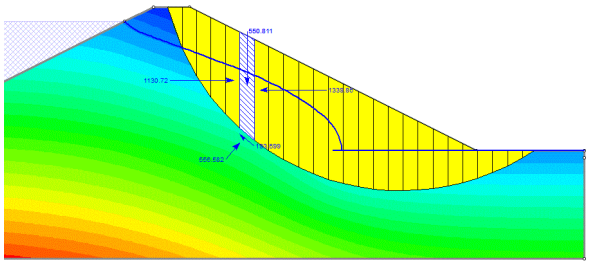
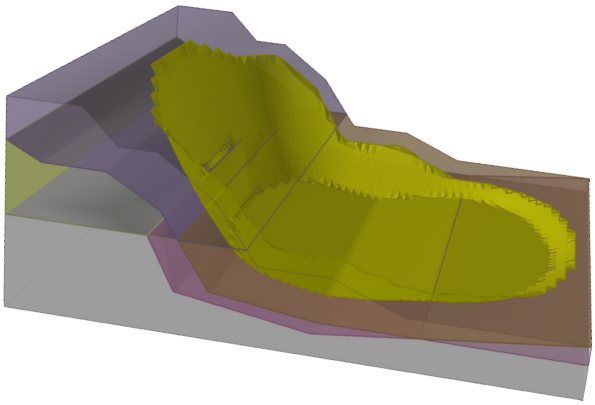
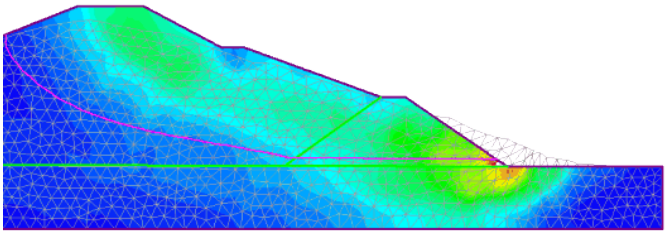
ONE DAY WORKSHOP

2-Dimensional and 3-Dimensional Slope Stability Analysis

The objective of this course is to provide a background on numerical modelling for slope stability analysis using various *Rocscience* software tools (*Slide, RS²*, *RS³*, *Slide³*). Get the most out of the *Rocscience* slope stability suite through a balanced mixture of lectures and hands-on computer analysis using practical examples collected over the years.







Module I: Overview of limit-equilibrium methods for slope stability analysis

- Failure modes of soil and rock slopes
- Limit-equilibrium methods

Module II: Slope stability analysis (2D & 3D)

- Model building (Tips and Pitfalls)
- Material behavior models (anisotropic vs. isotropic material models)
- Interpretation of results

Module III: Selection of analysis methods

- Selection of method for locating minimum factor of safety
- Circular vs. non-circular failure surface analysis
- Failure Surface optimization techniques

Module IV: Slope stability analysis using the shear strength reduction method (2D & 3D)

- Application of FEM to slope stability analysis
- Shear Strength Reduction approach
- Jointed rock slope failure
- Deep seated slope failure
- Blocky rock mass slopes