

KorFin® Ground

5D Platform for BIM in geotechnical engineering

KorFin® is a 5D platform with 3D real-time planning for road, rail, line and cable infrastructure. The platform provides a real-time environment for efficient generation of dynamic, spatial overall models for as-built data, integrated planning, visualization and coordination in applications with high model accuracy. KorFin® integrates GIS, construction process management (4D) and model-based cost calculation (5D).

INTEGRATION OF EXPLORATION DATA

Integrate geospatial data and generate georeferenced geotechnical models. Due to automated conversion, your data is compatible with all common geotechnical programs. KorFin® is based on the data model of AK 2.14 of the DGGT "Digitization of Geotechnics".

CONSTRUCTION OF FOUNDATION LAYER MODELS

Generate construction substrate layer models automatically from exploration data. You can tailor DTMs from KorFin® Model or from the surveyor to your requirements and use them as the basis for modeling. Use influence areas from planning or from geospatial data to delineate the foundation layers. The models generated are fully parametric and always reproducible. You can update the models with minimal effort.

CONSTRUCTION OF HOMOGENOUS DOMAIN MODELS

Generate any number of layer models for homogenous areas such as earthworks or drilling operations automatically from your exploration data. You can transfer the assignments directly from your excavation software or enter them yourself in table form.

MODEL-BASED LONGITUDINAL AND CROSS SECTIONS

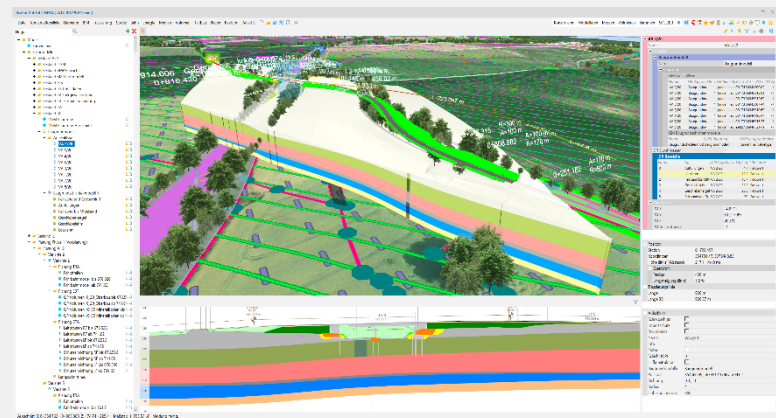
Derive longitudinal and cross sections of the foundation layers and homogenous areas directly from the model using your own or imported axes. The exploration data and the complete overall model are integrated into the generated sections. Export the sections via DXF and process them further in your CAD software.

AUTOMATED ATTRIBUTION, DATA EXCHANGE

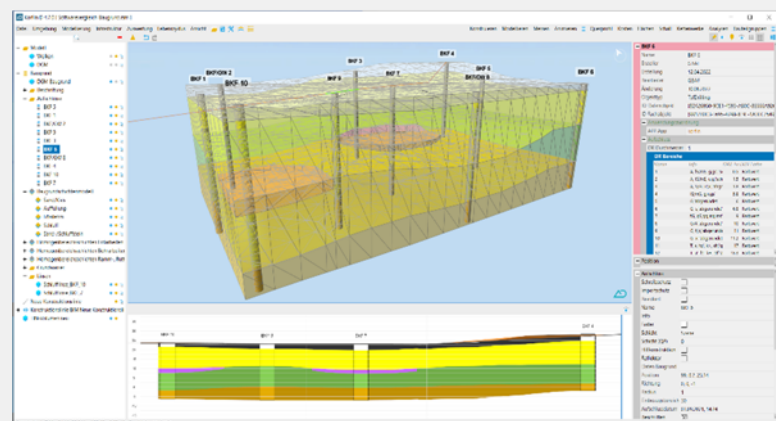
Attribute explorations and layer models automatically via a CSV interface according to the requirements of your client. Support for import and export in IFC allows you to transfer your attributed soil model to the clients CDE.



Evaluation of the substrate layer model in the KorFin® overall model.



Real-time routing with automatic derivation of a calculated longitudinal and cross section from the substrate layer model.



Construction of the specialist model of subsoil from the evaluation data set of the BAW and the working group 2.14 of the DGGT "Digitization of Geotechnics".