



What is SCEC?

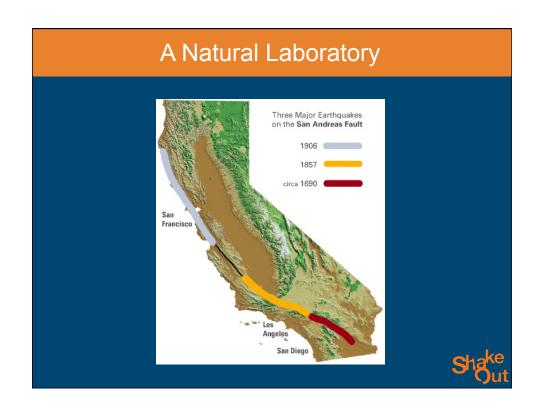
- A Multidisciplinary Research and Education Community
- Supported by the National Science Foundation and the U.S. Geological Survey
- Coordinates the efforts of over 60 institutions (e.g. USC, UCR, Caltech, UCLA)

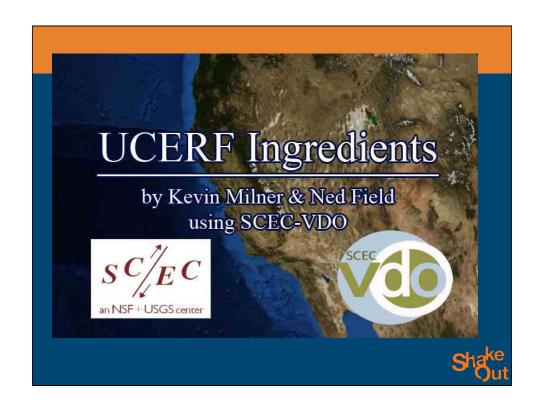
Mission: To gather new information about earthquakes in Southern California, combine knowledge into a comprehensive understanding of earthquake phenomena, and communicate this understanding to increase earthquake awareness, reduce economic losses, and save lives.

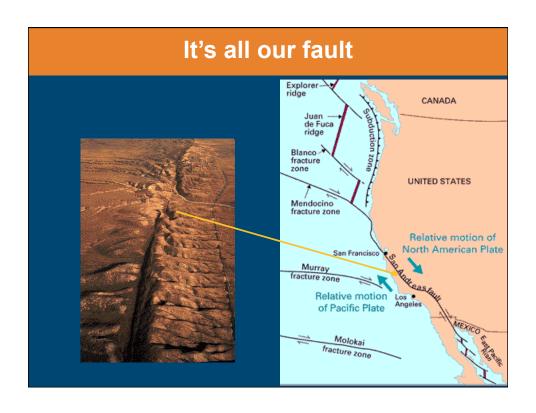


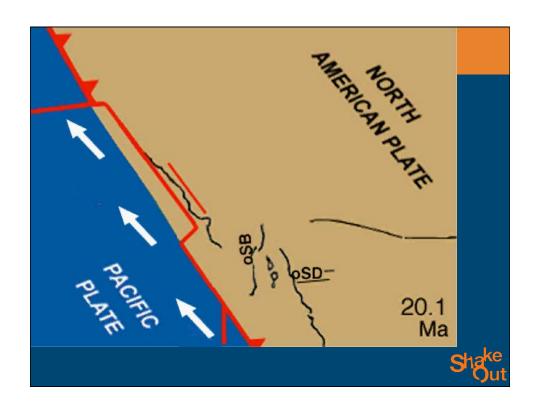


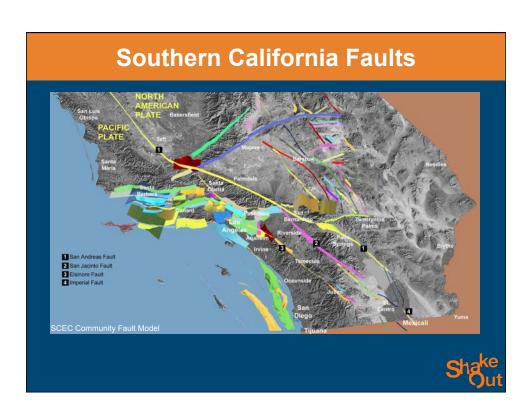


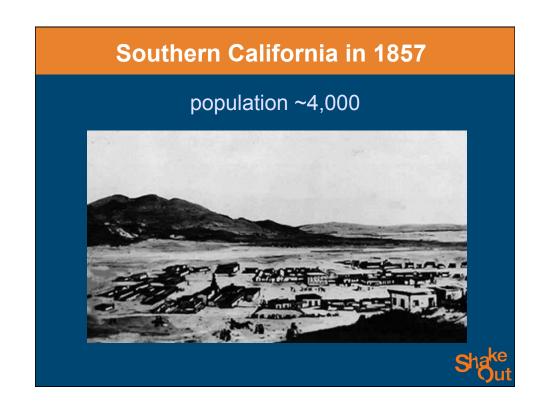








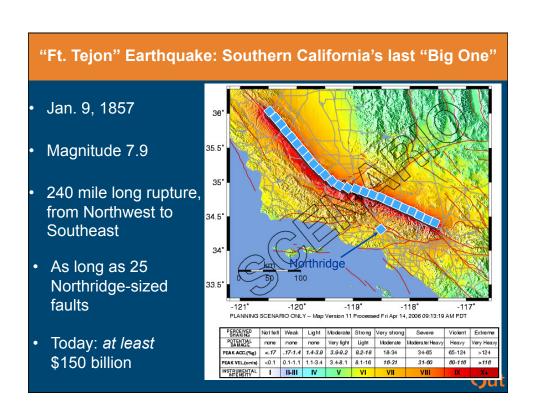


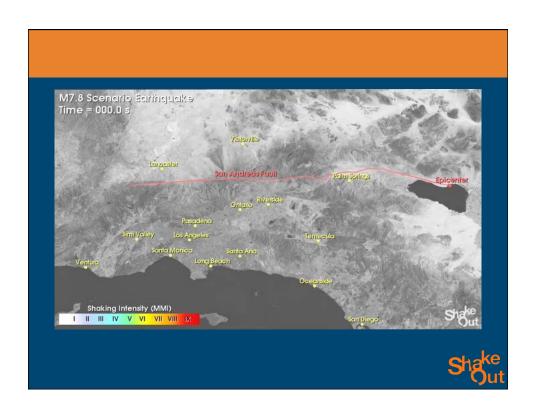


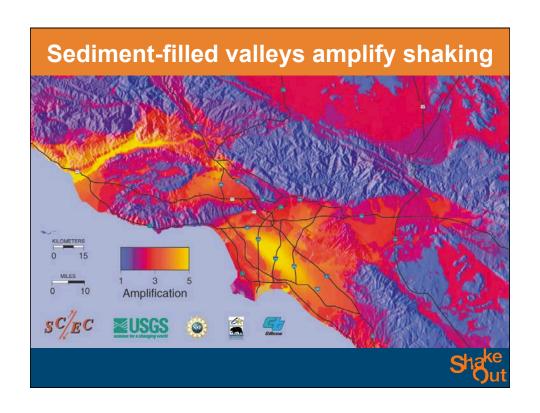
Southern California Today



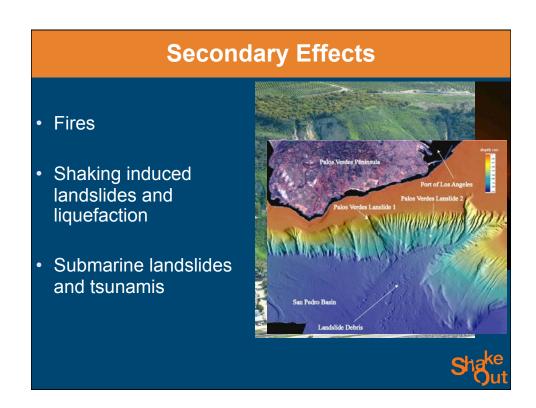
- Over 23 million people
- Fastest growing areas are close to the San Andreas











Lifelines will be Severed along the Fault Vater Electricity Gas Fiber Optics Telecommunications Railroads Interstate Highways What will you do when these items are unavailable?







ShakeOut: A Global Activity - ShakeOut.org



Key ShakeOut Elements

- Public and Private Partners
 - Working together in a unified effort and common understanding
- A Whole Community approach
 - Customized information for over 20 categories of participants
- ShakeOut.org website
 - Online registration and listing of participants
 - Instructions for many types of organizations
- ShakeOut Drill Manuals
 - Schools, Businesses, Organizations, and Government Agencies
 - Multiple levels of drills (simple to advanced)
- · School drill resources, take home materials, class curricula
- Drill Broadcasts (audio and video narrated instructions)
- · Radio, TV, and print advertising and PSAs
- Extensive traditional and social media coverage/interaction



The Seven Steps to Earthquake Safety



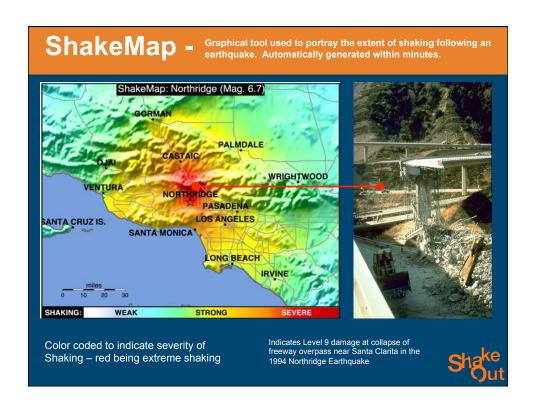
Seven Steps image from current versions of Putting Down Roots in Earthquake Country

Key ShakeOut Preparedness Messages

At home, work, and school:

- Consider what would happen in a big earthquake and what you can do now to reduce damage and recover quickly.
- Practice "Drop, Cover, and Hold On"
- Secure Your Space
 - Top heavy furniture
 - Water heaters
 - TVs & electronics
 - Vulnerable structures
 - Etc.
- Store More Water
 - 1 gallon per person per day for at <u>least</u>
 3 days and *ideally* for 2 weeks
- Have a Fire Extinguisher(s)
 - Everyone must know proper use







Earthquake & Tsunami Education and Public Information Center (EPIcenter) Network

- EPIcenters include a variety of public venues such as museums, science centers, libraries, aquaria, park visitor centers, and universities
- Share a commitment to demonstrating and encouraging earthquake and tsunami preparedness

 Help coordinate activities in their region (including the ShakeOut), lead presentations or organize events in their communities, or in other ways demonstrate leadership in earthquake and tsunami education and risk reduction.







Quake Catcher Network (QCN)

 Largest, low-cost strong motion seismic network utilizes sensors in and attached to Internet-connected computers.

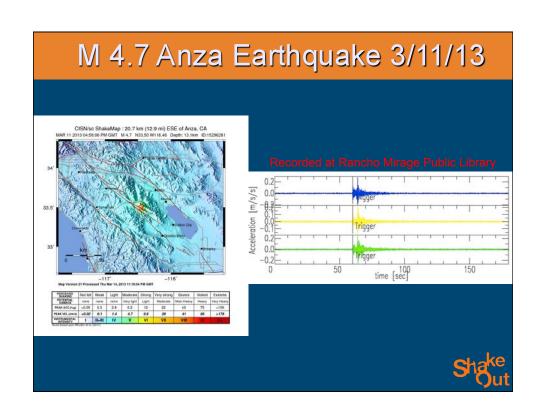


- · Collaborative initiative of Stanford Univ. & USGS
- Provides educational software that uses the sensors to teach about earthquakes and their hazards
- QCN and the EPIcenter Network are initiating a campaign to bring sensors and educational programming to free-choice learning environments. Partners include SCEC, NEES, IRIS, USGS, CA Geological Survey, UNAVCO, and EarthScope

http://qcn.stanford.edu



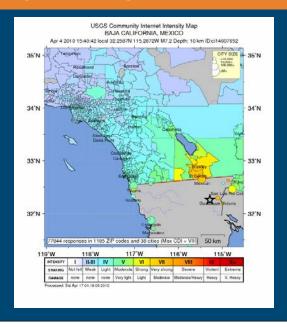




How you can get involved!

Did you Feel It? Then Report It!

See web address on the back page of Roots.





SCEC Plate Tectonics Puzzle Map

- Large, two-sided version of the USGS This Dynamic Planet poster map along
 with an accompanying lesson plan with a map legend, instructions, most
 commonly lost plates template, and suggested discussion questions.
- · Back is printed with plate outlines to guide cutting
- Provides educators with a tool to teach students about Earth science topics through interaction and visualization.
- Map includes volcanoes, mountains, earthquakes, and meteorite impacts as well as vector arrows that show direction and speed of plate movement.
- Email degroot@usc.edu for ordering information (\$15)

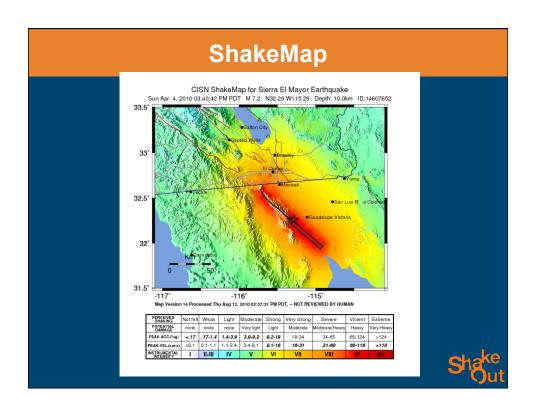


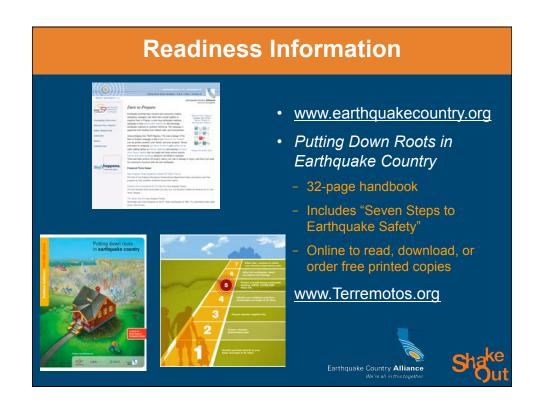












Protect Yourself During Earthquakes







Drop to the floor

If inside, stay inside!

· If outside, stay outside!



- before the earthquake drops you!
- Take Cover
 - under a sturdy desk or table
 - Or get down next to a wall and cover your head with your arms
- Hold On to it firmly
 - Be ready to move with it until the shaking stops.





Adam Stevens, UseIT '10

Working Together to Promote and Improve Preparedness, Mitigation, and Resilience

We're all in this together. . .



