



Enabling Grids for E-scienceE

DILIGENT: from documents into computers to content across e-Infrastructures



Andrea Manieri

DILIGENT Exploitation Manager

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www.eu-egee.org



- **Ignacio Blanquer Espert – Bioinformatics Researcher**
 - He participated in Healthgrid project and contributed to the roadmap for an EU Healthgrid.
- **Tamas Hauer – Health-e-child project,**
 - He's contributing to user requirements specifications and biomedical knowledge representation
- **Frederica Darema – NSF Senior Advisor**
 - She is the Senior Science and Technology Advisor at CNS and CISE, and Director of the Next Generation Software Program
- **Pasquale Pagano – CNR/ISTI, DILIGENT Technical Manager**

- **DILIGENT demonstrated**
 - that grid-enabled infrastructures improve the support to any **Virtual research Community**
 - Scientific data (the very **eScience**) and images and documents (the so-called **eArts** and **eHumanities**) can be managed in a similar way
- **DILIGENT provided gCube, an application framework,**
 - Based on a set of second-level grid services that **reduce the effort** in managing WSRF resources and **improve the capabilities** of a grid-based infrastructure (the so-called COLLECTIVE LAYER)
 - A superset of basic WSRF services that can support in creating Digital Libraries for **managing and sharing** any type of content (a generic data model was also defined)

- Could **a unique e-Infrastructure** be conceived to support eScience, eArts and eHumanities?
- Is it credible that **Virtual Research Communities collaborate on sharing** any type of data?
- No security or privacy issues ? (see pharmaceutical research) – How to deal with **data in business-driven research**?
- What should be the next steps for having a **strategy/roadmap** for developing such e-Infrastructure?
- Should such e-Infrastructure be an **EU or Global initiative**?



www.diligentproject.org

Diligent A Digital Library Infrastructure on Grid Enabled Technology

From documents into computers to Content across elnfrastructures

Home Thursday, 10 May 2007

Welcome to diligentproject.org

The DILIGENT project is creating an advanced test-bed that will allow virtual e-Science communities to share knowledge and collaborate in a secure, coordinated, dynamic and cost-effective way.

The DILIGENT test-bed will be built by integrating **Grid and Digital Library (DL) technologies**. Merging of these different technologies will lay the foundations for a next generation e-Science knowledge infrastructure with many different research and industrial applications.

The test-bed will be demonstrated and validated by two complementary real-life application scenarios: one from the **environmental e-science** domain and one from the **cultural heritage** domain. The first user community is composed of representatives from leading organisations that operate in the environmental sector; the second consists of scholars, distributed all over the world working together in a three-year project to merge the medical, humanity, social science and communication research areas.

The DILIGENT infrastructure, which will build upon the efforts of the EGEE project, is funded in part by the European Community's Information Society Technologies priority of the Sixth Framework Programme.

You are invited to explore our website to learn more about DILIGENT, the people behind the project and our objectives and activities.

gCube

gCube, the middleware that powers the DILIGENT testbed, is currently under the beta release integration phase. More info will be available soon on the gCube web site <http://www.qcube-system.org/>

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