

Worldwide Activities



TUNNEL DESIGN

TEMPORARY WORKS DESIGN

GEOTECHNICAL ENGINEERING

CONSTRUCTION MANAGEMENT

INSTRUMENTATION & MONITORING

WATERPROOFING & WATER CONTROL

TUNNEL REHABILITATION

MINING SUPPORT SERVICES

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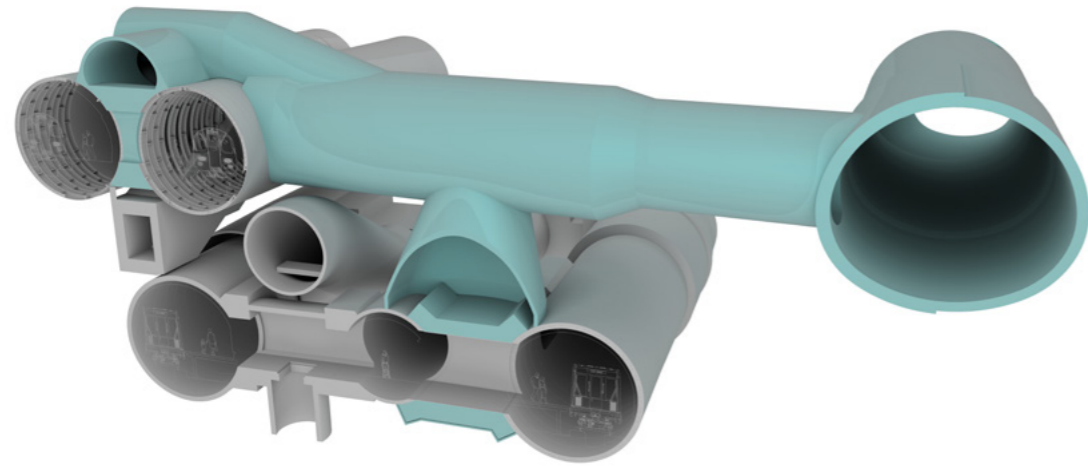


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Dr. Sauer & Partners is an independent consultancy specialised in providing design and construction management services for tunnels, shafts and caverns in any type of geology. The company has experience in some of the most challenging tunnelling projects around the world.



^ **BIM Model** – Bank Station Capacity Upgrade, London, UK

BANK STATION CAPACITY UPGRADE, London, UK

Bank Station is a London Underground station located in the City of London financial district; it is a key interchange served by five lines. The Bank Station Capacity Upgrade (BSCU) aims to relieve heavy passenger congestion during peak hours for boarding, alighting and interchange. The capacity upgrade comprises the construction of a new southbound platform tunnel and associated length of running tunnel for the Northern line, connecting passageways to the existing station tunnels, and the provision of step-free access. The total length of new tunnels is 1,300m with tunnel cross sections that range from 10m² up to 90m².



Dr. Sauer & Partners designs pioneering underground solutions - delivering innovative, cost-effective and environmentally aware designs.



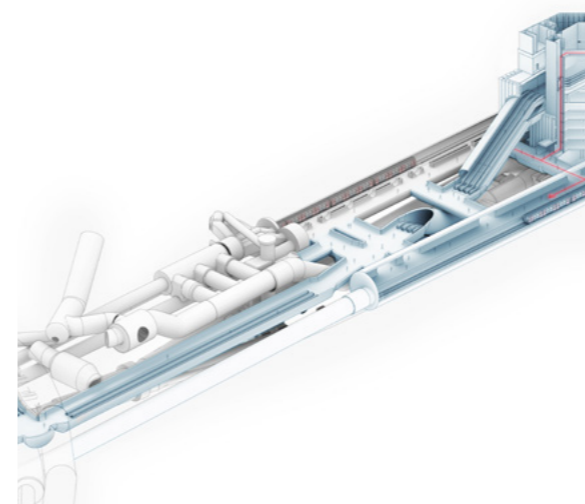
TUNNELLING METHODS

Dr. Sauer & Partners offers expertise in all areas of tunnelling and for the different tunnelling methods: mined (NATM / SEM / SCL), mechanised tunnelling methods and pressure-face TBMs, open cut methods (Cut & Cover, Top-down).

DESIGN SERVICES

Design services offered by Dr. Sauer & Partners include:

- Feasibility and other technical studies
- Comparative studies: comparing mined / mechanised / Cut & Cover tunnelling methods
- Conceptual and preliminary design
- Final design and bid support services
- Conceptual and detailed cost estimates
- Risk management
- Value engineering
- Design-build design services
- Construction support services
- Expert advice
- Waterproofing design
- Tunnel ventilation and emergency evacuation design
- Insurance support services
- Claim management



VALUE ENGINEERING

Dr. Sauer & Partners provides a bespoke solution for every scenario, delivering a value-driven design that is both safe and durable. Through value engineering, the following benefits are derived:

- Faster construction
- Reduced materials and spoil transportation
- Reduced commercial risk
- Safer construction