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Cloud based distributed scientific computing infrastructure for research and education

The main focus of the advanced research infrastructures is to offer huge volumes of data to international research collaborations with hundreds of participants and their simultaneous need for unique, extremely high-performance computing facilities and sharing data through intense use of the cloud computing paradigm. GÉANT Association, together with its National Research and Education Network (NREN) partners, provides users with unmatched, highly reliable high-speed connectivity layer with very fast access to data all over the world. GÉANT –NREN ecosystem services offer for the research and education community convenient, fast and reliable security access to European High-Performance Computing (HPC) facilities, cloud services from European Open Science Cloud (EOSC) Service Catalogue, access to scientific data and publications. The article describes approaches and results of advanced research e-Infrastructure implementation in Research and Educational Networking Association of Moldova (RENAM) as a part of regional e-Infrastructure that is developing due to support of EU GN4-3 and EaPConnect projects by the Eastern Europe NRENs.

Key words: GEANT-NREN e-infrastructure, regional e-Infrastructure & services, HPC, integrated GEANT-NRENs Cloud Initiative, Open Science, EOSC

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