

Expansion of the Stuttgart Urban-Suburban Railway (S-Bahn)



EBP was commissioned together with Sweco and VIA-Con to carry out a study to assess the feasibility of a proposal to expand the urban-suburban railway (S-Bahn) in Stuttgart. The proposal in question centers mainly on railway expansion in Stuttgart's northern zone and the expansion of stations in the existing S-Bahn network, the construction of a railway station at Mitternachtstraße and the establishment of a rail link from Stuttgart Vaihingen to the new Stuttgart-21 hub.

As the supervisory authority of the Stuttgart S-Bahn, the Greater Stuttgart Regional Council (Verband Region Stuttgart) is responsible for the future development of the S-Bahn network.

Efficient S-Bahn operation depends on the availability of and access to the relevant infrastructure, as well as on the implementation of smart train schedules across the core S-Bahn network. As part of the Stuttgart-21 development project, this core network is to be expanded through the addition of a new S-Bahn station at Mitternachtstraße north of the Stuttgart's main railway station, which is also the location at which the northern and eastern branches of the Stuttgart S-Bahn network are to be joined.

Client

Greater Stuttgart Regional Council
(Verband Region Stuttgart)

Facts

Period 2017

Project Country Germany

Contact persons

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Picture: EBP

The aim of the feasibility study, which was carried out by EBP together with the Frankfurt-based Sweco GmbH and the Aachen-based VIA Consulting & Development GmbH, was to identify measures to improve the design of the Mitnachtstraße S-Bahn station and to enhance operational efficiency across the core S-Bahn network. The scope of the assignment also included completing the corresponding planning for the implementation of the measures, developing various design proposals for the Northern Cross segment of the S-Bahn and working out the best way to link the Panorama Railway, i.e. from Stuttgart-Vaihingen in the direction of Feuerbach and Bad Cannstatt, to the main Stuttgart network.

The various proposals were evaluated in terms of the following criteria:

- Operational feasibility
- Forward compatibility with other expansion options (T-Spange and P-Option of Stuttgart-21 development project)
- Infrastructure investment proportionality
- Options for staged financing