

A photograph of the Golden Gate Bridge in San Francisco, viewed from a low angle across the water. The bridge's iconic orange-red towers and suspension cables are prominent. In the foreground, a green plant with large, pointed leaves is slightly out of focus. The sky is a clear, pale blue.

The Future of Earthquake

Early Warning is Here.

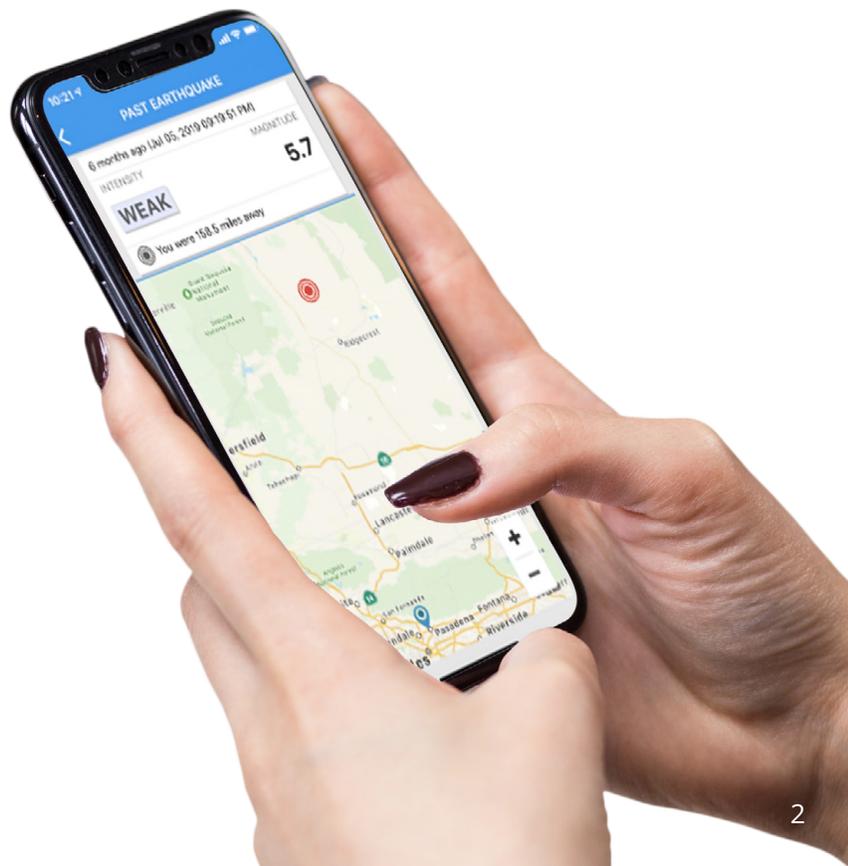
How Early Warning Labs is preparing
the West Coast for the next big quake.

Proprietary technology that saves lives.

There is a 99.7% chance that California will experience an earthquake of magnitude 7.0 or greater in the next 30 years.

When that happens, the number of lives lost, the amount of property damage and the extent of personal injuries suffered in the quake will depend in large part on how much we have prepared.

Early Warning Labs is at the **forefront of earthquake early warning technology**. Our proprietary hardware and software systems allow organizations of all kinds to automate notifications and other safety features to prevent injuries and limit property damage in the event of a major earthquake.





About Early Warning Labs

Early Warning Labs (EWL) is an **official licensed partner of the US Geological Survey**, and the nation's leader in earthquake early warning technology. EWL works in partnership with leading institutions and seismology researchers to innovate at the forefront of earthquake early warning.

EWL is currently helping organizations across the West Coast — including businesses, government agencies, nonprofits and schools — prepare for the next big quake.

Our Collaborators





What can earthquake early warning accomplish?

- Save lives
- Prevent up to 50% of all injuries
- Assist first responders for maximum efficiency and effectiveness
- Help protect vital public infrastructure
- Help in the prevention and response to secondary emergencies like entrapment and widespread fires
- Minimize damage to property
- Protect against the release of hazardous chemicals and other substances

How does earthquake early warning work?

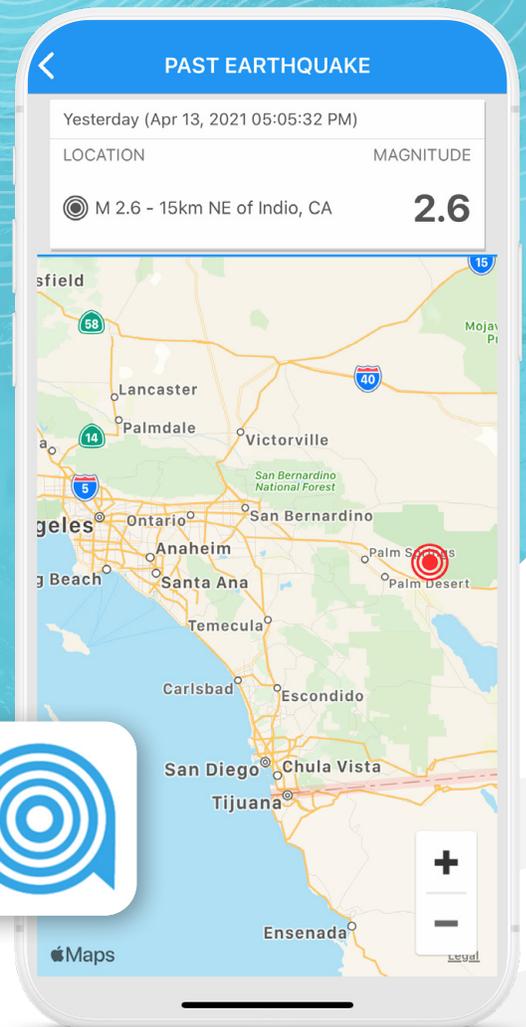
- ① **USGS sensors placed throughout the Western U.S. detect Primary waves (P-waves), the fast-moving but relatively harmless waves that first emanate from the epicenter of an earthquake**
- ② **Based on these readings, USGS rapidly calculates:**
 - Where the Secondary wave (S-wave), the slower but more destructive wave, will travel
 - When the S-wave will reach different areas
 - How intense the ground shaking will be in those areas
- ③ **EWL's proprietary technology helps to mitigate damage and prepare people for the quake (protect people and property) through:**
 - Instant mass notifications
 - A variety of customizable automated safety features

Notifications

Studies indicate that half of all earthquake-related injuries can be mitigated with early warning.

EWL provides advance warning of up to 60 seconds to individuals and partner organizations via:

- **QuakeAlert®**, the free consumer app available on the **App Store** and **Google Play**
- Integration with organizations' existing communication systems, such as intercoms, PA systems, closed-circuit television, 2-way radios and other technology



By taking simple precautions ahead of the ground shaking, you can greatly reduce your chances of being injured in an earthquake.

Here are some of the safety measures you can take when given even a few seconds of advance warning:

- Drop, cover and hold on
- Seek shelter under sturdy objects like desks or tables
- Move away from windows
- Move away from falling hazards like fixtures, bookcases, machinery and other heavy unsecured objects
- Stop moving and stay in place until shaking stops
- Pull vehicles over to the side of the road
- Shut off or stop using potentially dangerous machinery



Integration & Automated Safety Features

EWL's proprietary hardware systems integrate directly with existing building infrastructure, communication and control systems, and other technology.

This integration enables a nearly endless array of safety automation features that can be customized to your organization's needs. Here are a few of the critical safety features that EWL can help you implement:

- **Automatically deliver alerts over existing communication systems like PA, closed circuit TV, intercoms**
- **Shut down municipal and building gas lines**
- **Open bay doors to keep emergency vehicles from being trapped inside**
- **Secure hazardous chemicals**
- **Move elevators to the nearest floor & open doors to prevent entrapment**
- **Automatically switch to emergency power systems**
- **Shut down and/or secure expensive or dangerous machinery**
- **Automatically slow or stop public trains**
- **Alert air traffic control to keep planes from taxiing or landing**
- **Pause surgeries and other dangerous procedures in healthcare settings**



QuakeAlert Early Warning App

QuakeAlert is EWL's proprietary early warning app, available **100% free** through the App Store and Google Play.



QuakeAlert allows users to receive automatic notifications of impending ground shaking based on their current location. These notifications allow users to take the appropriate precautions to **help protect lives and prevent injuries**.

QuakeAlert notifications include:

- Expected Arrival Time
- Expected Intensity
- Your Distance From the Epicenter
- Magnitude
- Suggested Safety Measures





About Early Warning Labs

Early Warning Labs (EWL) is an official licensed partner of the US Geological Survey, and the world's leader in earthquake early warning technology. EWL provides comprehensive early warning solutions that allow public and private organizations across the globe to protect their people and property during major earthquakes.

Contact us today to learn how we can help your organization prepare for the next big earthquake.

[Contact Us](#)