



OEM: Weekly SITREP

October 19, 2021

USA & WORLD

Summary of Goals

This list provides a brief summary of the goals above.

I. Transform our Medical Defenses

- 1. Vaccines: Rapidly make effective vaccines against any human virus family**
 - Design, test, and review by 100 days after pandemic threat appears (for COVID-19 = May 2020)
 - Produce enough vaccine for the U.S. by 130 days and entire world by 200 days
 - Simplify vaccine distribution (e.g., eliminate need for cold storage)
 - Simplify vaccine administration (e.g., replace sterile injection, with skin patches and nasal sprays)
- 2. Therapeutics: Life-saving medicines suitable for any virus family**
 - Develop medicines to block key virus functions (as done for HIV)
 - Enable rapid production of neutralizing antibodies (currently too slow)
 - Develop medicines to prevent severe immune over-reactions (useful in public health)
- 3. Diagnostics: Simple, inexpensive, accurate tests for any virus available within weeks**
 - Develop technologies to meet sustained demand, including daily home testing for all, if required
 - Use new diagnostics in routine care, to serve public health, drive down costs, and expand capacity

II. Ensure Situational Awareness

- 4. Early-Warning Systems: Rapidly detect new viral outbreaks with pandemic potential**
 - Detect new threats by genome sequencing of patients with unexplained fevers in U.S. and abroad
 - Detect new viral threats by wastewater sampling
 - Create early-warning networks to aggregate and analyze global data
- 5. Real-time Monitoring: Follow existing viral outbreaks for spread and evolution**
 - Improve tracking by combining diagnostic, epidemiological, sequencing, and environmental data
 - Improve analysis and forecasting

III. Strengthen Public Health Systems

- 6. U.S. Public Health. Modernize infrastructure to prevent and contain biological threats**
 - Strengthen the public health work force
 - Invest in public health laboratories and public health digital infrastructure
 - Prioritize vulnerable communities
- 7. Global Health. Establish international infrastructure and financing for pandemic preparedness**
 - Create local capacity and international systems
 - Catalyze sustainable international financing

IV. Build Core Capabilities

- 8. Personal Protective Equipment.** Increase effectiveness, comfort, affordability, and manufacturability
- 9. Stockpiles and Supply Chains.** Ensure U.S. ability to produce vital supplies
- 10. Prevent Catastrophic Biological Events.** Accelerate biosafety, biosecurity, and deterrence
- 11. Regulatory Improvement.** Ensure regulatory capacity for vaccines, therapeutics, and diagnostics

V. Manage the Mission

- 12. Mission Control.** Manage this national responsibility with the seriousness of purpose, commitment, and accountability of an Apollo Program and coordinate work with international scientific community

American Pandemic Preparedness: Transforming Our Capabilities highlights plan to protect the U.S. against future biological threats.

- Seven [questions](#) about Covid antivirals answered.
- HIPAA Vaccination Status: The Office of Civil Rights Issues [Guidance](#).
- U.S. sees [96,000 drug overdose deaths](#) in 12 month period.
- COVID-19 [lessons learned](#): campus safety & remote education.
- UK COVID Pass system [goes offline](#) stranding travelers.
- How college [pandemic predictions](#) turned out.
- [18 billion](#) worth of disasters during the first-nine months of 2021.
- Merck's Covid pill could transform treatment. [Here's how it works](#).
- FDA: lacks clear position on [Moderna's booster authorization](#).
- 'The Great Resignation': [4.3 million voluntary resignations](#) in August.
- HigherEd [policy database](#) gives institutions a new resource.
- Security oversight leaves [Harvard's sensitive files](#) vulnerable.
- [Vaccination strategy](#) that can neutralize Covid & prevent pandemics.
- NY [must allow religious exemptions](#) to vaccine mandate.
- Moderna has no plans to [share](#) its COVID-19 vaccine recipe.
- The best- and worst-case [scenarios](#) for Covid-19 this winter.
- DHS, DOJ: [new strategy](#) focuses on threat detection, recruitment.
- [Killware](#): by 2025, "cyber attackers to harm or kill humans."
- Pentagon's former [software chief](#): China has won the A.I. battle.

CALIFORNIA

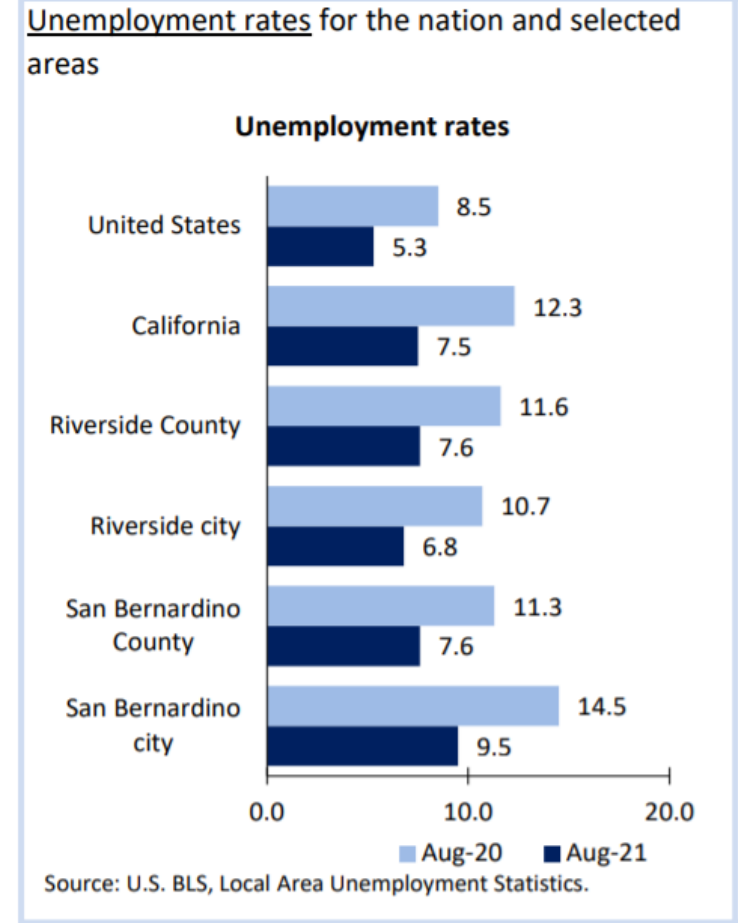
- Thousands of parents are expected to keep their kids home from school as part of a [statewide protest](#) against Gov. Gavin Newsom's recently announced [student vaccine mandate](#).
- Lawmakers [demand answers](#) from DPH about \$1.7B COVID testing lab.
- California ranked 3rd in new [study](#) on 'safest' states during pandemic.
- AG Says demands Facebook provide answers on "[XCheck](#)" program.
- Newsom vetoes [Cal Grant expansion](#) affecting 150,000 students.
- Cal Military Department (CMD) to [assist schools](#) with cyber prep.
- Moderate risk of [heavy precipitation](#) to southern Central Valley.
- Cal Fire: [\\$200m over budget](#) for fiscal year.
- Wildfire: A [poor use](#) of specialized resources.
- Fremont, CA will turn its city into a [test bed for traffic-safety data](#).
- "[Silenced No More Act](#)" ([SB 331](#)) takes effect January 2022.
- [Report](#) details state's corporate water misuse and abuse.
- New [law](#) to streamline the [transfer process](#) for community college.
- High winds prompt PG&E to [shut off power](#) to about 25k customers.
- Cal [Department of Justice](#) opens investigation into HB oil spill.
- [Indigenous Peoples' Day](#): Newsom announces new partnership.
- State facing [severe shortages](#) despite lifting restrictions and reopening.

DATE OF DISASTER	TYPE OF DISASTER
September 22, 2021	Fire (Fawn Fire)
September 7, 2021	Fire (Cache Fire)
August 30, 2021	Fire (Caldor Fire)
August 17, 2021	Fire (Caldor Fire)
August 10, 2021	Fires (Dixie, McFarland and Monument Fires)
August 5, 2021	Fires (Antelope and River Fires)
July 23, 2021	Fires (Dixie, Fly, and Tamarack Fires)
June - July 2021	Fires (Beckwourth Complex and Lava Fires)
July 8, 2021	Drought
May 10, 2021	Drought - Klamath River Watershed, Sacramento-San Joaquin Delta Watershed, and Tulare Lake Watershed
April 21, 2021	Drought - Russian River Watershed
January 29, 2021	Winter Storms
January 18, 2021	Windstorm

California [disasters](#) January – September 2021.

REGION

- [USCG investigators](#): cargo ship anchor may have impacted pipeline.
- Shigella [outbreak](#) reported among San Diego homeless.
- City Mgr. [stayed home during pandemic](#) - required staff at work.
- ARTS features work by [UCR faculty and alumni](#) in new exhibitions.
- RivCo launches new vaccine [campaign](#).
- Inland Empire [consumers](#) face the nation's highest inflation rate.
- COVID-19 testing lab has [moved](#) to Webber Hall.
- [Healthy Campus Newsletter](#) – Fall 2021.
- Information Security Policy: [IS-3](#).
- [‘Privacy 101 Online Webinar’](#) October 26, 1-4 p.m.
- OEM’s [Public Safety Announcement](#) on KUCR for ShakeOut 2021.
- Drake approves [extension](#) to use Emergency Paid Sick Leave (EPSL).
- [Alisal Fire](#) wreaks havoc – state secures [federal assistance](#) to support response in Santa Barbara County.
- Fundraising [campaign](#) aims to help Afghan scholars.
- Campus restaurants face [staffing shortages](#).
- Long Beach [SSO](#) shoots teen following an off-campus altercation.



[Riverside Area Economic Summary](#)
October 2021

[RivCo EOC](#) is currently activated to Level 3 (virtual) in support of the ongoing COVID-19 response.

COMMUNICATIONS

- **15 October :**
 - **Provost's Fall Campus Update**
 - **Staff Assembly General Meeting: Oct. 20 @12 noon**
 - **Benefits Open Enrollment begins on Thursday, October 28, 2021 at 8:00 a.m. and ends on Friday, November 19, 2021 at 5:00 p.m.**
- **14 October:**
 - **UCOP COVID-19 Digest**
- **13 October:**
 - **Events and gatherings—lifting capacity restrictions**
- **12 October:**
 - **Drake issues executive order requiring the flu vaccine for UC students, faculty and staff.**

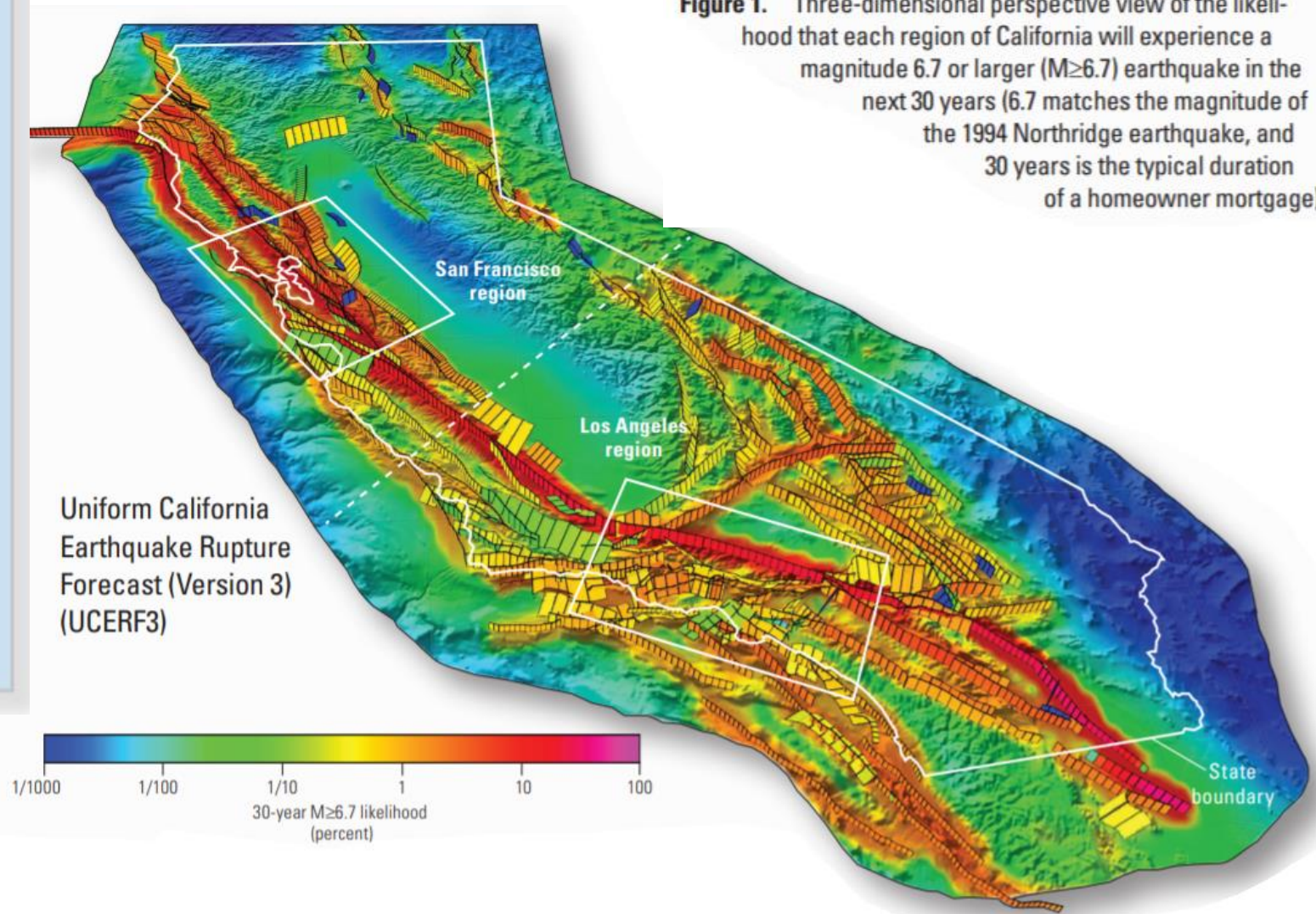
Please Reference Notes Section For More Information

NOTABLE

- [Guide to Surviving an Earthquake](#)
- [Earthquake Preparedness Checklist \(EPC\)](#)
- [List of Notable and Major California Earthquakes](#)
- [Major earthquake risks facing California](#)
- [The Great 1906 San Francisco Earthquake](#)
- [Memories Of California Earthquakes](#)
- [Third Uniform California Earthquake Rupture Forecast \(UCERF3\)](#)
- [Simulating 800,000 years of California earthquake history to pinpoint risks](#)
- [Earthquakes: the 10 biggest in history](#)
- [The Deadliest Earthquake Ever Recorded](#)
- [Model of Disaster-Related PTSD in Systematically Studied Survivors of 10 Disasters](#)
- [Survivors recount amazing escapes from earthquake](#)
- [Stories of survival keep hope alive as rescuers race clock](#)
- [10 years after Christchurch quake, survivors share stories](#)
- [3 Questions: Understanding the Haiti earthquakes](#)

Forecast for CA's Complex Fault System

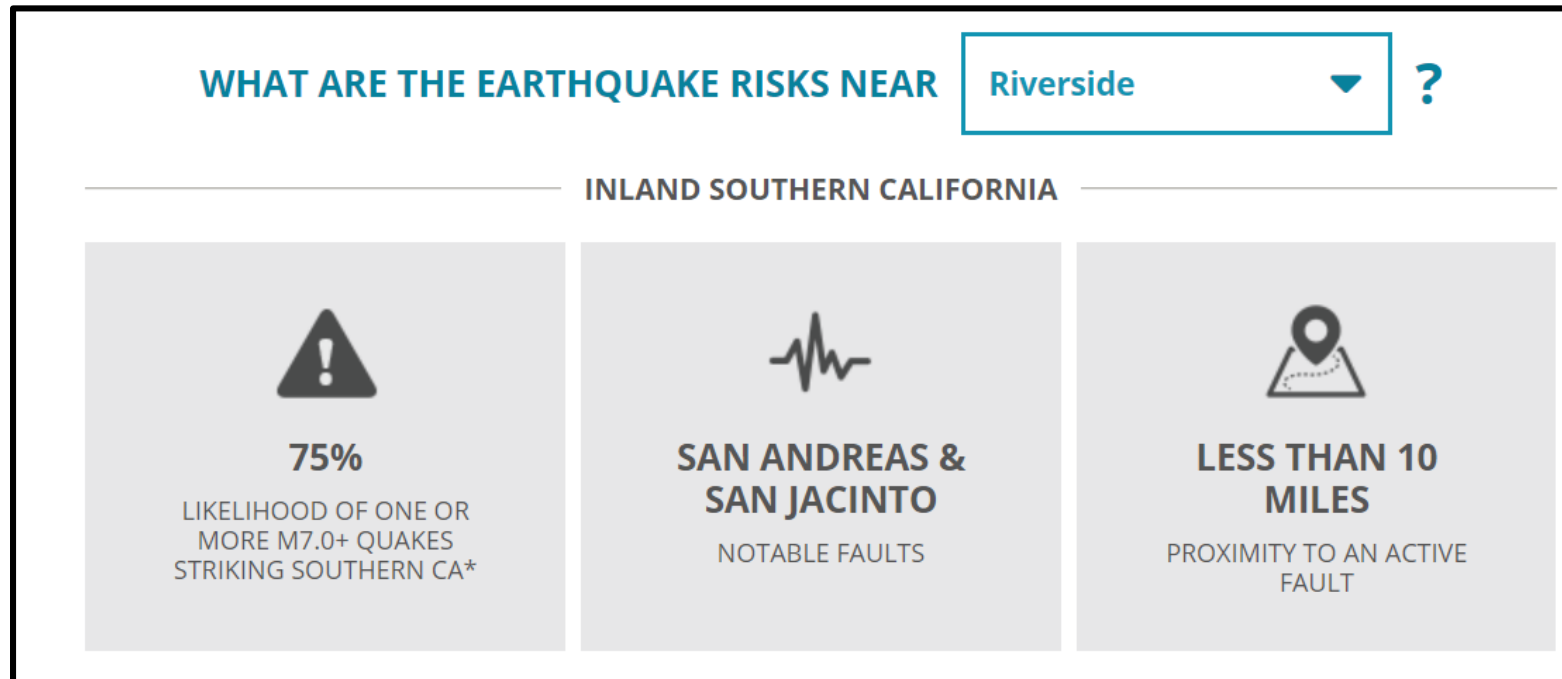
With innovations, fresh data, and lessons learned from recent earthquakes, scientists have developed a new earthquake forecast model for California, a region under constant threat from potentially damaging events. The new model, referred to as the third Uniform California Earthquake Rupture Forecast, or "UCERF3" (<http://www.WGCEP.org/UCERF3>), provides authoritative estimates of the magnitude, location, and likelihood of earthquake fault rupture throughout the state. Overall the results confirm previous findings, but with some significant changes because of model improvements. For example, compared to the previous forecast (UCERF2), the likelihood of moderate-sized earthquakes (magnitude 6.5 to 7.5) is lower, whereas that of larger events is higher. This is because of the inclusion of multifault ruptures, where earthquakes are no longer confined to separate, individual faults, but can occasionally rupture multiple faults simultaneously. The public-safety implications of this and other model improvements depend on several factors, including site location and type of structure (for example, family dwelling compared to a long-span bridge). Building codes, earthquake insurance products, emergency plans, and other risk-mitigation efforts will be updated accordingly. This model also serves as a reminder that damaging earthquakes are inevitable for California. Fortunately, there are many simple steps residents can take to protect lives and property.



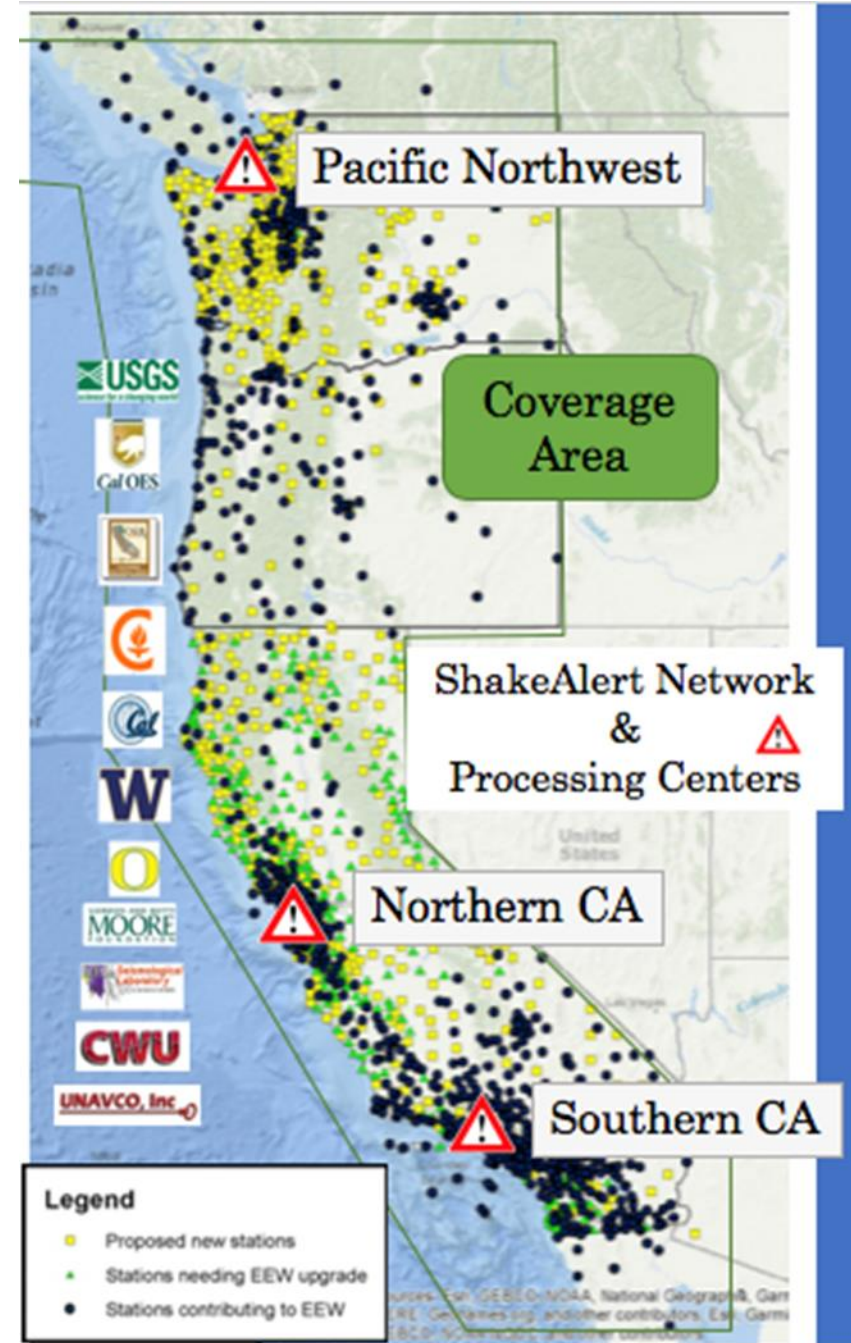
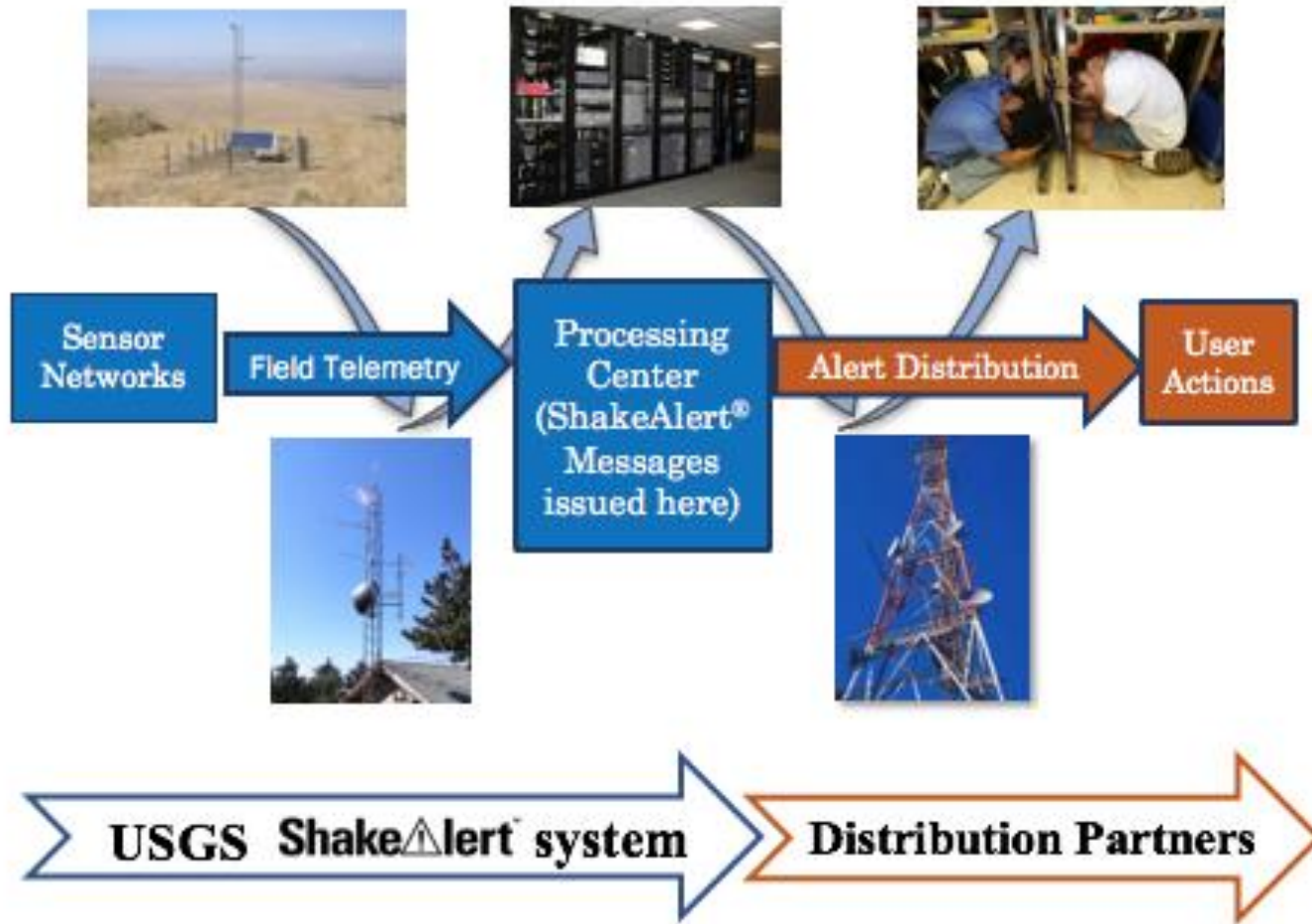
Earthquake Risk & Riverside County

Inland Southern California (Imperial, Riverside, San Bernardino)

- Inland Southern California resides along the [San Andreas fault system](#)
- The [San Andreas fault](#) can cause earthquakes—as big as magnitude 8
- A large part of the region’s population lives within 50 miles of the [San Andreas fault](#)
- Many other faults, such as the [San Jacinto fault](#), create smaller, yet more frequent earthquakes
- Soils in lowland areas away from major faults may be subject to [liquefaction](#)
- [Landslides](#) are possible on steep hillsides



West Coast Earthquake Early Warning System Components



Seven Steps to Earthquake Safety

- The Earthquake Country Alliance has worked with experts in earthquake science, preparedness, and mitigation to develop this step-by-step guide for staying safe before, during, and after an earthquake.
- For example, in [Step 1](#) you can move heavy, unsecured objects from top shelves onto lower ones. This will only take minutes to complete!
- A simple action in [Step 4](#) is to call your agent to learn about earthquake insurance options.
- To practice how to be safe during earthquakes ([Step 5](#)) you can [register](#) to participate in Great ShakeOut Earthquake Drills.
- The Seven Steps are also featured within the [Staying Safe Where the Earth Shakes](#) booklets, available in English, Spanish & other languages.



Step 1: Secure your space by identifying hazards and securing moveable items.

Step 2: Plan to be safe by creating a disaster plan and deciding how you will communicate in an emergency.

Step 3: Organize disaster supplies in convenient locations.

Step 4: Minimize financial hardship by organizing important documents, strengthening your property, and considering insurance.

Step 5: Drop, Cover and Hold On when the earth shakes.

Step 6: Improve safety after earthquakes by evacuating if necessary, helping the injured, and preventing further injuries or damage.

Step 7: Reconnect and Restore daily life by reconnecting with others, repairing damage, and rebuilding community.

What to Expect from FEMA Post Disaster?

A sobering list of how effective the Federal Emergency Management Agency (FEMA) has been in distributing supplies post hurricanes highlights the need for state and local jurisdictions to do more detailed planning on restoring their supply chains. Here are some averages from 2020:

- Ten days before first food and water arrived
- Commodities took an average 69 days to reach PODs
- Water experienced shipping delays of 71 days
- Food experienced shipping delays of 59 days
- Only 37% of water reached its intended destination
- Only 45% of food reached its intended destination
- Only 27% of municipalities received sufficient water in the first delivery
- Only 20% of municipalities received sufficient food in the first delivery
- Over the first 2 months, 24% of municipalities did not receive sufficient food or water for survivors
- 40% of municipalities received expired food and/or food that was “nutritionally deficient”



Protocol For Earthquake

If in a Classroom, Auditorium, or Laboratory

In a CLASSROOM OR AUDITORIUM:

- **Drop** to the floor where you are.
- **Cover** your head and neck with one arm/hand.
- Nearby tables or desks: crawl underneath and **Hold On** to your shelter with your free hand.
- Rows of chairs: get between the rows and **Hold On** to a chair with your free hand.
- Alternative: get next to a wall with no windows and cover your head and neck with both arms/hands.

In a LABORATORY:

- Step back from the lab table.
- **Drop** to the floor on your knees next to a wall, away from glass and other hazards if possible.
- **Cover** your head and neck with your hands and arms.
- **Hold On** to something sturdy if possible.



Protocol For Earthquake



Drop where you are,
onto your hands and knees.



Cover your head and neck
with one arm and hand.

Then crawl underneath the table or desk for additional shelter.
Stay on your knees and bend forward to protect vital organs.



Hold On to your shelter with one hand
Keep covering your head/neck with your other hand.

Shake
Out™

If you are near a sturdy desk or table

Protect Yourself During Earthquakes!

IF
POSSIBLE



DROP!

COVER!

HOLD ON!

USING
CANE



DROP!

COVER!

HOLD ON!

USING
WALKER



LOCK!

COVER!

HOLD ON!

USING
WHEELCHAIR



LOCK!

COVER!

HOLD ON!

¡Protéjase durante los terremotos!

SI ES
POSIBLE



¡AGÁCHESE!

¡CÚBRASE!

¡SUJETÉSE!

SI USA
UN BASTÓN



¡AGÁCHESE!

¡CÚBRASE!

¡SUJETÉSE!

SI USA
UNA ANDADERA



¡FRENE!

¡CÚBRASE!

¡SUJETÉSE!

SI USA
UNA SILLA
DE RUEDAS



¡FRENE!

¡CÚBRASE!

¡SUJETÉSE!

Resources

- [Southern California Earthquake Center](#)
- [California Earthquake Authority \(CEA\)](#)
- [California Institute of Technology](#)
- [University of California Berkeley](#)
- [University of Washington](#)
- [University of Oregon](#)
- [ETH Zurich \(SED\)](#)
- [Gordon and Betty Moore Foundation](#)

Los Angeles

- [L.A. City Emergency Alerts](#)
- [L.A. City Emergency Management Department](#)
- [L.A. County Office of Emergency Management](#)
- [L.A. Police Department](#)
- [LAPD Chief Michel Moore](#)
- [L.A. Sheriff's Department](#)
- [L.A. County Sheriff Alex Villanueva](#)
- [L.A. Fire Department](#)
- [LAFD Air Ops](#)
- [LAFD Chief Terrazas](#)

- [MyHazards](#)
- [California earthquake information](#)
- [North Coast Earthquake and Tsunami information](#)
- [Fault maps, historic earthquakes, how the ground is expected to shake](#)
- [Forecast of California Earthquakes](#)
- [Earthquake Shaking Maps and Data of California](#)
- [Maps of recent earthquakes, ShakeMaps for larger earthquakes](#)
- [Earthquake, Tsunami, and Volcano Hazards and Mitigation Information](#)
- [ShakeOut Scenario](#)

Riverside

- [Riverside Emergency Services](#)
- [Riverside Emergency Management](#)
- [Riverside Fire Department](#)

Twitter

- [American Red Cross @RedCross](#)
- [USGS ShakeAlert @USGS_ShakeAlert](#)
- [ShakeAlertLA @LaAlert](#)
- [MyShake @MyShakeApp](#)
- [FEMA Region 9 @FEMARegion9](#)
- [LA QuakeBot @earthquakesLA](#)
- [CEA @CalQuake](#)
- [Cal OES @Cal_OES](#)