



NGI Armenia

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User community	User support project
Community A: Earth Sciences	<ul style="list-style-type: none"> • NWP (WRF, MM5, DWD) • Air Pollution (CMAQ) • Satellite Image Processing (GRASS GIS, SDI) • Hydrological Modeling (SWAT) • Seismological Platform (Hypo, AMGA) <p>Deployment of a common SDI for the earth sciences</p>
Community B: Life Sciences and Health	<ul style="list-style-type: none"> • Molecular Dynamics and Chemical Physics (NAMD, Gromacs) • Biomedical Image Processing • Molecular Docking • DNA <p>Development a joint Molecular repository and tools for simulation of complex systems</p>
Community C: Physics, Mathematics, Engineering	<ul style="list-style-type: none"> • HEP (ATLAS, ALICE) • Astrophysics (VO) • Quantum Physics • Decision making algorithms (SCALAPACK, BLAS) • Cryptanalyzes <p>VRE for data deluxe and big data</p>

- Support objectives
 - Training and education including e-learning
 - Technical skills to port and develop several digital models and data repositories
 - Develop services via scientific gateways (P-Grade) and other means
- Development projects that could bring benefits to this community
 - Management of the environment
 - Climate Change
 - SDI and big data tackling the environmental challenges

- Support objectives
 - Training and education including e-learning
 - Technical skills to port effectively the NAMD, GROMACS and other packages
 - Develop cloud services the input/output of the simulations
- Development projects that could bring benefits to this community
 - MD simulations for Drug industry
 - Investigations of complex systems
 - DNA

- Support objectives
 - Training and education introducing CERN experiments, and math packages (scalapack, sage, octave, blas, etc.)
 - Technical skills develop math based services for societal challenges (such as investigation of systolic algorithms for fires, etc.)
 - Implement new multidisplinary subjects in the curricula
- Development projects that could bring benefits to this community
 - Software developments
 - Big Data