

Research Infrastructures for All You could be Next!

e-Infrastructures - WP2016-17



DG CONNECT/C1

Information Day – Tbilissi - 11 September 2015
Horizon 2020 – Bridging Research and Innovation



Workprogramme 2014-2015 – a success:
34 projects new e-infrastructure projects will be funded

**We continue with WP2016-2017
- with a new architecture**

Underlying principles for the WP2016-2017

- *Towards e-infrastructures that are:*
 - **User centric**
 - **Service oriented**
 - **Reliable**
 - **Innovative**

Life cycle approach: the three basic decisions

- Will the development of a new research e-Infrastructure service be funded?

Will a newly developed research e-Infrastructure service be integrated in the operational platform?

- When will an existing operational service be decommissioned?

How did we build these into the WP?

The e-Infrastructure calls have 3 themes

1 - Integration and consolidation of e-infrastructure platforms supporting European policies and research and education communities

- Support Pan-European HPC infrastructure and services (PRACE)
- Data and Distributed Computing e-infrastructures for Open Science
- GÉANT Partnership projects (integration)

2 - Prototyping innovative e-infrastructure platforms and services for research and education communities, industry and citizens at large

- Platform-driven e-infrastructure innovation
- GÉANT Partnership projects (platform driven innovation)
- User-driven e-infrastructure innovation
- Interactive Computing for the Human Brain Project FET Flagship (FPA)

3 - Support to policies and international cooperation

1. Integration and consolidation of e-infra...

Research and education communities require and expect stable e-infrastructures to provide 24/7 services

- high-speed networking
 - GEANT
 - eduroam
 - eduGAIN
- high-performance and distributed computing
 - Use of best HPC and HTC resources
- research data services:
 - Access to data*
 - Preservation of data*
 - Data Management and curation*

The prerequisites for success

- **Collaboration between operators and user communities**
- **Integration of state-of the art technologies and co-design**
- **Sustainability**
- **Continued funding**
- **Continuous and reliable operation of e-RI**

2. Prototyping innovative platforms and services

Innovation topics respond to the emerging needs of the research and education communities, industry, especially SMEs and citizens.

The support to e-infrastructure innovation is the focus of two topics:

- **Platform-driven e-infrastructure innovation**
- **User-driven e-infrastructure innovation**

3. Support to policies and international cooperation

- International Co-operation on extreme scale e-infrastructure requirements (support to SKA)
- International Co-operation on e-Infrastructure supporting major societal challenges
- Policy support to e-infrastructure programme (e-IRG)
- European support to the Research Data Alliance (RDA)
- Support to ESFRI infrastructures to engage with RDA



**DATA-DRIVEN SCIENCE
THROUGH
SEAMLESS INTEROPERABILITY OF
NETWORKING, DATA AND COMPUTING**

Thank you

Preparation of the Research Infrastructure Workprogramme 2016-2017

Timeline

- September: Preparation of written procedure for the adoption
- Early Autumn: Adoption of the WP for 2016-2017
- Foreseen first publications of the calls for proposals: November-December 2015
- First foreseen deadlines for calls: March 2016