FIREweek Barcelona 2010

FIRE and the way forward

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European Commission - DG INFSO New Paradigms and Experimental Facilities

FIRE

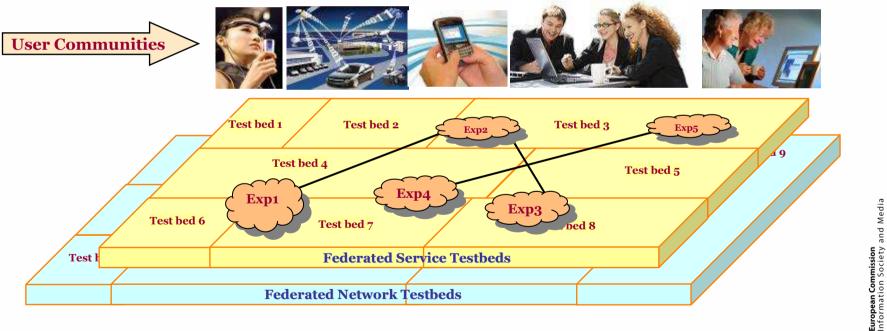
Future Internet Research & Experimentation

- Supporting research and innovation on new network and service architectures
- Predict behaviour and assess non-technical impact: economic, societal, energy, environmental

FIRE Experimental Facility

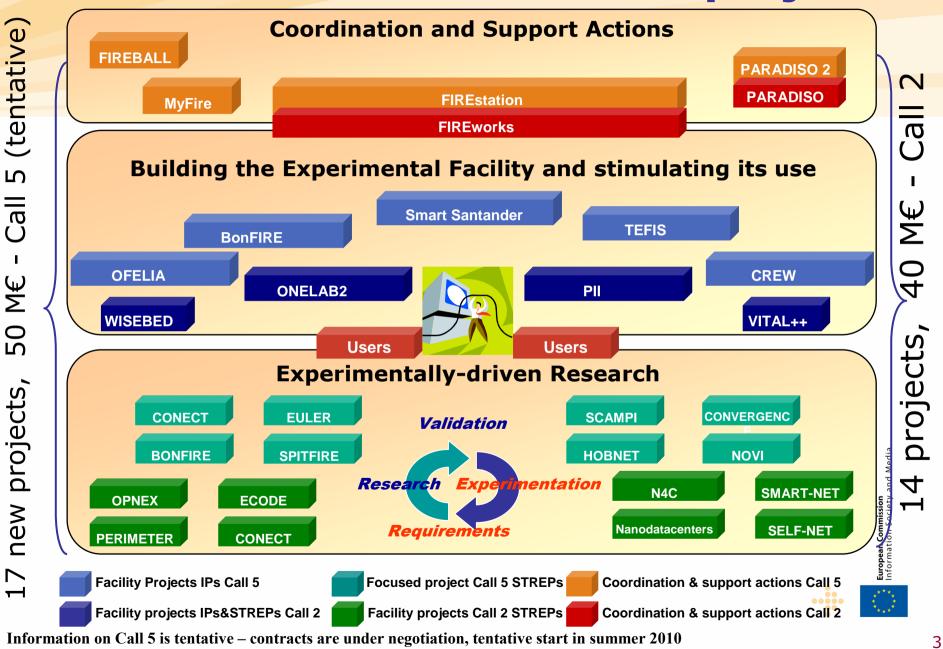


requirements



Onelab2, Federica, PII, and Wisebed are offering their prototype services

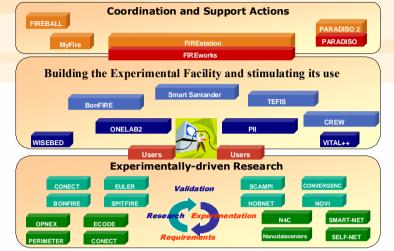




I

What is new with the 2nd wave of FIRE projects?

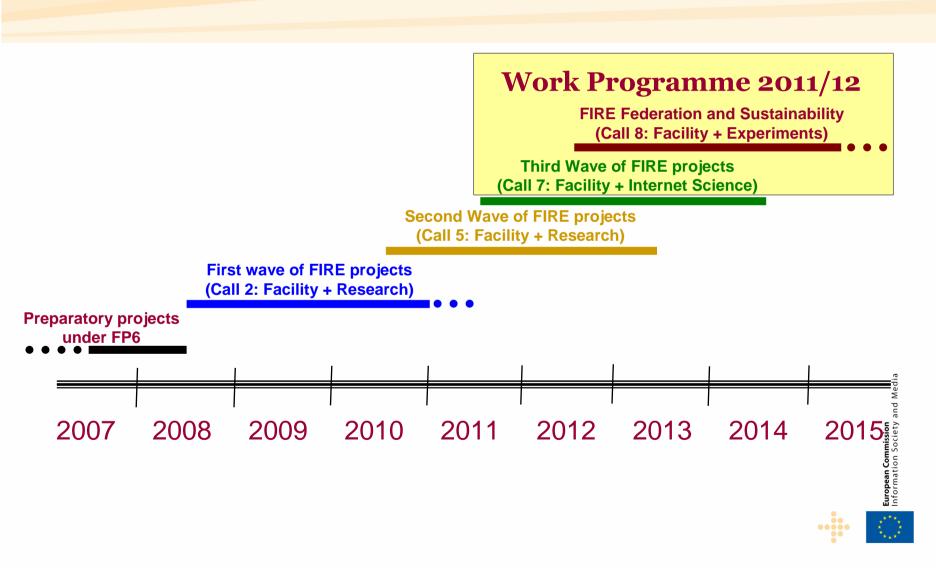
- Expanded scope related to networking and far beyond:
 - Service architectures and clouds
 - Sensor Networks
 - Networking: cognitive radio, open flow
- Increased emphasis on system level
 - Selected FIRE research projects focus on system-level testing
 - System-level testing is considered the Grand Challenge
- Support for demand-driven open federation of facilities
 - Joint architecture board moderated by FIREstation
- Improved user friendliness
 - Joint portal for first level experimenter support
 - Joint working group on issues such as user friendliness, etc.
- Massive stimulation of users/experimenters:
 - 20% of the budget in each new facility projects reserved for innovative experiments Calls by projects – mostly in 2011



and Media

European Commission Information Society

FIRE Roadmap



FIRE plans under Work Programme 2011/12

Call 7 (tentative closing January 2011)

- Maturing and expanding the FIRE Facility (**Continuity!**)
 - i. Complimentary areas
 - Extending and advancing early prototypes ii.
 - IPs only, 15 M \in (indicative < 5M \in , indicative: minimum one IP each)
- FIRE Science (**New!**)
 - Multidisciplinary NoE in holistic FI research
 - Overcome fragmentation and integrate life and human sciences
 - 5 M€

Call 8 (tentative closing January 2012)

- **FIRE Federation**
 - Implement a high level federation framework for all facilities
 - Making it self-sustainable towards 2015
 - Develop credible business models assuming decrease of EU funding
 - 1 IP, 8M€
- FIRE Experimentation
 - Challenging RTD, e.g. on holistic network and service architectures
 - Innovative usage of the FIRE facility
 - STREPs only, 15 M€ (indicative: 1 1.5 M€ per project, 24 month



FIRE Science

A multidisciplinary Network of Excellence in holistic Future Internet research to lay the foundations of an Internet Science:

- allowing a better understanding of the complex nature of Internet networks, services and applications
- allowing their design based on desirable social, economic or environmental objectives

Objectives

overcoming sectoral fragmentation creating an "internet scientist" profile

FIRE Challenges 2010 and beyond

- Prototypes of new FIRE facility projects by early 2011
- Collaboration of FIRE facility projects in Working Groups
 - Towards high level federation/collaboration/integration
 - Sharing a joint user-friendly customer portal
- Match the offer of FIRE with the demand by FI research
 - Promote system-level showcases
 - Proof the FIRE value in complex experimentation projects
- Establish bilateral federations between FIRE prototypes and with other EU national or intl. facilities and infrastructures
 - GEANT, German-Lab, GENI, JGN/AKARI, ...
- Establish the role of FIRE in the Future Internet PPP
 - FIRE infrastructure as part of the PPP experimentation infrastructure
- Derive a sustainability model for the FIRE facility

In conclusion

- FIRE is growing and maturing, more collaboration and integration to establish successful federation
- Increase numbers of users, look for business models and sustainability
- Coming FIRE calls 7 and 8 including FIRE science
- See you in Ghent 15 December for the FIRE launch followed16-17/12 FIA and in Brussels already in September for ICT



and Media



Thanks for your attention!

More information on....

http://cordis.europa.eu/fp7/ict/fire/home_en.html

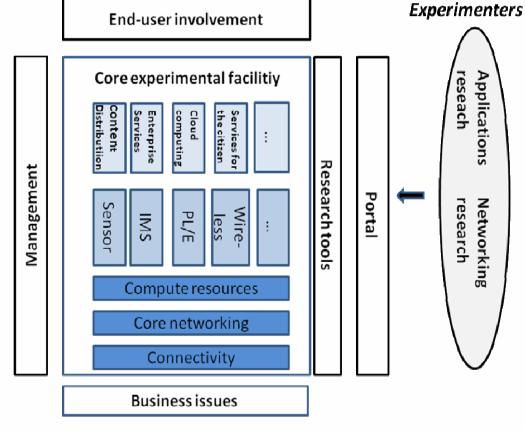
http://ec.europa.eu/information_society/activities/livinglabs/index_ en.htm

http://ec.europa.eu/information society/policy/ipv6/index en.htm

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Towards a collaboration and high level federation structure for the FIRE Facility



Published in July 2009 by the Working Group on modular federation of FIRE Facilities



European Digital Agenda

