The EGI-InSPIRE project

Russian Federation

The EGI-InSPIRE project (Integrated Sustainable Pan-European Infrastructure for Researchers in Europe) started on 1 May 2010, co-funded by the European Commission (contract number: RI-261323) for four years, as a collaborative effort involving more than 50 institutions in over 40 countries. Its mission is to establish a sustainable European Grid Infrastructure (EGI).

EGI-InSPIRE is ideally placed to join together the new Distributed Computing Infrastructures (DCIs) such as clouds, supercomputing networks and desktop grids, for the benefit of user communities within the European Research Area. EGI-Inspire Objectives

The ultimate goal of EGI-InSPIRE is to provide European scientists and their international partners with a sustainable, reliable e-Infrastructure that can support their needs for large-scale data analysis. This is essential in order to solve the big questions facing science today, and in the decades to come.

EGI-InSPIRE will coordinate the transition from a project-based system (the EGEE series) to a sustainable pan-European e-Infrastructure. The four-year project will support grids of high-performance computing (HPC) and highthroughput computing (HTC) resources.

The project is ideally placed to integrate new Distributed Computing Infrastructures (DCIs) such as clouds, supercomputing networks and desktop grids, to benefit the user communities within the European Research Area.

EGI-InSPIRE will collect user requirements and provide support for the current and potential new user communities, for example the ESFRI projects. The project will also support the current heavy users of the infrastructure, such as high energy physics, computational chemistry and life sciences, as they move their critical services and tools from a centralised support model to one driven by their own individual communities.

EGI-InSPIRE is a consortium of 50 partners, including 37 National Grid Initiatives (NGIs), two European International Research Organisations and eight partners from the Asia Pacific region.EGI-InSPIRE partners European partners Partner Institution Acronym Stichting European Grid Initiative EGI.eu Netherlands Country Universiteti Politeknik i Tiranes **UPT** Institute for Informatics and Automation Albania Problems of the National Academy of Sciences of the Republic of Armenia **IIAP NAS RA** Armenia Institute for Parallel Processing of the Bulgarian Academy of Sciences **IPP-BAS** Bulgaria United Institute of Informatics Problems of National Academy of Sciences of Belarus **UIIP NASB Belarus** Teleinformatikdienste für Lehre und Forschung SWITCH Switzerland University of Cyprus UCY Cyprus Cesnet, Zajmove Sdruzeni Pravnickych Osob Cesnet Czech Republic Karlsruher Institut für Technologie Kit-G Germany Univerzitet u Banjoj Luci Elektrotehnicki Fakultet **UOBL-ETF** Bosnia and Agencia Estatal Consejo Superior de Investigaciones Cientificas **CSIC** Herzegovina Csc-Tieteen Tietotekniikan Keskus Oy Finland Centre Spain **CSC** National de La Recherche Scientifique Georgian Research and **CNRS** France **Educational Networking Association** GRENA Georgia Greek Research and Technology Network S.A. **GRNET** Greece Sveuciliste U Zagrebu Sveucilisni Racunski Centar SRCE Mta Kfki Reszecske-Es Magfizikai Kutatointezet Croatia MTA KFKI Hungary The Provost, Fellows & Scholars of the College of the Holy and Undivided Trinity of Queen Elizabeth, near Dublin Ireland Inter University Computation Centre TCD **IUCC** Israel Istituto Nazionale di Fisica Nucleare INFN Italy Vilniaus Universitetas VU Lithuania Research and Educational Networking Association of **RENAM** Moldova Javna Ustanova Univerzitet Crne Gore Podgorica Moldova Ss. Cyril and Methodius University in Skopje UOM Montenegro **UKIM** Former Yugoslav Republic of Macedonia Stichting Nationale Computerfaciliteiten Netherlands SIGMA Norway Uninett Sigma As Akademia Gorniczo-ACK CYFRONET AGH Hutnicza Im. Stanislawa Staszica w Krakowie Poland Laboratório de Instrumentação e FÃ-sica Experimental de PartÃ-culas LIP Portugal **IPB** Arnes Institut za Fiziku Serbia Arnes Slovenia Ustav Informatiky, Slovenska Akademia Vied **UI SAV** Slovakia Tubitak Ulusal Akademik Ag Ve Bilgi Merkezi TUBITAK ULAKBIM Science and Technology Turkey **Facilities Council** KÃ benhavns Universitet **STFC** United Kingdom **UCPH** Vetenskapsradet **VR-SNIC** Sweden Latvijas Universitates Matematikas Un Informatikas Instituts **IMCS-UL** Latvia National Association of Research and Educational E-Infrastructures "E-Arena" Autonomous Non-Commercial Organization E-Arena

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Institutul National de Cercetare-dezvoltare In Informatica ICI Bucuresti Romania European International Research Organisations Partner Institution Acronvm European Organization for Nuclear Research Switzerland **CERN** Germany European Molecular Biology Laboratory **EMBL** Asia-Pacific partners Country Partner Academia Sinica Acronym **ASGC** Advanced Science and Technology Institute **ASTI Philippines** Taiwan Institut Teknologi Bandung Bhmn Indonesia Inter-University Research ITB Institute Corporation, High Energy Accelerator Research Organisation **KEK** Japan Korea Institute of Science and Technology Information KISTI Republic of Korea University of Melbourne **UNIMELB** National University of Singapore NUS Singapore Universiti Putra Malaysia Malaysia

NSTDA

Thailand

Project Participants from Moldova.

Moldova participates in the project as MD-Grid JRU Consortium with RENAM as Contractor and following third parties - JRU members:

- FRT-TUM Faculty of Radioelectronics and Telecommunications of Technical University of Moldova
- IGS ASM Institute of Geology and Seismology of the Academy of Sciences of Moldova
- SHMS State Hydrometeorological Service of Moldova.

National Science & Technology Development Agency

RENAM is responsible for NGI development and its sustainable operation, extension of the National Grid infrastructure by installation of new clusters and their inclusion into common Grid segment of Moldova and into the Pan-European EGI.eu infrastructure. RENAM assures operation of Grid sites, support of development and functioning of applications in the fields of seismology, climate modeling, ecology and mathematics. RENAM is responsible for users and Grid sites engineers training and takes part in dissemination and public relations activities.

FRT-TUM cooperates with a significant number of universities and centres from different countries, participate in project as a third party behind RENAM Association. The grid node installed at the faculty together with its grid infrastructure and specialists participate in the EGI-Inspire project offering resources for weather environment and earthquake monitoring applications development and use support in collaboration with regional neighbors from Romania, Bulgaria and Turkey.

IGS ASM provides contributions on real-time monitoring of earthquakes—and development of regional monitoring capacities, implementation of—real-time seismic data processing and real-time data exchange at—regional and international level. Despite the territory having high—earthquake hazard and risk, its seismic activity remains poorly monitored. Moreover, cross-border data exchange and regional—applications for data accumulating and processing, which are essential—for good quality monitoring, are very limited. As a consequence, it is—constraining ability to cooperate with the international research and—engineering community.

SHMS contributes by testing and deployment of a pilot application. The service infrastructure and specialists are involved into MD-Grid JRU scientific research and production grid activities in requirements definition, input data provision and interpretation of results on national, regional and international levels.

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