

INFRA-2010-1.2.1: Distributed computing infrastructure (DCI)

European Commission, DG INFSO
GEANT & e-Infrastructures Unit



e-infrastructure

INFORMATION EVENT ON THE e-INFRASTRUCTURE 7TH CALL
BRUSSELS, 18 June 2009

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European Commission
Information Society and Media



Important dates

Tentative timetable

- Info day: 18.06.2009
- Call publication: 30.07.2009
- Closing date: 24.11.2009
- Evaluation: Dec 2009 – Feb 2010



Objectives

- 1.2.1.1– European Grid Initiative (EGI)
 - Set up organisation for sustainable grid services provision including user support & SW/middleware repository maintenance, operation & certification
 - Plan and prepare future service evolution of grids
 - Stakeholders: National Grid Initiatives (NGIs); possibly other entities
 - Seamless progressive transition to new EGI scheme is required
 - Promote international collaboration & interoperability; open source, standards and licensing policy are required

- 1.2.1.2 – Service deployment
 - Services for user communities that are heavy users of DCIs and have multi-national dimension
 - Activities expected to be articulated with EGI

The total indicative budget for sub-topics 1.2.1.1 and 1.2.1.2 is EUR 25 million. A single proposal is expected to be funded to cover sub-topic 1.2.1.1.



Objectives

- 1.2.1.3 – Middleware and repositories
 - Further develop quality middleware
 - Create SW-component repositories to complement middleware-services; maintenance to be ensured later by EGI

- 1.2.1.4 – Access to DCI platforms
 - Easier access to DCIs through science gateways for computing and data service; support workflows combining capacity & capability computing and access to data & networks

- 1.2.1.5 – Extension of DCI platforms
 - Extend existing DCIs to incorporate remote operation of scientific instruments (e.g. in context of ESFRI roadmap projects)

All DCI proposals are encouraged to consider the international dimension, education & training and standards. Innovation in services and technology is encouraged.



Expected Impact

Overall impact

- Broader and deeper inter-disciplinary scientific collaboration
- Coordinated, strengthened and focused software deployments in e-Infrastructures and e-Science
- Improved usability of DCI platforms in terms of users and inter-disciplinary research, also exploiting changing hardware environments
- Reinforcing the European position in software development and deployment

Regarding the EGI in particular

- Sustainable environment for the provision of grid-based computing services through a stable collaborative European and national co-funding scheme
- Easy sharing of resources (computation, storage, data) across borders to ensure the technological interoperability of global grids.
- Contribute to the realisation of the ERA



Examples of activities

- Creation of repository providing a tool box of services verified to work properly on top of middleware stacks
- Comprehensive interfaces to middleware stacks exposing subsets of features relevant to certain application types
- User-friendly environments mapping the different steps of a scientific process to the appropriate e-Infrastructure services
- Efficient data handling mechanisms in distributed computing environments
- Remote access to physical instruments as a service
- Enrich existing DCIs with novel paradigms (e.g. web 2.0, virtualisation, new licensing schemes, incentive-based models for attracting resources, etc.)



Budget & Call Information

- **Indicative budget**

EUR 50 million

- **Funding Scheme**

Combination of Collaborative projects and Coordination and Support Actions (CP-CSA)



Contact & Further Information

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

