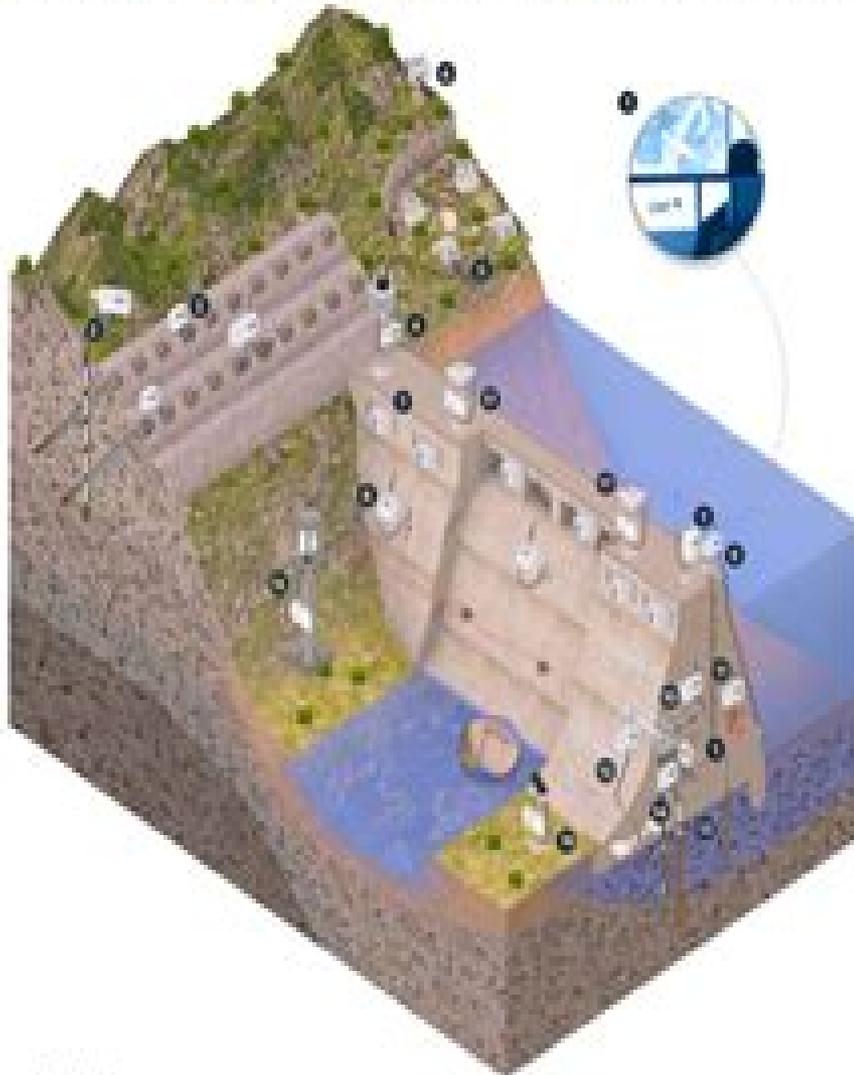


Monitor Dams more Efficiently



- 1 Remotely manage your networks, devices and data integrations from **IoT Workflows**, Connectivity Management Tool. Stream your monitoring data streams from **IoT to Sensewatcher** platform to make data informed decisions on the overall performance of your dam.
- 2 Measure the lateral movement of the slopes using an in-place inclinometer connected to a **digital logger**.
- 3 Measure the force in ground anchors with the **ForceOne** or a **3-channel vibrating wire data logger** connected to a field cell.
- 4 Monitor weather conditions such as wind, rain, temperature, relative humidity, and barometric readings with a weather transmitter connected to a **digital logger**.
- 5 Detect slope movements in real time faster than 2 seconds in most cases through the **TRIMble wireless Stimulators for the Event Detection Solution**.
- 6 Check the relative distance variation of the slopes with the **LaserTRIM**, a 1- or 2- or 3 laser distance meter, inclinometer and data logger, working at a large surface.
- 7 Measure 3D structure response to shear, angular distortion or horizontal displacement with the **Tetra-4**, a 2- or 3- or 4 inclinometer and data logger, rotated using a vertical rotating bracket.
- 8 Check the movement across surface cracks and joints and building response to tunnelling with the **ForceOne** or **Vibrating wire 1-channel data logger** connected to a strainmeter or displacement sensor (potentiometer) or vibrating wire.
- 9 Monitor the water levels in the reservoir with an automatic level recorder connected to a **digital logger**.
- 10 Assess the dam response to temperature with a chain of temperature sensors connected to a **digital logger**, or up to five thermistors with **3-channel vibrating wire**.
- 11 Monitor the axial stress in the concrete dam body with a strain meter, shafts connected to a **3-channel vibrating wire**.
- 12 Assess the contact earth pressures on the surface of concrete with pressure cells connected to the vibrating wire **3-channel data logger**.
- 13 Measure the relative displacement between foundation base rock and the dam bottom with a multiple-channel extensometer connected to a **3-channel vibrating wire**.
- 14 Monitor pore water pressure through vibrating wire piezometers in a borehole connected to a **vibrating wire 3-channel data logger**.
- 15 Compensate your geotechnical monitoring with a **Total Station** connected to a **Thread K3** for accurate movement detection, integrate surveying, imaging and scanning capabilities the remote projects.
- 16 Integrate automated remote visual observations to your condition monitoring program with a **field camera** connected to a **Thread K3**.
- 17 Accurately measure 3D displacement of structures and ground movement using precision **IMOS** sensors connected to a **Thread K3**.

Smart Structures Dams

Katrin Zwirgmaier



Smart Structures Dams:

Uncover the mysteries within its enigmatic creation, **Smart Structures Dams** . This downloadable ebook, shrouded in suspense, is available in a PDF format (*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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