

**Primeur Weekly 12
September 2005**> **Special**

> German Ministry of Education and Research (BMBF) grants 17 million euro to set up national D-Grid infrastructure

> A Grid for biomedical applications: Medi-Grid

> C3 Grid - Collaborative Climate Community Data and Processing Grid

> **EuroFlash**

> Capital FX speeds 2K and 4K work flow on major Hollywood movies using SGI InfiniteStorage technology

> On-demand licensing flexibly covers peak loads in the Dynamic Data Center

> Rhozet introduces the Graphite MPEG Grid Encoder

> Cray and Celoxica make reconfigurable computing easier to program


> DataSynapse implements GridServer for BNP Paribas' global structured credit group

> Austria public broadcaster ORF selects SGI technology for central editing storage

A Grid for biomedical applications: Medi-Grid

Berlin 12 September 2005 *The German Ministry of Education and Research - Bundesministerium für Bildung und Forschung (BMBF) - has awarded 17 million Euro for D-Grid. One of the projects is Medi-Grid. The project will be managed by TMF (Telematikplattform für medizinische Forschungsnetze) and will support medical researchers with Grid technology to improve collaboration amongst researchers.*

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Advancement in biomedical research is more and more dependent on close collaboration between teams using combinations of large datasets and databases in different locations. In the German Medi-Grid project, Grid technology will be used to create a seamless platform for researchers that is cost-effective and always available. This Grid platform for eScience will be managed by defining policies (who is allowed access to which resources and how much computing time may be used). Access to individual resources is then handled by the Grid software.

In biomedical research, genotypic and phenotypic data in many dimensions is used. Through statistical methods correlation between the data are found and new scientific knowledge is created.

Medi-Grid will provide services to researchers. These Medi-Grid services are built on general Grid services defined by the D-Grid Integration project.

Medi-Grid will help developing a community of medical and biomedical researchers and IT specialists in Germany. The community will exchange experience in using the Grid and help in the creation of new ideas and applications.

The German Telematics Platform (TMF) will play an important role in managing this community of medical Grid users. There will also be a strong relation with the "Nationalen Genomforschungsnetz" (NGFN), and several other competence networks. Through these networks there is also a relation with patient care and other telematic projects.

The Medi-Grid project will focus on three areas:

- Image processing

EnterTheGrid - Primeur
James Stewartstraat 248
1325 JN Almere
The Netherlands
<http://www.hoise.com/primeur>
<mailto:primeur@hoise.com>

infrastructure

> Danish Broadcasting Corporation extends asset management capabilities with third SGI InfiniteStorage system

> German public broadcaster SR to increase efficiencies including shorter time-to-air using SGI InfiniteStorage and broadcast systems

> SGI and DVS enhance production work flow for film studios and digital intermediate facilities with integrated HD and data management products

> SGI delivers more compact, digital media-ready system for film industry and broadcasters

> IBM signs 1.5 billion euro contract with ABN AMRO to manage infrastructure services

> **USFlash**

> Cray XD1 supercomputer delivers three times more power to reconfigurable computing applications

> University of Florida's Advanced Computing and Information Systems Lab turns

- Biomedical Informatics
- Clinical research.

These three areas are supported by four methodological modules:

- Middleware
- Ontology tools
- Resource fusion
- eScience

Two parallel processes will be started that are designed to strengthen each other: a stepwise introduction and building of prototypes of the Grid; and a community driven institutionalised learning effort and programme. This should lead to early convergence in experience and synergy in activities.

This very practical approach and the co-operation model used is expected to lead to an efficient use of the medical Grid in Germany and one that is economically viable.

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