New role of NRENs – support of e-Infrastructures

NREN RENAM is not only networking infrastructure operator, but also:

- coordination of basic components of eInfrastructure development at national level, such as HPC, Scientific Grids, Scientific Clouds (in perspective);

- integration of resources of national eInfrastructure in common European eInfrastructure (liaison with Pan-European eInfrastructure initiatives).

Why NRENs are coordinating these areas ?

- because NREN operates national R&E networking infrastructure, that is focused on offering specific services, needed for national eInfrastructure components operation (integration of Grid sites, R&E PKI operational support, providing federated identity management, etc.)

- because NREN is the lonely national gateway to GEANT – Trans European Network uniting all Pan-European eInfrastructures and providing specific services for eInfrastructure Components operation at European Level.

GÉANT ★ NEW role of RENAM as a NREN

- Integration (forming) of users' community and end users support (trainings, consultations, adapt users applications to national and regional HPC/Grid resources, etc.)

- Analysis of users needs – focus on access to computational resources; scientific data and electronic publications;

- Deploying demanded services for national R&E community, covering peripheral institutions;

- Lead national seminars and workshops, on which broadcast the European experience in creating and using e Infrastructures (GEANT, HPC, Grid, scientific data repositories, etc.);

Moldova signed the Association Agreement to the EU's Seventh Research Framework Programme that stimulates participation in EC projects:

• Development of eIfrastructures is the way of integration to European ERA by introduction of the global informational society technologies and services into scientific-educational community of Moldova through close interrelation with Trans-European R&E network GEANT and other European e-Infrastructure initiatives.

• Due to support of the EC projects – SEE-GRID, EGI-Inspire: deployment and access to Grid resources; HP-SEE - signing of MoU for access to regional HP-SEE resources enhanced use of computational infrastructures:

✓ Moldova can contribute only to development of Tire 2 HPC installations and at present very important to have access to more powerful regional and European HPC and Grid infrastructures;

- International contribution to the development of eInfrastructures in Moldova ensured leveraging of wide access to its resources. Now it is very important to have national support of eIfrastructures development and operation that will allow decreasing cost of resources' use for end users. Implementation of a new model of NREN funding - obtaining state financing for covering predetermined set of basic services and costs of e-Infrastructures operation and development is vitally for RENAM further development.

- Participation of Eastern Partnership countries in new GEANT network development project (GN3+) will obviously promote international cooperation and emphasize importance of realization of European model of NREN operation.