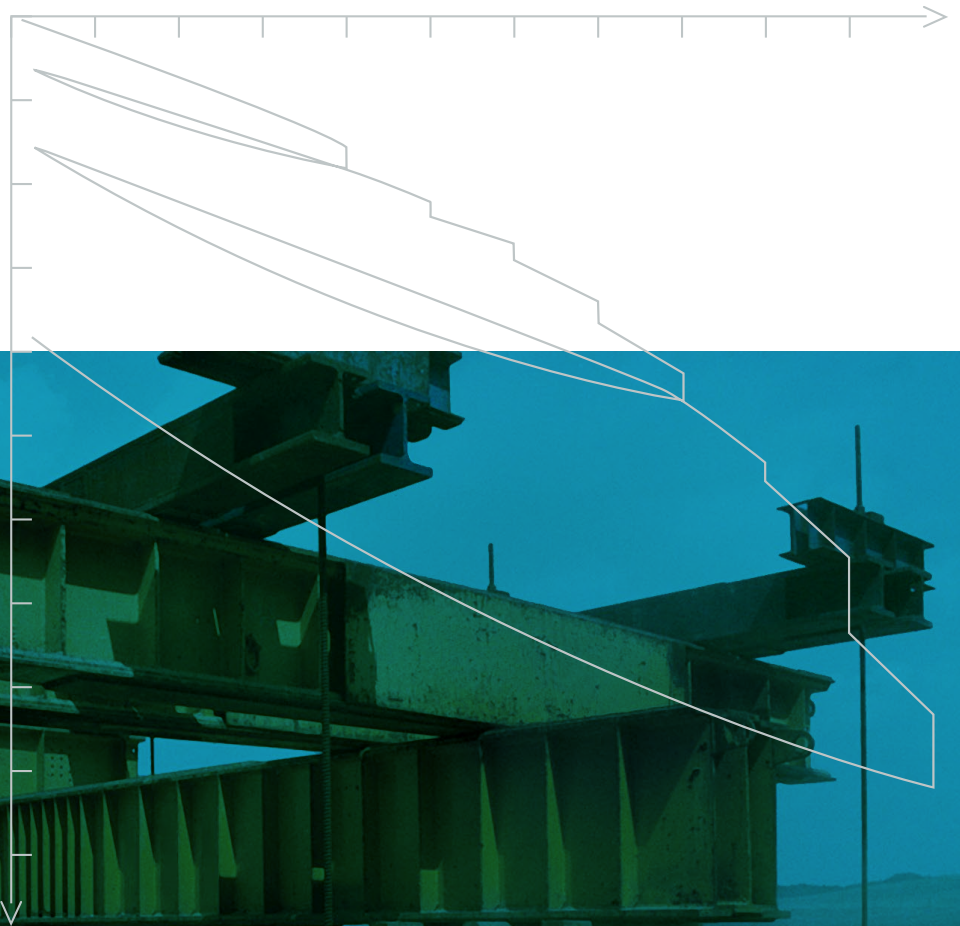




**GuD** GEOTECHNIK und  
DYNAMIK CONSULT GmbH

- Project management
- Site supervision
- Quality management
- Monitoring

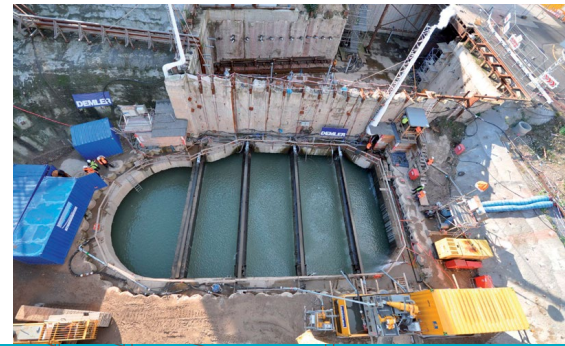


Site supervision



Excavation pit for the National Library in Berlin

Rescue pit for historical documents in Cologne



# Quality management in civil and geotechnical engineering

## Minimizing project risks

There is a common understanding in building contracts, that subsoil is treated as building material which is provided by the client for the contractor. Since the subsoil cannot be known everywhere in detail, major risk factors remain for the client. In addition, it is often very difficult to check construction elements in geotechnical engineering because they cannot be seen.

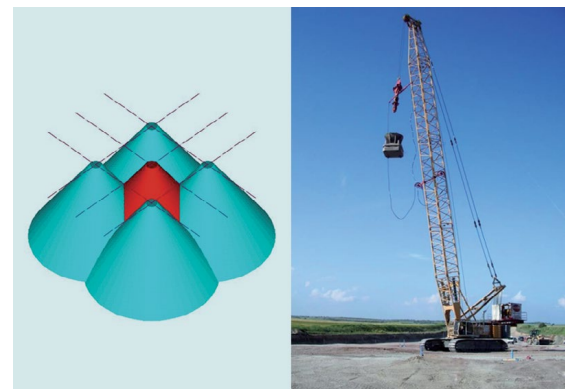
Consequently, monitoring and quality management in special geotechnical engineering is of particular importance. Due to our extensive experience with challenging national and international projects we are able to minimize the risks for the client. Our services in site supervision ensure an efficient implementation in compliance with the technical rules within the given time frame and budget.

- Delays in construction due to unsuitable construction procedures resulting from deviant geology can be largely eliminated.
- Extra costs due to expensive re-planning and changes in the necessary equipment can be avoided.
- Liability risks for damages and accidents which occur due to unexpected subsoil conditions and consequently unsuitable construction methods can be limited considerably.
- Construction risks for specified watertight retaining walls do not have to jeopardize the construction sequence.

Enlargement of berth 60 in Rostock



Dynamic compaction with visualized subsoil model

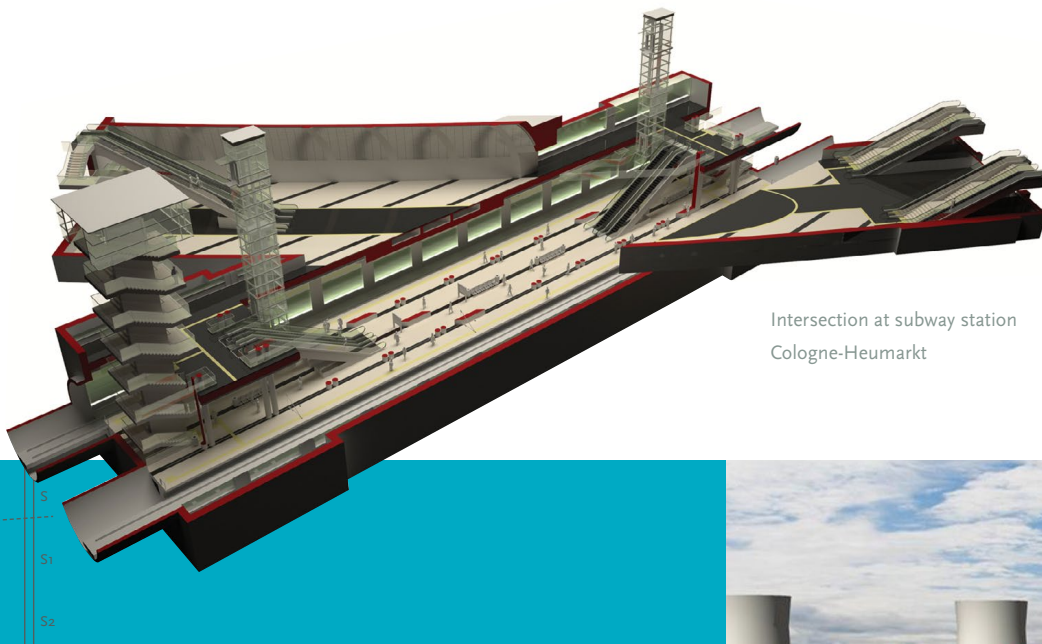


Tunnel boring machine for the waste-water disposal line in Biesdorf-Wassmannsdorf, Berlin



The Treptowers in Berlin, erected on pile – raft foundation





Intersection at subway station  
Cologne-Heumarkt



Power plant Siemens in DGEN, India, constructed  
on over 8,000 foundation piles

## Construction progress

During construction, a team of [qualified site supervisors](#) continuously monitors and synchronizes the planned construction sequence. We supervise construction progress in compliance with technical standards and regulations and examine construction safety. Thus construction deficiencies can be avoided and liability risks for accidents and damage be minimized.

## Project management

Our [project management team](#) strictly monitors construction costs and deadlines. We act as the client's executives with the aim to ensure contractual progress and prevent extra costs.

## Prevent construction defects

Our [quality management](#) controls construction performance on the basis of quality management plans and descriptions of construction procedures with tested quality control programs.

## Impede damage claims

Utilizing independent [monitoring data](#), we timely record and supervise all construction processes and establish complete documentation to decline damage claims.

## Construction records

Innovative [recording technology](#) enables us to supervise all relevant data and document to secure performance quality. We do this by employing – amongst other measures – inclinometer and extensometer measurements, joint control of diaphragm walls, diameter determination of jet grouted columns, pile integrity tests, static and dynamic pile load tests and vibration measurements.

## Expansion Abroad

For many years we have increasingly conducted engineering services in European and non-European countries and adhere closely to the specific requirements set by our clients.

Foundation of wind energy plants  
(pictured are pre-stressed anchors for  
on-shore wind energy plants)



Dynamic pile integrity tests  
with the PIT Collector from  
Pile Dynamics





Subsurface construction of a basement by jet grouting at Bellevue Castle, Berlin



Auxiliary pit for the compensation grouting under existing buildings at the City Tunnel, Leipzig



Underpinning the historic foundation of the Brandenburg Gate, Berlin



Cut-off wall for a major ecological water treatment project of the Leuna-Werke near Merseburg, Germany



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**Areas of activity:**

site investigation • waste management • soil dynamics • foundation expertise • ground improvement • excavation pits • construction management • construction supervision • preservation of evidence • soil-structure interaction • soil mechanics • dam construction • landfill construction • dynamic pile tests • earthquake engineering • earthworks • vibration control • geotechnics • geotechnical evaluations geothermics • foundation engineering • ground water modeling • harbor construction • hydrology injections • marine geotechnics • monitoring reinforcements • numerical geotechnics • pile integrity testing • quality control • pipe jacking • rehabilitation design • damage expertise • contamination modeling • vibration measurements • health and safety • tunnel construction • waterfront structures • environmental geology • underpinning • highway engineering waterworks • water retention • water regulation