











Platform Boundary Resources

• Capabilities such as APIs or meta-data that serve as the interface between a platform's core and peripheral resources (Ghazawneh and Henfridsson 2013; Eaton et al. 2015)

• Important means of:

Transferring design capability to platform stakeholders (cf. Von Hippel and Katz 2002)
 Growing the platform (Parker et al. 2016)

• Examples:

Google Maps API
iOS APIs
OpenStreetMap meta-data

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Platform Generativity

Platform generativity

- the generation of new outputs without direct input by the platform operator • Highly desirable for platform operators:
- Cannot possibly develop all functionality
- Arm's length relationship to platform complements
- However, not all generativity is equally desirable

• Information asymmetry (Ho and Rai 2017)

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Endorsements

Endorsements: actions that signal desirable interaction on the platform

• Examples include:

- Give special status to preferred developers (Ho and Rai 2017)
 Sanction new use cases (Förderer et al. 2018)
- Formulate code of conducts (Karhu et al. 2018)
 Announce future plans (Parker et al. 2017)

Research Question

- How and why do endorsements influence generativity? Two elements:
 - identify different strategic motives for endorsements
 test the impact of the identified endorsement motives on platform
 generativity

Mixed Methods

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- Multi-method study of the geo-data platform OpenStreetMap.
 - In-depth content analysis of its discussion forum to inductively identify strategic motives for endorsements.
 Formulate hypotheses to test the impact of these endorsement motives on platform generativity using an original data set of tagged geodata from OpenStreetMap.

Data

Database excerpt covering the European continent

- ➢ OpenStreetMap
- Full editing history of every data point including tags

Sample

- From 06/2009 to 12/2014
 Focus on 10 popular tag groups
 20,000 +/- objects per tag group









Motive for	Description	Example from	References
Endorsement		Content Analysis	
Commit to New Market	Expanding the market footprint of a platform by establishing a categorically new way of interacting with platform resources.	Endorsing the building= and shop= tag categories as new additions to the data model	Boudreau 2010 Eisenmann et al. 2011 Evans et al. 2009
Accommodate Third-Party	Accommodating interests of platform participants	Endorsing highway= tags in the database that provide finely grained details to external navigation applications	Eaton et al. 2015 West 2003
Balance Market Demand	Directing the platform such that the installed base is maximized	Endorsements that prioritise general and widely applicable tags over niche or localized alternatives	Parker et al. 2017 Boudreau 2012
Ratify Emergent Use	Reacting to unanticipated use cases	Endorsing tags that were unanticipated such as detailed distinctions for rental objects (boats, cars, bikes, etc.)	Förderer et al. 2018 Wareham et al. 2014

Study #2

- Source: full excerpt of tagged geo-data in Europe
- Focus: number of objects and level of detail per tag
- Aim: Do endorsements benefit platforms in scale and scope?

scale: more data objects with an endorsed tag?

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Results (5):

• 2 of 4 endorsement motives lead to platform generativity

Endorsement Motive	Increases Platform Scale	Increases Platform Scope	
Commit to New Market	confirmed (H1a)	confirmed (H1b)	
Accommodate Third Party	confirmed (H2a)	confirmed (H2b)	
Balance Market Demand	confirmed (H3a)	not confirmed (H3b)	
Ratify Emergent Use	not confirmed (H4a)	not confirmed (H4b)	

Conclusions

• Contributions:

- Identifying four strategic motives for endorsing boundary resources for generativity
- Explaining how and why these motives influence platform generativity
- Creating new markets and third-party accommodation are straightforward endorsements for generativity
- Balancing market demand and ratifying emergent use less clear-cut cases

Many thanks for your attention!