

DHS Science and Technology Directorate

Shaken Fury 2019

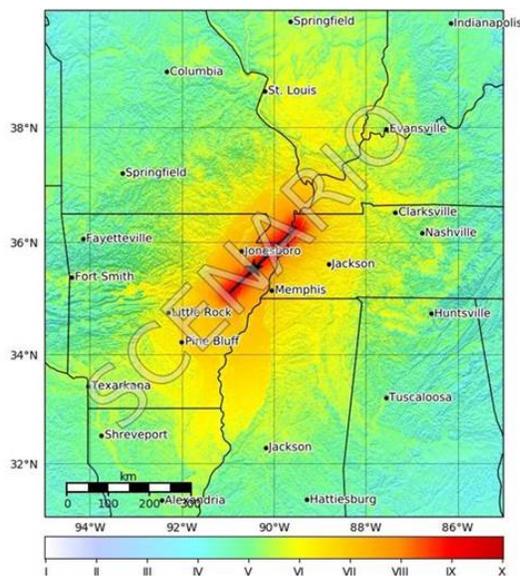
Supporting FEMA's Strategic Goal to Ready the Nation for Catastrophic Disasters

The Department of Homeland Security (DHS) Science and Technology (S&T) Directorate is supporting the Federal Emergency Management Agency's (FEMA) 2018-2022 Strategic Plan and its vision of a prepared and resilient nation. This effort includes partnering with key stakeholders for FEMA's Shaken Fury 2019 exercise, which simulates the response and recovery to a 7.7 magnitude earthquake scenario near Memphis, Tennessee. The Shaken Fury exercise will take place May 29th – June 7th, 2019.

The exercise offers an excellent and unique opportunity for DHS S&T to work across federal, state, and local governments, as well as non-governmental organizations and the private sector, to assist organizations with the transition and adoption of technologies and new protocols. DHS S&T's participation will improve the region's collective capacity to respond and recover from significant events.

Building Resilience through the New Madrid Earthquake Scenario

The earthquake scenario offers a broad range of opportunities to build resilience to earthquakes and other associated hazards. Due to the location of the New Madrid Seismic Zone (NMSZ), an earthquake in that area has the potential to cause catastrophic physical and economic loss to the critical infrastructure in the region. The figure below is a comparative map showing the impact zone of a 6.8 earthquake that occurred in 1895.



Shaken Fury 2019 ShakeMap. Credit: FEMA

Strengthening Organizational Partnerships for National Resilience with Technology

DHS S&T partners with the [Central United States Earthquake Consortium](#) (CUSEC), which represents 18 states, all committed to building regional resilience. Together with CUSEC, DHS S&T works alongside states and FEMA Regions to enable the transition and adoption of technologies that will:

- Improve information exchange;
- Enhance situational awareness; and
- Enable the prioritization of resources across the public and private sectors.

Recognizing that FEMA's National Response Framework calls for state management and local execution of response and recovery activities, DHS S&T also works with local agencies within the NMSZ region to elevate communications interoperability between key emergency management organizations. This S&T activity incorporates the products from the five-year DHS S&T [Next Generation First Responder Apex Program](#).

Additionally, DHS S&T collaborates with several other partners—including the U.S. Department of Defense, the National Guard, the DHS Office for the Chief Information Officer, state emergency operations centers, Urban Search and Rescue leadership and the private sector—in the interest of facilitating the adoption of technologies to enhance information interoperability and sharing.

Using Technology to Advance the Adoption of FEMA's Seven Lifelines

DHS S&T works with CUSEC states and FEMA Regional Operations Centers to build foundational information-sharing infrastructure that organizations at all levels can access to gather the data needed to support critical decisions, notably those across the [FEMA seven Community Lifelines](#). FEMA defines Lifelines as sectors providing vital services designed to enable the continuous operation of critical business and government functions. Lifelines are crucial to human health and safety or economic security. The communications Lifeline directly aligns to the CUSEC and FEMA objectives for this exercise. The technologies DHS S&T will feature during Shaken Fury will offer enhancements to:

- Information Sharing;
- Communications Interoperability;
- Search and Rescue; and
- Responder Equipment.

