

## EU-IndiaGrid - Sustaining and enabling interoperability between Europe and India

*Advancing the Frontiers of Scientific Research*

### Launch Event – Indian Institute of Technology Delhi – 11/1/2010

Climate change and world-wide health threats are two of the grand global challenges which can be effectively addressed only through co-operation worldwide. Investment in e-Infrastructures is enabling collaborative research across national borders. Innovative large-scale science relies on new methods for complex problem solving underpinned by Grid Computing, which provides computing and data resources to researchers all over the world with modest investments in local infrastructures.

Both Europe and India embrace this vision of a worldwide grid for research as it effectively responds to the need for scientific collaboration in a networked world to address grand global challenges. “*EU-IndiaGrid has proven to effectively mobilise actors on both sides for the benefit of the research community*”, says Ms Viviane Reading, European Commissioner, Information Society and Media in recognition of the instrumental role of the EU-funded EU-India Grid initiative in fostering international co-operation with scientific challenges high on the agenda.

“*The EC-funded project EU-IndiaGrid2 (2010-2012) builds on the achievements of the original EU-IndiaGrid initiative by improving the interoperation of e-Infrastructures and Grids between Indian and European Grid initiatives, supporting the development of sustainable e-Infrastructures across Europe and India.*” Alberto Masoni, Director of Research at INFN – the Italian National Institute of Nuclear Physics & EU-IndiaGrid Project Manager.

“*The EU-IndiaGrid project has allowed Indian scientists to access major European and Indian Grid infrastructures exposing them to grid technology. India is effectively participating in the major international experimental programmes in Europe such as the Large Hadron Collider (LHC).*” Dr Anil Kakodkar, former Chairman of the Atomic Energy Commission and Secretary of the Department of Atomic Energy.

EU-IndiaGrid will forge strategic alliances with other European initiatives in the Asian region and worldwide such as Grid initiatives in the Mediterranean (EUMEDGRID), Latin America (EELA) and China (EUChinaGrid) to maximise opportunities for co-operation and knowledge exchange.

“*The EU-IndiaGrid project is playing a key role in fostering the co-operation between the GARUDA and regional WLCG projects and EGEE, the major European Grid Initiative and has achieved significant progress. EU-IndiaGrid2 harnesses the expertise and alliances needed to ensure further advances in the field*”, says . Dr R. Chidambaram, Principal Scientific Adviser to Indian Government.

“*EU-IndiaGrid2, will connect major European e-infrastructures to the National Knowledge Network (NKN), an all-optic nation-wide core backbone based e-infrastructure in India, which will enable scientists, researchers and students from different backgrounds and diverse geographies to work closely with any one across the globe for advancing human development in critical and emerging areas*” says Prabhakar Dhekne, Scientific Consultant Principal Scientific Adviser to the Govt. of India, Raja Ramanna Fellow at Bhabha Atomic Research Centre and EU-IndiaGrid Deputy Project Manager.

In addressing global research challenges, EU-IndiaGrid2 mobilises the provision of global cross-disciplinary research services by supporting specific user communities benefiting from Grid infrastructure in four strategic areas for EU-Indian user communities:

- **Climate change** – developing studies on South Asian climate change scenarios with a worldwide perspective
- **High Energy Physics** – driving EU-India collaboration in Large Hadron Collider data research
- **Biology** – increasing detail and scope of simulation software
- **Material Sciences** – testing and extension of complex applications

EU-IndiaGrid2 is holding its official launch event on 11 January 2010 in Delhi, taking the opportunity of the India-EU Thematic Workshop on Research Infrastructures hosted by the Department of Science and Technology - Government of India, with the participation of Scientific Delegations from India and Europe. The Workshop is co-sponsored by the Department of Science and Technology - Government of India and the Information Society and Media Directorate Generals of the European Commission as one of the agreed bilateral actions under the overall ambit of India – European Union Science and Technology Cooperation agreement.

Eu-IndiaGrid2 will contribute to the Workshop programme as bridge project across European and Indian e-Infrastructures.

EU-IndiaGrid2 starts in a crucial moment for the India – European Union Science and Technology Cooperation and its Launch Event represents a perfect opportunity for a networking meeting of the Research Infrastructures Workshop delegates together with the Representatives of EU-IndiaGrid2 partner Institutes. The Launch event will welcome the participation of Dr Chidambaran, Principal Scientific Advisor to the Govt. of India, whose office is actively following the e-Infrastructures development in India and scientific cooperation with Europe.

The Launch Event and the successive Project Kick-off meeting on January 14-15 will be hosted by one of the EU-IndiaGrid2 project partners, the Indian Institute of Technology in Delhi, and will define the first steps towards advancing cross-border research through virtual collaborative environments; tools for education and research as well as planning and simulation tools for complex problem solving.

Funded by the European Commission under the 7th Framework Programme, Research Infrastructures, Information Society and Media Directorate General, EU-India Grid2 commenced on 1 January 2010. For more information, visit the website - <http://www.euindiagrid.eu/>. Alternatively, you can contact Alberto Masoni, project coordinator at [alberto.masoni@ca.infn.it](mailto:alberto.masoni@ca.infn.it).