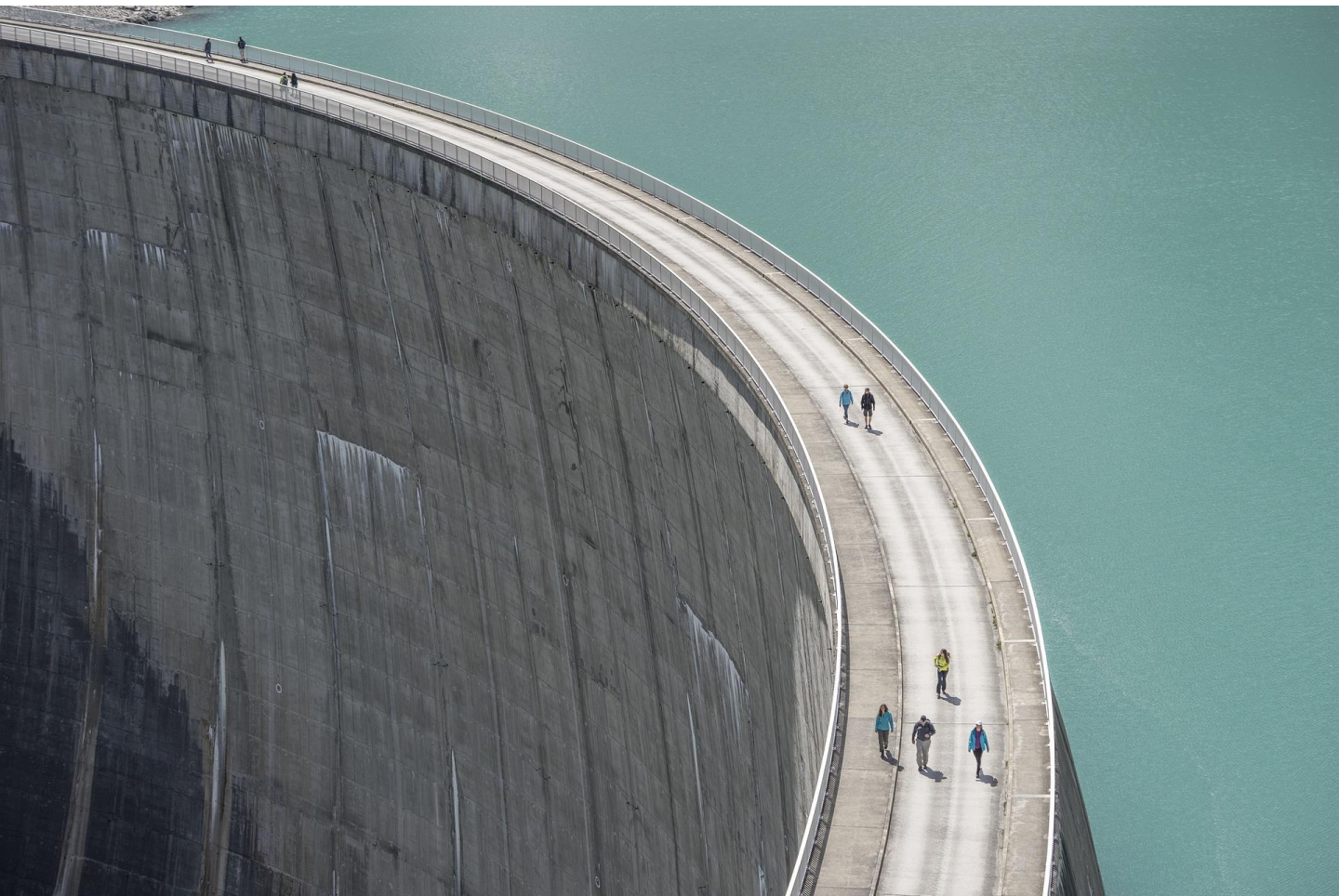


Dams are essential for the storage of large amounts of water and mining tailings. The integrity of these dams is essential for the safety of communities downstream of the reservoirs. Disasters such as the failure of the Brumadinho tailings dam of a Brazilian iron ore mine in Minas Gerais on 25 January 2019 are a reminder of the latent risk of such structures and the huge damages that could result from unsafe operation.

K-UTEC offers a comprehensive monitoring service for dams. This allows early detection of possible vulnerabilities and timely mitigation action. The toolbox consists of a set of non-destructive geophysical methods, such as inclinometers, seismic sensors and drone-based surveillance. The data are processed with proprietary computer models feeding a real-time early alarm system. Safety warnings are communicated instantly to the operators of the structures, enabling them to inform relevant authorities without delay.



K-UTEC has been involved in several projects for dam and other infrastructure monitoring using proprietary multi-parameter sensors in cooperation with renowned European research institutes such as the Geo Research Institute GFZ in Potsdam and the Universities of Weimar and Kiel as well as other certified partners. The technology has proven in practice to be a robust, cost-effective, and adaptable system to any project for risk monitoring and analysis.

If you are interested in a dam safety solution tailor-made for your structure, please get in contact with us. We will be happy to help selecting the right set of monitoring equipment that fits your project. Contact:



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**Certification and qualification:** K-UTEC's team is composed of qualified geophysicists and experienced engineers that guarantee the efficient execution of dam monitoring projects, from preparation of the concept and planning up to the implementation. The specialist department for Geophysics is certified to DIN EN ISO 9001:2008. It is a registered quality geophysics company according to the Professional Association of German Geoscientists (BDG). Officially registered pursuant to Art. 26 Federal Pollution Control Law (BImSchG) for the performance of shock Measurements accredited for vibration detection, module emission protection, reg.# D-PL-14237-01-00

