

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

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European Commission
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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...

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 - Bernhard Fabianek (topic 1.2.3: PRACE)
 - Pekka Karp (topic 3.2: EU-USA)
 - Leonardo Flores (topic 3.3: Support actions)
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Sharing the
best scientific
resources

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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



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