



Future Internet Research and Experimentation – FIRE

CALL 8, Objective 1.6 (b) (c) (e)

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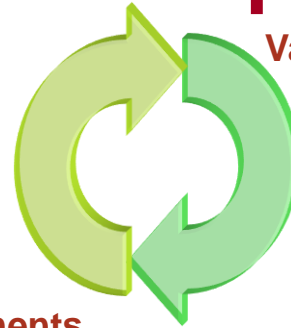
DG INFSO F4 Unit - New Infrastructure Paradigms and Experimental Facilities

FIRE:

Future Internet Research and Experimentation

FIRE Research

Long-term
Research

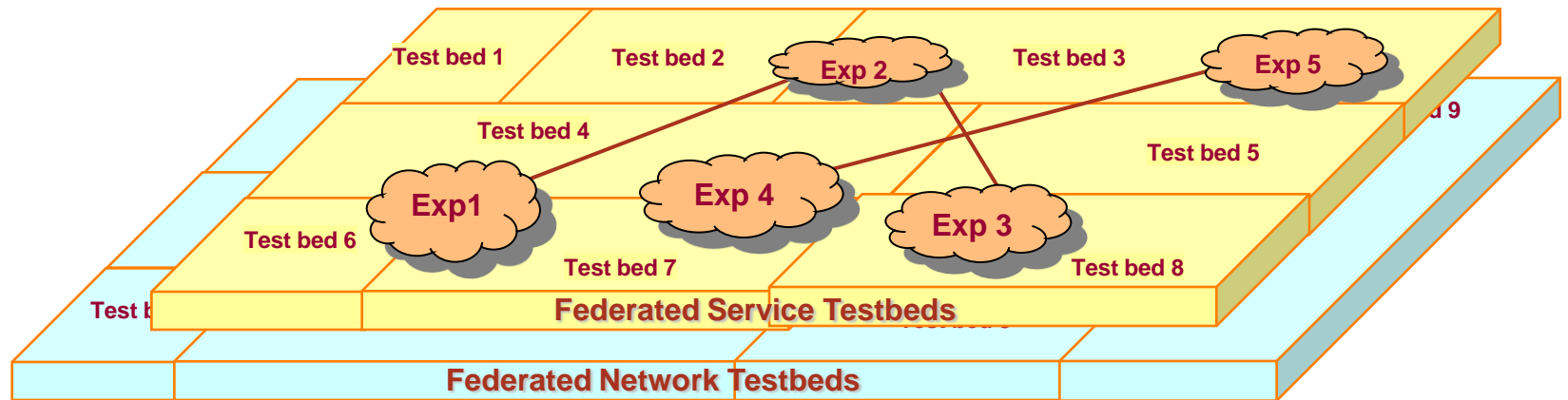


Validation

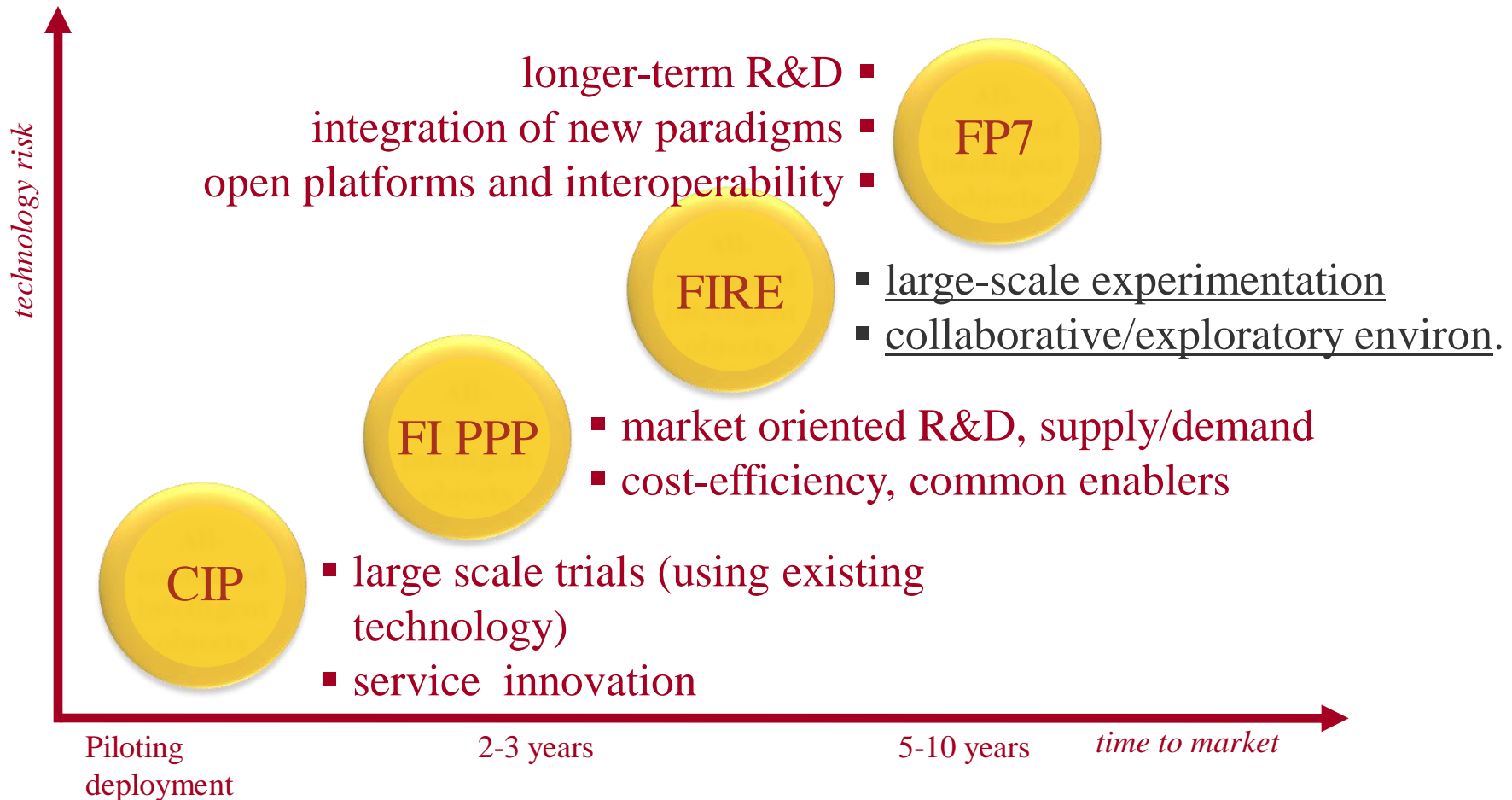
Large Scale
Experiments

Requirements

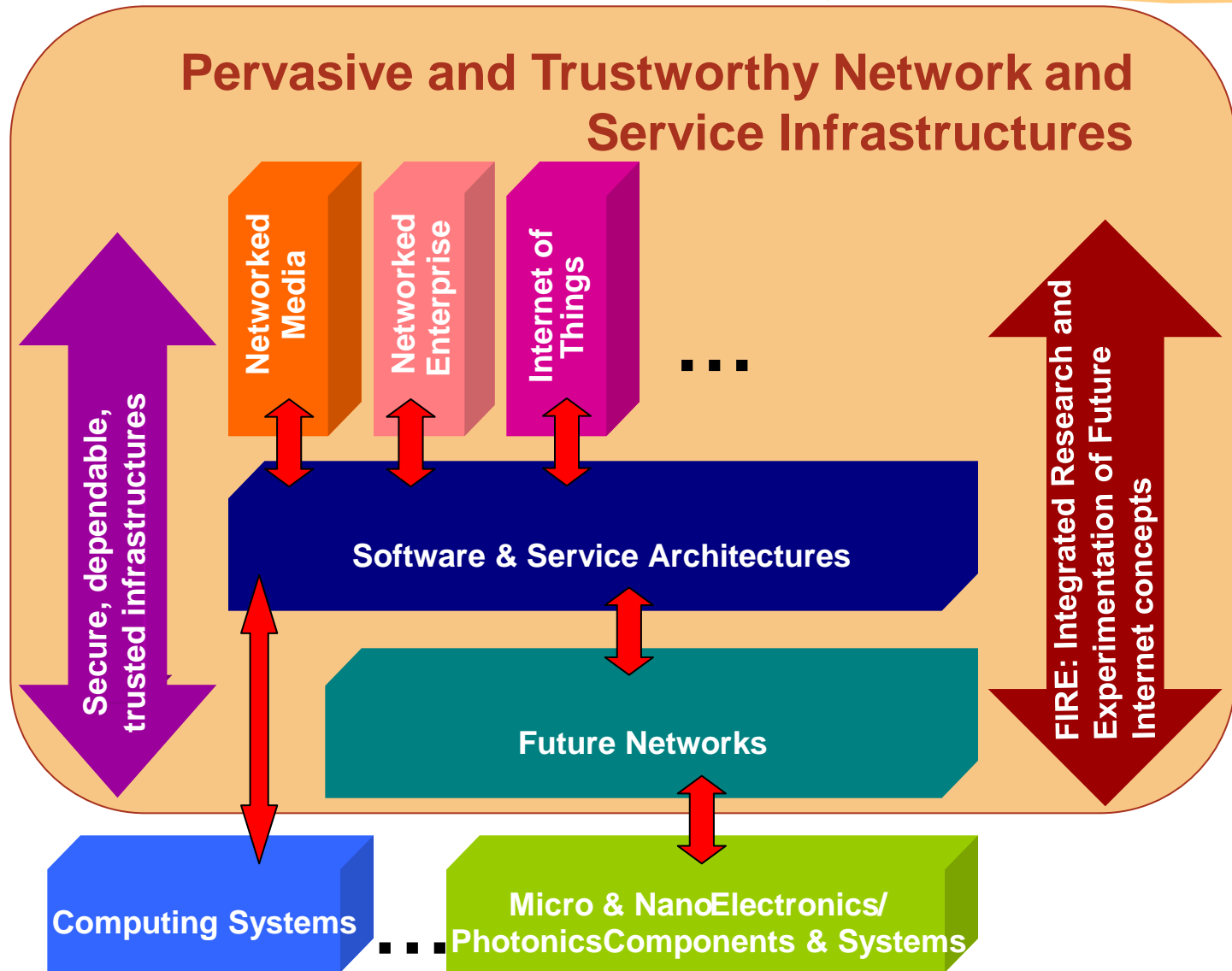
FIRE Experimental Facility



Future Internet: Comprehensive EU approach



The position of FIRE in “Challenge 1”

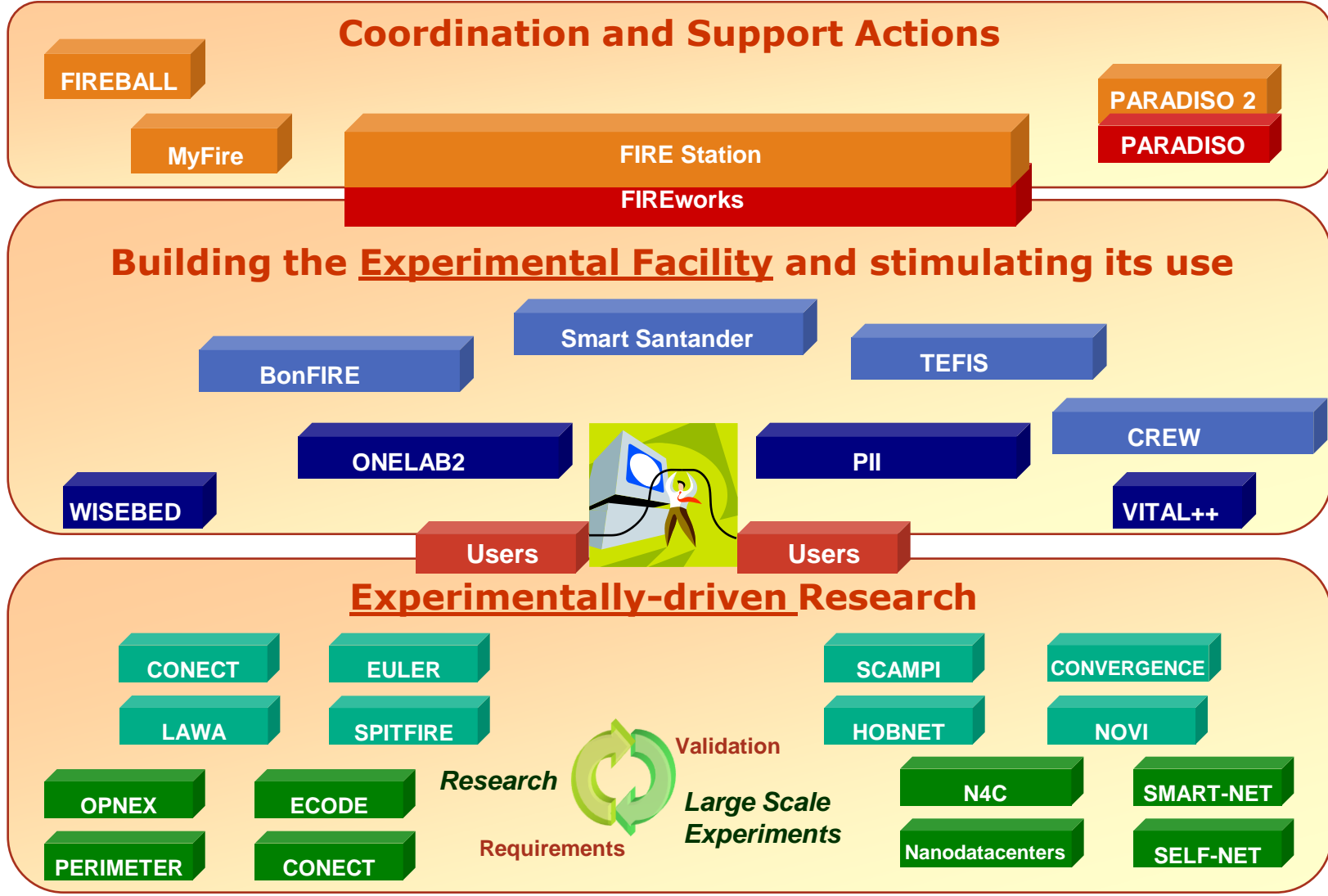


FIRE Projects – Call2 and Call5



14 projects, 40 M€ - Call 2 - 2008

17 projects, 50 M€ - Call 5-2010



- IP Facility Projects Call 5
- STREP Projects Call 5
- Coordination & support actions Call 5
- IP & STREP Facility Projects Call 2
- STREP Projects Call 2
- Coordination & support actions Call 2



- ☛ Call 7 (closed in January 2011)
 - **Maturing and expanding the FIRE Facility**
 - Complimentary areas (eg. Social Networks)
 - Extending and advancing early prototypes
 - IPs, 15M€
 - **FIRE Science (Internet Science)**
 - Multidisciplinary NoE in holistic FI research
 - Overcoming fragmentation and integrating life and human sciences
 - NoE, 5M€

- ☛ Negotiations ongoing (3 IPs, 2 EnI.EU , 1 NoE)

Facility projects and Open Calls

5 IP projects have a ready large scale facility infrastructure that can be used:

- ✓ **BONFIRE – research in the Cloud**
- ✓ **CREW – radio spectrum and measurements of wireless**
- ✓ **OFELIA – networking in Open Flow**
- ✓ **Smart Santander – Internet of Things – 20 000 nodes in one city**
- ✓ **TEFIS – research in services**

How to use the facility - Open Calls

Facility projects will launch Open Calls for experiments:

Who can participate:

- Research institutes, universities, SMEs, industry;

What are the rules:

- Similar evaluation as in EC calls;

What is the budget:

- Around 5M € - max 200K€ per experiment;

How to participate:

- Submit the proposal;
- If successful you will join the consortium with the rights like a normal partner;

What are the IPR rules:

- In each case negotiate it with facility provider. Your IP can be protected.
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Where to find more information:

- All the information are on the FIREstation web page <http://ict-fire.eu/>
- BONFIRE: <http://www.bonfire-project.eu>
- CREW: <http://www.crew-project.eu/>
- OFELIA: <http://www.fp7-ofelia.eu/>
- Smart Santander: www.smartsantander.eu
- TEFIS: <http://www.tefisproject.eu>

See also:

<http://www.ict-fire.eu/events/meetings/1st-fire-open-calls-information-day.html>

Call 8 (1.6-b): FIRE Federation

- Implement a high level federation framework for all FIRE facilities
 - Making Federation self-sustainable towards 2015
 - Develop credible business models assuming decrease of EU funding
 - Develop joint FIRE portal
 - Set common tools
 - Brokering
 - User access management
 - Measurement and performance analysis
 - Openness
 - Use of open standards and open source approaches
 - To additional testbeds and facilities
 - Standardization and certification policies
 - Use existing research infrastructures (GEANT, NREN)
 - Cooperation with EU national and international initiatives
- Indicative: 1 IP, Budget 8M€

• Call 8 (1.6-c): FIRE Experimentation

- Experimentally-driven research of Future Internet
 - Using existing FIRE facility prototypes (need clear commitment)
 - International Cooperation countries at use level is encouraged
- Visionary R&D subjects, e.g.
 - holistic network and service architectures
 - Applications with social value
 - low energy and cost solutions
- Innovative usage of the FIRE facility(-ies), e.g.
 - Large group of end-users
 - Complex system level testing
 - assessment of socio, economic, or environmental impact
 - measurements and benchmarking
- STREPs only, Indicative budget: 15 M€

Call 8 (1.6-e): FIRE Coordination and Support Action

- International and EU-wide cooperation with related stakeholders
 - Public Private Partnership on Future Internet
 - Initiatives in industrial countries / emerging economies
 - Standardization
- Exploiting synergies, developing standards, identifying socio-economic requirements, analysing impacts, and creating awareness
 - CSAs, Indicative total budget 2M€



Call 8 – FIRE Expected Impact

- Saving costs on experimentation activities
 - More diverse and larger scale testing
 - Broad end-user involvement / closer to reality
 - Exploitation of results (infrastructures, products, services)
- Improve EU Competitiveness in Future Internet
 - Integrated large scale Experimental Facility
- Broad and innovative use of Experimental Facility
 - FI projects from EU, National and Intern. programmes
- Better understanding by EU Industry / Academia
 - Internet complexity as system of systems
 - Changes at providing services and market opportunities
- Strategic capability to assess Internet evolution
 - Broad socio-economic-environmental implications
 - Considering Sustainability, privacy, openness, neutrality

Further information

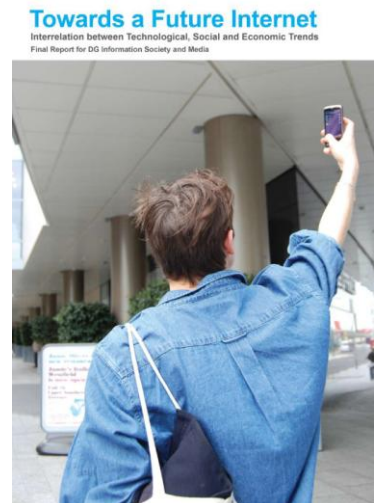
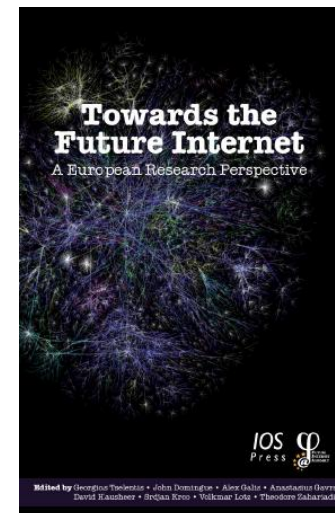
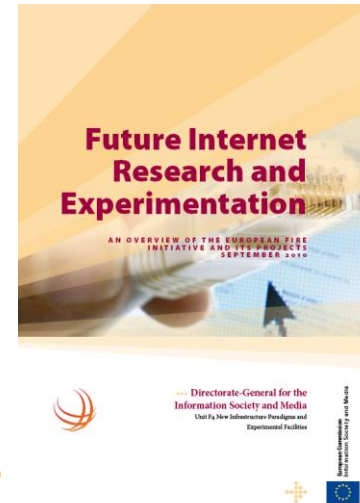


Websites:

- <http://cordis.europa.eu/fp7/ict/fire>
- <http://www.ict-fire.eu>

Publications:

- http://cordis.europa.eu/fp7/ict/fire/docs/fire-brochure-2010_en.pdf
- <http://www.booksonline.iospress.nl/Content/View.aspx?piid=16465>
- <http://www.internetfutures.eu/wp-content/uploads/2010/11/TAFI-Final-Report.pdf>
- <http://www.ict-fire.eu/home/publications.html>



Upcoming Events



<http://www.fi-budapest.eu/>



<http://ec.europa.eu/ictproposersday/>

FIRE:

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Thank you for your attention



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