



Enabling Grids for E-science

EGEE-III

Status and Plans

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- **This presentation shows the latest status of the EGEE-III project planning based on:**
 - Input from PEB
 - Vision and mission document (with issues) prepared by the PEB <https://edms.cern.ch/document/791303/1>
 - Defined tasks with first manpower estimates though no division into activities has yet been made
 - Feedback received from PMB/PEB workshops held in October and December 2006

- **Contents**
 - Vision & Mission
 - Goals
 - Overall Principles
 - Issues still to be addressed
 - Consortium structure
 - Dealing with collaborating projects
 - Budget
 - Timeline and roadmap

- The main vision of EGEE-III is to make a **strong move towards a sustainable world-wide production quality Grid infrastructure** by appropriate technical and organisational decisions.
- This must be capable of **providing services to a rapidly increasing number of application areas**, and make Grid technology easily accessible and usable for these communities.
- **Issue:** how much support is EGEE expected to give to 3rd parties wrt middleware, distribution, operational support and related documentation?

- **The provision of continuous operational and deployment support**
 - with world-wide coverage which can cope with the predicted growth in sites and utilisation;
- **To establish and encourage best practices regarding security**
 - across all aspects of the project: applications, middleware, deployment and operations;
- **The provision of reliable and performative Grid middleware foundation services**
 - to users by development and maintenance services together with appropriate integration and deployment;
- **The provision of selected high level middleware support services**
 - for selected, priority application areas, with an associated integration and deployment process;
- **Collaboration with mature applications domains**
 - in particular via selected “centres of excellence”, as primary source of innovation and collaboration with user communities;

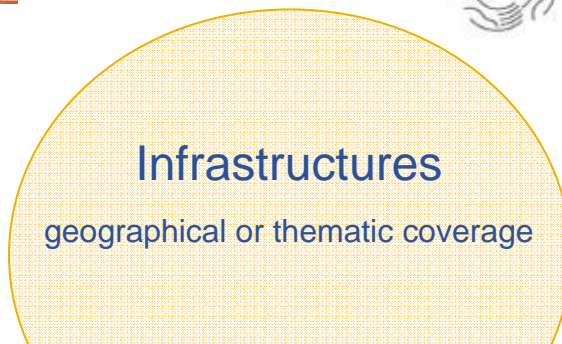
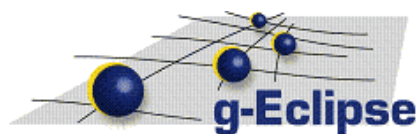
- **The provision of high quality support for VOs**
 - ranging from the mature ‘production’ VOs to the large number of new VOs entering the Grid;
 - this would include the whole range of user support encompassing training, access to documentation and information, applications support and day-to-day Grid user support;
- **Make significant advances in the transfer of Grid technology to a wide range of business communities;**
- **Enhance the distribution of information**
 - to a wide range of prospective and current users to aid the expansion of the use of Grid technology world-wide;
 - 2 aspects: marketing and technical information and support;
- **Ensure the overall world-wide coherence of the developments by ongoing work with other Grid projects, European and worldwide networking organizations, and world-wide standards organisations.**

- **Clusters of competence**
 - Avoid thinly spread manpower (shown to be ineffective);
 - Co-locate user, operations, and middleware support, training and dissemination where appropriate to increase synergies;
 - Invest in quality rather than full geographic coverage (quantity);
 - Minimum commitment of 50% for activity personnel.
- **More flexibility in tasks assignments by activity mgrs**
 - Often issues arise that were not foreseen at the time of writing the DoW;
 - Need more flexibility to assign people to these issues: encourage volunteers;
 - Partners should give more support to activity managers;
 - Could we change the management structure to better reflect the partner reality?
- **Resource assignment processes need to involve resource owners**
 - ROCs often cannot take appropriate decisions.
- **Need to agree on overall project policies from which decisions can be derived**

- **Clarify the role of National Grid Initiatives**
- **Ensure the project has a strong operational management structure that is capable of allocating resources (both computing and manpower) dynamically to address issues that arise**
- **Need to make developments in “automation” that will reduce the amount of effort required to operate/manage the infrastructure**
- **Clarify the relative weight of middleware innovation compared to its maintenance**

- **EGEE-II counts 91 contractors and 48 JRU members**
- **Need to rationalise the consortium in preparation for EGI project**
- **National Grid Initiatives will be the mainstay of EGI structure**
- **JRU mechanism used in EGEE-II can serve as a mechanism by those countries where a NGI is not yet in place**
- **JRU Workshop held in Brussels on 1st December**
 - Attended by 34 people representing 16 countries & Christophe Kowalski, financial and legal officer at DG INFSOM
 - <http://indico.cern.ch/conferenceDisplay.py?confId=8424>
 - Positive feedback from attendees on intentions to form JRUs

EGEE-III will accept only **one** public research/academic partner per EU-funded country. Those countries that have more than 1 potential public research/academic partner are invited to form a JRU and identify a single partner to sign the EGEE-III contract



Applications

improved services for academia,
industry and the public

Support Actions

key complementary functions



- **Have well defined goals and concrete targets**
 - Prefer deployment/demonstration projects rather than “paper tigers”
- **Mobilise a user community on an international level**
 - Bring together a number of groups working on a common goal
- **Identify partners that are willing to make computing resources available for the application(s)**
 - Either in a separate infrastructure or connected to EGEE
- **Can make use of service(s) from EGEE’s gLite middleware**
 - Have software expertise to be able to gridify applications
- **Identify common partners with the EGEE consortium**
 - To ensure the collaborating project has sufficient Grid expertise and act as links to EGEE

- **Expansion of the geographical scope of the infrastructure by use of EGEE operations & gLite middleware**
 - BalticGrid, EELA, EUMedGrid, SEE-GRID2
 - highest level of support (but need to create/define a ROC)
- **Interoperation with other grid programmes**
 - EUChinaGrid, EUIndiaGrid, KnowARC, DEISA, Naregi, OSG, TeraGrid
 - need to determine work involved, how it will be funded and identify user communities that bridge both projects

- **EU contribution capped at 35 Million €**
 - **INFRA-2007-1.2.3 e-Science Grid infrastructures is likely to be ~50 Million €**
- **FP7 cost models allow to charge up to 75 % of costs**
 - This could reduce the total effort available within the project
- **EGEE-III will aim at a total effort of 10,000 Person Months (compared to 11,165 for EGEE-II with ~37 Million €EU funding)**

- **16-18 Jan:** Address open issues at EGEE-II meeting (PMB+AA in Bologna)
- **26/27 Feb:** PMB Meeting for EGEE-III progress review and NGI workshop
- **April:** 1st draft of EGEE-III proposal ready

EGEE partners and participating JRU members must make known any intention to submit other proposals in the same Call as EGEE-III. Failure to notify EGEE of such proposals may cause the partner to be removed from the consortium.

- **9-11 May** EGEE-II Consortium Meeting @ user forum event in Manchester
 - Present EGEE-III plan to all EGEE-II partners
- **15-16 May** EGEE-II review:
 - EGEE-III proposal will need to take into account relevant feedback
- **July** : final draft
- **Sept** : Assume call closes for INFRA-2007-1.2.3 e-Science Grid infrastructures?
- **Nov-spring'08: hearings and contract negotiation process**
 - Produce Description of Work document
- **1 April'08:** EGEE-III start?
 - Short time to complete negotiation (exact dates of call not yet known)
 - May be in the same situation as EGEE-II: start project before contract is signed
 - Still need to consider an extension in time to EGEE-II (e.g. 2 months)

- **PEB to make initial plans concrete**
 - Define clusters of competence
 - Define technical work program and make tasks more concrete based on material produced so far
 - Get initial partner/work assignments
 - Pre-filled template will be distributed after AAM by PO
 - PEB meeting on Jan. 25th to discuss details
- **Define project-wide milestones (deliverables)**
 - ½ day PEB workshop in February (proposed: Feb 22)
 - First concrete plans need to be available for that – Feb 20.
- **Further refinements during March**