

Smart Soil Sensing

Singapore WaterTech Virtual Event

March 24, 2021



Vadose-zone Monitoring System™

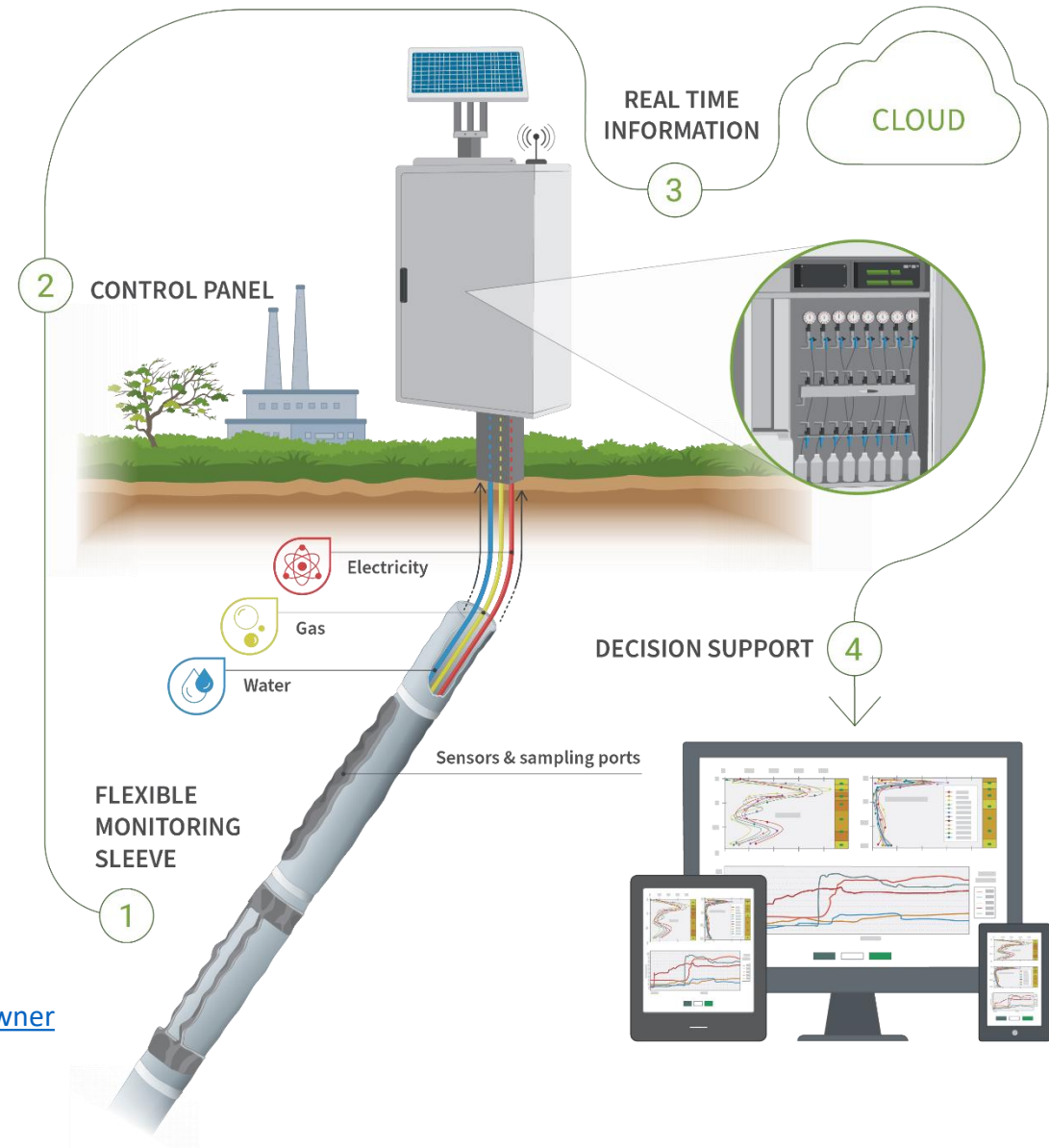
VMS - Patented and Proven

Flexible sleeves (1) implemented in uncased, slanted boreholes, host multiple water content sensors and sampling ports.

VMS data collection and sample retrieval is managed through the VMS control panel, installed on-site (2).

Real-time data, is accessible via the cloud (3).

Decision supporting data is customized according to customer requirements (4).



 https://youtu.be/_16ZMvrSmMU

 https://www.youtube.com/watch?v=uS20RMNu9xo&feature=em-upload_owner

Customers



中国石油天然气股份有限公司
PetroChina Company Limited



State of Israel



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TECHNOLOGIES

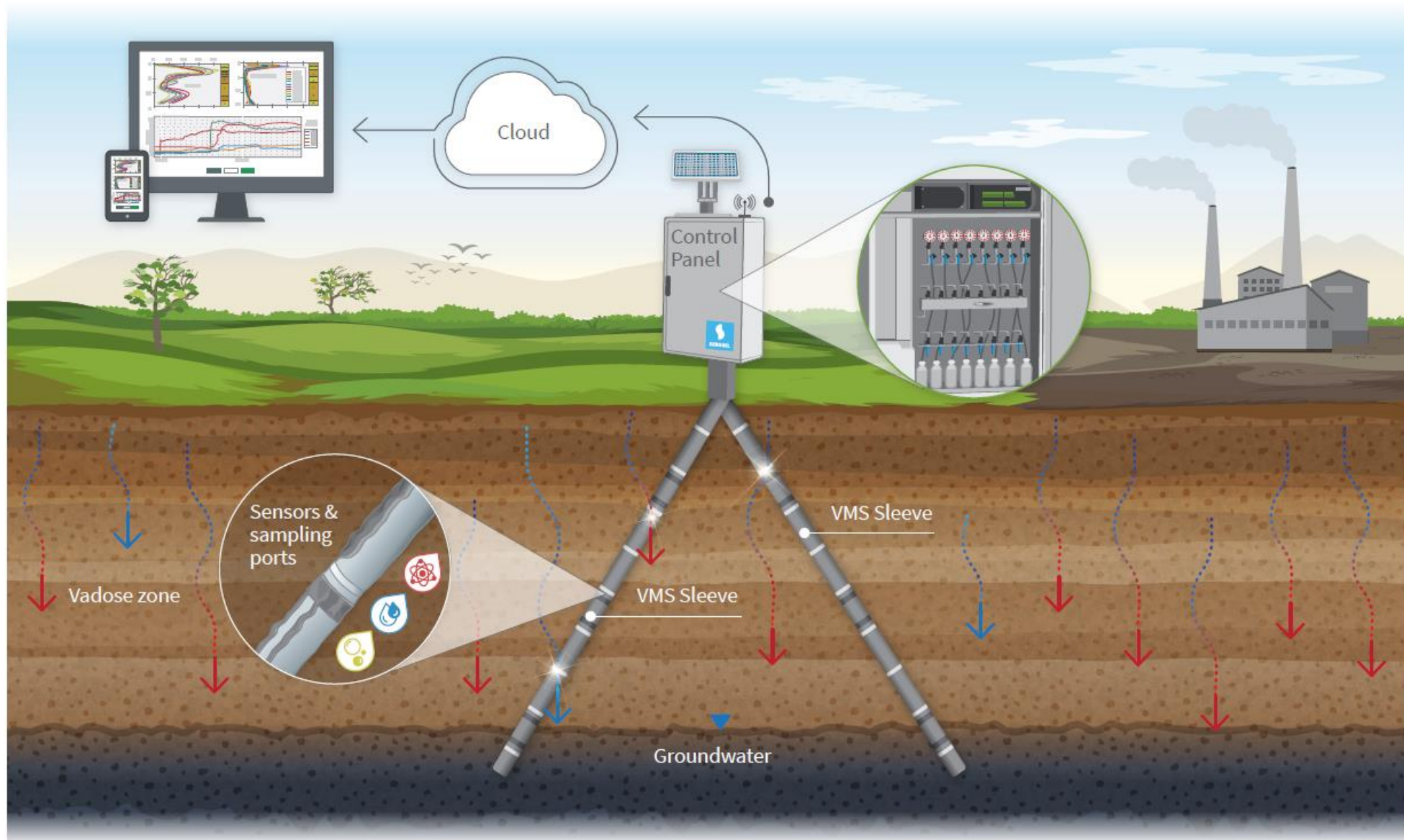


Federal Ministry
of Education
and Research

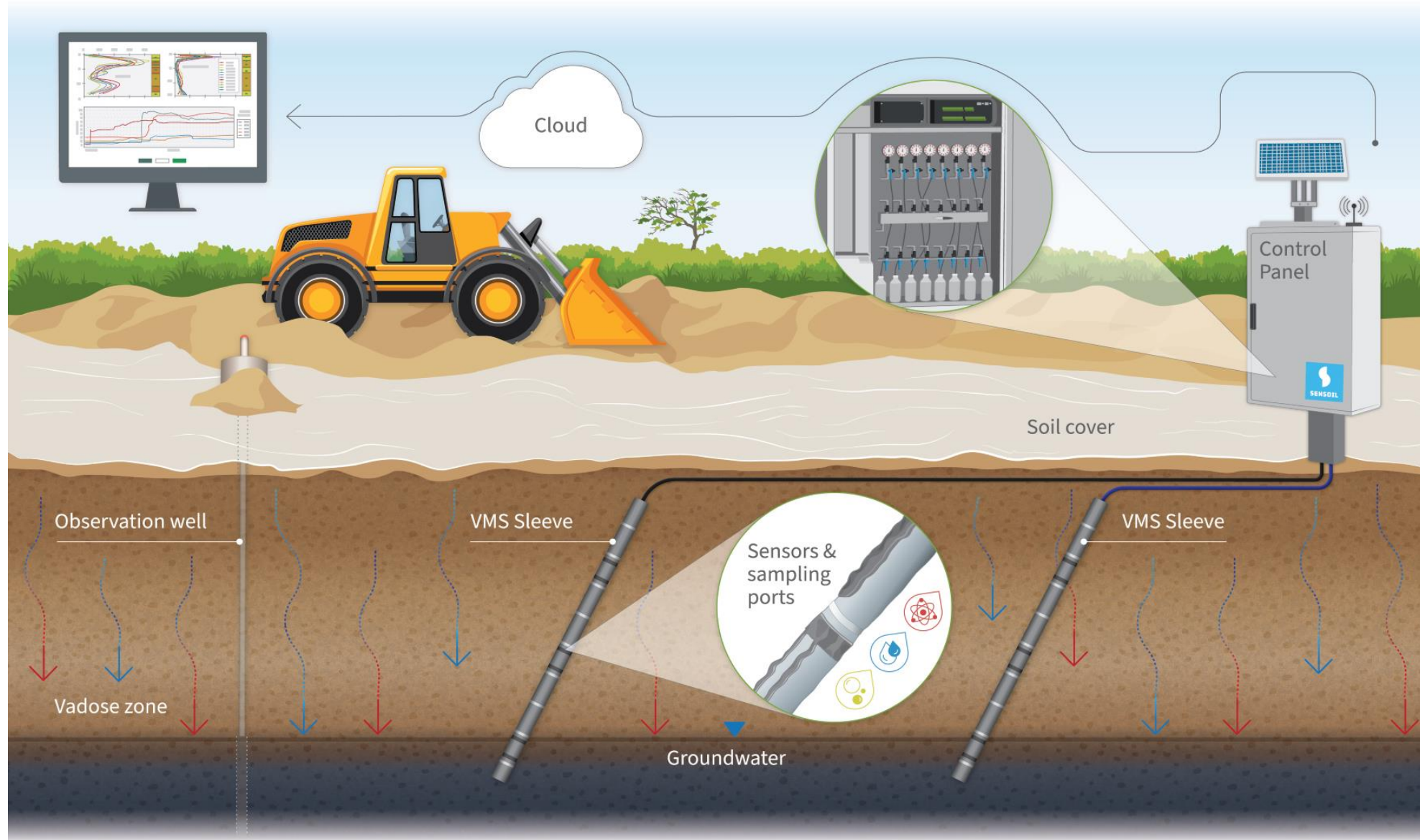


*via UCDavis

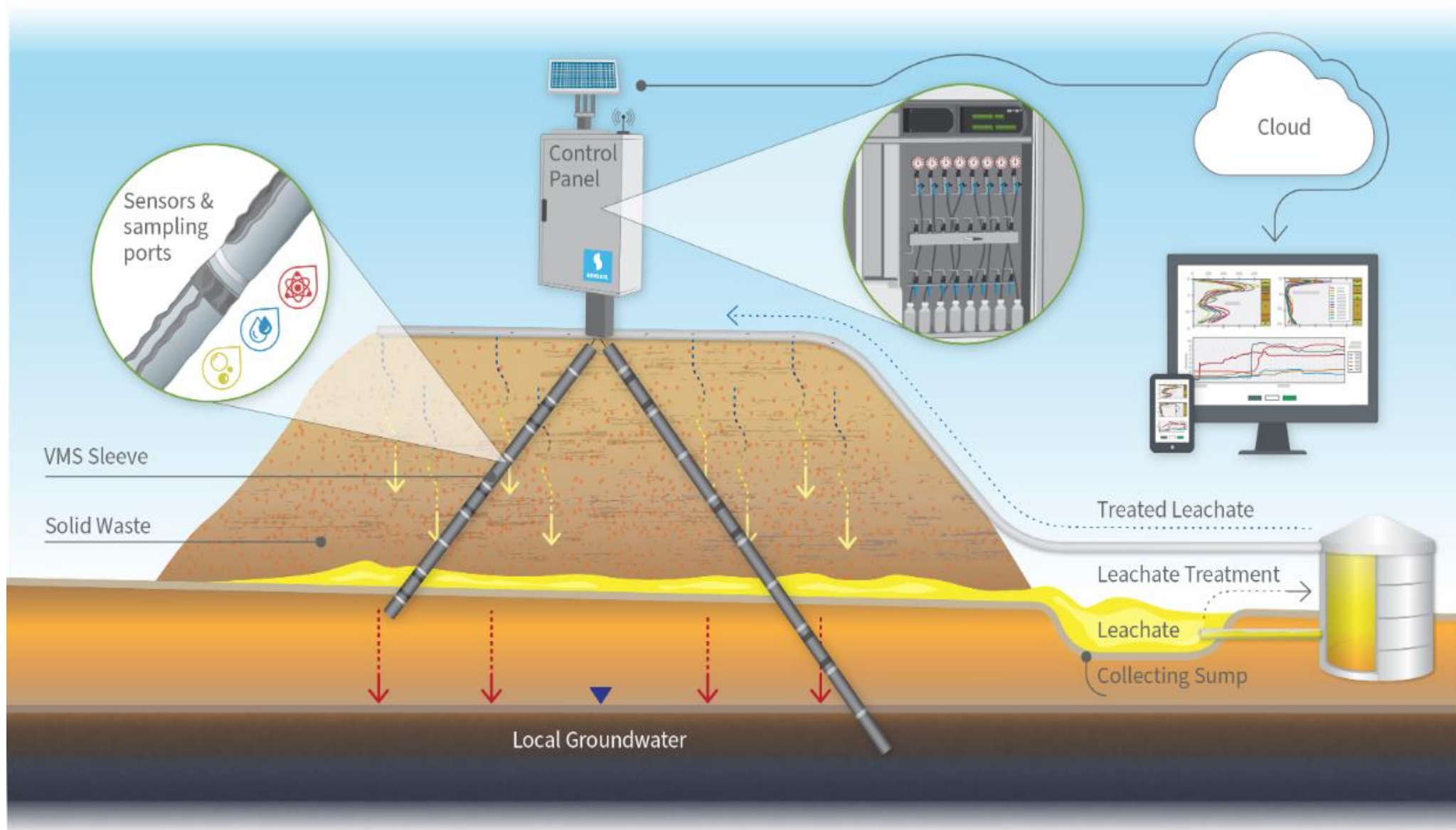
The VMS Station – Typical Setting



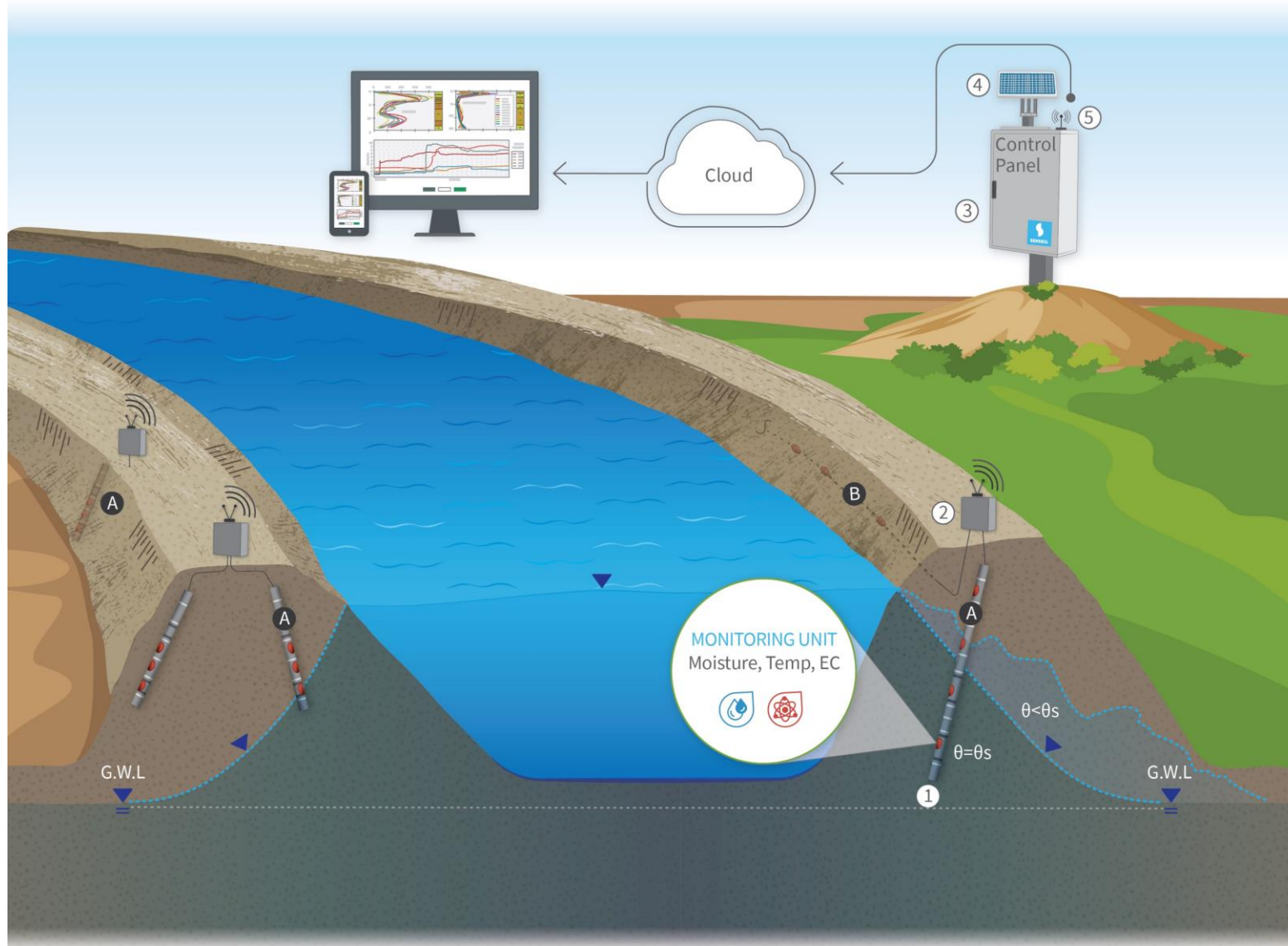
Remediation Optimization in-situ



Landfill Control & Operation Optimization



Typical Monitoring Setting for Levees



A VMS station

1 FTDR sensor

2 Communication box

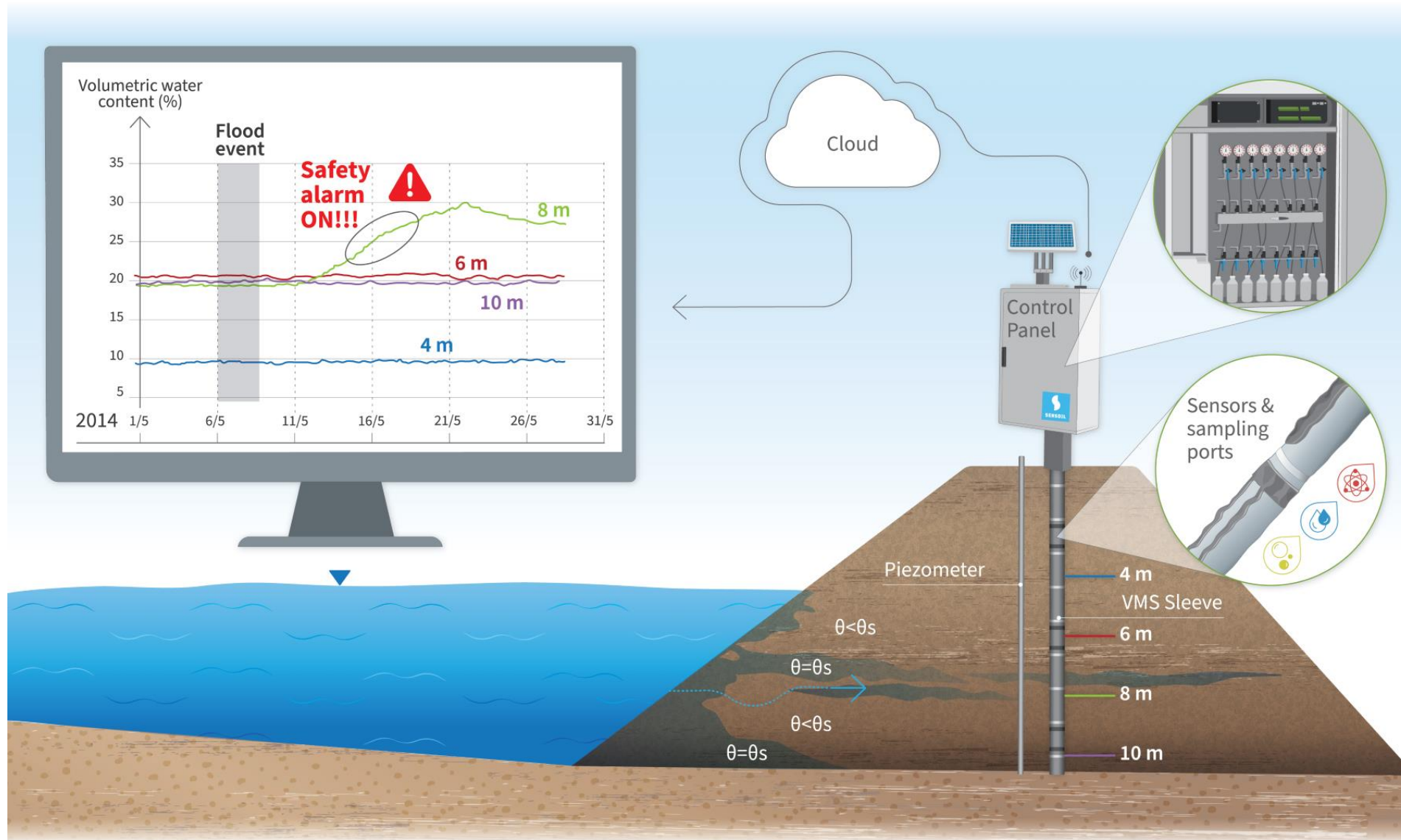
3 Central control panel

4 Solar system

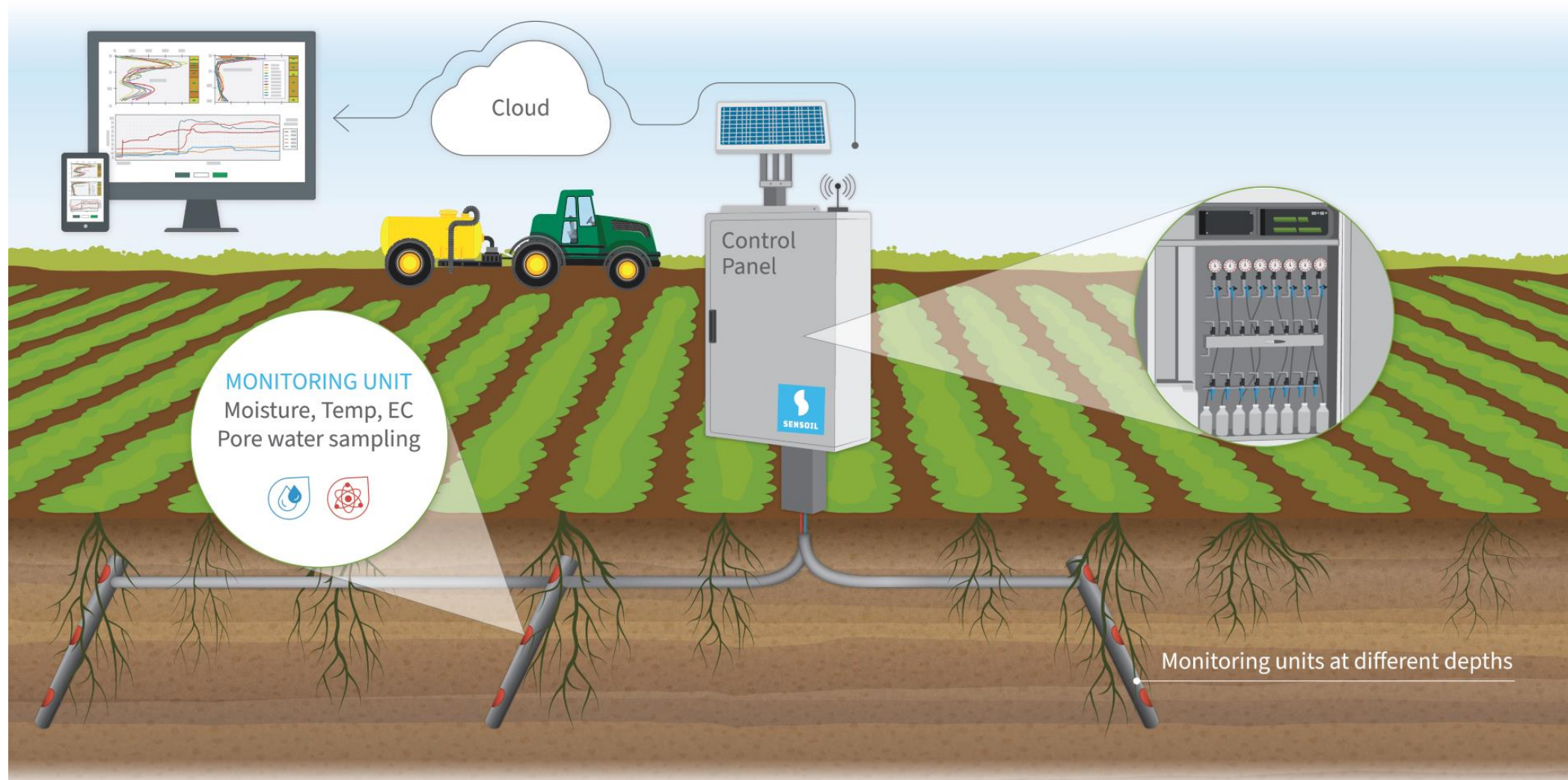
5 Cellular system

B Horizontal linear deployment

Earthen Dam Safety and Reservoir Stability



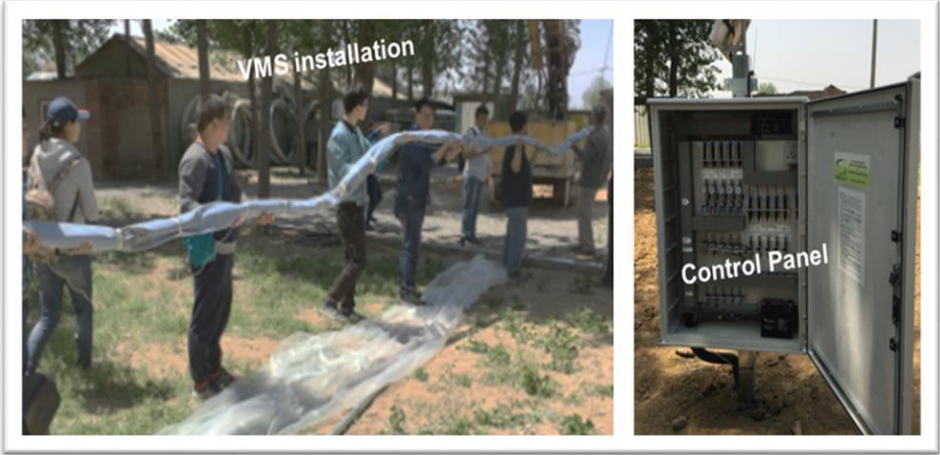
Agricultural Soil Monitoring



In the Field



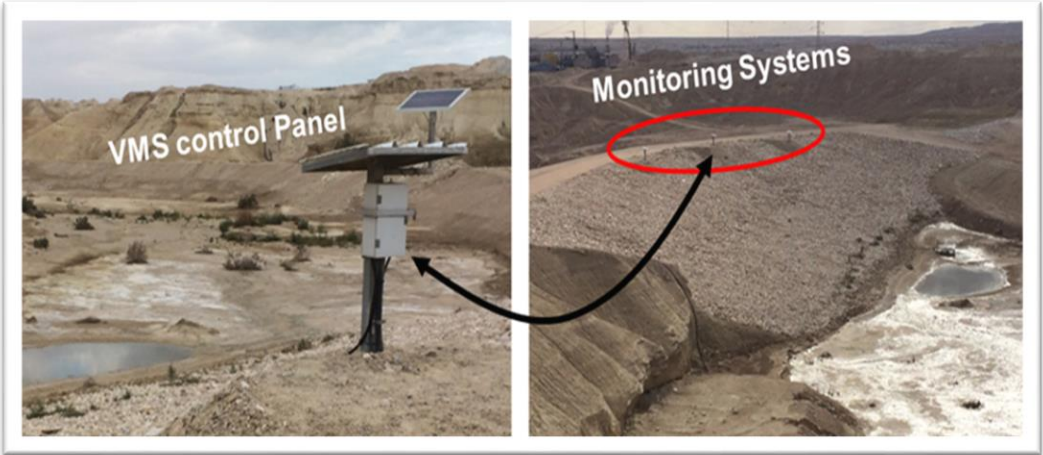
USA



China

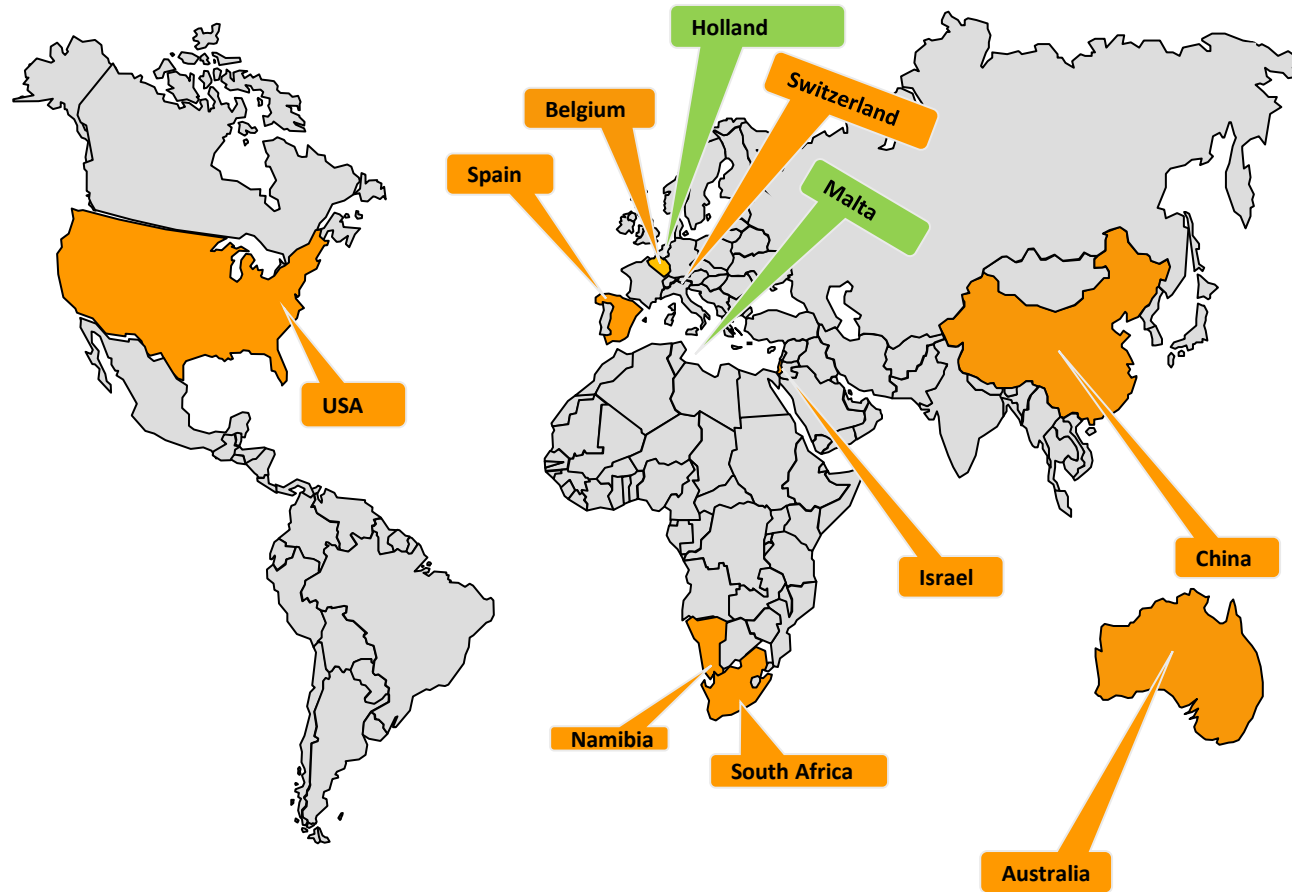


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Belgium

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