ICT 13: Future Internet Experimentation- Building a European Experimental Infrastructure

FIRE priorities in H2020

- Build a Strategic Experimental Infrastructure (FIRE+)
- Experimentation-as-a-Service (EaaS) and Virtual Experimentation
- Provide
  - **More innovation, SMEs, sustainability**
  - **Controlled and replicable conditions for experiments**
  - **Real-world prototyping and experimenting environments**
  - **Seamless experimentation regardless of geography**
- Reap benefits from similar initiatives around the world

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a. Research & Innovation Actions

One very large project able to:

- **Build on federation efforts**
- **Develop a framework for selecting testbeds**
- **Continue federating the selected testbeds under FIRE+**
- **Act as broker between testbeds and experimenters**
- **Pursue the federation in a global context.**

At least 50% financial support to third parties for experimentation
In addition 20% allocated to the brokering

Available funds: 10 Mio €

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a. Research & Innovation Actions

At least one large project establishing experimental infrastructures in each of the 3 areas:

- **Management and control of cognitive radio, dynamic spectrum sharing, new spectrum band**
- **Networks integrated through SDN/NFV with demanding mobility environments e.g. connected vehicles**
- **Future Multimedia Internet services for high mobility scenarios and impact on communication and storage**.

TRL between 3 and 7

At least 50% financial support to third parties for experimentation.

Available funds: 15 Mio €

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b. Coordination and support Actions

- Future needs for large scale experimentation, roadmaps, models, vision and strategy for FIRE+
- Community building, dissemination of results, impact assessment, performance monitoring.

Available funds: 1 Mio €

Expected Impact

- Cover a variety of networking technology areas
- Experiment without physical location constraints
- Reduce the time and lift the barriers to experiment
- Respond to the needs of individual or SMEs experimenters
- Impact other application areas
- Contribute to sustainability of experimental facilities
- Contribute to standardisation and interoperability
- Foster global cooperation in experimentally-driven research

Informal Guidance

- Recommendations
  - Quality of proposals even more important in Horizon 2020
    - Weaknesses will not be negotiated but only scored during evaluation
  - Innovation aspects must be evident also in the Research & Innovation actions (100% funding)
  - Involvement of Industry partners and in particular SMEs
  - Address exploitation, dissemination and sustainability
  - Familiarize with FIRE portfolio of projects and other relevant developments, results achieved and state of the art.

European Commission

Thank you for your attention!