



Vision

EGEE-II builds on the work of the EGEE project, which was conceived as the first two-year phase of a four-year programme, to provide a production quality Grid infrastructure across the European Research Area and beyond. Researchers in academia and industry already benefit from the EGEE Infrastructure, which simultaneously supports many applications from diverse domains. This is achieved by providing a common pool of resources, independent of geographic location, with round-the-clock access to major storage, compute and networking facilities.

The EGEE-II project significantly extends and consolidates this infrastructure, which links national, regional and thematic Grid efforts, and interoperates with other Grids around the globe. The resulting high capacity, world-wide infrastructure greatly surpasses the capabilities of local clusters and individual centres, working towards a unique and sustainable tool for collaborative, computationally intensive science (“e-Science”).

Several large- and small-scale communities already use the EGEE infrastructure as an every-day tool for their work. Applications deployed come from High Energy Physics, Life Sciences, Fusion, Earth Sciences (including the industrial application EGEODE), Astronomy and Astrophysics, Condensed Matter Physics, Computational Fluid Dynamics, Computer Science/Tools, Computational Chemistry, Civil Protection and Finance (through the Industry task Force). EGEE-II constantly works to expand the portfolio of supported applications to new disciplines.

Project Scope

The EGEE-II consortium consists of 92 partners from 32 countries, grouped into 13 federations and representing almost all major efforts in Europe as well as working with emerging National Grid Initiatives. The project also works with major national projects from the US and Asia and a number of related projects will extend the infrastructure further, to the Mediterranean area, Baltic States, Latin America, India and China. Combined with other related projects spun out from or affiliated with EGEE and EGEE-II, this demonstrates the incubator role the project has played around the world. With enthusiastic participants and a large range of collaborating projects, EGEE-II is developing its infrastructure into a truly pervasive global platform for e-Science.



Partner countries of the EGEE-II project

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Project Activities

EGEE-II consists of Networking, Service and Joint Research Activities. In response to the more mature state of Grid technology, the project is increasing the proportion of funding going to Service and Networking activities. This will allow the project to accommodate new countries, user communities and sites joining the infrastructure as well as expand efforts in dissemination, training and application support. Efforts in software development have been concentrated on Grid foundation components and integrating the third party components from other projects and sources.

Networking Activities

The Networking Activities include NA1 (Project Management); NA2 (Dissemination, Outreach and Communication); NA3 (User Training and Induction); NA4 (Application Identification and Support); and NA5 (Policy and International Cooperation).

Service Activities

The Service Activities consist of SA1 (Grid Operations, Support and Management) and SA2 (Networking Support). A new activity, SA3 (Middleware Integration, Testing and Certification) combines software elements from a variety of sources to provide integrated releases for deployment on the infrastructure.

Joint Research Activities

JRA1 (Middleware Re-Engineering) continues to develop and support the gLite middleware. JRA2 (Quality Assurance) manages quality throughout the project, including overall security and coordination.

Project Partners

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|---------------|----|-------------|-----|------------|----|-----------------|----|
| AGSC | TW | DFN | DE | JINR | RU | TAU | IL |
| UNIZAR | ES | DKRZ | DE | JKU | AT | TCD | IE |
| BME | HU | ELETTRA | IT | JSI | SI | TID | ES |
| STFC | UK | ENEA | IT | KFKI-RMKI | HU | Trust-IT | IT |
| CEA | FR | FhG/SCAI | DE | KIAM RAS | RU | TUBITAK-ULAKBIM | TR |
| CERN | CH | FOM | NL | KISTI | KR | UChicago | US |
| CESGA | ES | FZJ | DE | KTH | SE | UCM | ES |
| CESNET | CZ | FZK | DE | LIP | PT | UCY | CY |
| CGG Services | FR | GARR | IT | MTA SZTAKI | HU | UEDIN | UK |
| CIEMAT | ES | Glasgow | UK | MTW | IT | UH-HIP | FI |
| CKSC | KR | GRNET | GR | NIIF | HU | UiB | NO |
| CNES | FR | GSI | DE | Oxford | UK | UIBK | AT |
| CNR-ITB | IT | HEALTHGR ID | FR | PIC | ES | UKBH | DK |
| CNRS | FR | ICI | RO | PNPI | RU | ULB | BE |
| CRSA | FR | UW | PO | PSNC | PO | UNICAL | IT |
| BT-IC | FR | IHEP | RU | RED.ES | ES | UNILE | IT |
| CSC | FI | IISAS | SK | RENCI | US | UNIMAN | UK |
| ETHZ (CSCS) | CH | IMPB RAS | RU | RRC KI | RU | UNINA | IT |
| CSIC | ES | Imperial | UK | RUG | NL | UWisc-Madison | US |
| CYFRONET | PO | INFN | IT | SARA | NL | UPV | ES |
| DANTE | UK | IPB | YU | SINP MSU | RU | USC | US |
| ELSAG DATAMAT | IT | IPP-BAS | BUL | SRCE | HR | UvA | NL |
| DESY | DE | ITEP | RU | SWITCH | CH | VR | SE |

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