

# HOME OF CONSTRUCTION

**PORR**



Construction is our vocation.  
We build structures that endure.  
Our projects are as unique as  
they are essential. We build the  
world we live in and chart new  
paths to the future. What others  
dream of, PORR makes a reality.

# Home of Construction



**> €7.0 billion**

top order backlog

**> €5.1 billion**

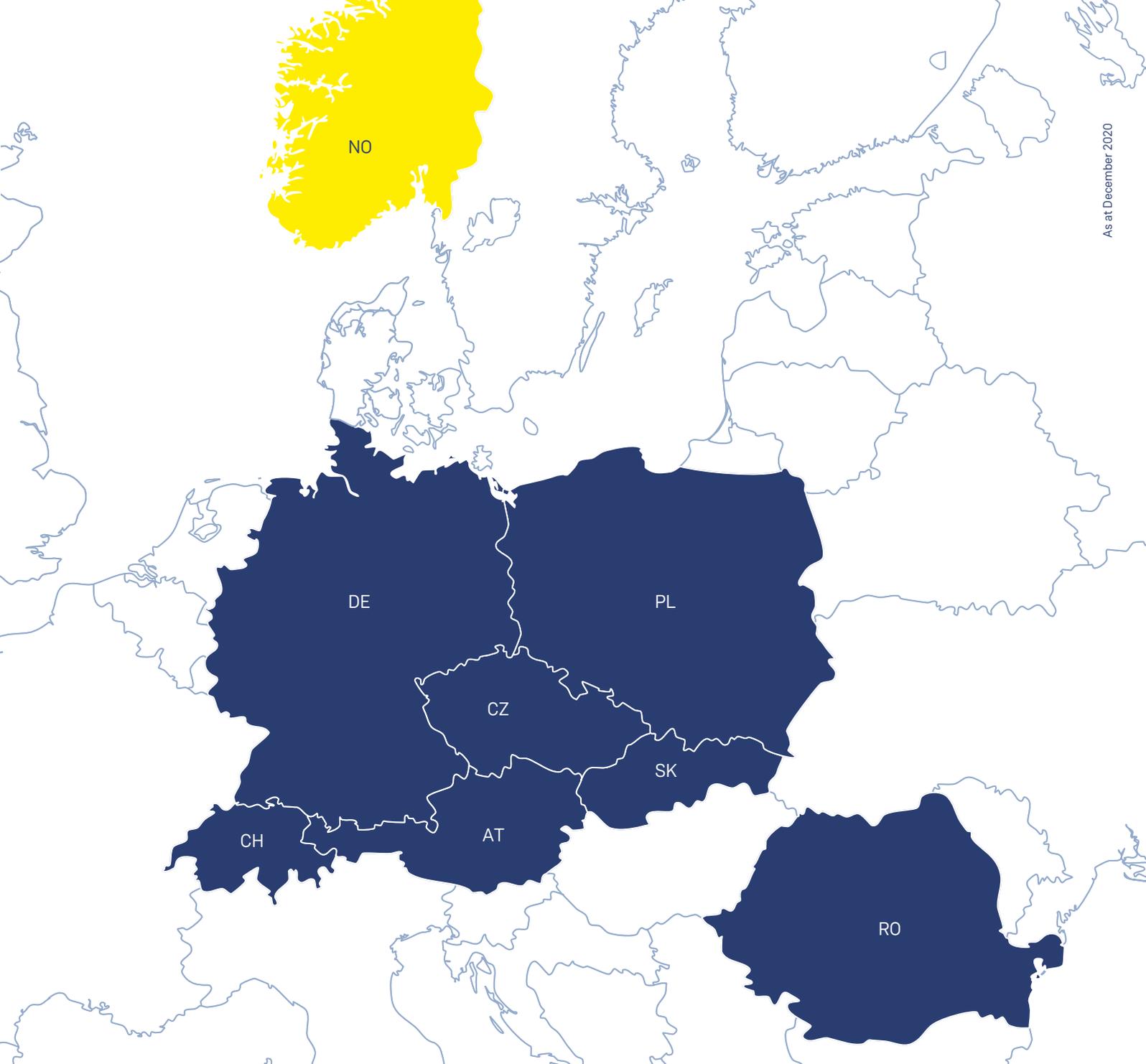
solid production output

**7 home markets**

a clear focus on Europe

**~ 20,000**

employees from more than 70 countries



since **1869**

listed on the stock exchange

**owner-managed**

with sound majority  
shareholders

■ Home markets  
■ Project markets

# A world in flux

The only constant is change. We live in an age of upheaval.  
And we look to the future with anticipation.

**T**ime seems to pass by faster and faster. Progress never stops. Quite the opposite, in fact: much has happened in recent decades that has shaped our world and will continue to do so in future. Megatrends highlight changes and influence the lives of each and every one of us. They shape the development of our society and have a decisive influence on global politics, the economy, society and our environment.

Take, for example, the way that collaboration is growing in significance as networking and interconnectedness build a faster route to success. Take the advance of automation and technologisation, which is increasingly enabling machines to independently perform standardised and repetitive tasks. Take artificial intelligence, new robotic technologies and information technologies, which are making construction more efficient and sustainable. Take the advance of digitalisation, with our private and professional lives increasingly permeated and definitively shaped by the increasingly pervasive use of the internet and social media, the rise of the Internet of Things and unrelenting technological progress. Megatrends demand action and innovation.

Rapid population growth, for example, and the resulting rise in demand for new mobility services

require a holistic approach to urban design and construction. Sustainable infrastructure and modern residential concepts are the only way to meet the needs of humankind. Climate change presents challenges for us all. At the 2015 Paris Climate Summit, the EU and its member states advocated limiting the global temperature rise to 1.5°C to reduce the risks and impacts of climate change. We therefore collaborate with experts on sustainable concepts that are reflected in all of our services.

## **Forging a path, together**

So, the world is in a state of flux. Changing faster than ever before, often dramatically, in many different areas and at many different levels. Even as the pandemic brought the world to a standstill, almost every aspect of our lives was radically transformed. We have reconceived accepted ideas, left our comfort zone behind and dared to break new ground. We have shown pioneering spirit and developed more sustainable solutions. And we have found answers to questions we had never asked ourselves before.

What does the future hold? We're prepared to venture a guess. Five megatrends will shape our lives and throw up questions – questions to which we already hold the answers.



# Five megatrends, one company

More and more people are moving to cities. We are developing new and innovative modes of mobility. Climate change is transforming the economy, digitalisation and the way we work. The construction sector runs like a blue-and-yellow thread through these megatrends.

If you look out from the top floor of PORR Headquarters, what you see is the world's most liveable city. You might call it a city powered by PORR. After all, we have played a decisive role in shaping the face of Vienna for more than 150 years. It shows what we do, from residential developments to office buildings, hotels to shopping centres, healthcare facilities to stadiums, and industrial plants to public buildings. From railway lines to bridges, tunnels to roads, and civil engineering projects to power stations. From environmental engineering to waterproofing, coatings to facility management, and airports to façades. As a full-service provider, we deliver services throughout the construction industry's entire value chain – from planning and design through to execution and operation. By extension, then, all megatrends are also powered by PORR.

## **Bringing together the best minds to build a sustainable future**

With more than 150 years' experience, we are ready for the future and will play our part in

shaping it. As one of the largest construction companies in Austria and one of the leading providers in Europe, we are a pioneering force in the digitalisation of the construction sector. PORR is an expert in building information modelling (BIM) and applies LEAN methods to optimise project processes. We work alongside prestigious institutions to research the construction site of the future.

People are at the heart of everything we do. We build structures made for people. We build structures for generations to come. We build structures that endure. When we say 'we', we mean the around 20,000 PORRians, each and every one of whom contributes to the success of PORR. We are a highly motivated and exceptionally well qualified team that is building a sustainable future. We are the best minds to implement megatrends.



**Josef Pein**  
COO

**Karl-Heinz Strauss**  
CEO

**Jürgen Raschendorfer**  
COO

**Andreas Sauer**  
CFO

# Nothing is impossible

For more than 150 years, PORR has given its buildings an unmistakable face. Planned, constructed, operated – all from a single source. For clients and employers, this means a single partner and multiple benefits.

**Demolition**



**Planning**



**Operation**



**All services from  
a single source.  
Full-Service-  
Provider.**



**Renovation**



**Construction**

**Building Construction**

**Offices**

**Hotels**

**Residential**

**Shopping centres**

**BIM**

**Industrial construction**

**Design/Engineering**

**Special skills**



# Civil engineering/Infrastructure

An aerial photograph of a city at sunset, showing a mix of modern and older buildings, roads, and infrastructure. The sky is a gradient of orange and blue. White lines connect various labels to specific features in the cityscape.

Railways

Bridges

LEAN

Tunnels

Roads

Structural engineering

Airport construction

Environmental engineering



# CONTENTS

MAJOR CITIES 1.

EVERYTHING FLOWS 2.

DIGITALISATION 3.

GREEN 4.

NEW WORK 5.



# MAJOR CI

An aerial photograph of a city skyline, likely Warsaw, Poland, featuring a mix of modern skyscrapers and older buildings. A wide river flows through the city, with a large green park area in the foreground. The sky is filled with soft, white clouds, and the overall lighting suggests a late afternoon or early morning setting.

The city of the future

# TIES





# BUILDING CONSTRUCTION

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Offices | Residential | Revitalisation | Industrial

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construction | Education | Healthcare | Stadiums |

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Shopping centres | Hotels

# Cities get smart

More and more people are living in cities. We need future-focused concepts that satisfy everyone's wishes and improve urban quality of life.

**C**ities are the habitats of the future and are becoming an increasingly integral component of our global social system. This trend is steady: more than two-thirds of the global population will live in urban areas by 2050. However, the more people opt for urban living, the more carefully cities and urban development areas will have to be designed in order to be liveable for all. There are significant social, economic and ecological pressures for development. The city of the future must therefore become more frugal, more liveable and larger.

## **Smart & affordable**

Now, more than ever, we need higher quality of life and increasingly networked mobility and energy concepts. Demand for affordable housing is growing. The conventional dividing lines between home and work are blurring. The need for space that can effectively combine housing, workspaces, co-working, recreation and leisure is increasing.

## **Digital & modular**

Due to the shortage of available land, cityscapes will be characterised by high-rise buildings. These will be divided into smaller units in line with demographic trends with the aim of promoting a sense of community. As in every other field, building pro-

jects must be realised in the fastest and more resource-efficient manner possible. Building information modelling (BIM) and LEAN construction are the core tools used to achieve this. However, prefabricated building components are also part of the solution and help to make sustainable city living possible. Highly automated production processes can deliver individuality, cost efficiency and premium quality. Modular construction offers flexibility in respect of its capacity for expansion as well as its versatility and speed when used in the construction of buildings such as halls, office complexes and apartments. These solutions, and others like them, will become increasingly important.

## **Natural & green**

When people are considering where they would like to live, proximity to nature and access to recreation areas are important factors. For these reasons, the roofs, façades and mezzanine floors of new buildings are increasingly being 'greened' with plants, thereby improving both climate and quality of life. The increasing dependence on public transport for mobility and the growing use of electric power will enable us to repurpose some of the spaces currently devoted to transport, thereby helping to satisfy people's need for nature.

# Offices

A photograph of a modern multi-story office building. The building features a mix of stone and brick facades. On the left, there's a section with a light-colored brick facade and several windows with dark frames. To the right, a taller section has a grey stone facade with vertical windows and balconies. The sky is a clear, light blue.

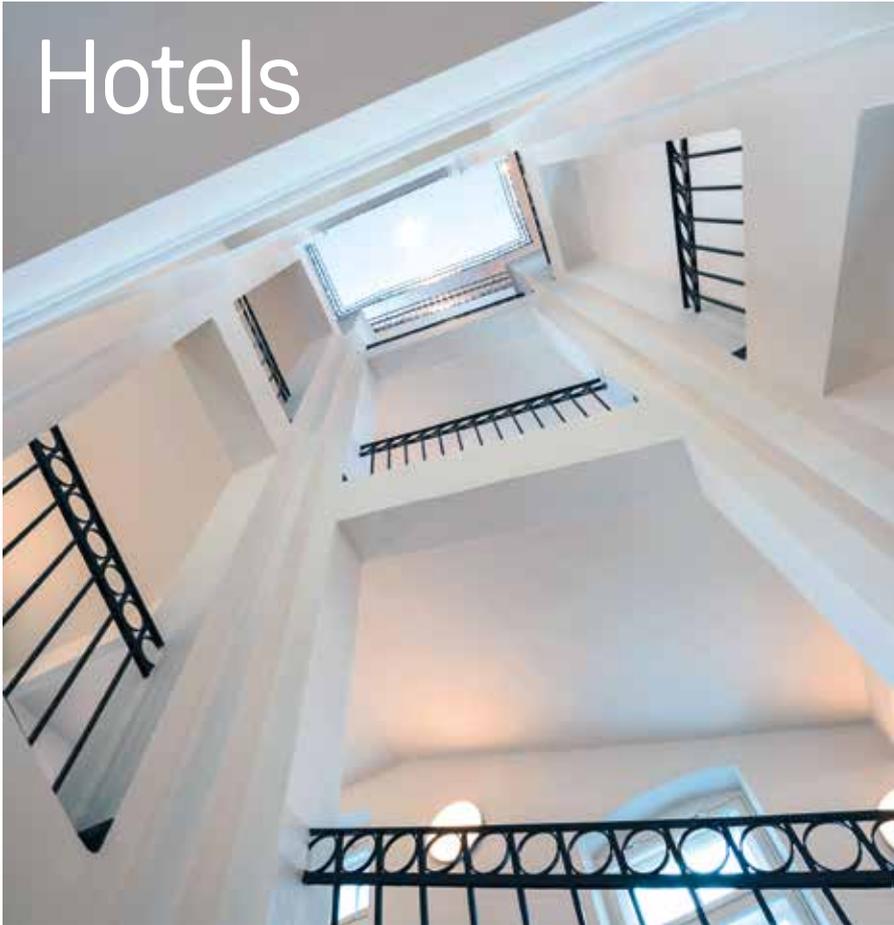
Our offices are all-rounders. They endure and offer outstanding quality, flexibility and sustainability.

# Residential



Holistic and contemporary residential concepts aimed at creating healthy homes of lasting value.

# Hotels



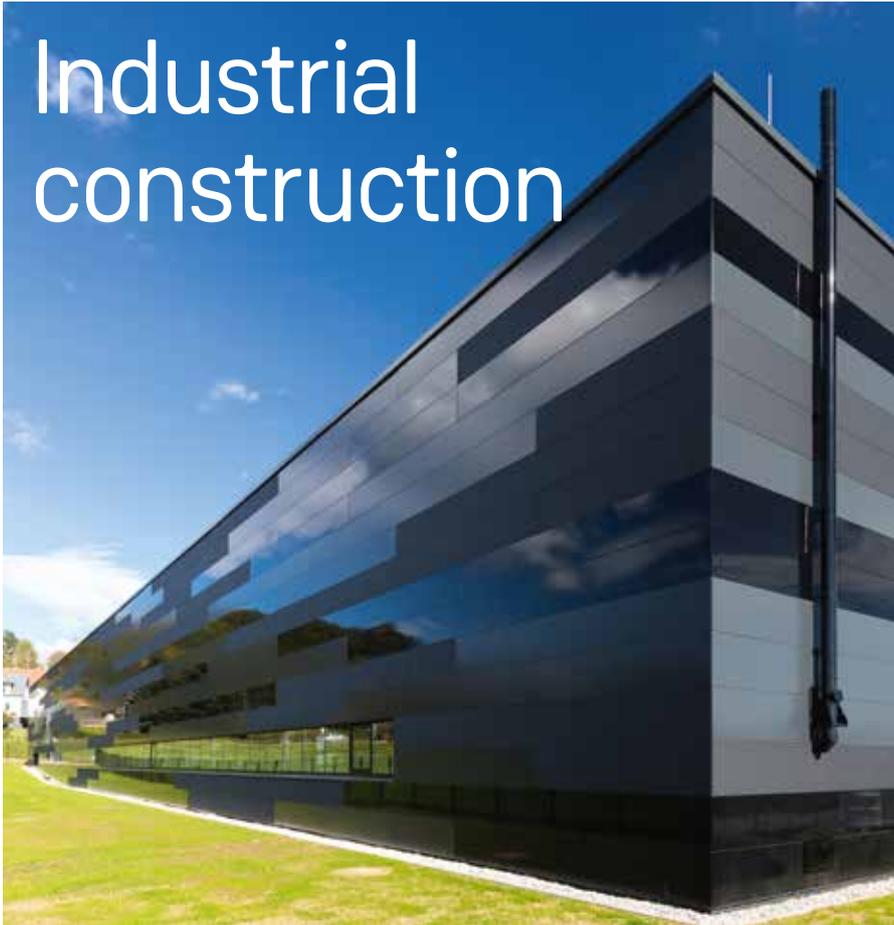
Hotels offer a home away from home. With our perfectly tailored, conceptual solutions, we give each hotel a unique image. Our open, innovative approach and our many years of expertise bring price-less dynamism to all our hotel projects – from smart, mixed-use accommodations and up-market boutique hotels to serviced apartments and micro-living. Our goal is always to achieve the best possible outcome – in terms of cost efficiency and functionality, but above all in relation to the ambience and aesthetics. Every project we complete bears the signature of our holistic approach. When serving as a general or total contractor, we accompany our clients through every work stage. In a nutshell, PORR is perfectly positioned to deliver new generations of hotels.

Intelligent revitalisation enables spaces to rediscover their original identity. Showing respect for history and each phase of a building's life are at the heart of this work. We see these projects as saving something worth preserving. And, at the same time, as opportunities to create something new. When renovating listed structures or revitalising cultural buildings, we choose from a wide spectrum of approaches and design possibilities – from almost invisible repairs to complete redesigns, and from making façades more energy-efficient to revitalising existing building complexes. In projects like these, we show that preserving existing buildings can successfully unite economic and ecological aspects. We are building a climate-neutral future.

# Revitalisation



# Industrial construction



New industrial facilities primarily enhance a company's capacity to create value. At the same time, they express the company's unmistakable identity. We construct buildings that impress through their flexibility and functionality. Workflows are a decisive factor and must bring together requirements from different trades. Added to this is the desire for resource-efficient construction. We are a leading construction company and serve as the total or general contractor to bring highly complex projects to completion for clients in the semiconductor and heavy industry, the pharmaceutical and medical industry, the chemical industry and in ambitious technological and laboratory projects. We offer complete planning and execution services in house, especially M&E planning, cleanroom planning and process technology planning.

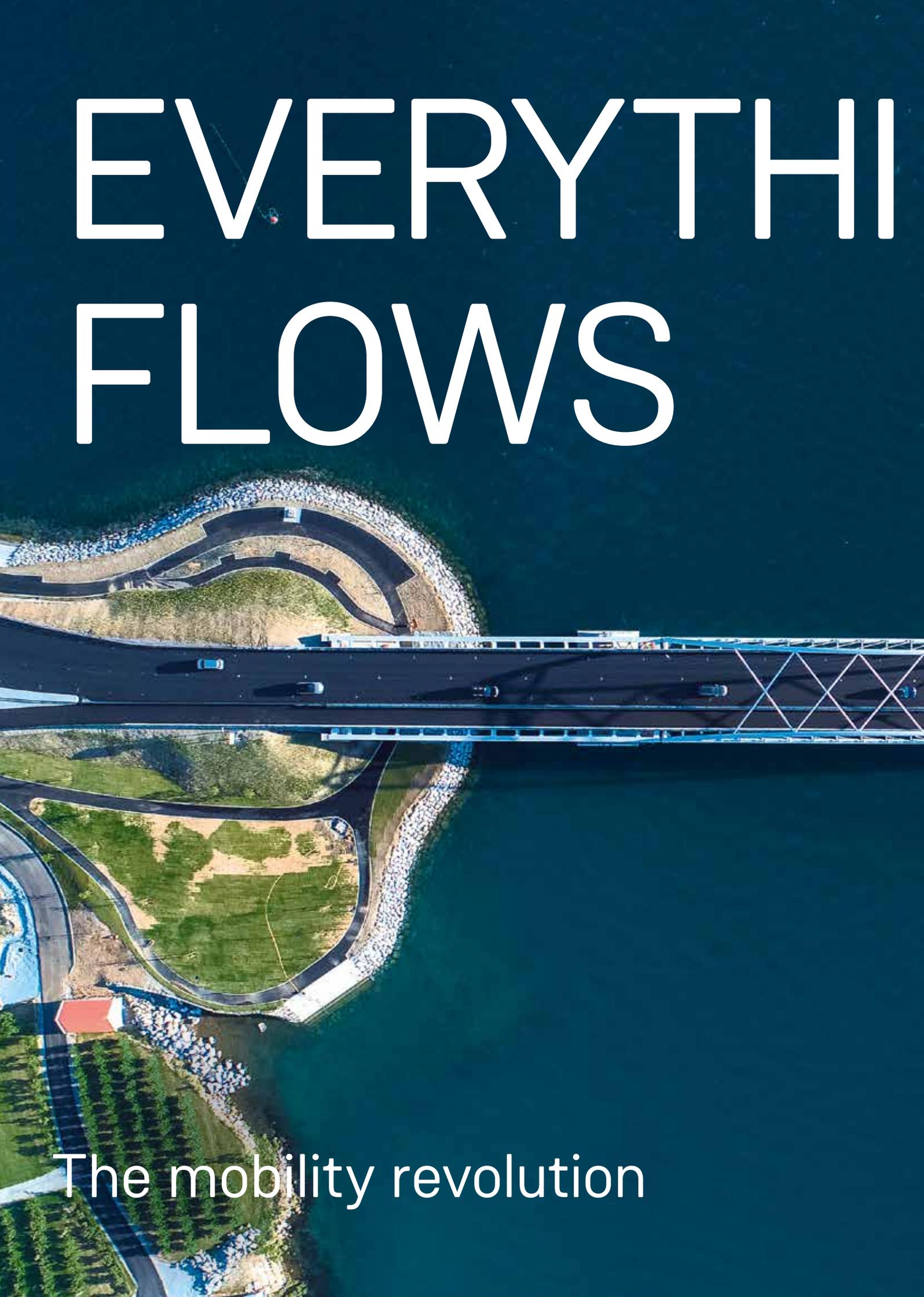
Every investment in education is an investment in a liveable future. Our focus is on optimising the building lifecycle and developing sustainability standards. As a pioneer in digital infrastructure, we rely on integrated design of the highest quality in all project phases. In public-private partnership models, we take responsibility for all project phases, from planning and financing to construction and through to facility management by PORREAL.

Healthcare buildings are multifunctional places with different medical, economical and structural requirements, but above all human requirements. Flexibility is decisive: processes must run as efficiently as possible while buildings enhance their occupants' wellbeing and offer emotional support.

# Education / Healthcare



# EVERYTHING FLOWS

An aerial photograph of a modern highway interchange. A multi-lane bridge with a blue steel truss structure crosses a river. The bridge has several cars on it. Below the bridge, the road curves into a landscaped area with green grass, trees, and a small red-roofed building. The river is dark blue, and there are rocky banks on either side. The overall scene is well-maintained and modern.

The mobility revolution

# NG



MOBILITY



# CIVIL ENGINEERING/ INFRASTRUCTURE

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Bridges | Tunnelling | Roads | Railways | Structural

engineering | Power stations | Hydraulic engineering |

Pipeline construction | Specialist civil engineering

# High standards in civil engineering

We have many sustainable modes of transport. More are being developed all the time. We are in the midst of the mobility revolution.

**M**odern urban infrastructure presents both challenges and opportunities. Growing urbanisation is leading to infrastructural, ecological and economic developments and is becoming a key task for the future. Mobility is a basic human need.

Transporting goods is a prerequisite for a flourishing economy. In the future, however, we will need an innovative, efficient and highly functional mobility and transport system in both urban and rural areas. This system must meet the requirements of digitalisation, be energy efficient and emit as little CO<sub>2</sub> as possible. The goals are clear: avoid traffic, relocate traffic, improve traffic.

## **New investment**

We can expect dynamic growth in infrastructural and civil engineering projects, especially for road and railway construction. Additional funding is being made available to redevelop and modernise transport infrastructure. Rail is the first choice for long-distance transport in many areas, especially in relation to freight. Significant investments in corresponding infrastructure has the goal of creating networks among regions within and beyond Europe while also continuously improving customer service quality. This will increase the importance of rail travel.

## **New concepts**

The need for sustainable transport systems is growing. A change in thinking is underway. Environmental considerations, pragmatism and the growing flexibility of alternative mobility solutions all will play decisive roles. Modern mobility concepts are needed to support the expansion of public transport. Electrification, autonomous driving, the sharing economy and a culture of cycling are trends that can shape the transport transformation. In rural areas, the expansion of park & ride systems and the creation commuter car parks near motorway exits are more relevant than ever before.

## **New solutions**

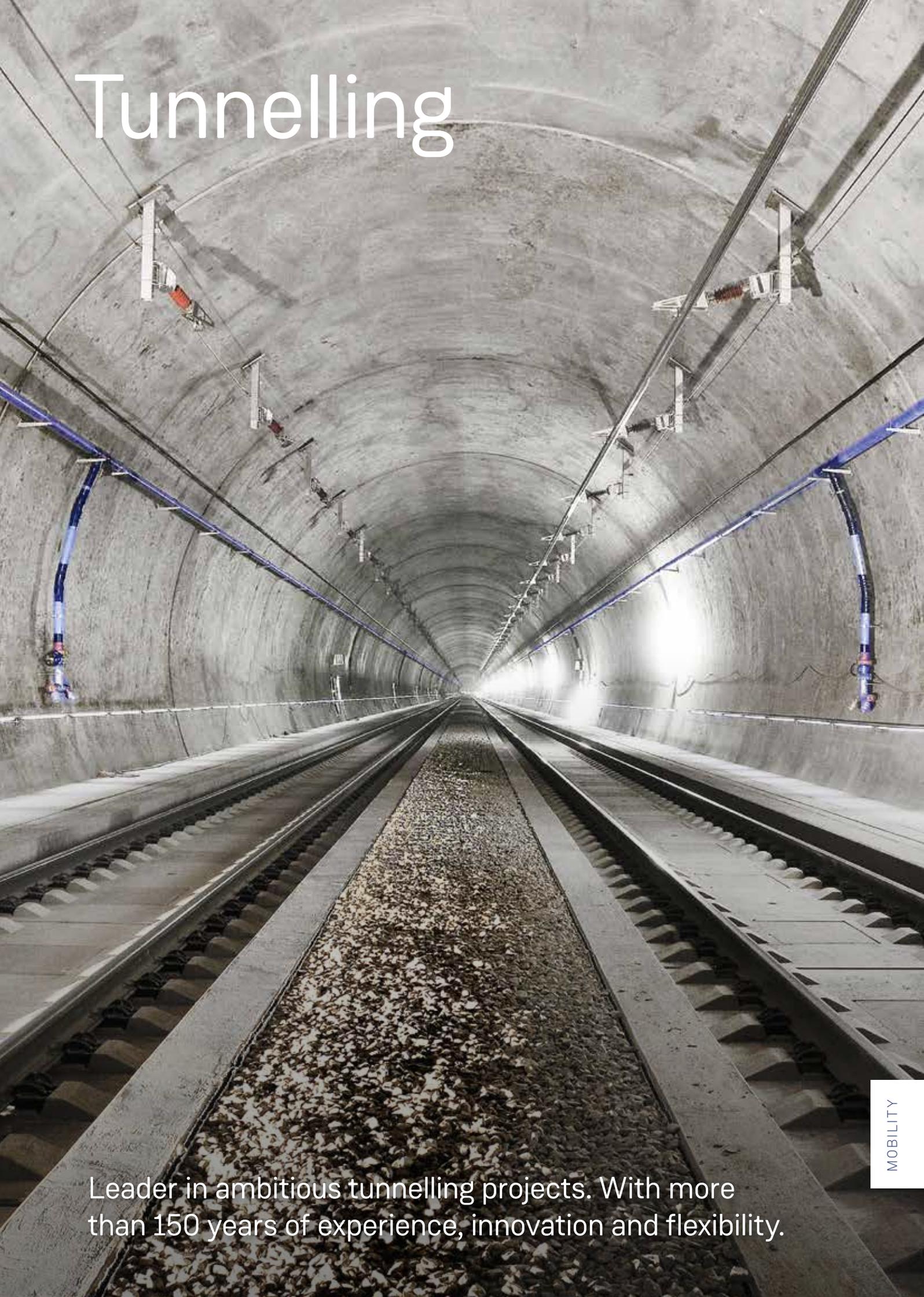
Inner-city construction often confronts challenging conditions, including significant spatial constraints, masses of underground cabling and piping, and neighbouring historical buildings that necessitate special protective measures. Expanding or upgrading infrastructure in such settings therefore poses a considerable technical challenge for construction firms. In order to offer optimal solutions, a construction firm needs a wealth of experience, expertise and dependable, flexible specialist personnel.

# Bridges

An aerial, high-angle photograph of a cable-stayed bridge, viewed from above. The bridge deck is a dark grey or black, with two yellow lines running down the center. The bridge is supported by two large, white, A-shaped pylons. Numerous white cables fan out from the top of each pylon to the bridge deck. The entire image has a strong blue color cast. In the background, some greenery and buildings are visible on the ground.

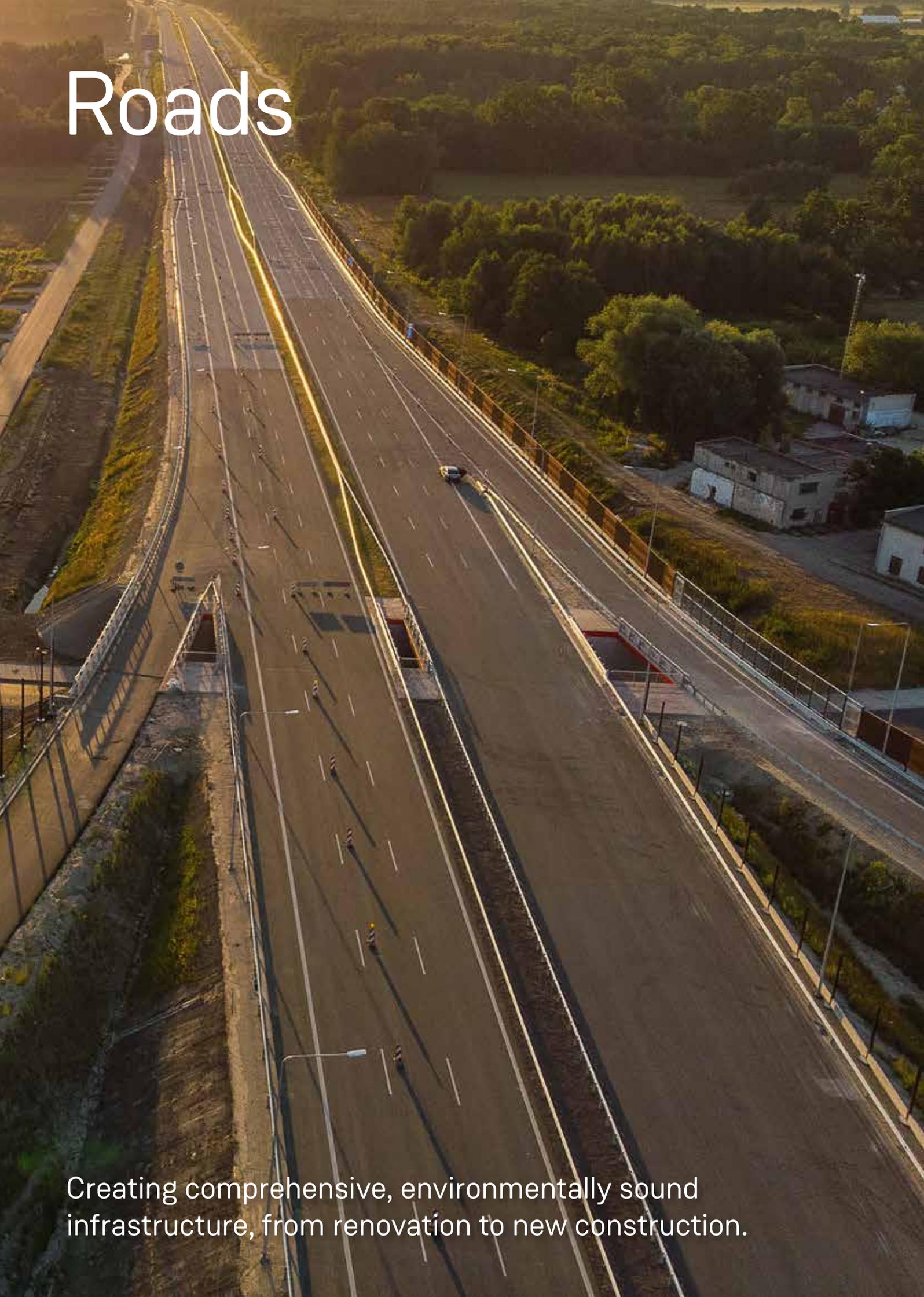
Our bridges are flawless examples of civil engineering that endure for over 100 years.

# Tunnelling

A perspective view of a long, straight railway tunnel. The tracks run parallel to each other, with a gravel bed in the center. Overhead power lines and support structures are visible along the top of the tunnel. The tunnel walls are made of concrete or stone, and the lighting is bright and even.

Leader in ambitious tunnelling projects. With more than 150 years of experience, innovation and flexibility.

# Roads

An aerial, high-angle photograph of a multi-lane highway. The road is dark asphalt with white lane markings. A single white car is visible in the middle of the road, moving away from the viewer. The highway is flanked by concrete barriers and green grass. To the right, there are several white, rectangular buildings and a dense line of green trees. The lighting is warm, suggesting late afternoon or early morning, with long shadows cast across the road.

Creating comprehensive, environmentally sound infrastructure, from renovation to new construction.

# Railways



Power on rails. A full-service-provider in railway construction. Building the mobility of the future.

# Structural engineering



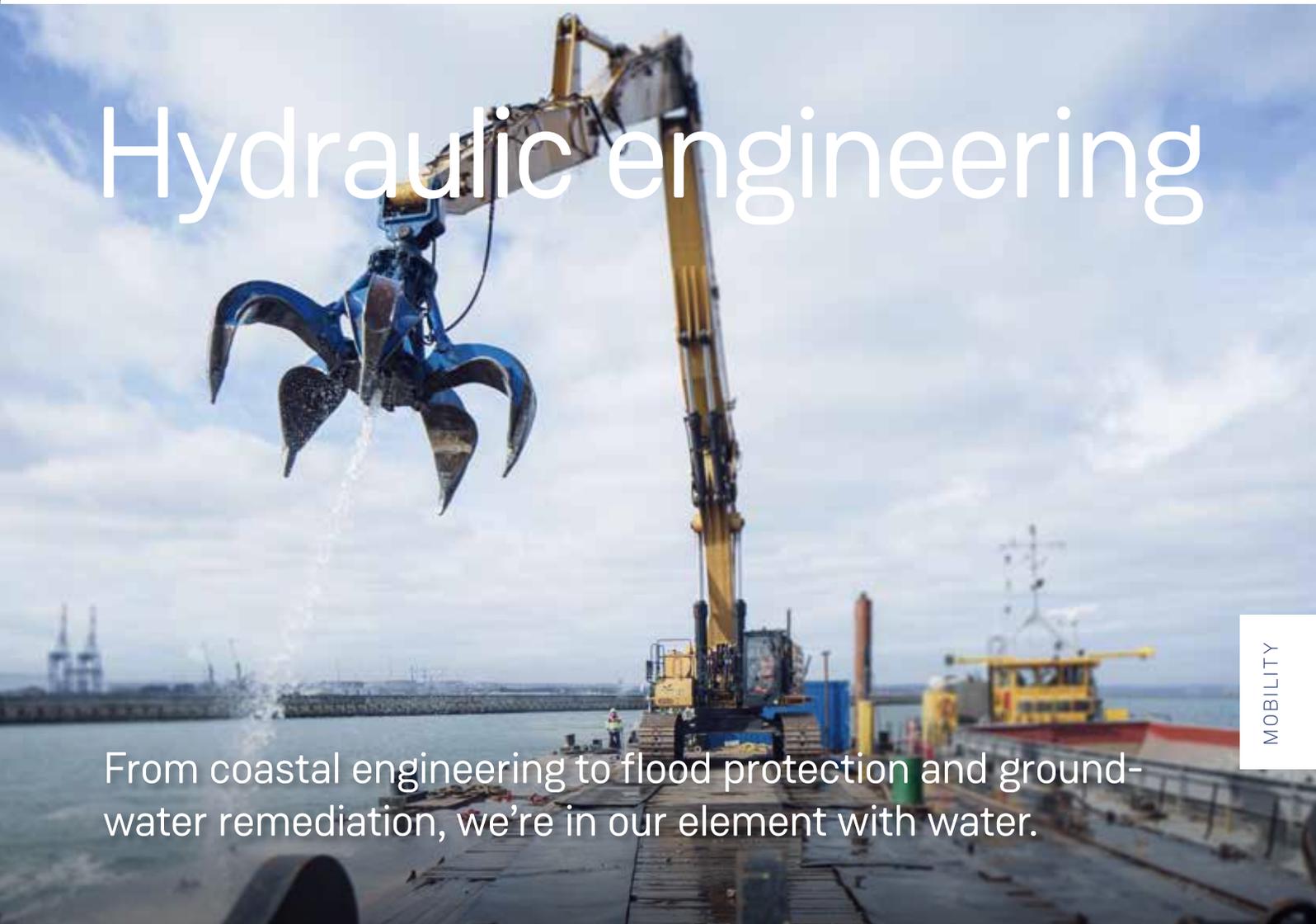
We create unique structures with technical excellence  
and tailor-made solutions.

# Power stations



As a general contractor, we plan and build efficient power stations for a green future.

# Hydraulic engineering



From coastal engineering to flood protection and ground-water remediation, we're in our element with water.

# SPECIAL SKILLS

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Major projects in infrastructure | Airport construction |

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Asphalt production | Slab track system |

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Alpine construction | Façade construction | Sealing |

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Coating | Concrete slab construction | Facility and

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property management | Healthcare | PPP



# MAJOR PROJECTS IN INFRASTRUCTURE

Infrastructure projects are highly complex undertakings. The ability to offer all construction services from a single source is therefore a decisive advantage.

**W**hen it comes to your most ambitious projects, when construction schemes require multiple services. When you want to connect people in intelligent buildings. PORR is your best choice. From tunnelling, road construction and specialist civil engineering to bridge construction and traffic engineering, we bring everything together under one roof.

In major projects, we impress by drawing on our experience and expertise from over 150 years and countless projects. We've built bridges of every type over rivers and valleys and constructed every type of road. We've laid solid foundations for every all manner of buildings and structures. And we've built tunnels through every type of rock using all standard excavation methods. Our technologies, such as the patented Slab Track Austria system developed with the Austrian Federal Railways (ÖBB), are just as impressive.

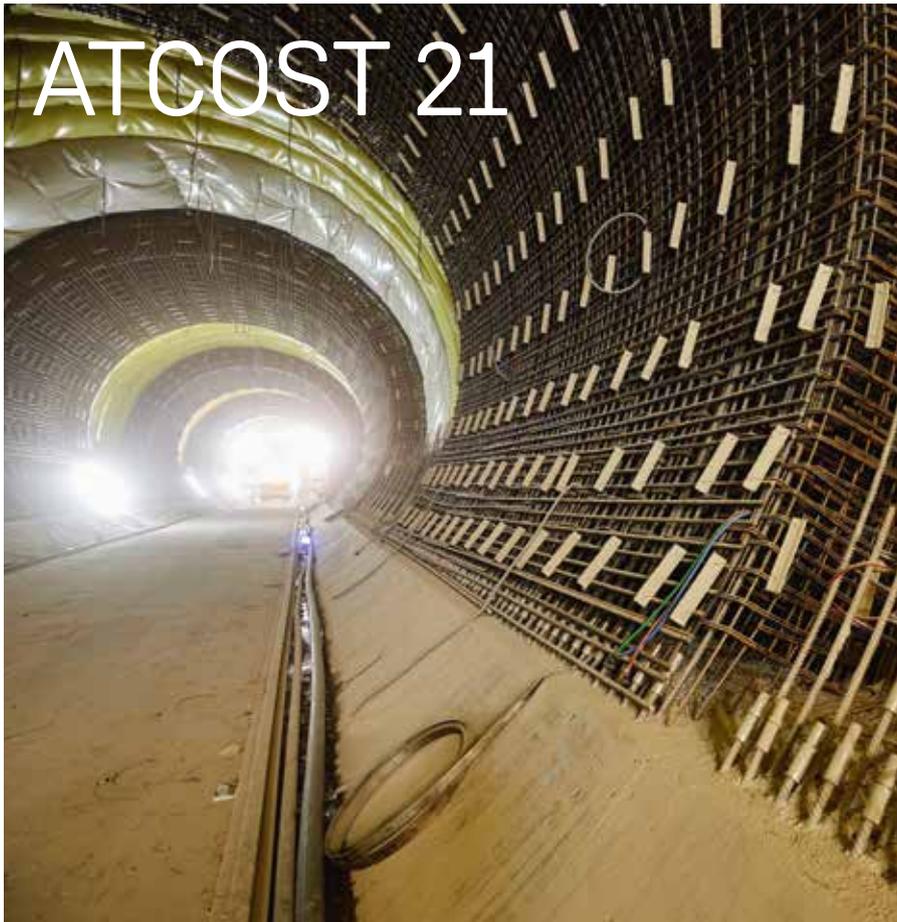
Our projects are characterised by economy, efficient use of resources, optimised planning and execution, and utility maximisation for all stakeholders.

PORR has a leading role in the construction of Europe's high-speed network. We are responsi-

ble for some exceptionally ambitious sections of the Stuttgart-Ulm rail project. Furthermore, we're bringing our experience to bear in Poland in the development of a vital trans-European transport link, the section of the S1 motorway between Mysłowice and Bielsko-Biała.

Since 2013, our work on the Koralp Tunnel project has demonstrated our tunnelling expertise. We are boring through the layers of stone in the Koralpe mountain range to make this once-in-a-century project a reality. PORR is also making a decisive contribution to the Ceneri Base Tunnel in Switzerland, the third-largest tunnelling project in the New Rail Link through the Alps (NRLA). And, of course, construction of the Green Line on the Doha Metro is among our largest infrastructure projects. It went down in company history and marked a key milestone for the capital city of Qatar.

We have also constructed impressive bridges in Norway. Situated on the west coast of Norway near Molde, the Tresfjord Bridge connects Remmem and Vikebukt on opposite banks of the Tresfjord and has cut journey times between Ålesund and Dombås. It is 1,290m long and stands on five different types of foundation.

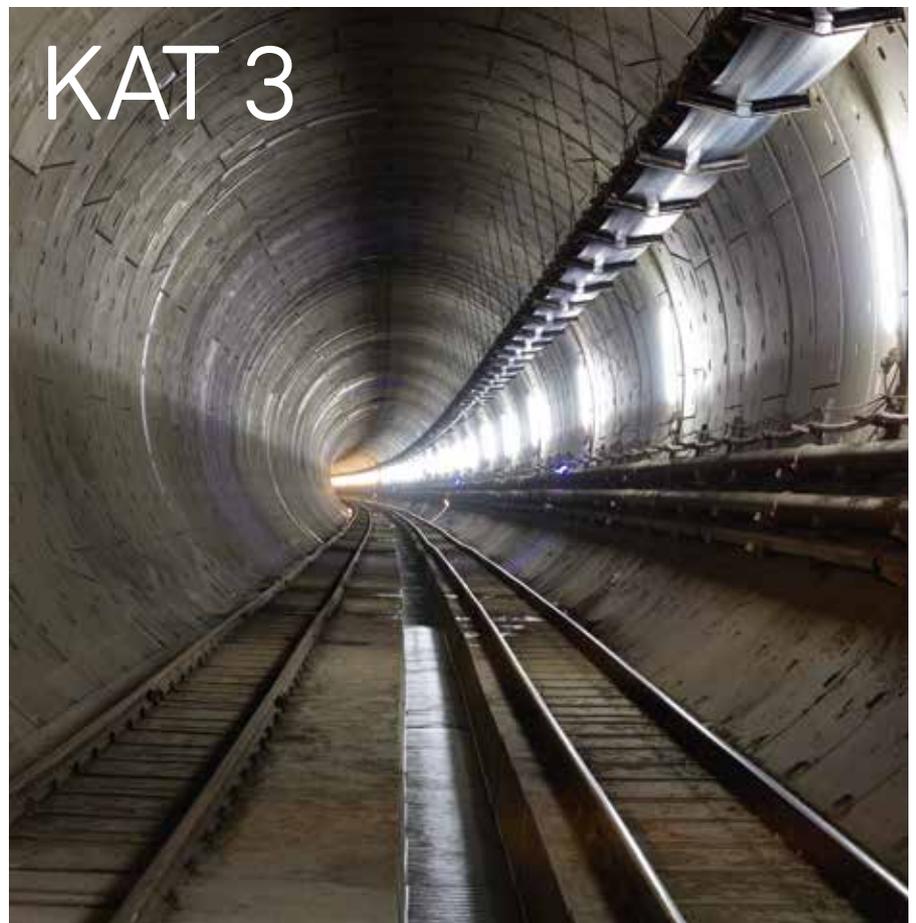


The Stuttgart-Ulm railway project is currently the largest infrastructure construction site in Germany. The linchpin is the reorganisation of the Stuttgart rail junction with an underground through-station and several access tunnels. Work began in 2011. The contract was awarded to the Austrian Tunnel Consortium Stuttgart 21 (ATCOST 21) led by PORR.

In total, the project includes more than 30km of tunnels and 32 connecting structures. More than 80 staff are working on the project across four office locations, in addition to over 450 personnel working on site. Challenging conditions have forced our team to develop creative and innovative solutions. Take, for example, the Lower Filder Tunnel, where a European patent application has been submitted for the innovative concept developed for annular gap mortar.

At around 33km, the Koralm Tunnel is the longest railway tunnel in Austria and one of the longest tunnels in the world. It is one of the key projects in the Baltic-Adriatic Corridor connecting these two ambitious economic regions. This high-speed rail connection will create new capacity and significantly improve conditions for passenger services and rail freight.

Section 3 of the Koralm Tunnel, also known as KAT 3, comprises the construction of two tunnel tubes with a total length of 21km. Work in the southern tube included expanding an existing exploratory tunnel using the riverbed/soil advance method. The north tunnel was created using the KORA tunnel-boring machine. In addition, 66km of solid slab track has been laid; we are now installing technical railway infrastructure.



# Airport construction



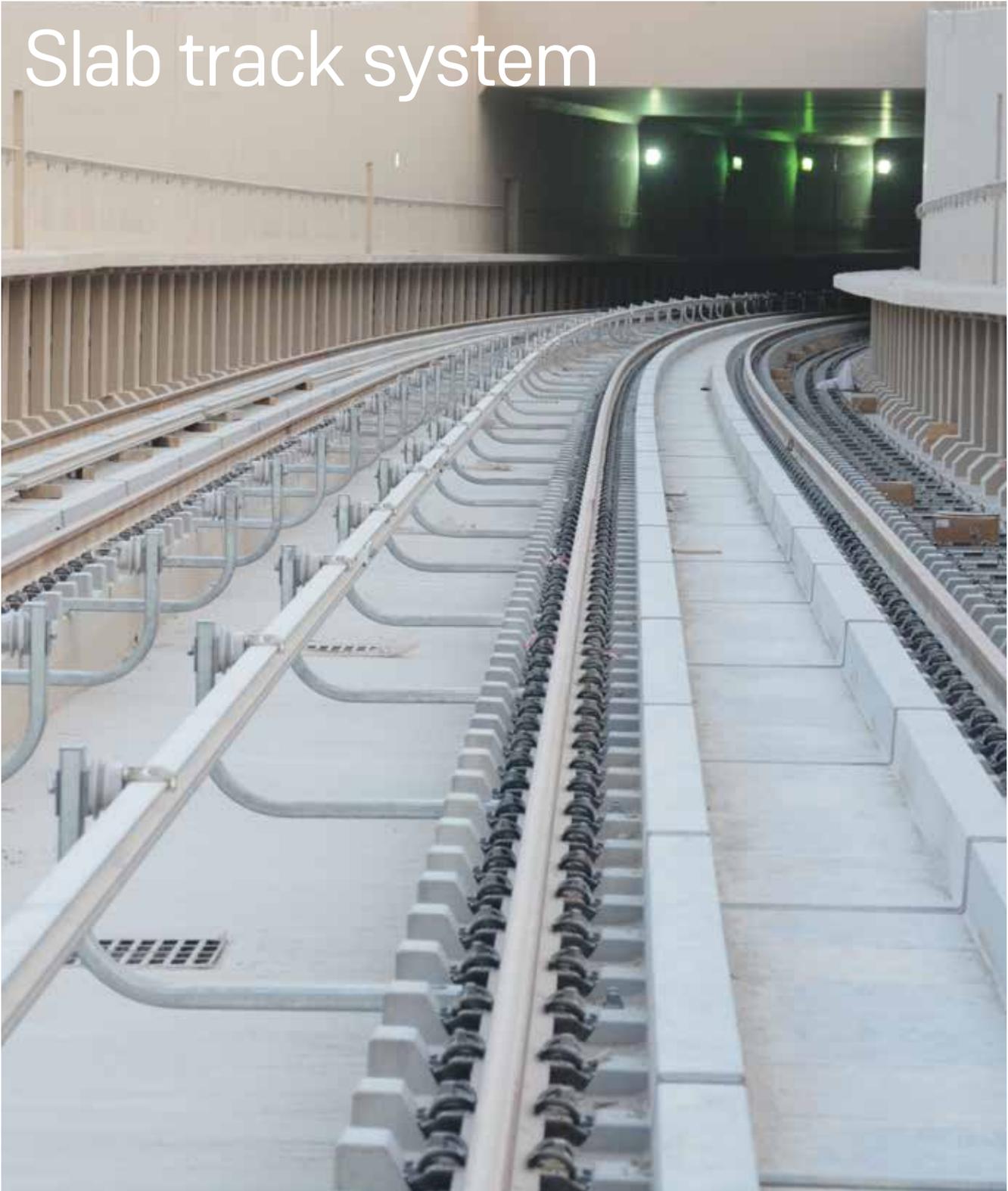
Securing and expanding locations – without interrupting operations and with utmost professionalism.

# Asphalt production



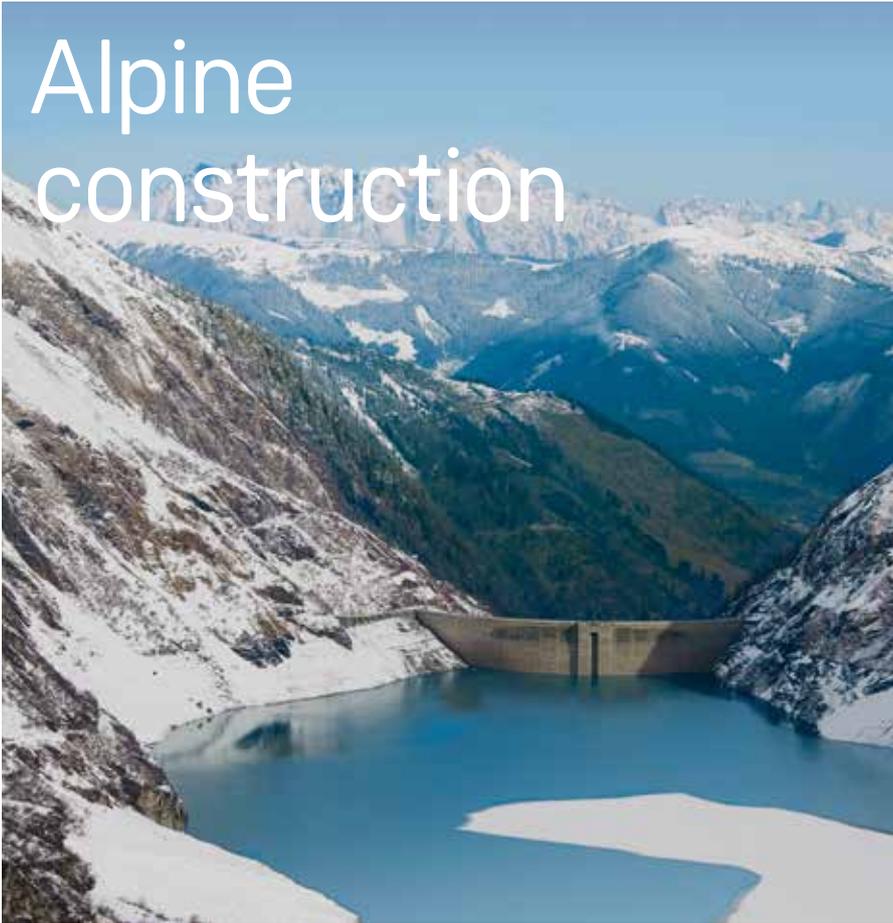
State-of-the-art technology exploits full potential of our resources and meets individual customer requirements.

# Slab track system



The high-performance, highly durable rail infrastructure of the future requires innovative and robust technologies. PORR's slab track system is smoothing the way for the expansion of sustainable transport routes. The highly modular and adaptable product is durable and requires zero maintenance. In contrast to conventional constructions, the precise, high-quality factory prefabrication of the slab track system minimises the potential for mistakes during construction and ensures high track quality. The track slabs are produced to a consistently high, documented quality standard and supplied to the construction site in just-in-time deliveries. Slab track technology offers significant benefits for urban and local transport networks as well as high-capacity and high-speed rail routes. The system is quick to install and keeps the work required on site to a minimum. Having proven its worth for decades and now growing in popularity worldwide, this system is the solution to the rising demand for fast, reliable and sustainable mobility services.

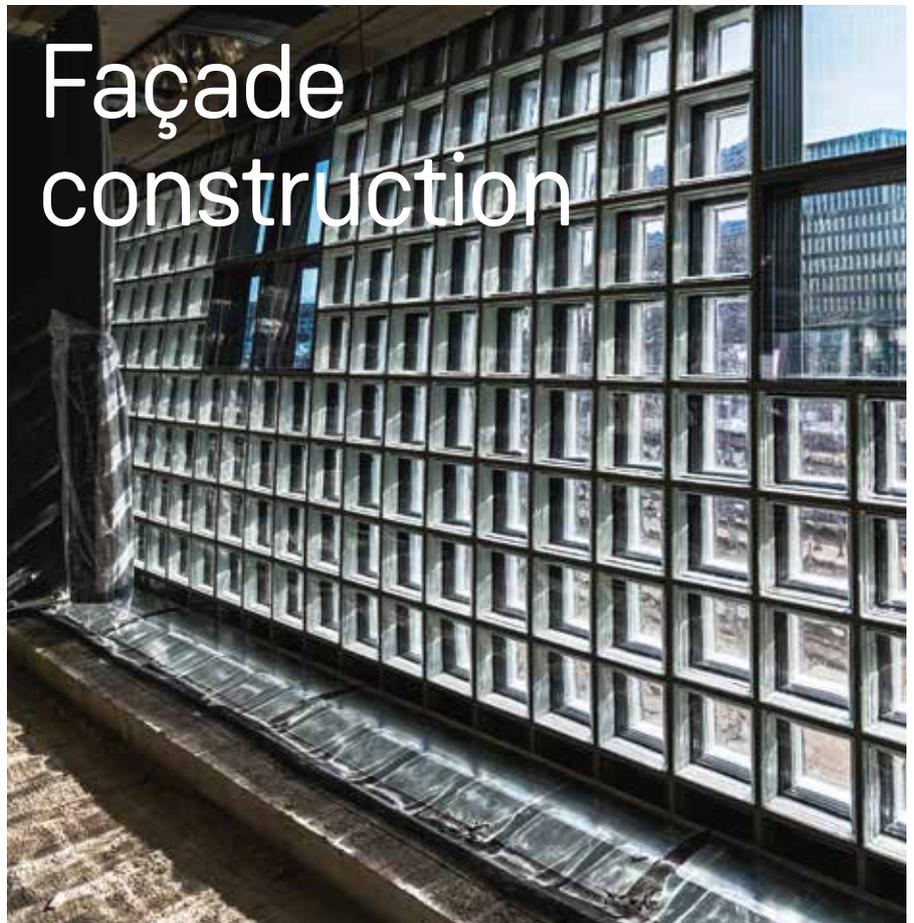
# Alpine construction



**D**izzying heights, highly variable weather conditions and, in most cases, no recourse to the usual logistical tools or infrastructure: construction sites in the mountains are subject to extreme conditions. No matter whether they concern a mountain road, a tunnel gallery or a pumped-storage power station, alpine construction projects require specific expertise, high flexibility, a keen mind for logistics and transport arrangements and, above all, an understanding of ecological aspects when working in protected areas. Our extensive service spectrum encompassing every segment of the construction industry, combined with our employees' years of experience working in Alpine conditions, mean we are ideally positioned to handle whatever challenges we face – even when circumstances are extreme.

**F**irst impressions are vitally important, for people but also for buildings. For this reason, we collaborate with our subsidiary ALU-SOMMER to develop tailored solutions for every façade we work on. We take care of everything, from design and production to the installation of building envelopes made from metal and glass. In addition, we offer repair, servicing and maintenance services, thereby making a significant contribution to preserving the value of the structures we build. In constructing façades, we emphasise developing new solutions so that we can continuously enhance the benefits for our clients. We have been working with our partners for many years to develop new technologies focusing on aluminium, steel, glass and connecting materials.

# Façade construction



# DIGITALIS

Networking worlds

# ATION



# DESIGN & ENGINEERING

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BIM | LEAN management | General planning |

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Specialist planning | Building certifications

# Digital becomes a reality

The Internet of Things is networking our lives in both private and professional respects. The construction site of the future will also be increasingly paper-free. This opens the door to new construction methods.

**A**nalogue values are giving way to digital formats, both on the building site and in offices. In future, merely accepting digital working methods will not be enough to bring projects to an efficient and successful solution. Instead, we must help to shape these methods, integrate them in all processes, embrace them and thereby always stay one step ahead. Building information modelling, or BIM for short, is obviously of great importance in this context. It is a requirement for optimal collaboration from the planning stage through to completion.

## Basic conditions

Basic contractual conditions need to be established for BIM to achieve its full potential. For example, if everyone involved in a project is working on the same model, defining each person or party's responsibilities is vital. Arrangements must also be made to ensure data models can be transferred without information loss. And, of course, BIM must be included as standard in the technical training of future construction specialists.

## Seizing opportunities

IT has an increasingly important role to play in the construction industry. Investment is therefore required to standardise the IT systems used. Only then is it possible to access real-time data and make the best possible use of it. For example, the data collected by using drones, GPS trackers and sensors on a construction site can be used to reduce waste. Nevertheless, from an IT perspective, storing and processing such large volumes of data are still challenges. And, where the added value is generated – that is, on construction sites – operational personnel need to learn to work with digital methods at an early stage in order to remain competitive on the market.

## Plus points

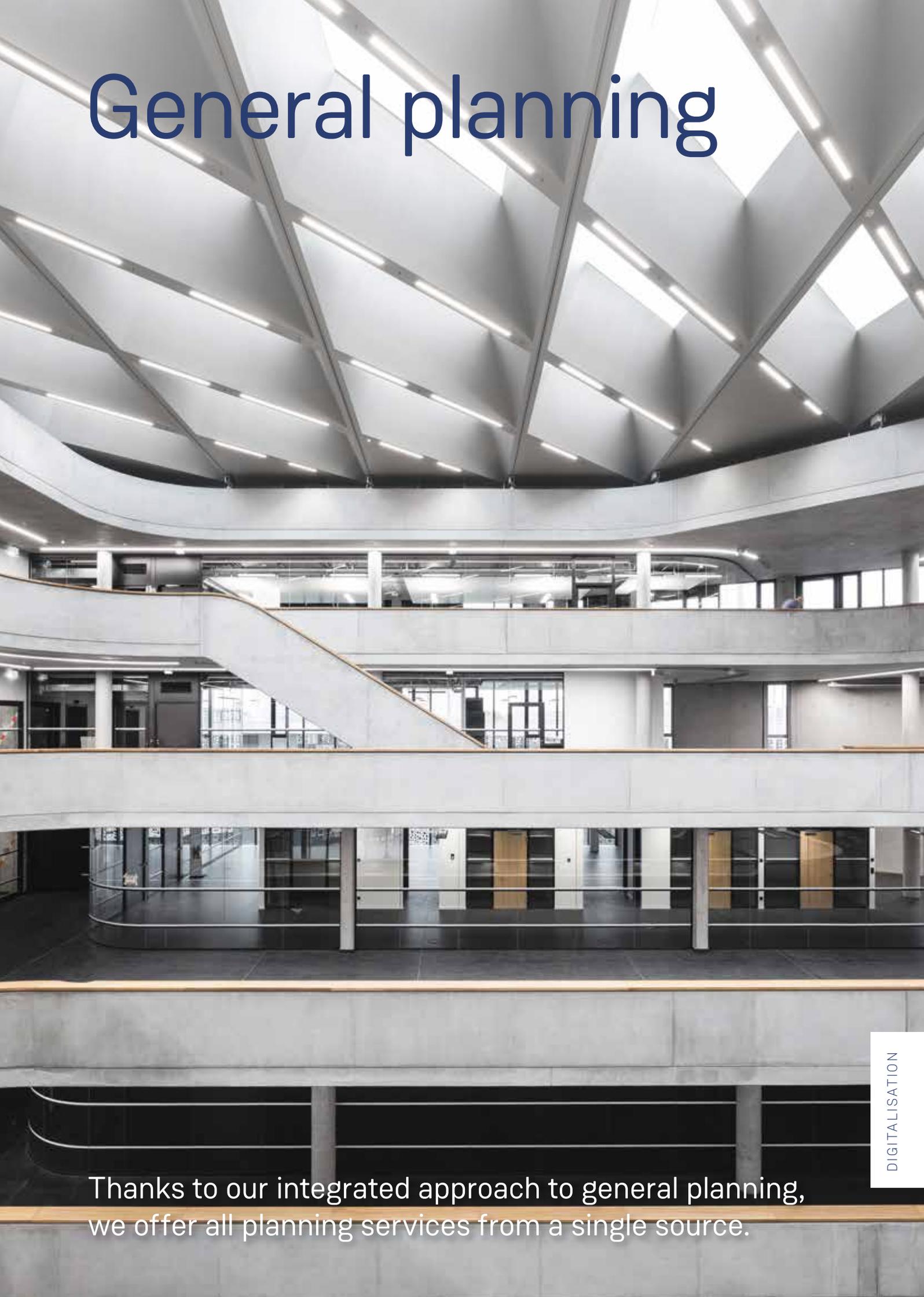
Augmented reality (AR) and virtual reality (VR) offer further opportunities to effect significant process optimisations. The main benefit lies in their ability to visualise abstract 2D plans. Simulations are already in use and proving extremely helpful in building physics, structural engineering, construction scheduling and architecture. This technology should also yield benefits for occupational health and safety. Simulations of hazardous areas can be used to train and raise awareness among construction site personnel.

# BIM and LEAN

The image shows a close-up, low-angle view of a modern building's exterior. The facade is composed of light-colored, horizontal wood slats. Several windows are visible, each fitted with grey, horizontal blinds. The perspective is from a low angle, looking up at the building, which creates a sense of height and scale. The lighting is bright, suggesting a sunny day, and the overall aesthetic is clean and contemporary.

Networked planning and construction through BIM and LEAN is a fast and cost-efficient route to success.

# General planning



Thanks to our integrated approach to general planning, we offer all planning services from a single source.



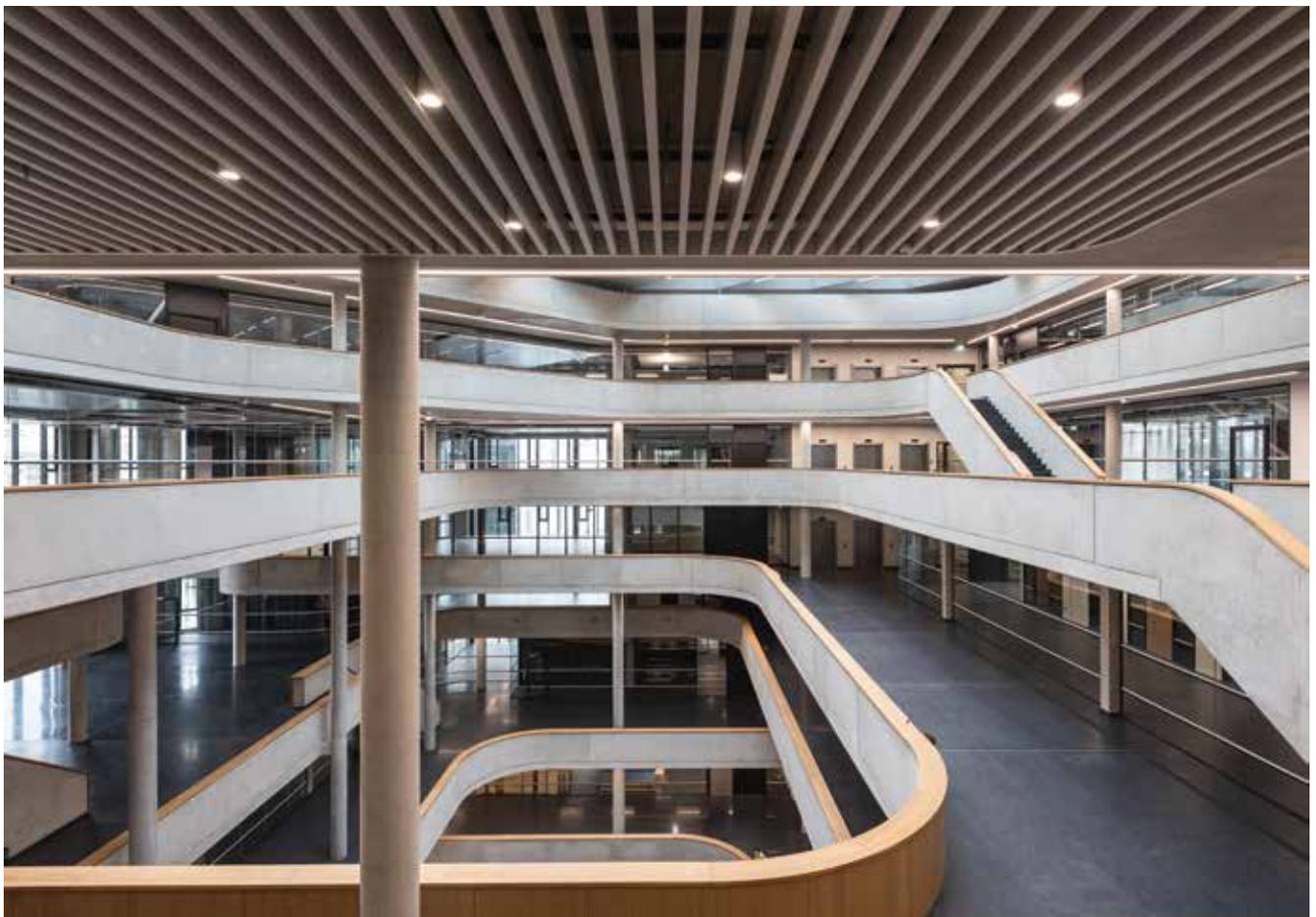
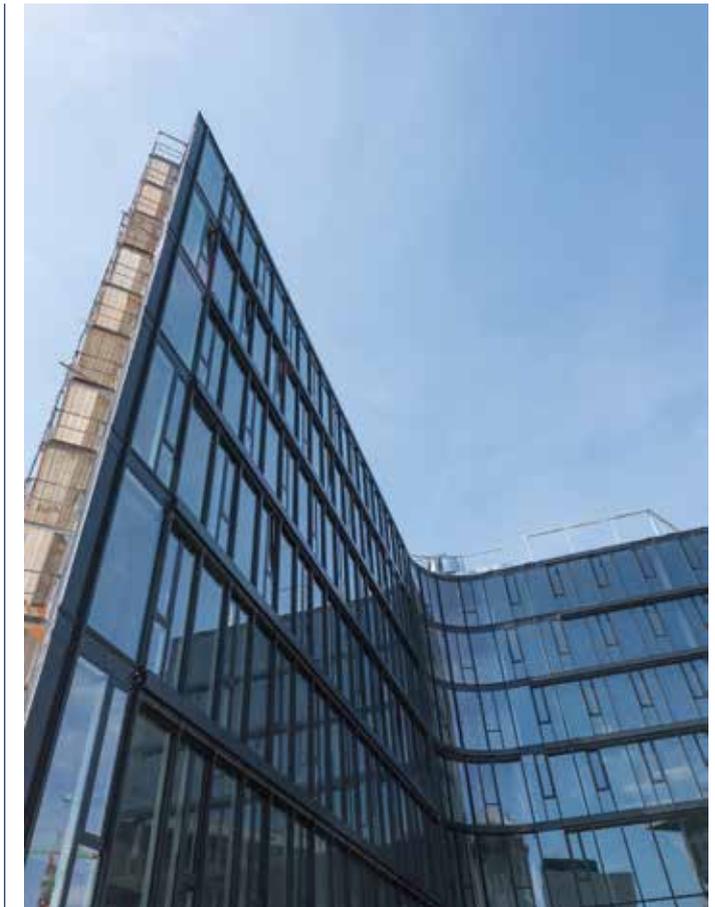
**P**de Integrale Planung combines years of experience in classic planning and design divisions with innovative methods such as BIM and LEAN management. When engaged for integrated design work, we guarantee that we will accompany our customers throughout the project life cycle, providing support in relation to technological, architectural and schedule-related challenges.

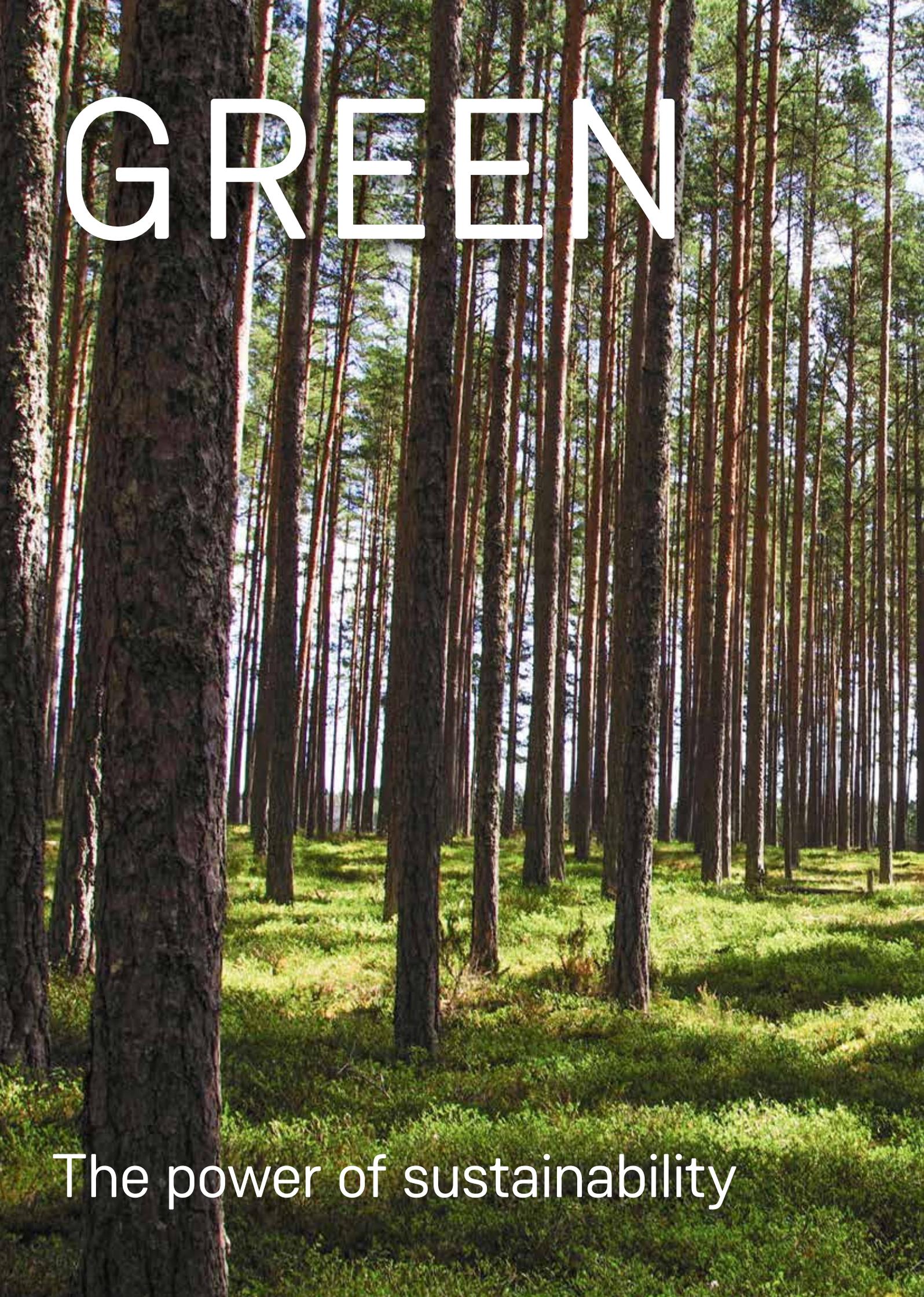
Integrated design involves close collaboration, not only in the course of general planning but also in relation to specialist teams in upstream and downstream phases of planning and execution. The application of LEAN methods and BIM facilitates this fluid exchange of data and information between the different people involved in a project. In the case of BIM 5D, everyone involved in a project works on a single digital model of a building that also incorporates the dimensions of time and costs.



LEAN methods provide for optimised communication and streamlined processes from planning to execution. Eliminating potential waste in advance and continuously throughout the construction process while analysing and defining all work steps in advance increases added value in a process. The result? Optimal quality, optimised construction time and lower costs.

Our team has more than ten years' experience in building certification and draws up plans to make projects as resource-conserving and climate-friendly as possible. This means that from the initial concept to implementation, ongoing operation to recycling, our projects deliver buildings that are exemplary in economic, ecological and socio-cultural respects. Ultimately, intelligent building also means embracing responsibility.



A photograph of a dense forest of tall, thin pine trees. The trees are arranged in a regular pattern, creating a strong vertical rhythm. The ground is covered in a lush green undergrowth of ferns and other plants. The lighting is bright, suggesting a sunny day, with some shadows cast on the forest floor.

# GREEN

The power of sustainability



SUSTAINABILITY



# ENVIRONMENTAL ENGINEERING

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Waste management, landfill and mining |

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Demolition and dismantling | Sewer rehabilitation

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and earthworks | Geothermal engineering and

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environmental lab | Assessment, decontamination

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and remediation of contaminated sites

# A sustainable future

Climate change is inescapable; it is a global challenge. It has utterly transformed our circumstances. Investment in the future is essential.

**G**reen building has become the market standard. Statutory requirements, global efforts to combat climate change, and national building codes are imposing more stringent requirements. The European Green Deal and the EU Taxonomy Regulation are driving the trend of climate-friendly construction with the aim of making Europe a climate-neutral continent by 2050. The construction industry can make a significant contribution, such as by expanding public transport networks, erecting wind turbines and building hydroelectric power stations. We need to transition to less-polluting vehicles and devices, and invest in production processes. Green energy is our future.

## **Future generations**

To build a sustainable future, we need to adopt a holistic approach in the present. We will have to rely on resource-conserving prefabrication. The building materials we use today can become raw materials for future generations. We must therefore design buildings so that as much as possible of the materials used to build them can be reused. With a new construction rate of 1–2%, it is evident that we need to rethink our relationship to existing buildings and associated infrastructure in order to link together the ecological, economic and social aspects of sustainability. And, of course, new buildings will have to meet these requirements in future.

## **Sustainable expertise**

In terms of technology, urban environments must also be almost completely supplied with renewable and, if possible, emission-free energies as soon as possible – and certainly before 2050. We must switch to a circular economy to mitigate our resource consumption, increase biodiversity significantly in urban areas, and adopt a far more attentive and conscious approach to freshwater reserves. These requirements must be expanded by topics such as the capacity of buildings and infrastructure to support power grid operation, mobility, and logistics.

## **Old to new**

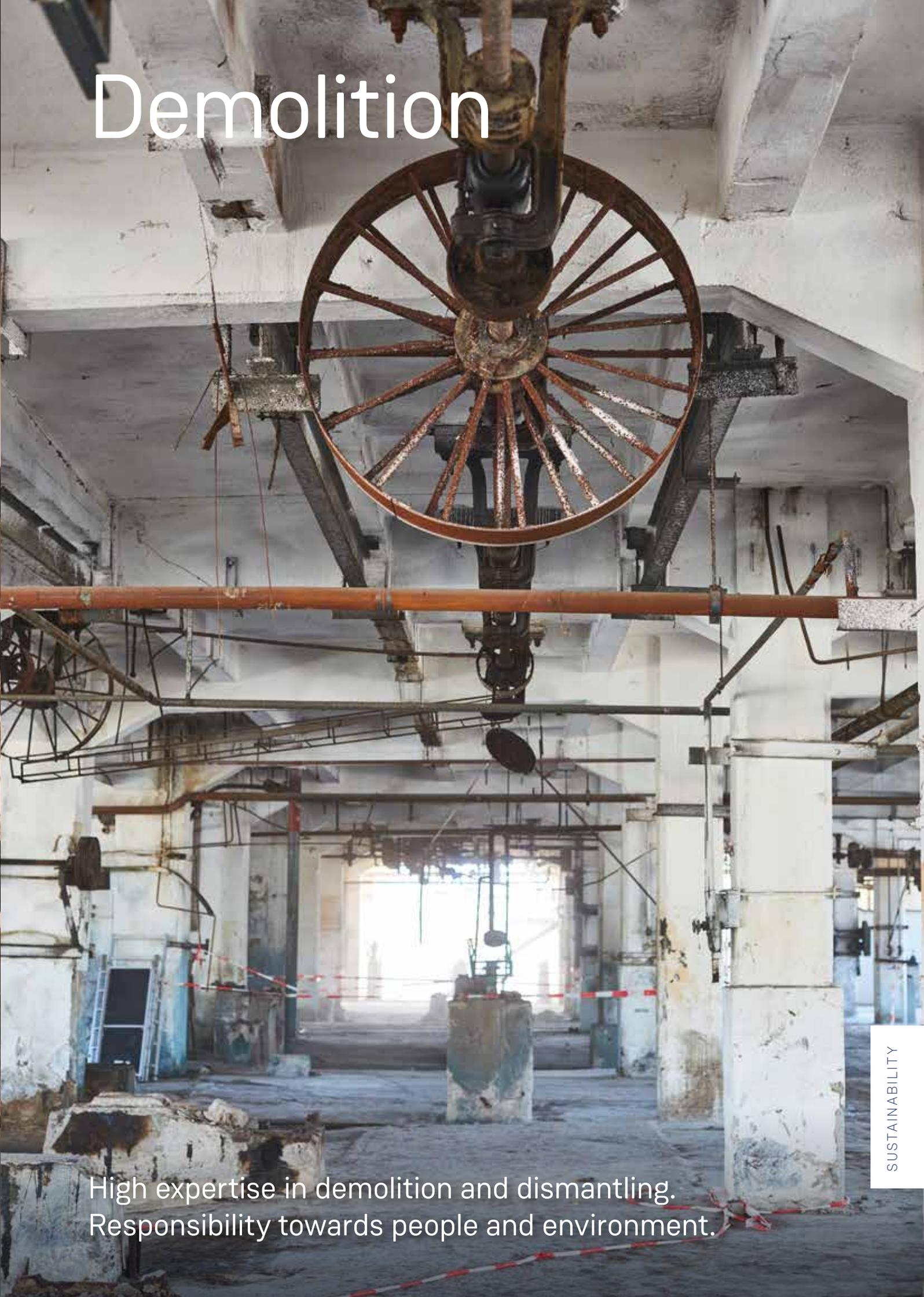
In addition to energy consumption, the greatest environmental impacts from the construction industry derive from the use of building materials. This can be countered by the principle of the circular economy: reuse, repair, recycle. Take, for example, the recycling quota for new asphalt, which even today is often higher than 20% – and yet must be increased. This is also evidence of a fundamental rule, namely that any company looking to create a sustainable future will have to be innovative but also rely on tried-and-tested methods. This means learning from experience. It means drawing on tradition. And it means embodying values developed over time, such as reliability, passion and pioneering spirit.

# Waste management



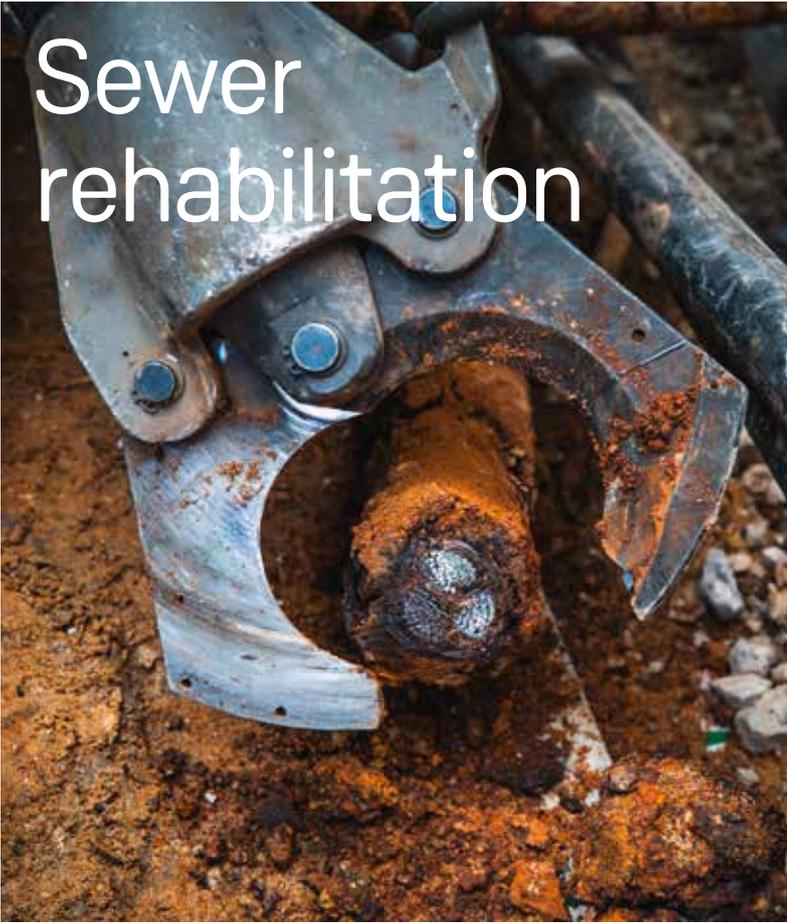
Customised materials cycle solutions. Waste processing, recovery, and landfill.

# Demolition

A large, rusted metal wheel mechanism, likely a pulley or part of a hoist system, hangs from the ceiling of a demolition site. The wheel is made of dark metal with many spokes and is surrounded by other industrial structures and debris. The background shows a large, open space with concrete pillars and a bright light source in the distance, possibly a window or an open door. The overall scene is one of industrial decay and demolition.

High expertise in demolition and dismantling.  
Responsibility towards people and environment.

# Sewer rehabilitation



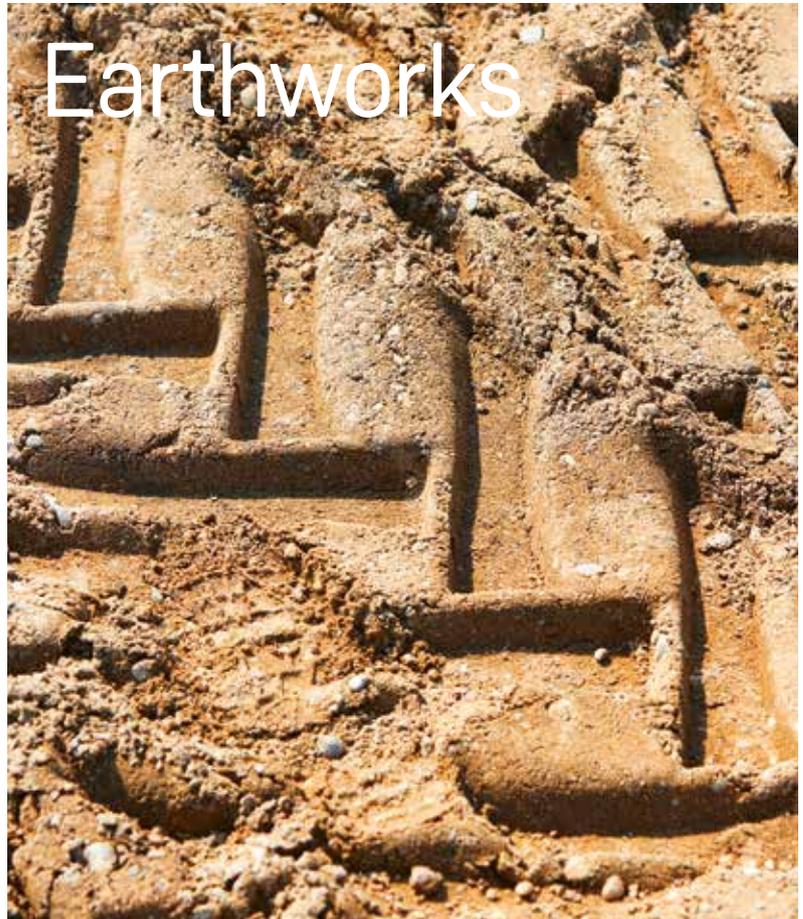
By using modern technologies and adapting to local and statutory requirements, PORR has been successfully executing wastewater engineering projects for more than 40 years. It has supplied a complete range of services from collection, rehabilitation and acceptance relating to wastewater, sewage systems and building drainage.

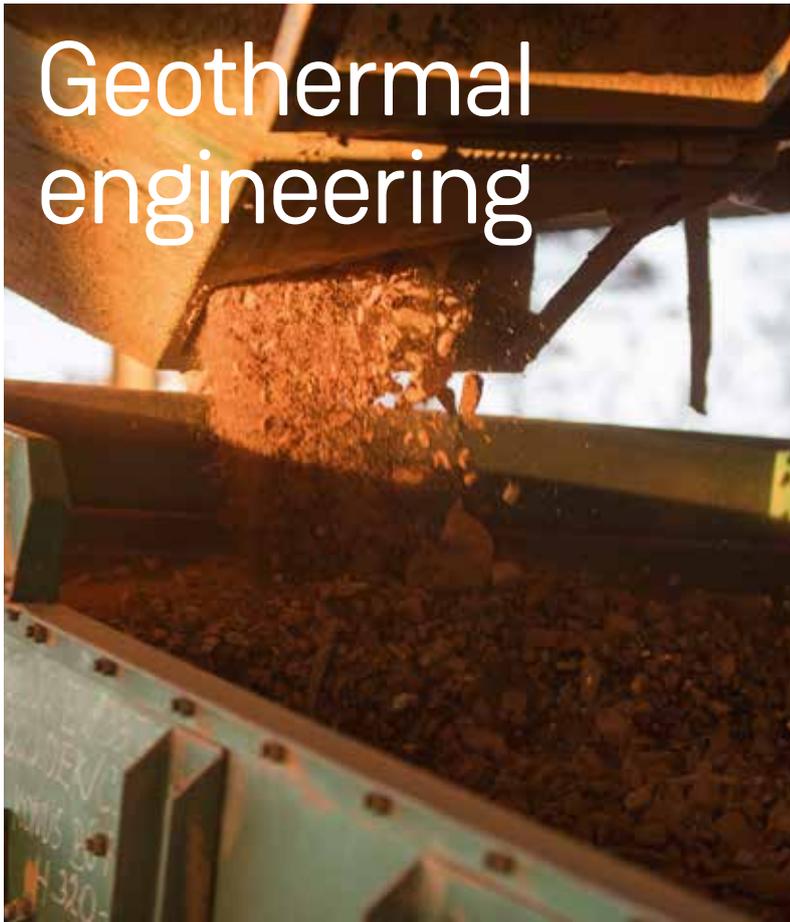
PORR has the years of expertise and state-of-the-art technologies needed to develop specifically tailored, and above all sustainable solutions. Our wide-ranging service portfolio includes sewer pipe repairs, sewer robotics, pipe lining, shaft rehabilitation, settling tank rehabilitation and pipe installation. Our specialised vehicles can provide combined suction and flushing services, perform maintenance on shafts and special constructions, and flush underground pipes and collecting mains from DN 50 to DN 1000.

From small-scale excavation to supplying and disposing of material and earthworks for various building construction and civil engineering projects, PORR offers an extensive portfolio of earthworks services. What's special about PORR is the fact we offer all these services from a single source, maximising the use of the internal value chain. This not only applies to work on construction sites but also to the transport services we provide with our extensive company vehicle fleet.

Regardless of their quality, almost all excavated materials are brought to our own landfills and waste treatment facilities. Recycled materials are often reused as secondary materials on construction sites. We apply our earthworks expertise, especially in highly complex construction projects run by major infrastructure providers such as Wiener Linien, Vienna's main transit network operator, and the Austrian Federal Railways (ÖBB).

# Earthworks





# Geothermal engineering

Demand for renewable energy sources is on the rise. Our response is geothermal engineering. This involves using engineering technologies to exploit the heat stored in the Earth's crust. Geothermal energy represents a long-term energy source that can, for example, be used for heating for buildings.

The specialists at PORR Umwelttechnik have been working for many years to implement renewable energy and geothermal systems as alternative means of heating and cooling buildings. PORR Umwelttechnik was also involved in one of Austria's largest geothermal engineering projects, Austria Campus, from submitting bids to detailed design and construction.

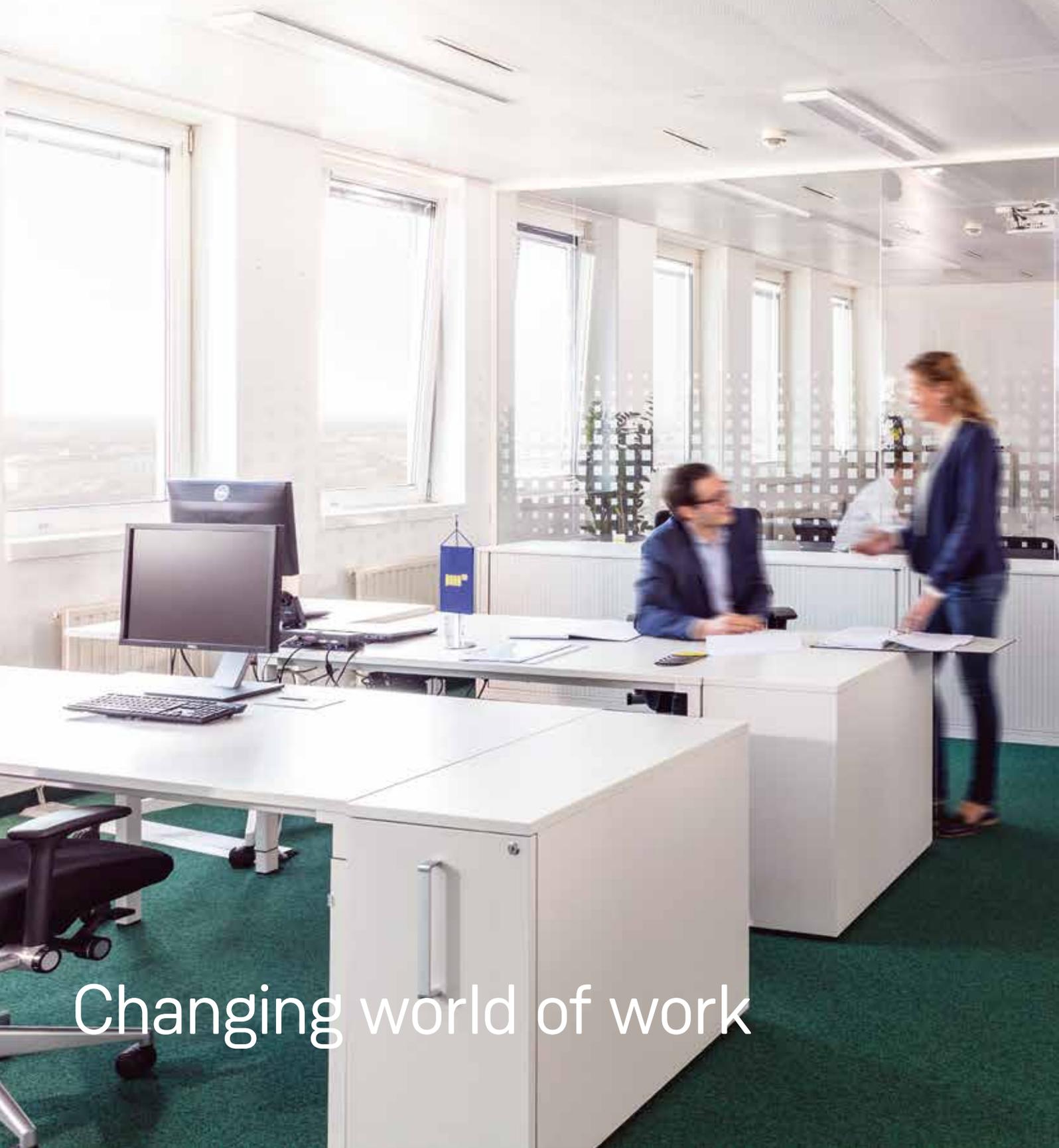
If you care about the environment, then you need reliable test reports. PORR's environmental laboratory precisely evaluates environmental situations so that the right decisions can be made. The lab's highly qualified staff use state-of-the-art equipment to conduct chemico-physical analyses of water, solid material and soil air samples. The results of these tests can then be directly incorporated in expert reports.

Our numerous projects range from determining measures to remediate environmental pollution to developing waste treatment processes and classifying materials for landfill. We examine adherence to official water management limit values for leaching and the discharge of liquids into sewers.



# Environmental laboratory

# NEW WOR



Changing world of work

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NEW WORLD OF WORK



# NEW WORK

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The basis of our success: Our five principles |

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Education and training | Equality and appreciation |

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Health and safety | Diversity and culture

# The next-generation world of work

Nowadays, companies have to be extremely flexible and offer an array of opportunities. This will continue in future. Companies who fail to do so will have lost the battle to attract the best minds.

**W**ith buzzwords and concepts like New Work, the Future of Work and Work 4.0, the world of work is undergoing fundamental transformation. The main drivers are digitalisation and the market globalisation. There are also growing calls for new forms of working. Work should be meaningful; it should be more than just a job. People want to realise their potential. They want to develop, both personally and professionally. Less of a job, more of a vocation.

## **Flexibility and open-mindedness**

Modern offices increasingly offer flexible workspaces, serving both as communication centres and as open spaces for ideas and concentration. This creates a blend of traditional and agile organisational structures. Rigid regulations are being replaced with flexible working-time models. Physical workplaces are also being supplemented with desk-sharing concepts and opportunities to work from home. Artificial intelligence will be part of the team in future. In addition to flexible and project-based work, integrated and networked thinking will also be required in future and will engender increased agility.

## **Digitalisation and automation**

Digital networking is a key driving force behind the New Work megatrend. Remote working will in-

creasingly become the norm and therefore represents a key challenge for organisational development. In addition to new business models, work processes are also gaining a new quality.

Digital technologies such as building information modelling (BIM) and LEAN management methods are making processes more efficient and transparent throughout the entire project cycle. They enable a new form of information sharing between people involved in a project. All of this facilitates communication, simplifies joint decision-making processes and thereby also saves time.

Being ready for the future means preparing accordingly at an early stage. Jobs are changing and educational institutions are rethinking their approaches. Core competencies and key functions will be reorganised and expanded. Companies must be open-minded, flexible and appreciative; they need to react to changes with forward-looking concepts and carefully considered training and development programmes. This is especially true for the construction industry, where the lack of skilled workers represents a particular challenge. Ultimately, one thing will never change: companies must always focus on people – because people are the key to success.

# PORR Campus



We train the specialists of tomorrow at the training and development centre of the future.

# Apprenticeship



We show loyalty and support to our employees. From the first steps and throughout a long, successful career.





# Our five principles

Reliability  
Shoulder to shoulder  
Appreciation  
Passion  
Pioneering spirit

**W**e promote a culture of cooperation. At PORR, around 20,000 hidden champions give their very best every single day. They build with passion, work shoulder-to-shoulder, and demonstrate reliability, appreciation and pioneering spirit. They embody the five principles of a corporate culture that connects us all. Yesterday, today and tomorrow. Their expertise, ideas and dynamism can move mountains. This approach ensures we never lose focus and are often ahead of our time. Reliability lays the foundations for responsible cooperation. PORRians appreciate, accept and support one another. They stand shoulder-to-shoulder and think outside the box in every phase of business development. With their pioneering spirit and passion, they are always one step ahead. This is our corporate culture and the basis of our enduring success. It is who we are.

**A** diverse future with equal opportunities for all. High standards of occupational health and safety. A healthy work environment, both in the office and on construction sites. This is what we stand for at PORR. Health and safety are our top priority. We know that promoting our employees' all-round wellbeing is a fundamental prerequisite for our success.

Our training courses therefore help to reduce the incidence of accidents and permanently improve workplace safety. This is the only way we can achieve Vision Zero – no accidents in the workplace. Our workplace health promotion system includes numerous initiatives and measures – such as benefit plans, health days and sports facilities – that address health-related needs and thereby improve the work environment for every single member of our workforce.



Diversity drives us forward and secures our long-term success. Our We@PORR initiative aims to secure skilled workers over the long term and promotes innovation through heterogeneous teams at all hierarchical levels. Every person has equal opportunities to achieve their professional potential at PORR, whatever their gender, age, ethnic background or religion. All of this makes PORR the 'Best Place to Work'.

PORR has been named a Diversity Leader by the Financial Times and has signed up to the UN Global Compact and the UN Women's Empowerment Principles. We are committed to raising awareness of women's issues, drawing attention to them and sharing experiences. Our active focus on increasing the proportion of women at all levels of the company hierarchy sets us apart in the construction industry.



# Building is a people business.





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