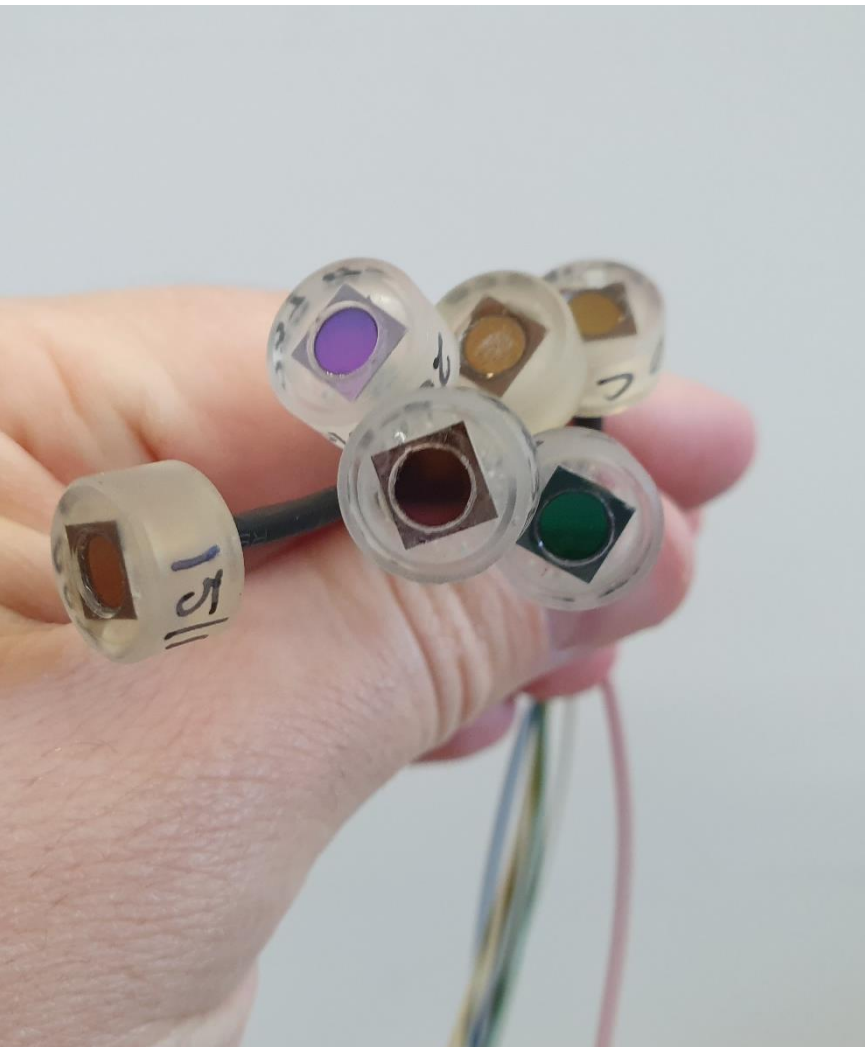


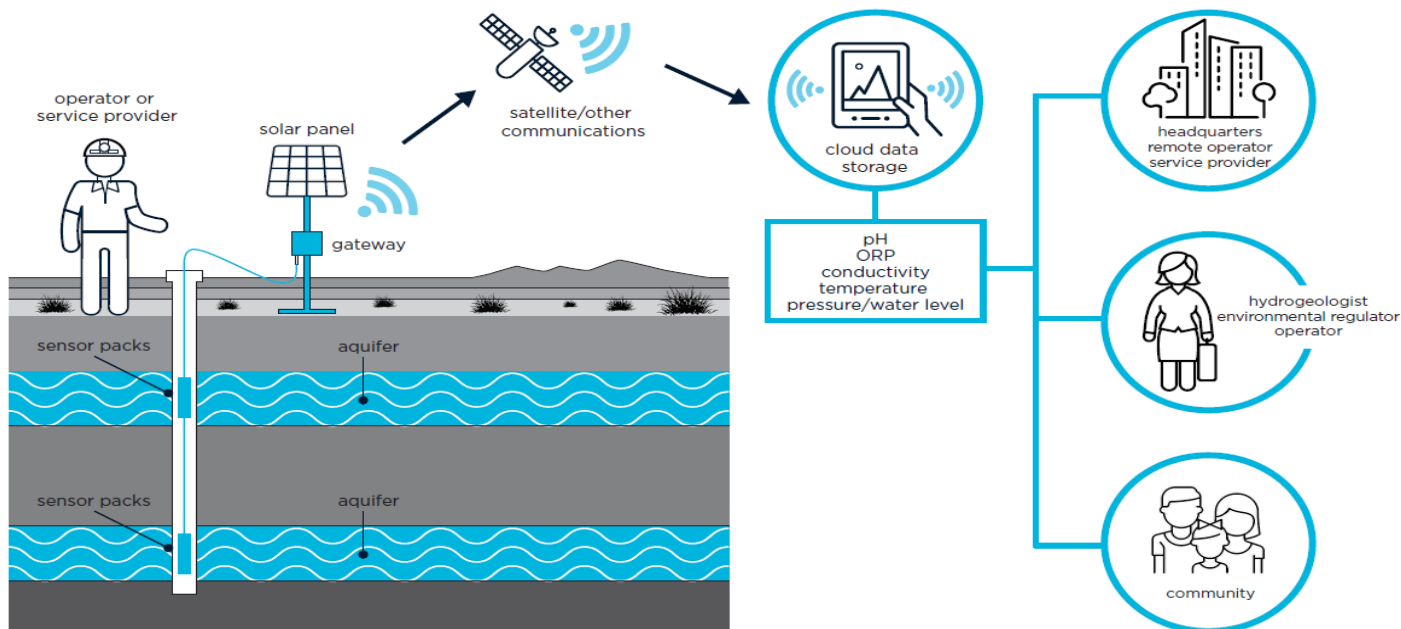


## Interested in the latest innovation in water quality monitoring?

Vesi™ is a new, multi-sensor system for in-situ monitoring of water quality in both urban and remote areas. The system features CSIRO's revolutionary patented sensor technologies that measure pH, redox, conductivity and temperature. It requires no on-going calibration, little maintenance, operates for many months even in harsh chemical conditions, and replaces manual sampling systems that provide limited data. Sensors that measure other physical or chemical parameters, such as water depth, can be added.

Vesi™ fills a gap in the market where stable and reliable water quality data is required for long periods of time (months to years), and continuous detection of contaminants is needed to prevent environmental pollution, risks to health and costly remediation.





CSIRO Vesii™ technology applied to environmental in-situ monitoring of groundwater wells up to 150m in depth. The system can easily be adapted to surface water applications.

## CSIRO Vesii™ key features

- Solid-state reference electrode with anti-interference technology (2 patents / patent applications).
- Solid-state pH electrode with technology for improved calibration stability (3 patents / patent applications).
- Solid-state oxidation-reduction potential (ORP) electrode
- Solid-state 4-electrode conductivity sensor with embedded temperature sensor
- Optional pressure sensor for water level measurements
- Optional 3<sup>rd</sup> party water quality sensors via MODBUS
- Multiple communication options available for the data transfer
- Can be used in remote locations where no power or telecommunication is available
- Safe storage of the data in the cloud system

## Trials with CSIRO Vesii™

CSIRO's Vesii™ technology is not yet available on the market, but a prototype is undergoing a long term trial in a remote area mining operation. Based on the trial results to-date, customer feedback and market analysis, we believe Vesii™ has tremendous potential and wider application, including:

- mineral and mining processing
- water management
- industrial water treatment and chemical processing
- aquaculture

**We are actively seeking partners with water quality monitoring problems to participate in a commercialisation grant and significantly subsidized field trials in 2021. Please contact Dr. Mikko Vepsalainen for further discussion to see if your application is suitable.**

As Australia's national science agency and innovation catalyst, CSIRO is solving the greatest challenges through innovative science and technology. CSIRO. Unlocking a better future for everyone.

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