

The FI-PPP INFINITY Project

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I. OBJECTIVE OF THE PRESENTATION

This presentation will explain the goals, working methodology and current status of the FI-PPP INFINITY project (INfrastructures for the Future Internet commuNITY).

II. PROJECT GOALS

A. Bringing together Users and Infrastructures

The INFINITY project is a Coordination and Support Action within the FI-PPP. Its purpose is to:

- Leverage existing investments in advanced infrastructures in Europe for testing and experimentation of novel Future Internet technologies
- Support the Core Platform by consolidating detail about existing and emerging advanced infrastructures, and help define the required Generic Enablers for seamless integration and enable new and innovative experimentation.
- Stimulate infrastructure owners to effectively “bridge the gap” between their current capabilities and Use Case requirements, thereby encouraging investment in upgrades and standards to realise these opportunities, and leading to greater sustainability.

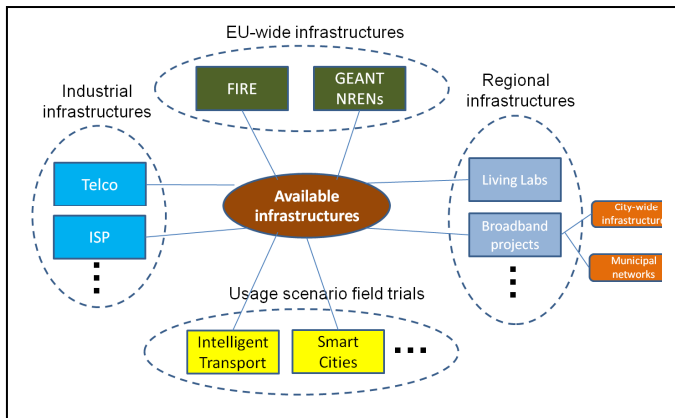


Figure 1. Some of the available European infrastructures

B. Recommendations for FI-PPP Phase 2

A “Concertation Board” of key representatives of the important public and private infrastructure stakeholders and external experts will make recommendations on how to optimise investments in European infrastructure through - in

Phase 2 of the FI-PPP process – extending and sharing the most appropriate infrastructures. This exercise should also lead to more sustainable infrastructures (being infrastructures that the Use Case projects want to use)

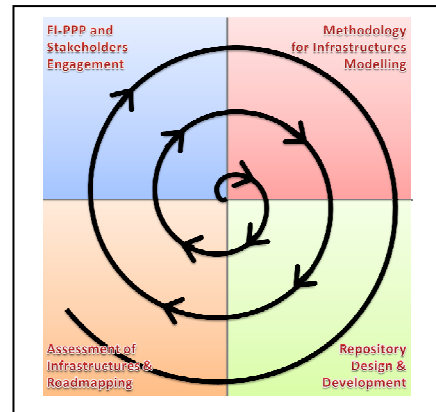


Figure 2. The INFINITY project lifecycle model

III. METHODOLOGY

The systematic approach to address the challenge follows the ‘spiral’ lifecycle model shown in Figure 2. This allows a ‘bottom-up’ infrastructure analysis to be combined with ‘top-down’ FI-PPP project requirements capture, to facilitate dialogue between infrastructure stakeholders and FI-PPP projects. The iterative nature of the model allows communication channels to be established quickly, methods and the repository to be refined and initial results to be delivered for FI-PPP Phase 2 preparation - and for these results to be refined during the early part of FI-PPP Phase 2. The number of infrastructures engaged will increase over time, and a higher level of participation from the stakeholders will be achieved through access to high quality information in the repository.

One of the first tasks is therefore to identify and categorise the many test infrastructures available in (mainly) Europe, but including some of the key Future Internet test infrastructures elsewhere in the world.

A. Input Categorisation

The input data categorisation will be performed in accordance with characteristics that will allow FI-PPP Use Case projects (and other interested parties) to discover the facilities that are most appropriate for their trials at the time. The information that needs to be collected about the

infrastructures is being specified in close collaboration with the FI-PPP Use Case projects.

B. Output Visualisation

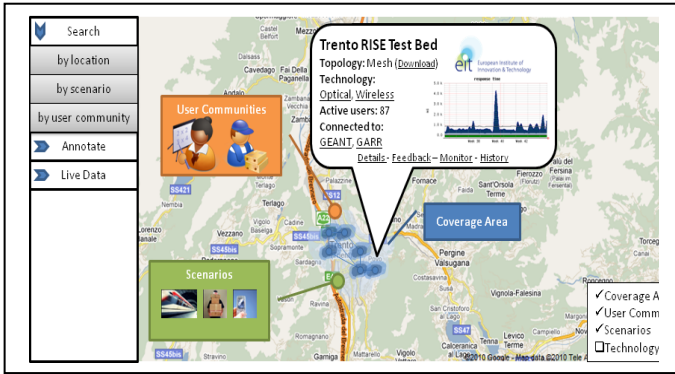


Figure 3. Visualisation of the infrastructures

The repository is based on a set of community-driven Web tools. It will be realized to promote the evolving vision of

available infrastructures "as a living organism" and have the capability to follow the dynamic evolution of the testbed infrastructures. Even live data can be represented if the testbeds allow this level of access to their information from the INFINITY project.

Users of the service will be able to search the data repository using standard criteria, or customize the search criteria themselves in order to obtain the most appropriate results for their needs.

IV. STATUS

The project started in April 2011 and has a duration of 3 years. The initial work has focused on identifying potentially attractive infrastructures (already more than 300!) and defining the methodology for cataloguing their component parts in a way that will make it feasible for users to select the one(s) that is(are) the most suitable for their particular trials.

A first "mock-up" of the repository has also been built to assess users' reactions.