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**HOCHTIEF Consult
Construction Management
Services**

Process quality and stability -
Two essential factors for your
project success



HOCHTIEF Construction AG
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Dear clients and business partners,

With an **integral project approach** method we provide our clients with comprehensive construction planning and management services in building construction, civil engineering and infrastructure projects. Our competence in scheduling, site installation and logistics planning, and our foundational technical knowledge are defining components making us an essential asset to our clients in the successful execution of projects.

We offer our clients **expertise** and specialised knowledge not only concerning work preparation and construction management, but also in the area of project management. Our qualification is significantly based on our experienced knowledge in scheduling, resource planning and logistics planning, complemented by our operational and multidisciplinary experience in each project phase along with our desire for creative and constant improvement.

With our **competencies** we contribute to projects within all HOCHTIEF divisions and in addition we serve our external clients successfully. Both our experience and networking add to the integrated success for our clients projects.

Yours sincerely,

Heinz Stenmans

Dipl.-Ing. Heinz Stenmans

Department Manager
HOCHTIEF Consult Construction Management Services

Civil

As **service providers** we support each HOCHTIEF Civil operational unit in prequalification, bid preparation and execution of large-scale projects.

Our **service portfolio** comprises construction planning and optimised logistics at an early stage, together with an efficient site installation and schedule controlling. Thus we enable our clients to reliably meet their project objectives in relation to time, cost and quality.

Two toll roads in Austria and Slovakia, where we prepared the overall schedule for the concessionaire, count to our outstanding **references**. Furthermore we gained the confidence of our client through model-based scheduling and the planning of construction phases on the metro extension project Hafencity Hamburg.

Building

As **service providers** we support each HOCHTIEF Building unit in prequalification, bid preparation, and execution. Thereby we provide our experience from multiple complex projects to our clients.

Optimised site installation, logistics, scheduling and schedule control, model based scheduling, as well as the design of temporary structures (pit lining, crane foundations) compose the services provided by our experienced team. Process optimisation by utilising the Continuous Improvement Process (CIP) und implementing Lean Construction methods have a foremost priority.

Our broad expertise in the construction of high-rise buildings is demonstrated in numerous **references** including the Main Tower in Frankfurt and the Sky Office in Duesseldorf. Furthermore we have been intensively involved in the challenging construction of the new Elbphilharmonie in Hamburg.



Our services:

(Civil/ Building)

- Work preparation / Construction methods
- Construction sequence / Logistics
- Site installation
- Scheduling / Controlling
- Model-based scheduling (4D planning)
- Planning of design processes
- Lean Construction
- Analysis of construction phases
- Scaffolding and formwork
- Pit lining
- Crane foundations
- Temporary structures

Project Management Services National

We support our clients' **project management** through all project phases. Meeting project goals tends to get more and more difficult, due to increasing time and cost constraints. Additionally various external disturbing factors provoke a gap between intention and reality.

Counterbalancing the disturbances through an anticipatory, process-oriented project management is of utmost importance. In conjunction with the project team we work on the timely identification of time and cost variances and develop creative **solutions** in order to implement effective control and regulation measures.

Our team has a **broad experience spectrum** including several construction delivery methods from general contracting to construction management. Using our expertise and our project management tools we effectively lighten the load of the project management and the project team and ensure the accomplishment of the set project goals.

Project Management Services International

We accompany our clients in **large-scale international projects** from development to completion and support the project management team in all services of construction management.

Our portfolio offers you **construction management services** on an international level. Our qualified team members will assist you from developing the project team assembly and process organisation, implementing a structured information and communication system, through to the target-oriented project management.

Experience and our intensive **network** to other HOCHTIEF divisions build the basis for a qualified support of your project.



Our services: (national / international)

Project team assembly and process organization:

- Structuring the project in operational and functional units including task assignment and division of competencies.
- Establishment of communication channels, organisation of meetings and reporting, structuring the decision process.
- Establishment of procedures and work-flows.
- Establishment and implementation of collaboration tools and systematic document management.

Cost and payments:

- Payment plans, evaluated schedules
- Transparent, time-based cash flow plans

Capacity-based concepts, scheduling and schedule control:

- Structuring, installation and maintenance of an integrated schedule database system including internal and external reporting.
- Variance- and trend analysis, development of control measures and visualisation.

Additional services:

- Model-based scheduling (3D/4D-planning)
- Site installation / Logistic coordination
- Claim management (Claim enforcement / Claim rejection)

Expertise Development

The competency centre for **Construction Management Services** bundles qualified expertise in schedule control and technical know-how for construction operations. Our internal expertise development unit ensures the retention and advancement of the high professional level within the department.

Targeted knowledge transfers and meaningful standardisation are our answers to the constantly increasing demand for efficient project execution.

Notwithstanding our orientation towards the required services in the day-to-day business we ensure, through our engagement in **research and development**, that future technology is developed practically and that it already contributes to your present project's success.

Implement the insight from our commitment in your next project!

- Basics for **systematical planning of construction time**
- **SLC** – Systematised Logistics Concept
- **Nemetschek On-Site ProgressManager** – Mobile progress survey and easy to handle evaluation of schedule situations on site
- **InTun** – Parallel tunnel lining
Reduced construction time for tunnel projects through innovative execution concepts
- **InPro** – Changes within the European construction industry from traditional work to model-based work using the example of 4D-planning. Information concerning this EU research project can be found on the internet (www.inpro-project.eu).
- **IBP** – Integration procurement planning
Automated data exchange between systems for scheduling and procurement
- Application of **4D-planning** for enforcement of construction claims

Each stage of **improvement** helps you to increase the adherence to schedules and optimise process quality. Thus overall costs can be reduced and risks can be mitigated.

We offer consulting service and support in the selection, setup and implementation of the appropriate **tools and methods** in application to technical project controlling.

The interlinking of tool-knowledge with our know-how in methods, and their integration into the business and project specific organisation concept accounts for one of our central success factors.

The permanent **development** of our services offered as a consequent to the demands of the projects runs as a central theme in our entire service portfolio.



Our services:

- **Consulting und training**
for scheduling and project management software (Primavera P3/P6, MS Project, Asta Powerproject, TILOS)
- **Development and Consulting**
concerning Lean construction approaches in work preparation and schedule control
- **Collaboration Tools**
Independent expertise in consulting and implementation of collaboration tools for effective control of design processes as well as plan and document management within projects.

Health and Safety Management

Since new construction site regulations came into effect on July 1, 1998 the owner bears the **responsibility** for all safety concerns on site. Essentially the **occupational health and safety manager** has to ensure the application of German safety laws during design and construction.

These regulations are targeted on achieving a well-ordered and unimpeded construction process including a reduction of work accidents during construction, maintenance and repairs. The occupational health and safety manager coordinates the assessed activities of all trades on site under consideration of the collective protection systems.

During the **design phase** we analyse the existing design and develop the health and safety plan as well as the supporting documents for future construction works. We add safety aspects to the planning of site installation and the concepts for safe construction methods and procedures.

As **engineering service providers** HOCHTIEF Consult has long-standing experience in building, civil and infrastructure construction.

HOCHTIEF Consult offers **design, engineering, consulting and project management services** from a single source:

Real Estate Services, Construction Management Services, Building, IKS Energy, Infrastructure, Materials, Marine Works.

Our range of services, starting with preconstruction support and ending with warranty management, includes the **whole process of design and construction**.

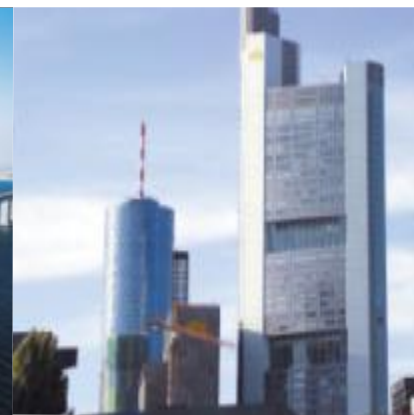
We are strongly connected to our operational units; our strength arises where **practical knowledge and experience** are essential.

Furthermore, we increase our **business volume for external clients** continuously.

HOCHTIEF Consult



Maßnahme	Planung	Realisation	Überwachung	Beendigung
1. Gefährdungsbeurteilung durchführen	01.01.2024	01.01.2024	01.01.2024	01.01.2024
2. Sicherheits- und Gesundheitsschutzplan erstellen	01.01.2024	01.01.2024	01.01.2024	01.01.2024
3. Sicherheits- und Gesundheitsschutzplan genehmigen lassen	01.01.2024	01.01.2024	01.01.2024	01.01.2024
4. Sicherheits- und Gesundheitsschutzplan an alle Mitarbeiter weitergeben	01.01.2024	01.01.2024	01.01.2024	01.01.2024
5. Sicherheits- und Gesundheitsschutzplan während der Bauarbeiten überwachen	01.01.2024	01.01.2024	01.01.2024	01.01.2024
6. Sicherheits- und Gesundheitsschutzplan bei Änderungen aktualisieren	01.01.2024	01.01.2024	01.01.2024	01.01.2024
7. Sicherheits- und Gesundheitsschutzplan bei Beendigung der Bauarbeiten abschließen	01.01.2024	01.01.2024	01.01.2024	01.01.2024



During the **construction phase** we organise safety inspections and execute them. We monitor the implementation of all aspects included in the health and safety plan and all site regulations.

The close cooperation between Consult Construction Management Services (Occupational Health and Safety Manager) and all HOCHTIEF divisions optimises the efficiency of construction and operation, increases occupational safety for employees and generates considerable added value.

Added value through systematical process management

HOCHTIEF Consult Construction Management Services – part of the strong HOCHTIEF Consult network

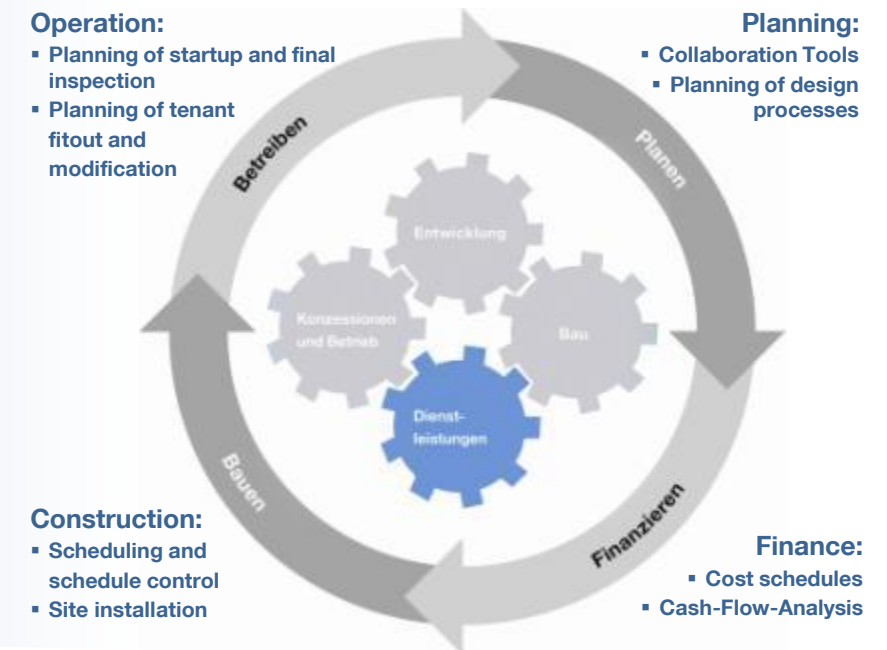
Putting our Clients First

Consult Construction Management Services Part of the HOCHTIEF-Value-Chain

We apply our practical know-how for each given project and as customer-oriented.



Our services are part of every stage within the HOCHTIEF-Value-Chain



- Our **experience** across projects in executing construction processes enables us to support our clients on a project-driven basis.
- The cross-project expertise in various **software** and all established **planning tools** enables us an integrated approach.
- The intensive **network** between all departments at HOCHTIEF Consult and their core competencies minimises interfaces and advocates quality.
- We support and advise the **operational units within HOCHTIEF** and our **external clients** on design and construction processes, as well as on choosing planning and controlling tools.

- + Reliable Schedules
- + Cost Savings
- + Quality Assurance

- + Risk Optimisation
- + Process Stability

- + Safeguarding the future
- + Innovation

References



Elbphilharmonie Hamburg

- Site installation planning
- Logistics planning
- Scheduling and schedule control
- Detailed schedules for startup phase



Tunnel H7-1

Fritzens / Baumkirchen,
Austria

- Site installation planning for compressed air tunneling
- Logistics planning for compressed air tunneling
- Determination of machinery and equipment components
- Tender and procurement (ca. 7,0 Mio. EUR)
- Negotiations with suppliers
- Scheduling



Landeskriminalamt NRW Duesseldorf

- Site installation planning
- Logistics planning
- Scheduling and schedule control
- Support for claim management



City Tower Offenbach

- Site installation planning
- Logistics planning
- Scheduling and schedule control
- Design of pit, pit lining and temporary structures
- Concept for formwork and scaffolding
- Health and safety coordination



PPP-Ostregion Y-Trasse Austria

- Scheduling of design processes
- Overall scheduling
- Cost schedules
- Schedule control
- Interface management in between contractors
- Performance records for licensor and banks



BARWA Commercial Avenue

Doha, Qatar

- Site installation planning
- Tender documents and specifications for site installation



University Clinic Hamburg-Eppendorf

- Scheduling and schedule control
- Detailed schedules for startup phase



D1-Project Dubna Skala

Slowakia

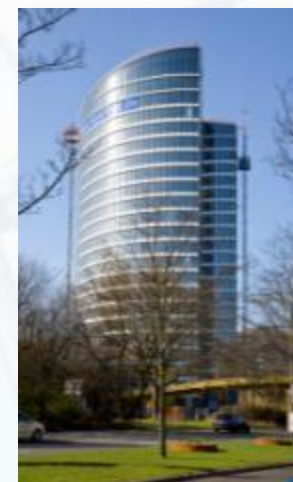
- Scheduling of design processes
- Overall scheduling
- Cost schedules
- Schedule control
- Interface management in between contractors
- Performance records for licensor and banks



Hafenspitze

Duesseldorf

- Implementation of Lean Construction
- Scheduling and schedule control
- Site installation planning



Sky Office Duesseldorf

- Site installation
- Scheduling and schedule control
- Planning of construction sequences



Main Tower Frankfurt

- Site installation planning
- Logistics planning
- Planning for dig-and-cast method
- Design of pit lining
- Scheduling and schedule control
- Concept for formwork and scaffolding
- Design of temporary structures