



The Research and Educational Networking Association of Moldova (RENAM, <http://www.renam.md>) is a Public Association established to promote and support the development of national communicational and informational infrastructures, e-Infrastructure resources for the scientific and educational community (especially for research institutions, higher and secondary education, libraries and public collections, medical establishments), as well as to governmental organisations in Moldova. The principal purpose of RENAM's activities consists in constant development of communication and computational infrastructure for research and education by means of collaborated efforts of scientific and educational institutions; providing access to the national and foreign computational infrastructures, scientific databases, open data repositories and educational informational content; permanent participation in extension of resources of the national e-Infrastructure; coordination and support of national distributed and HPC infrastructure development; integration of national computing resources to the regional and Pan-European scientific computing infrastructures. RENAM coordinating MD-GRID NGI that at present is uniting all principal research and educational entities involved in support and development of National Computing infrastructure and applications. RENAM is the leading cloud compute and data infrastructure provider for the R&E community in Moldova. Since 2018 RENAM is coordinating the national initiative and related activities towards the realization of the European Open Science Cloud initiative in Moldova, providing computational resources of cloud infrastructure for supporting the generic and thematic services for open research data and ensuring open access to the national research data repositories.

RENAM providing resources and supporting development of applications that need special processing resources in Moldova that are covering seismology, environment monitoring and meteorological modelling, life sciences, engineering design and some other research areas. National Computing infrastructure comprises clusters installed in RENAM and other MD-GRID NGI members' institutions. All computational installations are integrated in RENAM optical network. In 2010, RENAM, together with the NREN of Romania, RoEduNet, established a 10 Gbps CBF connection to link RENAM's network to the GÉANT PoP in Bucharest. Since 2021 due to support of EU funded EaPConnect project new CBF 100 Gbps connections to GEANT PoPs in Bucharest (Romania) and Kyiv (Ukraine) were established.

RENAM research expertise and interests are covering such areas as complex applications development and porting to the available national and regional computational resources; elaboration and implementation run time environment for national computing infrastructure; examination and adaptation of instrumental tools and web interfaces for simplifying users' interfaces and support interaction with deployed computational environment; forming organizational structures and procedures for complex applications evaluation for allocation of computational resources. Important direction of RENAM activities is dealing with community members' education, trainings organization and providing consultancy service to national e-Infrastructures' users.