

Trimble Novapoint

Geosuite

The complete solution for geotechnical engineers

Trimble® Novapoint Geosuite Software enables you to plan a geotechnical investigation, design and construct 3D models, and automate geotechnical calculations for maximum productivity. Easily work with multiple teams in a BIM environment using Trimble Quadri Software, an advanced collaboration platform.

With Geosuite you can view and revise data from investigations and carry out calculations to understand soil properties. You can easily read and edit data from soundings and sampling, manage and verify boreholes, create plan drawings, diagrams, 3D models, cross sections and profiles for your projects—all in one software. Easily perform calculations for any critical geotechnical aspect* and clearly share and present the results in a way that everyone can understand.

*Stability, settlements, pile group, excavation and soil data interpretation.

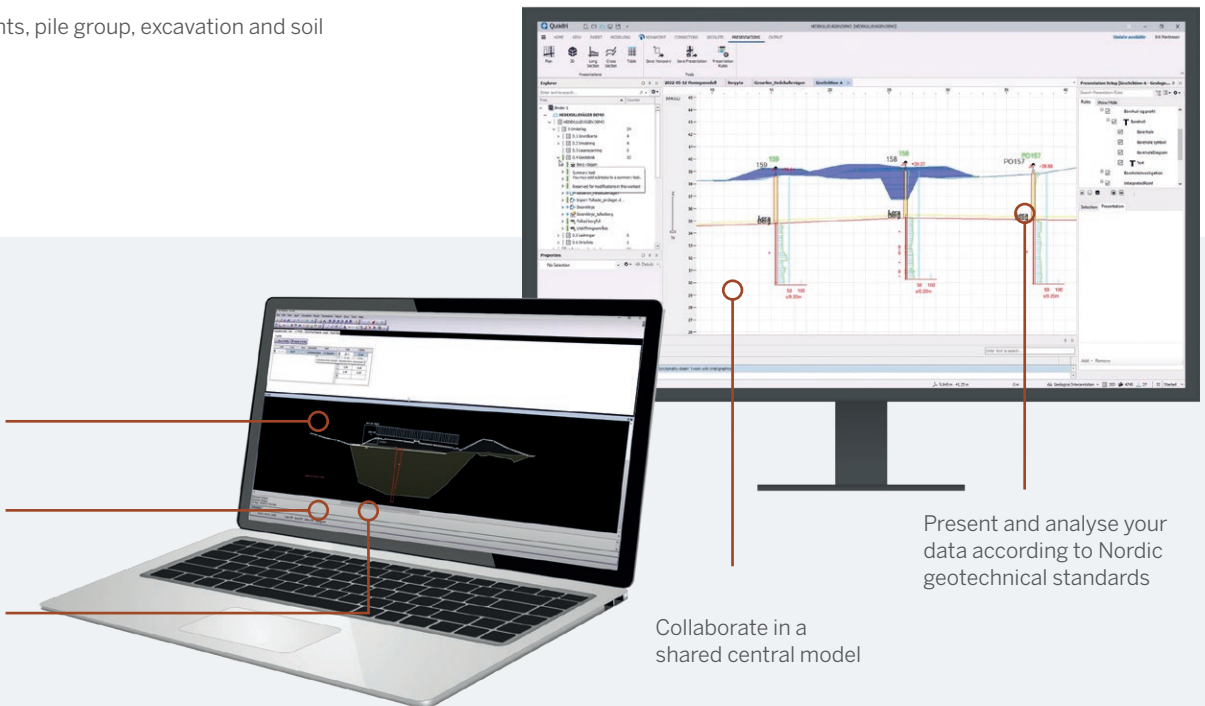
A shared model for all

You can now take full control of all your geotechnical projects with Geosuite and obtain a holistic perspective of all your data. Move your geotechnic operations into an environment where data can be shared with teams all over the world through a cloud- based collaboration solution. Now planners, designers, contractors, and project owners can have geotechnical data at their fingertips with Quadri.

Create drawings and 3D models for soil/rock

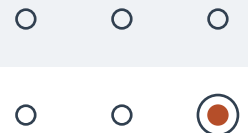
Easily perform calculations in one place

Work offline in the field for up to 30 days



Collaborate in a shared central model

Present and analyse your data according to Nordic geotechnical standards



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Available modules

Archive

Archive is the base module for organising your projects, starting calculations and utilising the other Geosuite modules. Export and import data to and from other databases and keep track of your project—while giving everyone a perfect overview.

- View projects on topographic and other background maps
- Create background maps and drilling plans via export (*.kml)
- Databases supported include private infrastructure consultancies and public agencies such as municipalities

Presentation

Plan an investigation and easily create drawings and 3D models from all your soil/rock data, then present the results according to the Nordic standards (SGF/NGF). Includes a Kalc Cement (KC) function that generates design and quantity reports and more. With tight integration with Trimble Novapoint and Quadri you gain tools for BIM and collaborative reporting.

Settlement

Using up to five soil models (Norwegian and Swedish) you can perform settlement calculations such as time modeling of pore pressure and stress generation from loads, including modeling over time. Calculation methods include 1D FEM and pseudo 2D/3D using a set of 1D points.

Stability

Calculate slope stability using cross sections, 2D slope analysis, point loads and distributed loads, groundwater and pore water pressure, drained or undrained and sensitivity analysis. Present results either graphically or in comprehensive reports.

Pile group

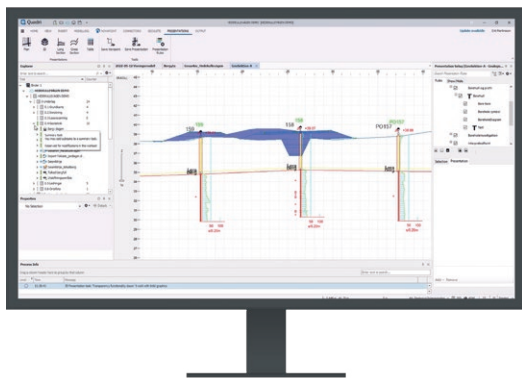
Design and perform analysis of 3D pile groups with extensive modeling options for one or more piles, loads and soil profiles. Soil can be modeled by lateral and axial load displacement data (p-y, t-z, q-z).

Supported excavation

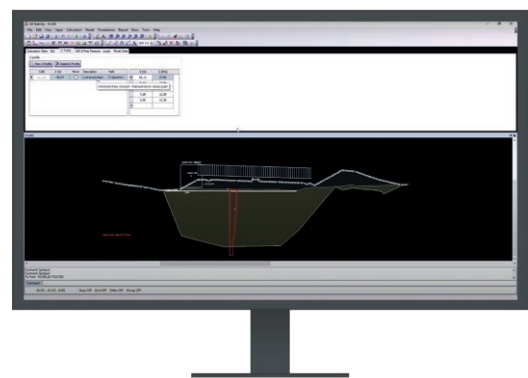
Use clear graphs to analyse excavation of sheet piles, and the results for each calculation step. Build a database for sheet piles and divide the excavation process into phases. Calculation methods include 1D FEM and up to five soil models (Norwegian and Swedish).

Soil data interpretation

Interpret soil properties graphically for investigations from CPT and analyse the data using statistical methods. Also investigate the soil stress history by displaying in-situ stresses, oedometer interpretations, OCR and much more. Easily export graphs with soil properties or copy data into Microsoft Excel.



Present and analyse geotechnical data in a shared model



Perform slope analysis

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