

von Gerkan, Marg
and Partners
Architects

Communication on Progress
Sustainability Report



Contents

3	Editorial
5	Transportation Centers of Tomorrow (Werner Sobek)
6	2021 in Facts and Figures
8	Entering the Future with Renewed Energy. Headquarters of SachsenEnergie, Dresden, Germany
10	Networked Transportation
18	From Gray Energy to Gold Energy. Pressehaus am Alexanderplatz, Berlin, Germany
20	gmp Gets Vaccinated
22	Parties and Evening BBQs
24	Bike to gmp
26	To the Stadium by Tram. Stade de Luxembourg
28	Megathek Hamburg & Forum Bildende Künste. aac Academy for Architectural Culture
32	Sheltererd by the Lion Mountains. Suzhou Museum West, China
34	Building Culture
36	Green Dialogue
40	CO ₂ Footprint
42	The 10 Principles of the United Nations Global Compact
47	Imprint

Editorial

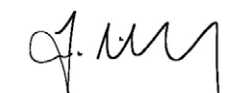
Critical global developments in recent years continued with the horrific war in Ukraine that overshadowed the reporting period. Despite the current social and economic fallout, our primary and overarching task as architects is to formulate answers to the question of how we will have to build in the future in order to achieve the set climate goals.

Our office is pursuing a strategic position that above all focuses on retaining and converting existing building substance. We've also established and will continue to establish funding programs in the office and in our academy that confront the challenges of sustainable building.

The work of gmp targets the comprehensive durability of architecture. This includes global challenges and issues like urbanization, digitization, and mobility, as well as construction that accounts for climatic conditions and building in existing contexts. Sustainability is an integral, core value of our planning that is evident in the quality of our designs.

With this report, we are affirming our ongoing and unconditional support for the UN Global Compact and are renewing our commitment to this initiative and its principles. This steady progress would be impossible without our most important mainstays – our employees. Trust, solidarity, and ingenuity as well as the communication of a sense of purpose and a focus on goals are the foundation of our office community.


NIKOLAUS GOETZE


HUBERT NIENHOFF


STEPHAN SCHÜTZ


WU WEI

Transportation Centers of Tomorrow

Emissions-free travel results in a new future for railway stations

To achieve a sustainable and emissions-free society, we're all going to have to significantly alter our travel behaviors. Electrically driven systems, whether on wheels or rails, will gradually replace vehicles with combustion engines. Air traffic will decline, in large part due to its production of water vapor at high altitudes and the associated greenhouse gas effect. Long distances with travel times of five to six hours will be the domain of high-speed trains. Whether long or short distances, whether individually or via mass transit systems, the transportation hubs in this new world of travel will be gradually transformed into intermodal interfaces on which the movement of large numbers of people from place to place will depend, making them a condition for the stability of many social processes over time.

Because today's railway stations are already interconnecting long and short routes as well as inner-city rail transport, they will be part of the new transportation hubs. However, linking rail traffic to electric road systems like bicycles, cars, or buses will demand too much of existing railway stations. New facilities for the leasing, parking, repair, and cleaning of road vehicles must be established in close proximity and connected to existing railway stations to form an overall system as part of the city. Thanks to this concentration in urban centers, there's a possibility of creating communal functions that go beyond the usual anonymous, transitory uses. The new transportation systems are also very quiet as well as emissions-free. The elimination of these previously detrimental factors makes room for brand-new opportunities that must be seized and supplemented with suitable qualities. Rapid movement will be coupled with stillness, travelers' self-centered autonomy with

social interaction, fast food with slow dining, hasty shopping with leisurely strolls through the stores, and even the integration of cultural institutions and high-caliber overnight accommodations. In this way, the transportation hub of tomorrow will also become a sociocultural hub in the cities.

gmp Architects has been involved in the creative work of expanding and transforming inner-city transportation hubs into socioculturally vital and high-quality zones for many years. Designed by gmp, Berlin Central Station is a fabulous, successful example of these efforts to further the architectural development of the city. So it makes perfect sense that gmp would devote its sustainability report to the topic of transportation and we can look forward to new ideas and initiatives with global relevance.



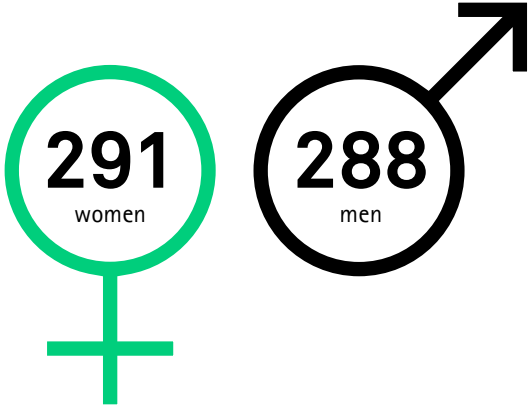
Prof. Dr. Dr. E.h. Dr. h.c. Werner Sobek
Founder and Chairman of the Supervisory
Board of Werner Sobek AG



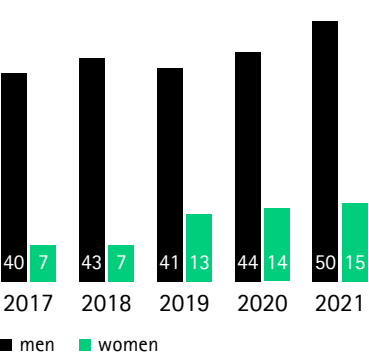
2021 in Facts and Figures

579

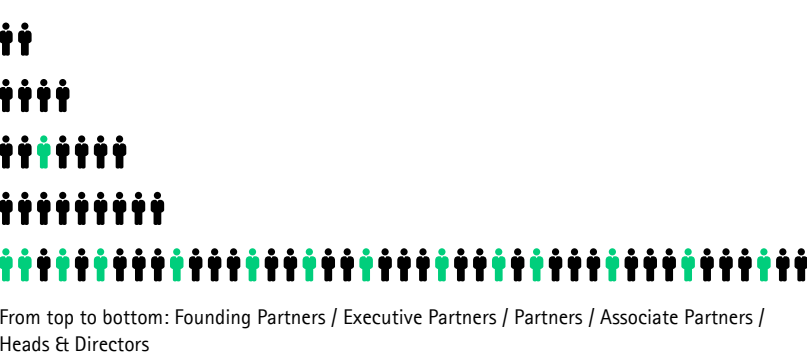
employees
excluding interns and freelance colleagues



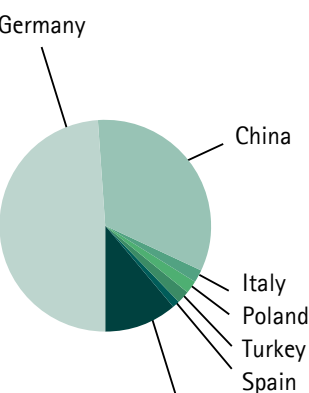
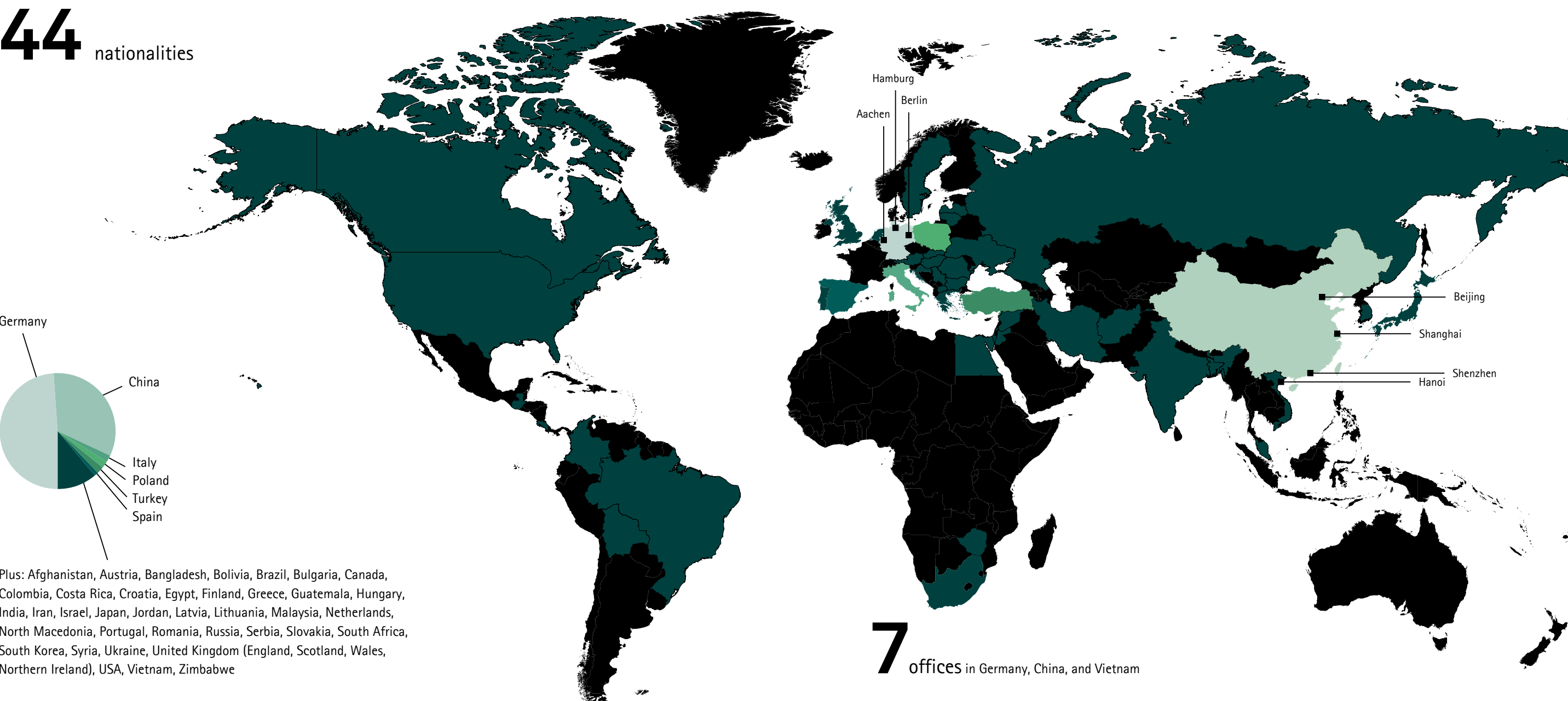
gmp management



Distribution by management level 2021



44 nationalities



Plus: Afghanistan, Austria, Bangladesh, Bolivia, Brazil, Bulgaria, Canada, Colombia, Costa Rica, Croatia, Egypt, Finland, Greece, Guatemala, Hungary, India, Iran, Israel, Japan, Jordan, Latvia, Lithuania, Malaysia, Netherlands, North Macedonia, Portugal, Romania, Russia, Serbia, Slovakia, South Africa, South Korea, Syria, Ukraine, United Kingdom (England, Scotland, Wales, Northern Ireland), USA, Vietnam, Zimbabwe

7 offices in Germany, China, and Vietnam

Entering the Future with Renewed Energy

Headquarters of SachsenEnergie, Dresden, Germany

The headquarters of East Germany's largest utility corporation forms an important element of Dresden's city skyline. The building complex with one thirteen-story and one eight-story tower is in keeping with the urban context around the main railway station. The high-rise to the south of the inner city is a visible landmark that conforms to the city of Dresden's new town planning guide for high-rise buildings. The new office building with over 900 workstations complies with high sustainability standards and has been awarded DGNB Gold certification. Sustainable cooling and ventilation measures were planned to increase energy efficiency. Charging stations are provided for SachsenEnergie's electric vehicles and its employees' eBikes. Numerous newly planted trees and shrubs improve the climate resilience of the city center. The surfaces of the outdoor areas are designed so that precipitation can infiltrate into the soil. Thanks to the high degree of prefabrication and painstaking planning and management of the construction processes, it was possible to achieve a short and commercially viable construction period of only 22 months. Inside the buildings, the adjustable floor plans support the versatile organization of modern work environments. The two roof terraces on the sixth floor between the towers offer employees and visitors to the company a special meeting point with a view of Dresden.

Negotiation procedure 2017 – 1st prize | Client SachsenEnergie AG, Dresden | GFA new building 27,193 m² | Completion 2022 | Certification DGNB Gold



Networked Transportation

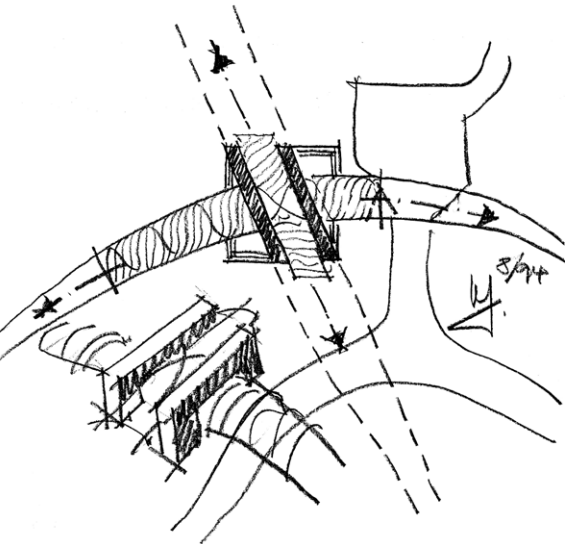
"Transit-Oriented Development" as an urban development initiative

Transportation establishes a connection through time and space. The task of the architect is to spatially arrange and formally design this interconnection of the world so as to inspire the sustainable urban design of the future. Thanks to extensive experience in building airports and railway stations, gmp is an important contributor to Transit-Oriented Development (TOD). Sometimes transportation structures write architectural history. That's what happened over the course of two weekends in the summer of 2005 in Berlin. To the public's amazement, the two sections of the transfer structures of the new Berlin Central Station designed by gmp were lowered at a rate of six meters per hour across the new railway bridge, leaving only a tiny two-centimeter gap to be closed between

the massive building components. It was an architectural and engineering tour de force. As one of the most complex transportation structures of its day, it also heralded the future of urban planning in terms of the development of a diverse quarter. Berlin Central Station isn't just the intersection between aboveground and underground railway lines for inner-city, regional, and domestic rail connections. Between track levels, the concrete, steel, and glass transportation structure with its two arched frames also provides space for commercial trade and restaurants. Over the past 15 years, a new urban

area has developed around the Central Station that overlooks the government district in the heart of the German capital. The heavily used transportation structure has proven robust and its transparency is still surprising to this day, providing visibility from the top level to the bottom and vice versa and making the Berlin Central Station a classic example of the Transit-Oriented Developments (TODs) that are currently emerging worldwide. In these TODs, the various traffic flows and uses are bundled together to achieve sustainable, location-related synergies and inspire new initiatives for urban development. Starting with the industrialization of Europe in the 19th century, an unprecedented acceleration of traffic flows has taken place. The improvement in mobility has formed the basis for the

"TODs are all about the interconnection and interlacing as well as the unbundling of traffic and the creation of urban density. The role of cars is practically nonexistent. Instead, it's a matter of net-working the different means of public transportation to form hubs. The greater the degree to which the traffic is linked, the greater the urban density at these locations. Development culminates in the disappearance of the transportation structure, the disappearance of the railway station itself." Stephan Schütz



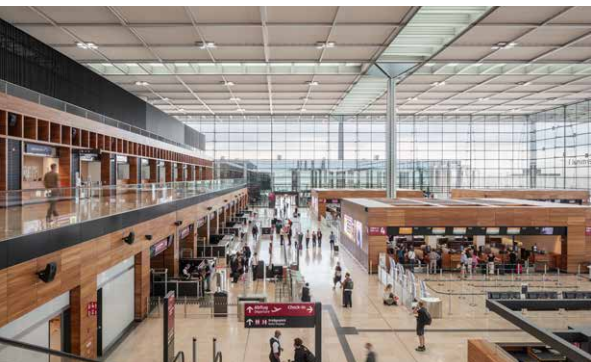
Berlin Central Station, sketch,
Founding Partner Meinhard von Gerkan



Berlin Central Station, 2020



Hangzhou South Railway Station, China



Berlin Brandenburg Willy Brandt Airport, Germany



Fengtai Railway Station, Beijing, China

"Our goal in upgrading existing railway stations is to make it so that people no longer wait on crowded platforms, but in the adjacent 'marketplace' instead. By attractively extending the surroundings and condensing the traffic routes, we give the railway station new programmatic responsibilities. It becomes more animated and safer, thanks to attractive commercial and restaurant spaces, services, offices, and even cultural facilities. A bustling 'marketplace' is the DNA of a functioning TOD." Nikolaus Goetze

"The concept of the TOD is a rapidly growing trend that creates lively, livable, and sustainable urban developments. TODs are an important solution to the serious and growing issues of climate change and global energy security because they create dense, pedestrian-friendly districts that greatly reduce the need for private transportation and energy consumption." Marc Ziemons

economic development of a globalized world. The shortening of travel times between locations has increased the population's connectivity to remote places. As built landmarks, railway stations have been the architectural symbols of this development. They've served as places of arrival and departure and have become distribution points for all manner of goods. At the same time, they've precipitated the establishment of new suburbs that have extended historic city centers. Nowhere has this special character of travel and welcome been more directly embodied than in the Gare de Lyon in Paris with its legendary "Le Train bleu" restaurant. At the start of the 21st century, the requirements for transportation hubs like airports and railway stations on the technological level changed completely, but they remained unaltered on the emotional level. The Tianjin West (2011) and Hangzhou South (2018) stations as well as Fengtai Station – Beijing's largest railway station, a hub designed

by gmp that encompasses an area of about 75,000 square meters – exist to carry this traditional modernist building task into the future. The goal is to create locations that optimally connect the various means of transportation while at the same time making them easy to navigate and extremely safe for travelers. The greater the number of means of transportation and supporting functions that are interwoven in one location, the more complex the control of these traffic streams becomes. This is demonstrated by the Qianhai Integrated Transport Hub which, starting in 2024, will interconnect the city of Hong Kong, the Hong Kong railway station, and Shenzhen Airport. It will be an international hub with an underground railway station for high-speed trains and local direct service that establishes a separate district with new, up to 300-meter tall high-rises.

The functional parameters form the basis for planning any TOD. The shorter the distances between the transportation hub and the surrounding residential, work, and shopping areas, the less time and energy are required to reach them. Integrated hubs that successfully combine the different requirements and means of transportation are by definition more sustainable than far-flung urban functions that require additional traffic and energy.

The functional development and control of structures with high passenger flows, especially at peak times, is only one side of the architectural task. The other side is to define the look of the appropriate architectural design. The goal is architecture that enables both well-being and orientation, that people enjoy using and will be happy to revisit. The French ethnologist and anthropologist Marc Augé has called large, modern transportation structures like airports "non-places." These are buildings whose significance is limited to their specific function, places with a random aesthetic that have no local landmark quality and are interchangeable worldwide. But in TODs the opposite appears to be true. There, architects can optimally implement the eight criteria for a "high-quality Baukultur" as formulated by the Davos Declaration 2018 (Governance, Functionality, Environment, Economy, Diversity, Context, Sense of Place, Beauty). Depending on whether the location is a city center or a new



Chengdu Future City, China

"Unlike urban centers developed in the past, TODs can also be hotbeds and catalysts for urban and economic development, serving as flagship projects in economically underdeveloped regions. These urban structures, which are well integrated into the infrastructure and densely designed but at the same time high-caliber, are then given an architectural 'face' in the form of a distinctive identification point – usually the transportation hub." Jan Blasko



Lingang Avenue Station City, Shanghai, China



Qianhai Bay Integrated Transportation Hub, Shenzhen, China

"Railway stations are emotional places of arrival and departure but are also important locuses of first impressions of cities and districts. That's why it's essential that they have recognition value, an identity related to the place." Hans Joachim Paap

development outside the urban area, it's possible to introduce location-specific requirements. This also includes reserving space for future changes in mobility behavior – for example, for drones or self-driving vehicles. The issue of local references and identity formation is reflected in multiple aspects of BER, Berlin's new major airport designed by gmp and opened in 2020. These aspects range from form-finding for the abstract colonnades that embrace the idea of Prussian Classicism to the materials used and the pine trees in the outdoor areas that are typical of Brandenburg. At the same time, however, regional references must always be accompanied by a transparency and safety made possible by intuitive circulation that travelers

can experience subjectively. BER fosters both transparency and a sense of safety, thanks to the terminal building's liberal glass facades that allow a great deal of natural light to penetrate into the building. Passengers are also better able to orient themselves within their surroundings than they would be in a more enclosed building. Identity, beauty, context, and a sense of place also contribute to the design of an ostensibly subordinate location within the airport – the non-denominational chapel with its brick architecture that also adopts motifs from Brandenburg architecture. By linking different modes of transportation, the airport achieves a functional and traffic-oriented sustainability. These modes of transportation ensure that BER is only a 20-minute train ride away from Berlin Central Station in the city center. The influence of the BER TOD has only just begun with the recent establishment of offices by companies such as Tesla (and potentially Google)

in Berlin, and it will continue to be felt in the decades to come. It will largely be the responsibility of good policies to suitably promote the economic development of the locations through smart design requirements as defined by a high-quality building culture.

Jürgen Tietz

For his essay "Networked Transportation," author and journalist Jürgen Tietz interviewed Nikolaus Goetze (Executive Partner), Stephan Schütz (Executive Partner), Hans Joachim Paap (Partner), Marc Ziemons (Partner), Jan Blasko (Associate Partner), and Tobias Keyl (Associate Partner) on the subject of old and new Transit-Oriented Developments by gmp.

"To reduce carbon emissions, we have to optimize the way we use our means of transportation and increasingly switch from airline to train travel. As designers of these spaces, it's our responsibility to make them suitably attractive so that people will be motivated to support this trend. My favorite detail of Berlin Central Station is the broad wooden guardrails. They remind me of the sofa cushion in my grandma's window, where she leaned out to watch what was happening in the street. Berlin Central Station celebrates the scene of urban life." Tobias Keyl



STRÖER

DATEV

ROSSMANN
über 1200 x 100 cm Glasfronten

arko

Berlin Central Station, Germany



From Gray Energy to Gold Energy

Pressehaus am Alexanderplatz, Berlin, Germany

The appreciation and preservation of Late Modern architecture as historic monuments is on the rise. This includes the former building of the Berliner Verlag publishing house, which dominates Alexanderplatz at the heart of Berlin. With the refurbishment of the building ensemble, the 17-story, 92-meter-long high-rise section has retained its original, vertically oriented facade structure. All hazardous materials have been removed and disposed of by type. The installation of decentralized ventilation systems that permit maximum influence over usage times and power requirements now makes it possible to optimize energy consumption over the building's lifetime. The former Pressecafé was once again rendered usable and the characteristic exterior mural by artist Willi Neubert was uncovered. The roof for technical services installations that was originally inaccessible is now a public roof terrace. The "New Podium" designed by gmp forms a single unit with the high-rise and Pressecafé in terms of both form and function without diminishing their importance as monuments. In addition to retaining the gray – meaning resource-related – energy, restoration of the historic components and works of art strengthened the ensemble's identity. In line with the Federal Foundation of Building Culture (Bundestiftung Baukultur), energy is turned from "gray to gold."

Direct commission 2016 | Client Tishman Speyer Properties Deutschland GmbH | GFA 37,600 m² | Completion 2020 | Certification LEED Gold

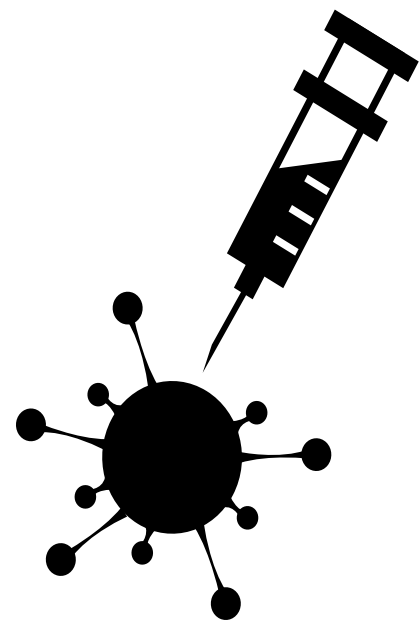


gmp Gets Vaccinated

COVID vaccination

Once people in the top priority groups in Germany had been vaccinated, companies were able to offer their employees vaccinations administered by company physicians. gmp also took advantage of this opportunity. Our offices in Hamburg and Berlin offered first doses on the same day, June 15, 2021. Once the second dose had been administered – July 13 in Hamburg and July 27, 2021, in Berlin – everyone who wanted to be fully vaccinated had been. In Aachen, the vaccination campaign had already progressed to the point where there were only five employees who still needed the company physician to give them their shots. At

our Chinese offices in Beijing, Shanghai, and Shenzhen, colleagues headed to the vaccination stations set up in many parts of those cities, without the need to make an appointment. gmp's employees in Hanoi had to wait the longest, but were finally vaccinated on July 26, 2021.



Parties and Evening BBQs

Office culture in exceptional times

After the coronavirus pandemic forced us to hold the 2020 cross-location, end-of-year celebration in Germany as an exclusively virtual event via Teams, we had high hopes that we would be able to come together again for our traditional summer parties at the locations in 2021. But although it was once again possible to organize events thanks to lower infection rates and higher vaccination rates, celebrations like those we had before the pandemic were not yet feasible. The different German offices were able to hold a variety of smaller and more intimate summer events that complied with the restrictions of the particular states. Our Aachen colleagues hosted a barbecue with the theme

"Stand together" on the roof terrace of the gmp office overlooking the cathedral and city hall. Our Berlin colleagues celebrated with a get-together at the Schleusenkrug beer garden in Tiergarten. Meanwhile, the Berlin office band "The Hard'n Burgers" resumed rehearsals and shared its music with the entire team via the Intranet. The various teams in Hamburg spent a number of smaller but no less celebratory summer evenings together.



Bike to gmp

International Bike to Work Day

Bike week – According to the results of our in-house mobility survey for 2020, public transportation was used less during the pandemic than previously. To encourage new and habitual motorists to behave more sustainably, all gmp employees were urged to participate in a "bike-to-work day."

Over the course of a week in May, they would leave their cars at home, bike to the office, and post their cycle routes on our Teams channels. More than fifty people from Hamburg, Berlin, Aachen, Shanghai, and Beijing took part. They cycled a total of 413 kilometers on their commute to work alone, saving 100

kilograms of CO₂e compared to the same commute by car. In addition to learning about many inspiring bike routes, we also received many suggestions on how the gmp offices could be made more bicycle-friendly.



<div>50</div> <div>participants</div>	<div>413</div> <div>km total</div>	<div>9</div> <div>km average</div>
<div>5</div> <div>offices</div>	<div>30</div> <div>km longest route</div>	<div>100</div> <div>kg CO₂e saved</div>

To the Stadium by Tram

Stade de Luxembourg

With the construction of the new national stadium in Luxembourg, the features of sustainable building were an important part of the planning process from the very beginning. The new national arena is bordered to the south by a newly planned road and tramway connection that has created a central traffic and interchange hub close to the stadium. To keep the building's overall power consumption low during operation, all the lighting systems were equipped with dimmable LED lights for optimal illumination, thus allowing the playing field and facade lighting in particular to be optimally programmed for different usage scenarios. Thanks to the use of highly efficient insulation systems in combination with a central heat recovery ventilation system, the building is categorized according to the low energy standard. In addition, the heating system runs on wood pellets and a 30 kWp photovoltaic plant covers basic power requirements. In order to optimally exploit rainwater as a natural resource, the rainwater that's collected in a catch basin is treated and used to water the playing field.

Negotiation process 2016 | Client Ville de Luxembourg, Direction de l'Architecte, Service Bâtiments | GFA 25,475 m² | Number of seats 9,900 | Completion 2021



Megathek Hamburg & Forum Bildende Künste

aac Academy for Architectural Culture

PUBLIC MEETING PLACES

In 2021, the aac fulfilled its task of education and research with two workshops on the further development of public meeting place typologies.

The aac workshop "Megathek Hamburg: Digital Center for the Hanseatic City" explored the future use of inner-city bank premises as a public city component that offers inspiration for the appropriation of digital capabilities. The aac workshop "Forum Bildende Künste: Concepts for a Central Entrance Building at the Kulturforum Berlin" focused on the further development of introverted museum buildings to form intuitive sites for meeting and education.

With the results, the aac introduced approaches to public spaces that understand meeting zones as parlors of the urban society. A welcoming quality and incentives for learning without the pressure to consume redefine the meaning of the urban destination.

aac-WORKSHOP

Within a period of 24 days and through vigorous design work, internationally diverse groups of four students each formulate their contribution to an architectural topic that has relevance for the future. Supported by personal tutors and under the guidance of a gmp Executive Partner, the designs are further developed in panel discussions with renowned guest architects. In the workshop rooms of the aac in the former nautical school at Rainvilleterrasse in Hamburg, various solutions are developed and elaborated in teams. At the start of each processing period, an excursion provides an opportunity for the students to familiarize themselves with the basic fundamentals of the task, the site, and the task context. On-site visits to a series of relevant reference buildings reveal the task in terms of its social application. While putting a great deal of effort into preparation and implementation that complied with the

applicable pandemic restrictions and additional preventive measures, the aac once again managed to guarantee successful exchanges and encounters between scholarship holders and to host events for the public in 2021.

aac ACADEMY FOR ARCHITECTURAL CULTURE

The aac Academy for Architectural Culture is located at the Rainvilleterrasse campus in Hamburg. With research studies and intensive courses held throughout the year, it is dedicated to finding solutions to relevant architectural issues and further educating young architects from different cultures. The aac carries out the mission of the gmp Foundation, which is to support the education of students and graduates as well as research in the field of architecture and landscape design at home and abroad. The gmp Foundation was established in 2007 by the architectural firm of von Gerkan, Marg and Partners (gmp) in Hamburg.



Enno N. Maass
Managing Director
aac Academy for
Architectural Culture



Workshop results "Forum Bildende Künste"



Workshop results "Megathek Hamburg"



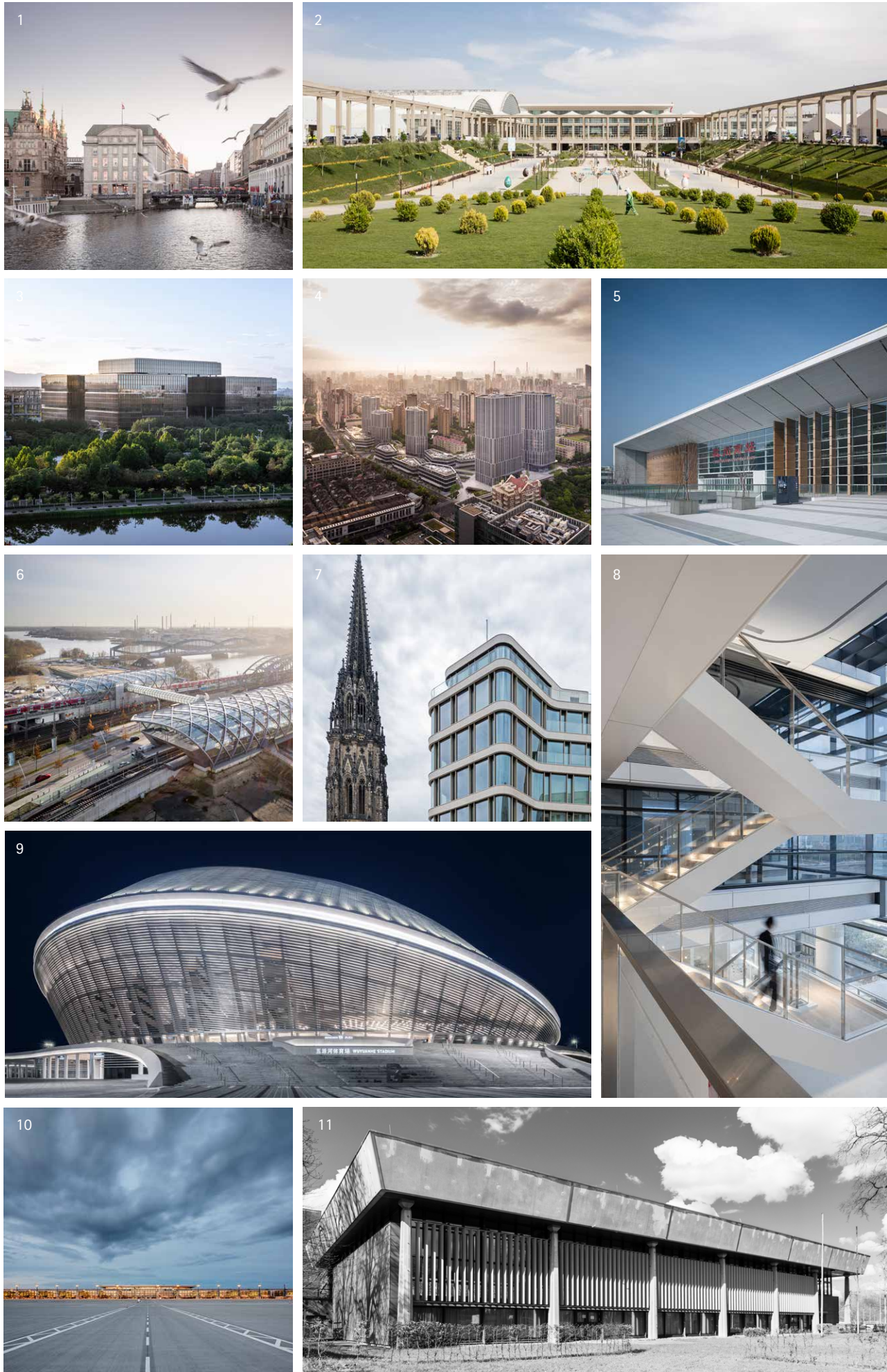
Sheltered by the Lion Mountains

Suzhou Museum West, China

With Suzhou Museum West, the city is creating a new museum location. Like its older counterpart, the museum's design concept is based on an interlacing of architecture and nature. With its artificial lake, the new park-like area before the panoramic Lion Mountains will become the center of the business district. The museum is made up of ten cubes measuring 25 meters on each side and arranged to form an entrance area facing the Lion Mountains to the west. The entrance cubes welcome visitors with a full room height of 29 meters. Subdivided into three stories, these cubes are grouped around an atrium that receives daylight from fenestration bands in the roof. The basement contains a restaurant, cafeteria, auditorium, and several halls for temporary exhibitions. The building cubes are supplemented with sunken Chinese gardens that recall the famous gardens of Suzhou. The water surfaces and green spaces provided create a pleasant microclimate and enhance the user's well-being. Durable and robust materials are used, including the light-colored limestone on the exterior and interior walls and the wood parquet flooring. The light-colored facade design ensures a reduction in thermal loading during the summer months.

Competition 2017 – 1st prize | Client Suzhou City Planning Bureau, High-Tech Zone Bureau | GFA 48,300 m² | Completion 2021





Building Culture

The awards, competitions, and declarations as historic monuments in 2021 attest to gmp's sense of responsibility for high-quality building culture on both the national and international level – from office buildings, conference centers, cultural buildings, and universities to hospitals, sports facilities, railway stations, and airports.

PRIZES

- › Alter Wall 2-32, Hamburg, Germany **(1)**
Building of the Year 2020
- › New Trade Fair, Tehran, Iran **(2)**
Prize of the "Mizan Architecture Event in 1400"
- › Asia Financial Center & AIB Headquarters, Beijing, China **(3)**
CTBUH Awards 2021
Category: Best Tall Building under 100 meters 2021 and
Category: Best Tall Building Asia
- › Poly Greenland Plaza, Shanghai, China **(4)**
CTBUH Awards 2020
Category: Urban Habitat – District/Master Plan Scale
- › Hangzhou South Railway Station, China **(5)**
DAM Preis for International Project
- › Elbbrücken Train Station, Hamburg, Germany **(6)**
European Steel Design Award
- › Office Building, Grosser Burstah, Hamburg, Germany **(7)**
Building of the Year 2020
- › vip.com Headquarters, Guangzhou, China **(8)**
ICONIC AWARDS 2021: Innovative Architecture
- › Haikou Wuyuan River Sports Park, China **(9)**
Deutscher Lichtdesign-Preis 2021, Category: International Project, Category: Germany
- › Airport Berlin Brandenburg Willy Brandt, Germany **(10)**
Prix Versailles – The World Architecture and Design Award, Special Prize Interieur
Category: World Airports

LISTED AS HISTORIC MONUMENT

- › Stormarnhalle, Bad Oldesloe, Germany **(11)**

CERTIFICATIONS

- › Facades of MesseCity, Cologne, Germany
DGNB Gold
- › Pressehaus am Alexanderplatz, Berlin, Germany
LEED Gold
- › ECMWF Data Center, Bologna, Italy
DGNB Platinum

WINNING COMPETITION ENTRIES

- › Grenzwaldbücke (Talbrücke) BAB, A7, Fulda-Wurzburg, Germany
- › Viettel Group Headquarters, Hanoi, Vietnam
- › Lingang Avenue Station City, Shanghai, China
- › New Vocational School B13, Nuremberg, Germany
- › Shanghai Business School, China
- › Yasheng Group HQ, Fuzhou, China
- › Xiangyang Binjiang Science and Technology Financial City Project, China
- › Pazhou Qi-Anxin Headquarters, Guangzhou, China
- › Pujiang Plot C, Shanghai, China
- › Shanghai Academy of Fine Arts, China
- › Port Building, Shanghai, China
- › New Jeddah Downtown Stadium, Saudi Arabia
- › Jinqiao T30-02 Nuoxi, Shanghai, China
- › Yuhang Dingding, Hangzhou, China
- › Chengdu Jiaozi Park Financial and Business Zone, China
- › Meituan Shanghai Science and Technology Center, China
- › Nanjing Pukou South City Cultural Center, China
- › Angel Guangming Project, Shenzhen, China
- › East City Ring Urban Design, Guangzhou, China
- › Xiaomi Corporation Headquarters, Wuhan, China
- › Ortenau Hospital, Achern, Germany
- › Xiamen International Bank Headquarters, China
- › Renmin University of China Tongzhou New Campus Library Project, Beijing, China
- › Chengdu Future City, China



Green Dialogue

We lay our cards on the table

As architects at gmp, we consider it our responsibility to carefully advise our clients on the potential of their projects and on their goals. Sustainability is an integral aspect of this.

To integrate sustainability principles into our planning processes as a matter of course, a systematic examination is carried out independently of conventional certification systems. For this purpose, the gmp Sustainability Team has filtered out five content-related categories and 23 core topics for sustainable plans that provide a basic structure for a thorough examination and elaboration in all work phases (LPs) – known as the “Green Dialogue.”

The first step is to integrate these 23 topics into gmp designs in an accessible way with the aid of a set of cards. In the set of cards, each individual topic is defined on a separate card and provided with an eye-catching symbol. On the back of the cards are explanations of the positive effect for the

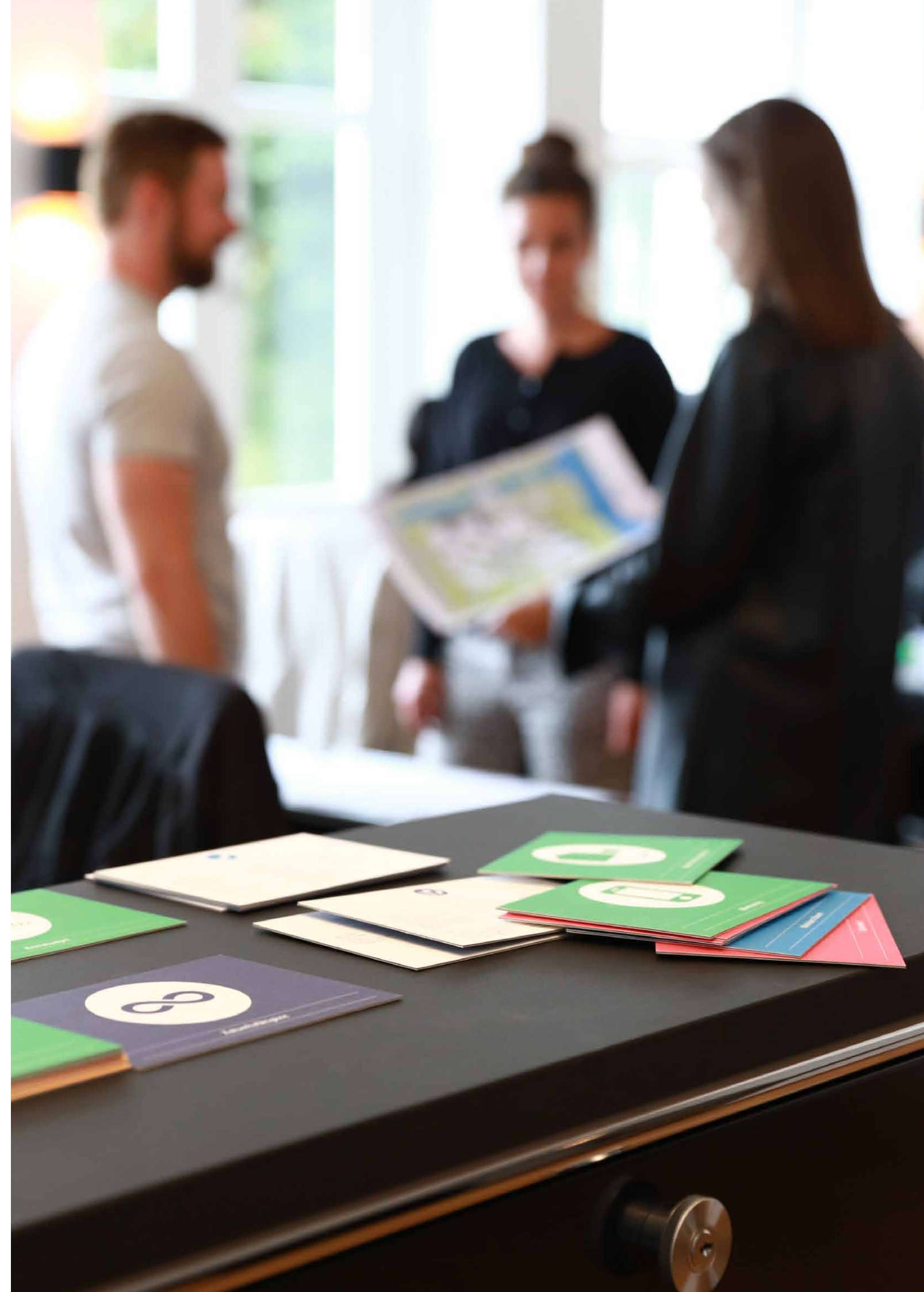
project and examples of implementations of the particular topic.







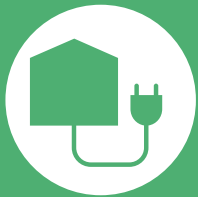

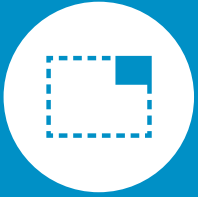




The cards are available in German, English, and Chinese-English and provide a framework for initiating the “Green Dialogue” in team meetings and in conversations with clients. Some topics, such as building culture, appropriateness, low-tech, and choice of materials are already traditionally rooted in gmp’s value system. Other topics require additional technical understanding and thus a closer collaboration with specialist consultants.

In the fall of 2021, the approach developed by gmp was once again discussed by employees from all our offices as part of a workshop at the Hamburg office. This led to the initiation of further measures for optimizing our workflows, especially in the later work phases of the planning process. Cross-location working groups made up of in-house experts and interested employees focus on the subject areas of design, plan-

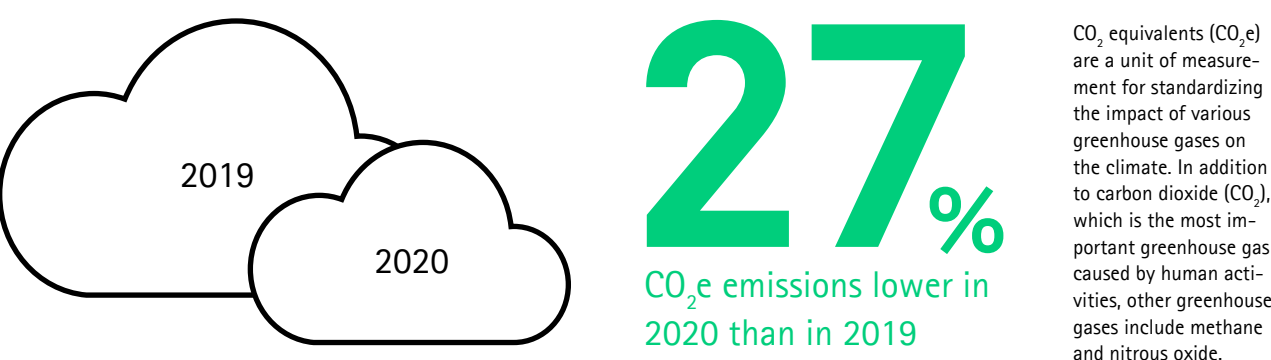
ning, BIM tools, and the Chinese market. These groups meet regularly and are charged with developing tools for better integrating sustainable building methods in their discipline.

Our goal is to analyze the 23 “Green Dialogue” topics for all new gmp projects at the start of processing and, in this way, work with our clients to define goals for the optimal integration of these sustainability principles.

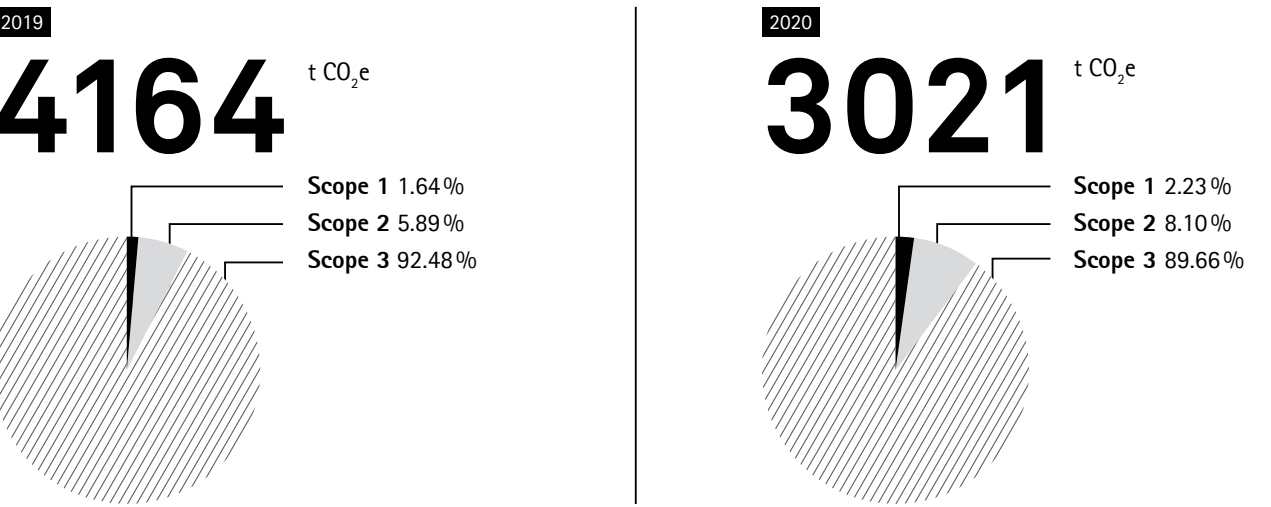


Context						Genius Loci	⋮
						Cultural Context	⋮
						Future Viability	⋮
						Appropriateness	⋮
Wellbeing						Mobility	⋮
						Health Promotion	⋮
						Inspiration and Identity	⋮
						Accessibility	⋮
Environment						Resilience	⋮
						Life-Cycle Budget	⋮
						Energy Concept	⋮
						Biodiversity	⋮
						Microclimate	⋮
Resources						Land Use	⋮
						Water	⋮
						Multi-Use	⋮
						Low-Tech	⋮
						Monitoring	⋮
Building Method						Construction	⋮
						Prefabrication	⋮
						Circular Economy	⋮
						Material	⋮
						Certification	⋮

CO₂ Footprint



Since 2020, .planetly by OneTrust has supported gmp in the analysis of our CO₂ footprint. The analysis for 2019 and 2020* is in keeping with the GHG Protocol Corporate Standard. The results of this analysis render emissions transparent, which in turn makes it possible to develop and implement specific measures to reduce carbon emissions. These results also serve as a basis for examining our progress in reducing carbon emissions and for evaluating the effectiveness of the measures. Based on these results, a reduction strategy will be developed for the purpose of reducing all avoidable emissions and implementing a reduction roadmap.



Distribution of the CO₂ footprint from 2019 and 2020 based on the "GHG Scopes"

Scope 1	1.01 Stationary Combustion	2019	34.22 t CO ₂ e
		2020	16.70 t CO ₂ e
	1.02 Mobile Combustion	2019	33.89 t CO ₂ e
		2020	50.72 t CO ₂ e
Scope 2	2.02 Electricity (Market Approach)	2019	156.46 t CO ₂ e
		2020	190.16 t CO ₂ e
	2.03 Heating	2019	88.74 t CO ₂ e
		2020	54.63 t CO ₂ e
Scope 3	3.01 Purchased Goods and Services	2019	934.92 t CO ₂ e
		2020	901.65 t CO ₂ e
	3.02 Capital Goods	2019	11.49 t CO ₂ e
		2020	117.98 t CO ₂ e
	3.03 Fuel and Energy-Related Activities	2019	46.37 t CO ₂ e
		2020	41.27 t CO ₂ e
	3.05 Waste Generated	2019	29.21 t CO ₂ e
		2020	29.79 t CO ₂ e
	3.06 Business Travel	2019	2092.92 t CO ₂ e
		2020	763.74 t CO ₂ e
	3.07 Employee Commuting	2019	376.59 t CO ₂ e
		2020	325.21 t CO ₂ e
	3.08 Leased Assets	2019	359.17 t CO ₂ e
		2020	528.36 t CO ₂ e
	3.11 Use of Purchased Goods	2019	0.35 t CO ₂ e
		2020	0.49 t CO ₂ e

GHG Category / GHG Scopes (Greenhouse Gas Protocol Scopes)

The GHG Protocol provides a comprehensive framework of globally recognized standards for measuring and managing greenhouse gas emissions from the private and public sectors, from value chains, and from emission reduction measures.

Scope 1

This scope visualizes the greenhouse gas emissions that a company can directly influence and therefore regulate. It measures all on-site combustion of fuels by company-owned production plants and vehicles, e.g. heating, machinery, air conditioning.

Scope 2

This scope applies standardized aspects to show how indirect greenhouse gas emissions that a company generates through "external" resource consumption are measured. It measures the fuel emissions of off-site power plants that supply the company with purchased electricity and energy (steam, cooling, heat).

Scope 3

Indirect greenhouse gas emissions that aren't covered by Scope 2 are recorded and measured here. These emissions occur in the company's value chain and include supplier services, the use of company products, purchased goods (upstream emissions), and investments (downstream emissions). The Scope 3 standard is the only globally recognized method for companies to identify this type of emissions from the value chain.

The 10 Principles of the United Nations Global Compact

Source of text: UN Global Compact



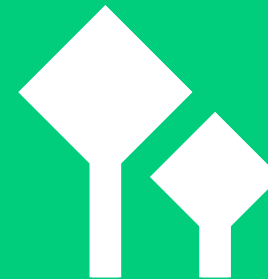
HUMAN RIGHTS

1. Businesses should support and respect the protection of internationally proclaimed human rights; and
2. make sure that they are not complicit in human rights abuses.



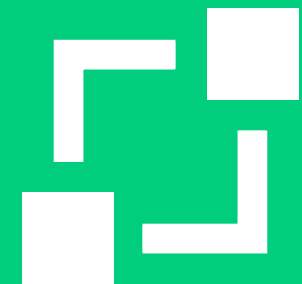
LABOR STANDARDS

3. Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining;
4. the elimination of all forms of forced and compulsory labor;
5. the effective abolition of child labor; and
6. the elimination of discrimination in respect of employment and occupation.



ENVIRONMENT & CLIMATE

7. Businesses should support a precautionary approach to environmental challenges;
8. undertake initiatives to promote greater environmental responsibility; and



ANTI-CORRUPTION

9. encourage the development and diffusion of environmentally friendly technologies.
10. Businesses should work against corruption in all its forms, including extortion and bribery.



Compliance: Our goal for the future is to make gmp's Code of Conduct the mandatory basis for our cooperation with contractual partners on both the national and international level.

- ✓ Establish a compliance working group
- + Update our Code of Conduct to reflect the UN Global Compact values
- Continuously update the Code of Conduct and publish it on the gmp website and on the Intranet
- New contracts will reference the Code of Conduct
- Achieve transparency over the number and type of contracts into which the Code of Conduct is embedded
- Achieve transparency over mechanisms for dealing with violations of the Code of Conduct
- Achieve transparency over fines and audits



Diversity: Our goal is to guarantee equal opportunity regardless of gender or identity.

- ✓ Annual report on diversity throughout the entire company and in management ■■■ (p. 6)
- ✓ Annual report on the countries of origin/nationalities of employees ■■■ (p. 6)
- + Equal opportunity must be reflected in a balanced ratio between male and female employees at the managerial level. With this in mind, our goal is to define target values for the percentage of women on specific management levels by 2030
- We also want to define target values for the inclusion of more persons with disabilities by 2030
- We will be offering a mentoring program to improve the framework conditions for promotion within the company
- ✓ Annual employee performance reviews for evaluating the performance of all members of the company will be used to support our employees in establishing goals for personal training and development
- + Each year, employees will respond to surveys on the issues of equality, work, environment, development opportunities, leadership, and corporate culture and the results will be integrated into the UN Global Compact Annual Report
- + Events that deal with "unconscious bias" are also planned
- ✓ The holidays of different cultures and nationalities are being celebrated throughout the company



High-quality consulting: Our goal is to optimize our consulting performance as architects. Sustainability is an integral aspect of the quality of our planning.

- ✓ Development of "Green Dialogue" as a system-independent quality management system for sustainable planning ■■■ (p. 36)
- ✓ A sustainable planning working group develops resources and workflows on an ongoing basis in order to further improve "Green Dialogue"
- + Integration of "Green Dialogue" in the planning of new projects
- ✓ Since 2020, gmp has offered monthly, cross-location training sessions on sustainable planning – Green Table
- + Systematic professional qualification of employees in the area of sustainable planning
- ✓ Annual report on building culture (project awards, company awards), certified projects (LEED, DGNB, WELL, etc.), and projects processed using the gmp QM system ("Green Dialogue") ■■■ (p. 34)



Carbon emissions: Our goal is to steadily reduce climate-related emissions so as to become a climate-neutral company. The careful handling of resources will become standard practice in our company.

- ✓ Annual calculation of carbon footprint ■■■ (p. 40)
- Development of a climate protection roadmap that defines emission reduction targets for 2025 and 2030
- Remaining emissions will be offset through donations and investment in climate protection projects
- MOBILITY
- ✓ Each year, we carefully review our mobility behavior and plan an ongoing reduction in carbon emissions associated with business trips and work commutes ■■■ (p. 24)
- Development of a Mobility Code of Conduct with rules and responsibilities for climate-friendly business travel that is binding for all employees
- + Recording of domestic business travel via road and rail as of 2025 so that we will be able to calculate carbon emissions more transparently and objectively
- ✓ Support for our employees' mobility through subsidized public transportation passes
- Expansion of mobility subsidy to include the purchase or leasing of a new bicycle
- + Changing rooms with shower rooms will be installed at all offices, making longer commutes by bicycle more appealing
- RESOURCES
- ✓ Regular performance of energy audits at the German offices
- Regular performance of energy audits at the gmp offices outside Germany
- ✓ Reduce purchase of mineral water in returnable bottles at the German offices by 60 percent
- + Light fixtures in all our offices are gradually being converted to LED lighting
- + Introduce waste sorting and recycling at all our offices

COMMUNICATION ON PROGRESS



This is our **Communication on Progress** in implementing the Ten Principles of the **United Nations Global Compact** and supporting broader UN goals.

We welcome feedback on its contents.

17 SUSTAINABLE DEVELOPMENT GOALS OF THE UNITED NATIONS (UN)



gmp ANNUAL REPORT 2021

This annual report covers the fiscal year from January 1 to December 31, 2021, of the planning office of gmp Architects, which comprises gmp International GmbH, gmp General-planungsgesellschaft mbH, and their subsidiaries. Whenever indicators, figures, or processes do not fall within this period, this is duly noted. The report is based on the criteria of the United Nations Global Compact and contains information on responsible leadership in the areas of human rights, labor, environment & climate, and anti-corruption. The annual report both represents our commitment to the Global Compact and its 10 principles and serves as our annual progress report – "Communication on Progress." It will be published on the UN Global Compact website (www.unglobalcompact.org) and the gmp website (www.gmp.de).

IMPRINT

gmp · von Gerkan, Marg and Partners Architects

Business Development

Kristina Looock
Nadja Stachowski
business.development@gmp.de
Editors: Kristina Looock,
Nadja Stachowski, Ileana Soana,
Marc Ziemons, Marie Bouquet,
Josepha Schacht
Layout: Ileana Soana
Proofreading: Heike Werner
Translation: Christie Tam

We would like to thank all our colleagues who contributed to the implementation of gmp's Sustainability Report 2021.

PICTURE CREDITS

Cover "Pressehaus am Alexanderplatz, Berlin, Germany," p. 11, 12 bottom, 16–19, 26, 34 (1, 2, 6, 10) Marcus Bredt, p. 4, 12 top, 34 (5) Christian Gahl, p. 5 René Mueller Photographie, p. 8, 34 (4) Hans-Georg Esch, p. 10 Meinhard von Gerkan, p. 12 M. Schran Images, p. 14 top ATCHAIN, p. 14 M. WillMore Architectural illustration & CG, p. 14 bottom gmp, p. 21, 22, 25 gmp private, p. 23 top Heinrich Holtgreve, p. 23 bottom Eddie Goh, p. 28 Katja Strempel, p. 29, 30 bottom right Academy for Architectural Culture, p. 31 bottom An Thi Thanh Nhan, p. 30 top/bottom left, p. 31 top, center Jochen Stüber, p. 32, 34 (3,8) CreatAR Images, p. 34 (7) Heiner Leiska, p. 34 (9) Schran Images / Su, Shengliang, p. 34 (11) Julia Ackermann, p. 37 Inga Sommer, Sustainable Development Goals of the United Nations (UN)

© gmp December 2022

www.gmp.de