



ICT 12 – 2015

Integrating experiments and facilities in FIRE+

The logo for Horizon 2020, featuring a globe in the center of the word "HORIZON" and the year "2020". The background is a blue gradient with light rays and a glowing horizon line.

HORIZON 2020

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The validation of research results in large-scale, real life experimental infrastructures is essential for the design and deployment of products, applications and services on the Future Internet. There is a need for more experimentally-driven research, which can be served well on top of available infrastructures.



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Deadline: 21 April 2015 at 17:00 CET

Overall indicative budget: **13+5 M€**

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a. Research & Innovation Actions: proposals are expected to cover one or more of the themes below, but not necessarily all of them.

Proposals for the integration of experimental facilities, testbeds and laboratories into FIRE+. The resulting experimental infrastructure must be extensive, span various technologies and allow for integration on demand in response to experimenters' and users' needs.

Collaborative projects for experimentally-driven research on top of existing experimental infrastructures including necessary extensions, adaptations or reconfigurations that serve the experiments. Proposals in any of the areas under point a. of topic FIRE+ are encouraged.

At least 50% of the EU funding should be allocated to financial support to third parties (additional users, experimenters and suppliers)

Areas under point a. of topic FIRE+

Proposals in any of the following areas are encouraged: Mobile and Wireless, Cloud, Spectrum, Photonics, Internet of Things (IoT), Distributed Service Platforms, Sensors; as well as proposals allowing experimenters to manage, analyse and extract value from data acquired from sensors, mobile devices and/or online interactions in social and real networks.

Proposals with an experimentation aspect that will leverage Europe's Research and Education Network infrastructure (GÉANT). Major emphasis will be put on the integration of real-world devices across all communication layers, in order to really deliver to the end-user.

Proposals to develop the concepts of Experimentation-as-a-Service (EaaS) and Virtual Experimentation.



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b. Innovation Actions

Proposals for technically mature experiments on top of FIRE+ facilities for close-to-market products, applications or services. Proposed collaborative projects must include at least one SME and should be conducted with financial or other support and/or participation of a European or a National Agency; they must have a clear innovation and business perspective (e.g. based on new business models, including SMEs and start-ups).

Expected impact

A set of more than ten open, experimental facilities and platforms developed at European, national or regional level and integrated into a reliable, diversified experimental infrastructure, covering different aspects of advanced networking and applications. These facilities may include ecosystems and real world settings in experimental activities.

Further economies of scale in terms of infrastructure and its management by promoting the utilization of existing shared experimental facilities and platforms by experiments in this specific challenge.

Expected impact

Enabling access to FIRE facilities by SMEs; serving new constituencies and new types of innovation-oriented experimentation previously not served within FIRE+.

Promotion of innovative applications and services, close-to-market, short-term, focused, mature ideas and acceleration of technology take-up and transfer.

Questions?

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