

Modeling of Mobile Internet Ecosystem

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Introduction
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Department of Communications and Networking

Worlds of People and Things









)Google

You Tube

OO talk

Google | Analytics

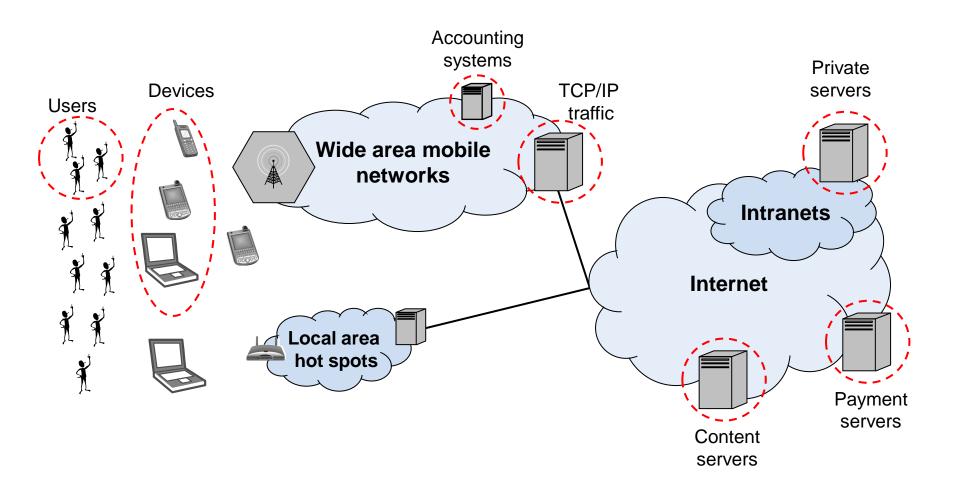
Source: IBM, 2012

MoMIE Project and Academic Results

Task	Journal papers	Conference papers	Doctoral theses	Master's theses
1: Diffusion modeling	3+2	1	A.Kivi +1	
2: Mobile user behavior	1+0	2	+1	3
3: Social network modeling	3+2	4	(J.Karikoski) +1	1
4: Handset energy efficiency	1	6	M.Heikkinen	2
5: Reliability of connections	0	2		
6: Techno-economics of Mobile Internet	2+1	2	T.Smura	2
7: Real-time business optimization	1+1	2	+1	0+1
8: Effects of Mobile Internet on society	0+1 (and a book)	1		1+1



Behavioral Data Sources

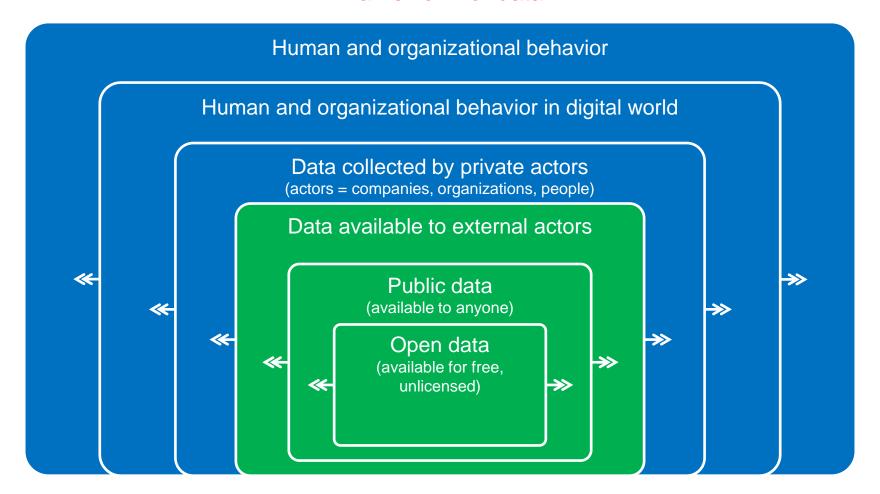






From private to public to open data

Framework for data



Source: Smura, 2012



Team Collaborations

Research, foreign

Kungliga Tekniska Högskolan, prof Jens Zander
University of Zurich, prof Burkhard Stiller
Chalmers University, prof Erik Bohlin
MIT, Dr David Clark
Delft University, Dr Harry Bouwman
UC Berkeley, prof John Chuang
Waseda University, prof Hitoshi Mitomo

Research, Finland

Turku School of Economics, prof Juuso Töyli Aalto, COMNET professors Aalto, SCI, profs Martti Mäntylä, Kimmo Kaski Åbo Akademi, prof Christer Carlsson

Aalto Network Economics Team

Prof Heikki Hämmäinen

Industry, foreign

Sasken Technologies, Dr V. Sridhar GfK, Dr Antero Kivi Arbitron Mobile, Tero Lindberg KDDI, Takeshi Kitahara

Industry, Finland

Nokia, NSN, Ericsson,
Elisa, TeliaSonera, DNA, Finnet
Sanoma, YLE,
MINTC, Ficora,
Accenture, JoikuSoft



Team People

- Heikki Hämmäinen, professor *
- Kalevi Kilkki, docent *
- Timo Smura, post doc *

MSc students

- Görkem Cakmak *
- Selam Kebede *
- Jony Rabiul
- Ud Din Fawad *

PhD students

- Thomas Casey
- Juuso Karikoski *
- Mike Katsigiannis
- Pekka Kekolahti *
- Tapio Levä
- Antti Riikonen *
- Tapio Soikkeli *
- Henna Suomi
- Nan Zhang
- Benjamin Finley *

Communications Ecosystem Master's students

- Class 2010 (6 students)
- Class 2011 (9 students)
- Class 2012 (6 students)

