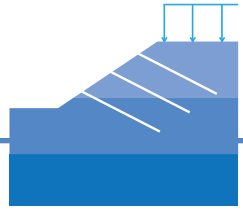


GEOSTAB



A robust, proven calculation tool, according to Eurocodes. More than 200 operating licences in France and abroad.

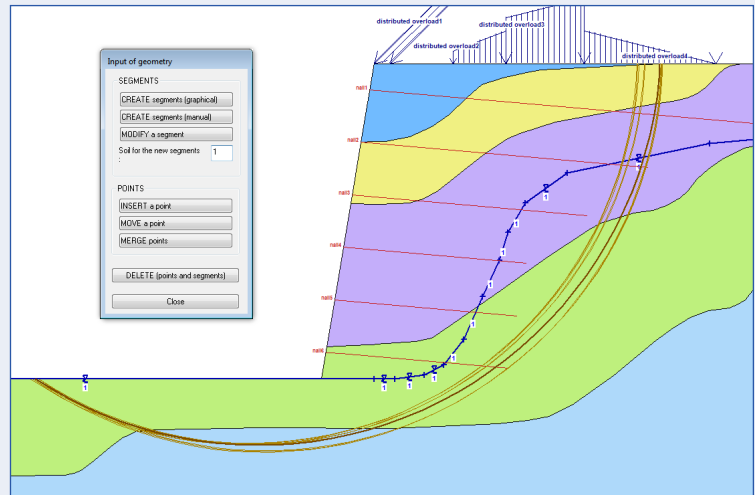
Slope stability analysis
Soil reinforcement and nailed walls design

A VARIETY OF ANALYSIS

- Natural and man-made slopes
- Cuttings, embankments and reinforced soils
- Retaining walls
- Nailed or anchored slopes with an automatic optimisation of nails and anchor lengths

GEOSTAB CAN TACKLE

- Complex problems
- Different types of reinforcements: pins, nails, anchors, geotextile and geogrid layers
- Any type of slide surfaces: circles, plans, spirals, combined surfaces
- Different loading conditions: spread, punctual, inclined; uniform or not
- Seismic loads: pseudo – static method



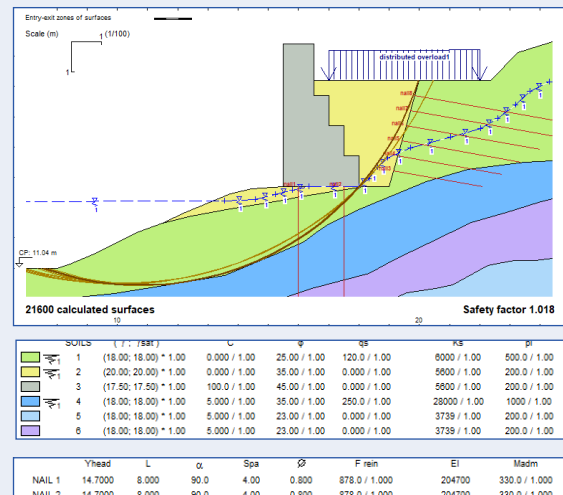
AN INTUITIVE AND USER-FRIENDLY INTERFACE

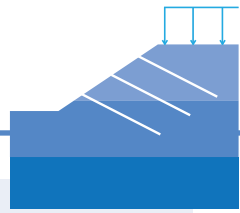
- Performant modelling tools
- Easy management of phases and cases
- Option to import **GEOMUR** files (external stability), **Autocad plans** or **images**



RESULT EXTRACTION FUNCTION

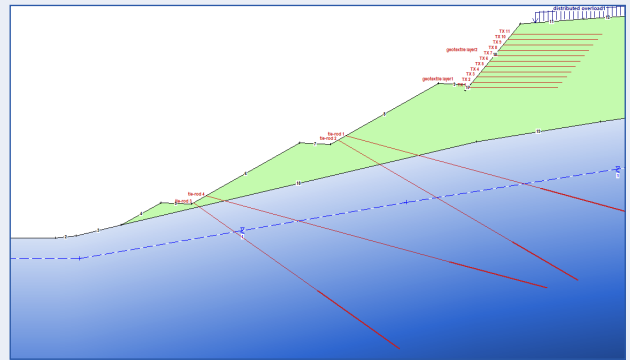
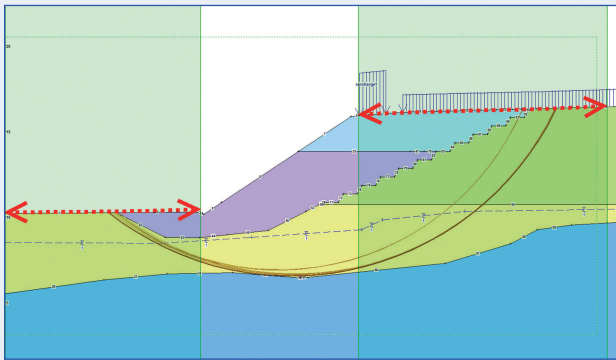
- Structured report that can directly be integrated into a PDF file
- Recall of all the data input





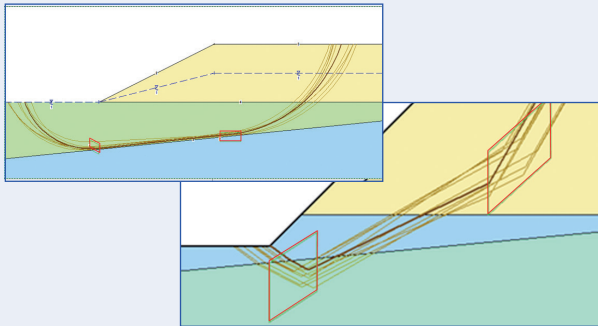
AN INTUITIVE AND USER-FRIENDLY INTERFACE

- ▶ **Ground profile** input by mouse click, or by coordinate points definition

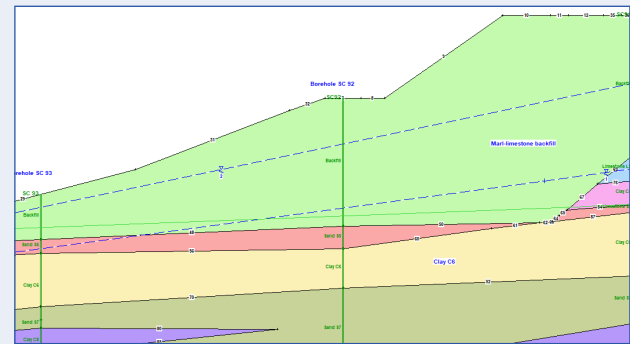


- ▶ **Automatic search** of slip surfaces by defining **entry and exit intervals** (without center grid)

- ▶ Consideration of **anisotropy** ($c-\phi$ depending on direction) or **variation** of $c-\phi$ depending on depth



- ▶ Automatic search of **non-circular slip surfaces** by **box definition**



- ▶ Input of **borehole profiles** and addition of **data labels**

ADVANCED CALCULATION FEATURES

- ▶ Predefined **partial security factors** in terms of reference documents (Eurocode 7: Approach 2 and 3, Clouterre)
- ▶ Calculation of inclusion **efforts**, in order to calculate nailed wall surfaces (**GEOSPAR**)
- ▶ Calculation of inclusions in **traction, compression, shear and flexion state**
- ▶ **Automatic optimisation** of nails length
- ▶ **Automatic** verification of stability in the anchored block, by **Kranz Method (Eurocode NF P 94 - 282)** with one or more anchor or nail layers

VARIOUS METHODS

- ▶ Modified **BISHOP** for circular surfaces
- ▶ **CARTER** for non-circular surfaces
- ▶ **Perturbations method** (circular, non-circular, logarithmic spiral surfaces)

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