



# The Global Access Point to e-Infrastructure

- Explains and promotes global e-Infrastructures among researchers and general public
- Facilitates networking between e-Infrastructures projects and end users worldwide
- Provides a powerful communications platform for e-Infrastructures projects

## Do you count in the world of e-Infrastructures?

Create and manage your project profile on the “myspace” of e-Infrastructure, BELIEF’s platform will help you to be counted in the global community of virtual research.

## Who, what, where, when?

Publish your events in the events calendar and see what the e-Infrastructures community is doing when and where in the world!

## Zero-In, the ultimate reference for e-Infrastructure developments.

This regular publication, disseminated globally, brings together expert analysis and news from the world of e-Infrastructure. Connectivity, grid, interoperability and standards, data layer, it’s all here.



## The BELIEF Team:

- Metaware S.p.A, Italy, Coordinator
- Brunel University, U.K.
- Education & Research Network India, ERNET, India
- Escola Politécnica of the Universidade de São Paulo, Brazil
- Information Science & Technologies Institute of the Italian National Research Council (CNR-ISTI), Italy
- National and Kapodistrian University of Athens, Greece
- Meraka Institute, South Africa

## BELIEF Digital Library, newly enhanced!

- This powerful repository service can host, preserve and manage your e-Infrastructure material.
- The BELIEF DL puts your documents in direct touch with your desired audience and allows worldwide users to discover the full breadth of e-Infrastructure.
- Full of multimedia documents, event material, project results and analyses.

Just submit your documents to BELIEF to ensure your project results go global!

## Contribute to BELIEF International Initiatives!

### e-Concertation meetings promoted by the European Commission. A unique opportunity to:

- discuss commonalities and potential interactions between projects and e-Infrastructure related initiatives;
- harness future trends and visions online between meetings.

### BELIEF brainstormings:

- identify and discuss big-picture opportunities for e-Infrastructures application;
- experts collaborate to find solutions for problems identified in eConcertation.

### BELIEF International Symposia in India, Latin America, South Africa:

- reinforce the global relevance and impact of EU e-Infrastructure;
- key actors and policymakers discuss high-level issues in e-Infrastructure development;
- knowledge exchange between major eInfrastructures hubs;
- essential human networking opportunity.

## e-Infrastructure Essentials

1. Means ‘electronic research infrastructure’, a range of ICT-based resources to carry out research. Allows researchers in different countries to work together at the same time without leaving their rooms!
2. A High speed internet connectivity, reserved for research and education, links universities, schools, research labs globally. It’s much more powerful than commercial internet! Geant2 is the main project that builds and maintains this fundamental ‘1st layer’ of e-Infrastructure. Several projects help extend its reach to regions worldwide (eg. EELA in Latin America)
3. The ‘2nd layer’ is ‘grid computing’ that allows researchers to do huge calculations using many computers simultaneously (key example: EGEE project). Different types of research may need grids of supercomputers (key example: DEISA project).
4. All the data that is generated by these layers of globally interconnected computers is managed in ‘digital repositories’ that can be accessed by researchers from many different disciplines. This 3rd ‘data’ layer is a source of new knowledge so helps drive innovation. (Key example, DRIVER project)
5. Software called middleware ensures all these interconnected computers can ‘talk to each other’ so researchers can collaborate ‘virtually’ very easily. (Key project: G-Lite for EGEE grid; OMII) Protocols and standards help smooth this interoperability (key project: OGF Europe)
6. All this is e-Infrastructure. It led to discoveries that were previously impossible without them. It greatly enhances disciplines like research into disease, seismic or climate modelling, understanding our universe!

