

Network Expansion in the Caucasus and Central Asia (SNECCA)

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With support from the U.S. Department of Energy, Lawrence Livermore National Laboratory and the Incorporated Research Institutions for Seismology are collaborating with seismic monitoring centers in the Caucasus and Central Asia to expand national seismic networks through the installation of permanent broadband seismic stations. The main goal of the project is to improve regional network coverage by making high quality data from new stations openly available to the global scientific community. The multi-year project involves deployment of more than fifty posthole broad-band sensors across six participating countries: Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, and Tajikistan. Additionally semi broad-band stations will be deployed for local monitoring of volcano and mud-volcano sites in Armenia and Azerbaijan; and standalone urban type strong motion sensors will be deployed in large cities. To facilitate data exchange and incorporate diverse sources of real-time data into national monitoring solutions, the project also supports the installation of high-capacity servers for participating monitoring centers. Station deployments began in the summer of 2021 and are planned to be completed in 2023. The project is implemented through the Seismic Targeted Initiative of the International Science and Technology Center in Kazakhstan and the Science and Technology Center in Ukraine.

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Promotional text

Seismic networks, monitoring, and research in the Central Asia and Caucasus are expanding in partnership with the U.S. Seismic Cooperation Program. These improvements contribute to regional seismic hazard analysis, earthquake risk reduction, regional capacity building and CTBTO e

Oral preference format

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