Grid-enabled know-how sharing technology based on ARC services and open standards

**Objectives**

- To create a novel, powerful next generation Grid middleware, widely respected for its simplicity, non-invasiveness and cost-efficiency.
- To promote Grid standardization and interoperability.
- To contribute to Grid technology take-up, bridging the gaps between business and academia in Grid development.

Our solution is based on ARC Grid middleware by NorduGrid, which is production-quality software in terms of stability, low operational costs, ease of use, portability, and performance. Being simple in installation and usage, it has the potential to attract users outside of the current Grid community.

Specific targeted research project
Duration: June 2006 to November 2009
Contact: pressoffice@knowarc.eu

KnowARC Grid solution is ready to be used by non-Grid experts in a variety of application areas.

**KnowARC challenges**

Grids are proven to increase productivity and lead to efficient use of computer resources, especially in collaborations among several partners who do not share the exact same computational infrastructure. However, Grids are currently used mainly by experts, and often in narrow communities. Relatively few organizations outside of the scientific Grid community benefit from the technology.

Our challenge is to produce Grid software that is easy to operate and use, is portable, stable, and adheres to international standards. Our Grid solution must be ready to use out of the box, being a research vehicle and a know-how sharing tool that needs no extensive technology expertise to use and operate.

KnowARC is drawing to an end, but due to its successes, ARC will continue. NorduGrid, the original collaboration behind ARC, will continue to provide support for ARC. ARC has also been selected as part of the European Middleware Initiative proposal, which brings ARC together with the gLite and Unicore middlewares to provide components for the new European Grid Initiative.

www.knowarc.eu