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## of installation of Capacity Building System at NDC of Mexico.

The installation of the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) capacity building system (CBS) at the National Data Center (NDC) of Mexico represents a groundbreaking step in advancing global seismological research and enhancing seismic risk mitigation. By harnessing the extensive data network provided by the International Monitoring System (IMS), this installation significantly improves the accuracy of earthquake detection and the assessment of their effects, such as ground motion and potential damage. The CBS empowers the NDC with cutting-edge tools and methodologies to analyse seismic data, enabling the development of impact models critical for disaster preparedness and mitigation. Furthermore, this initiative fosters international cooperation by strengthening Mexico's technical capabilities to contribute to global seismological research and practical applications. This strategic integration underscores the vital role of the CTBTO in reducing seismic risks, protecting communities, and advancing the scientific understanding of earthquakes.

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