

New Early Warning System, the end-to-end solution for early detection of ground movements

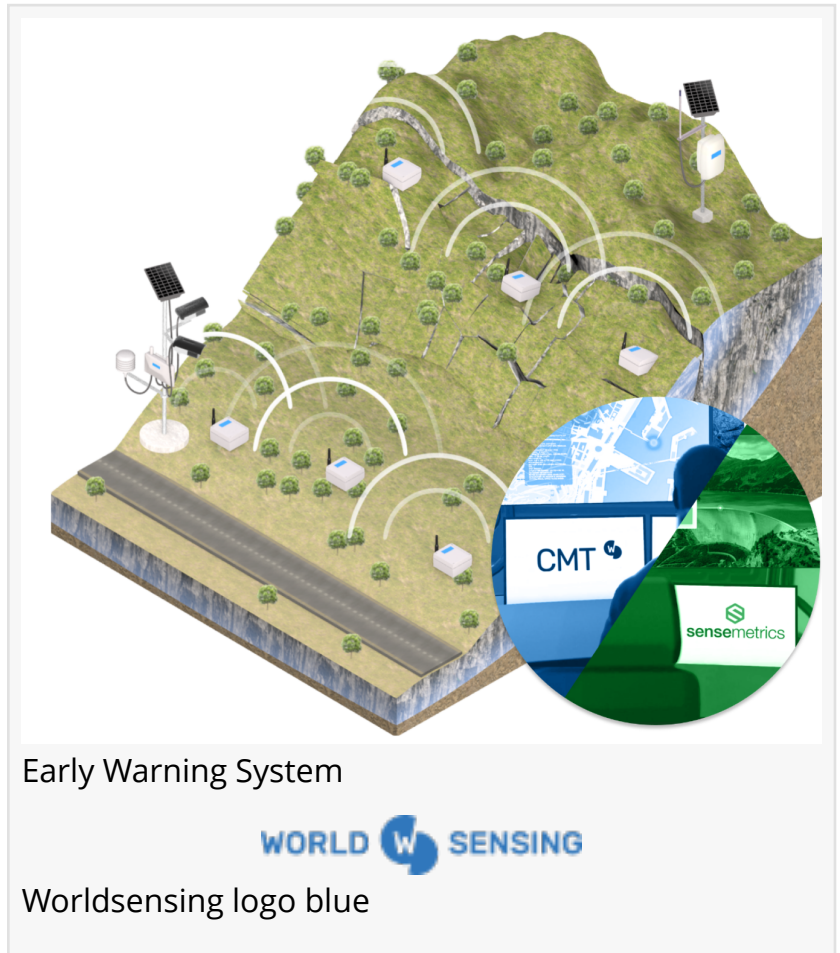
Featuring wireless sensors and real-time data visualization software

BARCELONA, BARCELONA, SPAIN, November 6, 2023 /EINPresswire.com/ -- Climate change and increasingly rigorous regulations are compelling infrastructure owners to better prevent and minimize the effect of natural disasters. The potential collapse of critical ground structures (such as slopes, embankments and alike) poses significant environmental and societal risks, requiring vigilant monitoring in industries such as mining, transportation, and construction.

Engineers require advanced early warning systems capable of real-time trend analysis and rapid response, but the complex integration of sensors, networks, and software often poses challenges for engineering firms.

The [Early Warning System](#), a comprehensive solution for early detection of ground movements In this context, [Worldsensing](#) has teamed up with Sensemetrics, the IoT data visualization platform, to launch the Early Warning System, an end-to-end solution designed to detect ground movements in real time and automatically trigger preventive actions.

This new offer is an easy-to-deploy, plug-and-play system, featuring wireless sensors and seamless data visualization software that minimizes IT resources and expertise.



Wireless sensors

Worldsensing provides the Event Detection Tiltmeter solution, a robust device with edge-processing capabilities, delivering threshold-based alerts in a few seconds. This sensor is capable of transmitting data via long-range radio to a gateway connected to the Internet up to 9 miles/15 km away.

Data Visualization Platform

The sensors seamlessly integrate with Worldsensing's CMT and Sensemetrics platforms using MQTT protocols. Alert notifications are sent with a minimum 2-second latency, enabling engineers to activate cameras, sirens, or other alert control systems with precision.

Connectivity

The system is complemented with a ThreadX3, enabling the connection of data-intensive sensors like cameras, weather stations, sirens, etc., that enhances overall system robustness and supports actions and response plans. This autonomous sensor connectivity device comes with an optional integrated 4G/LTE cellular modem and wireless mesh networking.

Worldsensing's Early Warning System empowers our clients to proactively manage risks, respond in real time, and develop data-driven strategies to safeguard infrastructure, protect the environment, and ensure the well-being of local communities.

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