The next generation Grid

NextGRID

The NextGRID project will seek architectural solutions that streamline all aspects of Grid operation: installation and maintenance of the infrastructure, development and deployment of Grid applications, user orchestration of the resulting resources, and operation of business models and processes through which the use of Grid technology can be made economically viable.

The **goal** of NextGRID is to develop architectural components that will lead to the emergence of the next generation Grid. This will prepare the way for the broader use of Grid technologies and their widespread adoption by organisations and individuals from the business and public domains. This widespread use will be a significant step towards meeting the vision of ERA (European Research Area).

NextGRID will extend current Grid architectures in **three phases**:

(1) meeting the needs of business users: by addressing security and economically viable business models;

(2) enabling participation by the public: by addressing legal and privacy issues, and making the Grid more scalable and usable;

(3) consolidating and standardising these enhancements and stimulating take-up.

NextGRID regards these objectives as a community effort and will focus on inspiring, through specific innovations and technical leadership, key progress in open Grid standards. The project intends to provide the key initiatives for success, but expects to encompass the much wider body of work needed to define, agree and implement the next generation Grid.

The **overall result** of the project will be a collection of new architectural designs, key middleware components, application support mechanisms, know-how and standards that will underpin the next generation Grid. NextGRID will be a key step towards realising the vision of the Grid and making it as ubiquitous as the Web is today.

Project partners

Organisation name and country

UNIVERSITY OF EDINBURGH	UK
UNIVERSITY OF SOUTHAMPTON	UK
INTEL GMBH	DE
BRITISH TELECOMMUNICATIONS PLC	UK
DATAMAT S.P.A.	IT
FUJITSU LABORATORIES OF EUROPE LIMITED	UK
FORSCHUNGSZENTRUM JUELICH GMBH	DE
GRID SYSTEMS S.A.	ES

continued overleaf

Contract number
511563

Type of project
Integrated project

Project coordinator
EPCC – University of Edinburgh

Contact person
Dr Mark Parsons
James Clerk Maxwell Building
Mayfield Road
Edinburgh EH9 3JZ
United Kingdom
m.parsons@epcc.ed.ac.uk

Project website
http://www.nextgrid.org/

Maximum Community Contribution to project
EUR 11 000 000

Project start date
1 September 2004

Duration
48 months

Information Society Technologies

European Commission

UNIVERSITAET STUTTGART	DE
KUNGLIGA TEKNISKA HOEGSKOLAN	SE
EUROPAEISCHES MICROSOFT INNOVATIONS CENTER GMBH	DE
NEC EUROPE LTD.	UK
INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS	EL
THE QUEEN'S UNIVERSITY OF BELFAST	UK
SAP AG	DE
T-SYSTEMS INTERNATIONAL GMBH	DE
UNIVERSITEIT VAN AMSTERDAM	NL
CONSIGLIO NAZIONALE DELLE RICERCHE	IT
FIRST DERIVATIVES PLC	UK
KINO ANON COMPANY OF CINEMA AND TV MOVIES	EL
HEWLETT PACKARD ITALIANA SRL	IT
STIFTUNG CAESAR (CENTER OF ADVANCED EUROPEAN STUDIES AND RESEARCH)	DE