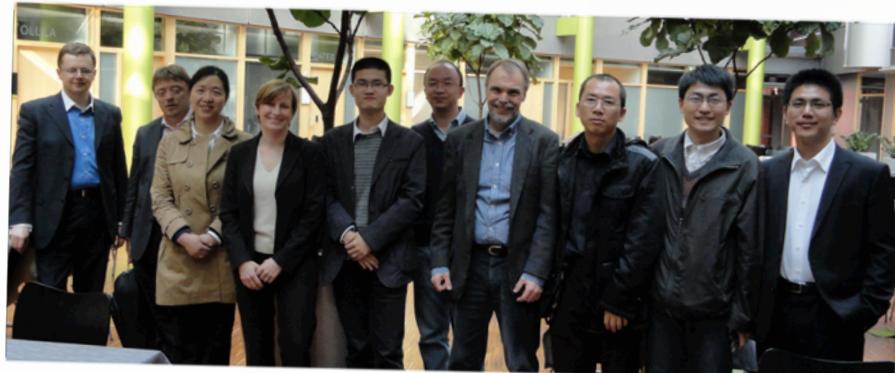




Ubiserve

China-Finland Collaborative Research Project Ubiserve



9.3.2012 Marikka Heikkilä, JYU

Project Facts: Ubiserve



Research on Future Ubiquitous Services and Applications

Tekes funded China-Finland ICT alliance research project

- Duration 2010-2012, volume 140,5 person months



Research Partners

- Tampere University of Technology, prof. Yevgeni Koucheryavy
- Aalto University, prof. Matti Hämäläinen
- University of Jyväskylä, prof. Jukka Heikkilä (JYU & UTU)



Funding Partners

- Nokia, Mika Grundström
- Nokia Siemens Network, Hannu Flinck
- Tieto, Sami Sivonen
- MT Innovations, Hannu Verkasalo



Research areas:

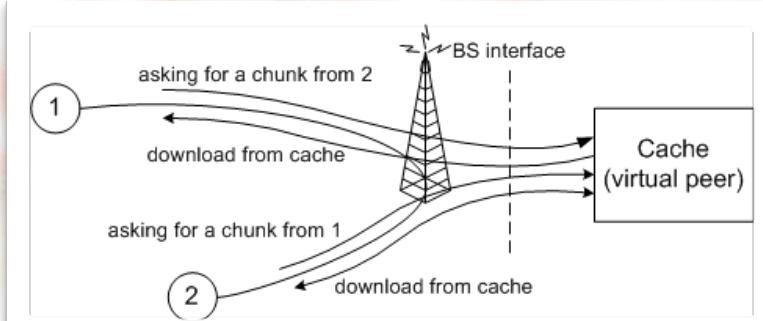
Ubiserve

Transmission algorithms

Systems for traffic localization in distributed P2P system.

Service Overlay Design, Architecture and Testing

PlanetLab European testbeds are used to configure nodes and virtual links. Development of service prototype.

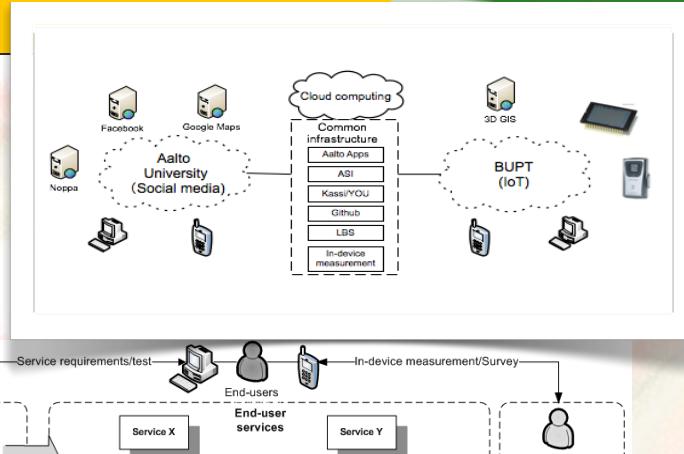


Research areas:

Ubiquitous Media innovation in Campus

-developing a joint environment for studying mobile services in living labs

- sensors/devices as resources with the mobile and social media environments.
- Portals for setting up, managing, visualizing the results of research experiments



Ubiserve

Achievements

Ubiserve

Scientific papers: 13

Conferences: 2

Researcher exchange/visits: 27



Collaboration

eBEREA
易彼瑞亞



eBEREA network (5 Chinese and 5 European universities) www.eberea.org

China:

- Renmin University of China, Beijing
- Southwestern University of Finance and Economics, Chengdu
- Xiamen University, Xiamen
- Xi'an Jiaotong University, Xi'an
- Zhejiang University, Hangzhou

Europe:

- Aalto University, Finland
- Delft University of Technology, Netherlands
- University of Jyväskylä, Finland
- University of Trento, Italy
- Åbo Akademi, Finland



- ★ Active researcher exchange
- ★ Joint conferences annually
- ★ several smaller workshops
- ★ coordinated by a management board



Future: Research Interests of UBISERVE partners (in April 2011)



Ecosystem level	Improved value creation	Business models, trust & privacy, Research infrastructure to experiment the services
Services level	Improved user experience	Key Performance Indicators for different user groups, provide open APIs to create new services
Applications level	Improved ICT applications for location based services, ubiservices	Mobile social networking, mobile cloud
Protocol & processing level	Improved technical solutions & protocols	intelligent composition (e.g. SOA) P2P protocols, M2M (in autoindustry) D2D, signal processing, video analysis and transmission

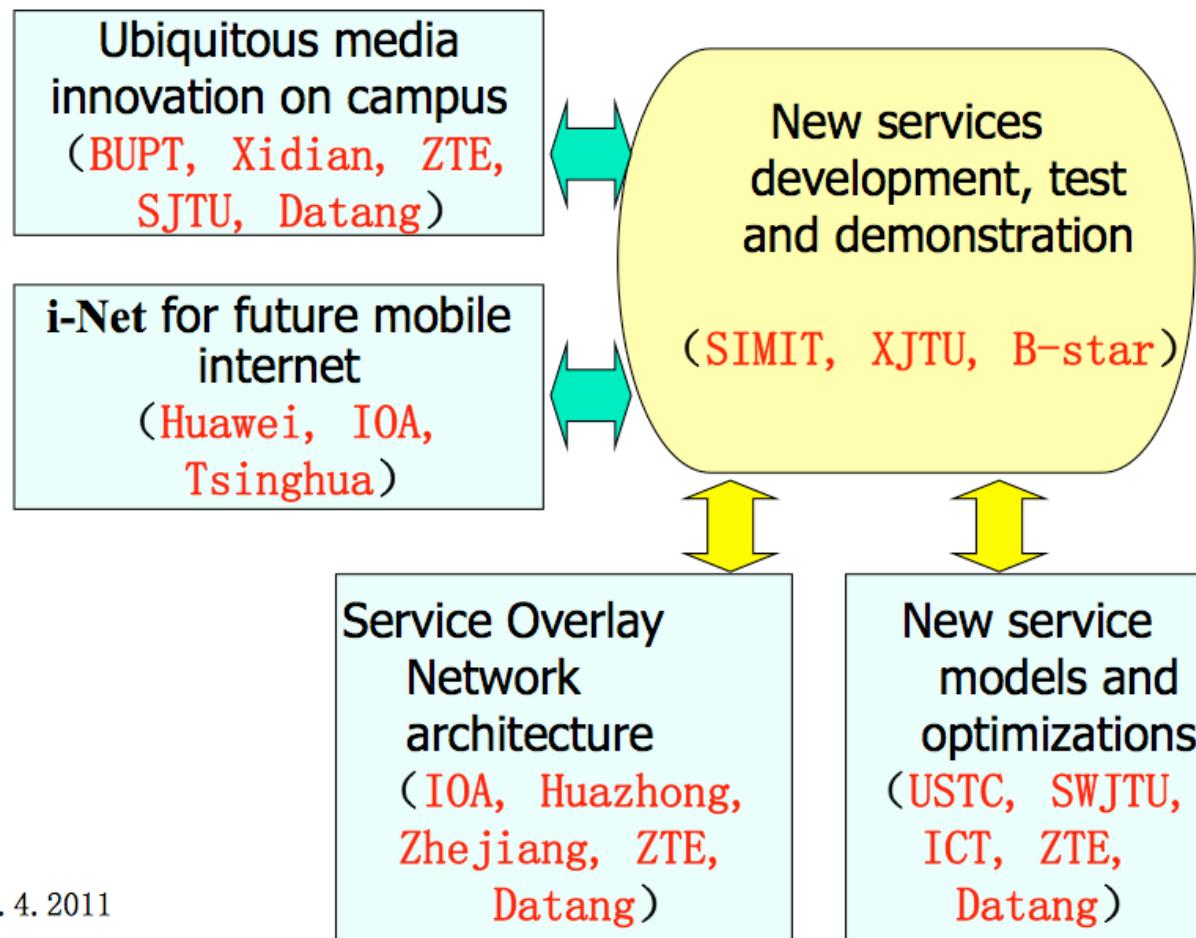
Future: Our suggestion



Currently the Research on Future Ubiquitous **Services and Applications** -projects emphasizes processing-level

Next we could pay more attention to the upper layers:
applications, services and ecosystems.

eBEREA (The eBusiness Education and Research Network for Euro-Asian Collaboration) can be utilized
in widening the researcher community



SIMIT,
Xidian Univ.,
B-Star
company,
Datang Mobile,
IOA of CAS,
Huazhong
Univ.,
ZTE,
USTC,
ICT of CAS,
BUPT,
SJTU,
Huawei,
Tsinghua,
Zhejiang Univ.,
XJTU,
SWJTU.

Aalto University;
University of
Jyvaskyla;
Tampere Univ. 9