Hydropower Dams, *Inspection of major hydropower dam*

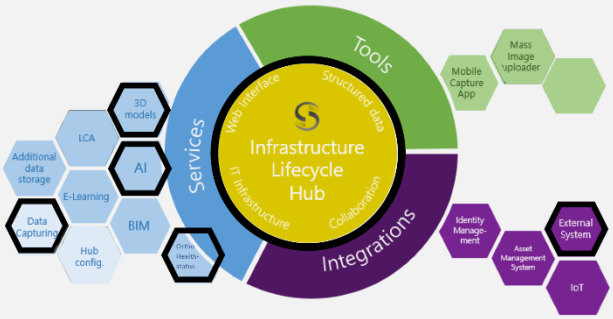
„One of Austria's largest electricity providers that covers around 40% of electricity demands in Austria, 90% thereof is generated from hydropower."

Facts & Figures:
Location: Austria
Year of construction: 1951
Dimensions: Length 375m, Height 120m

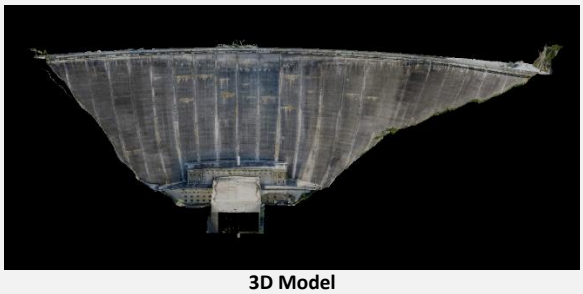
Challenges:
The customer was looking for an efficient and cost-effective solution for inspecting its dams. Concrete dams have a rough surface, with rough edges, heavy efflorescence, and moisture. The focus here is on surface analysis and the creation of data structures for different departments. The aim is to reduce consequential damage through early detection and resource-saving maintenance work to largely reduce the risk "from hairline cracks to cost-intensive damage".

Benefits:
The main benefit was the accurate and efficient inspection process and inspection report achieved through more structured data for decision making.

STRUCINSPECT provided:



- ✓ Data capturing support
- ✓ AI-assisted damage detection
- ✓ 3D modeling using photogrammetry
- ✓ 3D damage mapping
- ✓ Orthophotos



3D Model

Sample picture