



Enabling Grids for E-science

# Plan until the end of the project and beyond, sustainability plans

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*EGEE Second EU Review*  
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[www.eu-egee.org](http://www.eu-egee.org)

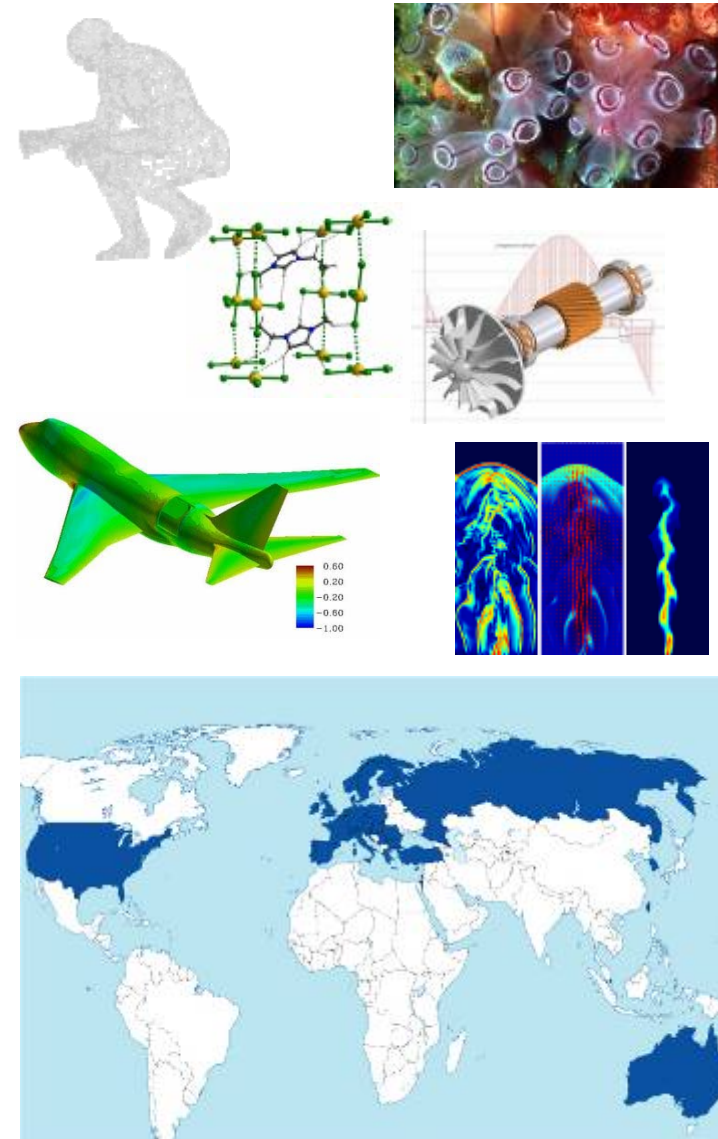


Month	Ref	Description
19	MJRA1.7	Software for second release candidate available
19 (22)	DSA1.5&7	EGEE Infrastructure Planning Guide (“cook-book”)
20	MJRA1.8	Release Candidate 2 enters testing and validation period
21	DJRA1.6	Software and associated documentation (Release Candidate 2)
21 (24)	MJRA3.8&10	Security operational procedures (2 <sup>nd</sup> & 3 <sup>rd</sup> review)
21	DJRA4.4	Implementation of single-domain bandwidth management service
21	DJRA4.5	Service to supply network performance monitoring and service brokering middleware
21	DNA1.1.7	Quarterly periodic report
21 (24)	DNA1.4	Report on Gender Action Plan
21 (24)	DNA2.7 & MNA2.6	Final Dissemination & Exploitation Report
21 (24)	DNA3.3.3 & MNA3.4	Training Progress Report
21	DNA5.1.4	e-Infrastructure Monitoring
21 (24)	MSA1.5	Expanded list of production Grid (Resource Centres) operational
21 (24)	DSA1.9	Release Candidate 2 production Grid infrastructure
22 (24)	DSA2.3	Release Candidate 2 production Grid infrastructure
22 (24)	DJRA2.3	Release Candidate 2 production Grid infrastructure status, incl. software and Grid operations
22 (24)	DJRA3.4	Release Candidate 2 production Grid infrastructure report
23 (24)	DJRA1.7	Release Candidate 2 production Grid infrastructure re-engineering
23 (24)	DJRA4.6	Release Candidate 2 production Grid infrastructure allocation and reservation
23 (24)	DJRA4.7	Release Candidate 2 production Grid infrastructure monitoring
23 (24)	DNA4.4 & DNA4.5	Release Candidate 2 production Grid infrastructure MNA4 with revision of Application Migration Progress report
23 (24)	DNA5.5	Release Candidate 2 production Grid infrastructure progress report on International Cooperation Activities
23 (24)	DSA1.8	Release Candidate 2 production Grid infrastructure operation; outline of sustained operation
24	DNA1.1.8	Quarterly periodic report
24	MNA1.3	Successful completion of third and final review
24	DNA1.3.2 & DNA1.3	Periodical report
24	MNA4.4	Successful completion of third and final review

**Documentation & Software Releases**

**27 deliverables/milestones**

- **EGEE-II proposal submitted to the EU**
  - On 8 September 2005
  - Proposed start 1 April 2006
  
- **Natural continuation of EGEE**
  - Emphasis on providing an infrastructure for e-Science
    - increased support for applications
    - increased multidisciplinary Grid infrastructure
    - more involvement from Industry
  - Expanded consortium
    - > 90 partners in 32 countries (Non-European partners in USA, Korea and Taiwan)
    - related projects
  
- **World-wide Grid infrastructure**
- **Increased international collaboration**



- **Aim of EGEE:**

*“to establish a seamless European Grid infrastructure for the support of the European Research Area (ERA)”*

- **Achievements of EGEE:**

- Exceeding almost all final goals
- Scope expanded beyond Europe



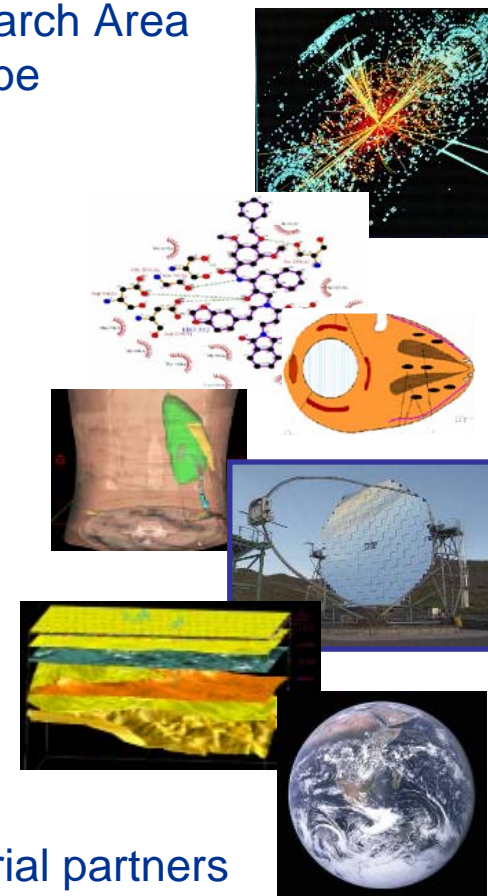
- **Transition EGEE → EGEE-II**

- Four-year plan
- Services continuously available
- Adjustments and streamlining (SA3, TCG, ...)

- **EGEE-II start:**

- Full capacity from day one
- Large-scale, production-quality infrastructure
- Supporting a wide range of applications
- Staff with extensive knowledge of Grid technology

- **Infrastructure**
  - Manage and operate production Grid for European Research Area
  - Interoperate with e-Infrastructure projects around the globe
  - Contribute to Grid standardisation efforts
  
- **Support applications from diverse communities**
  - High Energy Physics
  - Biomedicine
  - Earth Sciences
  - Astrophysics
  - Computational Chemistry
  - **Fusion**
  - Geophysics (incl. industrial application EGEODE)
  - Finance, Multimedia
  - ...
  
- **Industry**
  - Reinforce links with the full spectrum of interested industrial partners
  
- + **Disseminate knowledge about the Grid through training**
- + **Prepare for sustainable European Grid Infrastructure**





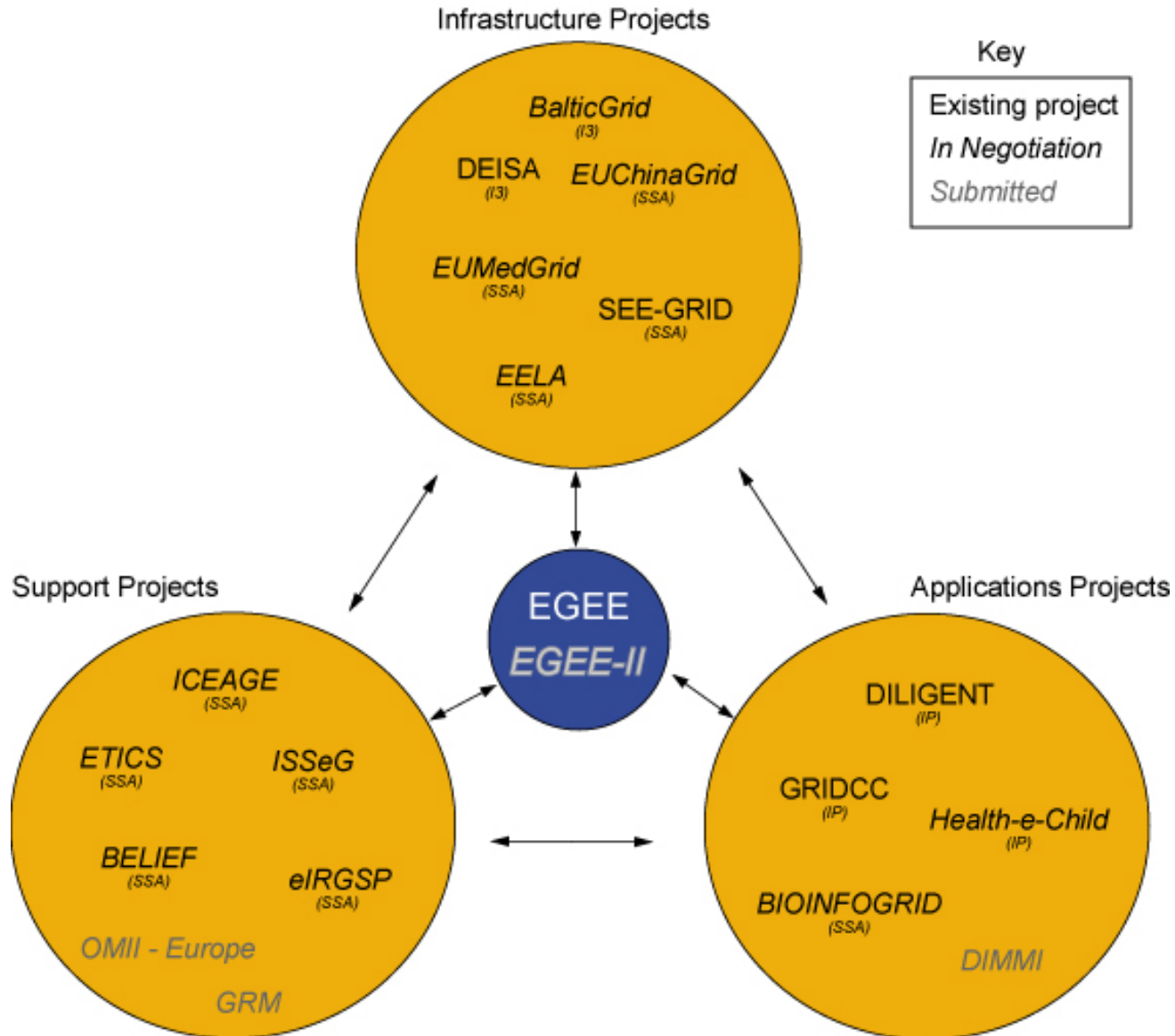
- More than 90 partners
- 32 countries
- 12 federations
- ➔ Major and national Grid projects in Europe, USA, Asia

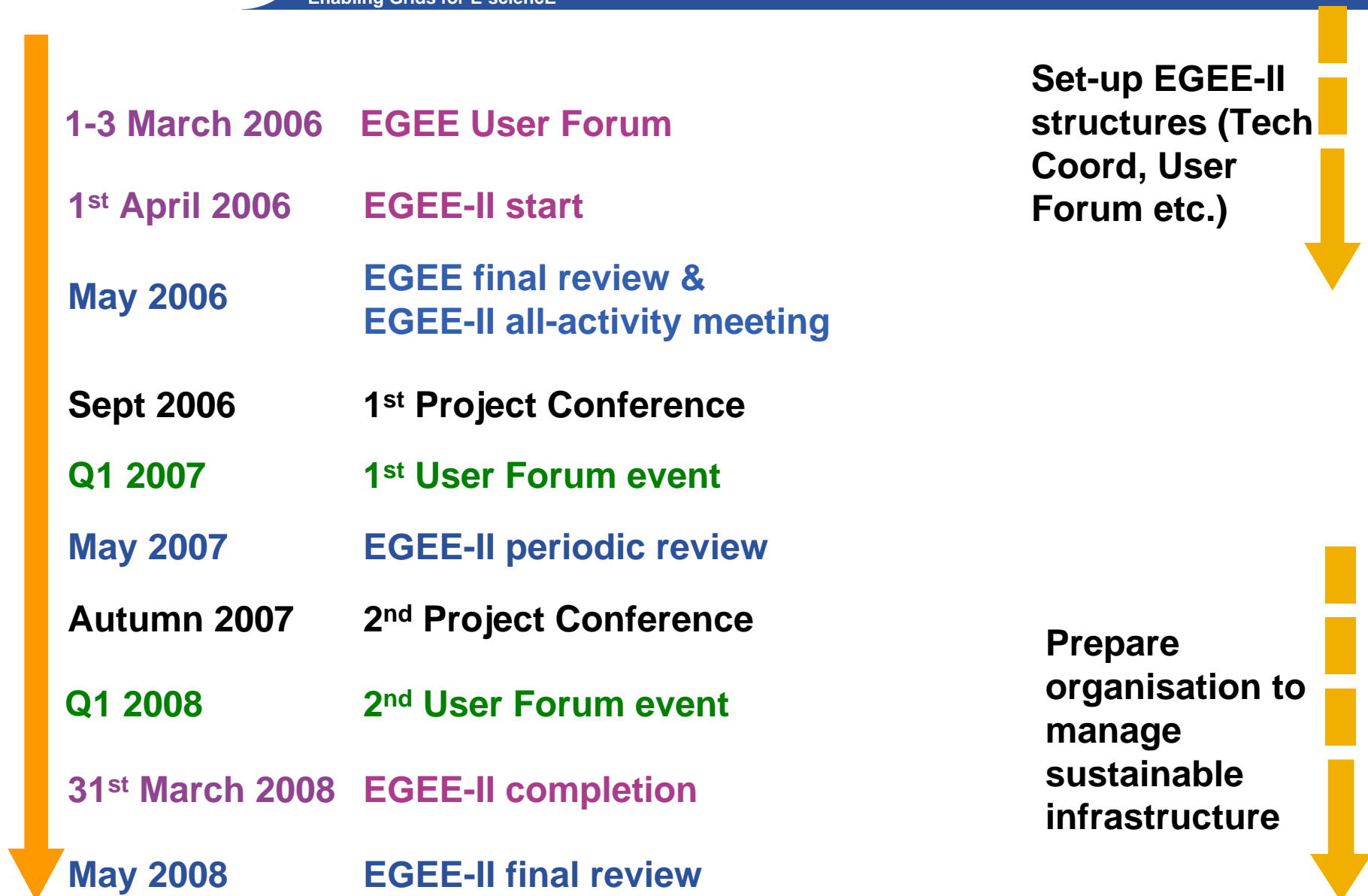


**+ 27 countries through related projects:**

- BalticGrid
- SEE-GRID
- EUMedGrid
- EUChinaGrid
- EELA

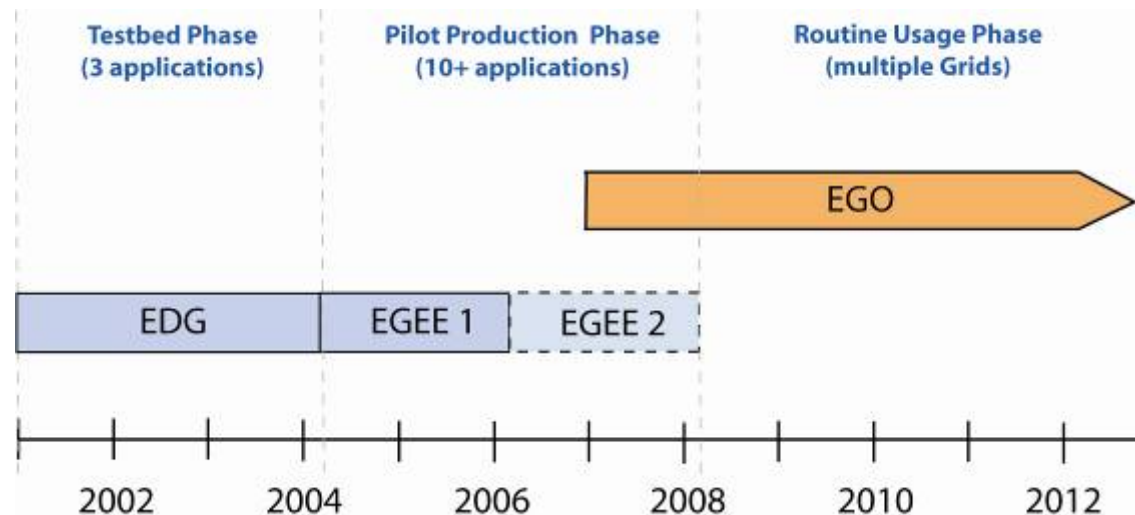






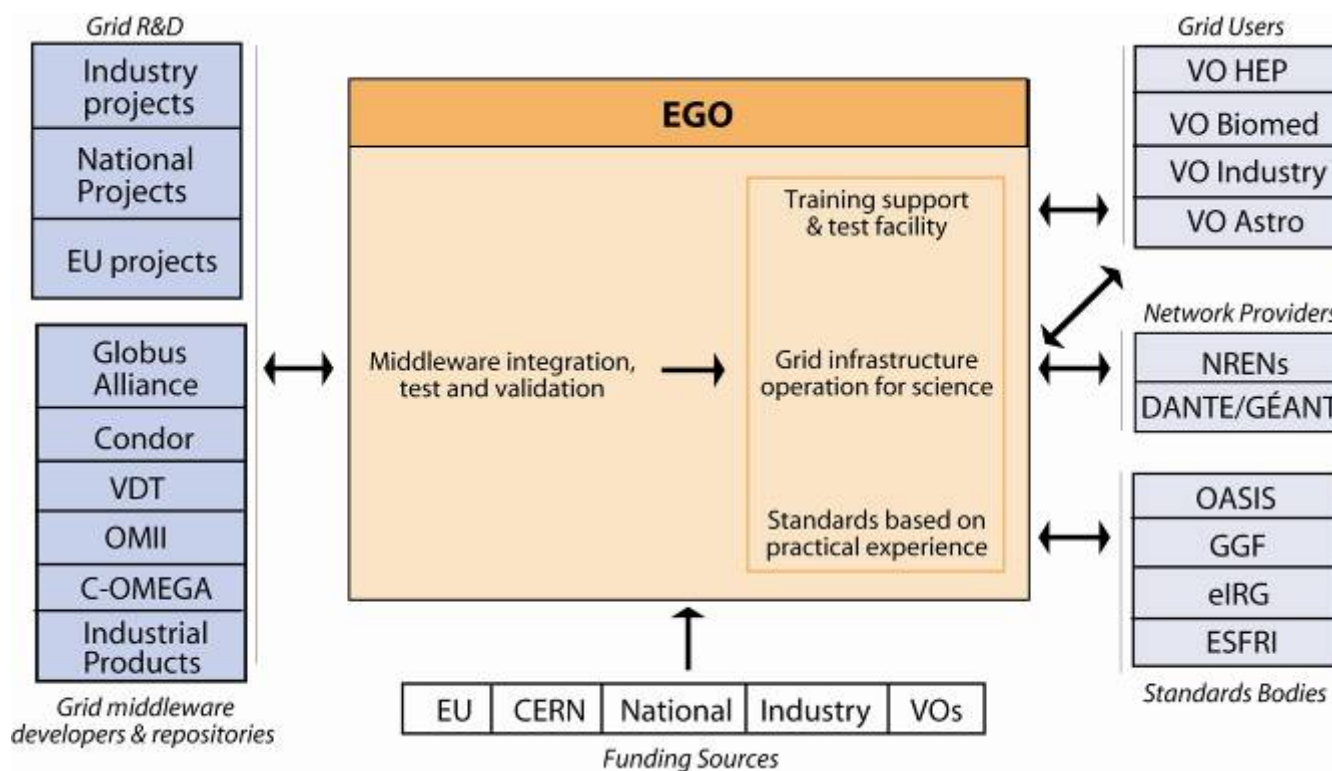


- **Need to prepare for permanent Grid infrastructure**
  - Maintain Europe’s leading position in global science Grids
  - Ensure a reliable and adaptive support for all sciences
  - Independent of project funding cycles
  - Modelled on success of GÉANT
    - Infrastructure managed centrally in collaboration with national bodies (in EGEE-II: JRU’s)
- **Proposal: European Grid Organisation (EGO)**



## Objectives

- Operate production Grid infrastructures for all sciences
- Integrate, test, validate and package Grid middleware
- Provide advice, training and support to new user communities



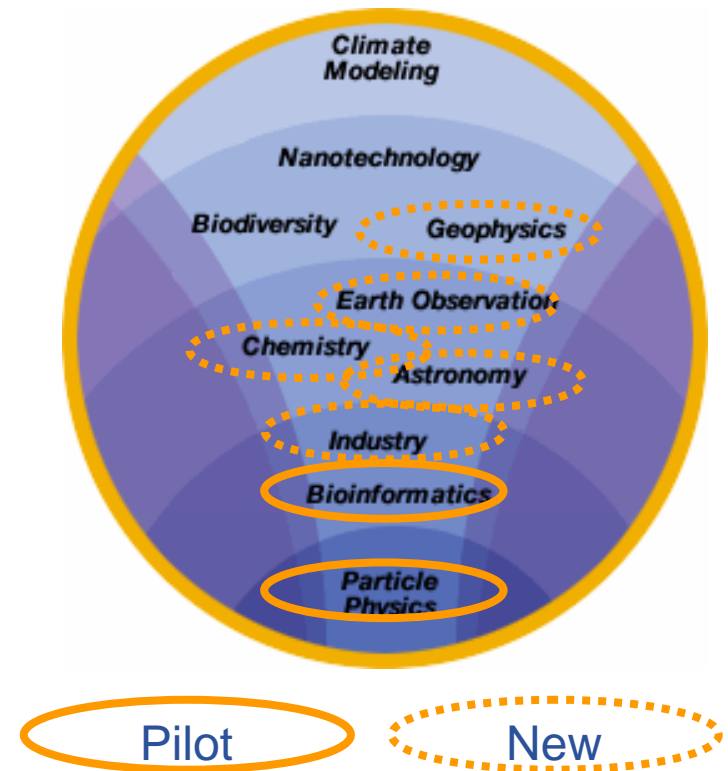
- EGO, a proposal for the long-term support and management of a **pan-European Grid infrastructure** for all sciences

- **Mission of the EGO**

- Become a centre of excellence in Grid matters
  - Become a reference for Grid solutions
  - Provide top class working conditions for leading developers
- Deliver Grid solutions to science
  - Software selection, integration, certification and packaging
  - Operation of a large Grid infrastructure for major communities
  - Support for application porting
  - Provision of test facilities for new communities to evaluate Grids
  - Education and Training
- Support development activities
- Coordinate with Grid research centres



- EGEE continues to exceed commitments and expectations in many areas
- 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
- A vision for long-term sustainability is being discussed and fine-tuned



# EGEE

## Enabling Grids for E-science

