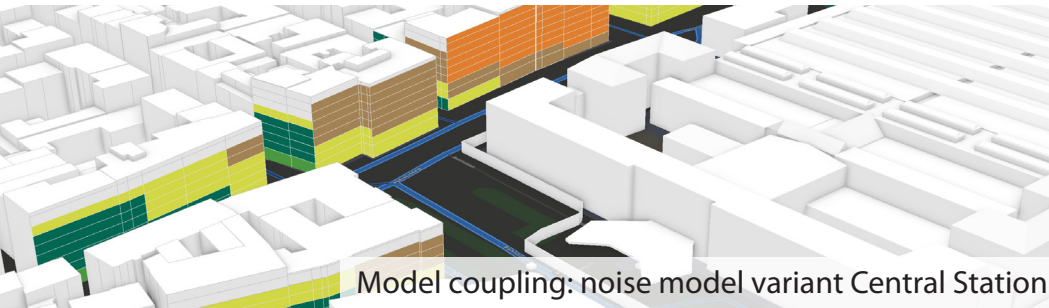
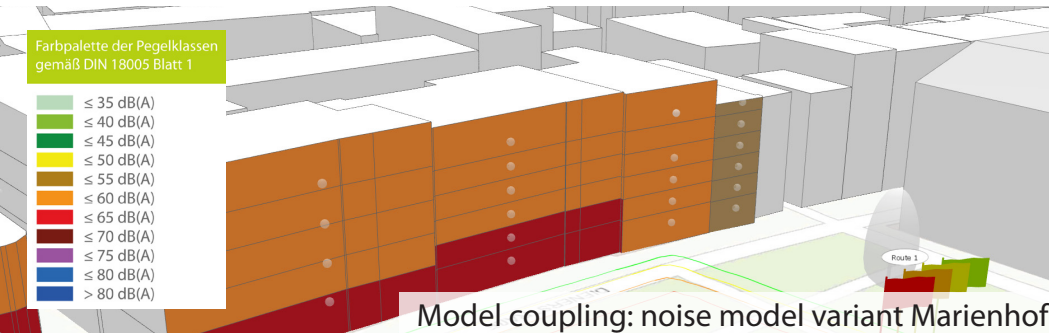


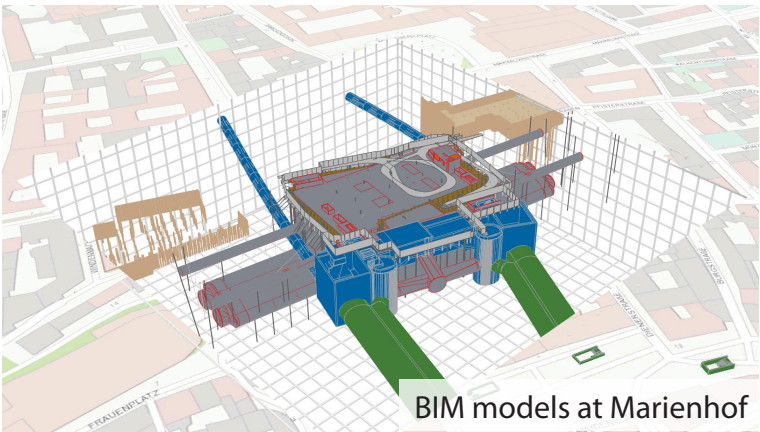
2. S-Bahn core route: 3D-GIS and BIM, Development of a GIS Database

Development of an ArcGIS Enterprise GIS database for the centralization of spatial data and as a multidisciplinary information platform for the 2nd S-Bahn core route and immediate surroundings in Munich

Client	DB Netz AG (I.NG-S-M)
Project Execution	PSU Prof. Schaller UmweltConsult GmbH Esri Deutschland Group GmbH
Project Partner	Ingenieurgesellschaft 2SBSS A4D-BPR-ILF-SWECO-SSF-IBV
Project Period	since 2018
Services	<ul style="list-style-type: none">▪ BIM-GIS Integration▪ 3D-GIS data preparation and integration▪ 3D-GIS analysis and modeling▪ 3D-visualization and model coupling▪ Data conversion



Core route in 3D, with main axis



BIM models at Marienhof



Geology profiles

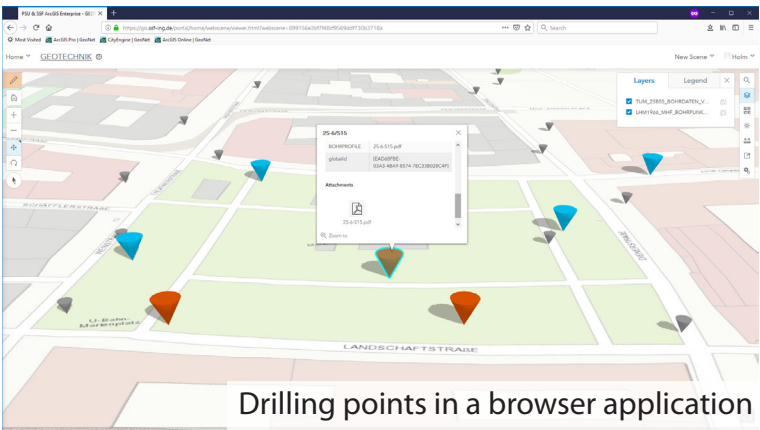
The aim of this currently ongoing project is to create a GIS database that centrally bundles all spatial data (inventory, current planning statuses and real-time data) and makes it available across disciplines via a rights system for in-house and external users in the browser or via specialist applications.

For this purpose, various geographic data, tabular data, reports and surveys with spatial reference as well as last but not least BIM models for the entire route are converted, homogenized and linked using GIS and the ETL tool FME.

This data is available on an ArcGIS Enterprise Server for querying, editing, supplementing or as a basis for further data collection with software solutions such as the Esri Collector App.

Current work packages:

- Creation of an environment model in 2D and 3D
- Conversion and implementation of BIM building objects
- underground infrastructure georeferencing
- Georeferencing of inventory data
- Web maps
- Model couplings with noise models
- Implementation of geology evaluations
- Traffic concept with live data



Drilling points in a browser application