



**Position paper for FI PPP Use case workshop**

**TOWARDS A FUTURE INTERNET PUBLIC PRIVATE PARTNERSHIP:  
SECOND USAGE AREA WORKSHOP  
BRUSSELS, 21 - 22 JUNE 2010**

- (1) **What use case and scenario in your area would you consider the most appropriate and representative one for large-scale experimentation with the Future Internet platform to be built starting from 2013 (please refer to the documents referred to on the above websites for inspiration)?**

Oulu Smart City approach with its developing infrastructure and living lab (Oulu Urban Living Labs –

OULLabs) is a multifaceted environment where real-life use-centric innovations flourish. User needs

and added value are in key foci, putting various types of users (both end-users/consumers and professional/industry) and their needs at centre stage.

The collection of various Living Lab functions stretching from technological test beds and converging networks laboratories all the way to advanced services and service platforms in various fields (including all mentioned in the case of FI PPP), form a unique set which makes Oulu region ideal place to live and develop FI based businesses. Due to the versatility the most natural use case and scenario for Oulu would be content based, as it would actually make it possible to involve also other use cases to the process.

- (2) **What innovative Internet functionality and technologies would you consider important for your suggested use case and scenario (e.g. context awareness, sensor networks, advanced real time processing capabilities handling huge volume of data, ad hoc service composition and mash-up, managed broadband connectivity and services, embedded media support for interfaces easing the interpretation of processed contextual data, etc.)?**

As stated in question 1 the Oulu Urban Living Labs environment covers various technologies making it possible to process several use cases in this environment, linking the user driven approach to all of them. The development work in Oulu takes into account the growing interest towards 3D internet, especially from open innovation perspective; almost everything could be linked to 3D internet. This functionality would provide new interesting possibilities both to service and technology developers.

- (3) **Which of the identified functionalities would you expect the Future Internet core technology platform to deliver to support your and other usage area scenarios?**

Future Internet core technology platform shall enable multifunctionality, putting special emphasis on open interfaces and user orientation. Technically and technologically this would mean access and functionality via all possible equipments as well as that performance must be sufficient and reliable enough.

- (4) **What kind of experimentation environment would you consider necessary for broad large scale testing of the platform to be developed in your use area? What would be needed to experiment new services and applications cutting across use areas (services and application mash-up) and building a new services and application ecosystem around the prototype implementations of the platform?**

The experimentation environment shall make it possible to flexibly test different kind of solutions and services in a future-oriented “too good” environment. This would mean e.g. IPv6, packaging the support services in a way that makes it easier to develop new services - one-stop-approach – as well as 3D fit HW.

- (5) **How do you see the potential role of your organisation in the FI-PPP, in the context of Usage areas taking a prominent role in the Initiative, to ensure an appropriate application driven approach?**

Center for Internet Excellence (CIE) acts as an active coordinator of OULLabs, drives for development, research and commercialization of Internet technologies, services, testing environments and competencies related to future internet infrastructures. From research point of view CIE

concentrates on: Ubiquitous Internet Technologies, Human-Media-Internet Interaction, Internet

Service Systems, High-growth Internet Businesses, e-Health (Oulu Wellness Institute) and Living

Labs. To access the necessary excellence CIE has wide networks to various actors in regional, national and international level to successfully execute the tasks that has been given to it.

Oulu region, OULLabs and CIE are especially interested in smart information systems (using sensor

networks, social media etc. for collecting real-time data) to support operation of various smart city,

energy, systems, mobility, e-Health, international tourism, ecological construction and 3D internet

projects. In Living Lab context we explore the possibilities to set up open innovation systems and improve the management of innovation networks to collect all the necessary expertise and to support development of new innovations.

In the near future OULLabs will offer services for research, R&D and solution developers which create innovations and services for sustainable international growth companies. 3D services (virtual environments etc.) will be State of the art in most of the living lab activities. Also User driven Innovation (UDI) will be part of the everyday work as well as pervasive expertise sharing and Lead User community services will be included to the focus areas.

The main success-factor and at the same time the biggest risk is how to keep users motivated to develop services and appliances. Do they feel that they benefit out of being part of interactive living communities in urban environment. Keeping this challenge in mind OULLabs plans to focus on

utilization of user centered knowledge and continuous renewal and development of applied practices in serving customers and consumers.

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