Diligent

A **DI**gital **LI**brary Infrastructure
on **G**rid **EN**abled **T**echnology

DILIGENT
A step towards a knowledge infrastructure

Information Society
Technologies

Diligent

- 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)

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Research today

- 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 knowledge produced, are essential instruments for scientific collaboration in any research area

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The digital library crisis

- 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 processing of these new types of documents requires with high computing capabilities

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A DIgital Library Infrastructure on Grid Enabled Technology

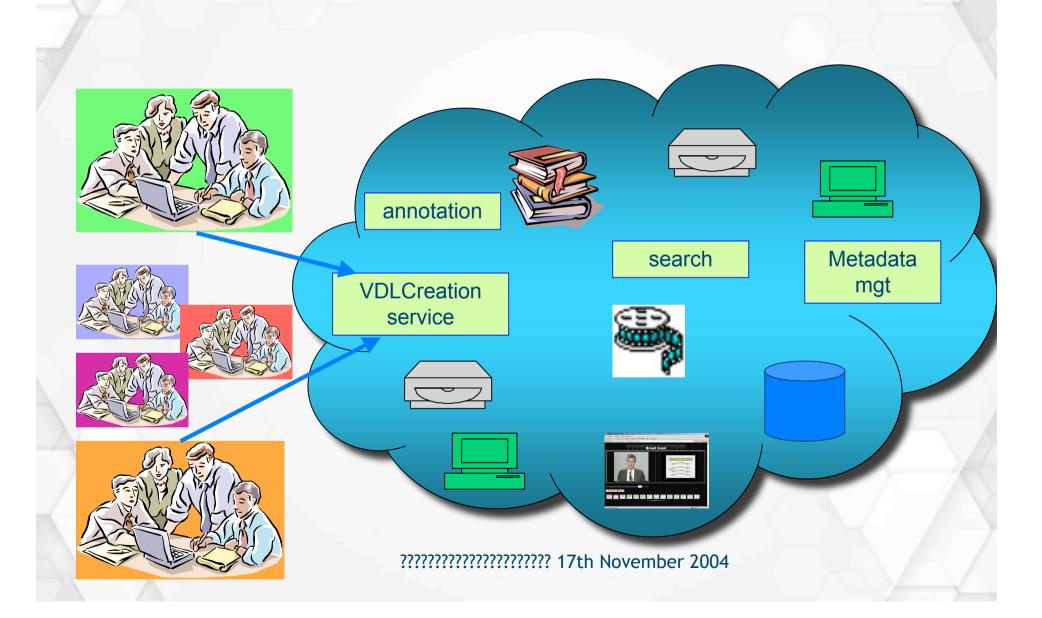????????????????????????? 17th November 2004

Objective

Create an advanced Grid-based Digital Library Infrastructure that will allow members of dynamic virtual research groups to create on-demand transient digital libraries based on shared computational, storage, multimedia, multi-type content and application resources

DILIGENT Framework

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annotation

VDLCreation
service

search

Metadata
mgt

Broad band

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Architectural framework

- ● DILIGENT will build an architectural framework based on **Grid technologies**

  - ◆ Controlled sharing of resources

  - ◆ High computing and storage capabilities for the handling of a wide variety of information objects

- ● EGEE will provide the high computing capabilities, DILIGENT will add everything is needed to handle the sharing of knowledge and the knowledge management services.

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www.diligentproject.org

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