

CoreGRID: European Research Network on Foundations, Software Infrastructures and Applications for large scale distributed, GRID and Peer-to-Peer Technologies

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The concept of Network of Excellence within FP6

- The aim of NoEs is to create very significant, long lasting integration – the creation of ‘Virtual Research Institutes’
- To overcome the fragmentation of EU research by fostering long-term integration of research programmes and capabilities of the participants, creating a world-class scientific resource
- Participants will require:
 - Commitment to integration of capabilities and resources
 - Capability to contribute to a joint research programme
 - Autonomy to re-align their research agenda with the NoE
- Important keywords: **INTEGRATION / SUSTAINABILITY**

CoreGRID objectives

- To build a European-wide research laboratory
 - To avoid fragmentation of Grid research activities in Europe
 - Create the European “Grid Lighthouse” and be seen as such worldwide
 - To achieve integration and sustainability
- To build solid foundations for GRID and P2P technologies
 - Both on a methodological basis and a technological basis.
 - Support medium and long term research activities
- Achieve and promote scientific and technological excellence within & beyond the Grid research community
- Gather and disseminate European research
- A think-tank for spin-off projects
 - EC funded, bilateral projects, international cooperations, ...



CoreGRID membership

42 partners
 18 Countries (1 from S. America)
 120 Researchers
 165 PhD Students

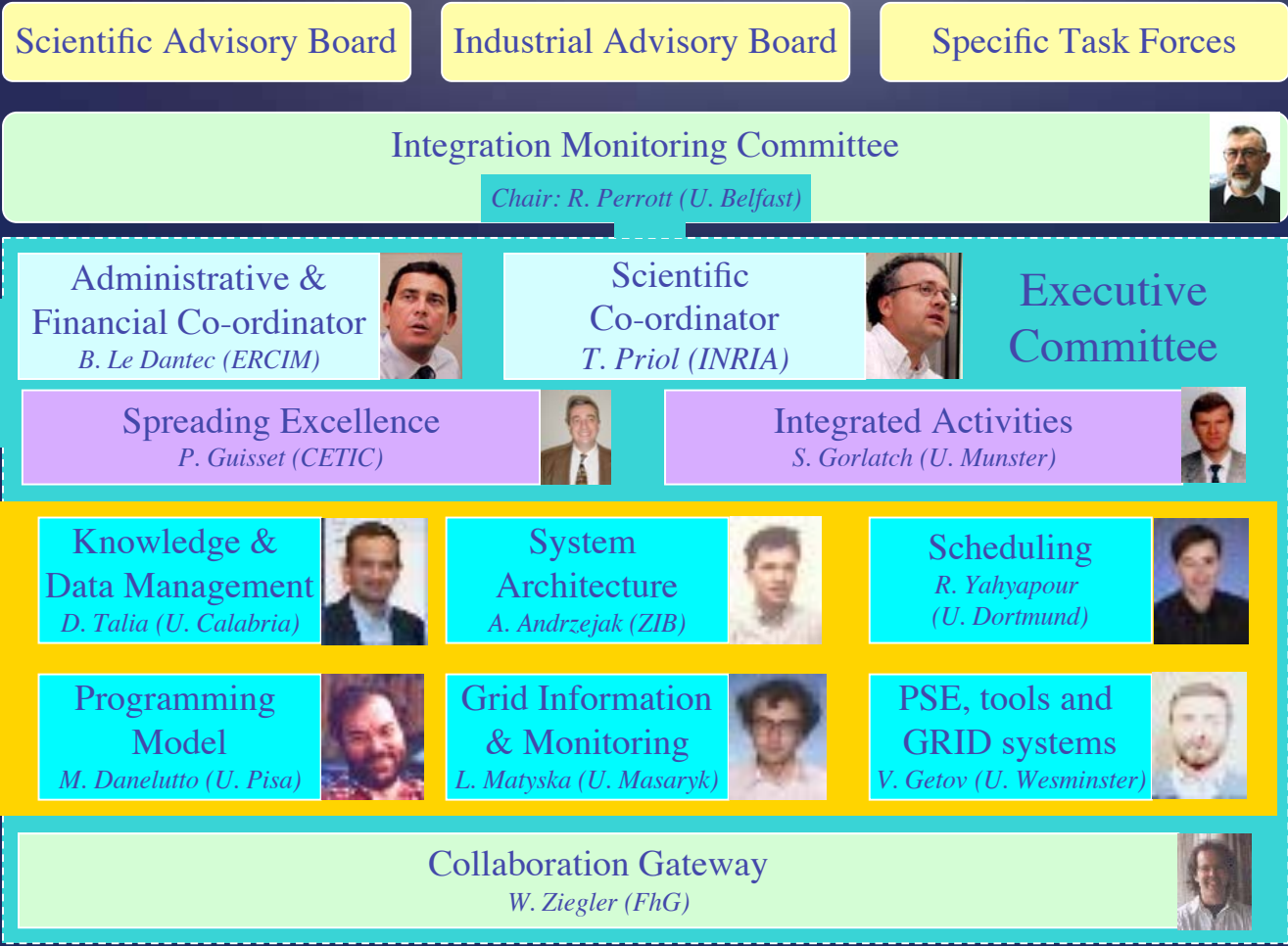


The Members General Assembly (MGA)

At the beginning of the kick-off meeting, Ch. Chardier, September 04 '04



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Joint Program of Activities

Sergei Gorlatch



Integrated Activities

Coordinated Programming of Partners' activities

Coordinated approach to prepare project proposals

Internal Collaboration and Dissemination

Annual Integration Workshop

Common Understanding Trust & Security

Grid Testbed

Mobility of researchers

Domenico Talia



Marco Danelutto



Artur Andrzejak



Ludek Matyska



Ramin Yahyapour



Vladimir Getov



Joint Programme of Activities

Jointly Executed Research

Knowledge & Data Management

Programming Model

System Architecture

Grid Information and Monitoring Service

Resource Management And Scheduling

PSE, tools and GRID systems

Pierre Guisset



Spreading of Excellence

Public Website

Technical reports

Workshops & conferences

Industry

GRID User community

Newsletter

Conferences

Brochures

Training & Education

Durable mobility of researchers

- Internal mobility is essential for integration
- Ensure stronger co-operation among partners, promote career development and mobility
- 2 activities :
 - Fellowship Programme - Young researchers hosted by two institutes for two distinct periods ~ 600 k€
 - Research Exchange Programme - Researcher or student from 1 member to another, two weeks to six months~ 480 k€
- Search for external sources of funding is also needed, e.g. the Marie-Curie-Programme
- Mobility web portal available at the CoreGRID web site

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Login Form

Mobility Portal



Encourage exchange of personnel and staff mobility

The Network have a specific mobility programme, and allocates substantial funding to it, aimed at encouraging researchers, post-docs and PhD students to stay, for a given period, in research teams of Network participants. This mobility programme fosters better relationships between network researchers and increases the effectiveness of the Network.

The **mobility for the researchers** will consist of scientific visits and research stays between members of different CoreGRID institutions, as for example those involved in the same WP research task. Typical stays will be of one month, although other durations could be considered. For each stay a joint proposal from the visitor and hosting institutions should be presented, describing a project summary about the interest of the stay.

the CoreGRID **Fellowship Programme** (FP) is inspired by the Marie Curie Actions and the ERCIM Fellowship Programme. Young researchers hosted by one or two research facilities for two distinct 6, 9 or 12 months periods, will be funded by the CoreGRID Fellowship Programme to closely interact with major researchers and leading scientific communities. The Fellows will participate in regular in-house discussions and seminars and contribute to the CoreGRID effort in order to integrate scientific activities and dissemination across Europe.

The FP is intended for postgraduate students who want to work in research groups involved in CoreGRID activities. The successful Fellows must agree to engage in the research topic proposed by one or both of the hosting Institutions

In addition to the training activities, the FP will promote **career development**, ideally within the network to preserve excellence in the research environment.

Last Updated (Wednesday, 19 January 2005)

Newsfeeds

The Grid Report
Tue, 26 Apr 2005 15:59
IBM developerWorks Grid computing zone
Tue, 26 Apr 2005 16:00

developerWorks

During the GlobusWORLD conference in Boston, developerWorks, together with writer Hal Hensley, had an opportunity to sit down with Ken King, vice president of IBM Grid computing. We engaged in a wide-ranging discussion regarding the state of grid computing and IBM's current activities, positions, and ideas on this front.

[Interview: Ken King on the state of grid computing](#)

Hit Counter

100672 Visitors

A set of well identified research challenges

Knowledge & Data Management

- Handling information/data that are required/produced by a wide range of diverse processing power

Programming Model

- Making the programming of Grid infrastructures as simple and transparent as possible

System Architecture

- Designing the next generation Grid middleware

Grid Information and Monitoring Services

- Scalable information service to implement a service view of the Grid

Resource Management & Scheduling

- Scheduling jobs/applications/tasks/computation within a Grid environment

Problem Solving Environments, tools and GRID systems

- Integrating various middleware, tools and applications for problem solving

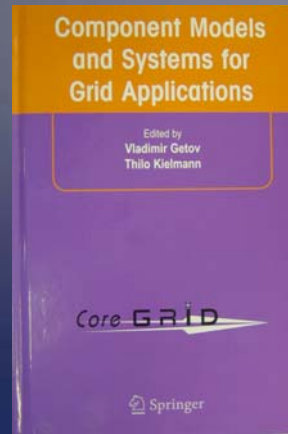


Spreading Excellence



<http://www.coregrid.net>

Internal and External
Communication
June 14, 2005: 148,000 Visitors



Books



Technical Reports



Brochure



Spreading Excellence

Grid Users Community

Electronic mailing list, Scientific – Industry - Public

Newsletter

Quarterly

Nr. 1: February 2005

Nr. 2: May 2005

next issue: September 2005

Editorial board

Sent to the GUC



European Grid Conference

EGC'2006 in June 6-7, 2006

4 days program

Grid project Launch event (IST Call 5)

Conference (2 days)

Grid concertation meeting (1 day)



And More...

Grid Summer School

First at EPFL, Lausanne, Switzerland, 5-9 September 2005
Targeted to young computer science PhD students
Expected participation: 100 researchers

Workshops

NCOS Workshop, Brussels, March 16-17, 2005
Integration Workshop November, 28-30, 2005 in Pisa (IT)





Conclusion



CoreGRID started in September 1st, 2004

- A very active project although it is in its early stage
- Funding from the EC: 8.2 M€ for the first 4 years
- Involvement of the main European Key players in Grid computing (both institutions and researchers)
- The only one Network of Excellence in Grid funded by the EU



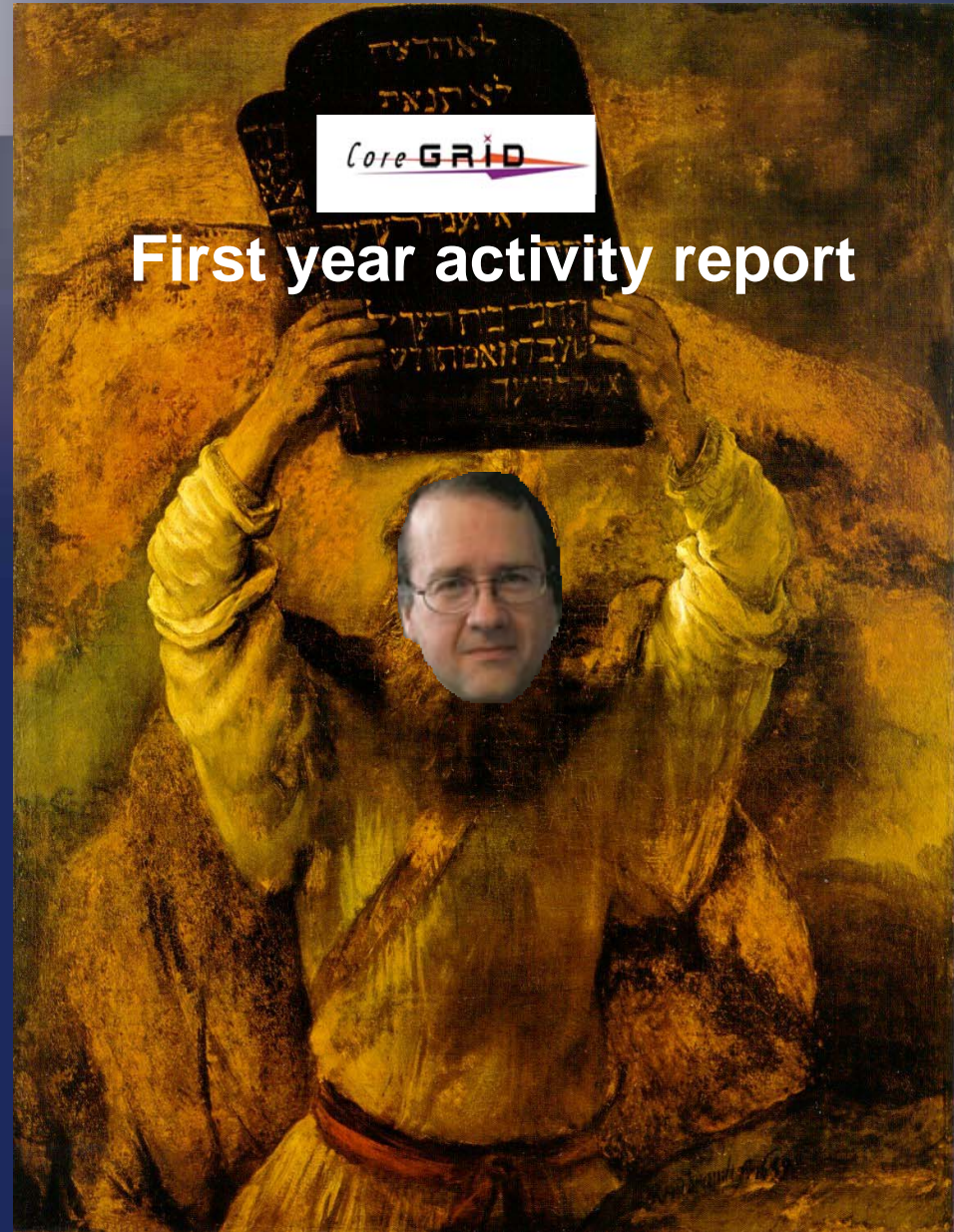
The CoreGrid 4-Year Grid Sea Exodus....



Mose and his Prophets

A Personal interpretation of the famous painting:

Mose
1659, Rembrandt
Harmenszoon Van Rijn
Staatliche Museen Berlin





THANKS !

<http://www.coregrid.net>
