

INFRA-2011-1.2.1 :

e-Science environments

European Commission, DG INFSO
GÉANT & e-Infrastructure Unit



e-infrastructure

INFORMATION EVENT ON THE e-INFRASTRUCTURE 9TH CALL
BRUSSELS, 11 June 2010



Important dates

Tentative timetable

- Info day: 11.06.2010
- Call publication: 30.07.2010
- Closing date: 23.11.2010
- Evaluation: Jan 2011 – Feb 2011
- Negotiation: March-May 2011
- Projects start: as of June 2011



Objectives

- General objectives:
 - Development and deployment of e-Science environments for use by virtual research communities
 - ... fostering a service-oriented culture and approach toward the user

Objectives (1/2)

- More specifically:
 - Integrated service provision through seamless integration of the underlying networking, computing (grid and/or cloud and/or HPC) and data infrastructures
 - Design, development and deployment of user-friendly interfaces which abstract service provision from the underlying infrastructure complexities
 - Environments for virtual access to (remote) instruments as well as user-driven "composition" of virtual facilities and test-beds.



Objectives (2/2)

- Deployment of e-Science support centres and training activities (including for ESFRI communities)

All proposals should address at least two of the above four sub-topics and include pilot implementations to test the e-Science service environments and interfaces with particular user populations.

All proposals are strongly encouraged to consider:

- (a) the potential use of the developed e-Science environments by a broader user population than the scientists users themselves;
- (b) the international dimension of their activities;
- (c) the development and use of open standards and APIs to ensure openness of the e-Science environments to future applications and services;
- (d) appropriate licensing schemes for open source software.

Expected Impact

- Provision of advanced e-Science services better tailored to the user needs, supporting innovation and efficiency in the scientific discovery process
- Lower barriers to entry in e-Science environments by researchers
- Increased potential for e-Infrastructure usage by non-specialists, including "citizen scientists" and for public services



Examples of Activities

- Framework for describing scientific processes using a user-friendly graphic interface that automatically and dynamically over time reserves the necessary transmission bandwidth, computing resources (grid and/or cloud and/or HPC) and storage space
- Public cloud platform providing integrated e-Science services targeting research teams that do not have access to appropriate computing equipment
- Web 2.0 toolbox to extend access to e-Infrastructures beyond the tech-savvy users



Examples of Activities

- Application allowing non-professional researchers (citizens, school kids) to access a scientific facility from the PC at home, improving their understanding of the science done and possibly contributing to the research
- Provision of support for porting scientific applications to the most appropriate environment (e.g. grid and/or HPC) as part of a holistic training programme on e-Infrastructures



Budget & Call Information

- **Indicative budget**
EUR 27 million
- **Funding Scheme**
Combination of Collaborative projects and
Coordination and Support Actions (CP-CSA)

Contact & Further Information

- Contact
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- Further information
http://cordis.europa.eu/fp7/ict/e-infrastructure/calls_en.html

