

- **Pora Optics Study** simulates and consolidates infra-structure for the start-up of fiber based optical networks in the Eastern Europe, Baltic States and Southern Caucasus regions.  
url: [www.pora-optics.org](http://www.pora-optics.org)
- **AUGERACCESS** using Grid concepts, improves the real-time access capabilities of European research groups to the data produced by the Pierre Auger Observatory in Argentina, which measures the flux of primary cosmic rays.  
url: [www.augeraccess.net](http://www.augeraccess.net)
- **EXPRES** creates a distributed, large scale, astronomical instrument by connecting the largest and most sensitive radio telescopes on the planet via a high speed network.  
url: [www.express-eu.org](http://www.express-eu.org)
- **Go4it** capitalises on large European investments made in research infrastructures by giving the tools to all user communities to test IPv6 protocol based solutions, thereby increasing their level of knowledge, trust and confidence in next generation technologies.  
url: [www.go4-it.org](http://www.go4-it.org)

## FP6 PROJECTS: RESEARCH INFRASTRUCTURES

*Projects deploying operational infrastructures:*

1. **NETWORKING INFRASTRUCTURES**
  - **GEANT2** continues and improves on both the functionality of and the services offered by the GEANT network, i.e., solutions to support end-to-end services, Grid compliance, Quality of Service, seamless access, mobility and security.  
url: [www.geant2.net](http://www.geant2.net)
  - **SEREN2** creates the next generation of the South-Eastern European segment of GEANT2 that intends to make leading-edge technologies and services available to the entire R&E communities in the Balkans.  
url: [www.seren.eu](http://www.seren.eu)
  - **ORIENT** implements a direct connection between GEANT2NET to support a wide range of scientific co-operations between Europe and China.  
url: [www.dante.net/orient](http://www.dante.net/orient)



- **EUROVO-DCA** implements a Virtual Observatory (VObs) of astronomical data in Europe that provides a unified virtual data and service resource (grid) with the ability to perform complex data discovery and manipulation tasks across the whole range of astronomical research topics.  
url: [www.euro-vo.org/pub](http://www.euro-vo.org/pub)
- **DRIVER** builds the nucleus for a virtual, pan-European network of repositories, starting with more than 50 existing repositories from 5 European countries. State-of-the-art technology is deployed to manage the physically distributed repositories as one large scale virtual content source.  
url: [www.driver-repository.eu](http://www.driver-repository.eu)
- **GRIDCC** focuses on real-time access and control of distributed instrumentation in Grid-based technologies.  
url: [www.gridcc.org](http://www.gridcc.org)

- **INTEUGRID** deploys and operates an interpretable infrastructure for developing and testing Grid applications that will improve the data work of researchers (featuring Distributed Parallel (MPI) Interactive Computing and Storage) at Tera level, as well as user friendly access through a Grid interactive desktop with powerful visualization capabilities.  
url: <http://www.interactive-grid.eu>
- **FTICS** establishes a coherent e-Infrastructure for the configuration, integration, testing and benchmarking for the scientific community of large-scale internationally distributed software projects.  
url: [www.fern.ch/etics](http://www.fern.ch/etics)
- **ISSG** contributes to the consolidation of the European Grid infrastructure in the field of computer security by contributing to the development of the European deployment of Integrated Site Security, as a complementary action to EGEE Grid Security.  
url: [www.issg.org](http://www.issg.org)
- **ICEAGE** simulates and supports advances in Grid education throughout Europe. This involves collaboration across the world to improve the quality of Grid education in the use of Grid, but also the use of Grid in education.  
url: [www.iceage-eu.org](http://www.iceage-eu.org)
- **ITHAMET** strengthens the Euro-Mediterranean community of researchers in molecular and clinical research in thalassaemia and related haemoglobinopathies, and enhances the use of protein using the existing and emerging tools of EERA-European Research Area (GEANT2, Grid).  
url: [www.ithamet.eu](http://www.ithamet.eu)
- **BIOPFOGRID** reinforces the collaboration between the European Grid Infrastructure (EGEE) and the molecular biology/research user community for selected bioinformatics applications.  
url: [www.bib.cnr.it/biopfogrid](http://www.bib.cnr.it/biopfogrid)
- **IRGSP** promotes the continuity of the e-Infrastructure Reflection Group (e-IRG), by delivering sustainable and project-oriented services via the e-IRG secretariat and Technical Support Group.  
url: [www.e-irg.org](http://www.e-irg.org)
- **BELIEF** develops synergies between researcher communities and ongoing e-Infrastructure initiatives and builds a Scientific Repository containing documentation produced by e-Infrastructure projects.  
url: [www.bellefproject.org](http://www.bellefproject.org)
- **OMII-Europe** harvests open-source grid software from across Europe (promoting the notion of an Open Middleware Infrastructure Institute for Europe) and supplies these key grid services in a form that enables them to interoperate

- **BalticGrid** develops research and education computing and communication infrastructure in the Baltic States and integrates it into the emerging European Grid, focusing on the EGEE extension to the Baltic region.  
url: [www.balticgrid.org](http://www.balticgrid.org)
- **EUChaoGRID** provides specific support actions to foster the integration and the interoperability of the Grid infrastructures in Europe (EGEE) and China (CNGGrid) for the benefit of e-Science applications.  
url: [www.euchao-grid.org](http://www.euchao-grid.org)
- **EELA** builds the bridge between consolidated e-Infrastructure initiatives (EELA, EELA-RI) and emerging ones in Latin America (ALICE, RECALA, RAL) creating a new e-Science collaboration network in Grid based e-Science applications.  
url: [www.eel-a.org](http://www.eel-a.org)
- **EUMEDGRID** fosters the participation of the Mediterranean region states in the pan-European and worldwide Grid initiatives and makes use of the EUMEDCONNECT network.  
url: [www.eumedgrid.org](http://www.eumedgrid.org)
- **EU-IndiaGrid** makes available a common, interoperable Grid communities to the European and Indian Scientific Communities, in order to support existing EU-Indian collaborations in e-Science and to promote new ones.  
url: [www.euinagrid.eu](http://www.euinagrid.eu)
- **RINGGrid** implements recommendations for designing next-generation Remote Instrumentation Services, based on identification of instruments, the user communities and their requirements and analysis of the remote instrumentation networks with next generation high-speed communications systems and grid infrastructure.  
url: [www.ringgrid.eu](http://www.ringgrid.eu)

## 2. GRID INFRASTRUCTURES

- **EGEE** had a structuring effect by deploying the largest international Grid infrastructure with the combined capacity of over 20,000 CPUs, federating 70 institutions in 20 countries. This mission was critical for a number of very demanding research communities.  
url: [www.eu-egee.org](http://www.eu-egee.org)
- **EGEE-II** extends EGEE by bringing together scientists and engineers from more than 90 institutions in 32 countries world-wide to provide a seamless Grid infrastructure for e-Science that is available to scientists from multiple disciplines 24 hours a day.  
url: <http://www.eu-egee.org>
- **SEEGRID** provided specific support actions to assist the participation of the South-Eastern European states to the pan-European and worldwide Grid initiatives by establishing a seamless and interoperable Grid infrastructure.  
url: [www.see-grid.eu](http://www.see-grid.eu)
- **SEE-GRID-2** further advances and integrates the existing South-Eastern European Grid infrastructure and services, strengthens the scientific collaboration and cooperation among participating communities and ultimately achieves sustainability for regional and national e-Infrastructure services.  
url: <http://www.see-grid.eu>

- **ALICE** (RecCLARA), Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay and Venezuela.  
url: [www.alice.org](http://www.alice.org)
- **EUMEDCONNECT**: Algeria, Israel, Morocco, Tunisia, Malta, Cyprus, Turkey, Syria, Egypt, Palestinian Authorities, Lebanon and Jordan.  
url: <http://www.eumedconnect.net>
- **TEIN2** (The Trans-Eurasia Information Network phase 2): Australia, Brunei, China, Indonesia, Japan, Korea, Malaysia, the Philippines, Singapore, Thailand and Vietnam.  
url: [www.tein2.net](http://www.tein2.net)

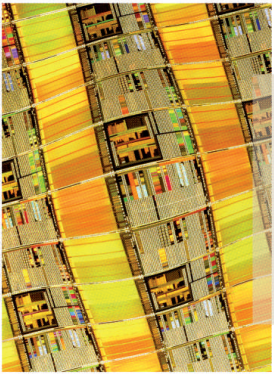
## FP6 PROJECTS: INFORMATION SOCIETY TECHNOLOGIES

*Projects deploying experimental testbeds and support actions:*

- **PANLAB** establishes a Pan-European Laboratory for Next Generation Computing and Information Systems, based on operational general conditions and technical infrastructure. The project builds a full chart of the testing labs and sites available and presents a plan of coordination between these.  
url: [www.panlab.net](http://www.panlab.net)
- **OPENNET** brings together the major Internet service providers worldwide (Cisco, Juniper) in order to define a new business model for the Internet in close cooperation with GEANT2, NRENs, IST projects and the IXPForum Forum.  
url: <http://www.ist-opennet.org>
- **OneLab**, based on the successful PlanetLab project, provides a large-scale, open, heterogeneous testbed for the next generation of network experiments in Europe.  
url: <http://www.ipv6-ist-oneid.eu>
- **RING**, through its widely knowledgeable think-tank "The Routing Cluster", is supporting the coordination, study and analysis of novel protocols on the Internet leading to proposals for moving approaches towards the evolution of routing.  
url: <http://www.ist-ring.eu>
- **EUROLabs** integrates new networking technologies, applications and services into five interconnected testbeds in Belgium, France, Germany, Hungary and Switzerland.  
url: [www.ist-euro-labs.org](http://www.ist-euro-labs.org)
- **WEIRD** implements research testbeds using the WIMAX technology in order to allow isolated or previously inaccessible areas to be connected to the GEANT2 research network.  
url: <http://www.ist-weird.eu>



- **VITAL** consolidates the technological framework and strategies for research network development in South-Eastern Europe.  
url: [www.seefire.org](http://www.seefire.org)
- **DIJUGENT**, by integrating the Grid and Digital Library (DL) technologies, creates an advanced test-bed that allows members of dynamic virtual e-Science organizations to access shared knowledge and to collaborate in a secure, coordinated, dynamic and cost-effective way.  
url: [www.dijugentproject.org](http://www.dijugentproject.org)



## 3. SUPERCOMPUTING GRID

- **DEISA** builds a distributed Tera-scale supercomputing facility made-up of eleven major supercomputing centres across Europe interconnected by a gigabit network, supported by innovative global filing systems.  
url: [www.deisa.org](http://www.deisa.org)
- **eDEISA** extends DEISA by adding new services, such as a second generation high-bandwidth dedicated network across 11 supercomputing platforms in Europe, additional middleware and new innovative services in the user and the various scientific-application domains.  
url: [www.deisa.org](http://www.deisa.org)

- **NETQoS** develops autonomous, policy-based, QoS management for virtual heterogeneous communication environments. This is demonstrated on a distributed QoS and efficient resource utilisation.  
url: [www.netqos.eu](http://www.netqos.eu)
- **MUPRED** investigates optical technology as an enabler for future upgrades to the European research infrastructure.  
url: [www.ist-mupled.org](http://www.ist-mupled.org)
- **PHOSPHORUS** addresses some of the key technical challenges in enabling on demand end-to-end network services for Grid applications across multiple heterogeneous domains: this is demonstrated on a distributed test-bed interconnecting European and worldwide research network infrastructures.  
url: [www.ist-phosphorus.eu](http://www.ist-phosphorus.eu)
- **LOBSTER** designs and deploys a pilot European Infrastructure for accurate Internet traffic monitoring.  
url: [www.ist-lobster.org](http://www.ist-lobster.org)
- **IPv6 TF-SC** supports the activities of the European IPv6 Task force and encourages the deployment of IPv6 on a larger scale in Europe.  
url: <http://www.ipv6tf.eu/>
- **6DISS** supports the deployment of the new Internet protocol (IPv6) and services in the developing regions by exploiting the experiences of the projects 6NET, Euro6IX and GEANT2.  
url: [www.6diss.org](http://www.6diss.org)
- **ANEMONE** sets up a distributed and open IPv6 testbed to evaluate and validate innovative and complex applications, services and devices from the mobility R&D community.  
url: [www.ist-anemone.eu](http://www.ist-anemone.eu)

- **SEEFFIRE** studied the availability of fibre infrastructure and strategies for research network development in South-Eastern Europe.  
url: [www.seefire.org](http://www.seefire.org)
- **DIJUGENT**, by integrating the Grid and Digital Library (DL) technologies, creates an advanced test-bed that allows members of dynamic virtual e-Science organizations to access shared knowledge and to collaborate in a secure, coordinated, dynamic and cost-effective way.  
url: [www.dijugentproject.org](http://www.dijugentproject.org)

- **ALICE** (RecCLARA), Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay and Venezuela.  
url: [www.alice.org](http://www.alice.org)
- **EUMEDCONNECT**: Algeria, Israel, Morocco, Tunisia, Malta, Cyprus, Turkey, Syria, Egypt, Palestinian Authorities, Lebanon and Jordan.  
url: <http://www.eumedconnect.net>
- **TEIN2** (The Trans-Eurasia Information Network phase 2): Australia, Brunei, China, Indonesia, Japan, Korea, Malaysia, the Philippines, Singapore, Thailand and Vietnam.  
url: [www.tein2.net](http://www.tein2.net)

- **NETQoS** develops autonomous, policy-based, QoS management for virtual heterogeneous communication environments. This is demonstrated on a distributed QoS and efficient resource utilisation.  
url: [www.netqos.eu](http://www.netqos.eu)
- **MUPRED** investigates optical technology as an enabler for future upgrades to the European research infrastructure.  
url: [www.ist-mupled.org](http://www.ist-mupled.org)
- **PHOSPHORUS** addresses some of the key technical challenges in enabling on demand end-to-end network services for Grid applications across multiple heterogeneous domains: this is demonstrated on a distributed test-bed interconnecting European and worldwide research network infrastructures.  
url: [www.ist-phosphorus.eu](http://www.ist-phosphorus.eu)
- **LOBSTER** designs and deploys a pilot European Infrastructure for accurate Internet traffic monitoring.  
url: [www.ist-lobster.org](http://www.ist-lobster.org)
- **IPv6 TF-SC** supports the activities of the European IPv6 Task force and encourages the deployment of IPv6 on a larger scale in Europe.  
url: <http://www.ipv6tf.eu/>
- **6DISS** supports the deployment of the new Internet protocol (IPv6) and services in the developing regions by exploiting the experiences of the projects 6NET, Euro6IX and GEANT2.  
url: [www.6diss.org](http://www.6diss.org)
- **ANEMONE** sets up a distributed and open IPv6 testbed to evaluate and validate innovative and complex applications, services and devices from the mobility R&D community.  
url: [www.ist-anemone.eu](http://www.ist-anemone.eu)

## FP6 PROJECTS: RESEARCH INFRASTRUCTURES

*Projects deploying operational infrastructures:*

1. **NETWORKING INFRASTRUCTURES**
  - **GEANT2** continues and improves on both the functionality of and the services offered by the GEANT network, i.e., solutions to support end-to-end services, Grid compliance, Quality of Service, seamless access, mobility and security.  
url: [www.geant2.net](http://www.geant2.net)
  - **SEREN2** creates the next generation of the South-Eastern European segment of GEANT2 that intends to make leading-edge technologies and services available to the entire R&E communities in the Balkans.  
url: [www.seren.eu](http://www.seren.eu)
  - **ORIENT** implements a direct connection between GEANT2NET to support a wide range of scientific co-operations between Europe and China.  
url: [www.dante.net/orient](http://www.dante.net/orient)