



Enabling Grids for E-science

EGEE and Collaborating Projects



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Information Society
and Media



- Collaborating Projects active in FP7 time-frame
- Collaborating Projects' plans in FP7
- 16 responses == too many for individual presentations
- Only outline given here! Project summary presentations available at the session web site



- OMII-UK
- October 2005 – December 2010
- Core Strands of Work
 - Commission further work on e-Science software to ensure it meets the research community the needs of and provide sustainable ongoing support
 - Engage with the international community to define, contribute and disseminate best practice and standards.
 - Work with the research community to build integrated solutions.



- BELIEF-II (Bringing Europe's eElectronic Infrastructures to Expanding Frontiers)
- 2008 – 2009
- Goals:
 - Ensure Europe's diverse eInfrastructure projects evolve in synergy with one another to ensure common directions & efficient interaction;
 - Reinforce the relevance of Europe's eInfrastructures worldwide sustaining successful development & exploitation, specifically with e-Infrastructure collaborations between EU & Latin America, India & South Africa
 - Synchronise eInfrastructure priorities through easy to read eInfrastructure Communication Products for the public & EC;
 - Provide a unique communication platform for projects to manage their content, communicate activities to users and the public to learn more about eInfrastructures.



- **ETICS-2 (eInfrastructure for Testing, Integration and Configuration of Software)**
- **Proposal submitted**
- **Goals:**
 - support infrastructures like **EGEE** and **DEISA** to deploy **interoperable** software development processes for themselves and their users
 - support for deploying build and test services on EGEE and DEISA resources
 - integrated support for **virtualization** and **IPv6**
 - **release management** and test **workflow management** tools
 - collaborate with regional infrastructures and EGI to create a standard software validation service deployed across Europe and USA. The proposed certification model, called **GQCM** (Grid QualityCertification Model) **will be submitted to ISO** for evaluation.
- **ISSeG (Integrated Site Security for Grids)**
- **February 2006 – March 2008**
- **Not in FP7**
- **Goals:**
 - ISSeG complements Grid security by providing **recommendations** and **training** for each Grid site to improve their Site Security.
 - ISSeG is working with Site Security Officers, within EGEE's Operational Security Coordination sTeam (**OSCT**) and the Joint Security Policy Group (**JSPG**), to ensure ISSeG training and recommendations stay in line with the requirements of Grid sites.

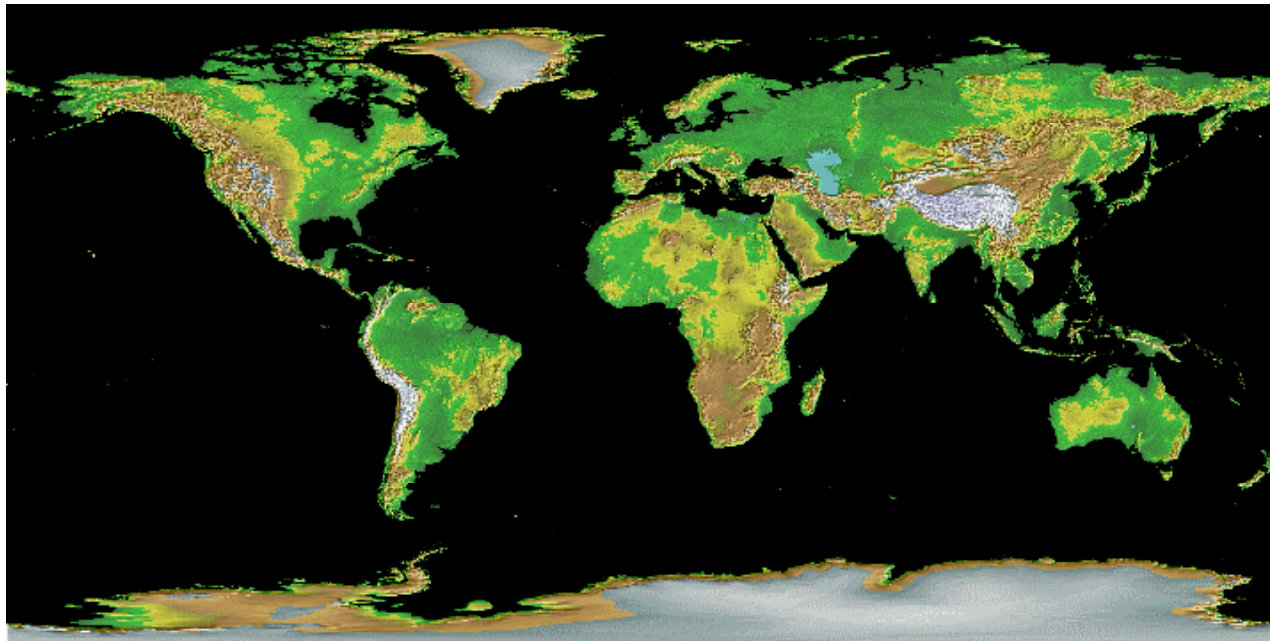


- **EDGeS: Enabling Desktop Grids for e-Science**
- 2008 – 2009
- **Goals:**
 - cater for **new user communities** through the provision of standard **APIs and Grid application development tools**
 - to extend the potential user communities for both Grids and Desktop
- **EDGeS will enable**
 - to **submit parameter sweep and master/worker type applications** from EGEE to the connected DGs
 - to submit work units from the connected DGs into the DG virtual organization of EGEE
- **int.eu.grid**
- **May 2006 – April 2008**
- **Goals**
 - **Interactive** (because researchers need answers in seconds, not in hours).
 - Grid: easy, intuitive, transparent, distributed, powerful, open
 - For e-Science: **collaboration**



- SEE-GRID-SCI

- EUChinaGrid2



- EUMedGrid2

- EELA-2

- **D4Science (DILIGENT for Science)**
 - **2008 – 2009**
 - **Goals:**
 - The project will deploy, consolidate and expand the e-Infrastructure built so far by the EGEE and DILIGENT to address the needs of new scientific communities affiliated with the broad disciplines of **Environmental Monitoring** and **Fishery Resources Management**
 - Thousands of scientists will obtain more facilities for creating **Virtual Research Environments (VREs)** based on shared computation, storage and generic service resources offered by EGEE and DILIGENT at a European level, as well as on data and domain-specific service resources offered by large international organizations.
- **DORII**
 - **2006 – 2008**
 - **Goals:**
 - Integration of **instrumentation** and selected applications with **e-Infrastructure** and maintenance on production level
 - Adaptation of e-Infrastructure across selected areas of **science** and **engineering**
 - Deployment and operation of persistent, production quality, **distributed instrumentation** integrated with e-Infrastructure
 - Generalize and deploy a framework environment that can be used for **fast prototyping**



- KnowARC
- July 2006 – August 2009
- Goals
 - to create a next-generation **Advanced Resource Connector (ARC)** middleware;
 - to promote Grid **standardisation** and interoperability;
 - to bridge the gaps between business and academia in Grid development.



- BioinfoGRID
- 2006 – 2008
- Goals:
 - The BioinfoGRID project combines **Bioinformatics** services and applications for molecular biology users with the Grid Infrastructure created by the EGEE Project
 - The BioinfoGRID project is evaluating applications in the fields of **Genomics, Proteomics, Transcriptomics, Phylogenetics** and **Molecular Dynamics**, reducing data calculation times by distributing the calculation on thousands of computers using the Grid



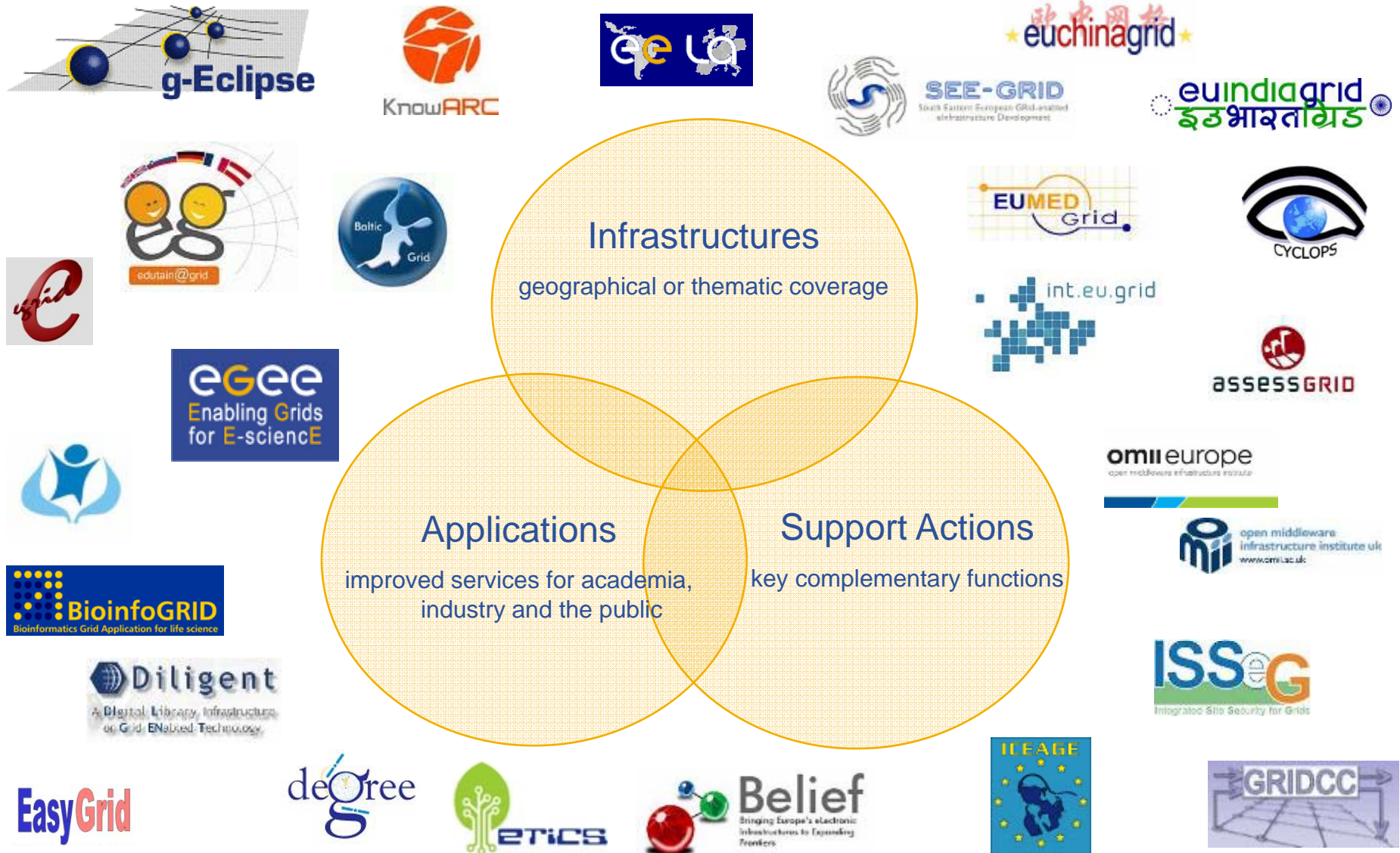
- edutain@grid
- September 2006 – August 2008
- Goals:
 - Grid powered multi-user environments with real-time interactivity through development of a Grid-based framework allowing responsive and interactive applications to exploit technology that has previously been applied to “big science”.



- DEGREE (Dissemination and Exploitation of Grids in Earth scienceE)
- June 2006 – May 2008
- Goals:
 - Disseminate, promote uptake of the Grid in wider ES community, integrate newcomers
 - Reduce the gap between ES users and Grid Technology
 - Explain and convince ES users of Grid benefits and capability to tackle new and complex problems



25 projects have registered as of September 2007: [web page](#)



- **Achievements Booklet available online at:**
 - <http://egee-technical.web.cern.ch/egee%2Dtechnical/related-projects/docs/EGEE07-RPbooklet.pdf>
- **Thank you!**

QuickTime™ and a
TIFF (LZW) decompressor
are needed to see this picture.