



# Innovative Vibration Monitoring

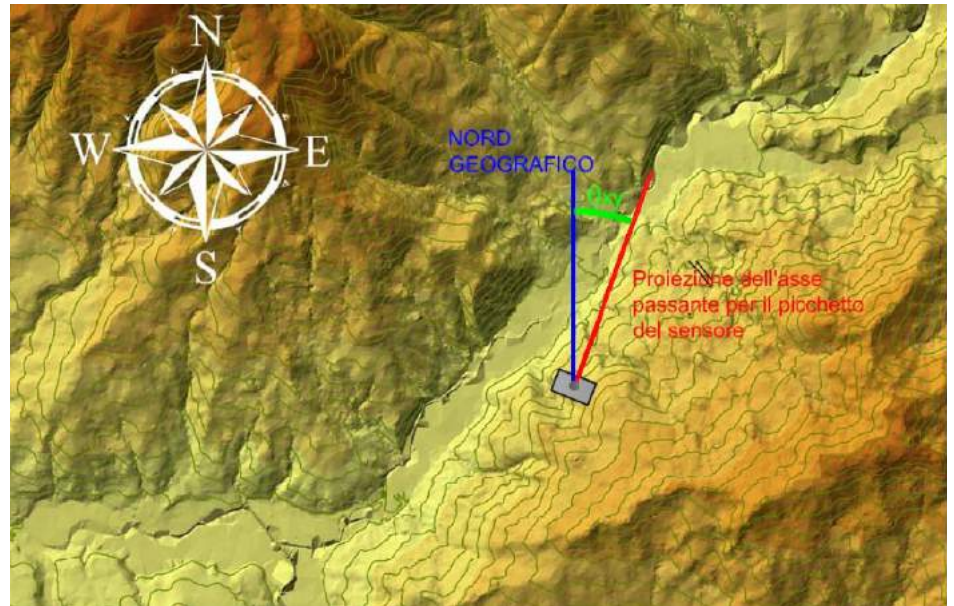
## EW-LMS

### EARLY WARNING - LANDSLIDES MONITORING SYSTEM

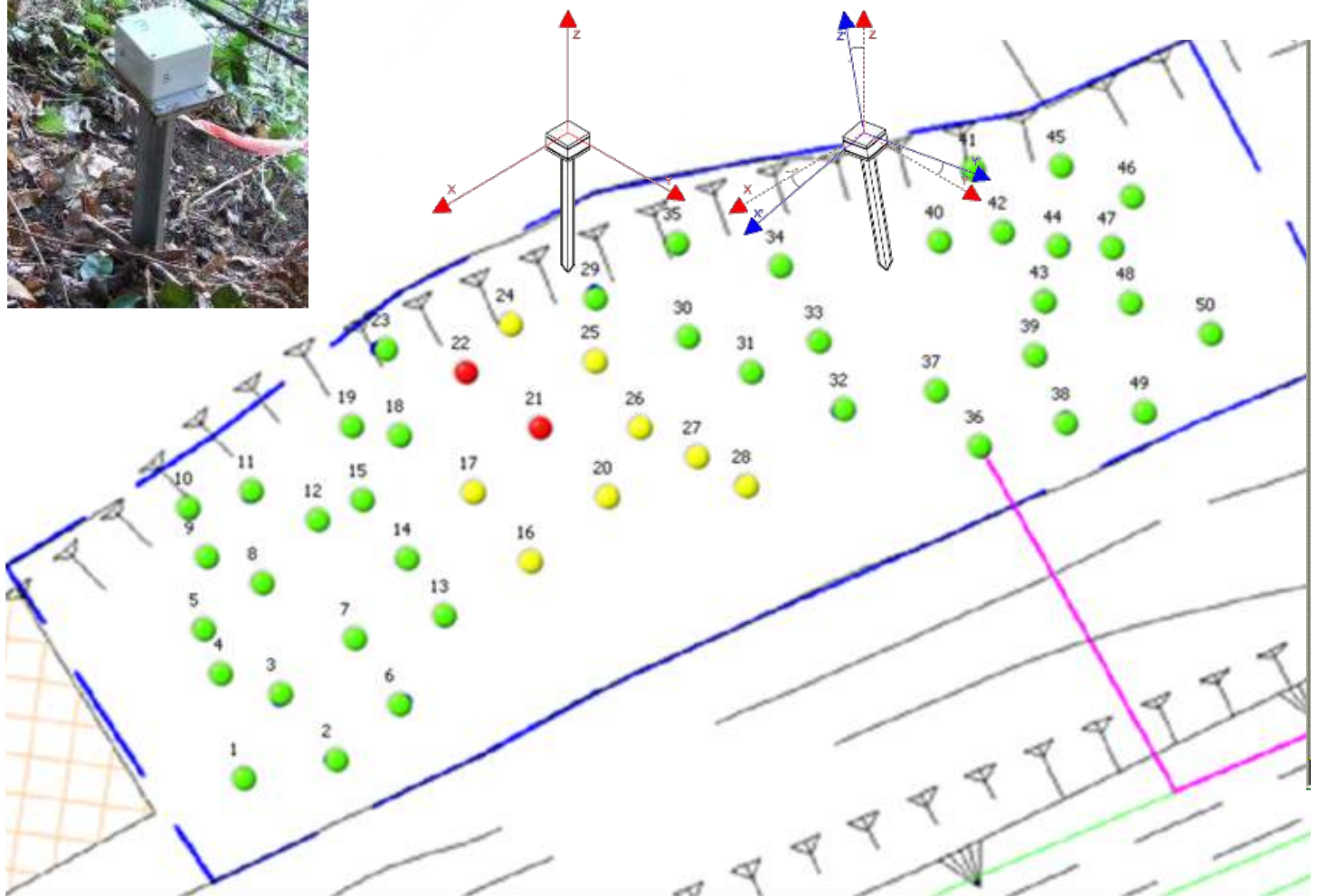


# EW-LMS

## Early Warning-Landslide Monitoring System

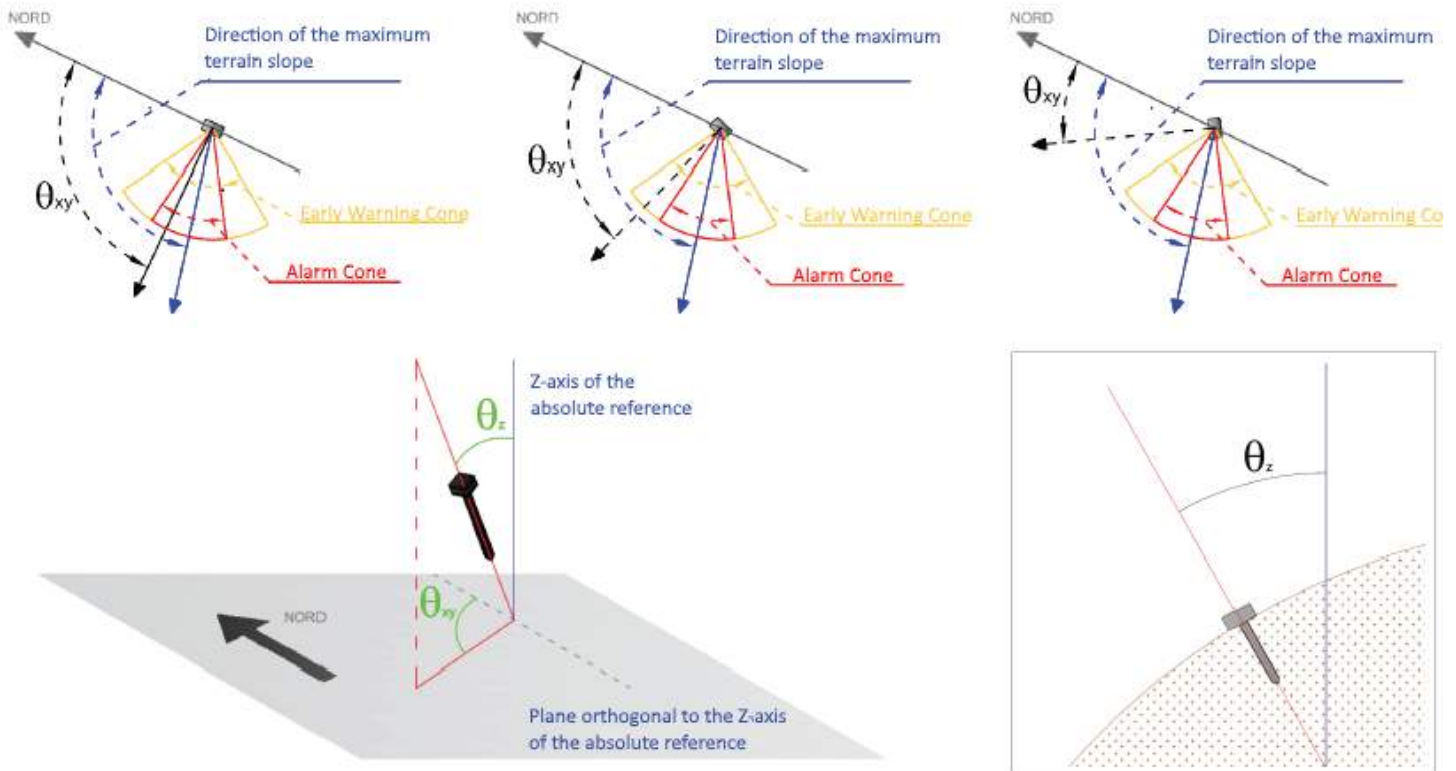


Railway lines running through mountainous areas are often characterized by sections overlooking artificial slopes. Intense and sudden rainfall, increases the likelihood of breakage of these slopes and consequent rapid mudslides and debris, which can lead to high risk situations for trains circulation safety. The **EW-LMS** system is designed to detect possible landslides and promptly provide alarms, so as to suspend the trains circulation proactively.




# EW-LMS

## Early Warning-Landslide Monitoring System



The **EW-LMS** system is able to monitor in real time even large areas through a network of inclinometer sensors that measure the head rotation of instrumented shafts stuck into the ground, and consequently the occurring landslide. The combined use of terrain moisture sensors, for each point in the network, allows to determine the conditions of imminent danger and therefore to generate alert conditions.

### System State



**Legenda Stato del Sistema**

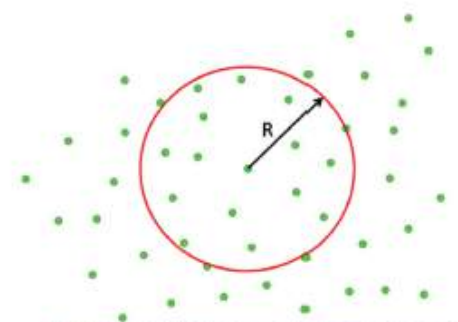

- Stato normale
- Stato di pre-allarme
- Stato di allarme

**Working**

- Active
- Standby

**Battery**

- Ok
- Critical

Ultima acquisizione: 00.00.00.000 DD/MM/YYYY

Prossima acquisizione: 00.00.00.000 DD/MM/YYYY

Numero Acquisizioni effettuate dal:

The system provides a remote monitoring and control system, and an overview of the situation and an overall synthetic evaluation of the monitored area. The system is completely wireless and battery powered, and is particularly low-cost in terms of equipment, installation and ordinary maintenance.

### ITALIAN PATENT

Title: System and method for landslide risk areas monitoring

Italian Patent Licence: May 3, 2012 patent n. 0001393752



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