

INTERNATIONAL MOBILITY DAYS VIENNA 2023

HOLISTIC COMPETENCES IN TRANSPORT INFRASTRUCTURE

BERNHARD KOHL
23.11.2023



ILF AT A GLANCE

Privately owned, independent, international engineering and consulting firm with its origins in Austria and Germany

9,500+
PROJECTS
SUCCESSFULLY EXECUTED

150+
COUNTRIES IN WHICH ILF HAS
BEEN SUCCESSFUL

45+
OFFICE LOCATIONS
ACROSS FIVE CONTINENTS



2,500+
EMPLOYEES
WORLDWIDE

252+
MILLION €
REVENUE

55+
YEARS OF
EXPERIENCE

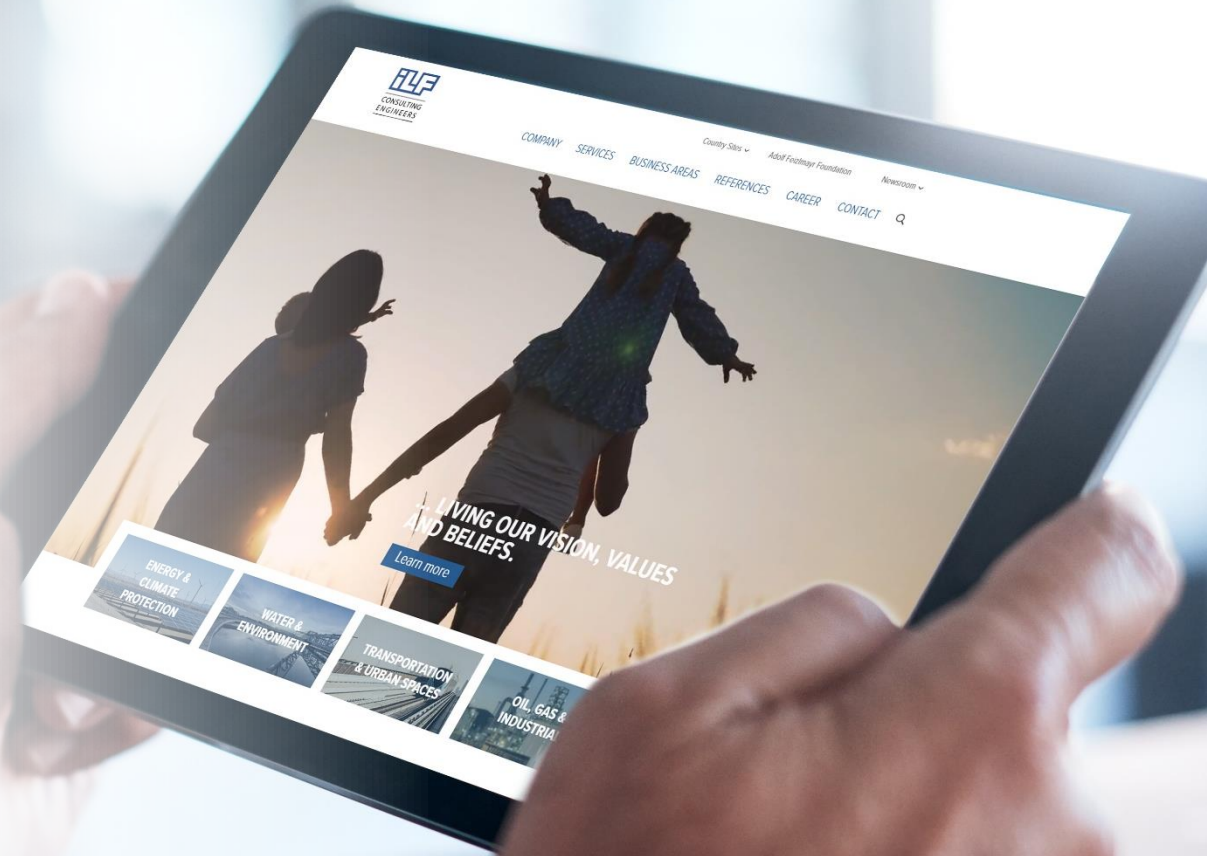


Tailored interdisciplinary engineering, consulting and project management services for complex industrial and infrastructure projects

SERVICES

As a full-service provider, ILF renders the following services to satisfy the unique needs of clients throughout the lifecycle of a project:

- **Management Consulting »**
- **Engineering »**
- **Project Management »**
- **Additional Services »**



ILF SERVICE OFFERING

OUR COMPETITIVE EDGE IS THE MULTI-DISCIPLINARY SERVICE MIX

	1. Appraise	2. Select	3. Define	4. Execute	5. Operate	6. Close
Management Consulting Services	Market Studies	Financial Advisory		Lender's Technical Advisory		
	Master Planning	Transaction Advisory, Due Diligence				
	Institutional Analysis		Institutional Strengthening		Operational Maintenance Consultancy	
	Project Screening	PPP Advisory		Dispute Resolution		
	Pre-Feasibility Studies	Bankable FS				
		Optimization Studies			Optimization Studies	
		Environmental & Social Impact Assessment				
Engineering Services	Pre-Concept	Conceptual Design	Basic Design	Guide Design	Integrity Assessment	Decommissioning Planning
			FEED, Tender Design	Detailed Design	Rehabilitation Design	
			Permit Application Design	Construction Design	Modification Design	
				Design Review		
				As-Built Documentation		
Project Management Services	Project Organisation	Project Management Consultancy			Operation Supervision	
		Risk Management				
		Stakeholder Management				
		Project Execution Planning	Procurement Services	Supply Chain Management		
				Construction Supervision		
				Commissioning Supervision		

TRANSPORTATION & URBAN SPACES



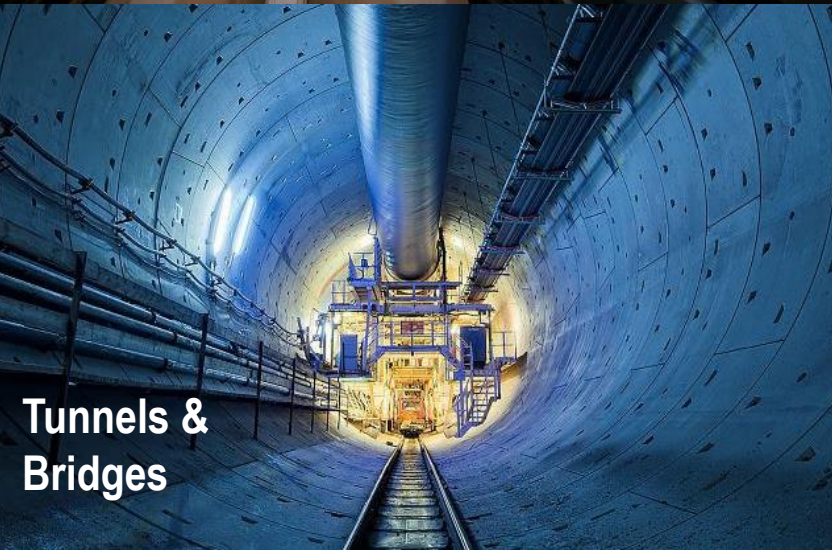
Urban Development &
Urban Transportation



Railways



Airports



Tunnels &
Bridges

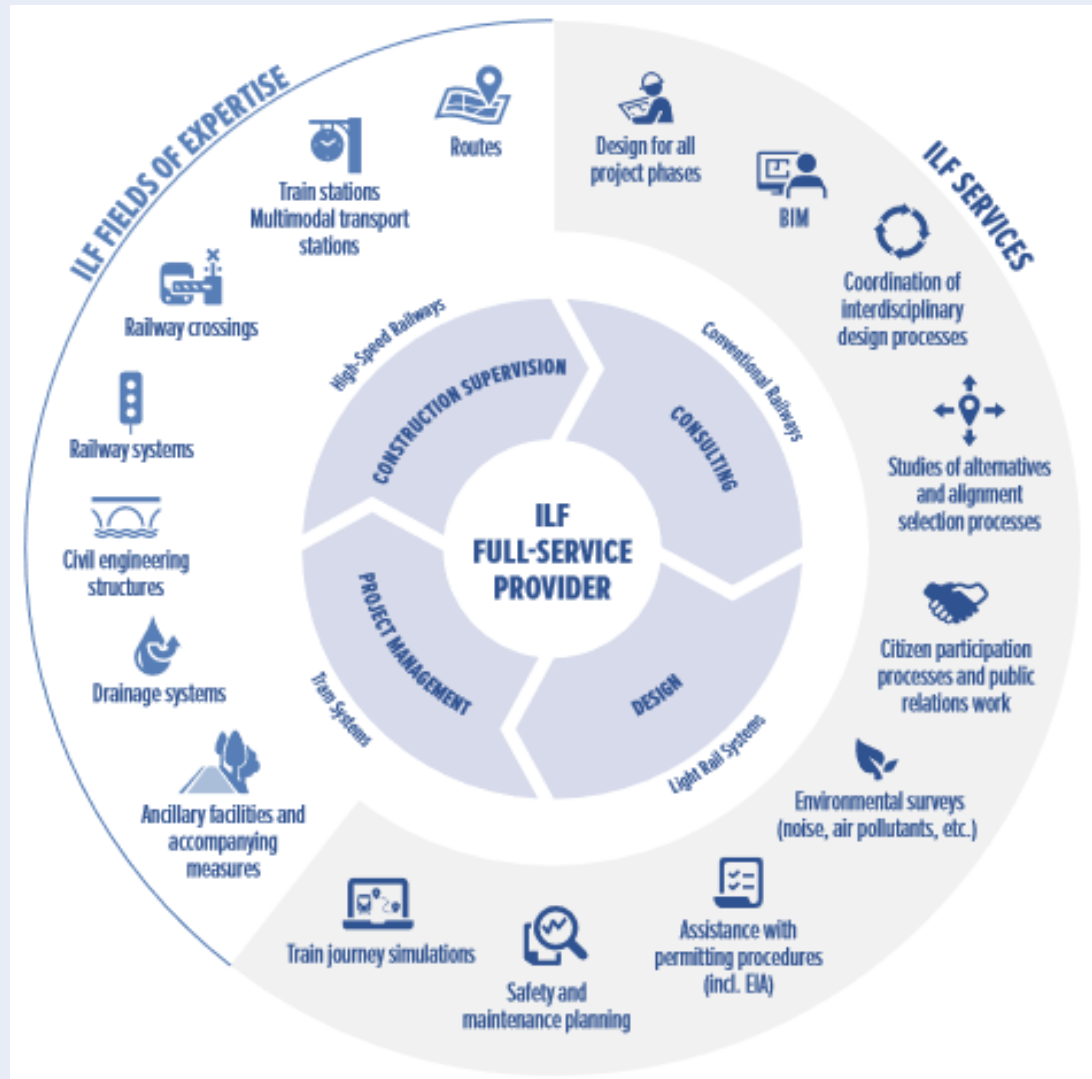


Roads



Ski Resorts &
Ropeways

RAILWAYS



TUNNELS & CAVERNS

FIELDS OF EXPERTISE

■ Tunnel civil design

- Railway tunnels
- Road tunnels
- Water tunnels & utility tunnels
- Caverns & shafts

■ Tunnel installations

- Tunnel ventilation
- Firefighting equipment
- Doors and airlocks
- Tunnel lighting
- Communication systems
- Traffic control and monitoring systems
- Data transmission and tunnel control systems
- Power supply and distribution

■ Tunnel safety & operations

- Safety concepts & emergency planning
- Quantitative risk assessment
- Resilience management
- Maintenance management



QUITO METRO LINE 1



CLIENT

Empresa Publica Metropolitana
Metro de Quito

TIME FRAME

2016–2023

DATA

Civil works for depots, 22-km-long metro tunnel, access tunnels, 15 stations, 13 ventilation shafts, 10 pumping stations, 10 emergency exits, as well as complete electrical and mechanical equipment such as signaling, power supply, substations, ticketing system, telecommunications and operations center, fire-fighting facilities, ventilation system, lifts and escalators

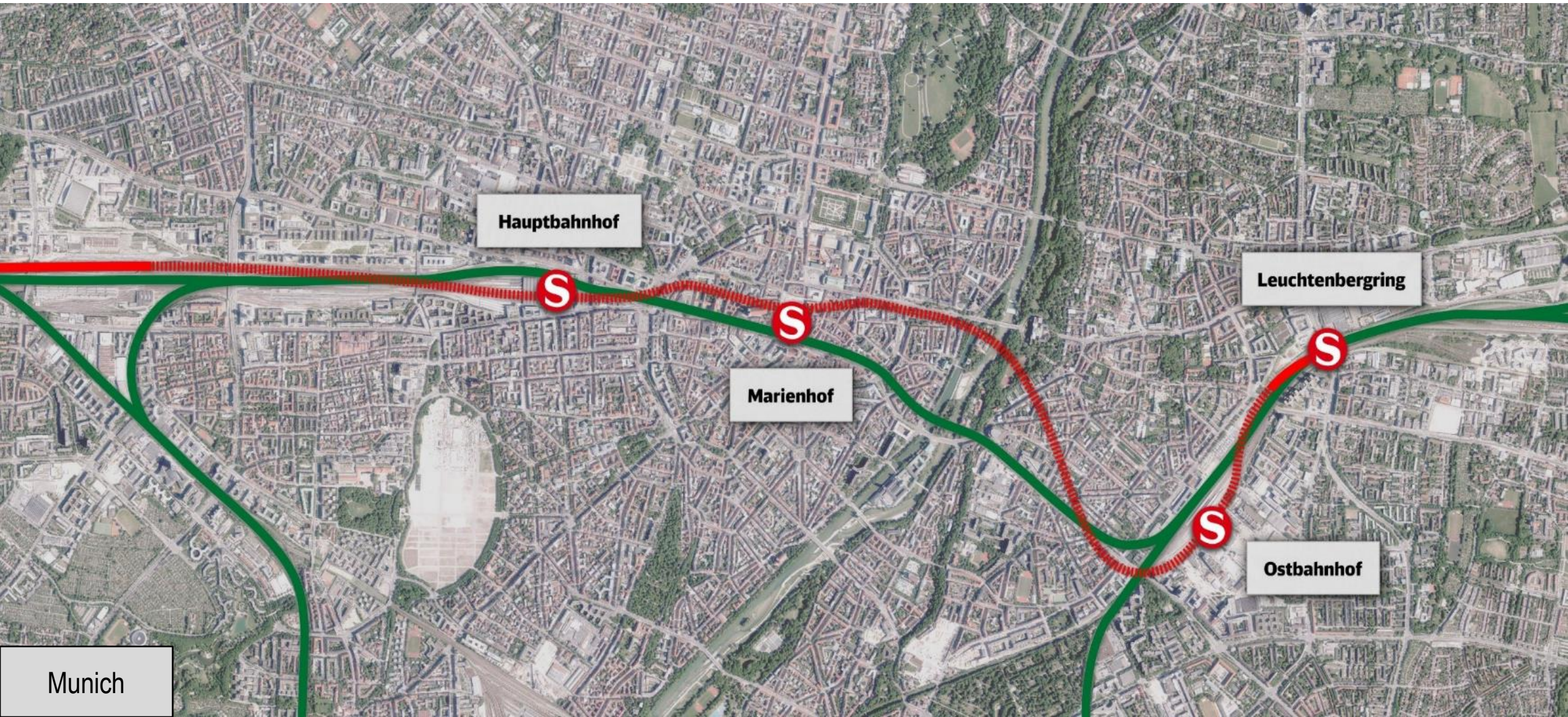
SERVICES

Site supervision

SDGS



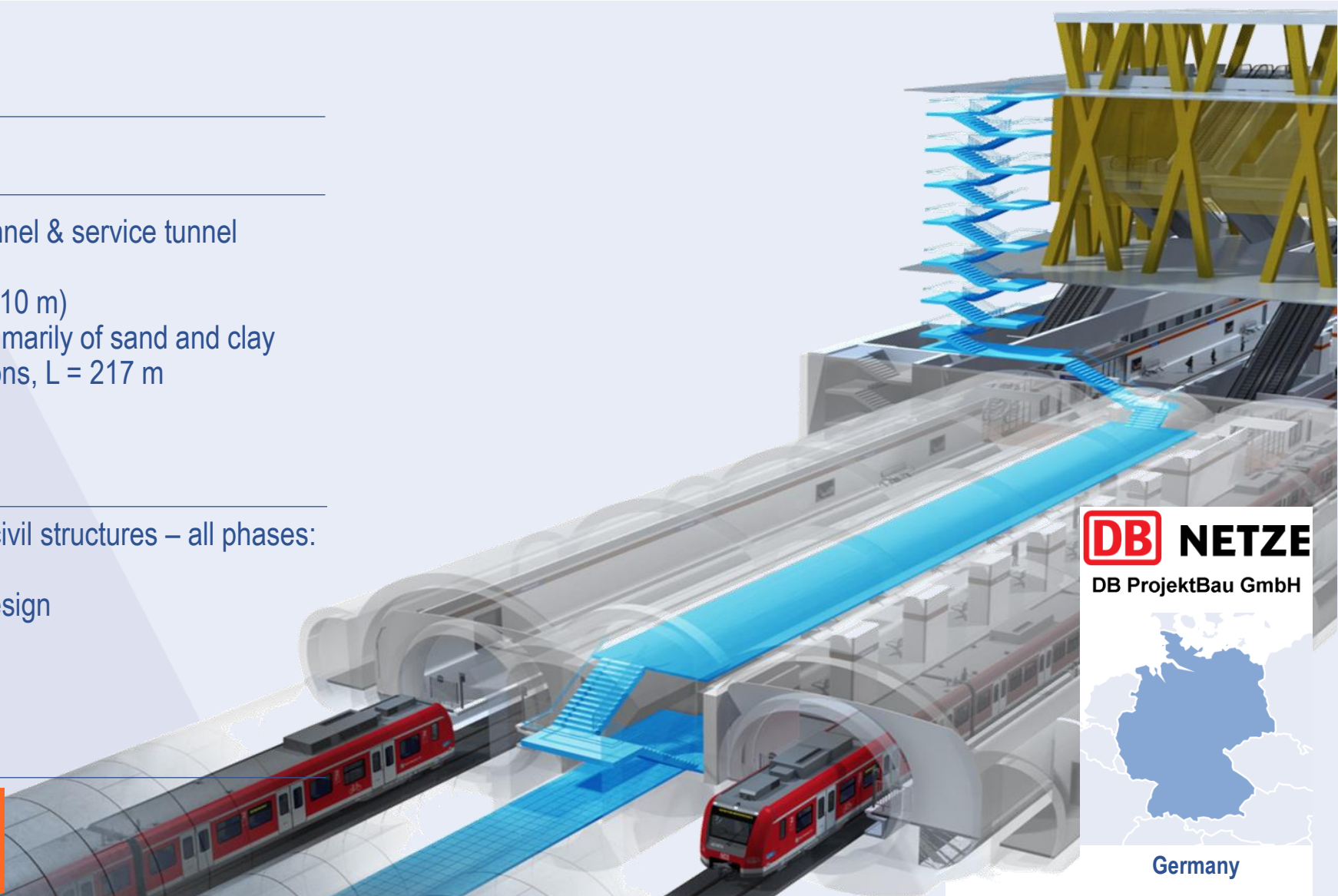
2ND S-BAHN MAINLINE MUNICH



2ND S-BAHN MAINLINE MUNICH

CLIENT	DB Netz AG
TIME FRAME	2017– ongoing
DATA	<p>Twin-tube railway tunnel & service tunnel</p> <p>Total length: 7.2 km</p> <p>Excavation: TBM (Ø 10 m)</p> <p>Soft ground made primarily of sand and clay</p> <p>3 Underground stations, L = 217 m</p> <p>4 Emergency shafts</p> <p>17 Cross passages</p>
SERVICES	<p>Design services for civil structures – all phases:</p> <p>Conceptual design</p> <p>Permit application design</p> <p>Tender design</p> <p>Detailed design</p> <p>BIM Design</p>

SDGS



DB NETZE
DB ProjektBau GmbH

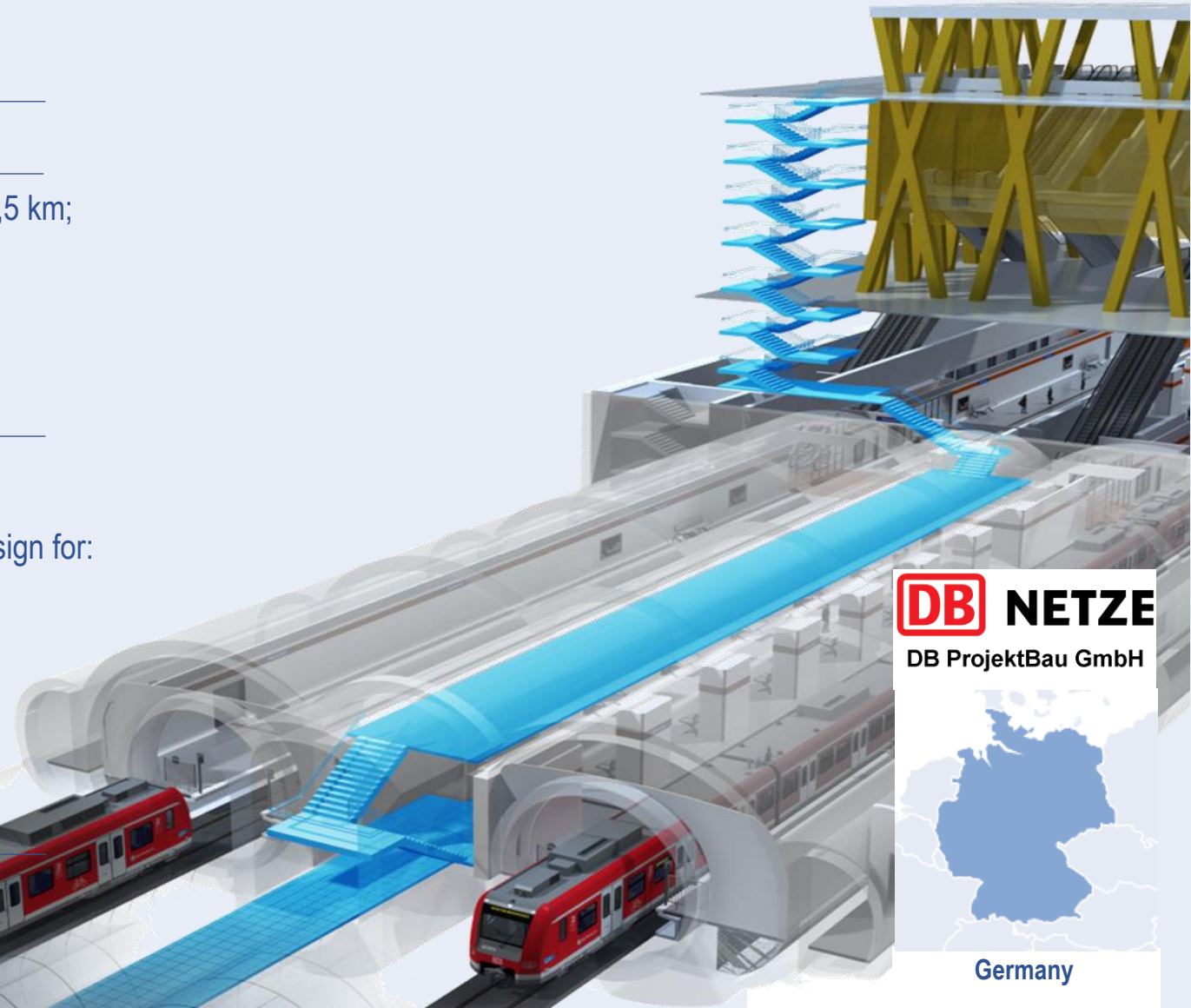


Germany

2ND S-BAHN MAINLINE MUNICH

CLIENT	DB Netz AG
TIME FRAME	2017-ongoing
DATA	Twin-tube railway, Tunnel section, Length: 2 x 3,5 km; 3 major underground stations (Hauptbahnhof, Marienhof, Ostbahnhof) incl. HVAC systems , Emergency tube, Emergency exit shafts in tunnel section, Emergency staircases in stations
SERVICES	Project control services, Optimisation of preliminary design, conceptual design, tender, detailed and BIM design for: <ul style="list-style-type: none">- Smoke extraction system and fire water supply for stations,- Elevators with overpressure system,- Fire water supply for tunnels,- Fresh air supply and exhaust air system for stations, emergency tunnels, emergency shafts and technical rooms.

SDGS



DB NETZE
DB ProjektBau GmbH



DIGITAL TWINS

SCAN DATA TO BIM MODEL AUTOMATION

THANK YOU FOR YOUR ATTENTION!

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