

DB upgrade and new route Karlsruhe – Basel Planning Approval Section (PAS) 9.1, Schliengen – Eimeldingen 17.6 km Katzenberg Tunnel

The Karlsruhe – Basel line is playing a significant and growing role in the north-south connections of national and international rail transport. The new line, which is designed for speeds of 250 km/h, is being constructed over 21.4 km in parallel the Rhine Valley line.

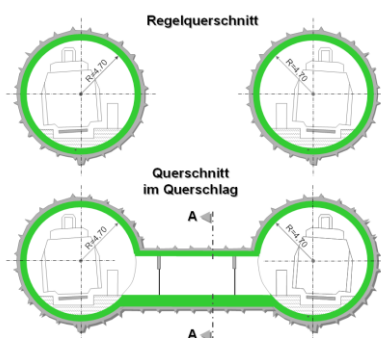
The 9.4 km long Katzenberg Tunnel is an outstanding structure, which will reduce traveling distances and times for passengers and represents a considerable relief to residents living adjacent to the Rhine Valley line.

Thanks also to the integrated assessment of the optimal route in terms of

- Environmental compatibility
- Soundproofing
- Track length
- Journey time
- Burden placed on residents,

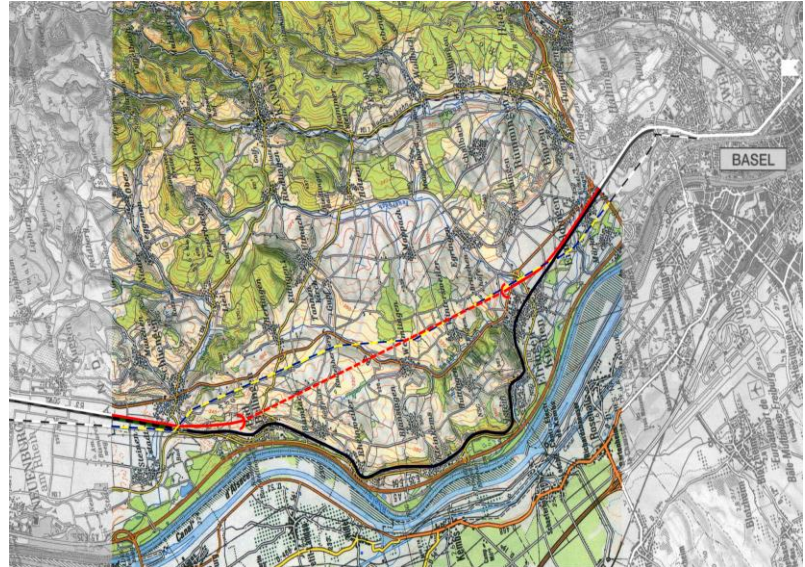
the Katzenberg Tunnel represents optimal routing.

Site investigations and the results of facility planning by the engineers working on the project tipped the scales in favor of a twin-tube tunnel with a tube diameter of 11.16 m.



Two tubes with short distances for safety: Cross-cut every 500 m

As part of the landscape conservation support and planning, a nearby quarry was used as a permanent disposal site for the excavated material, while an above-ground belt conveyor system proved to be the optimum solution for removing the material.



Straightening of the DB Rhine route near Basel

sfirion AG played a key role in project management and project control, while providing full support to the Clients in all tasks and decision-making, both at the planning and execution stages

The main tasks fall within the following areas:

- Costing and scheduling
- Contract management
- Change order management
- Risk management
- Project documentation

All Client task on-site use issues have been taken care of by sfirion AG since the beginning of the construction activities.

Cooperation is thus optimized through the coordination of all parties involved. Extensive knowledge of planning and execution ensure that critical decisions are examined and clear recommendations for action submitted.

With many years of project management experience, sfirion AG is also able to assist the Clients with extra cost requirements in an advisory capacity.

Client

DB Netz AG

Contracting authority

DB ProjektBau GmbH
Niederlassung Süd-West

Reference person

Dipl.-Ing. H.-G. Haid,
Overall Project Manager
Dipl.-Ing. Th. Zieger,
Project Manager

Construction time

2003 - 2012

Construction cost

approximately EUR 340 million (tunnel only)

Contract value

EUR 3.1 million (with connection to the Rhine Valley Railway (Open Section))

Services provided by sfirion AG

- Project management
- Project management
- Contract management
- Document management

Work phases

LPh 3-8