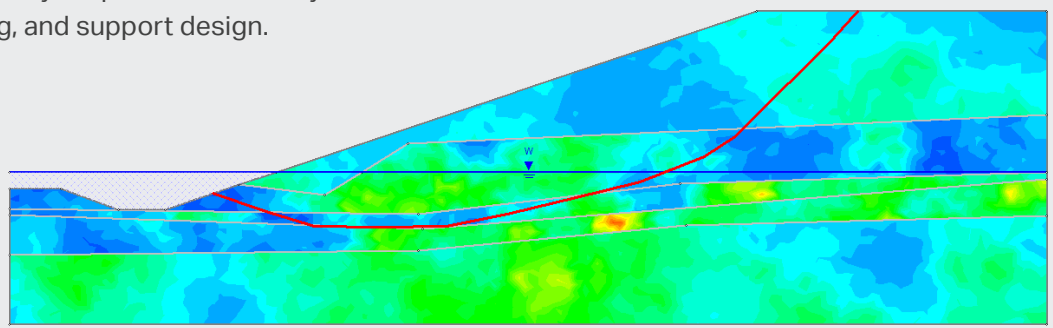


### What is Slide2?

**Slide2** is a powerful, user-friendly, 2D limit equilibrium slope stability analysis program for all types of soil and rock slopes, embankments, earth dams, and retaining walls. *Slide2* includes built-in finite element groundwater seepage analysis, probabilistic analysis, multi-scenario modeling, and support design.

Statistical Results	
Probability of Failure	0.240%
Mean FS	1.420
Deterministic FS	1.592
Distribution Assumed	Lognormal
Correlation Length	20 m (isotropic)



Spatially varying cohesion in several layers of an embankment fill slope. The non-circular slip surface follows the weaker (blue) areas.

### What's New in Slide2

- Improved Scenario Manager enables navigating large, complex models in a single *Slide2* file quickly and easily
- Spatial variability allows for advanced probabilistic analysis, accounting for variability within materials
- New anisotropic material models as developed for *Slide3*
- Newmark seismic analysis can now analyze rigid, coupled, and decoupled methods simultaneously
- 10-15x faster processing of advanced non-circular surface search algorithms with new Surface Altering Optimization

### Favourite Features

- Create and edit complex model geometry with ease
- Full finite element groundwater seepage analysis for steady state or transient conditions
- Probabilistic analysis allows assignment of statistical distributions to any input parameter, as well as advanced correlation of parameters
- Option to define the soil profile first and "cut out" the slope geometry afterwards
- Option to define the soil profile from borehole data
- Over a dozen material strength models for soil and rock (e.g. Anisotropic, Generalized Hoek-Brown, SHANSEP)
- Numerous support type options (e.g. tieback, soil nails, geotextiles, piles) including integration with *RSPile*
- Flexible geometry import options from various file formats, including .dxf, *RS2*, *Slide3*, and many more

### Plans & Pricing

- Single (Personal) License:** Locked to one computer.
  - Ownership (Perpetual): **USD \$2995**  
Purchased outright
  - Lease: **USD \$1495/year**  
Leased annually. Incl. maintenance & upgrades
- Multi (Flexible) License:** Installed on any number of machines. The license file sits on the server.
  - Ownership (Perpetual): **USD \$4495**  
Purchased outright
  - Lease: **USD \$2245/year**  
Leased annually. Incl. maintenance & upgrades

### Maintenance Plan

To get the most out of your Ownership License of *Slide2* we recommend the Rocscience Maintenance Plan, purchased annually at 15% of the license cost.

With Maintenance, you get free upgrades to new product versions. You'll never invest in a tool without access to the latest software.

You also get unlimited access to high-quality, timely support from the technical experts at Rocscience.

Contact us at [software@rocscience.com](mailto:software@rocscience.com)

## Analysis Methods

- Bishop simplified
- Corps of Engineers #1
- Corps of Engineers #2
- GLE/Morgenstern-Price
- Janbu corrected
- Janbu simplified
- Lowe-Karafiath
- Ordinary/Fellenius
- Sarma vertical & non-vertical slice
- Spencer

## Strength Models

- Anisotropic Function
- Anisotropic Linear
- Anisotropic Strength
- Barton-Bandis
- Discrete Function
- Drained-Undrained
- Generalized Anisotropic
- Generalized Hoek-Brown
- Hoek-Brown
- Hyperbolic
- Infinite Strength
- Mohr-Coulomb
- No Strength (i.e. water)
- Power Curve
- SHANSEP
- Shear / Normal Function
- Snowden Modified Anisotropic Linear
- Tension Cutoff
- Undrained ( $\Phi = 0$ )
- Unsaturated Shear Strength
- Vertical Stress Ratio

## Support

- Active vs. passive anchors
- Back analysis (compute required support force for safety factor)
- Easily define/edit patterns
- End-anchored bolts
- Geotextiles
- Grouted tiebacks
- Piles and micropiles
- *RSPile* integration
- Soil nails
- User-defined support model

## Loading

- Distributed loads
- Line loads
- Seismic loads

## Finite Element Groundwater Seepage Analysis

- Constant or time dependent boundary conditions
- Discharge sections
- Mapped meshing
- Multi-stage transient groundwater seepage
- One-click automatic meshing
- Saturated/unsaturated
- Show mesh quality
- Steady state seepage
- View groundwater and slope stability results simultaneously

## Pore Pressure Definition

- Calculate excess pore pressure using B-bar method
- Choose grid interpolation method
- Finite element groundwater seepage analysis
- Phreatic surfaces
- Piezometric lines
- Pore pressure grids – total head, pressure head, pore pressure
- Rapid drawdown analysis
- Ru coefficients

## Rapid Drawdown Methods

- Army Corps Engineering 2-stage
- Duncan, Wright, Wong 3-stage
- Effective stress using B-bar
- Lowe and Karafiath

## Modeling

- Borehole entry
- CAD drawing tools
- .dxf import / export
- Geometry from soil profile
- Multi-scenario modeling
- One-click material assignment
- Weak layer boundary

## Seismic Options

- Compute  $K_c$  critical acceleration
- Newmark displacement (rigid, coupled, de-coupled)
- Pseudo-static analysis
- Staged pseudo-static analysis

## Probabilistic Analysis

- Advanced correlation between input parameters
- Critical probabilistic surface
- Spatial variability analysis
- Distributions – Normal, Uniform, Triangular, Beta, Exponential, Lognormal, Gamma
- Equate material properties
- Histogram, cumulative and scatter plots
- Monte Carlo or Latin Hypercube simulation
- Probability of failure / reliability index
- Sensitivity analysis
- Use any input parameters as random variables

## Search Methods

- Auto-refine search
- Block search
- Cuckoo search
- Grid search
- Non-circular surface optimization
- Particle swarm
- Path search
- Simulated annealing
- Slope search

## Data Interpretation

- Annotation & dimensioning tool kit
- Contour groundwater results – total head, pore pressure, velocity, gradient
- Export image files
- Export to Excel
- Filter slip surfaces
- Interactive data tips
- Plot factor of safety along slope
- Plot results directly on slip surface
- Plot safety factor vs. time for transient analysis
- Plot slice data
- Plot slip surface data
- Print models at scale
- Support force diagrams
- Property viewer - contour material properties

## Slip Surface Options

- Circular surfaces
- Composite surfaces
- Non-circular / planar surfaces
- Tension cracks