

KorFin® Rail

5D Platform for finding railroad line variants

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).

With KorFin® Rail you process different use cases in parallel and on one platform.

MANAGEMENT OF DYNAMIC AS-BUILT MODELS INCLUDING GEOSPATIAL DATA

In your as-built model, every project size is realized for DTM, DOP/TM and with complete data on environment, spatial planning, and other topics. When your as-built data changes, your overall model and all dependent calculations such as your variant ranking are automatically updated.

COMPLEX VARIANT ANALYSIS

Route an unlimited number of active variants, in 3D and real time, in a common overall model in compliance with guidelines. Embankments, cuts, tunnels, retaining walls, areas, volumes, quantities, costs and environmental assessments as well as travel times are estimated or calculated in real time.

VARIANT ANALYSIS IN THE VARIANT NETWORK

Define a network of variants from your routing using hinge points. Leave the combinatorics, the analysis of the environmental and spatial impacts and the objective selection of the preferred variants to KorFin®, which uses your criteria.

INTEGRATED ANALYSIS FOR ENVIRONMENTAL AND SPATIAL PLANNING

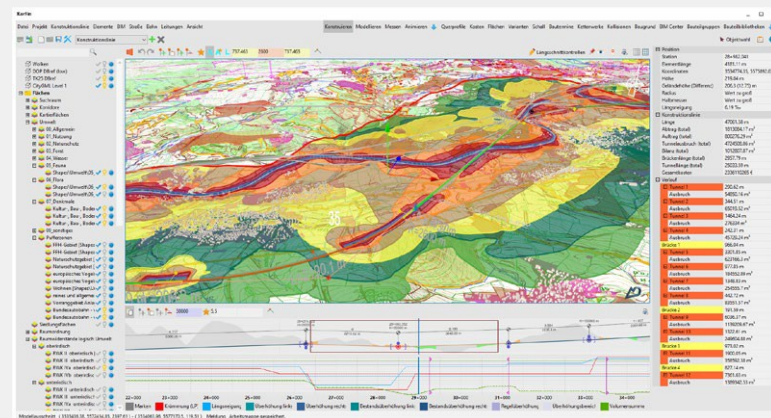
For all variants and variant combinations, as well as corridors of consideration, you can calculate the environmental and spatial impacts with or without dynamic spatial resistances at any time with only a single work step.

INTEGRATED SOUND IMMISSION ANALYSIS

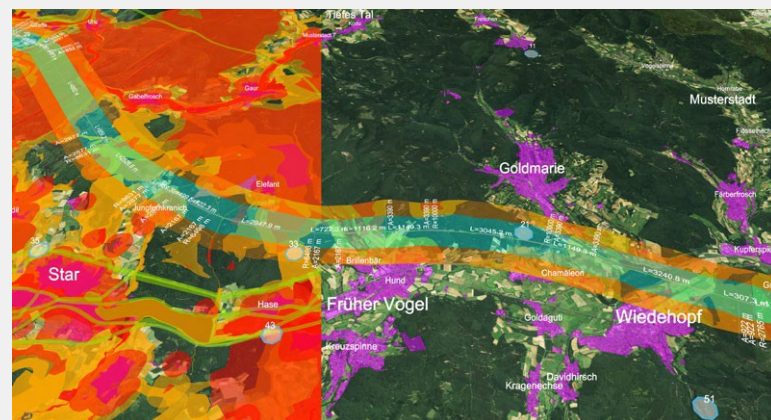
Noise immissions are calculated directly in the overall model with train assignments and according to valid regulations. The analysis of the affectedness is done precisely by area and specifically per resident.

VISUALIZATION

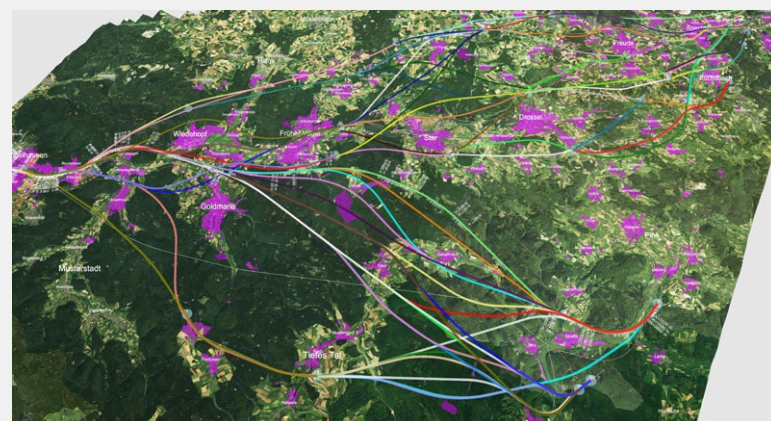
Your overall model is already generated with high-quality textures. That means it can be used in its entirety for the visualization, including specialist data and analysis results from all generated variants.



KorFin® routing based on as-built model DTM/TM, buildings, vegetation, geospatial data and noise analysis



KorFin® calculation of dynamic spatial resistances and dynamic GIS analysis



KorFin® variant network and automatic determination of objective preferred variants for people, environment, and costs