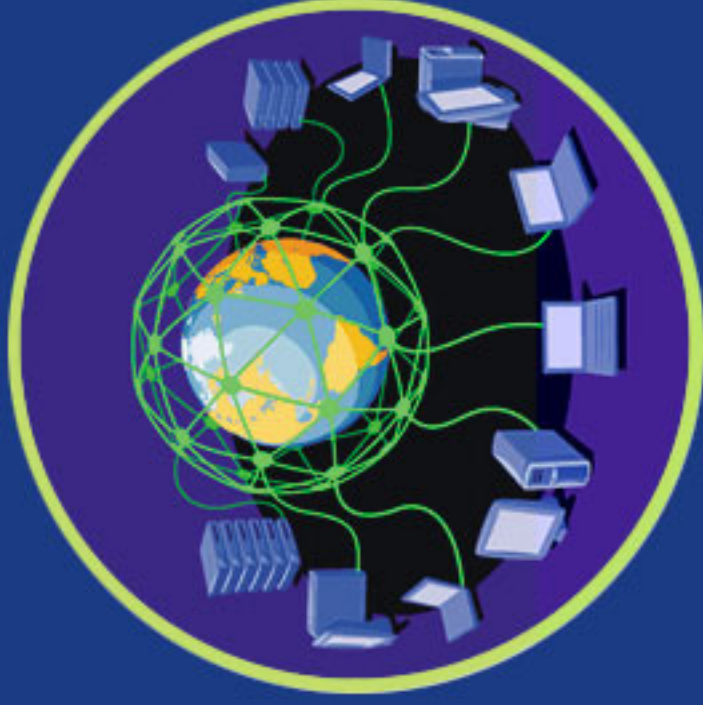


An overview of the EGEE project

Bob Jones
EGEE Technical Director



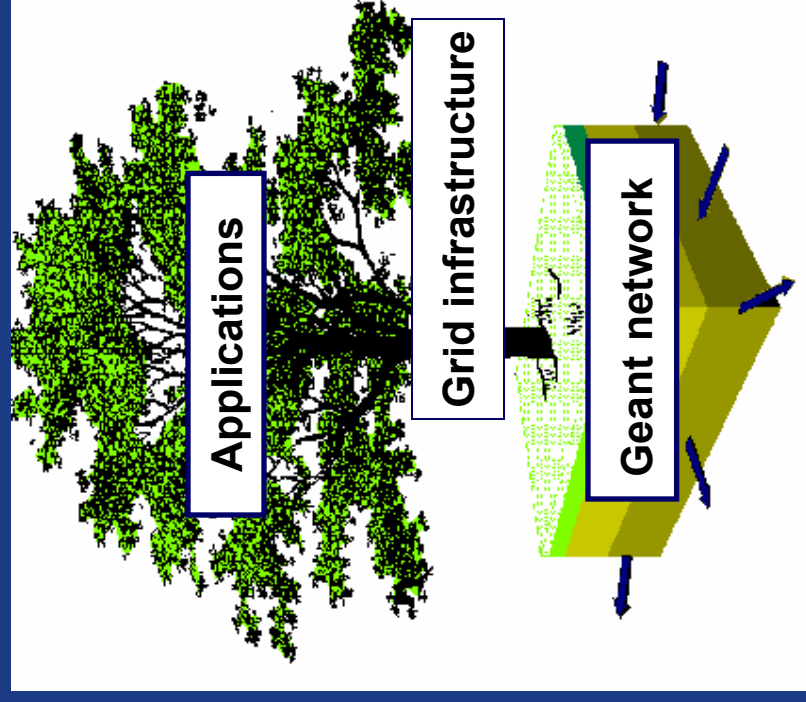
Enabling Grids for
E-science in Europe

DTI International Technology Service-GlobalWatch Mission

CERN – June 2004

What is EGEE ? (I)

- EGEE (Enabling Grids for Escience in Europe) is a seamless Grid infrastructure for the support of scientific research, which:
 - Integrates current national, regional and thematic Grid efforts
 - Provides researchers in academia and industry with round-the-clock access to major computing resources, independent of geographic location



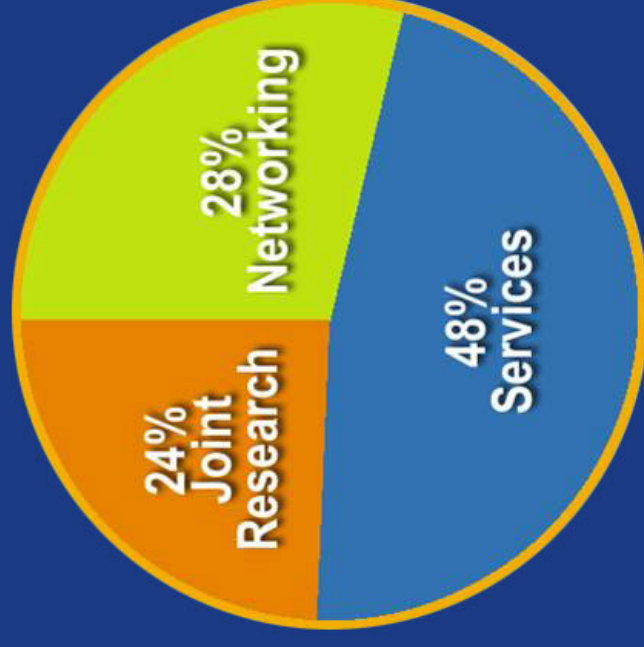
What is EGEE ? (II)

- 70 leading institutions in 28 countries, federated in regional Grids
- 32 M Euros EU funding (2004-5), O(100 M) total budget
- Aiming for a combined capacity of over 8000 CPUs (the largest international Grid infrastructure ever assembled)
- ~ 300 persons



EGEE Activities

- Emphasis on operating a production grid and supporting the end-users
- **48 % service activities** (Grid Operations, Support and Management, Network Resource Provision)
- **24 % middleware re-engineering** (Quality Assurance, Security, Network Services Development)
- **28 % networking** (Management, Dissemination and Outreach, User Training and Education, Application Identification and Support, Policy and International Cooperation)



EGEE infrastructure

- Access to networking services provided by **GEANT** and the **NRENs**
- Production Service:
 - in place (based on LCG-2)
 - for production applications
 - runs only proven stable, debugged middleware and services
 - Will continue adding new sites in EGEE federations
- Pre-production Service:
 - For middleware re-engineering
- Certification and Training/Demo testbeds



EGEE Pilot Applications -BioMed

- Biomedics
 - Bioinformatics (gene/proteome databases distributions)
 - Medical applications (screening, epidemiology, image databases distribution etc.)
 - Interactive application (human supervision or simulation)
 - Security/privacy constraints
 - Heterogeneous data formats - Frequent data updates - Complex data sets - Long term archiving
- BioMed applications deployed and will run first jobs on production service by September



Who else can benefit from EGEE?

- EGEE Generic Applications Advisory Panel:
 - 4 applications presented
 - 3 applications (comp. chemistry, earth science, astro-particle) recommended for deployment with allocation of NA4 resources
 - EU GRACE project already tested
- EU projects: Mammogrid and Diligent asking for support
- Expression of interest: Planck/Gaia (astroparticle), SimDat (drug discovery)



User training and induction

- Training material and courses from introductory to advanced level
- Train a wide variety of users both internal to the EGEE consortium and external groups from across Europe
- 7 courses/presentations already held and 5 more planned through the summer
- Experience with GENIUS portal and GILDA testbed
- Courses inline with the needs of the projects and applications



Dissemination

- 1st project conference
 - Over 300 delegates came to the 4 day event during April in Cork Ireland
 - Kick-off meeting bringing together representatives from the 70 partner organisations
- Websites, Brochures and press releases
 - For project and general public
 - Information packs for the general public, press and industry



EGEE Plans

- **two-year project** conceived as part of a four-year programme
- resources and user groups will **rapidly expand** during the course of the project
- **~3000 users** active from at least five disciplines by the end of the second year
- **from over 3000 CPUs** at the outset of the project to **over 8000** by the end of the second year
- A follow-on project is anticipated in which **industry** will more heavily involved

