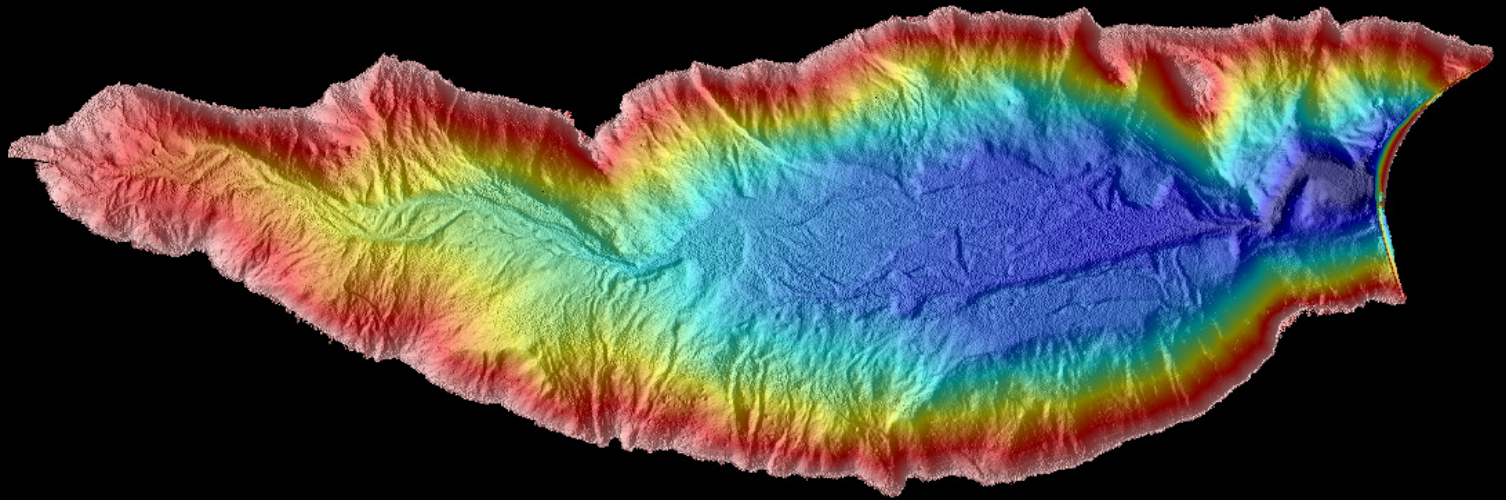




Axpo Hydro Digital – Robotics Services

Underwater structural inspection: flexible, risk-free, and reliable

Fast and safe inspections for informed decisions

The condition of underwater structures is decisive for safe and efficient operation. Conventional inspection methods such as draining areas or using divers are often time-consuming, expensive, and not always practical.

Our robotic technology delivers accurate and reliable information quickly – without the risk and without operational interruptions. Detailed analysis results enable sound planning of maintenance and refurbishment measures. Whether for regular inspections, investigating the causes of performance losses, or preparing renovation projects – our flexible underwater inspection solution ensures reliable and efficient structural monitoring.

We offer a complete service package



Flexible deployment
Without long lead times



Underwater robot or camera inspection
Fast and efficient



High-resolution video and image material
For detailed results



Expert analysis
Expert assessment if required

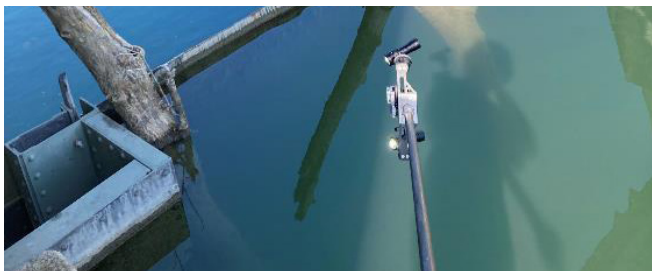
Details on the service package

Our underwater inspection solution enables the detailed examination of structural elements such as surfaces, trash racks, and safety-relevant components. The data recorded is provided in digital form and individually tailored to your requirements. On request, our environment, hydraulic engineering, mechanical engineering, and dam safety experts can provide a professional analysis and evaluation of the results. Thanks to our modular service package, you are free to decide which services you use – entirely according to your needs.



Individual inspection solutions

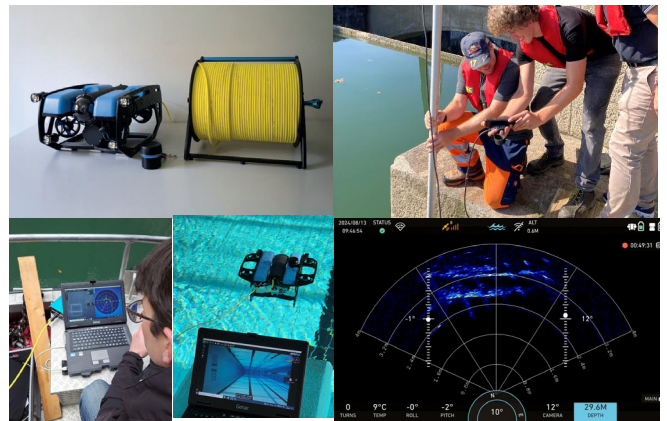
- Conducted by Axpo using underwater robots
- Independent inspection by plants using telescopic camera



User feedback

"The underwater robot has enabled us to inspect operationally relevant parts that would otherwise only be accessible if we emptied Lake Klöntal in a straightforward and cost-efficient manner."

Mathias Ehrismann, Construction Department - Axpo Power



Detailed results

- High-resolution video and image material
- Sonar images for precise structural mapping
- 3D models for digital analysis
- Underwater photogrammetry for precise surveying

"Our short-notice inspection request to determine whether the facility was still operational after commissioning was completed quickly and easily. The inspection revealed that all operationally critical parameters are up to standard. By using the ROV, we were able to avoid complicated and expensive inspections by divers and eliminate the need to empty Lake Roggiasca."

Walter Zala, Deputy Operations Manager - Misox (Mesolcina) Hydropower Group



Want to know more?

Fast access to relevant digital information – flexible and needs-based

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