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Information Technology - Information and Data Architecture; New Information and Data Architecture Research from University of Texas Austin Discussed (TexNet: A Statewide Seismic Monitoring Network as Geographic Information Infrastructure)

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2026 OCT 12 (VerticalNews) -- By a News Reporter-Staff News Editor at Journal of Engineering -- Investigators publish new report on information and data architecture. According to news reporting out of Austin, Texas, by VerticalNews editors, research stated, "Seismic monitoring networks increasingly develop capabilities that function as geographic information infrastructure, transforming continuous geophysical observations into spatial information that supports research, decision-making, and public awareness."

Funders for this research include University of Texas At Austin.

The news correspondents obtained a quote from the research from University of Texas Austin: "In Texas, seismicity linked to oil and gas operations has increased since 2009 across major producing regions, prompting the Texas Legislature to establish the Texas Seismological Network and Seismology Research program (TexNet) in 2015. This paper examines TexNet's seismic monitoring network, field operations, data-processing pipeline, and the information products, data services, and decision-support tools that transform seismic observations into accessible earthquake information. Since routine earthquake reporting began in 2017, TexNet has grown from an inherited network of eighteen broadband stations to a system directly maintaining 207 stations and incorporating 421 active stations to locate earthquakes across Texas. TexNet provides a suite of information products, data services, and decision-support tools-including the TexNet Earthquake Catalog, near-real-time notification systems, and open data products-that connect geophysical observations with the needs of researchers, regulatory agencies, industry, and the public."

According to the news reporters, the research concluded: "TexNet remains fundamentally a seismic monitoring network, with additional capabilities that support scientific, regulatory, and public information needs in Texas and other regions with induced seismicity."

For more information on this research see: TexNet: A Statewide Seismic Monitoring Network as Geographic Information Infrastructure. Geographies, 2026,6(3):82. The publisher for Geographies is MDPI AG.

A free version of this journal article is available at https://doi.org/10.3390/geographies6030082.

Our news editors report that more information may be obtained by contacting Caroline Breton, **Bureau of Economic Geology**, Jackson School of Geosciences, University of Texas Austin, Austin, TX 78758, United States. Additional authors for this research include Camilo Munoz, Nikolaos Bakirtzis, Alexandros Savvaidis.

Keywords for this news article include: University of Texas Austin, Austin, Texas, United States, North and Central America, Network Monitoring, Information Technology, Information and Data Architecture.

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