



TEC



Tunnel Engineering Consultants





“TEC is the international specialist in immersed tunnelling”



Tunnel Engineering Consultants (TEC) is a world-leading specialist in soft-ground tunnelling and a recognised expert in design, engineering and consultancy of immersed tunnels. Since 1988, TEC has delivered solutions for some of the world’s most complex and innovative tunnelling projects.

About TEC

TEC is a permanent joint venture between leading international engineering consultancies Haskoning and Witteveen+Bos. This long-standing partnership ensures continuity, as well as deep, highly specialised expertise in tunnel design and construction. It enables TEC to tackle complex underground mobility challenges through an integrated, innovative, and sustainable project approach.

With a track record spanning more than 35 years, TEC has contributed to many landmark infrastructure projects worldwide. These include the Øresund Link between Denmark and Sweden, the Busan Geoje Link in South Korea, the North/South Metro Line in Amsterdam, the Hong Kong - Zhuhai - Macao Fixed Link in China, the Fehmarnbelt Link between Denmark and Germany, the Einstein Telescope and the Oosterweel Link in Antwerp.

Expertise

Through its strong and long-term partnership, TEC draws on the combined expertise of Haskoning and Witteveen+Bos to deliver the full spectrum of engineering capabilities required for both small-scale and large underground infrastructural projects. All essential technical knowledge for the design, construction, operation, and management of tunnels—whether for road, rail, or utilities—is integrated within a single organisation. This enables a multidisciplinary approach to project implementation.

TEC applies its specialised knowledge of tunnel design and construction to solve complex underground mobility challenges. TEC provides key expertise in the following fields:

- Civil Design
 - Immersed tunnels
 - Bored tunnels
 - Cut&Cover tunnels
 - Special tunnel techniques
 - Artificial islands and land reclamations
 - Submerged floating tunnels
- Mechanical and Electrical Design
 - Technical systems
 - Safety
- Operation, management and maintenance
- Refurbishment and renovation
- Condition assessment (structural health)

Added value

TEC is specialist in soft-ground tunnelling. For more than 35 years, TEC has been involved in numerous immersed tunnel projects, including major sea crossings, fulfilling roles ranging from owner’s consultant to detailed design engineer for contractors. These roles span all phases of a project and position TEC as the preferred consultant and engineering partner for its clients. Through its

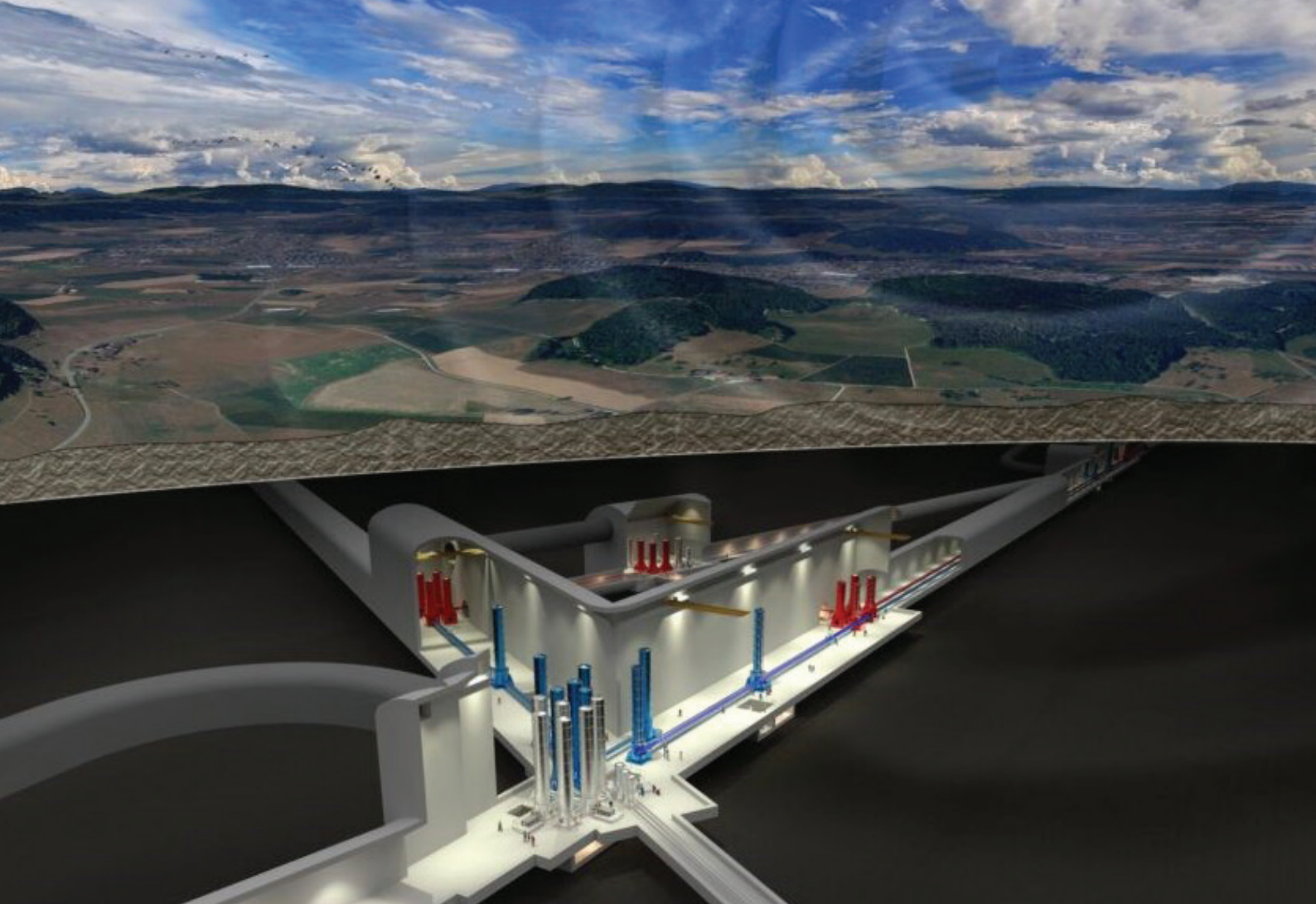
involvement in a wide variety of complex tunnelling projects, TEC has developed the knowledge and experience needed to identify the most suitable tunnel concept for your project, adding value to every underground project TEC undertakes. Continued participation in major international tunnel projects reinforces TEC’s prominent position in global tunnelling.

Services

Providing expertise across all stages of tunnel projects—from concept and initiation to design, delivery and operation, TEC applies integrated, innovative and sustainable approach to deliver a multidisciplinary range of consultancy services.

These include:

- Feasibility studies
- All design stages from conceptual to detailed design
- Design reviews and independent design checks
- Tender documentation and tender evaluation
- Project and contract management
- Construction supervision and monitoring
- Cost engineering
- Risk management and value engineering
- Safety analyses and QRA and scenario analyses
- Operation and maintenance strategies
- Refurbishment and renovation



Key Projects

- Busan Geoje, South Korea
- North/South Metro Line Amsterdam, Amsterdam
- Hong Kong Zhuhai Macau Link, China
- Söderström tunnel, Stockholm, Sweden
- Fehmarnbelt Fixed Link, Denmark
- Sluiskiltunnel, The Netherlands
- Sharq Crossing, Doha, Qatar
- Santos-Guaruá Crossing, São Paulo State, Brazil
- Red Line Metro, Tel Aviv, Israel
- Marieholm tunnel, Gothenburg, Sweden
- Oosterweel Link, Antwerp, Belgium
- Renovation 1st Heinenoordtunnel, Rotterdam
- Blankenburg Link, Rotterdam
- Amsterdam Tunnel Renovation Program, Amsterdam
- Submerged Floating Tunnel Research Program, China
- Princess Elisabeth Island (PEI) / Modular Offshore Grid 2 (MOG2) energy island
- Einstein Telescope
- Fehmarnsund querung



Tunnel Engineering Consultants

Contact & information:

Laan 1914 no 35
3818 EX Amersfoort
P.O. box 28013
3828 ZG Amersfoort
The Netherlands
+31 (0)88 348 2540
info@TEC-tunnel.com
www.TEC-tunnel.com



Copyright

Cover page upper image: Lantis

Cover page lower image: DB InfraGO AG/ DEGES

Inside page left image: Femern A/S

Inside page right image: Tom Feenstra