

Dissemination and Exploitation of GRids in Earth scienceE

DEGREE

DEGREE is a Specific Support Action (SSA) project which aims to promote GRID throughout a large and diverse Earth Science (ES) community, in order to increase the awareness and uptake of GRID technology and infrastructure by EU Earth Science Industry and Research communities. It aims to do this by developing and driving home convincing arguments on the considerable benefits of using GRID technology and infrastructures for large scale ES processing, e-collaboration and research. Although several Earth Science applications have been ported on GRID infrastructures since 2000, GRID technology is still undergoing development and the Earth Science community is very reluctant to deploy their applications on it. Therefore, DEGREE also seeks to address the barriers which stand in the way of a wider uptake of the technology, such as perceived complexity of the middleware, insufficient support for important ES functions and vital additional services.

A major challenge for DEGREE is to build a bridge linking the ES and GRID communities throughout Europe, and focusing in particular on the EGEE-II Project. An ES applications panel with a range of candidate applications suitable for porting to GRID will make sure key ES requirements for porting and deployment on the GRID middleware are identified, communicated and discussed within the GRID community. At the same time the DEGREE SSA will ensure the ES community is informed and up to date on GRID developments and potential benefits.

The results will provide feedback to the GRID community and dissemination in the ES community will increase awareness of and involvement with GRID developments.

In order to ensure that ES requirements are taken into account in the next Grid generation, DEGREE will initiate different collaborations; at short, medium and long term via EU horizontal collaborations, specific collaboration with Grid projects and participation to the e-Infrastructure Reflection Group (e-IRG).

Objectives:

- Disseminate, promote uptake of Grid in wider ES community
- Reduce the gap between ES users and Grid Technology
- Explain and convince ES users of Grid benefits and capability to tackle new and complex problems.

Project partners

Organisation name and country

Ustav informatiky, Slovenska akademia vied	SK
Centre National de la Recherche Scientifique	FR
Koninklijk Nederlands Meteorologisch Instituut	NL
Université de Neuchâtel	CH
Centro di Ricerca, Sviluppo e Studi Superiori in Sardegna Societa' a responsabilita limitata	IT
European Space Agency	INT
Compagnie Générale de Géophysique	FR
Dutch Space BV	NL
Fraunhofer Gesellschaft zur Foerderung der angewandten Forschung E.V.	DE
Geophysical Center, Russian Academy of Sciences	RUS



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Type of project
Specific support action

Project coordinator
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Project website
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Maximum Community Contribution to project
EUR 1 000 000

Project start date
1 June 2006

Duration
24 months