Extending FIRE testbeds and tools

OpenLab fosters innovation by using sustainable, open, and shared large-scale testing facilities, enabling diversity of experimentation in various Future Internet domains.

- Bringing existing user communities to new testbeds
- Enabling cross-testbed experiments and reuse monitoring tools
- Establishing interoperability among environments at various levels
- Setting common experiment deployment, authorisation, and security procedures
- Ensuring reproducibility of experiments
- Upgrading existing infrastructures and adding mobility to wireless testbeds

OpenLab Call 1

For additional partners to execute innovative experiments

Deadline for submissions

30 November 2011

www.ict-openlab.eu/open-calls

Scope

Experimentally-driven research is a key to success in exploring the possible futures of the Internet. An open, general-purpose, shared experimental facility, both large-scale and sustainable, is essential for European industry and academia to innovate today and assess the performance of their solutions.

OpenLab brings together the essential ingredients for such a facility. It extends early prototypes of testbeds, middleware, and measurement tools to provide more efficient and flexible support for a diverse set of experimental applications and protocols. The prototypes include a set of demonstrably successful testbeds as well as associated control- and experimental-plane software and tools.

OpenLab advances these prototypes with key enhancements in the areas of mobility, wireless, monitoring, domain interconnections, and the integration of new technologies. These enhancements are transparent to existing users of each testbed, while enabling a diversity of new experiments that users can perform, extending from wired and wireless media distribution to distributed and autonomous management of new social interactions and localized services, going far beyond what can be tested on the current Internet.

Furthermore, OpenLab results will advance the goal of a unified Future Internet Research and Experimentation (FIRE) facility. Finally, OpenLab will issue open calls to users in industry and academia to submit proposals for innovative experiments using the OpenLab's technologies and testbeds, and will devote about one million Euros to funding the best of these proposals.

www.ict-openlab.eu

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OpenLab Partners

- Université Pierre et Marie Curie
- Cosmote
- Creative Systems Engineering
- Eötvös Loránd University
- ETH Zurich
- Eurescom
- Fraunhofer
- Hebrew University of Jerusalem
- IBBT
- INRIA
- National ICT Australia Limited
- Ecole de Technologie Supérieure
- Technische Universitat Berlin
- Universidad Autónoma de Madrid
- University College London
- Università di Pisa
- University of Patras
- University of Thessaly
- Waterford Institute of Technology

OpenLab is an Integrating Project under EU FP7 addressing the topic FIRE-ICT-2011.1.6, duration: September 2011 – February 2014

contact@ict-openlab.eu

Competitive Calls for additional Partners

Two competitive Calls for additional project partners will be organised in the scope of OpenLab project, seeking for new partners to carry out specific tasks within the project, in particular the execution of innovative experiments in the area of Future Internet.

One of the OpenLab project objectives is to make the infrastructure available for execution of innovative experiments by users. It is required that these users come from organisations that are not part of the project consortium. In order to select the most innovative experiments which will be executed within the project Independent evaluations of the submitted proposals will be performed in accordance with the rules of EC FP7. The proposals have to demonstrate technological expertise, scientific novelty and quality.

1st OpenLab Competitive Call for additional Project Partners

- Call identifier: OpenLab-1
- Call title: Innovative Experiments
- Language (for proposal): English
- Submission deadline: 30 November 2011, 17:00 CET
- Proposal submission is accepted only electronically.
- Full details available at: http://www.ict-openlab.eu
- Contact: Anastasius Gavras, E-mail: info@ict-openlab.eu

OpenLab Infrastructure

OpenLab integrates several testbeds, tools, control frameworks and networking technologies. It is an objective of OpenLab to enable transparent access to combinations of resources from different testbeds for advance and large scale future Internet experiments. Since not all control planes are available with all testbeds the project aims to integrate the control plane technologies, in particular observing the transparency and simplicity principle. Tools for simulation and support for collection and analysis of data support the users are also available. By default the interconnection of testbeds is done via the Internet. For other scenarios specialised solutions are available.

OpenLab

SEVENTH FRAMEWORK PROGRAMME