

# GRID@ASIA

## Scope

The Grid@asia project is **fostering collaboration between the European Union and Asia** in the field of Grid research and technologies. This initiative is focusing on stimulating scientific cooperation with China and South Korea, before potentially expanding its geographical coverage to reach out to other Asian countries.

To this end, Grid@asia activities are relying on **three major steps**:

- Identification of the Chinese and South Korea key players in Grid research and technologies.
- Organisation of focused workshops around EU/Asia research and industrial agendas.
- Establishment of sustainable cooperation and dissemination activities.

This initiative builds on the local support of the Asian partners to ensure on-site organisation, links to the national Grid programmes, enhanced visibility in Asia and the participation of high-profile industrial and scientific Grid delegations.

## Advances

Relying on three core players in Asia (Beihang University and the Shanghai Jiao Tong University in China, and the Korea Institute of Science and Technology Information, KISTI Supercomputing Center in South Korea), Grid@asia has been rapidly federating and integrating many of the leading Chinese Grid stakeholders within its activities, as well as within the main Grid programmes.

Grid@asia promoted joint collaborations in Calls for Proposals in the EU's IST FP6 Programme.

In particular, the IST Call 5 on Grid Technologies resulted in a first group of projects with joint collaborations with Chinese partners, while the IST Call 6, that specifically addressed International Cooperation on Grid Technologies with China, received a large number of proposals for collaborations between major EU and Chinese Grid initiatives. Finally, Grid@asia promoted the new European Commission Framework Programme 7 (FP7) inviting Asian teams to collaborate to joint proposals.

## Positioning in global context

By strengthening cooperation between both communities, Grid@asia has built strong links with the Grid community in the two Asian countries involved, and prepared the first steps towards a solid foundation for sustainable and long-term collaboration.

The first workshop organised in Beijing focused on Grid research activities and allowed for the establishing of contacts and exchange information among European and

Asian teams in the field. A second workshop in Shanghai focused on building collaborations among the main EU and Asian Grid initiatives, with a particular emphasis on concrete and exploitable Grid applications. The third workshop organised in Seoul focused on Grid applications and displayed Grid demonstrations as well as showcases, while promoting the launch of FP7 and supporting its new strategic priorities.

By weaving additional links between European and Asian Grid research communities, Grid@asia supported long term international cooperation, in particular through the collaboration between the main Asian Grid programmes with leading European Grid initiatives (such as networks of excellence, integrated projects and STREPS), both within FP6 and FP7.

## Contribution to standardization and interoperability issues

The sharing of scientific experience between European and Asian projects facilitated by Grid@asia actions and the extensive use of open source software, is contributing to the joint definition and adoption of Grid standards. This supports the European Grid community in efforts to disseminate its technology and promotes the adoption of common Grid standards worldwide.

## Target users / sectors in business and society

Potential users may be:

- End-users: research institutes both in Europe and China
- Policy makers: in China, Korea and Europe

## Overall benefits for business and society

During the two years of the project, through (i) the meetings and workshops organised by the Grid@asia project, (ii) the presentation of the project activities during other EC projects meetings and (iii) formal or informal meetings and e-mails exchanges, many people from the research and industrial sectors had the chance to meet to discuss their past Grid activities and future vision in the field. The Grid@asia actors provided all kind of information and helped people in finding the proper person in the Grid Arena. In addition, the presentations given by the Industrials at the workshops were often a first step towards business development in the Asian market.

## Achievements

- Grid@asia gave the opportunity to European and Asian projects and networks already established to meet and define more accurately a global Grid vision at an international level to promote interoperable technologies. The sharing of scientific experiences facilitated by the Grid@asia actions and the extensive use of open source software, is contributing to the joint definition and adoption of Grid standards.
- The project participated to the dissemination of the European common Grid research agenda in Asia. This agenda was confronted to the Asian Grid vision and helped to determine Grid priorities at the Chinese and Korean level.
- Both public and private sectors were involved to support technology adoption of the Grid technologies by the industrial communities in Asia. Representatives from developed countries from Asia (Japan and Singapore) and focused industrial companies or enterprises association participated to lead additional collaboration and business development.
- Grid@asia short-term objective was to raise the level of knowledge from both communities. This was achieved through the 3 events which attracted about 90 to 200 participants.
- At the occasion of the 3 events organised in Beijing, Shanghai and Seoul, national and international initiatives and programme on Grid technologies were discussed. These discussions lead to the preparation and editing of a short report: "Catalogue of Grid Initiatives and projects: Europe, China & South Korea" available on the Grid@asia web site.
- Grid@asia longer-term objective was to encourage, thanks to existing Grid projects and new EC calls for proposals, Asian participation to European Commission funded projects. Following Calls 5 and 6 of FP6, efforts have paid off with 8 European projects involving Chinese teams.



### title

Advanced grid research workshops through european and asian co-operation

### contract number

015994

### type of project

Specific Support Action

### contact point

Patricia Ho-Hune  
GEIE ERCIM, FR  
E-mail: [patricia.ho-hune@ercim.org](mailto:patricia.ho-hune@ercim.org)

### project website and partner list

<http://www.gridatasia.net/>

### EC contribution

300 000 €

### start date

01/04/2005

### duration

22

