

**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)?

According to our research work in the past and today (e.g. DFG founded Cluster of Excellence “Integrative Production Technology in High-Wage Countries” or the BMWI founded project Med-on-@ix) we consider manufacturing and e-health as application areas for the Future Internet Platform. The Future Internet Platform enables us in the domain manufacturing to decentralize the planning and in case of virtual production the manufacturing processes in order to realize the most efficient use of resources (less power consumption, less CO₂ emissions). The Internet of Things will be the focus in the e-health scenario. Therefore not only multi modal communication must be provided by the Future Internet Platform but also the total integration of medical and auxiliary devices.

- (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.)?

Nearly all above mentioned functionalities are necessary but the focus is in the application areas of e-health and manufacturing on context awareness. In virtual production the domain crossing, handling and processing of a huge volume of data makes context awareness necessary. Another major objective is to keep the applications for the Future Internet Platform barrier-free. That means the applications must be usable under bad conditions and applicable for handicapped people

- (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?

A barrier-free access will be a core technology for the Future Internet Platform, because the accessibility of functionality will be important for the user acceptance. Context awareness is the next objective. The knowledge about the meaning of data is needed for the correct usage of the data. The data quality results out of the correct context sensitive computing in high risk scenarios like emergency medicine and power plants.

- (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?

In the virtual production scenario we would consider integration of a huge amount of applications, simulations etc. provided by universities, research institutions and companies. These programs must be applicable remotely independent from time and location.

The e-health scenario will need heterogeneous devices with or without common interfaces for integration and user organizations, emergency agencies, paramedics, fire fighters, police, hospitals etc. that will use the internet of things.

- (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?

The Center of Learning and Knowledge Management and Institute of Information Management in Mechanical Engineering, RWTH Aachen University, has experience in coordinating and completing EU projects of this scale (e.g. AsIsKnown). In the projects mentioned in the answer of question one we have shown our skills and expertise in system integration and production technology. Those will ensure an appropriate application driven approach.