization, Platform, and Ecosystem

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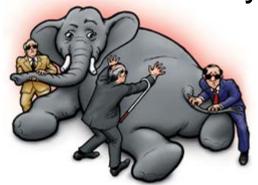


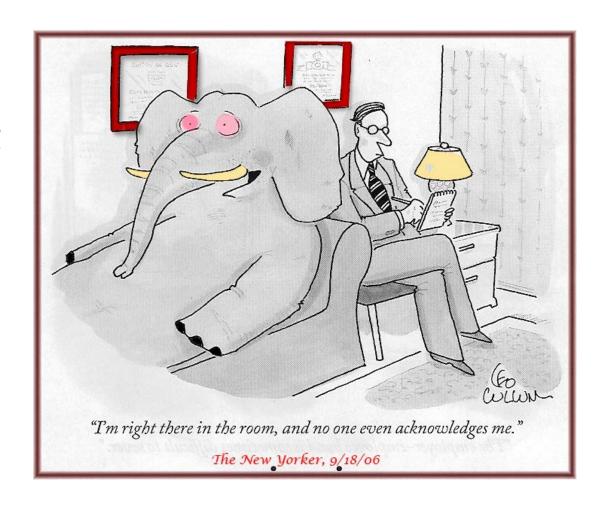
Agenda

- Focus on Platform an organizational lens
- Platform Ecosystem a framework
- Key Characteristics and Perspectives more than business model issues
- Policy Implications new measures?
- New Challenges new emerging species and typology

The Elephant in the Room

- Platform: is it a thing that we can ignore?
- If no, what is the first step that we should take?
- Why are we uncomfortable with platforms & ecosystems?





Grand Hypothesis of Mine

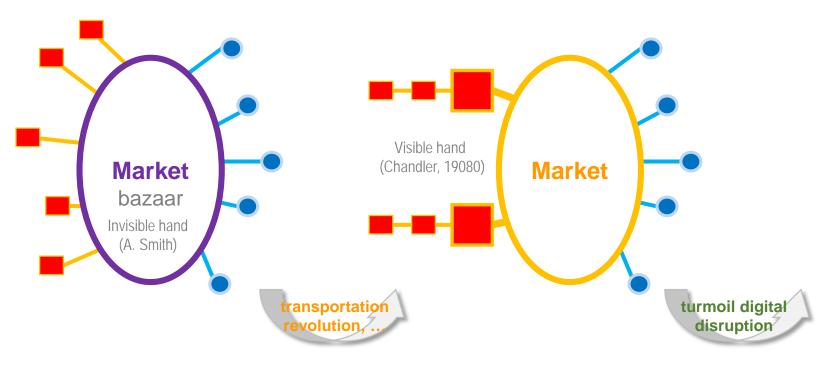
- Predicted on supply and demand
- Price controls trades (even clears some markets)

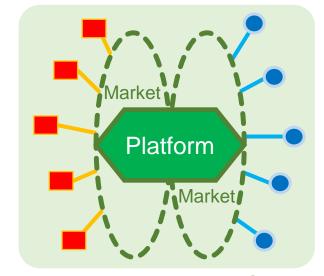
- Predicted on supply
- Quantities and firms are selected in their respective markets

- Supply and demand are unknown, but anyway created
- Some economy sections are selected or discarded

Market vs. Hierarchy (Coase, Williamson)

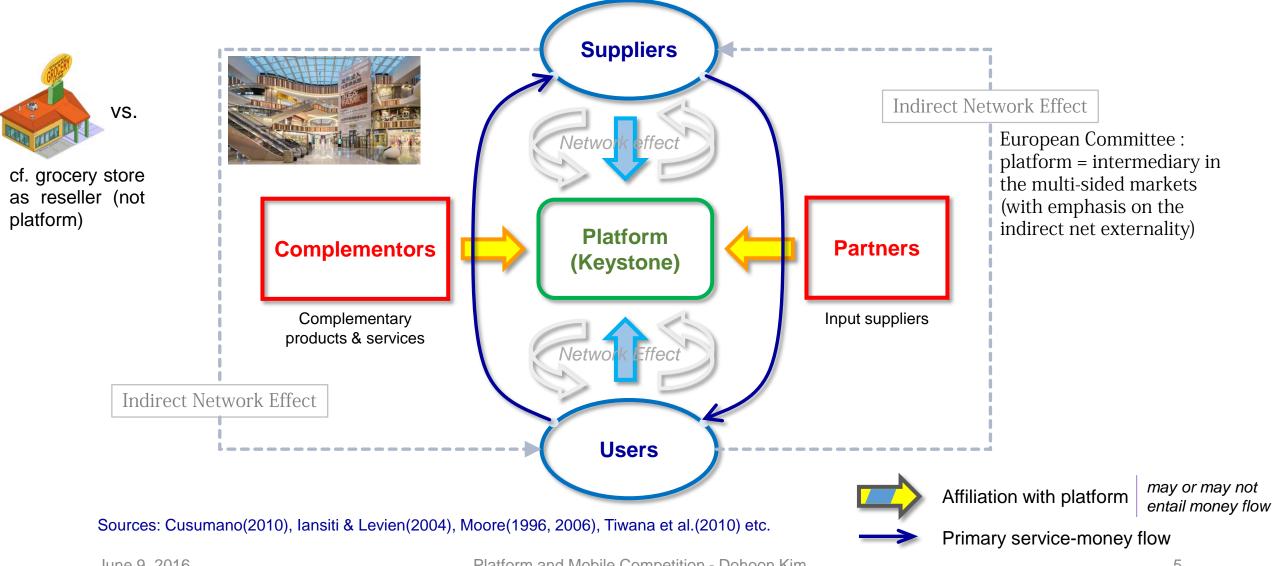
Network vs. Ecosystem (Moore, Iansiti)





Extended Market or Market Creation

Platform Ecosystem: a Stylized, Conceptual Model



Key Characteristics of Platform Ecosystem

Resellers or VI Firms

- aggregate resources and offer value-added serv. by verifying quality for target products
- enjoy economies of scale for high demand products
- take inventory risks and associated burden; but get greater control

Platform Ecosystems

- may be too slow and not sufficiently convenient for either side
 - ✓ costs of being affiliated
- growth-oriented and more capital efficient
- relatively more cost effective and less risky on various or long-tail demand

Key Characteristics Comparisons (continued)

Resellers or VI Firms

- focus on efficiency of internal operations – competing for dominance
 - ✓ emphasis on internal capability ... resource-based view
- Shareholders' value
- Individual rationality and performance
- Control and strategy

Platform Ecosystems

- focus on mutual effectiveness and survival for the shared fate of their participants
 - ✓ Iansiti and Levien (2004); Moore (2006)
- Stakeholders' value
- Collective rationality and performance
- Governance and coordination

Viewpoint 1: Don't Kill the Golden Goose

- Regulating activities that may appear anti-competitive in the short-run; but those activities could be valuable to the ecosystem in the long-run
 - ✓ e.g.) incompatibility & entry barrier: Facebook's ban on data portability to Google+
- Platform is a keystone or a dominator or a landlord?



Viewpoint 2: Wolf in Sheepskin

- Most activities of keystones will be beneficial to their ecosystems and societies?
 - ✓ Actually, many keystones are in a (near) monopoly position
 - ✓ protecting rivals ≠ promoting competition
- How regulations (or markets)
 will encourage platforms to be more beneficial to the society?



The Wisdom of Solomon Needed?

- Why judging vs. is so difficult?
- With traditional markets & firms, monopolization or dominance can be verified by proving two points: (1) market power and (2) exclusionary conduct
 - √ These are valid under the assumption of profit-maximizing actors →
 - ✓ The fact that a firm may possess market power does not by itself put it
 under a duty to help its rivals
- What if a platform does not pursue the profit? Instead, what if the platform just wants to maintain its (location, relation, and other soft, invisible) power in the ecosystem?



New Policy Measures

- How to exercise the power of leading position indirectly and in cooperation with its participants? — This could be good or bad or both...
- Positive signs Iansiti & Levien (2004), Iansiti & Richards (2006) + more
- Robustness
 - ✓ survival rate of ecosystem participants
- Productivity
 - ✓ROI; total factor productivity (need to be modified due to input char.); ...
- Niche creation (diversity and innovation capability)
 - ✓ availability of new funds for investment from platform or its VC partners





New Policy Measures (continued)

- Negative signs
- Investment in critical assets upon which participants depend
 - ✓ Basically, investment is a good thing
 - ✓ Idiosyncrasy could raise the hold-up issue
- Whether (and to what extent) to condone gateway (or adaptor)
 - ✓ Provides room for alleviating platform's control power on its ecosystem.
 - ✓ Compatibility through ex post introduction of gateway; multi-homing;....
 - Katz & Shapiro, AER, 1985 & JPE, 1986; Matutes & Regibeau, RJE, 1988; David & Bunn, IEP, 1988; Farrell & Saloner, JIE, 1992; ...

New Horizon and New Challenges

- "Why are there so many species? (and why they are so diverse?)" – C. Darwin (1859)
- "Why are there so many different kinds of organizations?" –
 Hannan and Freeman (1977)
- The same question applies to the platform ecosystems
- Perspective Change
 - ✓ structure conduct performance paradigm & adaptation → selection as a mode of organizational change and emphasis on dynamics
 - ✓ emphasis on architecture (more than structure) and governance –
 closer to a political system than to an economic system

New Species of Platform Ecosystem

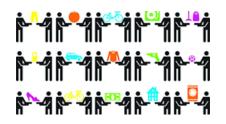












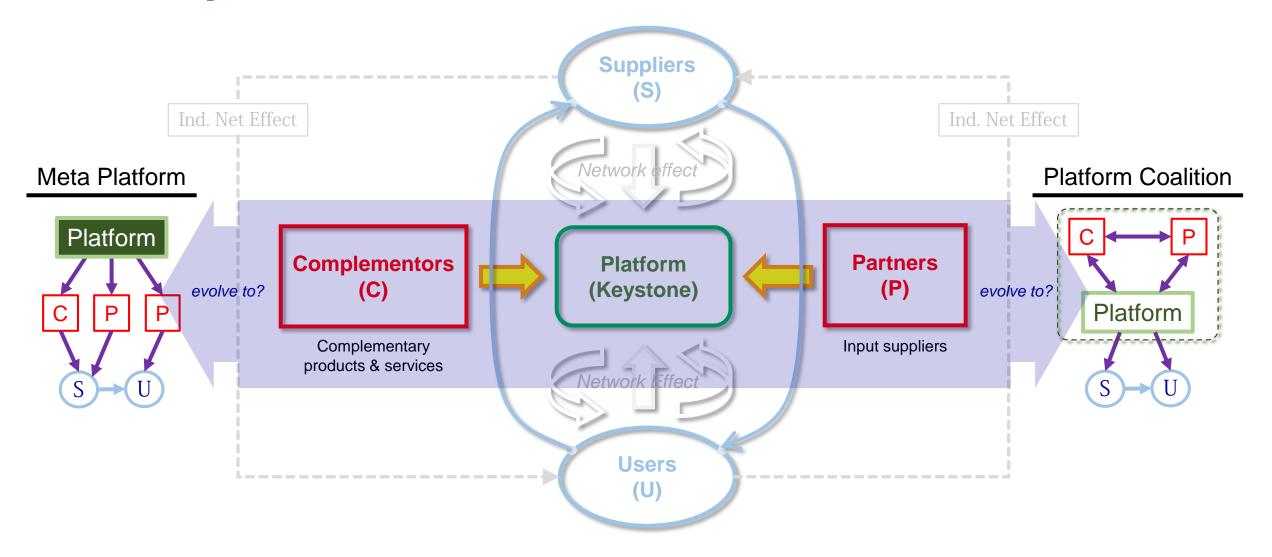








Implications – New Dimension to Focus on



Evolution of Platform Ecosystems: Typology

Meta Platform Ecosys.

- Behind the scene
- Essential component
 - ✓ genesis
- Closer to (extended) VI org.
 - ✓ closed and control-oriented
- X on Apple
 - ✓ needs iPhone or iOS (→ meta platform): e.g. Apple pay
 - √ frontier market exploitation

Platform Coalition Ecosys.

- Figurehead
- Valuable component
 - ✓ leader; enabler
- Faithful to ecosystem
 - ✓ open and coordination
- X with Kakao or Facebook
 - ✓ independent of devices; dep. on partners: e.g. Kakao pay
 - ✓ market expansion w/ low margin

Wrap up

- Platform ecosystems are everywhere
- They are still evolving
- Their diversity makes it difficult (almost impossible) to design a one-size-fits-all policy or law
 - ✓ Need to develop classification systematics for the ecosystems
- They don't behave according to sheer (traditional) economic motivation
 - ✓ Sometimes they look closer to a political system
 - ✓ Governance and coordination could be key dimensions that policy (and even law) development focuses on