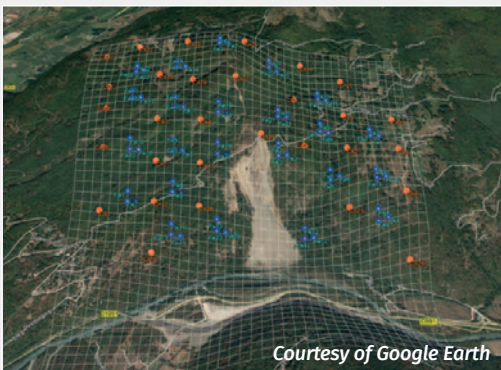


The growing interest in geophysical methods such as Electrical Resistivity Tomography

CASE STUDY



All in phases from design, construction and management, including safety, are challenged by climate change and land pressure. The populations exposed in the event of incidents of any kind are growing, forcing all dam stakeholders (designers and owners) to integrate new practices and even innovate in monitoring methods.

The number of dams being installed and monitored is growing to meet challenges such as access to water for agriculture and the daily needs of populations, and hydroelectricity production. Added to these are the tailing dams that are multiplying in line with new mining operations to meet exponential demand for low-carbon energy. The regulation for Tailing dams surveillance could be revisited in the light of geophysical knowledge in order to guarantee their integrity and adapt to the various challenges they face.

IRIS Instruments proposes different equipment able to characterize the underground (for any type of dams) and to monitor earth dam behaviors.

The growing interest in geophysical methods such as Electrical Resistivity Tomography

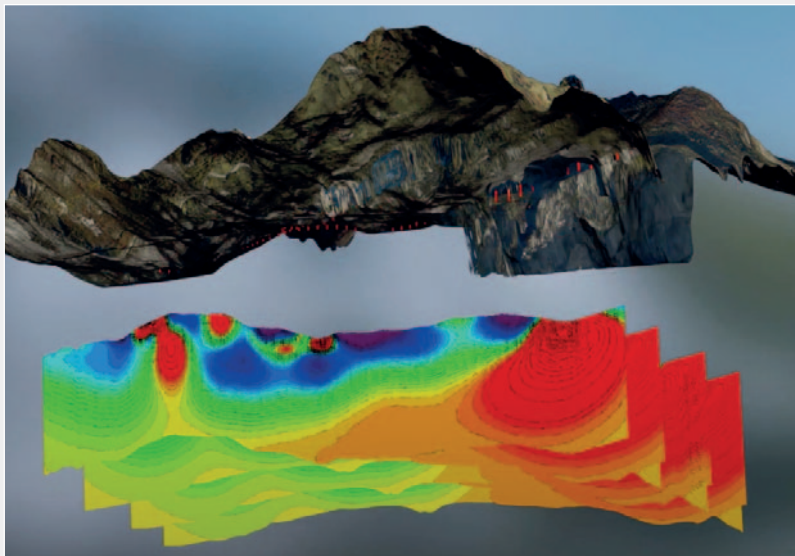
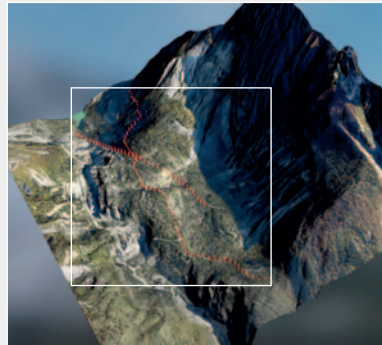
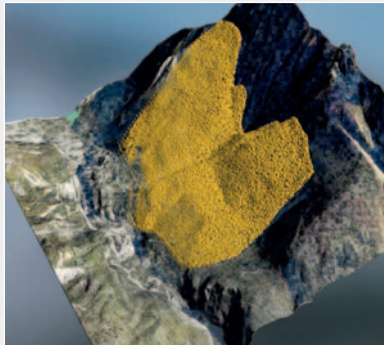


One example of where the Fullwaver system has already proved its efficiency is the Vajont Dam in Italy:

CASE STUDY



Left: The giant Landslide.
Right: Fullwaver survey.



Final resistivity model -
The ERTLab Studio
processing of Fullwaver
data detects the slip
surface in it's full 3D
complexity.

Thanks go to Geostudi Astier, University of Palma and the OGS for all their work and involvement.

