In order to extend the reach of the EGEE infrastructure, the project works with a number of regional Grid infrastructures.

Funded by the European Commission, these projects build on EGEE knowledge and technology to extend the European Grid infrastructure to other parts of the globe such as India, China and Latin America.

EGEE also works closely with other major infrastructures such as Open Science Grid and TeraGrid in the United States, DEISA in Europe and Science Grid and TeraGrid in the United States, DEISA in Europe and NAREGI in Japan.

Work with these other projects and infrastructures helps to support the vision of a global Grid community analogous to the global nature of the World Wide Web.

The LHC Computing Grid (LCG) project is a global collaboration to provide the computer resources for the Large Hadron Collider (LHC), a next generation particle accelerator under construction at CERN (the European Organization for Nuclear Research). LCG relies on the Grid infrastructures managed and operated by EGEE and other international Grid projects. It is very closely tied to EGEE, and the physics community provides many of the EGEE resources.

Cooperation with other Infrastructures

While it supplies a great deal of computing power, EGEE does not have a central pool of computing resources. Instead, the many thousands of computers that its infrastructure can access are spread around the many EGEE partners across Europe and the world.

These machines form part of the computing resources of each partner institute or organisation, and are generally held in each site’s central computer centre.

These centres generally resemble the CERN computer centre seen in the images here.

EGEE and related infrastructures

Country with sites connected to EGEE via EGEE partner
Country with sites connected to EGEE via other EU-funded project
Country with sites connected to EGEE via other infrastructure projects

EGEE monitors its infrastructure in many different ways, keeping track of who is using which resources in the increasingly global infrastructure that it manages and supports. These monitoring systems give output that the public can see in a number of ways:

Live view of the information system

See http://goc.grid.sinica.edu.tw//gocstat, provided by Asian EGEE partner Academia Sinica in Taipei.

This tool lists each site in the EGEE infrastructure and displays information about the status and recent history of each. It can also monitor the state of sites on other related infrastructures (see box top left).

Grid Visualisations

See http://gridportal.hap.hz.ic.ac.uk//, provided by UK EGEE partner Imperial College and UK Grid project GridPP.

GridPP have provided a range of different ways to visualise the operation of the EGEE infrastructure, from layers for the popular Google Earth™ program showing the Grid sites to fully animated 3D globes showing jobs being distributed and processed across the world. Not only visually appealing, these systems take information directly from EGEE’s own internal tools and, by clicking on individual sites, full information about the jobs they are processing can be found.