

INFRA-2011-1.2.2 : Data infrastructures for e-Science

European Commission, DG INFSO
GEANT & e-Infrastructures 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 objective:
 - Establish a persistent and robust service infrastructure for scientific data in Europe that responds to the needs of the data-intensive Science of 2020

Objectives (1/2)

- More specifically:
 - Deployment of generic services for persistent data storage, access and management that assure data provenance, authenticity and integrity and respond to the needs of advanced user communities
 - Development of an open access, participatory infrastructure for scientific information linking peer-reviewed literature and associated data sets and collections which can be open to non-scientists and to providers of value-added services
 - Scientific community-driven policy development and service deployment for data generation, provenance, quality assessment, certification, curation, annotation, navigation and management so as to promote the sharing of data and the development of trust



Objectives (2/2)

- Development and deployment of tools and techniques for the provision of advanced data services notably for data discovery, mining, visualisation and simulation

All proposals are encouraged to:

- (a) consider the international dimension of their activities;
- (b) address education and training;
- (c) address social factors and incentives or rewards that would encourage the use of open data infrastructures by scientists;
- (d) leverage national e-Science initiatives on data;
- (e) foster the use and deployment of open standards and APIs in order to encourage value-added services by third parties;
- (f) set up help/support lines for users where appropriate;
- (g) consider appropriate licensing schemes for open source software;
- (h) address financial sustainability.



Expected Impact (1/2)

- Increased scale of federation and interoperation of data infrastructures
- Better exploitation of synergies with the underlying e-Infrastructures, reduction of costs, increase of the user base and bridging across disciplines, enabling of cross-fertilisation of scientific results and favouring of innovation
- Removal of important obstacles concerning the open access to scientific information and data



Expected Impact (2/2)

- Improvement of preparedness to face the data "tsunami" of the next decade
- Progress towards the vision of open and participatory data-intensive science
- More efficient implementation of clusters of ESFRI projects



Examples of Activities

- Integrating and deploying general ICT services and tools (e.g. by using clouds) for data storage, access, visualisation and long-term preservation to respond to the discipline-specific needs of a range of scientific communities
- Federating institutional, national or discipline repositories that are able to harvest each others' content and metadata, allowing open access for researchers and students to scientific results, both papers and supporting datasets
- Establishing a prototype e-Infrastructure to store journal articles and related datasets, using open standards for metadata exchange, location and cross-citation



Examples of Activities

- Deploying mechanisms for benchmarking the quality, resilience and reliability of repositories
- Clustering existing community-driven information and data management initiatives, in view of developing common data and metadata formats and curation procedures, enlarging the user base and crossing boundaries of disciplines
- Promoting the active use of information repositories with advanced visualisation and annotation tools, which can be of use in educational environments



Budget & Call Information

- **Indicative budget**
EUR 43 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

