EU-IndiaGrid2

Summary: EU-IndiaGrid2 - *Sustainable e-infrastructures across Europe and India* capitalises on the achievements of the FP6 EU-IndiaGrid project and huge infrastructural developments in India. EU-IndiaGrid2 will act as a bridge across European and Indian e-Infrastructures, leveraging on the expertise obtained by partners during the EU-IndiaGrid project. EU-IndiaGrid2 will further the continuous e-Infrastructure evolution in Europe and India, to ensure sustainable scientific, educational and technological collaboration across the two continents. The project, approved within the call FP7-INFRASTRUCTURES-2009-1, starts in January 2010 with a duration of 24 months.

Objectives:

O1) Consolidate & enhance cooperation between European and Indian e-Infrastructures for the benefit of EU-Indian collaboration in e-Science

O2) Support specific user communities in the exploitation of grid infrastructure in areas strategic for EU-Indian collaboration

O3) ensure a sustainable approach to e-Infrastructures across Europe and India through dissemination actions, meetings & workshops

O4) foster and enhance cooperation with other European Initiatives in the Asian region and worldwide

Action plan: EU-IndiaGrid2 will leverage on the EU-IndiaGrid project achievements and the strong cooperation links established with the foremost European and Indian e-Infrastructure initiatives paving the way for successful sustainable cooperation across European and Indian e-Infrastructures. EU-IndiaGrid2 aims to achieve sustainable EU-Indian e-Infrastructure cooperation by supporting a set of relevant applications, promoting their results, as well as the benefits and impacts of e-Infrastructures for Euro-Indian collaboration. In particular EU-IndiaGrid2 will address relevant Institutions and policy makers relying on the leading role of its partners in e-Infrastructure activities both in Europe and India

Support activities: The project responds to the call objective "*To promote international interoperation between the e-Infrastructure and similar infrastructures from other regions (e.g. USA, China, India, Mediterranean etc) with the aim of reinforcing the global relevance and impact of European e-Infrastructures*" by articulating activities into four main work packages.
Liaison with other Projects & Organisations (WP2) will pursue cooperation activities with the most relevant e-Infrastructure initiatives and Institutions both in Europe and India, capitalising on the leading role of its partners in the most relevant European & Indian e-Infrastructures projects and on the close links already established with projects and relevant actors by the EU-IndiaGrid project. **WP3**, **Operational infrastructure and interoperability support**, will deliver support to the Interconnection and Interoperation of e-Infrastructures across Europe (EGEE -EGI) and India (WLCG, GARUDA and National Knowledge Network (NKN)). **WP4**, **User communities support**, will sustain a set of applications within user communities strategic for EU-Indian collaboration fostering the benefits of technology achievements on scientific collaborations. Close cooperation with WP2, WP3, WP5 will contribute to identifying and performing the necessary actions to favour optimal resources exploited by such user communities, thus contributing to *the emergence of sustainable approaches for the provision of cross-disciplinary research services.*

continued overleaf

Project acronym: EU-IndiaGrid2

Contract n°: RI-246698

Project type: CSA-SA

Start date: 01/01/2010

Duration: 24 months

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Funding from the EC: 740000 €

Total funded effort in person-month: 162

Web site: www.euindiagrid.eu

Contact person: Alberto Masoni
email: alberto.masoni@ca.infn.it
tel.: +39 070 6754900
fax.: +39 070 510212

Project participants:

INFN	IT
Cambridge Univ	UK
CEA	FR
Consortium GARR	IT
TRUST-IT	UK
ICTP	IT
BARC	IN
CDAC	IN
ERNET	IN
IISc	IN
IIT	IN
Pune Univ.	IN
SINP	IN
TIFR	IN
VECC	IN

Keywords: e-Infrastructures, grid computing

Collaboration with other EC funded projects: EGEE3, EELA2, EUMEDSUPPORT,

Sustainable e-Infrastructures across Europe and India - RI

European Commission
Information Society and Media

WP5, Communication and Awareness raising will reinforce the global relevance and impact of the results achieved by the project and will contribute to increasing awareness and use of joint e-Infrastructures, identifying engaging and supporting a Euro-Indian e-infrastructure community and *reinforcing the global relevance and impact of European e-Infrastructures*.

User communities: EU-IndiuaGrid2 targets a number of user communities in the project:
Climate change is a worldwide concern and climate change studies are among the priorities in European and Indian research programs. In particular climate change is one of the flagship activities within the NKN program. EU-IndiaGrid2 aims to support climate change modelling studies on European and Indian e-Infrastructures thanks to the involvement of premier research groups with leading international reputations and a solid collaboration basis enhanced and strengthened in the course of EU-IndiaGrid.
High Energy Physics through the Large Hadron Collider (LHC) program represents one of the unique science and research facilities to share between India and Europe in the field of Scientific Research in general and in the ICT domain in particular. The role of the EU-IndiaGrid project in this specific activity has been again widely recognised at the highest level and EU-IndiaGrid2 will an important role in sustaining this community.
Biology and Material Science: these broad areas require computational tools and techniques spawning different disciplines: they will challenge the project in setting up and providing cross disciplinary research services. The successful work of its predecessor EU-IndiaGrid, performed in these areas, allowed the establishment and the reinforcement of relevant EU-Indian collaborations supported by premier Institutions within the Consortium.
The enlargement of such significant user communities is the key to sustainability since motivate the e-Infrastructures existence and then drive their development. EU-IndiaGrid2 will sustain a set of applications strategic for EU-Indian collaboration which can exploit the possibilities offered by network and grid infrastructures.

International aspects: EU-IndiaGrid played an internationally recognised bridging role between European and Indian e-Infrastructures bringing forward EU-Indian collaboration in e-Science and effectively mobilising actors on both sides. EU-IndiaGrid2 will continue the strong cooperation links established by EU-IndiaGrid with the most relevant projects and institutions e.g. EGEE/EGI, GEANT and the major Indian e-Infrastructure Initiatives – GARUDA, Indian National Grid Initiative and National Knowledge Network. It will also cooperate with EU funded regional projects like EELA2, EuAsiaGrid, SEEGRIDSCI and EUMEDSupport-GRID.