



Enabling Grids for E-scienceE

The EGEE project's status and future

Bob Jones
EGEE Project Director
CERN



www.eu-egee.org



EGEE-II review successfully passed in May'07

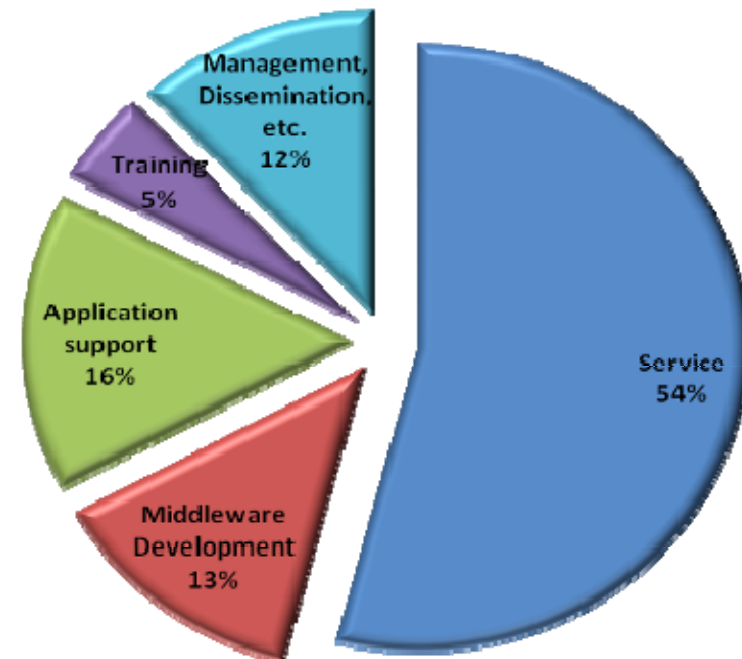
“...having achieved an operational infrastructure delivering production services to a broadly distributed and diverse user community is a remarkable achievement.”

**Flagship grid infrastructure project co-funded by the European Commission
Now in 2nd phase with 91 partners in 32 countries**

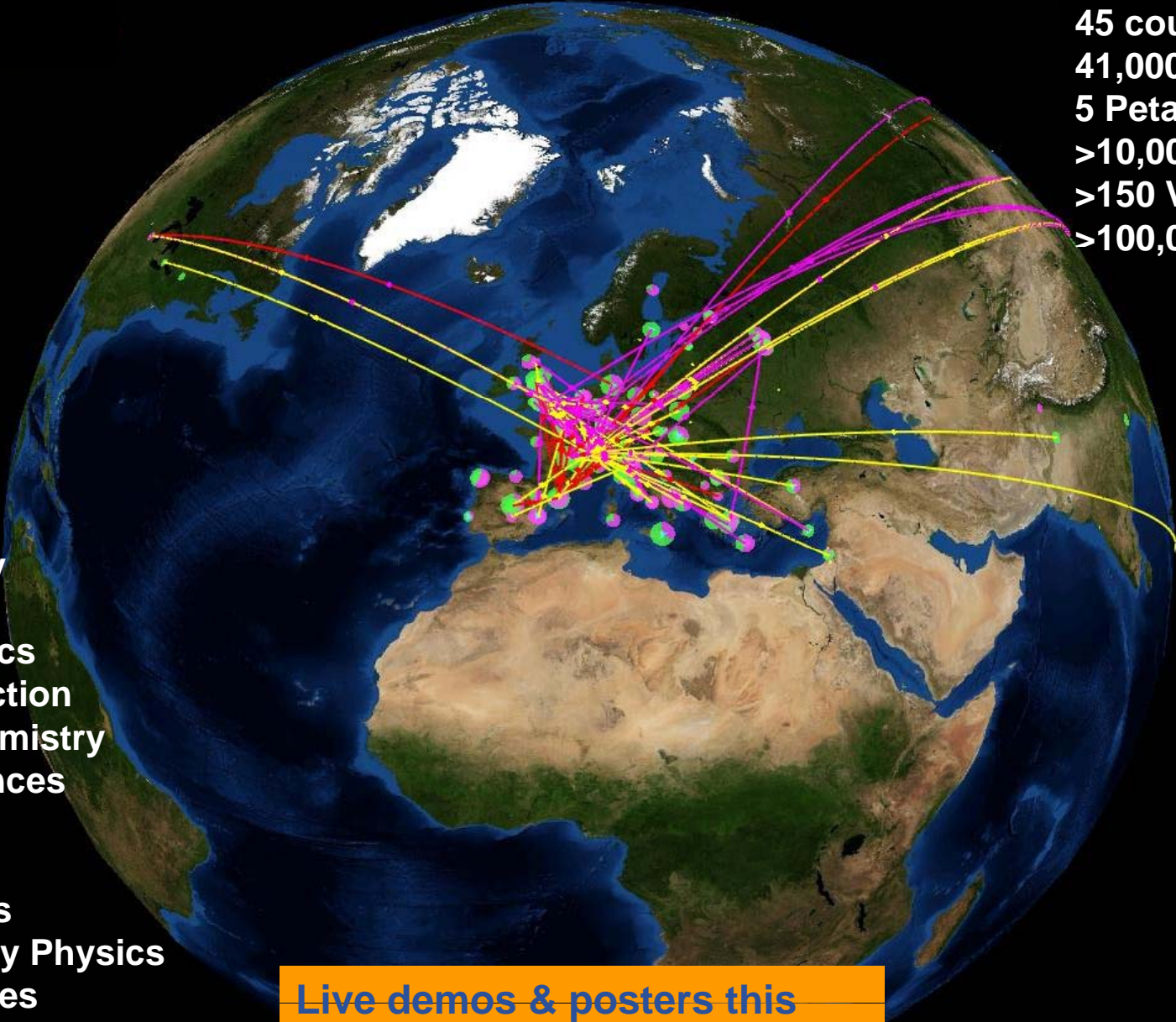
Main Objectives

- Operate a large-scale, production quality grid infrastructure for e-Science
- Attract new resources and users from industry as well as sciences

EGEE Project Activities



240 sites
45 countries
41,000 CPUs
5 PetaBytes
>10,000 users
>150 VOs
>100,000 jobs/day

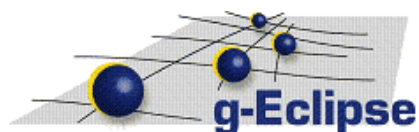


Archeology
Astronomy
Astrophysics
Civil Protection
Comp. Chemistry
Earth Sciences
Finance
Fusion
Geophysics
High Energy Physics
Life Sciences
Multimedia
Material Sciences

...

Live demos & posters this
afternoon & Tuesday evening
Prize giving: Wednesday

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



SEE-GRID
South Eastern European Grid-enabled
Infrastructure Development



Infrastructures
geographical or thematic coverage



Collaborating projects'
meetings throughout the week

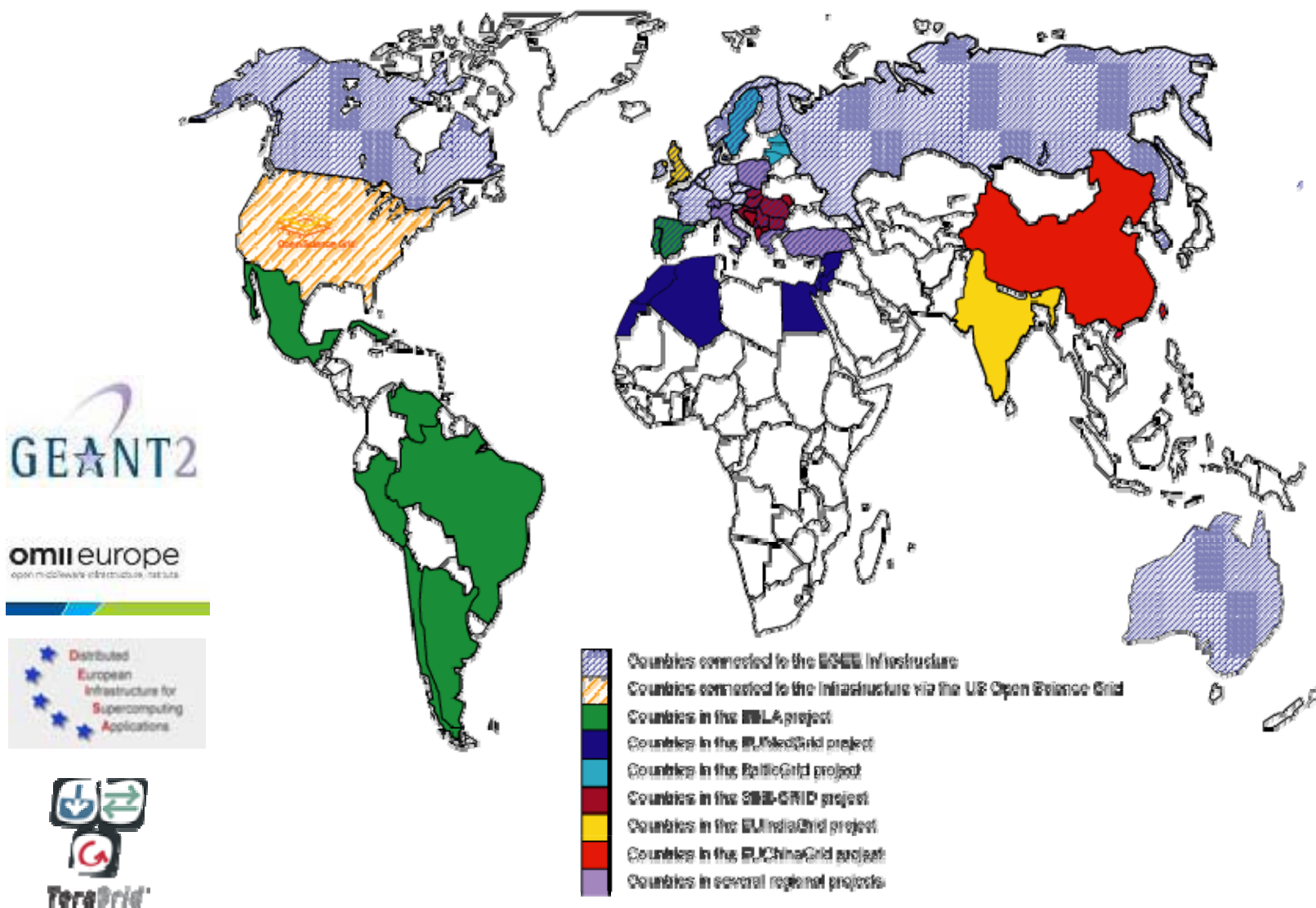


Applications
improved services for academia,
industry and the public

Support Actions
key complementary functions

omii europe
open middleware infrastructure institute





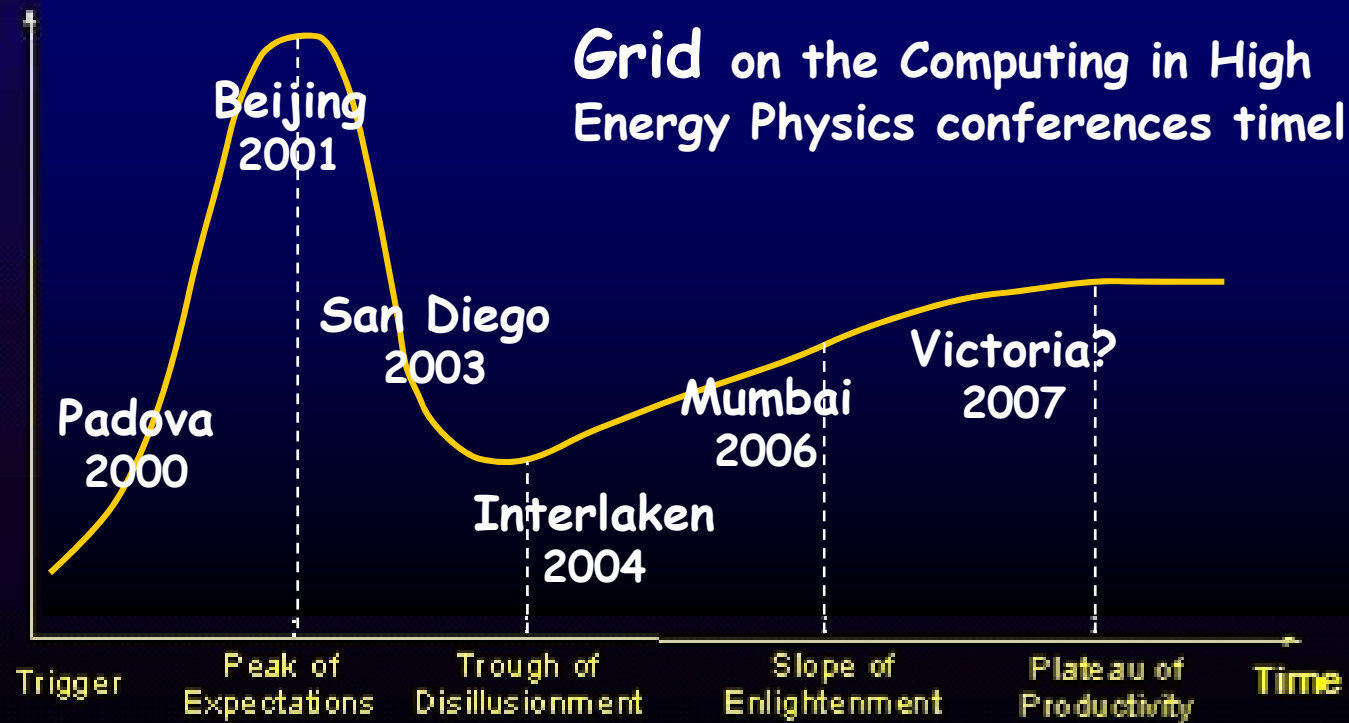


The Technology Hype Cycle

Gartner Group

Expectations

Grid on the Computing in High Energy Physics conferences timeline

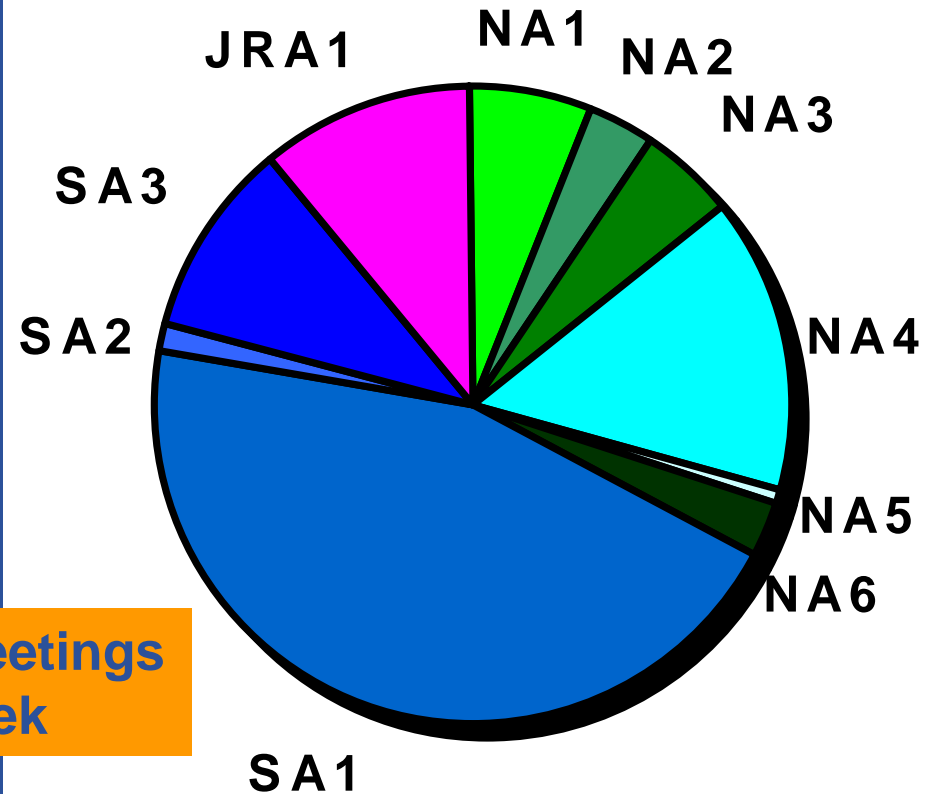


Slide courtesy of Les Robertson, LCG Project Leader

- **EGEE-III proposal submitted 20th September**
 - European Commission call INFRA-2007-1.2.3
- **Key objectives**
 - Expand/optimize existing EGEE infrastructure
 - Include more resources
 - Support more user communities
 - Make it easier to use
 - Drive standards forward
 - Prepare migration from a project-based model to a sustainable federated infrastructure based on National Grid Initiatives
- **2 year period – spring 2008 to spring 2010**
 - No gap between EGEE-II and EGEE-III

Networking activities	Specific Service Activities
NA1: Management	SA1: Grid Operations
NA2: Dissemination, Communication & Outreach	SA2: Networking Support
NA3: Training & induction	SA3: Integration, testing & Cert.
NA4: User Community support and expansion	
NA5: Policy & International Coop.	Joint Research Activities
NA6: Technology Transfer & outreach to Business 	JRA1: Middleware engineering

EGEE-II activity meetings throughout the week



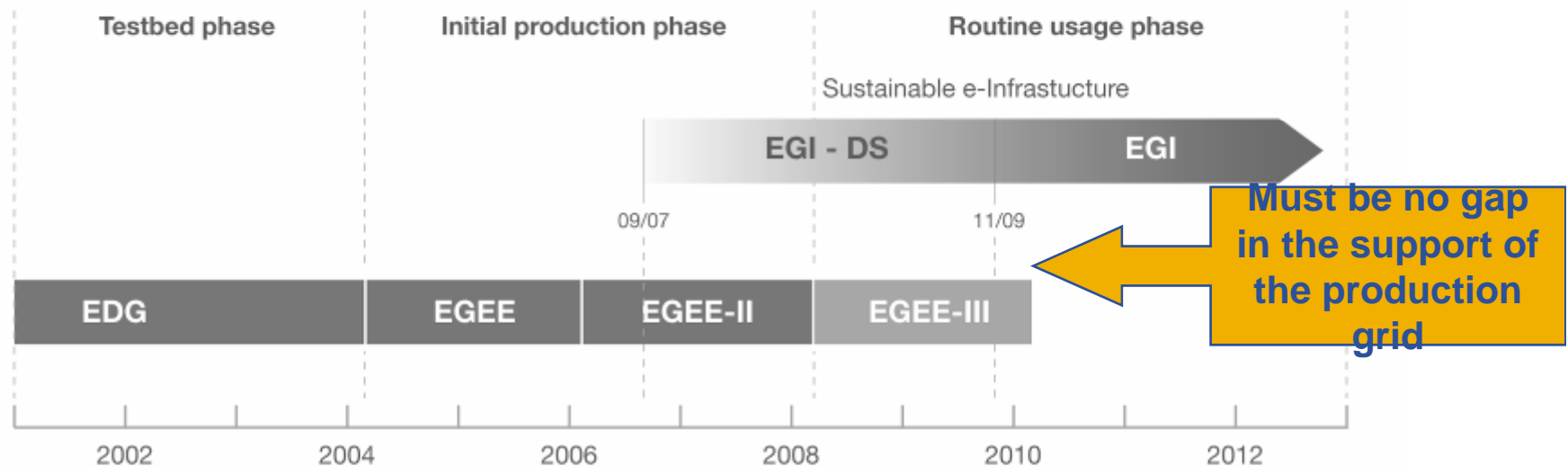
9,997 Person Months, of which >4,500 contributed by the consortium from their own funding sources.

- **94 partners, academic & business, organised in regional federations:**
 - Asia Pacific (Australia, Japan, Korea, Taiwan)
 - Benelux (Belgium, the Netherlands)
 - Central Europe (Austria, Croatia, Czech Republic, Hungary, Poland, Slovakia, Slovenia)
 - France
 - Germany/Switzerland
 - Italy
 - Nordic countries (Finland, Sweden, Norway)
 - South West Europe (Portugal, Spain)
 - South East Europe (Bulgaria, Cyprus, Greece, Israel, Romania, Serbia, Turkey)
 - Russia
 - United Kingdom/Ireland
 - USA
- **All EC co-funded countries group their academic partners on a national level via Joint Research Units or National Grid Initiatives**
 - Single interface with the project per country
- **Collaboration with additional countries**
 - Asia Pacific: Brunei, China, Indonesia, Malaysia, Philippines, Singapore, Thailand, Vietnam
 - Commonwealth of Independent States: Armenia, Ukraine, Uzbekistan

**Federation meetings
Tuesday evening**

EGEE collaboration board meeting Wednesday morning

- Need to prepare permanent, common **Grid infrastructure**
- Ensure the long-term sustainability of the European e-Infrastructure independent of short project funding cycles
- Coordinate the integration and interaction between National Grid Infrastructures (NGIs)
- Operate the production Grid infrastructure on a European level for a wide range of scientific disciplines



Cyprus



Israel



EGI - European Grid Initiative

Towards a sustainable production grid infrastructure

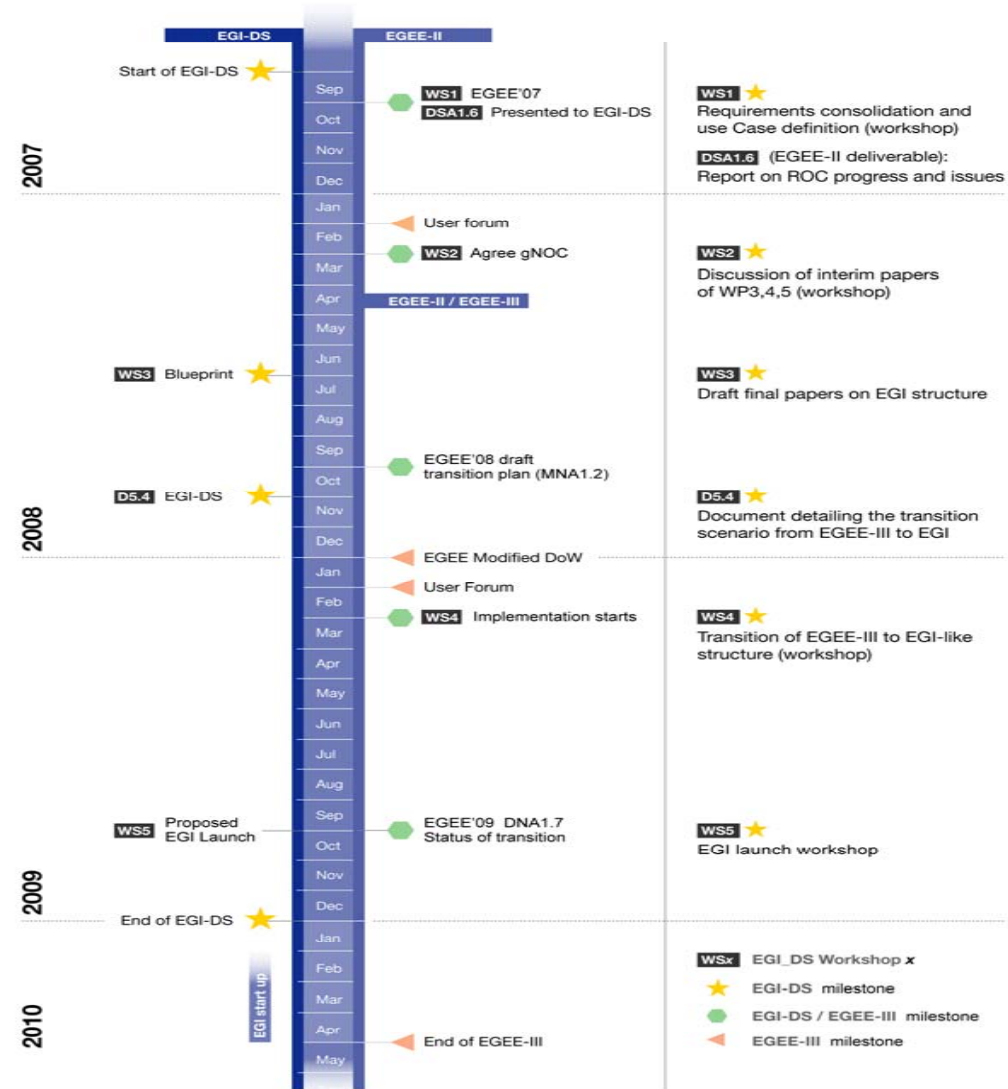
- **EGI Design Study proposal approved to the European Commission (started 1st September'07)**
- **Supported by 31 National Grid Initiatives (NGIs)**
- **2 year project to prepare the setup and operation of a new organizational model for a sustainable pan-European grid infrastructure**
- **Federated model bringing together NGIs to build a European organisation**
- **Well defined, complimentary responsibilities between NGIs and EGI**

EGI workshop Tuesday

<http://www.eu-egi.org>



A plan has been made with the EGI Design Study project to ensure the knowledge and experience gained by EGEE are fed into the EGI planning process



Oct
Nov
Dec
Jan'08
Feb
Mar
Apr
May

- **EGEE07 conference**
- **Start-up of collaborating FP7 projects**
 - **EUFORIA:** *EU Fusion for ITER Applications*
 - **D4Science:** *Distributed collLaboratories Infrastructure on Grid ENabledTechnology 4 Science*
 - **EDGeS:** *Enabling Desktop Grids for e-Science*
 - **e-NMR:** *Deploying and unifying the NMR e-Infrastructure in System Biology*
 - **DORII:** *Deployment of Remote Instrumentation Infrastructure*
 - **SEE-GRID-SCI:** *SEE-GRID eInfrastructure for regional eScience*
 - **Life Watch (ESFRI):** *Science & Technology Infrastructure for biodiversity data & observatories*
- **User Forum'08**
- **End of EGEE-II**
- **Proposed start of EGEE-III project**
- **Final EGEE-II review**



EGEE'07

www-eu.egee.org/egee07

build bridges at EGEE'07:

- Meet face-to-face with colleagues, users, suppliers
- Link-up with other projects

