

Project Reference for BIM Services

Project Name: **BIM Schiers visibility check**



Client

Rhaetian Railway RhB
Bahnhofstrasse 25
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Reference Person

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Contract Amount

CHF 12,000

Contract Period

November - December 2022

Key Personnel

Project manager:

David Holdener

Modelling:

Florian Wörz

Visualisation:

Jan Sigris

Project Description

New signals were planned and signals repositioned on the Grüşch-Schiers line of the RhB. An important analysis here is the visibility check for the locomotive crew: Due to obstacles, from what distance can the signal be recognised?

As a solution, existing 3D measurement data from ARGE FahrwegDiagnose was used in the form of point clouds. The new signals were placed and visualised in these clouds based on the RhB's concepts and standards.

From the prepared scene, supplemented with context data of the surroundings from swisstopo, videos of the track journey were rendered from the perspective of the locomotive crew. Thanks to this procedure, a very detailed decision can be made as to whether the newly planned signals can be recognised in good time at the respective speed. Obstacles such as vegetation, buildings or the railway infrastructure were recognised in good time and new variants can be assessed.

Technical Data

Project perimeter over 3.6 km

Visualisation of 19 newly planned signals

Special Features

- Visibility check from the perspective of locomotive personnel
- Combination of different data sources
- Positioning of signals according to standards

Our Solutions

- Track diagnostics: Track and rail corridor visualisation measurement service

Partner Company

ARGE FahrwegDiagnose as supplier of the basic data

