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Summary:

EUAsiaGrid aims to encourage collaborative approaches across scientific disciplines and communities

1. foster e-Infrastructure provision in the region,
2. support scientific communities through help with application porting and deployment,
3. provide training to widen dissemination of the technology know-how,
4. as well as to monitor the results and feed back into policy definition.

Objectives:

- Identify and engage scientific communities which can benefit from the use of state-of-art Grid technologies
- Disseminate EGEE middleware in Asian countries by means of public events, written and multimedia resources
- Provide training resources and organise training events for potential and actual Grid users;
- Support the scientific applications and create a human network of scientific communities by building

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	Expected Results:		
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- Offer an effective proposal to fulfill the demanding computing and storage needs of several com

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- Foster the induction of new user communities to the e-Science Grid infrastructure;

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- Enhance the scientific communities and applications running the gLite middleware;

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- Build partnerships between European and Asian scientific communities, to contribute to the scie

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-Coordinate a common policy towards a common e-Science infrastructure with the other European Grid ini

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	Applications:		
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The EUAsiaGrid project initially supports 6 applications areas:

	Project acronym	: EUAsiaGrid	
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	Contract n°	: RI-223791	
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	Project type:		
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Specific Support Action

	Start date:	01/04/2008	
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	Duration:	24 months	
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	Total expected budget	ãuro;1,437K	
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	Maximum EC Contribution		
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ãeuro; 920K

	Websites:		http://www.euasiagrid.org/
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		http://www.euasiagrid.eu/	
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Project Partners:

INFN IT
CESNET CZ
NCeSS UK
HealthGrid FR
AdMU PH
ANU AU
ASGC TW
ASTI PH
HAI TH
IDA SG
IOIT-HCM VN
ITB ID
NECTEC TH
UPM MY
MIMOS MY
IFI VN
NUS SG

Key Words: Grid, e-Science

Collaboration with other EC-funded project:

EGEE
EU-IndiaGrid
EUChinaGRID
EGI_DS Project

- **High Energy Physics (ATLAS, CMS)**

The established user communities considered in this activity are those collaborating on the LHC (Large Hadron Collider) experiments in the field of high energy physics and those sharing the same scientific applications. ATLAS and CMS experiments at LHC, currently under construction at CERN, will start taking data in 2008 and a strong group of Asian scientists is actively participating to the

experiments.

- **Computational chemistry**

Computational chemistry represents another important scientific area whose requirements are complementary to the HEP

community. It will also provide a bi-directional feedback to the EGEE III and provide a way of direct communication between Asian and European community.

- **Mitigation of natural disasters**

e-Infrastructure could support the sharing of large scale monitoring, observational data and risk management collaboration. Roadmap to build up a grid-based global facility for hazard mitigation and recovery is planned.

- **Bioinformatics and Biomedics**

Biomedical research laboratories are moving towards an environment created through the sharing of resources, in which heterogeneous and dispersed Bio- and medical data can be generated by large scale analysis. This application can serve as a model of collaboration between Asian and European partners linked through the gLite middleware and EGEE infrastructure.

- **Social Science Applications**

Through the application of technology academics are able to test theories of social behaviour at a real world scale, while planners can evaluate alternative planning scenarios within a laboratory environment.

- **Promoting new scientific communities to the use of the Grid**

The EUAsiaGrid project will also actively search for and identify new scientific communities that can benefit from grid computing and storage approaches. The major selection criteria will be relevance of the scientific discipline for the Asia Pacific region, the international (global) scope and the value added to the scientific research through use of EGEE infrastructures.

International Dimension:

EUAsiaGrid aims to provide specific support actions to foster the integration of the Grid infrastructures in Europe and Asia for the benefit of the many diverse scientific communities which have active partners in both continents.

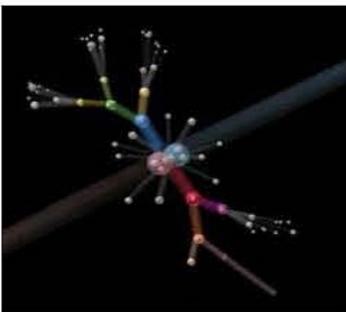
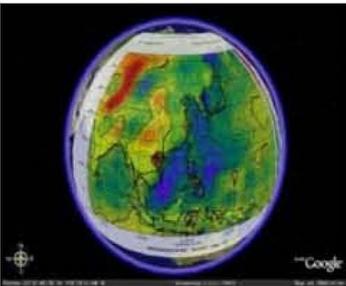
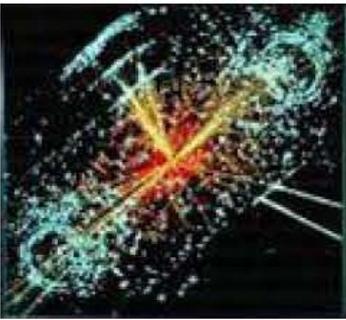
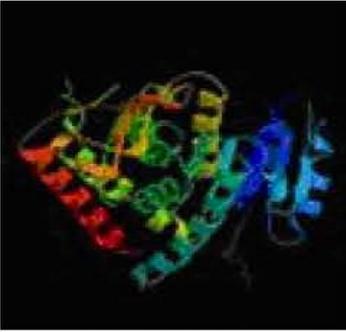
Innovation:

The EUAsiaGrid project promotes the development of new research and innovation strategies and fostering the growth of regional communities using applications already available on the Grid as well as applications in new areas.

Deployment Plan of EUAsiaGrid:

The project will build on the results, competence, and proven ability of the EGEE projects, using also results of the EGI_DS project, and contribute to the aim of extending the EGEE Grid infrastructure for e-Science to the Asia region, following the recommendation that *“Europe will continue collaborating with similar initiatives in other continents and seek to develop common intercontinental policies”*.

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