

Educational segment of Ukrainian Grid infrastructure

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The project "Development of the National Grid infrastructure for scientific research and education (UGrid)" is carried out under the Decree of Cabinet of Ministers of Ukraine from December '7', 2005 №1153 and the Act of Ministry of Education and Science of Ukraine from August '22', 2007 № 758. It is dedicated to building the high-quality national Grid infrastructure with corresponding services for giving possibility to native scientists to collaborate fruitfully in European Research Area (ERA). At project realization, following tasks were solved:

Providing service of World Data Center Ukrainian Branch (WDC UB), by giving its clients remote access to world data storages, possibility of efficient common use of computers, unique experimental equipment and devices;

In co-operation with National Academy of Sciences (NASU) finishing building the national net of clusters as a base of the national Grid infrastructure and its connecting to European Grid Initiative (EGI);

Developing according to agreement with EUGridPMA the Certificate Center of Public Keys in Ukraine, taking into account the National Grid infrastructure project in hand and the national computer network for science and education URAN, being connected to GEANT-2;

Organizing Grid services by means of creating 6 regional resource-operational centers (at Kyiv, Lviv, Zaporozhe, Kharkiv, Dnipropetrovsk and Donetsk) and permanently functioning groups on Grid support; and beginning the Grid users' training;

Running one of the most powerful national cluster (4 TF, 20 TB), creating virtual organizations (VO) of Ukrainian scientists with foreign colleagues in fields of sustainable development, material science and computer-aided design, having provided them by information support.

The project is executed by the team of 10 different Ukrainian organizations (2 academic, 6 educational and 2 industrial ones). All participants of the project are carrying out the scientific research in the field of interoperability of Grid middleware, developing additional services for widening the range of possible users (except scientists) on representatives of different social layers: engineering, business and social sphere.