

Introduction to Call 10 e-infrastructures Infrastructures WP 2012 (FP7-Infrastructures-2012-1)

Video-Conference with LAC
20 July 2012, Brussels

Leonardo Flores Añover
European Commission - DG INFSO
GEANT & e-Infrastructures



e infrastructure



European Commission
Information Society and Media

Call overview

Line of action/Activity	Funding scheme(s)	EUR million, indicative
1.1 Support to existing research infrastructures		
1.1.1 Integrating Activities	Combination of Collaborative projects and Coordination and Support Actions (CP-CSA) The requested EU contribution shall not exceed EUR 10 million Proposals must address all the 3 categories of activities of the I3 model	30.00
1.2 Support to new research infrastructures		
1.2.2 Construction of new infrastructures (or major upgrades) – Preparatory Phase	Combination of Collaborative projects and Coordination and Support Actions (CP-CSA)	22.30
1.2.3 Construction of new infrastructures (or major upgrades) – implementation phase		20.00
1.3 Support to policy development and programme implementation		
INFRA-2012-3.1: International cooperation with the USA on common data policies and standards relevant to global research infrastructures in the environment field	Coordination and Support Actions (CSA-CA or CSA-SA)	2.00
INFRA-2012-3.2: International cooperation with the USA on a common e-infrastructure for scientific data		2.00
INFRA-2012-3.3: Coordination actions, conferences and studies supporting policy development, including international cooperation, for e-Infrastructures		14.00



1.2.3 Construction of new infrastructures (or major upgrades) – implementation phase

High Performance Computing (HPC)

- Third implementation phase of PRACE
- Piloting joint pre-commercial procurement of HPC resources (hw, sw)
- Deploying services for industrial users, including SME's, e.g. simulation, prototyping
- Scaling of applications and development of new utilities and algorithms to address major socio-economic challenges
 - Open licensing of new tools
- Broaden training and outreach activities to:
 - Engage more user communities
 - Ensure human resources in HPC

International cooperation with the USA

- **Topic 3.2: International cooperation with the USA on a common e-infrastructure for scientific data:**
 - Establish an EU-US coordination platform aiming at full interoperability of scientific data infrastructure
 - Demonstrate the coordination through several joint EU-USA prototypes -> to ensure persistent availability of data across scientific domains and national boundaries
 - Collection of requirements and approaches for standardisation, lowering access barriers, harmonisation of IP frameworks, and mechanisms for networking of experts and multidisciplinary communities
 - Joint prototypes to leverage and build upon similar initiatives in Europe and USA



Topic 3.3: Coordination actions, conferences and studies supporting policy development, including international cooperation, for e-infrastructures

- a) Developing strategies and/or establishing coordination structures, e.g.:
 - Support the European exa-scale computing communities in international efforts
 - For extremely large or highly distributed and heterogeneous scientific databases
 - Coordination between e-Infrastructure operators
- b) Feasibility studies, concepts, designs and assessments for e-infrastructures deployed in 2014-2020 in the areas:
 - Data infrastructures, cloud infrastructures based on PPP's, simulation and prototyping services to industry, software infrastructures

Coordination actions, conferences and studies (2)

c) Studies and actions for:

- Analysis and promotion of trust-building towards open scientific data e-infrastructures
- Promote future interoperability in the scientific data domain – including aspects of common standards
- Analysis and evaluation of business models for Open Science in order to achieve financial sustainability
- Promotion of open standards and interoperability for grids and clouds, and creation of frameworks for procurement of computing services for e-Science – common standards and relevant actors

d) Dissemination of results and success stories of European e-infrastructure projects / Coordination and community building for citizen-scientist with e-Science and e-infrastructures

Coordination actions, conferences and studies (3)

- e) Actions towards development of education-related e-infrastructures
 - Linking scientific repositories and research data infrastructures to learning resources for skills and curricula development for information and data scientists; online platforms for supporting student exchanges
- f) International cooperation
 - identification and synergy of development aid projects related to ICT/e-infrastructures
 - Promoting e-infrastructures of common interest to Europe and developing regions; etc.
 - Contributing to efforts in international organisations and fora supporting e-Infrastructures for global research communities



Expected impact for Topic 3.3

Support measures are expected to strengthen the development of a consistent and dynamic European policy for research infrastructures including the data produced by this infrastructure

- provide solid ground for future choices and help in decision making and deployment concerning e-Infrastructures.
- Feasibility studies should establish implementable concepts for future e-Infrastructures.
- Dissemination actions should raise the visibility of the e-Infrastructures activity towards wider audiences.
- International cooperation activities: support to efforts to develop globally connected and interoperable e-infrastructures, in particular between the EU and developing regions in the world.
 - activities related to development aid projects should provide **software tools** to support the identification and rationalisation of interventions of the different donors and other funding schemes in the targeted regions.



If you have a question...

- **Contact persons:**
 - Bernhard Fabianek (topic 1.2.3: PRACE)
 - Pekka Karp (topic 3.2: EU-USA)
 - Leonardo Flores (topic 3.3: Support actions)
 - **Krystyna Marek (overall call co-ordination)**
- **e-mail address:**
 - **INFSO-RI-CALLS@ec.europa.eu**

Connecting
the finest
minds

... Linking ideas at
the speed of light

Sharing the
best scientific
resources

... Harnessing
the unlimited power
of computers,
instruments and data

Building virtual
global research
communities

... Innovating the
scientific process



e-infrastructure

**THANKS FOR YOUR
ATTENTION!**



géant | grids | scientific data | supercomputing

