



Engineering by HOCHTIEF – Better Project Solutions.

HOCHTIEF Engineering supplies engineering services—but not only for HOCHTIEF. For decades, we have worked for numerous customers in industry and the public arena. They all value our skill and project proximity. With this brochure, we would like to explain why.

Our range of services

Throughout the entire lifecycle of a building, you can rely on our experience and skill—whether you are currently developing, designing or want to clarify the details. During construction and subsequent maintenance and operation through to refurbishment or dismantling.

With us, you can look forward to design and engineering from interdisciplinary, high-performance, and clearly-focussed teams; consulting from experienced experts from a wide range of specialist areas as well as robust project management support and state-of-the-art building information modeling applications.



Industries

Mining, Minerals
Construction and Real Estate
Chemicals, Oil & Gas, Pharmaceuticals and Biotechnology
Food Industry
Energy Industry, Utilities
Automotive, Aeronautics
Offshore Industry and Shipbuilding
Mechanical and Plant Engineering
Steel and Metal, Electrical Industry
Manufacturing Industry
Public Administration
Trading, Wholesale and Retail
Information and Communications
Logistics and Transport Infrastructure
Sports and Entertainment
Hotels and Leisure
Financial Industry
Healthcare and Social Services
Education and Research



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Building types

Transport routes
Bridges and tunnels
Railway stations and airports
Civil and underground engineering
Supply and disposal infrastructure
Hydraulic and offshore structures
Heavy industrial construction
Industrial structural and steel construction
Site infrastructure
Warehouses and logistics buildings
Renewable energy generation plants
Fossil power plants
Nuclear plants
Network infrastructure
Waste recycling plants
Water treatment
Building construction
Special structures

Elbe Philharmonic Hall, Hamburg

Supporting structure detailed design



Service on a solid foundation

- Comprehensive range of skills and services
- Deep expertise and many years' experience
- High-performing, homogeneous project teams
- Internationally experienced and mobile
- High standards in innovative development
- Interdisciplinary and holistic work methods
- Close to the customer and knowledgeable about the project
- Cost-conscious, responsible and solution-oriented
- Focussed on occupational health and safety
- Environmentally and socially responsible

Project initiation	Preconstruction	Project execution	Completion/operation
<ul style="list-style-type: none"> ▪ Feasibility studies ▪ Project preliminary design ▪ Analysis of tender documents ▪ BoQ creation/calculation ▪ Technical advice on special topics ▪ Preliminary and detail design of special proposals ▪ Design Review ▪ Risk analysis 	<ul style="list-style-type: none"> ▪ Approval procedures ▪ Design/implementation planning ▪ Design/check reference details ▪ Design management ▪ Design coordination ▪ Value Engineering ▪ Scheduling ▪ Works preparation/logistics ▪ Auxiliary construction measures ▪ BIM concepts 	<ul style="list-style-type: none"> ▪ Experts for e.g. steel construction, façade, green building, technical equipment, geotechnics, dynamics ▪ Site management ▪ Construction management support ▪ Schedule controlling and management ▪ BIM management 	<ul style="list-style-type: none"> ▪ Claim support ▪ As-built documentation ▪ Acceptance support ▪ Warranty management ▪ Lifecycle management ▪ Property management ▪ Refurbishment planning

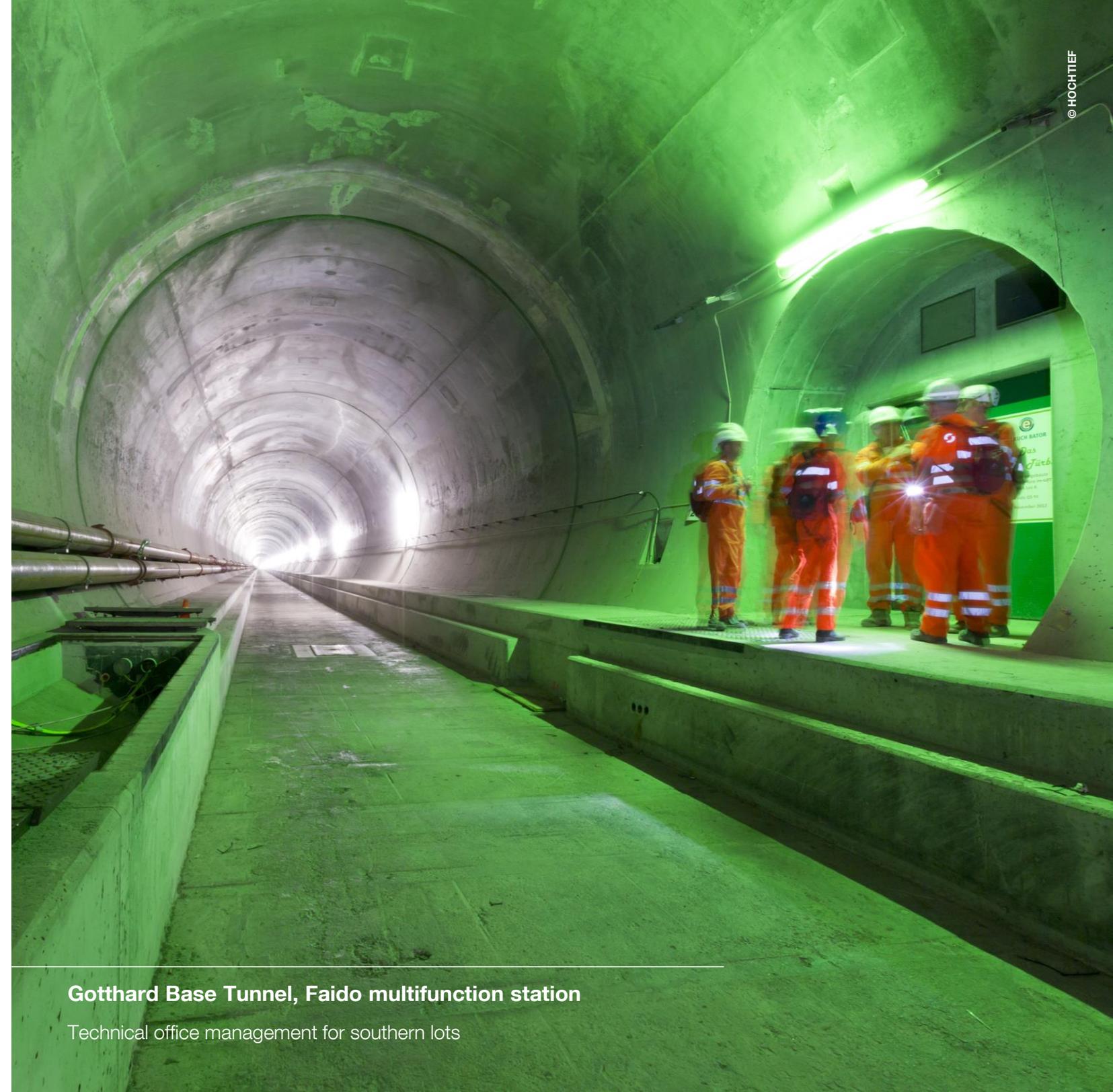
How we create value for you

Deeply-rooted in classical engineering skills, our design teams and experts stand for technical perceptiveness and top performance—for solving very special and technically-complex topics as well as in large, organisationally-challenging engineering tasks.

What distinguishes us from most consulting companies is our proximity to both practice and the construction site, international experience and multi-disciplinarity as well as excellent design- and construction-process management. At the same time, we are at home in the field of execution-oriented design work, such as special approaches to analysis and expert evaluation of topics in ongoing construction-site operation or during production in your factories.

You can always depend on us to keep to the targets we have agreed with you regarding functionality, economy and schedule.

As part of the HOCHTIEF Group, we also have the global insurance cover of a comprehensive policy as well as extraordinary capitalisation and security.



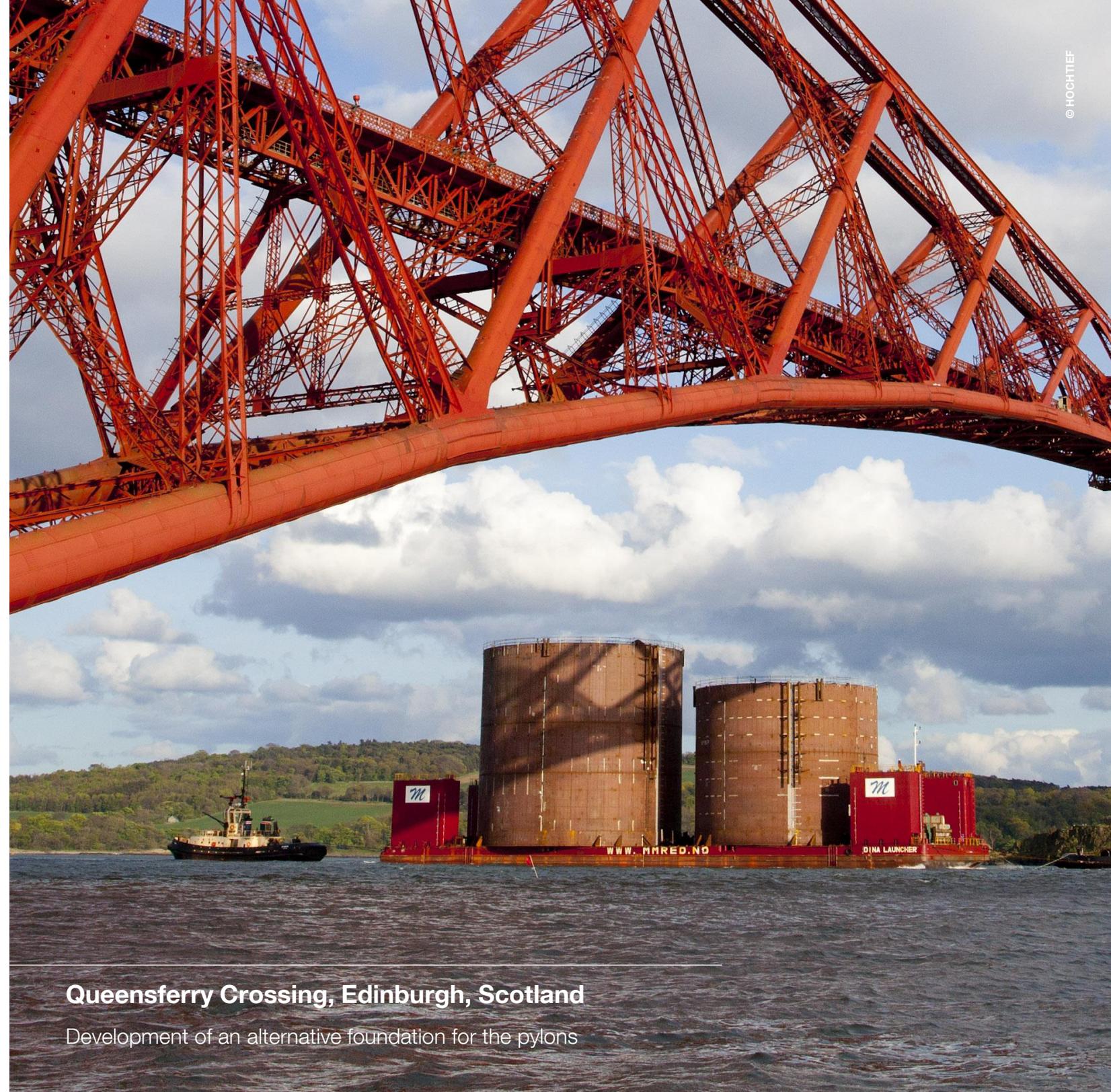
Gotthard Base Tunnel, Faido multifunction station

Technical office management for southern lots

What sets us apart

Observing standards is not always enough for future-proof solutions. We also differentiate ourselves through:

- Highest design standards for occupational safety, health protection and environmental protection.
- The use of state-of-the-art and highly advanced software tools for design and project management.
- Our own independent Innovation and Testing Center with powerful inspection and measurement facilities.
- Innovative work within the company and together with national and international research facilities in the fields of building materials technology, renewable energy, virtual design and construction and innovative production technologies (Lean).
- Membership of all relevant technical committees and participation in the updating of standards and regulations.
- Digital information management-based consulting and engineering services for life-cycle and ageing management in buildings and manufacturing facilities.
- Services for the optimization of design solutions and projects (Project Value Management and Value Engineering).
- Our pioneering role in Building Information Modeling (BIM), where we have been among the development drivers and early adopters of new technologies and project-related solutions for over a decade.



Queensferry Crossing, Edinburgh, Scotland

Development of an alternative foundation for the pylons

Close to you



Locations in:

- Essen
- Frankfurt
- Hamburg
- Cologne
- Berlin
- Amsterdam
- Chennai
- Sydney
- Zurich

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