DILIGENT
Digital libraries powered by the Grid

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ISTI-CNR, Italy
Duration: 3 years

Commencement Date: September 2004

Effort: 1024 p/m

Cost: 9.8 M Euro

EU funding: 6.3 M Euro
Partners

- Consiglio Nazionale delle Ricerche – ISTI (Italy, Scientific Co-ordinator)
- European Research Consortium for Informatics and Mathematics (France, Administrative Co-ordinator)
- University of Athens (Greece)
- Swiss Federal Institute of Technology Zurich - ETH Zurich (Switzerland)
- Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. – IPSI (Germany)
- University for Health Informatics and Technology Tyrol (Austria)
- University of Strathclyde (United Kingdom)
- Engineering Ingegneria Informatica SpA (Italy)
- Fast Search & Transfer ASA (Norway)
- 4D SOFT Software Development Ltd. (Hungary)
- European Organization for Nuclear Research (Switzerland)
- European Space Agency – ESRIN (Italy)
- Scuola Normale Superiore (Italy)
- RAI Radio Televisione Italiana (Italy)

1st Concertation Meeting on eInfrastructures, The Hague, 22th November 2004
Research is carried out by groups of individuals, belonging to different institutions, that dynamically aggregate to carry out projects together.

By sharing their resources these individuals create better conditions for their research.

Digital libraries, by maintaining and making worldwide accessible the produced knowledge, are becoming key instruments for scientific collaboration in many research areas.
The current digital library technology

- The construction and management of a DL requires high investments and specialized personnel.
- Years are spent in designing and setting up a DL.
- Multimedia and multi-type handling, the new DL frontier, is very limited since the storage and processing of these new types of documents requires high capabilities.
Create an advanced Digital Library Infrastructure that will allow members of dynamic virtual research groups to create on-demand transient digital libraries based on shared computing, storage, multimedia, multi-type content and application resources.
Technical approach

DILIGENT will obtain its objectives by exploiting Grid technologies as a means for providing:

- High computing and storage capabilities for the handling of a wide variety of information objects
- Controlled sharing of resources
Technical solution

- The high computing and storage capabilities will be obtained by relying on the EGEE infrastructure.
- The DILIGENT project will develop the knowledge management services and the services that are needed to handle them.
Expected results

- A “knowledge eInfrastructure” for supporting research

- A test-bed for serving two of our user communities
  - Culture heritage domain
  - Environmental science domain

- A number of experiences/solutions that can be shared/reused by other applications
  - Sharing of content and application resources
  - On-demand service activation
  - Dynamic virtual research organizations
  - .....

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Contact us

Co-operation with other projects/communities is welcome

www.diligentproject.org

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