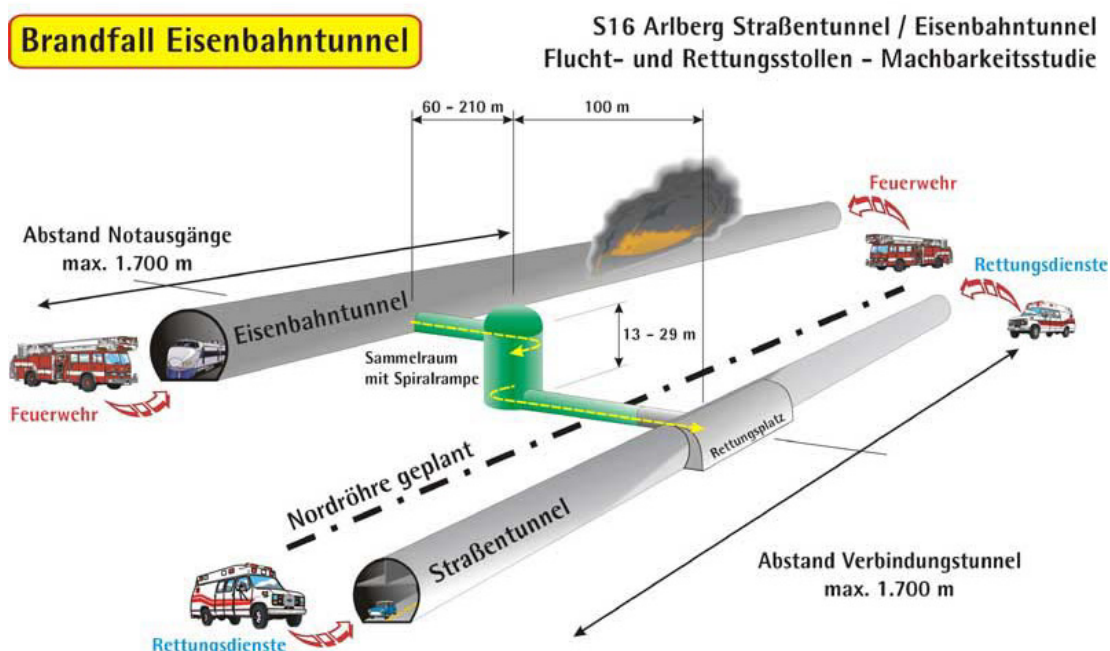


Project	Arlberg Expressway S16 Escape Gallery
Client	Alpenstraßen AG
Consulting Services	2004 – 2006 project management, supervision
Total Cost	US \$ 24 million
Technical Data	escape gallery: length 2.4 km, cross section 30-60 m ² caverns: cross section 180 m ² shafts: cross section 150 m ²



Description	<p>The Arlberg Road (single tube, approx. 14 km) and the Arlberg Railway Tunnel (single tube, approx. 10 km) are interlinked by means of a gallery in order to provide an evacuation system with escape route lengths below 1,700 m.</p> <p>Both tunnels are situated in a zone of weak metamorphic phyllite and gneiss rocks along the northern rim of the Silvretta massive and close to the transition zone between the Crystalline Central Alps to the Northern Limestone Alps.</p> <p>High overburden and potentially squeezing rock pose high demands to the galleries, caverns and shafts which are constructed according to the principles of NATM. As the main tunnels remain operative during construction, drilling and blasting works need to be performed with due diligence, eliminating any kind of interference with the main tunnels as to operation and safety.</p>
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