

## Project Reference

**BIM modelling of an SBB railway station facility (Part of the NKM32 framework agreement)**

**BIM model with complete subsurface documentation**



**Client**  
SBB AG  
Hilfikerstrasse 3  
CH-3000 Bern 65

**Location**  
Sion, Switzerland

**Execution**  
2025

### **Key Personnel**

Project Manager

Head of Planning

Planning Coordinator / BIM Manager

Scheduling / Work Preparation

Execution

BIM Coordination

Simon Matter

Simon Matter

Sandra Furrer

Marwin Voss

Brajtner Buqaj

Jan Sigrist

### **Project Description**

Within just two weeks, our Digital Rail Services team delivered a comprehensive BIM model for SBB, setting new standards in digital asset capture.

Key features of this project:

- **Complete subsurface documentation:**

Not only the visible infrastructure, but also all structures and layers beneath the track bed were captured – including detailed properties of bore cores and geotechnical data.

- **Intelligent data integration:**

All information from the Fixed Assets Database (DfA) is directly linked to the 3D geometry. Each object carries its full set of attributes – from mast numbers and construction types to coordinates.

- **Standards & structure:**

The model is based on IFC 4.3 and consistently structured according to SBB's discipline data catalogue, ensuring seamless integration and interoperability.

This type of digital twin enables well-founded planning and implementation of future projects and can be integrated into an asset management system to support improved maintenance planning.

