



Enabling Grids for E-science

## Status of the Project

*Bob Jones, Project Director, CERN*

*EGEE 2<sup>nd</sup> EU review*

*6-7/12/2005*

[www.eu-egee.org](http://www.eu-egee.org)



- **General Status of the project, providing an overview of:**
  - Review Agenda
  - Project Achievements
  - Management Structure
  - Deliverables/milestones, contract status
  - Project-wide issues
  - Financial status
  - Manpower levels
  - Plans until the end of the project

## Tuesday

**Status of the project** – *Bob Jones*  
**Technical Coordination** – *Erwin Laure*

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**DATAMAT** – *Federico Rossi/Stefano Beco*  
**Grid operations** – *Ian Bird*

**Security** – *Ake Edlund*  
**Training** – *David Fergusson*  
**Applications** – *Vincent Breton*

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**Demos** – *Marc-Eliañ Begin, Ignacio Blanquet, Ladislav Hluchy, Viet Tran*  
**Networking** – *Kostas Kavoussanakis*

## Wednesday

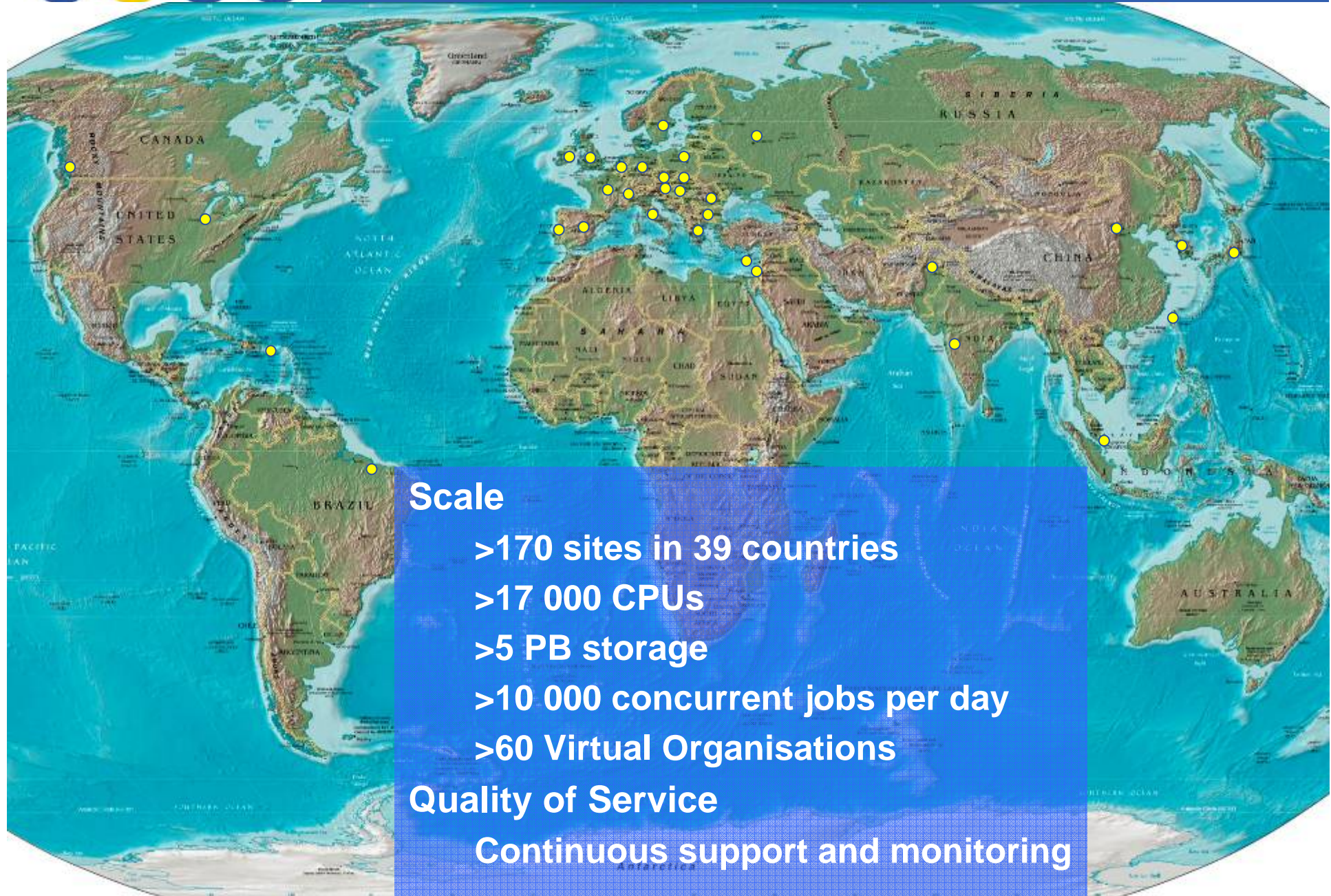
**Middleware** – *Frédéric Hemmer*  
**Software Quality** – *Alberto Di Meglio*  
**Quality Assurance** – *Gabriel Zaquine*

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**Dissemination** – *Joanne Barnett*  
**Policy & Collab.** – *Fotis Karayannis*  
**Future Plans** – *Dieter Kranzlmüller*  
**Conclusions** – *Bob Jones*

**Closed session**

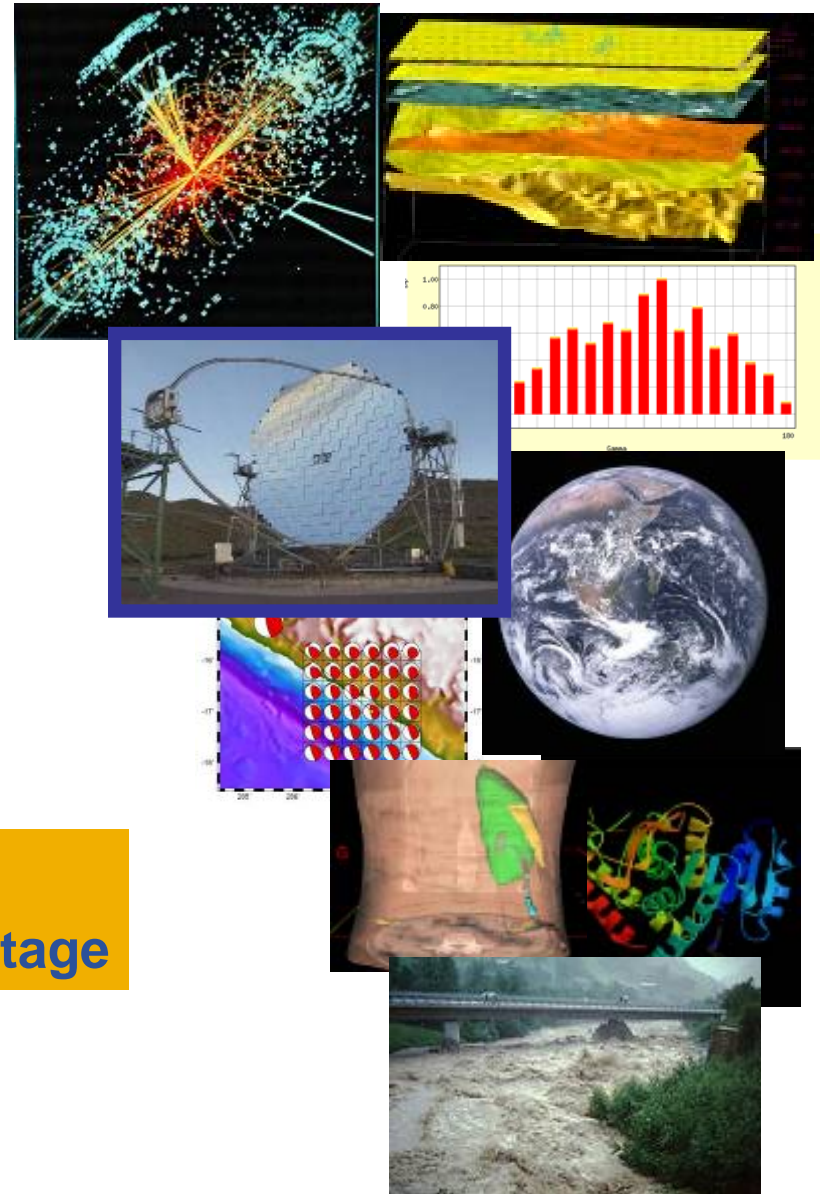
**Feedback from reviewers**



## >20 applications from 7 domains

- High Energy Physics
- Biomedicine
- Earth Sciences
- Computational Chemistry
- Astronomy
- Geo-Physics
- Financial Simulation

**Another 8 applications from 4 domains are in evaluation stage**



## Now at gLite release 1.4

- Focus on basic services, easy installation and management
- Industry friendly open source license
- Several gLite components already in production usage
- Roadmap established for full deployment and usage



- Activity success stories published
- Appeal of material greatly improved
- EGEE presented and promoted at over 300 events
- Project Conferences are now seen as key European grid events that bring together many projects
- Strengthened links with industry



- Many training events arranged around the world for users, application developers and site managers
- eLearning environment demonstrated



- **Operational interface between EGEE and Networks (GÉANT2/NRENs) with trails performed**
- **End-to-end Service Level Agreement (SLAs) defined**
- **Network Performance Monitoring (NPM) standard interface developed and adopted**
- **Bandwidth Allocation and Reservation architecture defined and interfaces implemented**

**Unique collaboration with GÉANT2**





## Active across all activities

- **Quality Assurance**

- Detailed analysis of operations and middleware has been performed and used to improve the services, middleware and processes
- The Metrics programme is in active use in all activities and periodically refined

- **Security**

- Support for security related software modules in gLite
- Successful work of Security groups (policy & middleware) on security infrastructure with other projects
- EUGridPMA leading partner in the establishment and first chair of International Grid Trust Federation (IGTF)
- Assessment of accounting infrastructure and analysis of what is missing to provide secure quota-based resource access

- **International cooperation activities:**

- Support to the e-Infrastructures Reflection Group (e-IRG) defining grid policies across Europe and beyond
- “Concertation” with other EU projects
  - Participated and contributed to many concertation-type events
  - Working groups
  - Joint deliverables & events (DEISA, DILIGENT) and Letters of Support for IST projects
- Reinforced cooperation with other geographical areas (in middleware, operations, training and dissemination)
  - Australia, China, India, Japan, South Korea, Taipei, USA

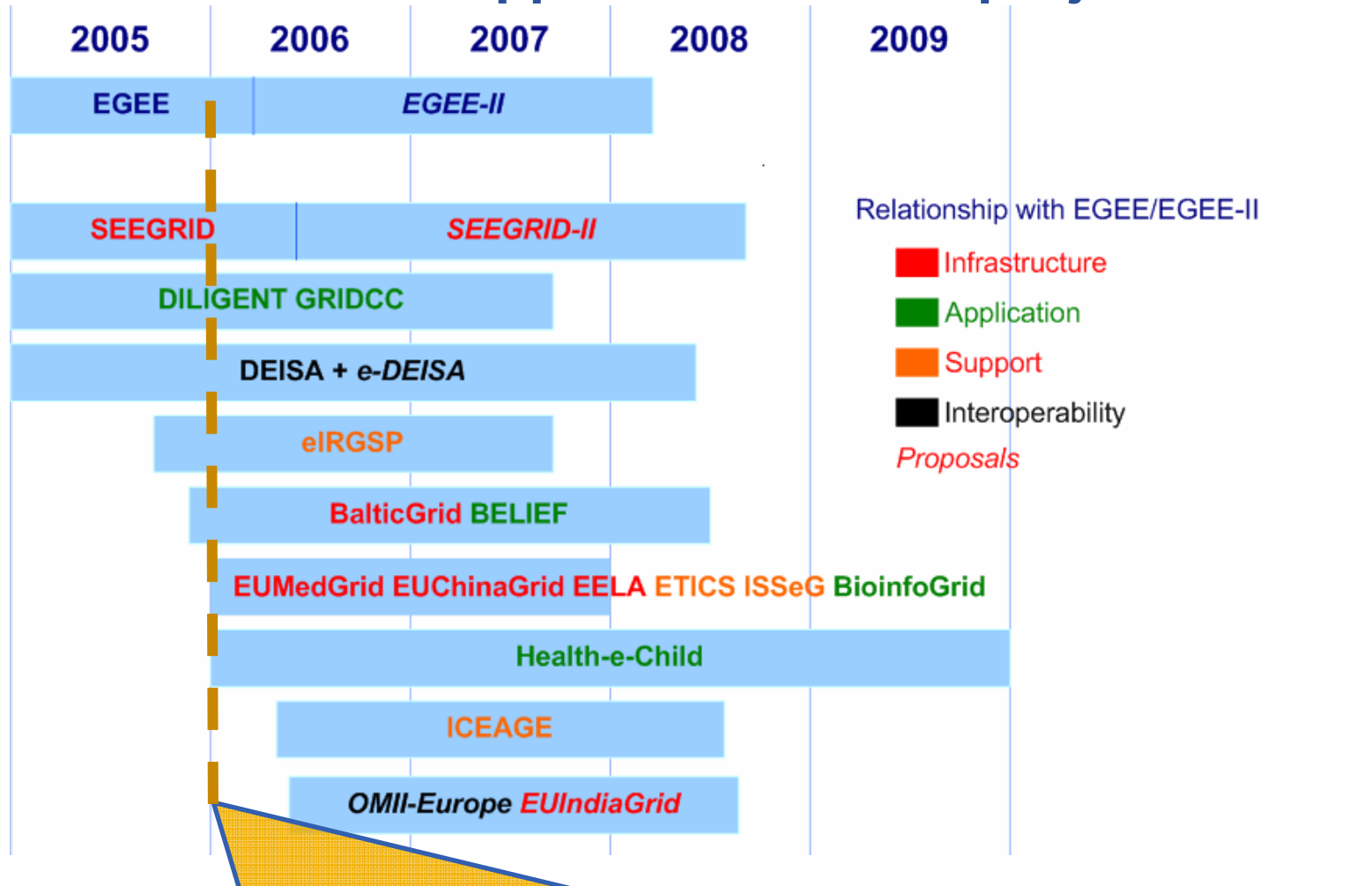


- **Standards activities**

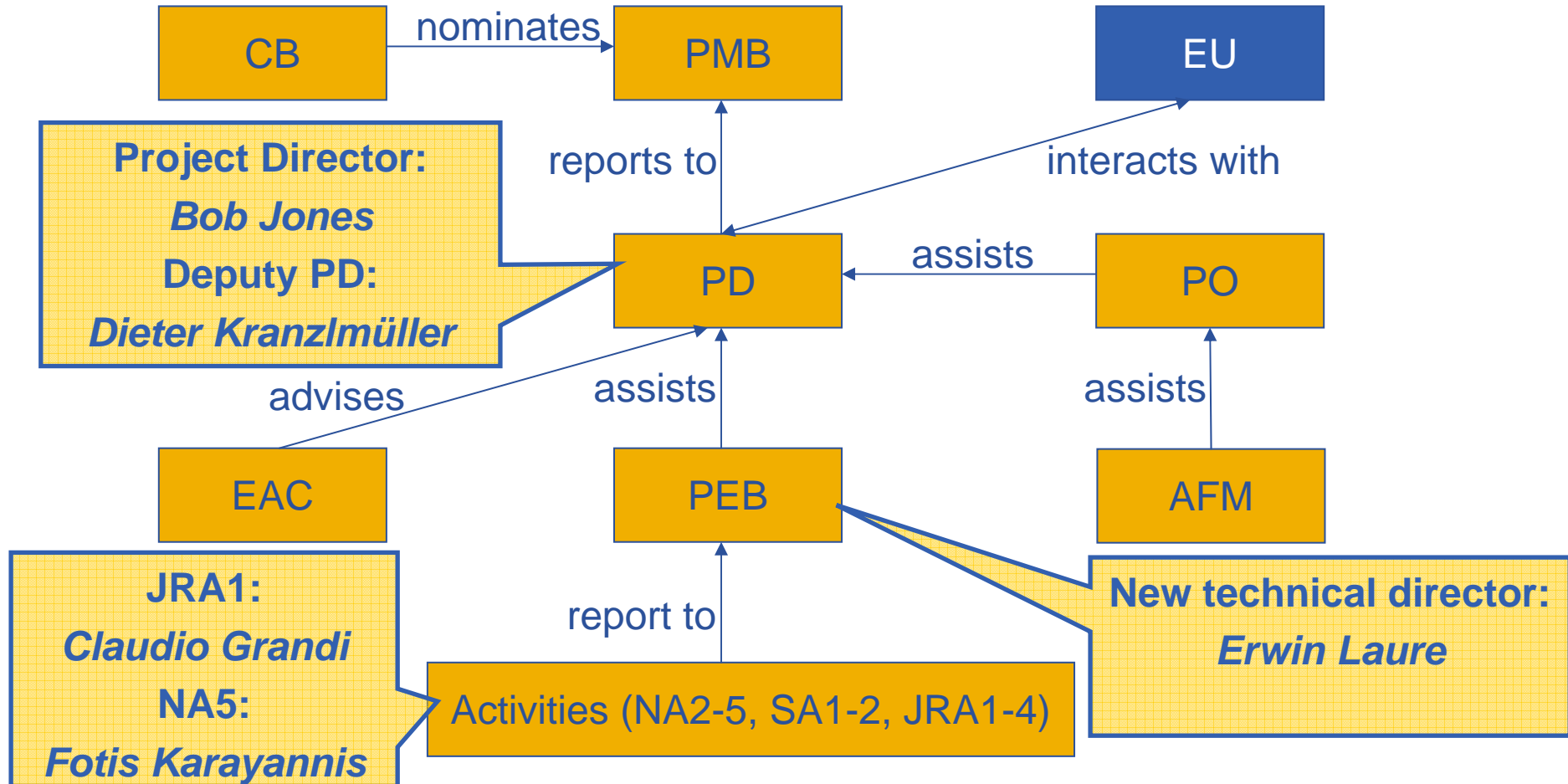
- EGEE members actively contribute to 11 GGF working groups and hold important leadership roles as area managers and security (IGTF)



## EGEE as incubator & supporter of related projects



Heavy load on EGEE to help with the start-up of these projects



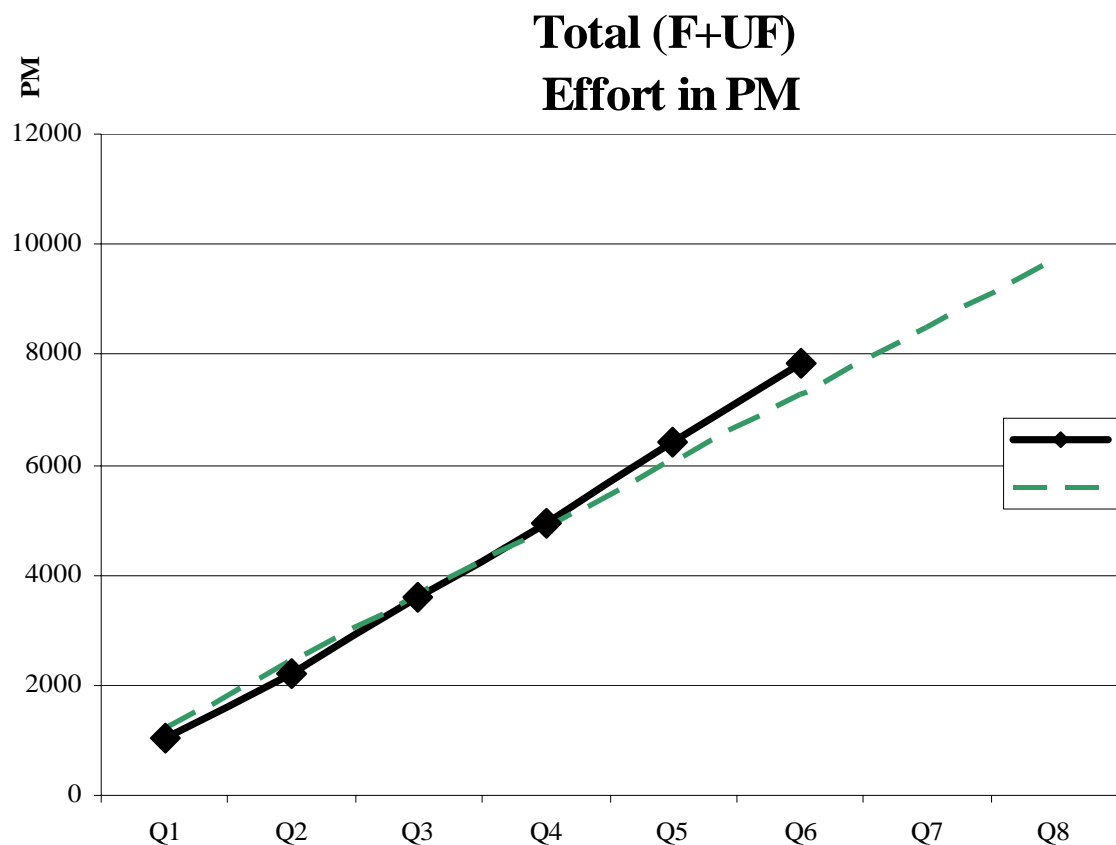
AFM Admin. Federation Meeting  
 CB Collaboration Board  
 EAC External Advisory Committee  
 EU European Union

PD Project Director  
 PEB Project Executive Board  
 PMB Project management Board  
 PO Project Office

- **All 36 deliverables/milestones PM10-18 done**
  - Submitted to internal review process before delivery to EU
  - The rationalization of the reporting process recommended at the 1st EU review will have an effect on the 7th and 8th quarters
    - A number of deliverables have been combined and scheduled to maximize their impact
- **Second contract amendment accepted in July 2005**
  - Updated plans for the remaining 15 months of the project
  - Modification of the reporting periods & payment modalities
  - Confirmation of seven Joint Research Units
- **Follow up of the first review and response to recommendations by the reviewers**
  - Included in reviewers' pack

- **An internal cost claim exercise took place at the end of the 6<sup>th</sup> quarter (project month 18) - the estimated requested contribution for the consortium is 22 M€**
  - Approx. 91% of costs are personnel, 7% are travel, 2% materials and audit certificates
  - This represents 69% of the EU maximum contribution (31.867 M€)
- **An extrapolation to the end of the project indicates ~98% budget consumption**
  - Minor reallocations are planned until the end of the project (see later)

- Further refined PPT tool to monitor project effort consumption (timesheets)
  - Over 1000 people registered across Europe and Russia
  - Total equivalent of ~ 436 FTEs



**Legend:**

- F: Funded
- U: Unfunded
- PM: Person Months
- FTE: Full time equiv.

Consumed Effort		
Funded	Unfunded	Total
80%	90%	82%

- **Reallocation of effort**

- Middleware testing effort has increased since first review but is still less than needed
- Suggest to reassign unspent effort of a few partners already active in SA1 to help with testing tasks taking into account the financial status and extrapolation presented earlier

- **Staff retention**

- EGEE was foreseen as part of a 4 year programme
- EGEE-II submitted in September with hearing held in November
- Expect to be invited for negotiations shortly
- Must have start date of 1<sup>st</sup> April to ensure continuation and staff retention
  - some staff have already resigned



- **Ensure that:**
  - Final deliverables and milestones (PM19 – PM24) are of high quality and delivered on time
  - Preparation of book closing, final financial and effort reporting
  - Continue to encourage & assist the development of related projects
  - Ensure plans for follow-on phase are completed
    - Timeliness is important for staff retention
  - Preparation of the final EU review in May 2006
    - Need to fix dates avoiding important grid events (e.g. IST-Africa, GGF17, GridAsia, Terena conference etc.)
    - Propose week of 22<sup>nd</sup> May

- **EGEE is THE largest multi-disciplinary research grid infrastructure in the world**
- **EGEE has lead the way in building a consistent European view of grid infrastructure via a number of related projects and international collaborations**
- **Proposal for a second phase (EGEE-II) on-track**
  - Long-term sustainability discussed tomorrow

