Communication & collaboration

- Rapid and effective visualisation of geology in combination with planned and existing structures/projects
- Improved communication between geologists and engineers, clients and other project stakeholders
- Free viewer software and online viewer (web browser)

Risk reduction

- Synthesis of all relevant available information (database structure) as a basis for the modelling process
- Identification of information deficits for planning of additional site investigation
- Comprehensive geological interpretation based on complete data pool

Efficiency

- Processing of large data sets thanks to database structure
- Direct import of model elements to software for geotechnical calculations, hydrogeological modelling etc.
- · Cloud-based working, continuous access to latest state of the geological model
- Integration into BIM design process interaction with other subject-specific models
- Continuous update with links to schedule and cost planning

Dimensions of iC

innovative integrative international

Complex projects and tasks demand integrative solutions based on a broad spectrum of experience.

This conviction has systematically characterised our method of working. We involve participants and affected parties in all

If you wish to know more about us, The partners of iC



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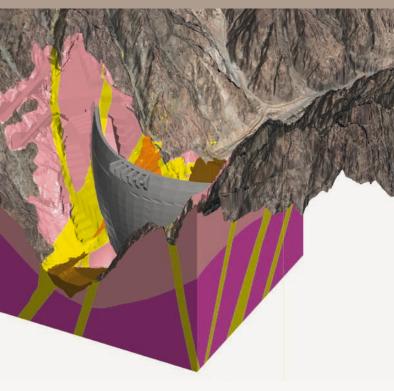


Engineering geology **Geological 3D Modelling**

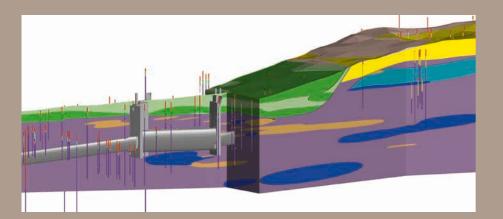
Underground Construction Infrastructure Hydropower & Dams Mining Natural hazards

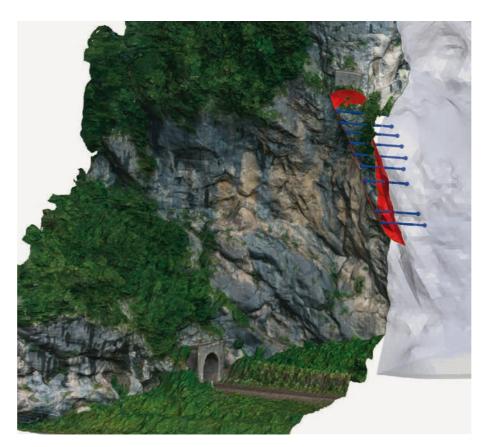
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Methodology & Application



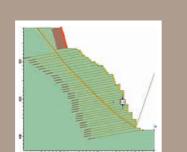


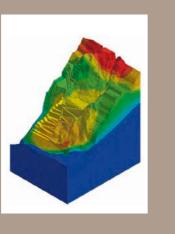
Dimensioning of slope support measures. Based on a highresolution (photogrammetric) terrain model, a complex geometry can be analysed and modelled in 3D. The model serves as the basis for stability assessments and support design.

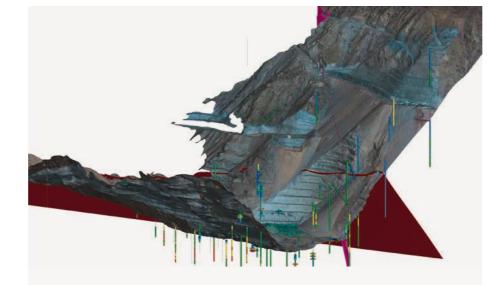


The implementation of geological documentation, site investigation data and geotechnical survey/monitoring during construction allows optimum interpretation of deformations and quick improvement of the design (enhancing value engineering approach).

Typical applications







The combination of high-resolution terrain models with data from field mapping, bore holes and geotechnical tests, along with geological documentation of underground excavations and cut slopes, enables a comprehensive analysis of slope stability.

Tunnels/caverns for metro. railway, roads, water or storage: Detailed 3D modelling of geological features provides a consistent basis for approval procedures, design, consulting during construction and claim management.

