Connectivity

COMMUNITY SOLUTIONS
Every Community has a Vision.

Using Connectivity to Stop SkyTrains Before an Earthquake Hits

In 2011, an earthquake measuring 9.1 in magnitude hit Japan causing immense damage. However, before the earthquake hits the cities, the high-speed trains came to an early stop thanks to an early warning system implemented years before. This saved both infrastructure and lives.

In 2018, TransLink connected the Canada line to Ocean Networks Canada's earthquake sensor network. This network of sensors provides real-time notifications of seismic activities off the coast of British Columbia. This data can be leveraged by local governments and organizations to automate infrastructure to preemptively adapt to the impacts of earthquakes or provide notifications to the public before earthquakes arrive in populated areas. Activities like these demonstrate how the internet can be used to connect sensors and real-time data to public infrastructure to safe lives and make infrastructure more resilient to natural hazards.

MORE INFORMATION

Project Page: https://www.oceannetworks.ca/ocean-networks-canada-partners-canada-line-operators-simulated-earthquake-early-warning-exercise

Ocean Networks Canada: https://www.oceannetworks.ca/earthquake-early-warning

Japanese Early Warning System: https://www.jreast.co.jp/e/press/20071102/