

# WEBINAR



The Center for Risk-Based Community  
Resilience Planning  
*A NIST-funded Center of Excellence*



## Supporting Community Resilience

Learn more about the NIST-funded Center for Risk-Based Community Resilience Planning and how the Center is developing a **computational** environment to help define the attributes that make communities resilient.

*Webinar: Thursday, April 28, 9:00 AM – 12:00 PM (MDT)*

- 9:00 - 11:30 AM Presentations from the Center of Excellence Team
- 11:30 - 12:00 PM Q&A by Chat to moderator

**Register Now**

A resilient community is one that is prepared for and can adapt to changing conditions and can withstand and recover rapidly from disruptions to its physical and social infrastructure. Modeling community resilience comprehensively requires a concerted effort by experts in engineering, social sciences and information sciences to explain how physical, economic and social infrastructure systems within a real community interact and affect recovery efforts. There are currently no models that consider all aspects of how a natural disaster affects a community or measure its resilience quantitatively. The Center of Excellence is a multi-disciplinary team of students, post-doctoral scholars, researchers, and programmers from ten universities. NIST Center researchers are working with NIST collaborators to conceptualize, develop and enable the science necessary for communities to understand what makes them resilient and to adopt policies for enhancing community resilience.

Join this informational **Webinar** to learn more about the physics-based models of interdependent and cascading hazards and their effect on buildings, bridges, power, water/wastewater, and communication systems. Distinguishing features include its treatment of the complex interactions between physical infrastructure and the socio-economic systems in a community, quantification and measurement of factors that make a community resilient to hazards, and a risk-informed basis for decision-making. The end product will be an open source multidisciplinary computational environment with fully integrated supporting databases known as NIST-CORE. **The Center of Excellence's research will enable a community to optimize its resilience planning for disaster mitigation through a combination of actions involving both public and private sectors.**

The webinar is open to anyone immediately followed by a 30 minute Q&A "chat" period.

**RSVP Today!**  
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