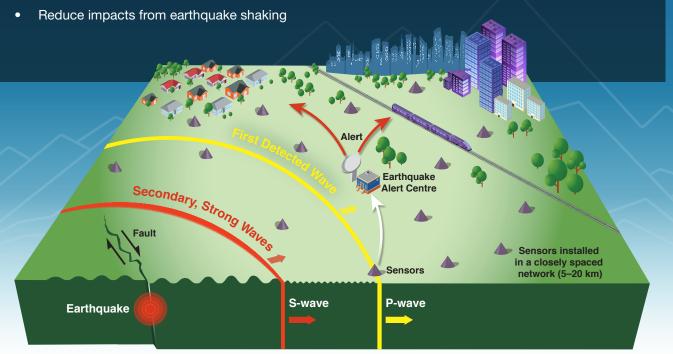
Earthquake Early Warning

Protect People & Infrastructure From Earthquakes

MAKE SECONDS COUNT

Benefits to Communities:

- Enable people to take safe actions, such as drop, cover and hold on
- Trigger automated systems to take protective measures



What is Earthquake Early Warning?

Earthquake Early Warning (EEW) is the rapid detection of earthquakes, real-time estimation of the shaking hazard, and notification of the expected shaking about to occur. In an EEW system, seismic sensors detect the first (P-wave) energy radiating from an earthquake. A warning is generated through rapid transmission and processing of data **before** the arrival of the secondary, generally stronger S-waves, which can cause the most damage.

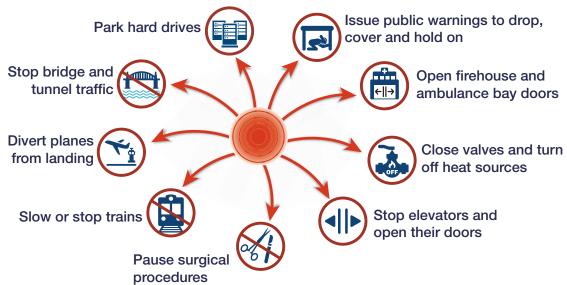


It's Not a Matter of "If" But "When" the Next Big Earthquake Will Occur

The EEW system will add protection by providing an alert seconds to tens of seconds **before** strong shaking starts. Effective and immediate protective measures can help reduce injuries, deaths, systems failures, and property losses.

Warning times range from a few seconds to tens of seconds, depending on how far you are from the earthquake. The further you are from the epicentre, the more warning time you will have. Alerting may not be possible, however, for sites very close to an earthquake's epicentre.

Be Alert! Take Action!



EEW Alerts

To the public through the National Public Alerting System: earthquake shaking imminent – take protective actions (e.g. drop, cover and hold on)

To Emergency Coordination Centres and Critical Infrastructure operators: tailored messages to trigger automated and/or protocol protective actions

For More Information

Visit: https://earthquakescanada.nrcan.gc.ca/eew-asp/system-en.php

Contact: EEWinfo-infoASP@NRCan-RNCan.gc.ca

Preparedness: https://www.getprepared.gc.ca/index-en.aspx

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