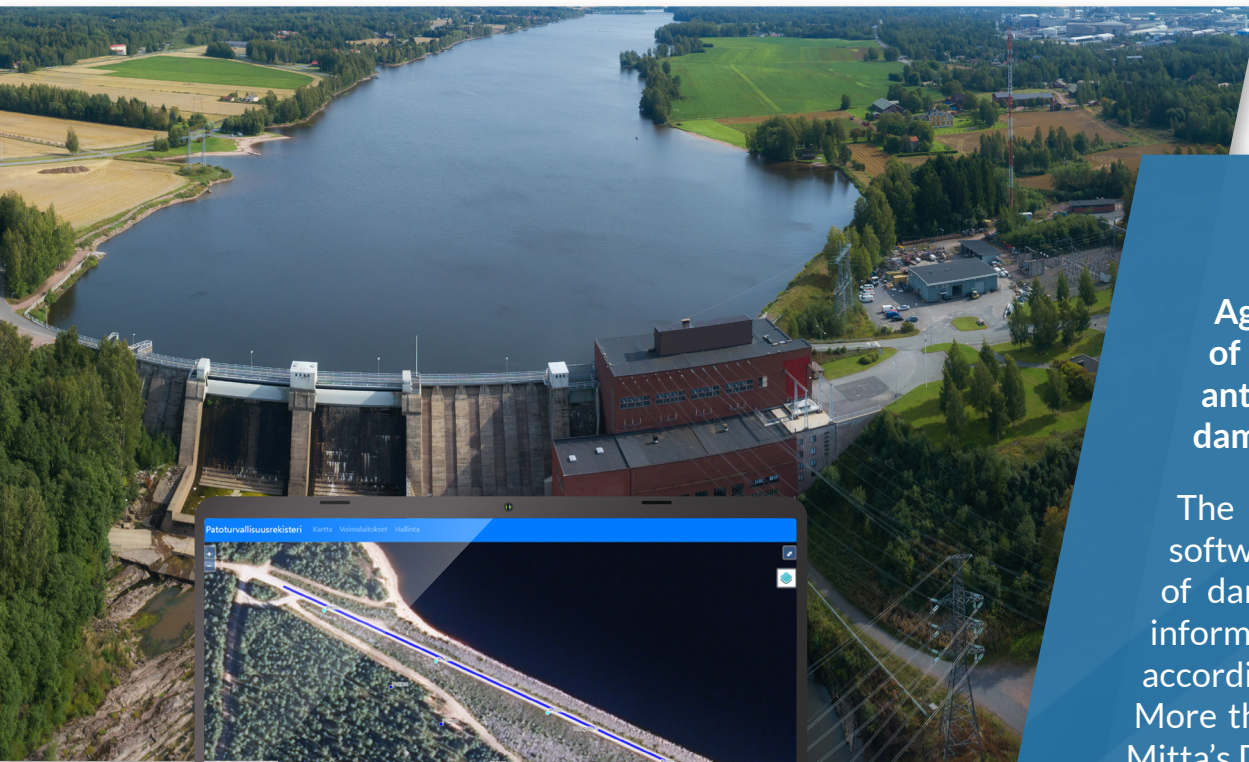


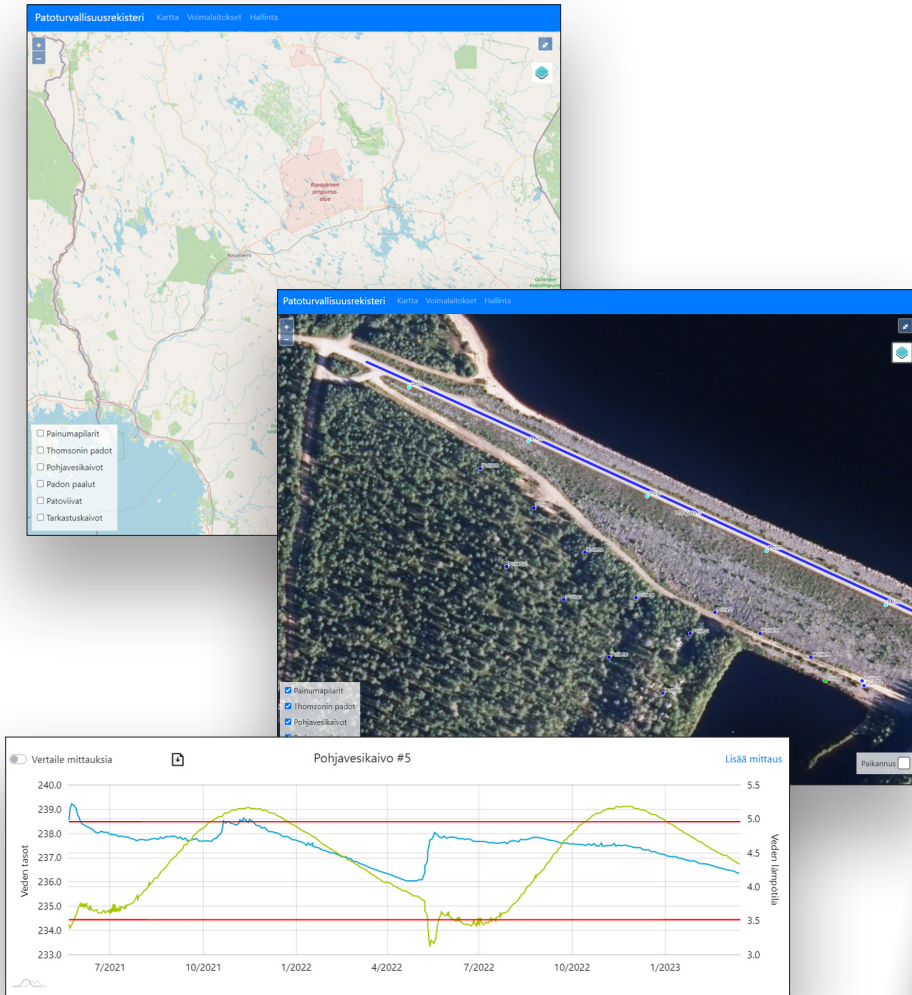
Dam Safety Register and Monitoring System



Aging and climate change represent challenges for the safety of dams. With a good monitoring system, it is possible to anticipate and prevent failure of dams and other threats to dam safety.

The Mitta Dam Safety Register and Monitoring System is a software system developed for the maintenance and analysis of dam safety control, measurement, and design data. General information required by the Dam Safety Act and measurement data according to the dam monitoring program is stored in the system. More than forty hydropower plants in Finland have already joined Mitta's Dam Safety Register and Monitoring System.

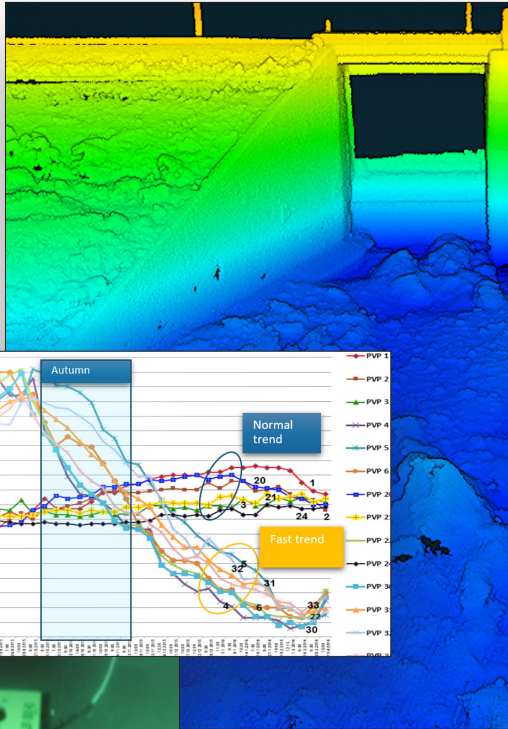




With the system, it is easy to monitor and document dam safety requirements centrally. In addition to an accurate monitoring service, the service is supported by Mitta's long experience and solid dam safety expertise.

The Mitta Dam Safety Monitoring System provides:

- ✓ Map-based user interface
- ✓ Mobile user interface for field conditions
- ✓ Dam safety control points detailed on the map
- ✓ Data graphics with comparison features
- ✓ Documentation and parsing features
- ✓ Continuous monitoring by measurement stations and manual measurement results imported into the system
- ✓ Alarms



Monitoring and maintenance services related to dam safety include:

- ✓ Design and consulting services for dam safety maintenance
- ✓ External expert services for dam safety inspections
- ✓ Measurement and monitoring services
- ✓ Leakage locations of earth dams
- ✓ Earth dam leak repairs
- ✓ Flow modelling with 1D and 2D software
- ✓ Drone/Lidar laser scanning
- ✓ Multi-beam sounding, ROV diving robot for measurements
- ✓ Drone thermal imaging for monitoring dam seeps

With an easy-to-use operating system, an up-to-date picture of the situation is always available meaning that inspections are more efficient and proactive measures can be taken as soon as possible. Additionally, all essential data and documentation required by law is readily to hand.

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