

The Great Southern California ShakeOut

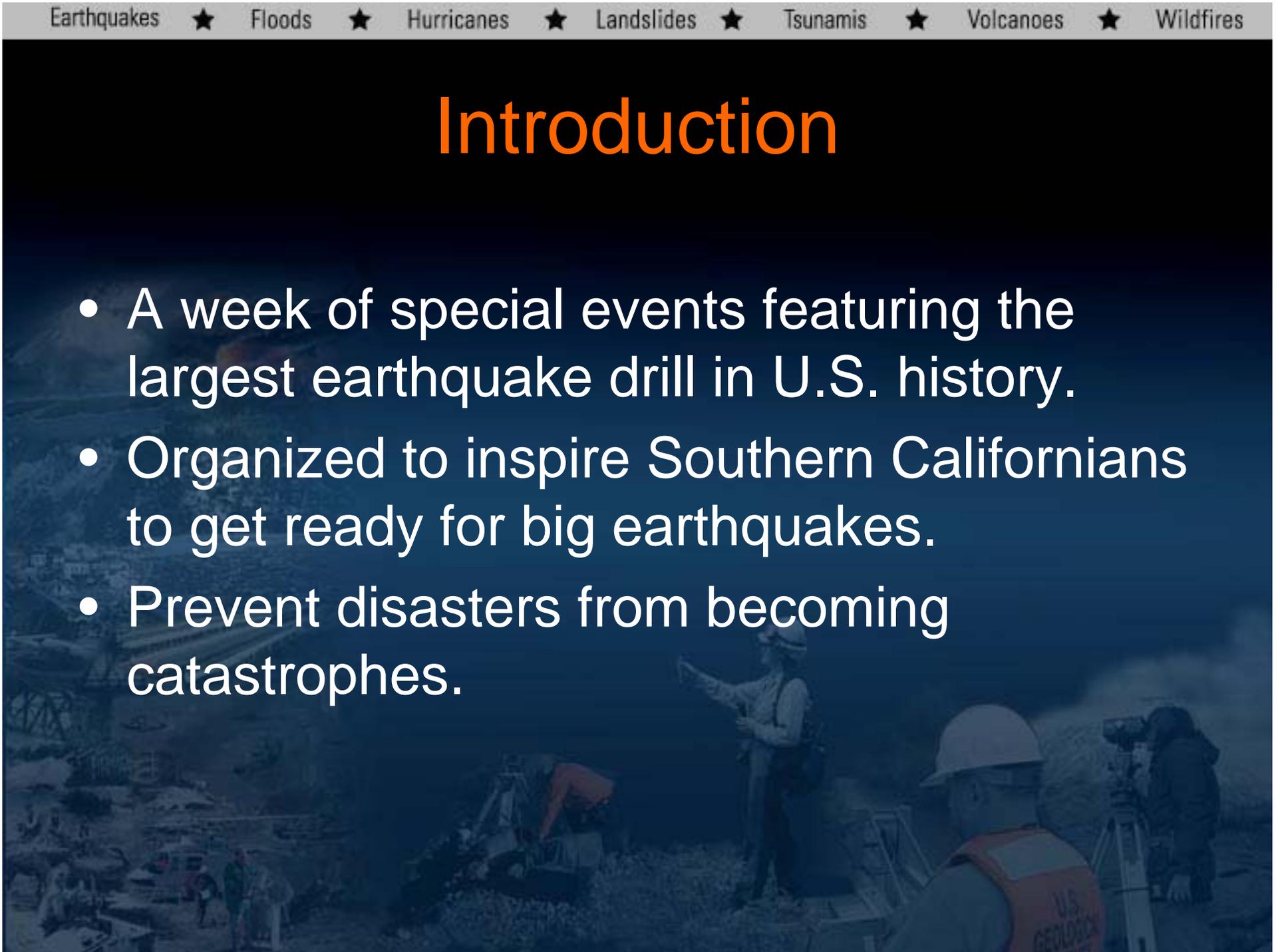


Presented to the Honorable Torrance City Council
November 4, 2008



Introduction

- A week of special events featuring the largest earthquake drill in U.S. history.
- Organized to inspire Southern Californians to get ready for big earthquakes.
- Prevent disasters from becoming catastrophes.





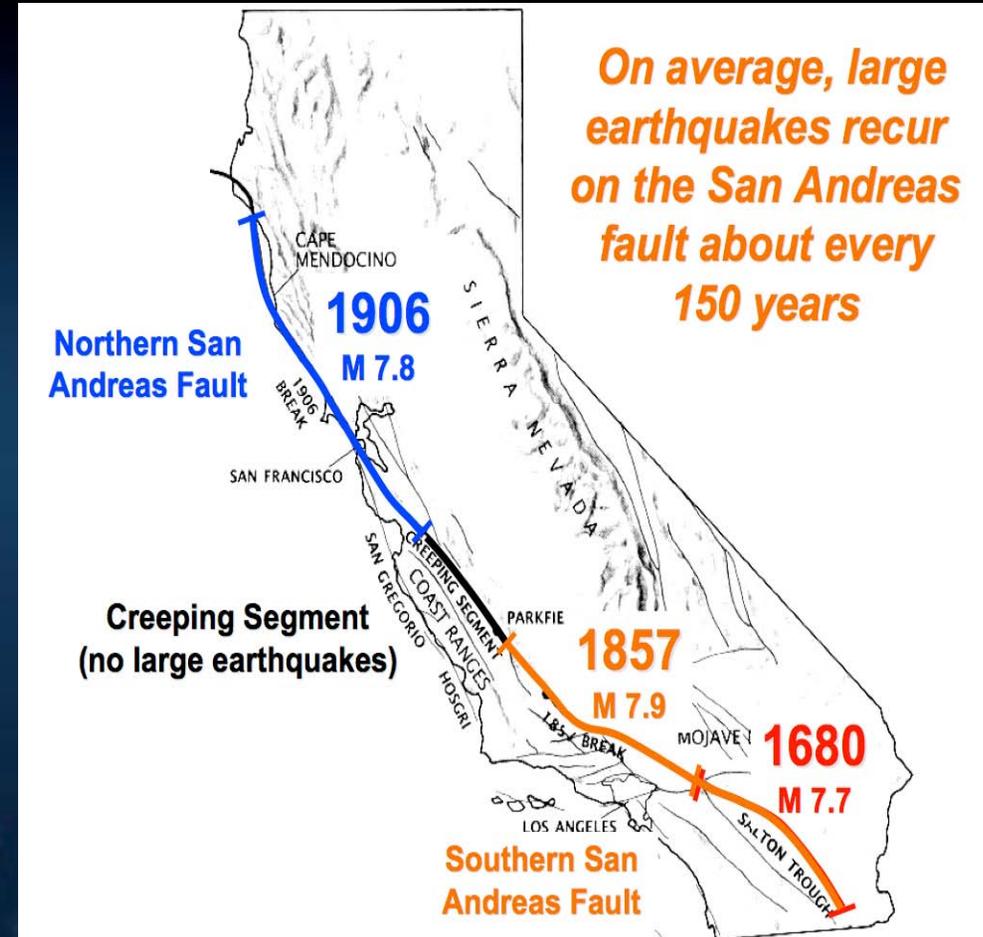
Overview

- USGS study to examine implications of a major earthquake.
- 7.8 (M) earthquake along the southern San Andreas fault.
- November 13, 2008, 10:00 a.m.
- Basis for emergency response and preparedness exercise (ShakeOut).



Why the San Andreas?

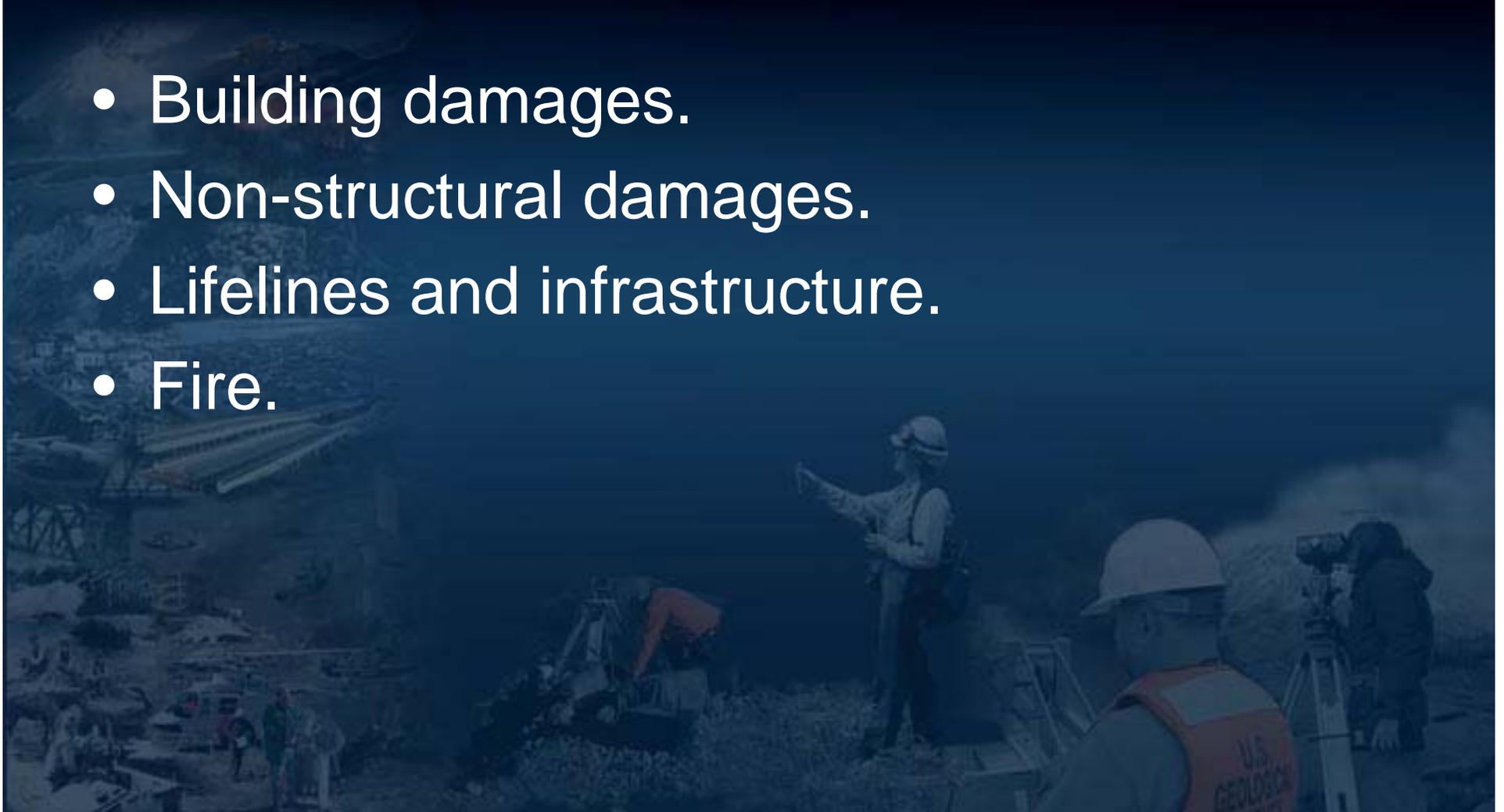
- 800 miles in length.
- Capable of producing a large earthquake.
- Seismic gap.





Major losses

- Building damages.
- Non-structural damages.
- Lifelines and infrastructure.
- Fire.





Buildings

- \$33 billion in total losses.
- Unreinforced masonry and non-ductile reinforced concrete buildings pose the greatest risk.
- Collapse of five, and “red-tag” of 10 steel moment-frame high-rise buildings.



Non-structural

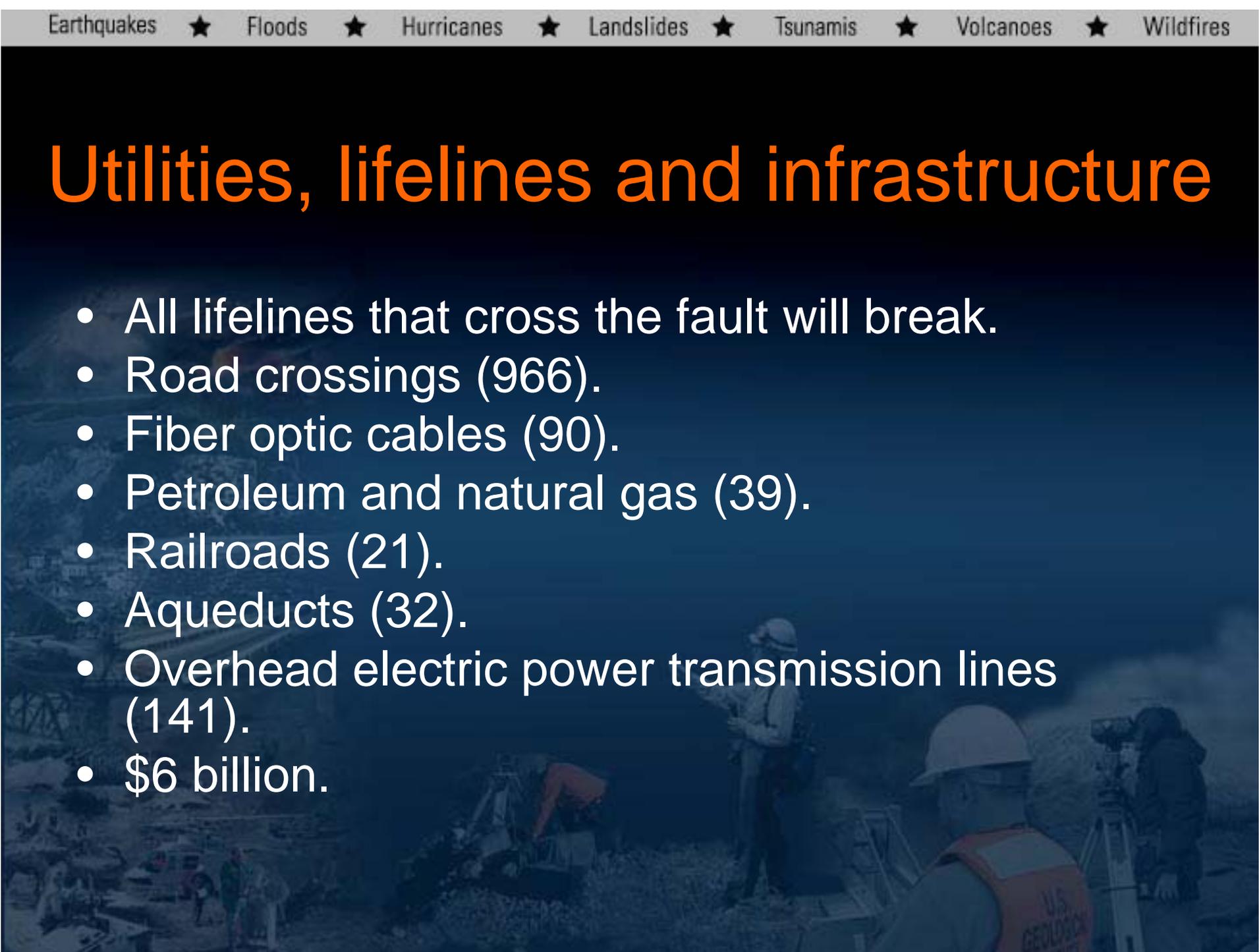
- Damage to parts of a building other than what is holding it up.
- Losses typically comparable to structural losses.
- Not regulated.
- Easy to prevent.





Utilities, lifelines and infrastructure

- All lifelines that cross the fault will break.
- Road crossings (966).
- Fiber optic cables (90).
- Petroleum and natural gas (39).
- Railroads (21).
- Aqueducts (32).
- Overhead electric power transmission lines (141).
- \$6 billion.



Freeway and critical lifeline infrastructure fault crossings



Lifelines: — power — gas and fuel — fiber optic
— rail — freeway and highway system



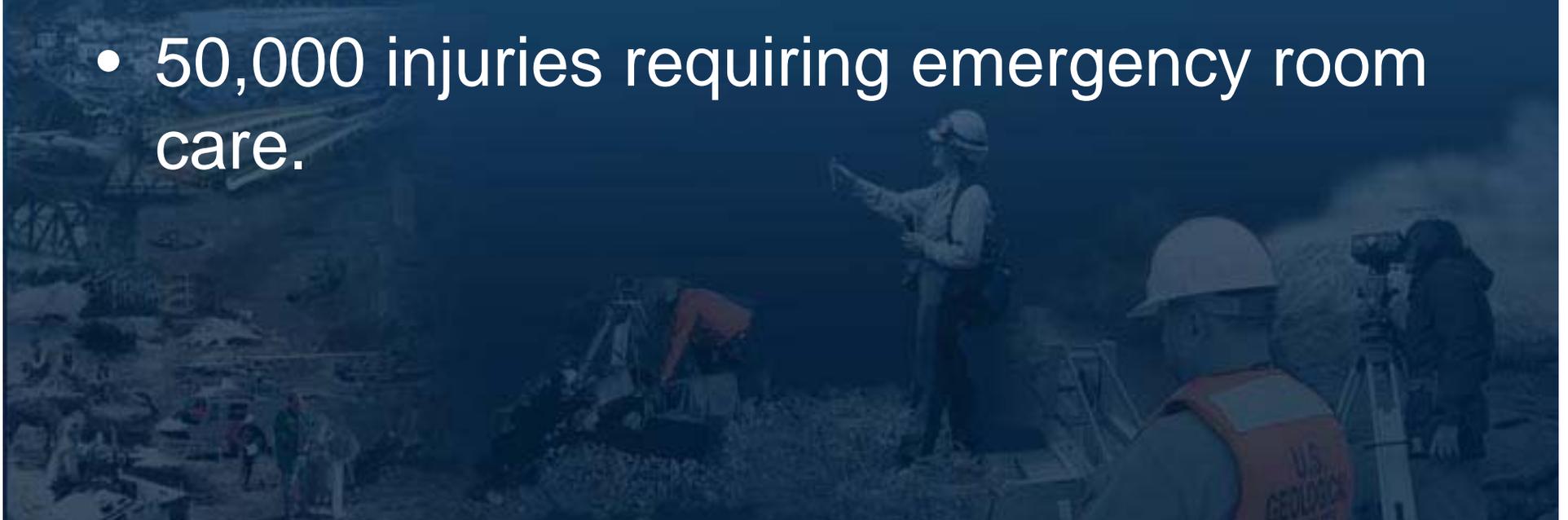
Fire

- 1,600 ignitions.
- 1,200 too large to be controlled by one fire engine company.
- If not controlled, may grow to involve tens or hundreds of city blocks.
- Increased risk due to damaged water distribution and traffic.
- \$64 billion.

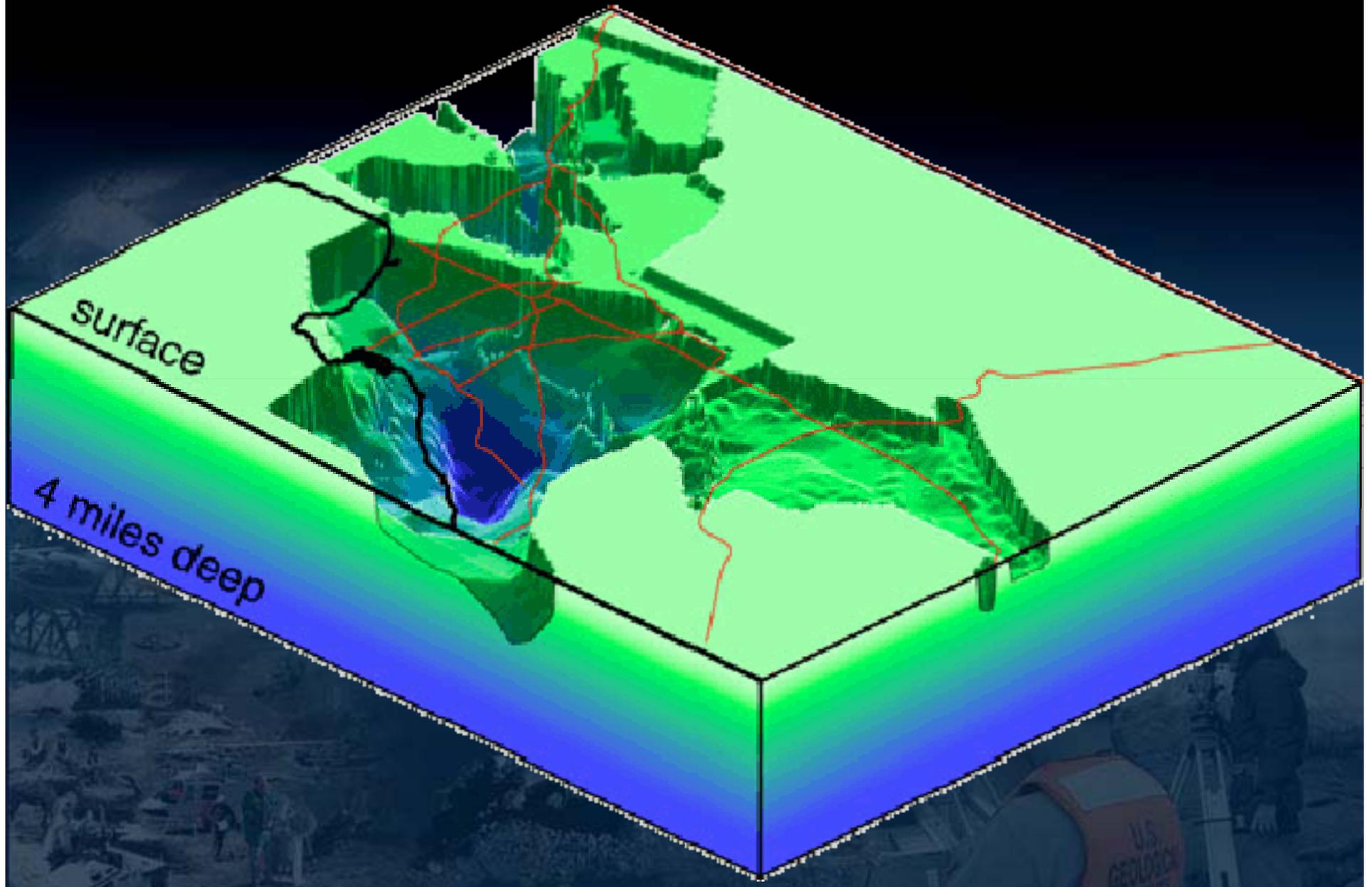


Mortality and morbidity

- 1,800 deaths.
- 750 severe injuries requiring rapid, advanced medical care to survive.
- 50,000 injuries requiring emergency room care.







www.ShakeOut.org

The Great Southern California
Shake Out



HOME

ABOUT

REGISTER

EVENTS

WHY NOW?

BEYOND THE DRILL

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The Great Southern California ShakeOut

November 12–16, 2008

The Great Southern California ShakeOut is a week-long series of special events organized to inspire Southern Californians to get ready for big earthquakes, and to prevent disasters from becoming catastrophes.

THE GREAT SOUTHERN CALIFORNIA SHAKEOUT IS FOR EVERYONE

Individuals
Businesses
Schools
Families
Volunteers
Community Groups

Non-Profit Organizations
Faith-Based Groups
Students
Emergency Responders
Governments Agencies
Scouting Troops

PARTICIPATE IN THE SHAKEOUT DRILL

Thurs, Nov. 13, 2008, 10 a.m.
Join in the country's largest-ever earthquake preparedness exercise—the Great Southern California ShakeOut Drill. Registration is free and open to everyone.

Register Now

Now take the next step—go beyond the Drill.

BECOME A SPONSOR

ShakeOut is organized by THE EARTHQUAKE COUNTRY ALLIANCE

A public-private partnership of leading earthquake professionals, emergency managers, government agencies, businesses and community leaders. The goals of the Alliance are to educate communities on earthquake safety and recovery, increase



How will the City of Torrance participate?

- November 13, 2008:
 - 10:00 a.m. – 7.8 (M) earthquake.
 - Stop, drop and hold on.
 - Evacuation drills.
 - Alert notifications.
 - 5/20/60 Minute Reports.
 - Level 3 EOC activation.
 - ADC activation and drill with DSVs.



Goals and objectives

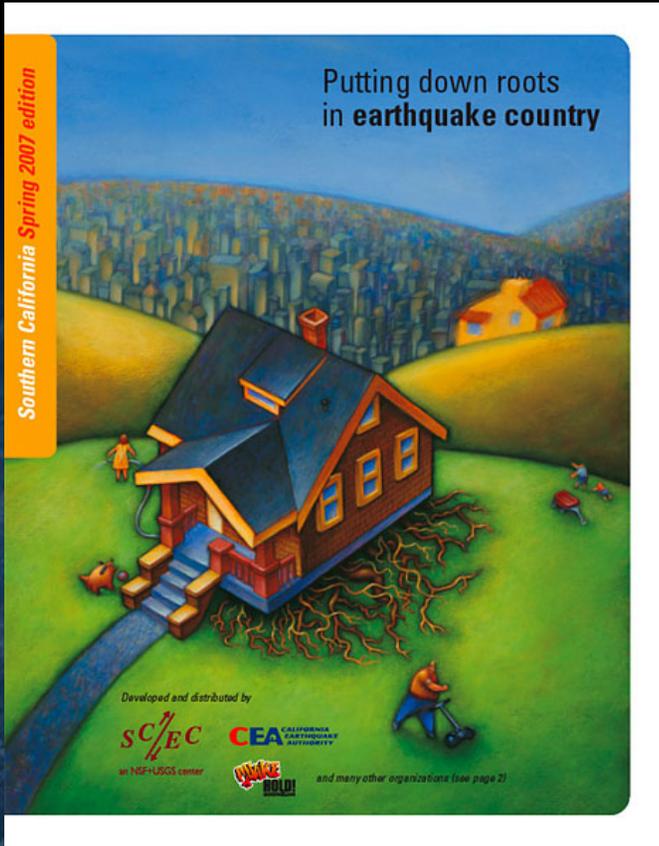
- Test alert notification systems.
- Test City Departments' Evacuation Plans.
- Test Level 3 EOC activation.
- Test EOP including 5/20/60 Minute Reporting.
- Test communications link with County EOC.
- Test ability to conduct Critical Facilities windshield surveys.



Goals and objectives (cont'd.)

- Provide EOC experience for City staff.
- Test EOC's ability to conduct shift change.
- Test EOC's ability to function during utility service interruption.
- Test emergency communications (TARA).
- Provide field response opportunity for DSVs and Neighborhood Watch.

The Seven Steps to Earthquake Safety



Online to read, download, or order free printed copies at www.earthquakecountry.info





More on earthquake/disaster preparedness

- www.tpd.torrnet.com/disasterpreparedness
- In-home presentation.
- Map Your Neighborhood.
- CERT.





Conclusion

- Not “if” but “when.”
- What we do today may prevent future disasters from becoming a catastrophe.
- Our chance to practice what to do when it happens.





Questions???

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