

**WE
DESIGN, PLAN
AND BUILD
THE FUTURE**



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FOREWORD

The Management Board of Sellhorn Ingenieurgesellschaft (from left to right):
Dipl.-Ing. Norbert Peetz, Dipl.-Ing. Corinna Sellhorn, Dipl.-Ing. David Schnabel



Planning often goes unnoticed – until it’s missing.

For more than 60 years, Sellhorn Ingenieurgesellschaft has been developing solutions that connect, protect, and advance cities, regions, and living environments.

What drives us goes beyond technical expertise. It is the awareness that our work has a tangible impact – on mobility, the environment, and quality of life. With every project, we take responsibility for what is needed today and must remain functional in future.

We look forward to shaping solutions together with you.

Your Sellhorn Ingenieurgesellschaft mbH



This brochure contains interactive QR codes. Scan them to gain deeper insights into our company, our services, and our projects.



EXPERIENCE
THAT SHAPES THE FUTURE

Sellhorn Ingenieurgesellschaft mbH is an independent, family-owned engineering firm based in Hamburg. Since 1962, we have been designing what endures – with thoughtful engineering, economic foresight, and the ambition to approach every project as if we were the client.

We support construction projects throughout all project phases: from consulting, planning, and tendering to construction supervision, project management, and comprehensive general planning. Throughout this process, we take responsibility for quality, deadlines, and costs – solution-oriented, reliable, and in close dialogue with our clients.

TECHNICAL BREADTH,
SHARED COMMITMENT

Our expertise spans port and hydraulic engineering, industrial and site development, civil engineering structures and structural design, as well as building construction and industrial facilities. In addition, we design transport infrastructure for rail and road, along with infrastructure for airports and airfield operations – conceived in an interdisciplinary way and planned to meet the specific needs of each location.

With more than 100 employees – and growing – from over 20 nations, a wide range of perspectives enriches our work: professionally, culturally, and personally. We collaborate as equals: within our teams, with our partners, and with clients from the public sector, business, and industry.

As the largest of the 19 companies within Sellhorn Group, we combine regional responsibility with global experience. Our goal: solutions that work, structures that stand the test of time, and planning that enables the future.



OUR HISTORY

- 1962

Founded by Bodo Sellhorn

After the devastating storm surge in Hamburg, Dipl.-Ing. Bodo Sellhorn sets up his own business as a consulting engineer in the field of flood protection. The Schaartorschleuse project is the first significant reference project – and the foundation stone for Sellhorn Group of today.
- 1978

Founding of Sellhorn Ingenieurgesellschaft mbH

The company is formalised: Bodo Sellhorn founds Sellhorn Ingenieurgesellschaft mbH. It remains at the heart of the group to this day.
- 1982

New Headquarters in Hamburg

Bodo Sellhorn initiates the construction of a new office building in the centre of Hamburg, which is still the headquarter of Sellhorn Ingenieurgesellschaft today.
- 1992

Establishment of Sellhorn Group

A new structure is created with the foundation of Sellhorn Consult GmbH. Further companies follow in the fields of building services, property and transport planning – the expansion into a group of companies begins.
- 1996

Entry into the Asian Market: Malaysia

Sellhorn delivers its first projects outside Europe, including the construction of quay walls and terminals in Malaysia. This marks the beginning of the company's international project activities and expands its expertise in global hydraulic and port engineering.
- 2002

The second generation joins

Dipl.-Ing. Olav Sellhorn joins the management team and plays an active role in shaping the development of the company.
- 2006

Opening of the First European Branch in Bulgaria

A significant milestone in our international development, underscoring our commitment to growth and close client relationships.
- 2007

Change of leadership in the family

Olav Sellhorn takes over the management of the company. Sellhorn Ingenieurgesellschaft remains in family hands.

- 2009

Restructuring of the group

With the renaming of Sellhorn Consult GmbH, the reorganisation of the company structure begins – towards a modern, internationally positioned group.
- 2010

Establishing an International Presence: Beirut

Building on years of international project experience, Sellhorn reached a milestone in its company history with the founding of Sellhorn Middle East SARL in Beirut. This overseas office strengthens our proximity to partners in the Middle East and expands our range of services in the region.
- 2016

Establishing a Presence in Africa

Building on years of project experience in African countries, including Libya and Ghana, Sellhorn established Sellhorn Africa Consulting Ltd. in Tanzania, creating a permanent local presence. With this step, the Group solidifies its international focus and is now represented on three continents.
- 2017

Expansion into India

In cooperation with the Oiltech Group, a joint venture is established in India, focusing on hydraulic engineering and coastal protection.
- 2017

Strengthening Airport Expertise: Cologne

With the acquisition of A.C.E. – Airport Consulting Engineers, Sellhorn Ingenieurgesellschaft enhances its expertise in airport and airfield operations planning while simultaneously expanding its presence in the Cologne region.
- 2023

Unification Under One Roof

A.C.E. is fully integrated into Sellhorn Ingenieurgesellschaft and, since then, has been operating as Sellhorn Ingenieurgesellschaft, Cologne branch, as part of a strong and growing network of expertise.
- 2024

Opening of the location in Szczecin, Poland

This expansion strengthens the international presence and enables the combination of local expertise with Sellhorn's proven engineering competence.
- TODAY

A Globally Operating, Family-Owned Company Today

Today, Sellhorn Group comprises 19 companies worldwide. It remains family-owned – guided by foresight, responsibility, and a clear commitment to quality and societal contribution.

Become Part of Our Story! Whether as a client or an employee, help us shape the future.

A FOUNDATION FOR THE FUTURE



VALUES

STANCE THAT PROVIDES ORIENTATION

Good planning needs more than just expertise – it needs a stance. Our company policy is an expression of what we stand for: reliability, quality, and the willingness to take responsibility – for our projects, for our team, and for the society in which we build.

THE PEOPLE AT THE CENTRE OF OUR ACTIONS

Appreciation, fairness, and mutual trust characterise our cooperation – both within the team and in dialogue with partners, authorities and all project participants.

Our claim is clear: we act responsibly, think ahead – and develop solutions.

RESPONSIBILITY THAT IS TANGIBLE

We work in a structured, conscientious manner based on proven standards. Our internal processes are regularly reviewed and continuously improved. In this way, we create security – for our clients as well as our employees. Our management systems are certified in accordance with recognised standards and form the basis for stable, future-proof work.

Sustainability is not an add-on for us, but a prerequisite. We plan with foresight, think in terms of conserving resources, and design solutions that stand the test of time – ecologically, economically, and socially.



GOALS

GOALS THAT SHOW EFFECTIVENESS

Good planning begins with the willingness to take responsibility – for what matters today and for what will be sustainable tomorrow. In a time of growing demands, we consistently orientate our actions towards sustainability – methodologically sound and entrepreneurially forward-looking.

Our planning takes ecological effects, life cycles and climate targets into account right from the start. For us, sustainability is not an option, but a prerequisite – both professionally and ethically.

Our team is essential for this. Our knowledge grows with every task – supported by interdisciplinary dialogue, targeted training and a corporate culture that makes quality possible rather than managing it.

We grow with moderation – and with purpose. Our goals are not an end in themselves. They are our contribution to a built environment that works, connects – and remains open for tomorrow.

STANDARDS THAT CREATE CONFIDENCE

To ensure that our goals have an impact, we work based on binding standards. We invest in digital planning methods, model-based processes and data-based decision-making.

Our processes are compliant with the requirements of public clients in accordance with German public procurement law (VOB) and comparable international standards. Our claim to quality, environmental responsibility and occupational safety is systematically anchored – through certifications in accordance with ISO 9001 (quality management), ISO 14001 (environmental management), legally secured occupational health and safety and our prequalification for public clients.



As an active member of the German Association of Consulting Engineers (VBI), of the German Sustainable Building Council (DGNB), of the DWA and other specialist bodies, we are part of a strong network. In this way, we combine up-to-date expertise with stance and responsibility.

CONNECTED AND COMMITTED – MEMBERSHIPS AND ASSOCIATIONS



WE PLAN THE FUTURE. AND TRUST.

Whether it is about the economic and innovative strength of a location or about the great challenges of mankind such as mobility, resource protection and climate change: Sellhorn Ingenieurgesellschaft supports national and international efforts to tackle urgent tasks.

The requirements for sustainable planning and construction have risen continuously in recent years. Sellhorn Ingenieurgesellschaft has permanently expanded its range of services in the past in order to offer you first-class quality and complex solutions in all fields of activity. However, one thing has remained the same since the company was founded: we feel personally responsible for your satisfaction and your trust in our performance.

In all phases of planning and realisation, we see ourselves as a partner to the client. We are committed to the highest level of integrity and objectivity in every phase.

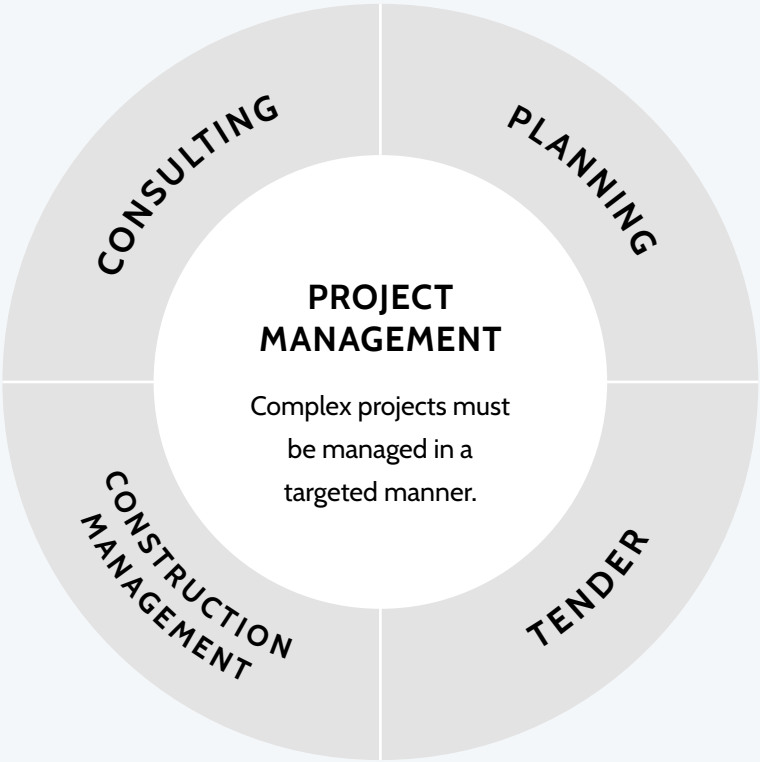
We are independent engineers, project managers and service providers. We turn your project goals into our own and live by our highest principles:

**OPENNESS, HONESTY
AND RELIABILITY.**

OUR SERVICES

Every project starts with an idea.

Planning in all areas of civil engineering.

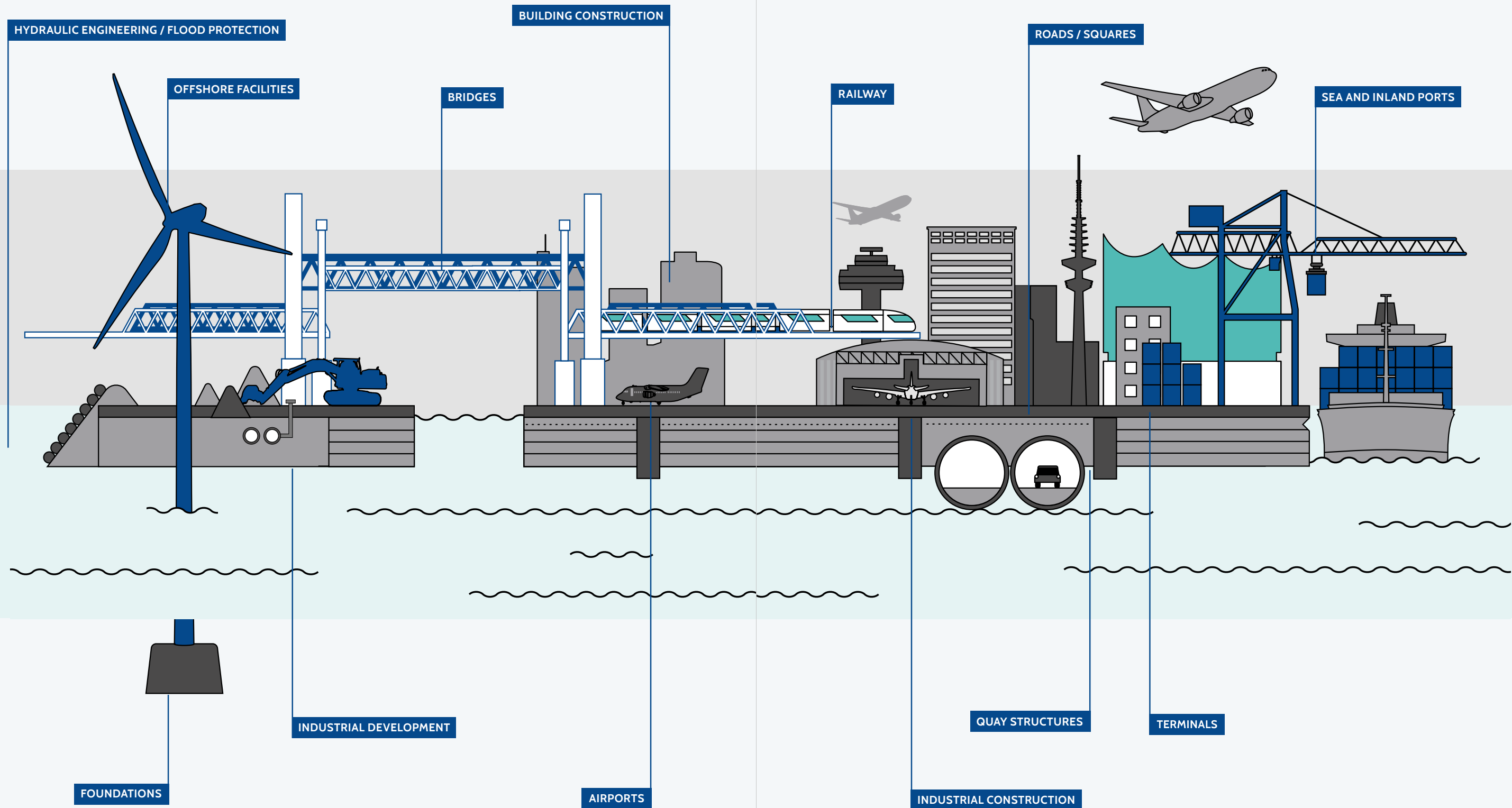


Assumption of all engineering services during construction.

Preparation and participation in the awarding of contracts for construction services.

CONSULTING	PLANNING	TENDER	SITE SUPERVISION MANAGEMENT	PROJECT MANAGEMENT
Preliminary studies	Civil engineering	Public procurement procedures	Overall Construction Supervision	General planning
Preliminary investigations	Traffic facilities	Restricted procurement procedures	Construction supervision	Planning audit
Feasibility studies	Structural design	Functional specifications	Cost control	Scheduling
Cost indication	Outdoor facilities	Service description	Schedule control	Interface coordination
Variant investigation	Buildings	Contract conditions	Supplement management	Quality assurance
Expert opinion	Earthworks	Obtaining tenders	Health and safety coordination	Moderation
Examination and Evaluation	BIM (Building Information Modelling)	Examination and evaluation of tenders	Property documentation management	Construction management
Eligibility	Physical and numerical modelling	Bidder interviews		Technical support
Approval Procedure	Simulation	Contract negotiation		Planning approval process
		Award recommendation		Approval procedure

OUR RANGE OF EXPERTISE





“For us, port projects and the development of ports mean planning infrastructures that reliably connect the economy and the environment”

DIPL.-ING. NORBERT PEETZ
Managing Director

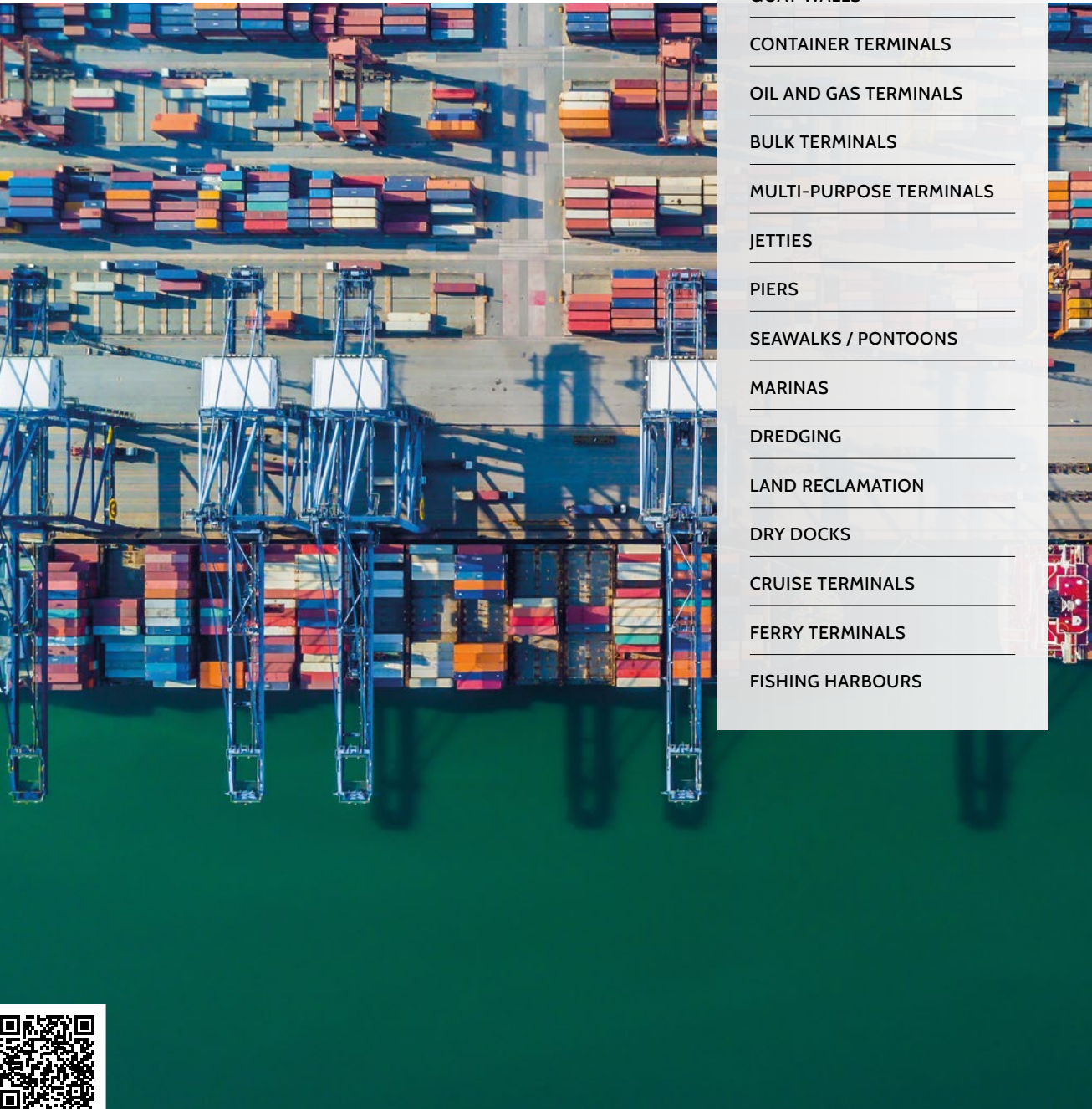


SEA AND INLAND PORTS

Over 10 billion tonnes of the global trade in goods are transported by sea. Ports are therefore the backbone of the global logistics chain.

The planning of ports and terminals for the handling of containers, general cargo and bulk goods, as well as roll-on/roll-off cargoes, is one of our core businesses. This also includes cruise terminals, marinas

and fishing harbours. Based in the immediate vicinity of the port of Hamburg, we have been travelling the world together with our customers since our company was founded. We plan projects on all continents in the maritime and inland areas. In doing so, we ensure fast and problem-free arrival, departure and onward transport through efficient hinterland connections.



SEA PORTS

INLAND PORTS

QUAY WALLS

CONTAINER TERMINALS

OIL AND GAS TERMINALS

BULK TERMINALS

MULTI-PURPOSE TERMINALS

JETTIES

PIERS

SEAWALKS / PONTOONS

MARINAS

DREDGING

LAND RECLAMATION

DRY DOCKS

CRUISE TERMINALS

FERRY TERMINALS

FISHING HARBOURS

HYDRAULIC ENGINEERING AND FLOOD PROTECTION

Flood protection levels are being raised in coastal regions around the world. In Hamburg, for example, they have been raised by around 2 metres since the 1960s.

Since the company was founded, Sellhorn Ingenieurgesellschaft has planned a large number of structures for national and international flood protection and has been involved in their realisation. We work closely

with universities and other research institutes to design effective coastal protection measures. The boundary conditions for hydraulic engineering and flood protection are diverse and vary from region to region. What all projects have in common, however, is the goal of effectively protecting the population and the assets created. As a Hamburg-based company, we are aware of this every day.



FLOOD PROTECTION WALLS

POLDERS

DIKES

LEVEES

BREAKWATERS

BARRIERS / GATES

BED PROTECTION

SCOUR PROTECTION

DECK STRUCTURES AND SHORE PROTECTION

DIKE GATE





“New urban spaces are created on solid foundations — technically precise, functionally well thought out, and planned with foresight for the future.”

DIPL.-ING. JAN H. MEYER
Authorized Signatory





*“We design airports
and airfield operations
areas that combine
safety, efficiency, and
performance.”*

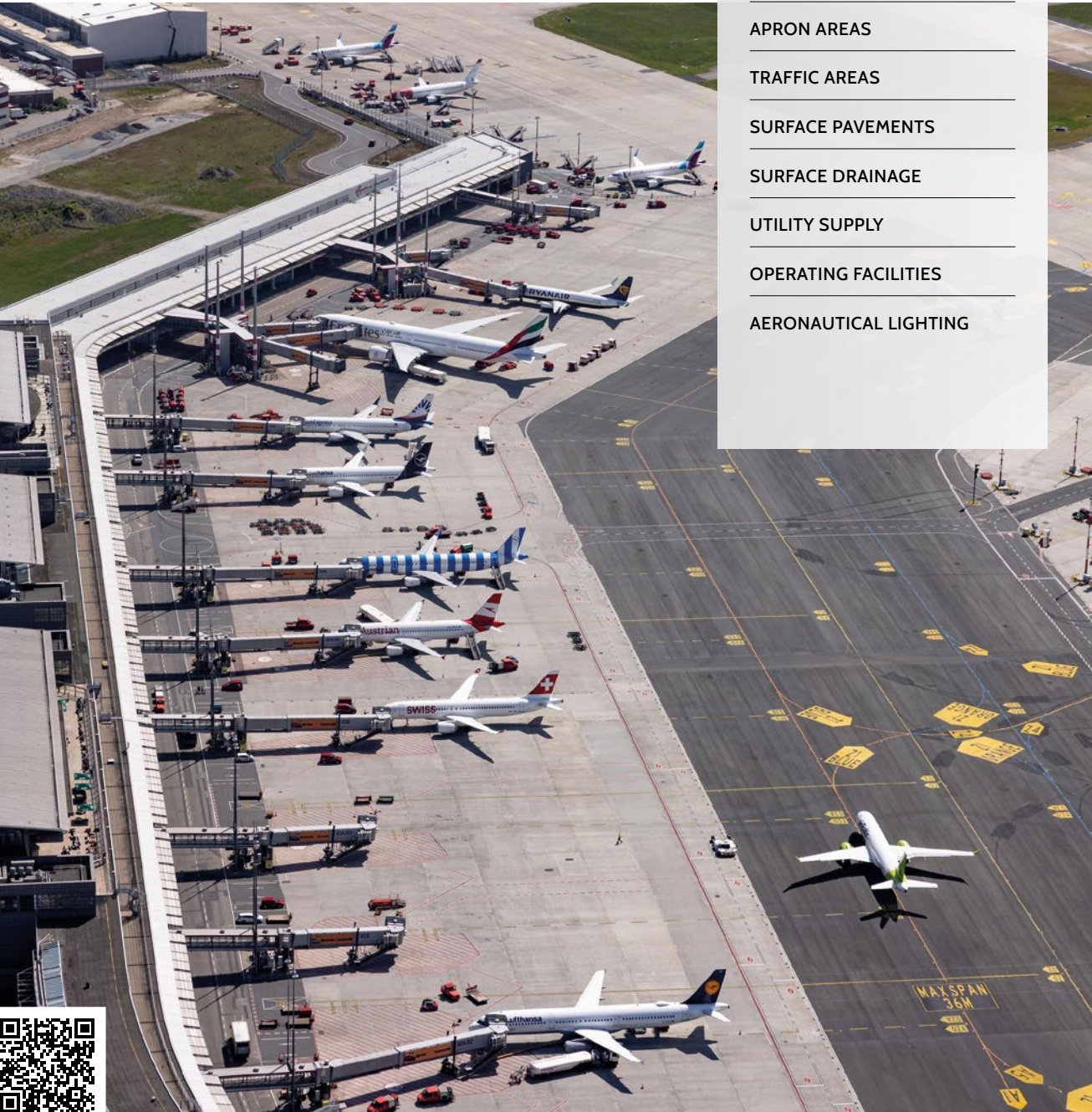


DIPL.-ING. PAUL MEHLEM
Branch Manager, Cologne

AIRPORTS

We plan civil and military airports. Over 4.3 billion passengers are transported world-wide every year, with around 38 million take-offs and landings. In addition to the structural requirements for runways, taxiways and aprons, we also plan the associated civil engineering works and technical equipment for aircraft up to the A380. In doing so, we consider the airport-specific operating procedures and the requirements

of the International Civil Aviation Organisation (ICAO). When monitoring and coordinating the construction works, it is important to deliver the customer's requirements in terms of quality. When monitoring and coordinating the construction works, it is important to deliver the customer's requirements in terms of quality, flight safety and deadlines with precision.



INDUSTRIAL DEVELOPMENT

Drinking water, wastewater, firefighting water, rainwater, electricity, gas, IT and much more: in the field of industrial and site development, specific area layouts with complete utility supply must be planned. Requirements and interfaces from operation and production must be

coordinated and qualified construction supervision must contribute to the success of the project. Whether industrial customers or logistics companies, we look forward to the challenge of interdisciplinary factory planning and the planning of the area layout for terminals or commercial developments.



*“We develop future-ready
industrial and commercial
sites — functionally designed,
efficiently executed, and
sustainably planned.”*

DIPL.-ING. DAVID SCHNABEL

Managing Director





“In building and industrial construction, we design structures that are functional, economical, and aesthetically pleasing – robust, resilient, and long-lasting.”



DIPL.-ING. CORINNA SELLHORN
Managing Director

BUILDING AND INDUSTRIAL CONSTRUCTION

The individual requirements of our projects are diverse, ranging from logistics centers and production halls to office buildings and hotels; from new construction and renovations to heritage conservation. Whether it involves new planning, building on existing

structures, or expanding existing buildings and halls, our clients and their requirements form the basis of our architectural and engineering services in building and industrial construction. We also use visualisations to support the planning process.

INDUSTRIAL HALLS

LOGISTICS CENTERS

WAREHOUSE BUILDINGS

PARKING STRUCTURES

HOTELS

OFFICE BUILDINGS



BRIDGES

Whether for road or rail traffic, over waterways or roads, bridges are almost always unique and fascinating structures. From tendering and planning to supervision during construction, we are involved in every step. Bridges come with a wide range

of requirements regarding load, foundation, geometry, and aesthetics. With our expertise, we help design and deliver these demanding structures, ensuring a secure foundation and a successful project.

FIXED BRIDGES

LIFT BRIDGES

BASCULE BRIDGES

HIGHWAY BRIDGES

UNDERPASSES

RAILWAY BRIDGES

BRIDGE FOUNDATIONS

BRIDGE INSPECTION





“For us, civil engineering means designing structures and foundations that perfectly combine technical performance, cost-efficiency, and aesthetics.”

DR.-ING. UWE PFEIFFER
Authorized Signatory



RAIL TRANSPORT

Over 400 million tonnes of goods are transported via Germany's rail network — 40 % more than 20 years ago. In addition, nearly 3 billion passenger journeys take place each year. A highly efficient rail network is essential for both freight and passenger traffic.

We support the connection of industrial and logistics sites to the rail network through new construction or reactivation. Furthermore, we combine transport planning and civil engineering in-house, managing railway structures and related engineering tasks from a single source. Step by step, we guide your projects to success.

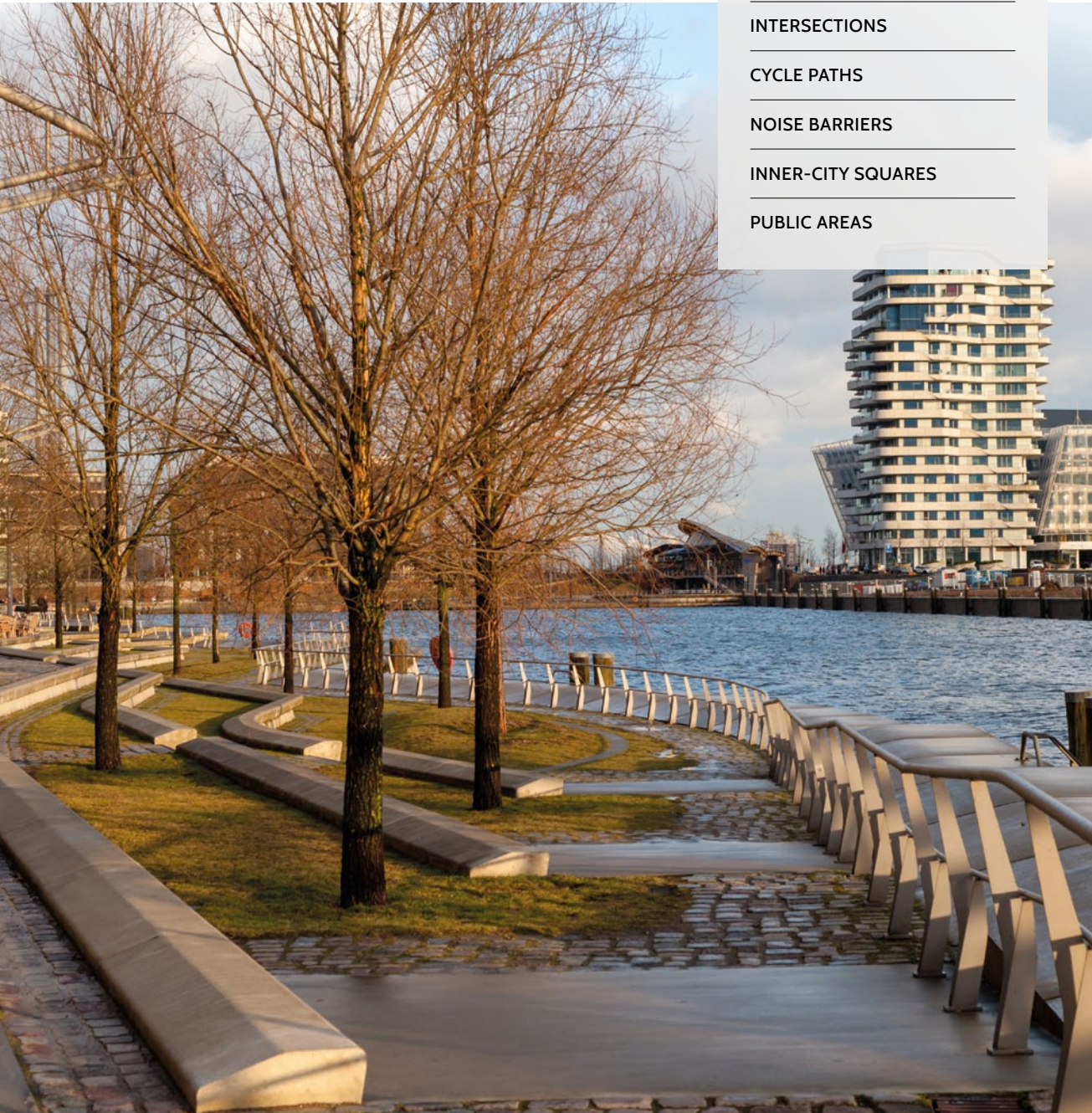


- TRACK SYSTEMS
- ALIGNMENT
- TRACK SUPERSTRUCTURE
- PLATFORM FACILITIES
- TRAIN FORMATION FACILITIES
- RAIL CONNECTIONS
- FREIGHT TERMINALS
- MARSHALLING YARDS
- RAIL OPERATIONS

ROADS, PATHS, AND SQUARES

In adapting mobility concepts, paths and squares, the design of open spaces and urban traffic areas — often highly visible to the public and utility providers — focuses on enhancing the quality of stay. We support

you with the essential engineering and traffic planning tasks for redevelopment and new construction, including the planning of inner-city streets, squares and pathways.



- ACCESS ROADS
- INDUSTRIAL ROADS
- TRAFFIC AREAS
- INTERSECTIONS
- CYCLE PATHS
- NOISE BARRIERS
- INNER-CITY SQUARES
- PUBLIC AREAS



“We design transport and railway infrastructure that is reliable, future-ready, and aligned with the demands of modern mobility.”



DIPL.-ING. LUTZ GERLACH
Department Head



CANAL CONSTRUCTION

Ongoing urbanization, with its increased demand for living space, as well as the development of new industrial sites, has significant consequences for underground infrastructure. Whether for rainwater or wastewater, the maintenance, new construction, expansion and renovation of sewer networks pose a particular challenge in urban areas. To ensure reliable disposal, the aim is to create a technically flawless underground infrastructure, adapted to the increased requirements of our environment. We help you achieve this goal with our planning team and our certified sewer rehabilitation consultants.



EARTHWORKS AND EXCAVATIONS

Major earthworks and the construction of excavations for buildings, foundations, or sewer construction are challenging topics in geotechnics and foundation engineering. In almost all of our projects, civil engineering and specialized foundation engineering play an important role. Together, we will find the right solution for your project as well.

OFFSHORE WIND ENERGY

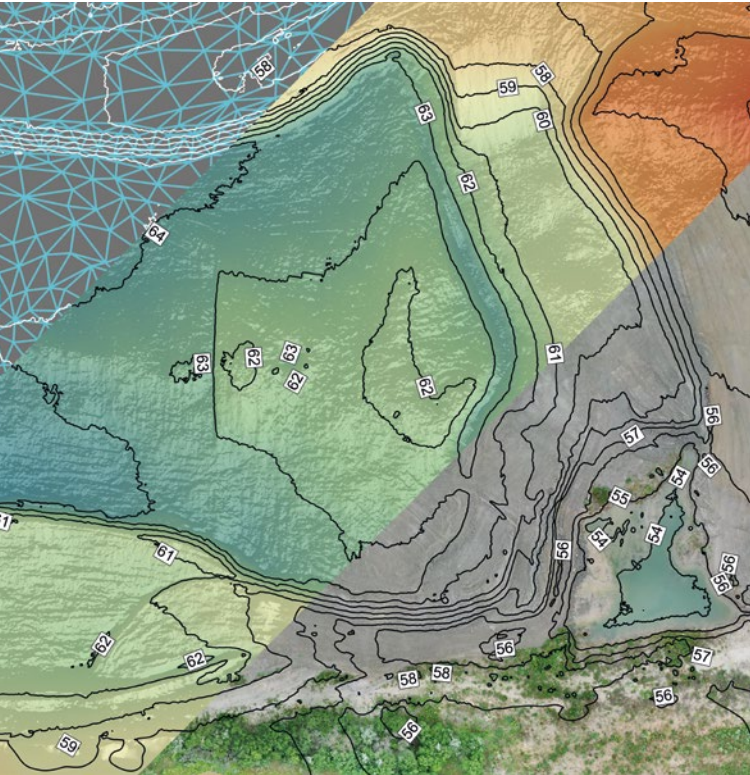
Climate targets. Energy transition. Renewable energies. Sustainability. Political buzzwords for the good of the planet and therefore humanity. In fact, political will has turned wind energy into an economically competitive product, with special challenges for planning and installation in the offshore sector. With our experience in hydraulic engineering and our proximity to the coast, we have been supporting the implementation of these offshore projects for many years.



TROUGH AND TUNNEL STRUCTURES

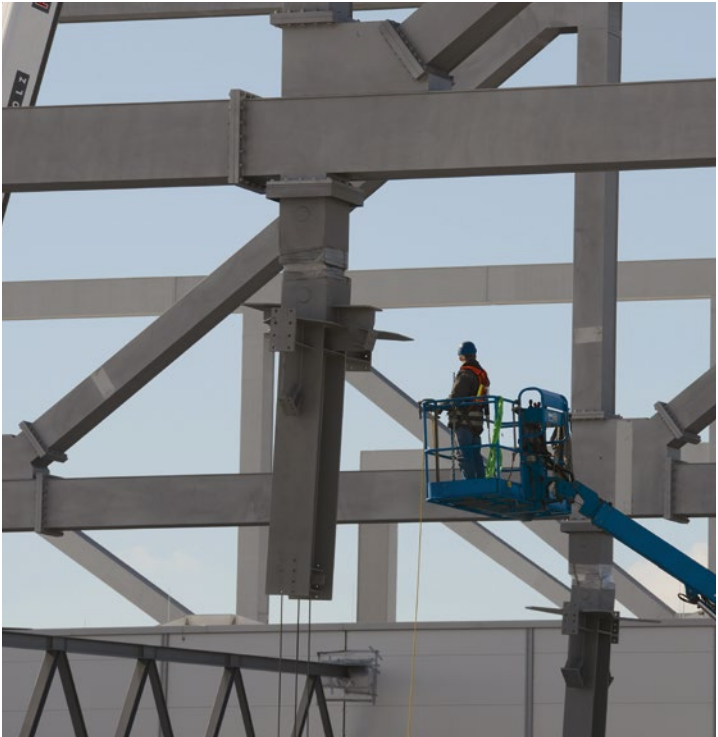
Tunnels and subways combine various areas of engineering – from traffic planning, earthworks, and geotechnics to civil engineering and specialised foundation engineering, as well as associated structural engineering. Trough and tunnel structures are not only necessary in mountainous areas but can also be found in the flat countryside and in the urban infrastructure areas. Disciplines we master with our team.





UAV (UNMANNED AERIAL VEHICLE)-DOCUMENTATION

The use of UAVs is an important tool in the preparation and documentation of construction projects. Planned flight missions allow us to record current and future construction sites and document them with detailed photos. Our field of application also includes the surveying of construction sites and the recording of buildings for the planning of renovation measures. Our employees are specially trained and certified for this purpose.



STRUCTURAL DESIGN

Structural design plays a key role in all construction projects. It is about nothing less than the stability and serviceability of planned and built structures. Consequently, a high degree of responsibility is a prerequisite for the success of your project. We have a strong team ready to take on this responsibility.

MONUMENT PROTECTION

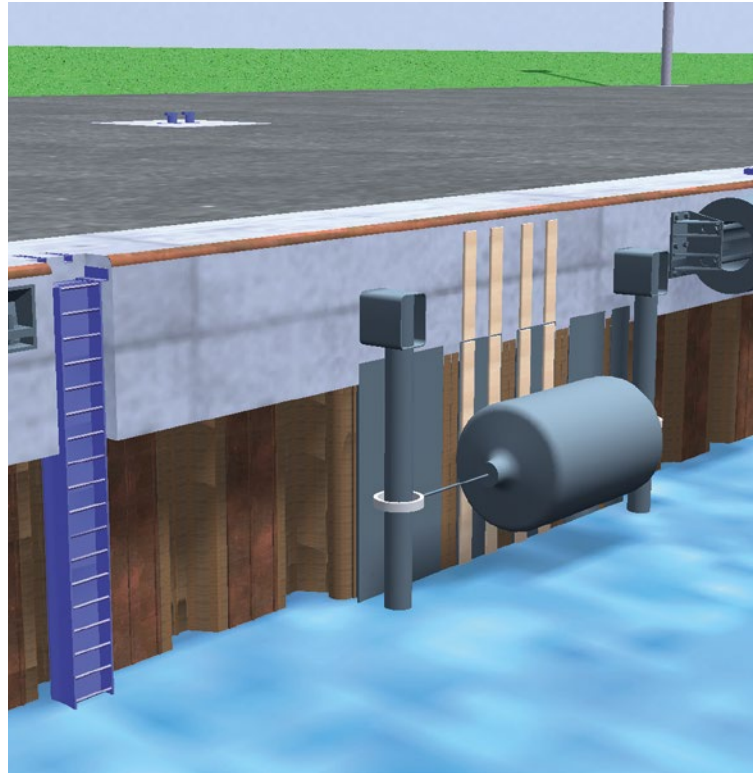
Our planning services, processing and construction of properties are not limited to technical buildings. For over two decades, we have been successfully involved in the maintenance and renovation of listed buildings and facilities, both secular and sacred. Some of the most outstanding projects in this field in the recent past include the completed general refurbishment of the main church of St. Michaelis and the construction of a representative visitor centre for this landmark in Hamburg.



STRUCTURAL INSPECTION

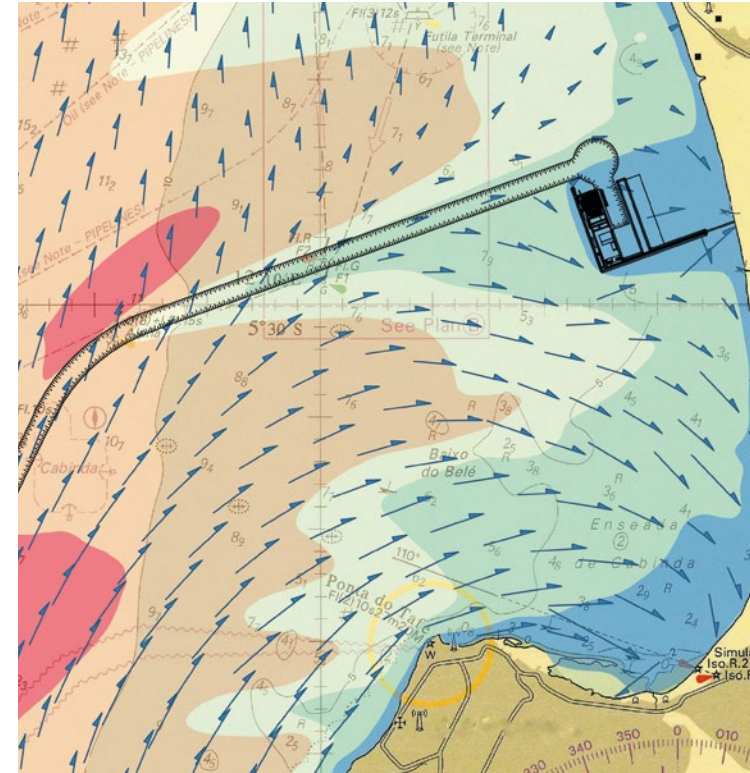
To ensure the stability, traffic safety and durability of structures, they must be inspected regularly. In particular, bridges, tunnels, troughs and retaining structures, as well as engineering structures requiring individual proof of stability, are subject to special inspection requirements. Our employees are certified as structural inspectors in accordance with DIN 1076.





BIM

Building Information Modelling (BIM) – the future of networked planning. BIM is much more than 3D modelling. The aim is to create a virtual intelligent building model, that can be used from implementation through planning to dismantling. Special challenges exist in the standardisation (e.g. openBIM). Sellhorn Ingenieurgesellschaft is active in various BIM working groups and leads multiple pilot projects to analyse and improve the application in civil engineering, hydraulic engineering and structural engineering.

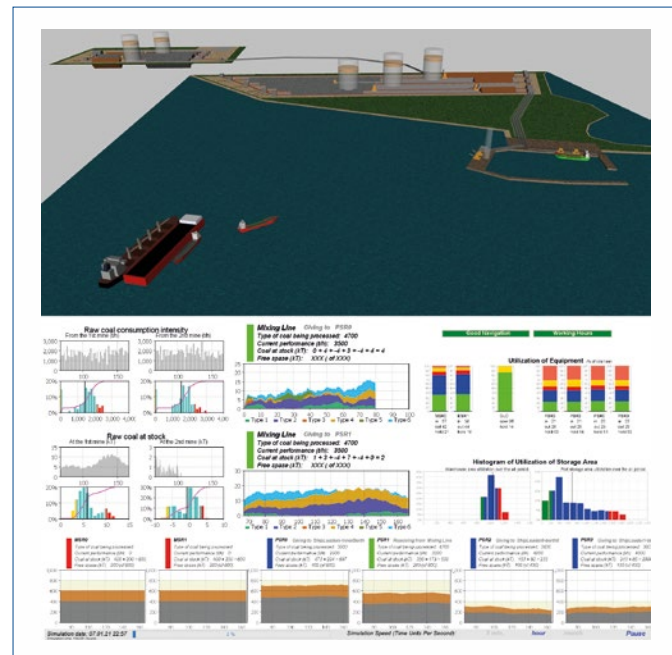


HYDRO- NUMERICAL MODELLING

The simulation of coastal dynamic processes such as waves, currents or sediment transport is nowadays an indispensable component of maritime infrastructure planning. The simulation of such processes in a hydrodynamic numerical model enables cost-efficient and demand-oriented planning. Significant improvements can be achieved, particularly in the optimisation of protective structures such as breakwaters and dykes. We support our customers with such issues directly or in cooperation with universities and renowned research institutions.

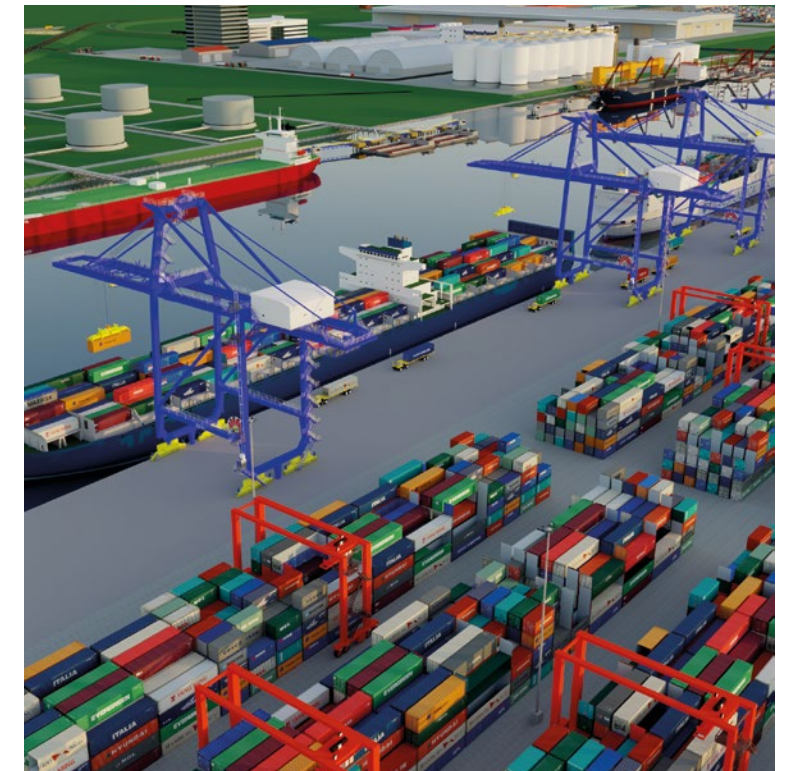
PROCESS SIMULATION

With the help of modern simulation software, processes from the areas of port management, industrial production, logistics and transport, as well as many others, can be realistically modelled. The use of flexible modules allows adaptation to individual requirements in order to simulate specific use cases – for example, loading processes in a container port, the movement of goods in a logistics warehouse, the transport of bulk goods via a conveyor belt and subsequent export by bulk carriers. By varying the input parameters in a targeted manner, different scenarios can be modelled. This enables us to support our customers in the decision-making process for their projects with analyses of financial feasibility, system stability, forecasts and crisis scenarios.



3D-RENDERING

Our clients' projects are often large-scale infrastructure projects that generate both public interest and concern. In addition to civil engineering, there are many other aspects and stakeholders involved in such projects: political, legal, economic, social, and environmental issues. Realistic 3D models can help to familiarise these stakeholders with a project to get a clear understanding of its features. With our powerful, dedicated rendering workstation, we offer our customers exactly that: a glimpse into the future.



INFRASTRUCTURE AND SITE PLANNING



CONTAINER TERMINAL BURCHARDKAI (CTB)

Hamburg

The Burchardkai Container Terminal (CTB) is the largest terminal of HHLA in the Port of Hamburg. Since 2005, Sellhorn has been involved in planning the conversion of the terminal from a conventional VanCarrier yard to an automated block storage system. The 29 container storage blocks are being gradually modernized and rebuilt. Within the block storage system, state-of-the-art fully automated cranes operate using intelligent stacking and pre-sorting software. In the future, the handling process from ship-to-shore cranes to the block storage will also be fully automated, requiring complex safety systems to delineate the automated areas.

In addition to the block storage system, Sellhorn supports other related projects associated with the expansion, including flood protection, utility supply, surface rehabilitation, traffic infrastructure, and more.

ADAPTATION OF THE VOLKSWAGEN PLANT EMDEN FOR ID MODELS

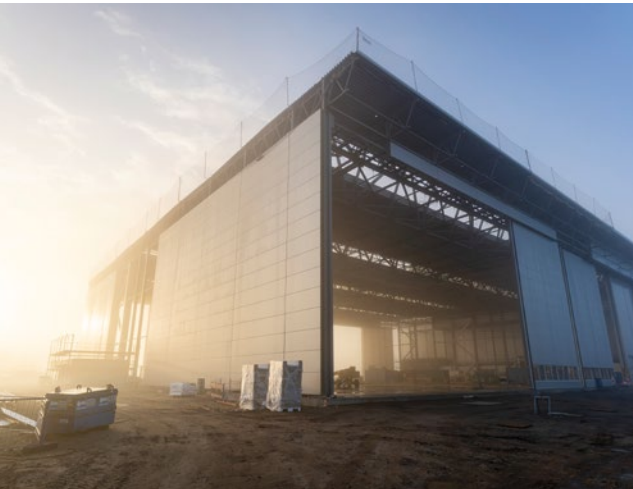
Emden

As part of measures for electromobility, the Volkswagen Plant in Emden has been adapted since 2019 to meet new production requirements. Since 2022, ID.4 vehicles have been manufactured at the site.

The implementation of this project requires extensive modifications to the plant's infrastructure. During site preparation, light-weight halls, parking, and logistics areas were demolished, a firefighting water pond was filled in, and the test track was adjusted. Special attention had to be paid to the ground conditions: the silt and clay soils present in the area have low bearing capacity, requiring complex foundation solutions and comprehensive rainwater management including retention basins and ditches.



INDUSTRIAL AND PLANT PLANNING



AIRBUS PLANT

Hamburg

For more than four decades, Sellhorn has been actively involved at Airbus' main German site through various plant expansions and refurbishment measures. This has included the planning and construction supervision of multiple hangars for the production of the A380 and A320 aircraft series, as well as adjacent aprons, taxiways, roads, parking areas and associated utility infrastructure.

The planning services within these projects require versatile expertise in civil and road engineering, airport construction, traffic planning, hydraulics, geotechnics, and safety engineering. In addition to the specialist areas of general planning, Sellhorn applies modern concepts of interdisciplinary plant planning in these projects, such as 3D collision checks and roll and drive simulations.

OLYMPUS MEDICAL PRODUCTS PORTUGAL

Medical Device Repair Center

Olympus, a Japanese manufacturer of opto-digital high-tech equipment, planned the development of new service and production facilities at a new plant in Coimbra, Portugal, and commissioned Sellhorn Ingenieurgesellschaft with the overall planning of the facility. The site serves as the company's European repair center for medical-technical devices, making it one of the largest and most modern facilities of its kind in Europe. The facility is located within the newly designated iParque Business Park, which offers excellent transport and utility connections and is strategically situated in central Portugal between Porto and Lisbon.

Sellhorn supported Olympus throughout the entire planning and construction process, from site preparation and tendering to construction supervision and project management. In addition, together with a Portuguese partner office, Sellhorn assisted with the approval process and coordination of local specialist planners.



CONSTRUCTIVE CIVIL ENGINEERING

NEW CONSTRUCTION OF RETHE AND KATTWYK BRIDGES

Hamburg

As combined road and railway bridges, the movable Rethe and Kattwyk Bridges serve strategic connecting functions in the Port of Hamburg. Due to their age and the need to separate road and rail traffic, both bridges were either replaced or expanded with new structures. For the Rethe Bridge, a parallel alignment for road and rail traffic was realized using a four-leaf bascule bridge, constructed while rail, road, and ship traffic continued to operate. The Kattwyk Bridge, on the other hand, remains in use for road traffic and was expanded with a new lift bridge for rail traffic. Additional adjustments were made to the shipping channel, navigational and protective facilities, and the range light system. The foundation of the Kattwyk Bridge was constructed using a compressed-air caisson down to NHN -30 m in the Süderelbe.



DOUBLE-TRACK EXPANSION OF THE AKN

Hamburg

The local rail line A1 from Hamburg to Kaltenkirchen, operated by AKN Eisenbahn GmbH, was expanded to double track over a length of more than 20 km. At several critical sections, the line was routed through cut-and-cover structures in a depressed alignment or carried over other transport routes by bridges. The new stations at Henstedt-Ulzburg and Eidelstedt-Zentrum are located in a lowered position using cut-and-cover structures. Under the previously bisected town center of Henstedt-Ulzburg, a 630-meter-long railway tunnel was constructed using diaphragm wall construction. In Hamburg-Eidelstedt, the AKN was grade-separated into the DB AG S-Bahn network using flyover structures.

As part of the overall planning, Sellhorn Ingenieurgesellschaft was responsible for designing both the construction stage and final alignments. For the planned additional electrification of the line and associated upgrades, we also prepared the planning approval documents for both Hamburg and Schleswig-Holstein.



GRASBROOK DISTRICT

Hamburg

In the heart of Hamburg, the future Grasbrook district is being developed from a port-characterized area into an innovative and sustainable urban district with residential, commercial, and office spaces.

The approximately 5-km-long waterfront of the future district, with its existing structures such as quay walls, embankments, and slopes, must be documented, assessed, and planned in coordination with the site development. The tidal influence of the Elbe, as well as heritage-protected constructions and valuable habitats for flora and fauna, must be taken into account.

The goal is to preserve and enhance existing waterfront structures and integrate new waterfront constructions into the urban planning.

Another planning assignment includes over 50 civil engineering structures within the open spaces of the Grasbrook district. The ramp structures, staircases, and retaining walls bridge the roughly 5-meter height difference between the promenade level at the waterfront and the storm-surge-protected district level. These are executed to a high design standard in accordance with the specifications of the landscape architect.



QUAY WALL ZOLLKANAL

Hamburg

In front of Speicher P on the southern Zollkanal, within the core zone of the UNESCO World Heritage site “Speicherstadt and Kontorhaus District with Chilehaus,” lies a roughly 170-meter-long quay wall that is around 130 years old. Significant damage in the form of cracks, settlements, and deformations was observed on the quay wall. Given the existing damage, rehabilitation of the quay wall became necessary. This was carried out using a prefabricated sheet pile wall with back anchors as well as a quay head constructed of reinforced concrete with a facing shell.

In addition to designing the civil engineering structures, Sellhorn Ingenieurgesellschaft is responsible for construction management and site supervision during execution.



INTERNATIONAL PROJECTS



AUDI MÉXICO

San José Chiapa

Between 2013 and 2016, an Audi Group production facility was constructed next to the town of San José Chiapa in the state of Puebla in Mexico. The Audi Q5 has been manufactured here since the end of 2016 and sold worldwide.

The construction site is located in the Mexican highlands, in the eastern area of the Trans-Mexican Volcanic Belt, which is why taking into account the frequency and intensity of earthquakes played an important role in the planning process. In addition, the site was backfilled by an average of 3.5 metres over an area of around 465 hectares in order to create homogeneous ground conditions for the various plant areas.

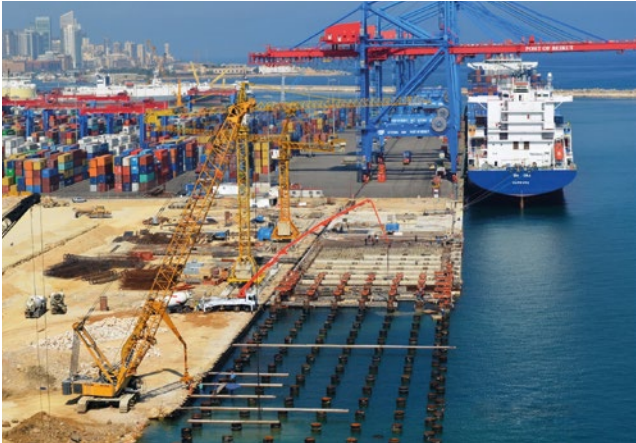
To protect the environment, special emphasis was placed on rainwater recovery for the 7-month dry period, and an artificial lagoon with a capacity of around 600.000 m³ was created to supply the plant.



AIRBUS TIANJIN

People's Republic of China

From 2007 to 2009, an aircraft factory with all the necessary production and infrastructure facilities was built on a selected site directly next to the airport in the Chinese city of Tianjin. A net usable area of approximately 70 hectares was available for the construction of halls and operating areas. The site comprises three major production halls where large components are assembled, aircraft are painted and other assembly work takes place. In addition, seven buildings and technical facilities for testing and delivery were constructed, as well as five non-production buildings such as offices, a canteen and a reception building. A total of approx. 260,000 m² of paving was constructed in concrete, asphalt and concrete block paving.



CONTAINER TERMINAL BEIRUT

Lebanon

Sellhorn supported the expansion of the container terminal in Beirut from the concept and design phase through to realisation. To this end, the quay wall was extended by 500 m, and an additional 15 hectares of terminal area was filled in and paved. The construction of the quay wall as a jointless pile grid structure in a seismically highly active zone, as well as the pile foundations and land reclamation in soil with low bearing capacity, posed particular challenges.

Following the successful completion of the extension in 2016, we are still involved in various projects in the harbour and the region and operate a local office for this purpose.

PORT OF CAIO

Angola

The first deep-water port has been under construction since 2015 in the Angolan exclave of Cabinda – a milestone for connecting the region, whose development has been hampered for decades by high logistics costs, despite its wealth of raw materials. Sellhorn has been involved in designing and supporting the new harbour from the initial concept studies through to construction supervision.

Due to the extremely shallow seabed, the harbour is designed as an offshore terminal. To this end, a 15 km-long access channel will be dredged, 2 km of connecting embankment will be constructed, and approx. 50 hectares of land will be filled in. As part of the harbour, a special economic and free trade zone is being created inland.





“In international port construction, we deliver complex infrastructure projects — precisely planned, reliably executed, and aligned with global requirements.”

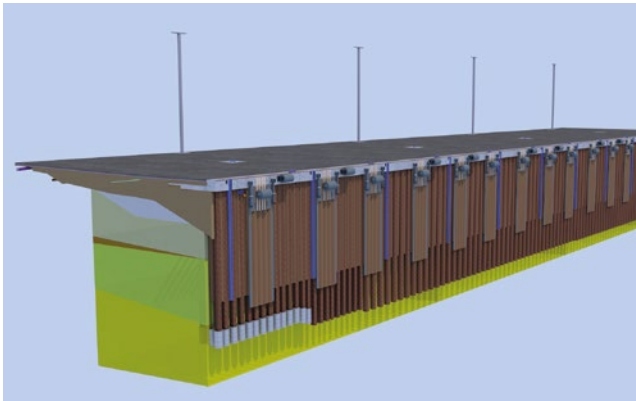
SPECIAL PROJECTS

LARGE SHIP BERTH EMDEN

Ostfriesland

Increasing handling figures and the steadily growing ship sizes in the port of Emden require a capacity expansion with a new large ship berth. This is planned between the existing berths Emspier and Emskai as a 'gap closure' with a quay length of approx. 340 metres. For ships with a large draught, a mooring basin with a water depth of currently around 14 m is planned. The resulting difference in ground level of around 21m leads to a highly stressed quay construction consisting of a combined sheet pile wall with a deep-founded shielding slab. The quay slab is planned as a jointless construction.

From 2015 to 2021, the project was developed by Sellhorn Ingenieurgesellschaft in work phases 1 to 7. A significant part of the planning was carried out entirely using BIM software.



OFFSHORE WIND

Worldwide

The conversion of the global energy supply from fossil fuels to renewable energy sources is one of the great challenges of our time. Sellhorn has been supporting the development and realisation of offshore wind projects for more than a decade. We are involved in offshore wind farms across Europe, including Germany, the Netherlands, Poland, France and the UK, as well as internationally in Japan and the USA.

We develop projects and implementation concepts for our customers, draw up schedules, ensure documentation, and monitor proper construction activities on site.

MAIN CHURCH ST. MICHAELIS

Hamburg

For more than 20 years, Sellhorn has been supporting the Main Church of St Michael's with various engineering tasks for the renovation and preservation of the historic sacred building. From 2005 to 2010, the interior and the roof of the nave, as well as the crypt below the church, were extensively renovated. In 2016, two additional heavy hour bells were installed to restore the historic bell ensemble. Prior to this, the load-bearing capacity and vibration behaviour of the bell tower had to be checked, and several structural elements had to be renovated or reinforced. Most recently, the new visitor centre was completed in 2022, preserving the listed masonry façade. By relieving the tower hall, an appropriate sacred ambience was restored there.

Carrying out this work during ongoing visitor and church operations always presented the planners with special challenges due to the historic building fabric and the limited existing documentation.



A380 STANDSTILL DEVICE

Hamburg

Engine test runs for new aircraft pose special challenges to the structural environment. In order to meet the associated risks and extreme influences, Sellhorn was commissioned to plan the areas and infrastructure connection for a test stand facility, from the initial evaluation to construction supervision.

The area within the stand facility was designed as a concrete sealing surface for the retention of water-polluting substances, in accordance with the requirements for 'LAU facilities' (facilities for the storage, filling, and handling of water-polluting substances). This measure enables the necessary aircraft refuelling within the facility. Sellhorn was also involved in the inspection of the structural design of the stand facility and supervised the construction of the stand facility through to commissioning.



*“We protect history.
Responsible heritage
conservation — out of
respect for the past and
responsibility for the future.
Ensuring that architectural
culture remains alive.”*



SELLHORN AS AN EMPLOYER

SHAPING WHAT ENDURES

Working at Sellhorn means being part of a team that shapes the future — through engineering expertise, responsibility, and the commitment to deliver construction projects with societal impact. More than 100 employees — and growing — from over 20 nations collaborate with us in an interdisciplinary way. Their diversity is not only welcomed but forms the foundation of our success. Good planning requires different perspectives, collaborative thinking, and a culture of active cooperation.

WHAT REALLY MATTERS

What elsewhere is advertised as a “perk” is everyday practice at Sellhorn. Choosing Sellhorn isn’t about a fruit basket or good coffee — although both are naturally included. What truly counts is the opportunity to engage in meaningful tasks, work with great colleagues, and shape your own development. This is our standard: a work environment with values, a team that thinks together, and projects that matter — not as a bonus, but as the foundation we build on.

As a family-owned company with a certified family-friendly corporate culture, we live values that go beyond paper. Our goal is to create an environment that enables performance, unlocks potential, and offers long-term perspectives — regardless of background, gender, lifestyle, or career stage.



A CULTURE THAT CONNECTS

Our work environment is shaped by openness, respect, and collaboration on equal terms. We encourage independent work as well as personal exchange and collegial support — within teams and across locations. Digital processes, lean structures, and flat hierarchies ensure that ideas are heard and decisions are embraced.

We offer diverse pathways into a career: from vocational training and dual study programs to internships, direct entry, and professional development. Those who start with us find space for growth, clear structures, and targeted support — whether as emerging talent or experienced professionals. Project responsibility grows with experience, continuing education is a given, and work-life balance is more than just a promise.

BECAUSE THE FUTURE NEEDS PEOPLE WHO WANT TO SHAPE IT.



LOCATIONS

Proximity for us is more than just a location advantage — it’s part of our values. With its headquarters in Hamburg and additional branches both nationally and internationally, Sellhorn Ingenieurgesellschaft is structured to support projects where they arise — locally rooted, globally connected.

With offices in Hamburg, Bremen, Cologne, and Szczecin, we manage construction projects of varying scales — from local development measures to complex infrastructure projects with international interfaces. Our locations are strategically chosen to enable direct communication, understanding of regional specifics, and rapid on-site responsiveness.

What unites us is more than just a company logo.

Our teams collaborate across locations — supported by standardized processes, digital platforms, and a corporate culture that fosters cooperation rather than mere administration. This creates a network of expertise, experience, and commitment — flexible, interdisciplinary, and ready to meet the challenges of tomorrow.



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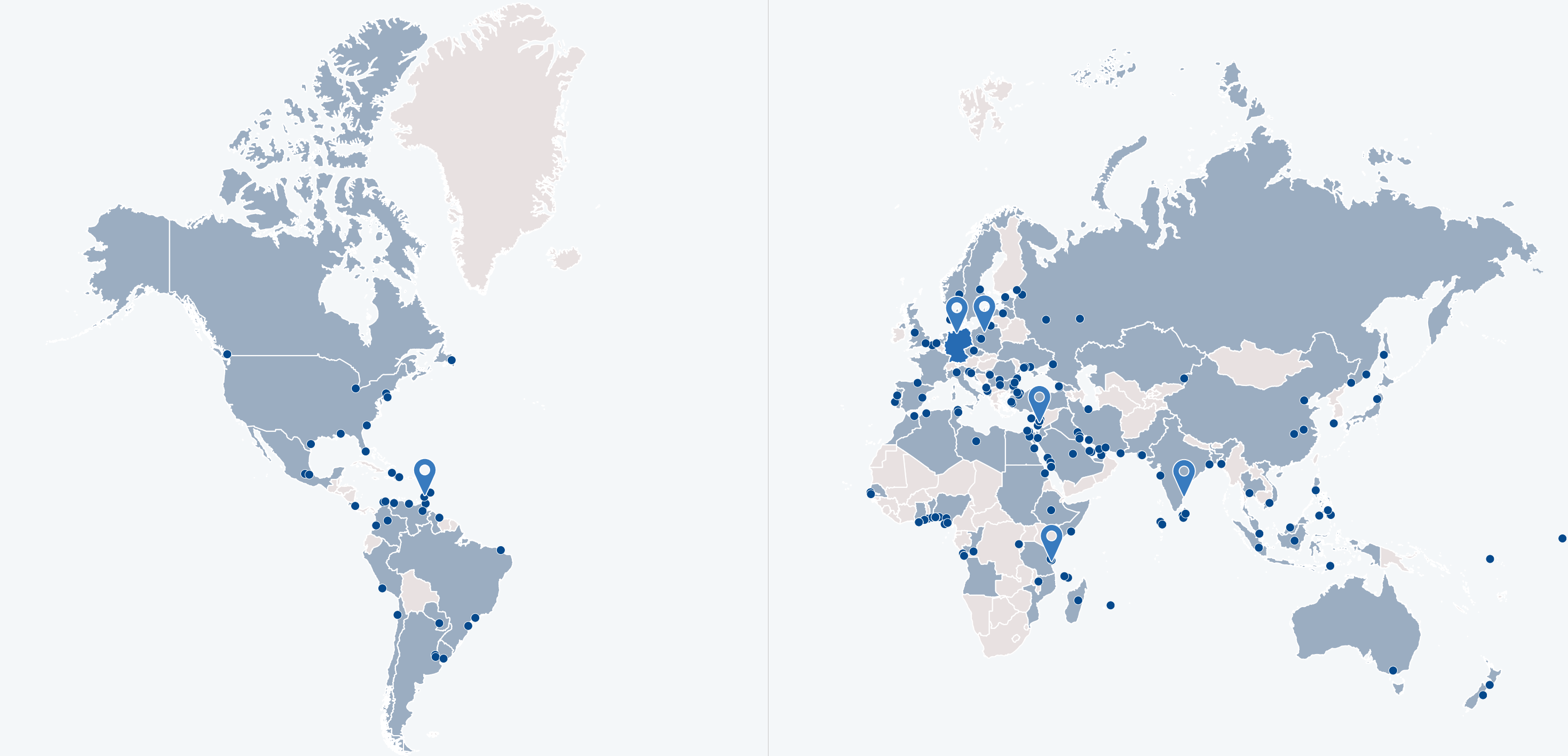
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