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A13 AS Rothenbrunnen-AS Vial (GR): Rehabilitation of Isla Bella and Plazzas tunnels and construction of new safety tunnel

Bauherr
Federal Roads Office FEDRO

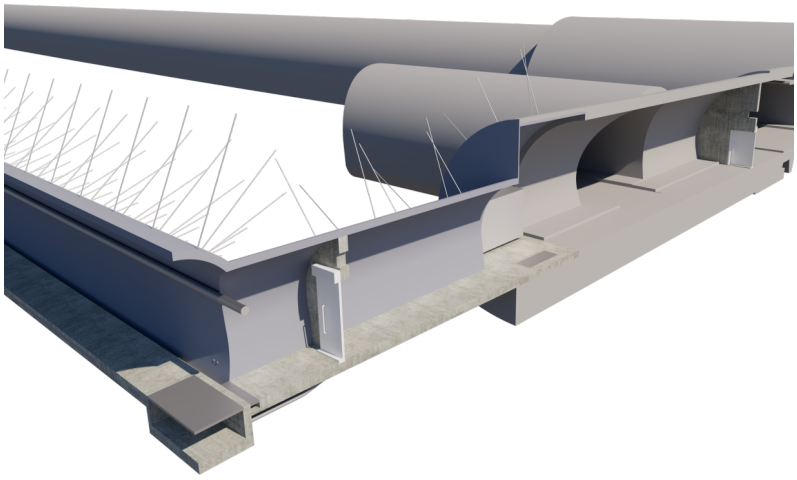
Projektierung
IM Maggia Engineering Ltd in engineering consortium

Zeitraum
2014–2026

Baukosten
CHF 90 Mio.

Beschreibung
The safety tunnel (SiSto) "Isla Bella" is being built for the tunnel of the same name along the A13 motorway. The project provides for the planning (construction and electromechanics) of a tunnel. Later, this is to be converted into a second, complete tube (road tunnel). Future infrastructure development will be given the greatest attention during the planning (for the detailed project phase). Due to the multidisciplinarity of the project, the future goals and the interface with an operating road infrastructure (tunnel "Isla Bella"), it was decided to exploit the advantages of the BIM method during the planning phase. The graphical 3D visualisation of the construction and electrical systems allows the early identification and elimination of potential construction conflicts, enables the development of the best planning solutions and facilitates the calculation of the required material quantities. The inclusion of metadata for installations allows for a smooth and automated creation of monitoring and maintenance programmes.





Envisaged work:
- New construction of safety tunnel in Isla Bella Tunnel.
- Concrete repair and surface protection system in the intermediate ceiling
- Concrete repair on paraments
- Replacement of verges, cable pipe and hydrant line
- New drainage system
- Additional inspection on parament concrete and inspection for asbestos
- Inspection of the condition of the intermediate ceiling



Hauptdaten
Repair work in the tunnels
- Isla Bella: L = 2.5 km
- Plazzas: L = 250 m