

The background of the entire page is a light blue gradient. Overlaid on this are numerous blue circles of varying sizes and thin, light blue lines that intersect to form a network-like pattern, suggesting connectivity and digital infrastructure.

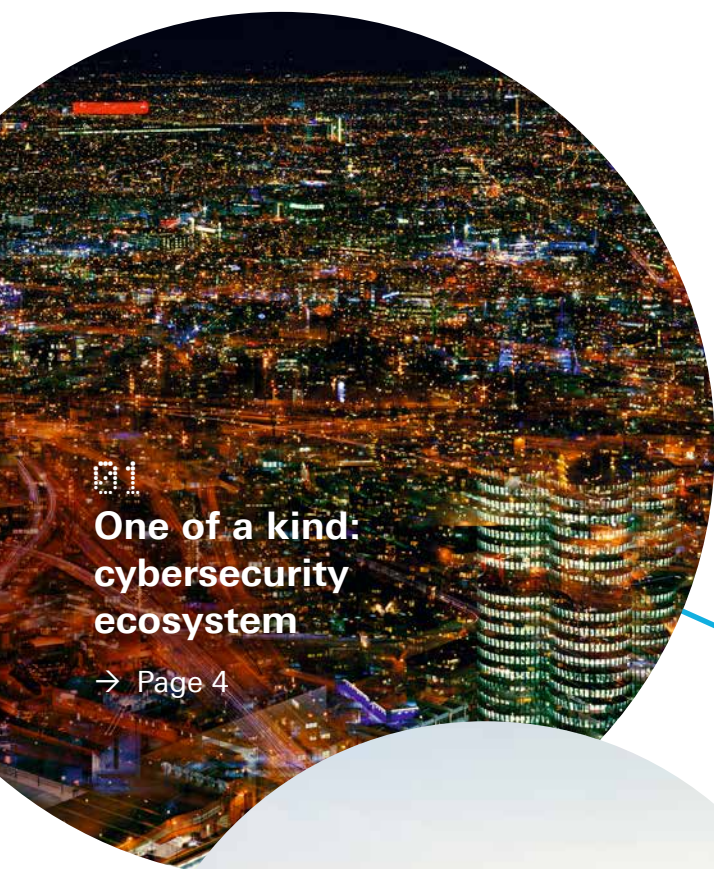
The Centre of Cybersecurity in the Heart of Europe

Munich as the ideal location for the
European Cybersecurity Competence Centre



Cybersecurity “made in Europe” means we can fully exploit the enormous opportunities and potential of digitisation by managing the associated risks. The COVID-19 pandemic has clearly shown how important trust, security and resilience are in an increasingly digital society, economy and scientific community. Establishing a European Cybersecurity Industrial, Technology and Research Competence Centre and the Network of National Coordination Centres is therefore an important step towards ensuring the future **security** and **digital sovereignty of the European Union and its Member States**.

As a **renowned key European cybersecurity hub**, Munich is therefore delighted to apply to become the home of the European Cybersecurity Competence Centre. Situated in the heart of Europe, Munich combines an outstanding cybersecurity ecosystem, a highly innovative technological environment and an unsurpassed standard of living.



01
**One of a kind:
cybersecurity
ecosystem**

→ Page 4



02
**Unique in Europe:
high-tech
innovation centre**

→ Page 14



03
**High-quality:
real estate**

→ Page 20



04
**Outstanding:
infrastructure**

→ Page 24



09
**Excellent:
quality of life**

→ Page 36



08
Perfect: location

→ Page 34



**9 good
reasons for
Munich**



05
**Highly skilled:
labour force**

→ Page 28



07
**Open-minded:
international outlook**

→ Page 32



06
**First-class:
education and
training**

→ Page 30

Perfect ecosystem: Munich has established itself as the most important site for corporations and research institutions focused on cybersecurity technologies.



One of a kind: cybersecurity ecosystem

Munich provides a cybersecurity ecosystem which is unique in Europe, one in which science and research, global players and hidden champions, start-ups and government authorities are already successfully working together on innovations and cutting-edge technologies for digital security.

As the digital links between society and the economy continue to grow, cybersecurity is becoming ever more important to the progress of the digital transformation. **Innovative solutions** for digital technologies and the security of online data and information provide the basis for a stable and resilient society, help to safeguard Europe's democracies and are the key to a prosperous and strong economy and cutting-edge research.

Cybersecurity is a task for society as a whole, requiring close ties and in-depth, trust-based cooperation among all parties. For decades, the Bavarian state capital Munich has been home to the most important companies and research institutions in the area of security technology. Munich provides a **cybersecurity ecosystem which is unique in Europe**, one in which **science and research, global players and hidden champions, start-ups and government authorities** are already successfully working together on innovations and cutting-edge technologies for digital security. Munich is thus the ideal location for the European Cybersecurity Industrial, Technology and Research Competence Centre.

Many of the **IT security companies** based in Munich are global leaders in their field. Security solutions "made in Germany" have earned professional recognition and esteem throughout the world and are well-positioned to strengthen "Security made in Europe" serving the ideals of the European Union. At the same time, Munich attracts important international companies and experts from all over the world. Organisations from countries including Israel, the USA, Canada, Russia, France, the United Kingdom, Japan, China and Korea enrich the IT security and cybersecurity ecosystem.

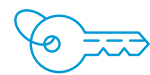
Two effects lead to direct added value in Munich as a centre for innovation: First, geographical proximity to suppliers and research partners and second, access to effective security services from other sectors. IT security as a cross-sector industry is an everyday reality in Munich.

Skills and knowledge transfer, cooperation and networking are the defining characteristics of the **Security Network Munich**, in which over 100 companies, research institutions and users from the IT and cybersecurity sector are active. The aim is to make a decisive contribution to promoting innovation and excellence in the field. From innovative solutions and the testing of prototypes to industrial product development and integration in user domains, the entire value chain is covered by the partners. Major international enterprises as well as highly specialised, medium-sized companies with excellent reputations have become involved in the initiative. Munich's universities and research institutions form the Network's central pillars. The reputations of the Technical University of Munich (TUM), the Ludwig-Maximilians-University (LMU) Munich, several Fraunhofer Institutes and the Bundeswehr University Munich (University of the German Armed Forces) speak for themselves. The Security Network Munich's international partner is the London-based Information Security Forum (ISF), which is a global leader in best practice and risk management.

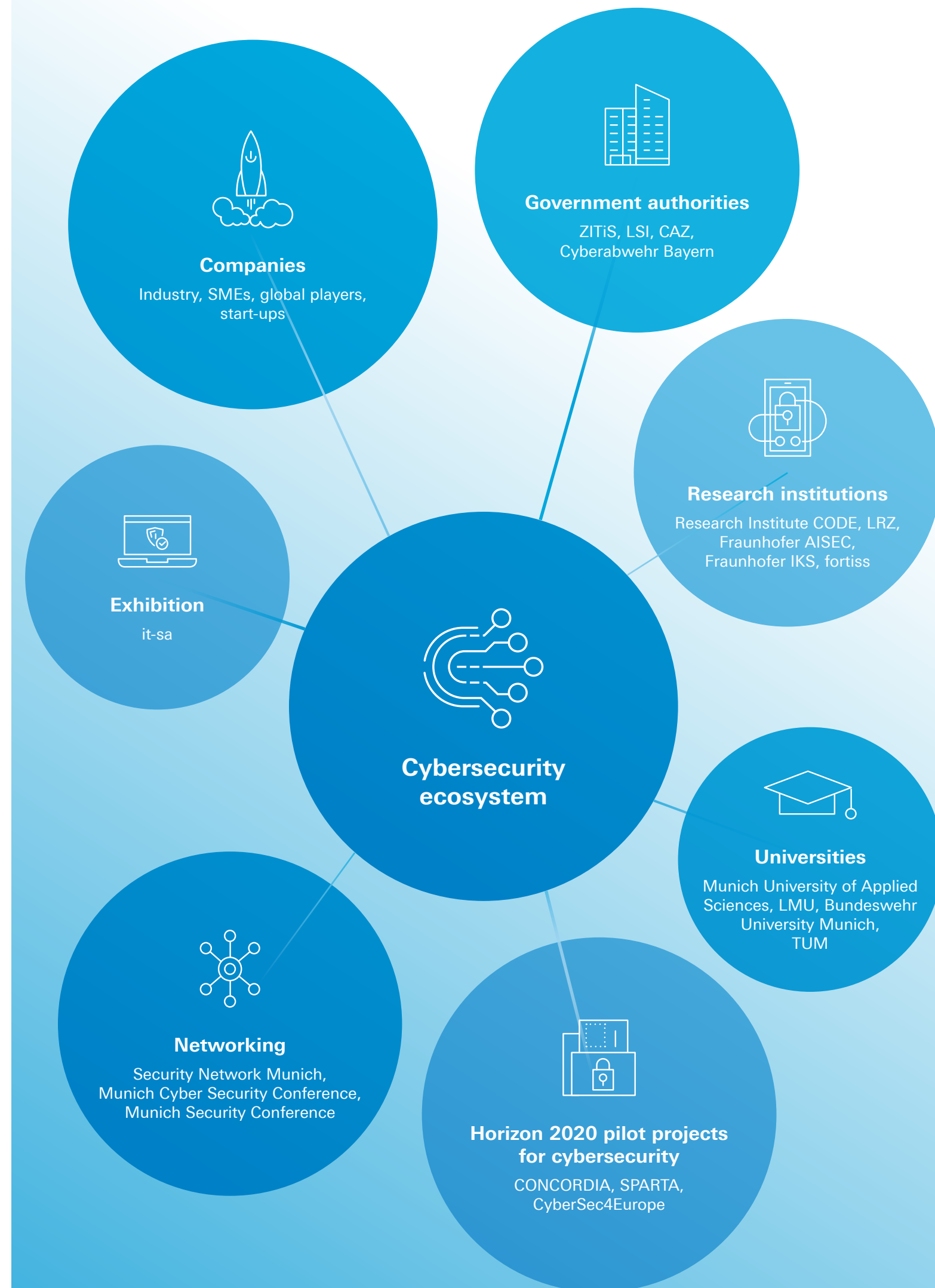
As the location for renowned, internationally successful major events such as the annual **Munich Security Conference**, Munich has established itself as a key expert hub for security-related issues in Germany and Europe. Each year, on the eve of the conference, the **Munich Cyber Security Conference MCSC** gathers decision-makers and experts from all over the world to discuss current cybersecurity risks and practical security strategies for companies and organisations against a backdrop of constantly evolving threats.

> 100

Over 100 companies, research institutions and users from the IT and cybersecurity sector are active in the Security Network Munich.



Cybersecurity is the key to a prosperous and strong economy and cutting-edge research.





Excellent research: In the Times Higher Education World University Ranking 2021, the Ludwig-Maximilians-University Munich shines at the first place among the EU-27 universities, the Technical University of Munich is ranked third.

01 One of a kind: cybersecurity ecosystem

The **Research Institute CODE** at Bundeswehr University Munich under the direction of Prof. Dr. Gabi Dreo Rodosek forms the nucleus of the community of experts who deal with the sensitive topic of cybersecurity in research, the military, business, industry, government authorities and associations. The Bundeswehr University Munich is, of course, closely linked – across various departments – to both military and civilian authorities which provide protection on international, national and regional levels. The aim of CODE is thus to further strengthen interaction between industry, research and the authorities and to create an ecosystem for innovation. Innovation skills from the field of research and industrial partners lay the foundation for further excellent research.

Munich is playing a **decisive role in establishing the European Network of Cybersecurity Competence Centres**: Partners from the area are involved in three out of four Horizon 2020 pilot projects (CONCORDIA, SPARTA and CyberSec4Europe). **CONCORDIA** is also in charge of coordinating the four pilot projects. The World Economic Forum emphasised CONCORDIA's importance in establishing successful ties and cooperation among highly diverse stakeholders in its latest "Cyber Information Sharing" report from October 2020. The research institute CODE has taken over the leadership role on behalf of CONCORDIA.

The **IBM Q Hub** is also based at the Bundeswehr University Munich. The Hub is part of a global network of research centres, universities and companies which research quantum computing technology and help to develop the first practical applications for business and science.

The new **Centre for Digitalisation and Technology Research of the German Armed Forces (DTEC.Bw)** is based at the Bundeswehr University Munich, too. The aim is to strategically pool and strengthen the Bundeswehr University's research in the fields of digitalisation and the associated key and future technologies while enabling new research-based cooperation with stakeholders from science, economy, administrative bodies and society.

The **Technical University of Munich (TUM)** is one of Germany's first top three Universities of Excellence. It is characterised by first-class research and teaching, an interdisciplinary approach and the promotion of talent. The topic of IT security and cybersecurity is currently covered by eight professorial chairs in computer science, electronic engineering and information technology and is complemented by chairs in mathematics and economics, which examine questions such as risk modelling. The TUM's Computer Science Faculty is brimming with talent, attracting over 2,300 first semester students.

The **Ludwig-Maximilians-University Munich** is one of Europe's leading research universities, with a tradition stretching back over 500 years. Its status as a University of Excellence boosts its strength in the area of research and further cements its international status. Against this backdrop, the research group led by Prof. Dr. Dieter Kranzlmüller at the LMU's Institute of Computer Science plays a key role in areas such as IT security – with respect to both training and research. The group's main research interests are in the management of networked and distributed systems, with a focus on grid and cloud computing, high-performance and distributed computing, as well as virtualisation concepts and their implementation. All these research areas also involve security aspects and provide excellent practical applications as well as insight into interdependencies between security systems.



Partners from Munich are involved in three out of four Horizon 2020 pilot projects (CONCORDIA, SPARTA and CyberSec4Europe).



The TUM's Computer Science Faculty is brimming with talent, attracting over 2,300 first semester students.

This rich landscape is completed by the master's degree programme in IT security at the **Munich University of Applied Sciences**.

The **Leibniz Supercomputing Centre (LRZ)**, with its SuperMUC-NG, is a national and European supercomputing centre and IT service provider for Munich's universities as well as for a growing number of scientific institutions in the Munich Metropolitan Area. The Centre looks at all aspects of cybersecurity, from technical and organisational measures to procedures for preventing, detecting and reacting to security issues.

The **Fraunhofer Institute for Applied and Integrated Security (AISEC)** under the direction of Prof. Dr. Claudia Eckert is a beacon of national and European significance. The Institute is home to security and application laboratories at the absolute cutting-edge of technology. The focus is on technology transfer for SMEs. AISEC helps companies in all industries and service sectors to secure their systems, infrastructure, products and services. Over 130 IT-security experts at AISEC research and develop high-quality security solutions to boost reliability, confidentiality and protection against manipulation for IT-based systems and services.

The **Fraunhofer Institute for Cognitive Systems (IKS)** focuses on applied research concerning dependable software technologies for safety-critical applications in the areas of Industry 4.0 and automotive, as well as mobile machines and commercial vehicles.

Fortiss, the research institute of the Free State of Bavaria for software-intensive systems and services, is a recognised and important research partner for the Bavarian economy and public administration when it comes to pioneering technologies of software and systems engineering.

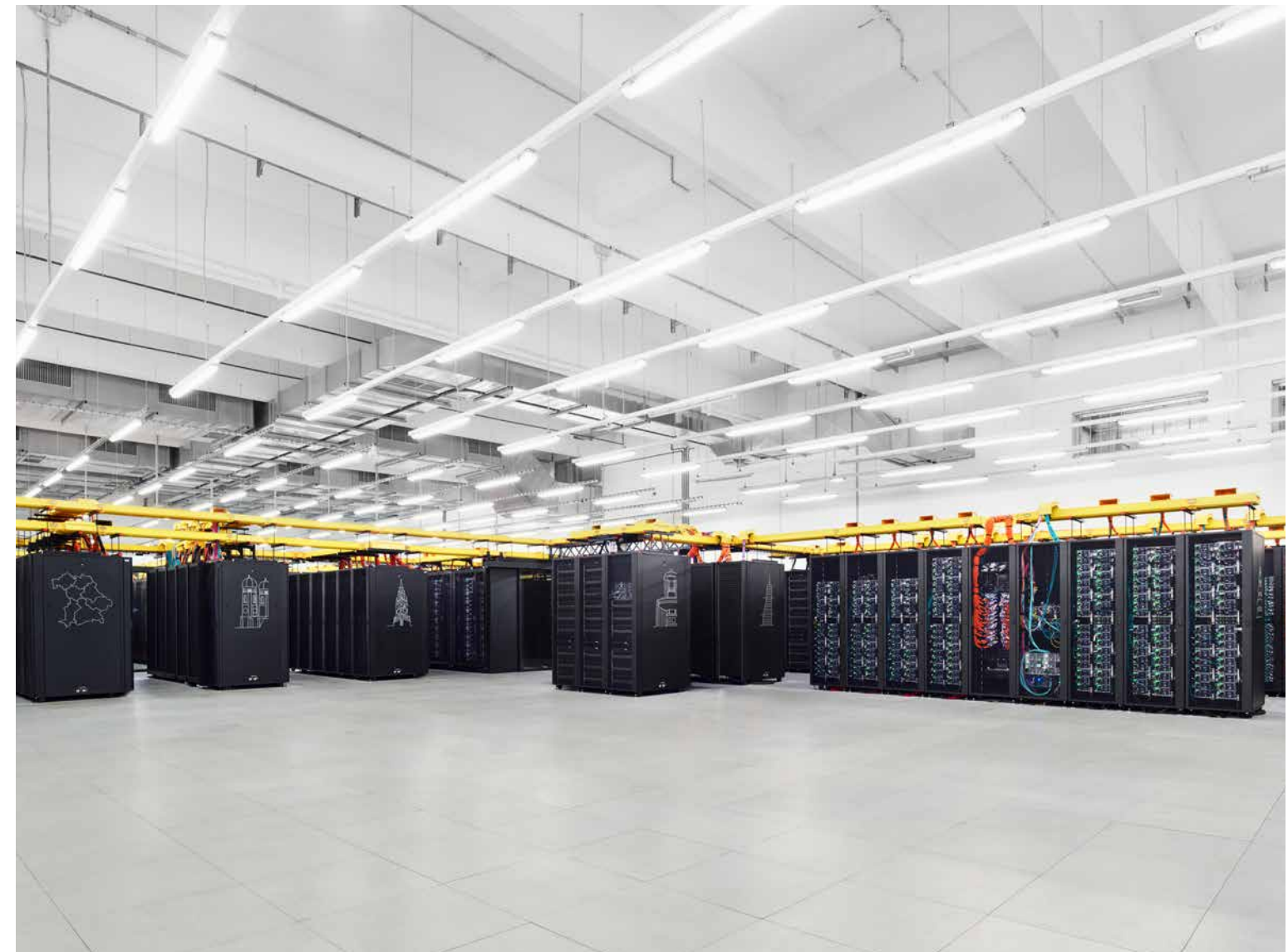
Many high-tech companies in Munich operate their own **research and development centres** relevant to their respective disciplines. Examples include cyber and high-security laboratories at Giesecke & Devrient, Infineon and Siemens, where, among other things, the robustness of security components are tested, as well as Nokia's 5G test site and the Cyberintelligence Laboratory run by Airbus Defence and Space. Focal points include post-quantum cryptography, hardware and software security (e.g. hardware security anchors), new security architecture and Big Data (data analytics). Major attention is given to the long-term robustness and resistance of hardware components to both invasive and non-invasive attacks. When it comes to software security, priorities include virtualisation, white box cryptography and formal methods. Other important issues include advanced authentication procedures, biometrics and secure operating systems.

Munich provides its vibrant **start-up scene** with the ideal conditions for developing new ideas and putting them into practice. Not only due to geographical proximity the collaboration between start-ups and business is excellent and facilitates the possibility to test new products both technologically and commercially. This way, young companies can evolve from original ideas to the start-up phase and beyond while established companies benefit from the innovative spirit, creativity and dynamism of young entrepreneurs. Eight incubators, numerous company-run accelerator programmes, as well as 500 investment and venture capital companies complement the many options available to assist entrepreneurs. In recent years, nine "unicorns" (start-ups valued at over one billion euros) have emerged in Munich.

Autonomous driving:
The mobility of the future is put to test on the highway A9 between Munich and Nuremberg.



High-performance computing: Munich hosts the 'SuperMUC-NG', Europe's third fastest computer based at the Leibniz Supercomputing Centre.



The Leibniz Supercomputing Centre is a national and European supercomputing centre.



Under the direction of Prof. Dr. Claudia Eckert over 130 IT-security experts at AISEC research and develop high-quality security solutions.



Nine "unicorns" (start-ups valued at over one billion euros) have emerged in Munich.



Innovative research: The Highlight Towers are home to the IBM Watson Center which focusses on AI and IoT; its neighbour is fortiss, Bavaria's own research institute for software-intensive systems.

01 One of a kind: cybersecurity ecosystem

Each year, the Messe Nuremberg (the trade fair site just one hour from Munich by ICE train) hosts the **it-sa**, Europe's largest expo for IT security and one of the most significant global platforms for solutions relating to cloud management, mobile and cybersecurity, as well as data and network security. With some 750 exhibitors from 19 countries and over 15,000 professional visitors from both Germany and abroad, the expo provides the perfect framework for dialogue, knowledge transfer and networking with leading players in the sector.

The **Information Security Hub (ISH)** at Munich Airport is the competence centre for IT and aviation information security at European airports. Its expertise in the areas of awareness, teaching and training is also offered to government authorities and other institutions.

For years, the Bavarian State Government has placed emphasis on creating a **powerful cybersecurity alliance** by establishing and expanding a strong network of stakeholders from business, research, science and politics. To this end, the close, trust-based cooperation of all parties important for cybersecurity in Bavaria, Germany and Europe, has continued to develop and consolidate. Bavaria has responded to the increasing cyber security threats by adopting a consistent and successful security policy, as well as an effective cybersecurity architecture. In this way, it protects its citizens and companies and safeguards the state's ability to act.

With its **State Office for Security in Information Technology (LSI)**, Bavaria became the first German federal state to set up its own authority for IT security. In addition to actively protecting Bavaria's IT systems, its role is to advise the state's local authorities, public companies as operators of critical infrastructure and the state administration itself.

The Bavarian **Cyber Alliance Centre (CAZ)** in the Bayerisches Landesamt für Verfassungsschutz, the intelligence agency of the Free State of Bavaria, advises companies, universities and the operators of critical infrastructure on preventing and responding to cyber attacks. The CAZ is the state's central control and coordination office for IT and cybersecurity.

Cyberabwehr Bayern (Cyberdefence Bayern) was set up in 2020 as the central information and coordination platform for Bavaria's government authorities for cybersecurity. It is embedded in Germany's cybersecurity architecture as the main contact partner for the National Cyberdefence Centre (Nationales Cyberabwehrzentrum NCAZ).

The **Central Office for Information Technology in the Security Sector (ZITiS)** is another Munich-based core component of Germany's cybersecurity architecture. Subordinate to the Federal Ministry of the Interior, it is dedicated to research and development and assists other government authorities responsible for security with cyber-related issues.

ZITiS will collaborate with the Bundeswehr University Munich on its university-based research and the development of new security technologies and applications.

❖ The European Cybersecurity Competence Centre fits perfectly in Munich's IT and cybersecurity landscape and stands to benefit from the city's unique cybersecurity ecosystem.

~750

With some 750 exhibitors from 19 countries it-sa is Europe's largest expo for IT security.



Germany and Bavaria have responded to the increasing cyber threats by adopting an effective cybersecurity architecture.



Unique in Europe: high-tech innovation centre

Bavaria and its state capital Munich occupy a leading European or even global position in numerous areas of cutting-edge technology.

Smart assistance: The care robot GARMi was developed as a tool for telemedicine by the Munich School of Robotics and Machine Intelligence at the Technical University of Munich.



Bavaria has a tradition of new ideas and ongoing innovation.

A unique combination of high-tech companies and research institutions is one of the region's defining characteristics, giving it major global appeal. Bavaria's universities, research institutions, companies and associations work in coordinated networks which ensure optimum technology transfer from basic research to practical application.

Bavaria has a tradition of new ideas and ongoing innovation.

As part of its **High-tech Agenda**, Bavaria's State Government has made some **3.5 billion euros** available to expand the research landscape throughout the state. Thanks to this strong investment in research, areas like artificial intelligence, quantum technologies and aerospace engineering get a boost for the forthcoming years.

The High-tech Agenda saw the launch of the **AI District Bavaria**, with Munich at its heart. The Mission Institute for Artificial Intelligence will pool and link fundamental science and applied research in this field. The Munich Center for Machine Learning, an initiative of the two Universities of Excellence LMU and TUM, as well as the Munich School of Robotics and Machine Intelligence, form the pillars of the AI Mission Institute. 22 new AI professorships are being set up for this purpose at Munich's universities. In Bavaria as a whole, a total of 100 new AI chairs are created and linked to the AI District Munich.

The **Fraunhofer Institute for Cognitive Systems (IKS)** is working on **security solutions for autonomous driving and flying**. The **Fraunhofer Institute for Applied and Integrated Security (AISEC)** will also be further strengthened. Its work ranges from the integrated security of embedded systems and hardware components to operating systems, applications, cloud-based services – as well as solutions for secure software and system development – and the use of machine learning technologies for cybersecurity.



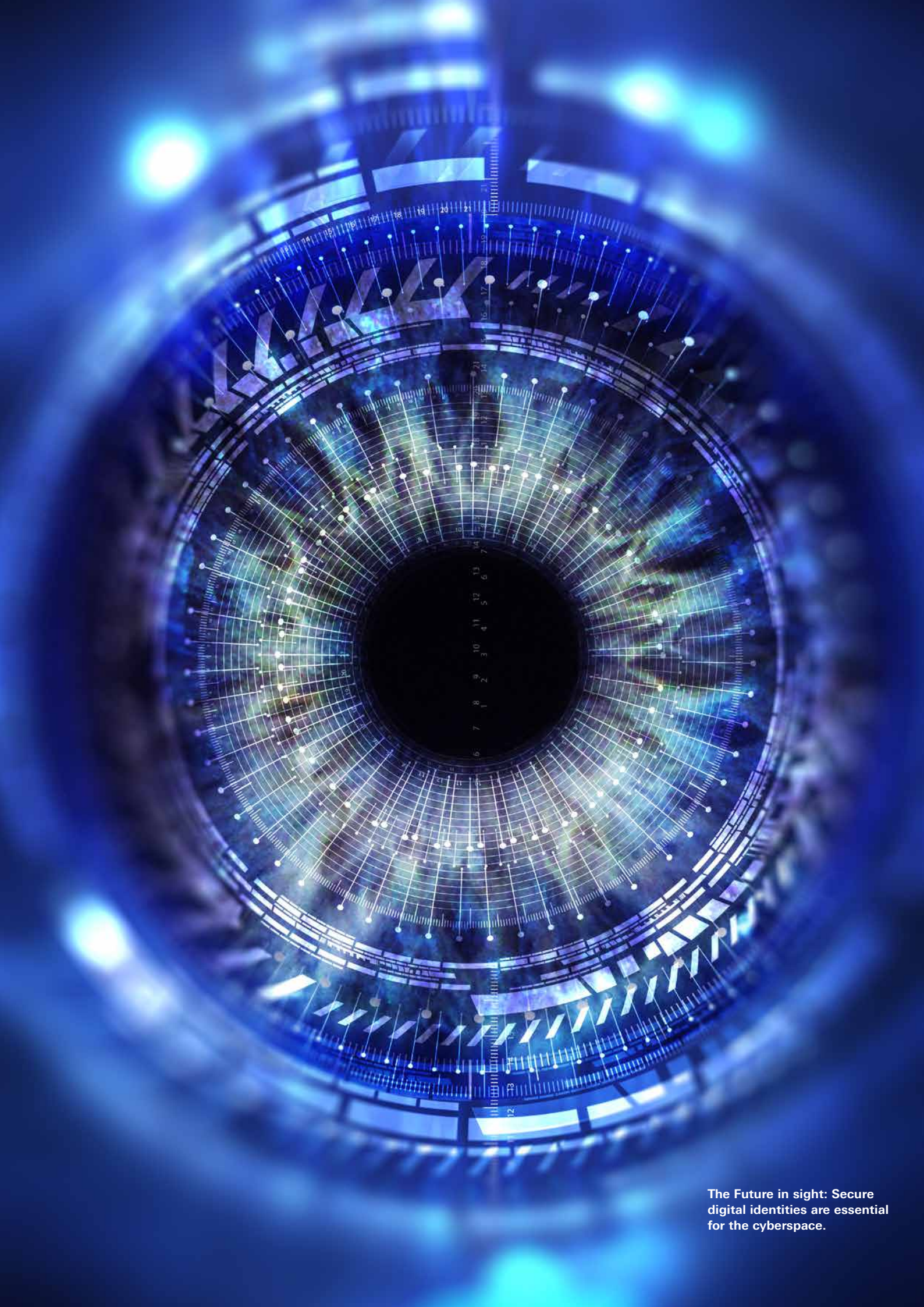
22 new AI professorships are being set up at Munich's universities.

Bavaria possesses an outstanding ecosystem for **quantum technologies**, which are directly relevant to cybersecurity technologies. The Munich Center for Quantum Science and Technology represents an excellent technology hub which, in the coming years, will expand and become central to Bavaria's quantum industry.

Bavaria is making an important contribution to the creation of the **highly-secure, tap-proof European quantum communication network** at both the national and EU level: The Bavarian Ministry of Economic Affairs, Regional Development and Energy is preparing the internal German connection from Bavaria to Saxony, including a testbed infrastructure, while the Bavarian Ministry for Digital Affairs is investigating the case for a transnational connection to Austria. Alongside illustrious university-based research institutions and the Max Planck Society, the Institute for Communication and Navigation at the German Aerospace Centre on Munich's doorstep is an excellent partner for satellite communication when it comes to tap-proof quantum communication.

The IBM Q Hub Munich has been working with the Bundeswehr University in the area of **quantum computing** since 2018. Together, they are facilitating application research relevant to security in a network of business partners and research institutes.

❖ **Bavaria possesses an outstanding ecosystem for quantum technologies, directly relevant to cybersecurity technologies.**



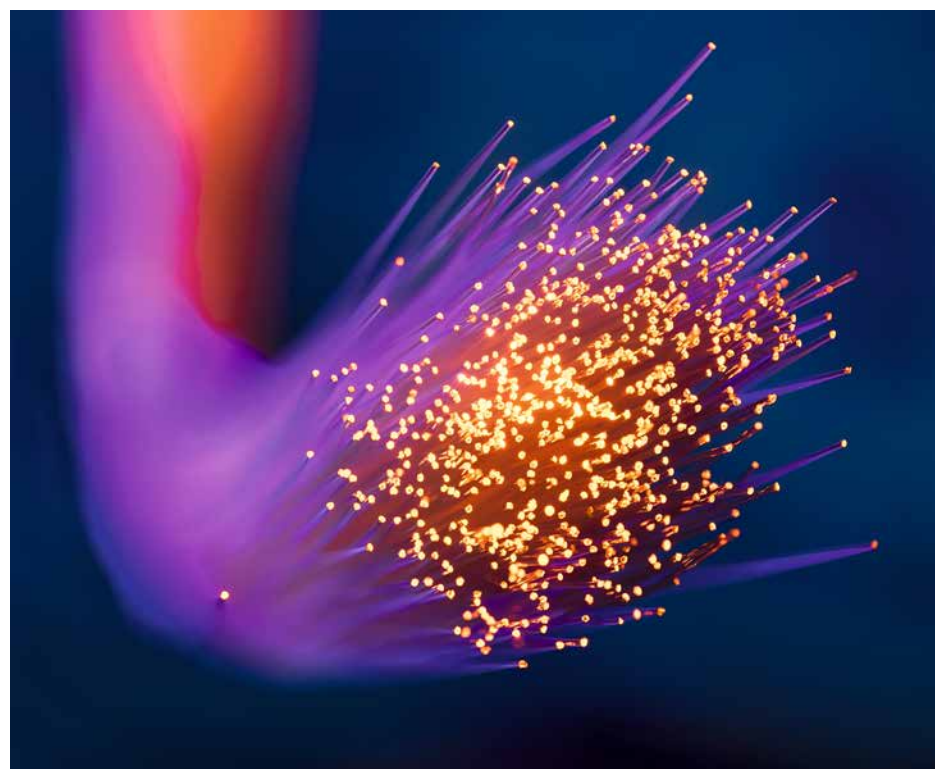
The Future in sight: Secure digital identities are essential for the cyberspace.



State-of-the-art medicine: Hybrid surgery rooms at the hospital of the Technical University of Munich provide physicians with three-dimensional images of the patient.

❖ The technology companies in Munich exhibit a high level of innovation and technological excellence.

Fast network connectivity: Bavaria makes high investments into its broadband infrastructure and IT security.



02 Unique in Europe: high-tech innovation centre

With its **6G Initiative**, Bavaria is already investing in the research and development of future mobile communication. The aim of three interlinked approaches is to conduct basic research, launch and support plans for innovative research and development cooperation as well as to link relevant players from the worlds of science and business.

With more than 11,000 companies and 118,000 employees in the IT and communications technology sector, the **Isar Valley** places Munich in a leading position in Europe. No renowned manufacturer of IT security products wants to be without a base in the Munich Metropolitan Area.

The **EU Atlas of ICT Hotspots** ranks Bavaria's Capital in **first place**, ahead even of London and Paris. It is no coincidence that the European Commission named Munich Europe's Top ICT Hub – companies, start-ups and the numerous research institutes in and around the city are all active in areas relevant to the digital transformation.

Bavaria as a high-tech state integrates the development labs of numerous companies, universities, technology clusters and scientific institutes, including those of the Fraunhofer and Max Planck Societies, the Leibniz Association and the Helmholtz Association. All these organisations create a climate in which research and development can grow. This means that bright minds are given the space and freedom they need to foster their ideas. In addition, cooperation with companies from all user industries expands the potential for cross-industry innovation and partnerships. Munich is also home to a vibrant and active community, which is reflected in numerous initiatives, events and meet-ups focusing on the topics of digitalisation and new technologies.

The technology companies in Munich exhibit a **high level of innovation and technological excellence**. Evidence for this lies in the significant expenditure on research and development (on average, roughly 7 per cent of turnover) and the hundreds of patent applications in the area of IT and cybersecurity.

Involvement in the **most important international standardisation committees** underlines the globally active role of the technology providers based here. Noteworthy in this regard are, to name just a few, GlobalPlatform, ISO, Common Criteria, Industrial Internet Consortium, W3C, ETSI, FIDO and ICANN. The proportion of Munich-based companies with product certification meeting the highest security standards (e.g. via the Federal Office for Information Security) is also well above the German average.

The aim of the new **Centre for Digitalisation and Technology Research of the German Armed Forces (DTEC.Bw)** at the Bundeswehr University Munich is to strengthen the links between university-based research in digitalisation and key and future technologies in a secure environment, to channel it towards greater innovation and to test new (research-based) cooperation between the German Armed Forces and stakeholders from economy, science, and society. An additional aim is to attract excellent young researchers for the armed forces, science and business. The DTEC.Bw thus serves as a driving force for the German Armed Forces' university-based digitalisation and technology research while also increasing the availability of digital and technological innovations to both public and private stakeholders in Germany.



Technology companies in Munich invest roughly 7 per cent of turnover in research and development.

> 11,000

The Isar Valley is the home of more than 11,000 companies in the IT and communications technology sector.



Munich is Europe's Top ICT Hub.



Flying gardens: The exclusive 'Five courtyards' (Fünf Höfe) are one of the potential sites.



High-quality: real estate

The City of Munich provides a large number of premises ideally suited to meeting the needs of the European Cybersecurity Competence Centre.

High-quality premises centrally located and in direct proximity to cybersecurity companies and research institutions are available.

Munich is already home to numerous European and German authorities and institutions. As a major economic centre, Munich has plenty of experience in providing all manner of support to international organisations and authorities. The partners in administration and real estate work in a goal-oriented and closely linked manner to provide maximum support and ensure that organisations can launch operations in Munich as swiftly as possible. These first-class premises are enhanced by the highest security standards and an exceptional information and communications infrastructure. Links to public transport and international schools are excellent and government authorities and cybersecurity clusters are also easy to reach.

Potential locations

Munich provides a selection of ideally-suited premises, which are available for immediate use and can be offered free of charge. One building is situated in the heart of Munich, two are close to technology clusters and an additional building is in direct proximity to the Bundeswehr University Munich. All the locations have excellent transport links, including to Munich Airport.



Munich International Airport is about 37 kilometres from the city centre. It takes about 35 minutes to drive there or 38 minutes to go by S-Bahn.

European Munich:
The European Patent Office employs more than 3,700 people from 35 countries.



❖ The first-class premises are enhanced by the highest security standards and an exceptional information and communications infrastructure.

Attractive locations in a city of highlights

Munich in figures

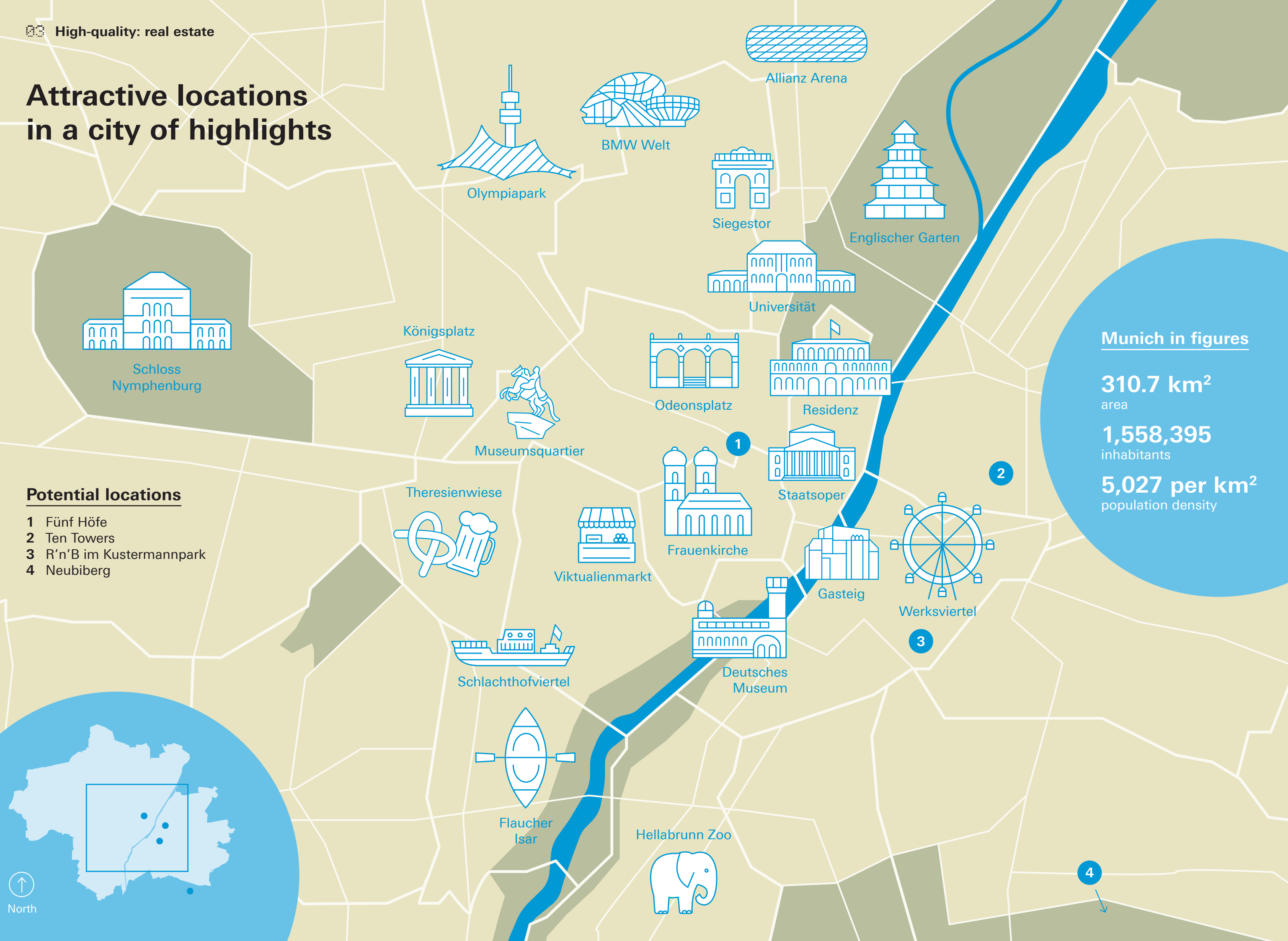
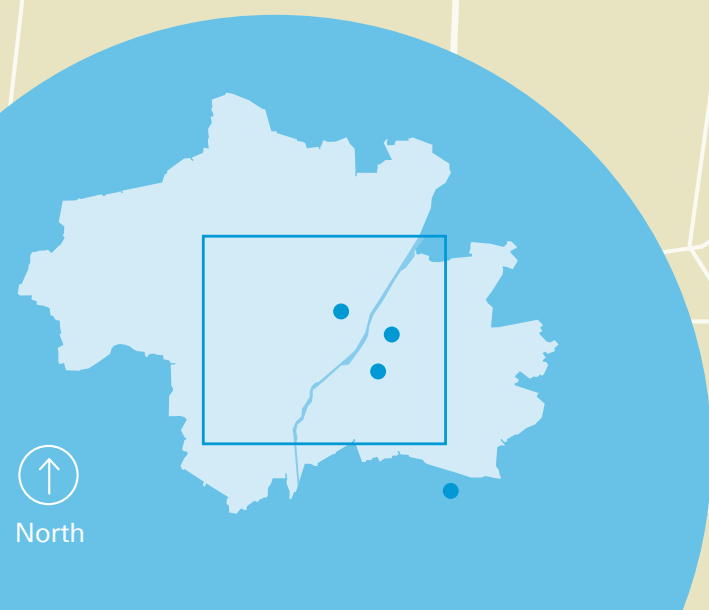
310.7 km²
area

1,558,395
inhabitants

5,027 per km²
population density

Potential locations

- 1 Fünf Höfe
- 2 Ten Towers
- 3 R'n'B im Kustermannpark
- 4 Neubiberg



High-class art: the Marienplatz as Munich's central hub for public transport was designed by the light artist Ingo Maurer.



Outstanding: infrastructure

Munich has excellent transport, telecommunications and energy infrastructure.



The continuous development of all means of transport and Munich's central location along major European transport routes ensure excellent access to all EU Member States and beyond.

The central European location combined with one of the most modern transport networks, which links road, high-speed railway and international airports in and around Munich with one another, ensures that all destinations can be reached quickly. This applies not only to transport links to the entire world, but also mobility within the city itself and its surrounding region. The transport infrastructure thus ideally fulfils the needs of business, everyday life and leisure activities.

Munich Airport is regularly ranked in the top ten of the "World Airport Awards" – in 2020 it was ranked 5th, making it Europe's best airport. In 2019, flights travelled to 254 destinations in 75 countries.

However, the transport infrastructure is not the only aspect in a class of its own. The technological infrastructure is likewise of the very highest quality. Munich and the surrounding region boast a **well-developed broadband network** and a **high-performance mobile phone network**. The large-scale fibre optic network delivers high-speed internet. In 2019 Munich was among the first five cities in Germany in which the new 5G network was launched. The shortlisted premises for the European Cybersecurity Competence Centre possess an excellent information and communications infrastructure.

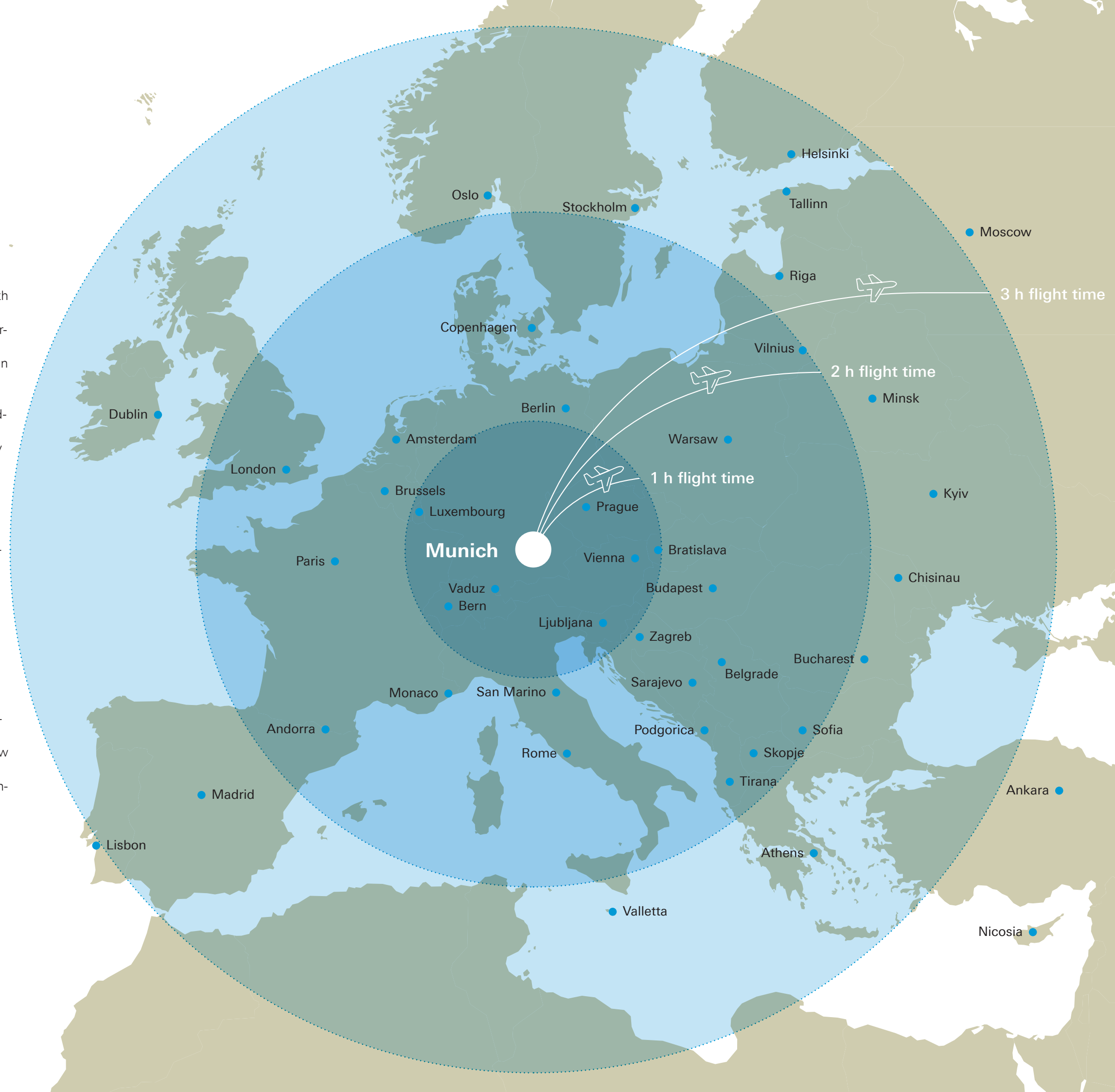
❖❖ Munich can be reached quickly from all European capitals.



Munich Airport is Europe's best Airport.



A well-developed broadband network and a high-performance mobile phone network and the large-scale fibre optic network delivers high-speed internet.





Attractive professional environment: Bavaria offers excellent surroundings for work and leisure activities.



Highly skilled: labour force

Bavaria is a popular choice among highly skilled workers as a place to both live and work. The excellent conditions increasingly attract skilled workers from all over the world.

Citizens from over 180 countries have made Munich their home. More than one in four residents has foreign citizenship. Munich draws top talent from all sectors, not least because of the high standard of living.

Qualifications and training are the key resources among Munich's labour force. The knowledge and skills they possess guarantee prosperity and are the decisive reason why many international companies set up base here. Highly skilled workers can be found quickly here. Various organisations, such as the Employment Agency, can assist with the search for suitable employees.

Business, research and administrative organisations in Munich have access to a consistently **high number of graduates**. ICT-specific degree programmes are now offered at all Bavarian universities, covering every aspect of the sector. Courses range from computer science and computational engineering to AI and Big Data. Each year, some **4,400 highly skilled university graduates** enter the labour market.

❖ **Munich draws top talent from all sectors, not least because of the high standard of living.**

As the state capital and seat of government, Munich can provide **highly qualified skilled workers** in the areas of **administration and services**. The administration in Bavaria has a longtime experience in handling EU funding programmes, e.g. EFRE, ESF, Horizon 2020 – just to name a few. Thousands of excellently trained graduates from all disciplines emerge from Munich's 22 universities onto the labour market each year. University graduates account for 35.7 per cent of Munich's workforce, making it the highest proportion in German cities. Munich-based companies also attract skilled workers from abroad. Among these renowned organisations are six German DAX-listed companies, as well as global players like Google, IBM, Microsoft and the European Patent Office. Employers can select from a large pool of international **skilled workers and talent**.



Each year, some 4,000 highly skilled ICT university graduates enter the labour market.

35.7 %

University graduates account for 35.7 per cent of Munich's workforce, making it the highest proportion in German cities.



First-class: education and training

From childhood on children and youths enjoy education and training in excellent schools and facilities.

In Munich, young families benefit from a dense network and variety of childcare facilities, which provide children with an **excellent start in education**. Families from across the world are highly welcome here: Over 70 facilities offer **bilingual childcare or teaching**.

State- and city-run primary schools as well as the secondary schools are **cost-free**. In addition, various private schools have been set up in the Munich Metropolitan Area. These schools offer teaching in multiple languages or extensive supplementary programmes and cover primary as well as secondary education.

For decades, Bavaria's school pupils have been **among Europe's elite**. Alongside the qualification appropriate to the type of school, the education institutions place a high value on teaching soft skills. Courses impart general and subject-specific knowledge, but also key skills such as teamwork, independence, creativity and thinking outside the box, thus giving children and youths an ideal foundation for their developing personalities.

The **European School Munich, 16 international schools** and a growing number of multilingual educational offers underline the international approach to education and training and provide an excellent foundation for young people to enter into their adult lives. The children of EU civil servants receive prioritised and cost-free access to the European School Munich.

Munich's **22 universities** offer a **great range of educational opportunities**. A total of around 130,000 students are registered in the universities' various study programmes. A considerable number of programmes are also available in English.

Munich is home to two of the world's leading universities. In the Times Higher Education World University Ranking 2021, the **Ludwig-Maximilians-University (LMU) Munich** achieves the highest ranking in the EU (and is ranked 32nd globally). Ranked third in the EU (and 41st globally) is the **Technical University of Munich (TUM)**. Both are among Germany's first three Universities of Excellence. Although students benefit from **first-class research and teaching**, their education is free, as there are no fees involved.

❖❖❖ **The European School Munich, 16 international schools and a growing number of multilingual educational offers underline the international approach to education and training.**

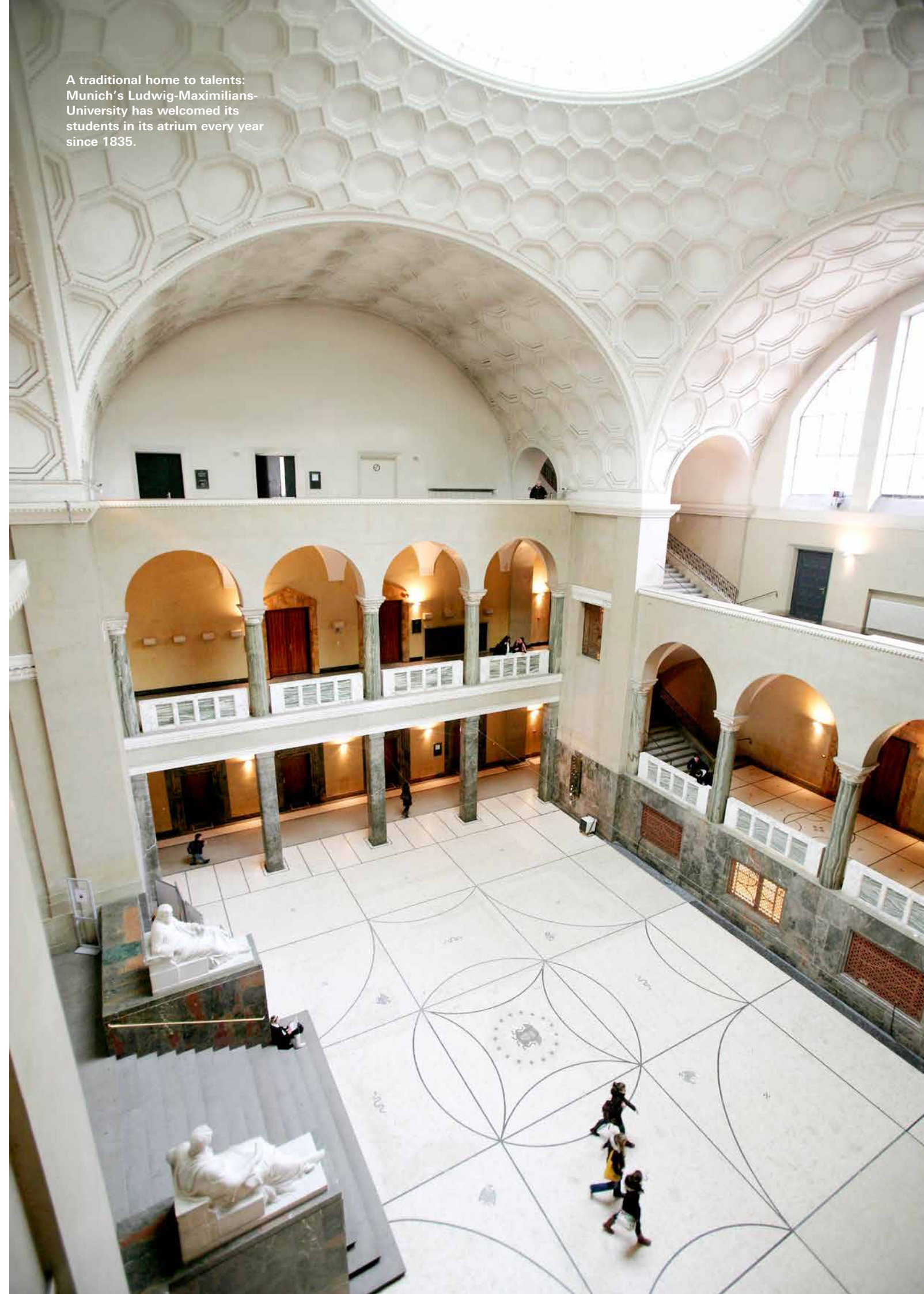


School attendance is cost-free.



Munich's 22 universities offer a great range of educational opportunities.

A traditional home to talents: Munich's Ludwig-Maximilians-University has welcomed its students in its atrium every year since 1835.



A world-renowned attraction:
Surfers from all over the world visit
Munich's English Garden to ride
the 'standing wave'.



Open-minded: international outlook

In its almost thousand-year-long history, Bavaria has always taken an international approach and been linked both culturally and economically to key European and global centres.

The City of Munich is the living symbol of Bavaria's **open-minded, international outlook**. 44 per cent of Munich residents have roots outside Germany.

In particular, the high-tech sectors have attracted numerous international experts to Bavaria's research and development institutions. Work which transcends linguistic and geographical boundaries has helped to create a **cosmopolitan culture** in which experts and their families from many countries work together and benefit fully from Bavaria's advantages as a place for living and working.

Expats and locals, with the help of Munich and Bavaria, have created a **diverse cultural and educational infrastructure**, which is based above all on partnerships with universities, towns and cities and local communities, as well as with schools and research institutions. The internationalisation of the region's universities has been an ongoing process for years. Bavaria's university landscape, in particular the elite universities LMU and TUM in Munich, is now firmly integrated in international networks and partnerships. Some 4,000 active partnerships have arisen between Bavarian-based organisations and other institutions throughout the world. Study programmes as well as research and teaching meet the highest international standards. Children in 16 international schools and more than 70 bilingual childcare facilities benefit from Munich's international character from an early age.

✦ In particular, the high-tech sectors have attracted numerous international experts to Bavaria's research and development institutions.

With more than 100 consulates and consulate generals, Munich has the second-highest concentration of foreign diplomatic bodies in Germany. Over **400 international culture and leisure clubs** form a vibrant part of the society and offer expats a piece of home away from home.

Messe Munich for international trade fairs, and numerous conferences enjoy worldwide reputation. Munich also attracts and charms millions of tourists annually from all over the world. The **Okttoberfest** is a perfect symbol of life in Munich: rooted in tradition yet open-minded.



Over 400 international culture and leisure clubs form a vibrant part of the society.

44 %

of Munich residents have roots outside Germany.

Vibrant internationality:
Expats from over 180 nations live in Munich.





Perfect: location

Located in the heart of Europe, Munich offers outstanding framework conditions for European institutions. People of every nationality and culture feel at home here.



Fantastic view: Visitors of the roof-top terrace of the Technical University of Munich can let their gaze wander over the splendid panorama of the Alps.

Rich cultural offerings, vibrant traditions, diverse leisure opportunities and well-preserved nature all help to make Bavaria a great place to live.

Its central position along Europe's major transport routes ensures **ideal connections to all EU Member States**. All European capitals can be reached from Munich within three hours.

The city offers **first-class accommodation and conference spaces** of all sizes and suitable to every budget. 470 hotels and bed and breakfasts with 88,000 beds host some 8.75 million guests annually. The International Congress Centre Munich (ICM) enjoys an international reputation as a leading location for major congresses and events. Other attracting event locations include the Alte Kongresshalle, the Olympiahalle, the Muffatwerk, the Eisbach Studios, the MVG Museum and the BMW Welt – a masterpiece of modern architecture.

Further architectural highlights include the palaces of the Bavarian kings, above all Neuschwanstein Castle, situated close to the City of Munich. Four UNESCO World Heritage sites and the beautiful Alps are always worth a visit. Lake Starnberg, Lake Ammersee and Lake Chiemsee offer wonderful opportunities for sailing, swimming and leisurely walks. All of these attractions are just a stone's throw from Munich.

❖ **Munich's central position in Europe ensures perfect connections to all EU Member States.**



8.75 m

Munich hosts some 8.75 million guest annually.

4

UNESCO World Heritage sites just a stone's throw from Munich.



Attractive sights: The Hofbräuhaus (above) and the BMW visitors' centre (below) attract millions of international guests every year.



One of Munich's finest landmarks: The Monopteros in the English Garden was erected in 1836 and is a popular meeting point for the city's youth.



Excellent: quality of life

In the current Mercer Quality of living city ranking, Munich is placed among the world's top. This is no surprise: Where else can you find urban flair, wonderful nature, and countless leisure activities in such close proximity?



World-class art: "The Great Last Judgement" (~1617) by Peter Paul Rubens in the Alte Pinakothek.

09 Excellent: quality of life

With its shallow gravel banks and broad, grassy perimeters, the River Isar is Munich's blue lifeline. It is the perfect place to walk, jog, cycle and paddle. Expansive parks make Munich a green city: the Olympic Park, Westpark, Nymphenburg Park and Hellabrunn Zoo are just a few noteworthy examples. However, the **English Garden** undoubtedly is exceptional! As one of the world's most expansive park landscapes, it attracts locals and tourists alike with its picturesque streams, lakes and lawns, as well as with its cafes and beer gardens. Nothing beats relaxing with a tasty snack under a chestnut tree in full bloom. The surfers on the Eisbach Wave have become a major attraction. Even in winter, surfing enthusiasts gather here to ride the wave.

Munich is one of the world's most liveable cities – and for many it is also the most lovable. The New York Times loves our "picture-postcard city". And it is true: Choose any measure – economy, education, infrastructure, safety, culture or the quality of life – in all of these Munich is a real champion. The same goes for football, of course, with the FC Bayern München as one of the world's most successful clubs.

Personal safety is a key factor when it comes to quality of life: Munich is Germany's safest city and one of the safest cities worldwide. A low crime rate, effective law enforcement, as well as a stable social and political environment help to ensure the well-being of locals and expats alike. Cybersecurity is at a similarly high level due to an outstanding cybersecurity architecture and powerful government authorities in this area.

❖ **Munich is Germany's safest city and one of the safest cities worldwide.**



White splendour: The Alps are just a one-hour drive away from Munich.

Should the need arise, excellent doctors in 52 hospitals in Munich offer an exceptionally high level of medical care. The hospitals of the Ludwig-Maximilians-University Munich and the Technical University of Munich are among the world's top 100. Germany has one of Europe's **best healthcare systems**, with a dense network of doctors and hospitals, the best ratio of hospital beds to residents in Europe (eight beds per 1,000 residents), and the shortest waiting time for appointments with specialists in the EU. The German health system offers comprehensive insurance cover and high-level services.

Munich also offers an excellent **labour market**: Thanks to the presence of international companies, Munich offers international skilled workers a broad range of career opportunities. Many international companies whose working language is English have a base in Munich. The European Patent Office employs more than 3,700 people from 35 countries.



Munich is one of the world's most liveable cities – and for many it is also the most lovable.

Munich's unemployment rate amounts to only 3.3 per cent, one of the lowest in Europe (2019). EU citizens have full, unrestricted access to the labour market. Plenty of support is available to job seekers when it comes to gaining recognition for school, professional and university certificates or qualifications which were obtained abroad.

But of course, life is about more than just work and Munich is brimming with **cultural life and leisure time activities**. Munich's culture has something for everyone: Germany's largest opera house, world-famous

Many international companies whose working language is English have a base in Munich.

museums with masterpieces from many centuries, top-class orchestras and countless festivals are the obvious highlights. However, the bar and club scene also enjoys a legendary reputation. Whether you prefer jazz, rock, techno or electronic music, there is something to please everyone.

Munich also offers an **exquisite dining** landscape. In twelve Michelin-star restaurants as well as numerous other restaurants, bistros, and cafes, connoisseurs and food lovers will delight in the culinary diversity. If the weather is kind, Munich's many beer gardens offer an excellent alternative and the chance to enjoy a typical piece of Munich life with beer and pretzels. Munich is a very welcoming city which is down-to-earth, conscious of tradition but also open-minded – and with its heart very much in the right place.

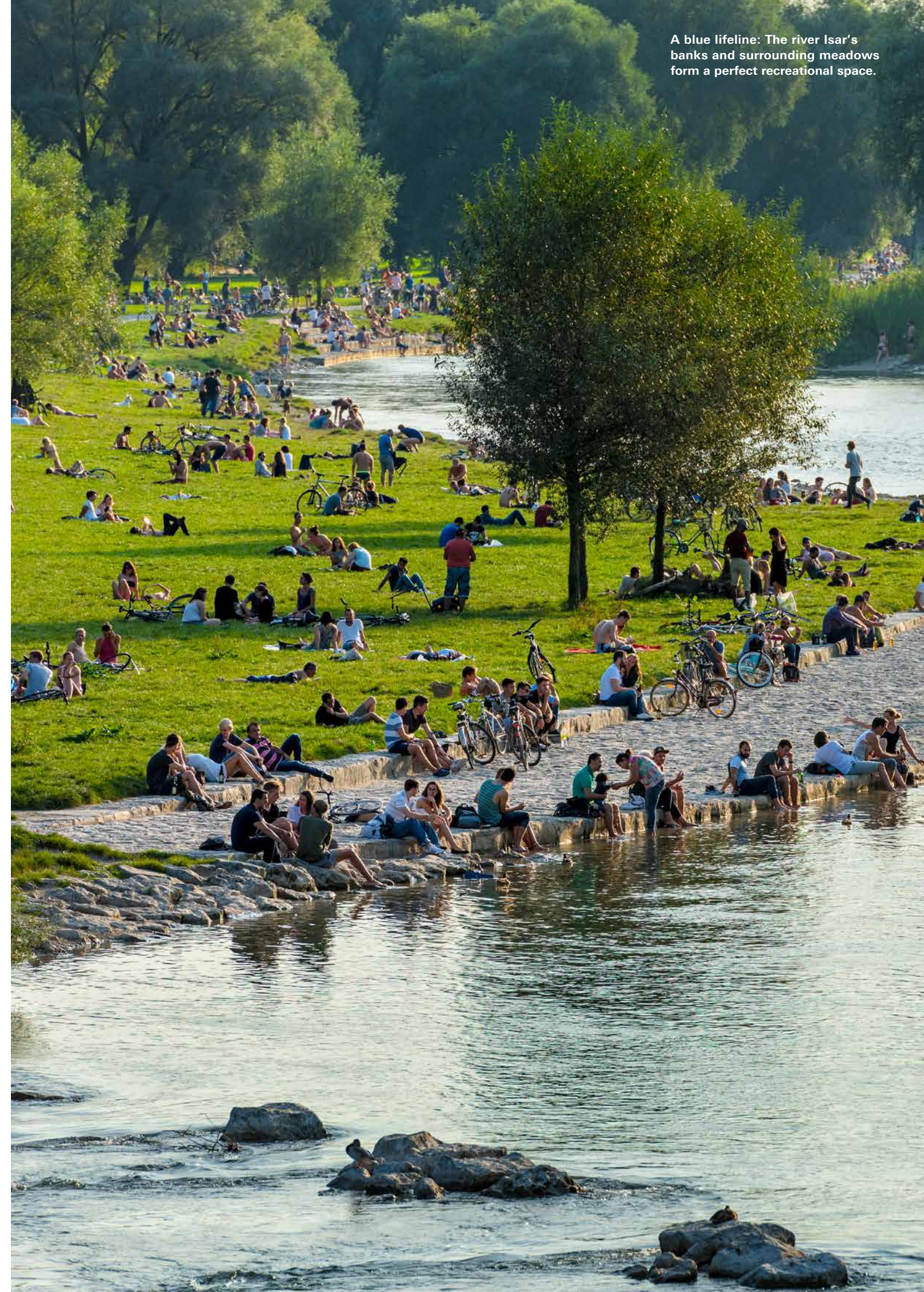
A Bavarian classic: The Weißwurst is traditionally served with sweet mustard and pretzels.



In twelve Michelin-star restaurant connoisseurs and food lovers will delight in the culinary diversity.

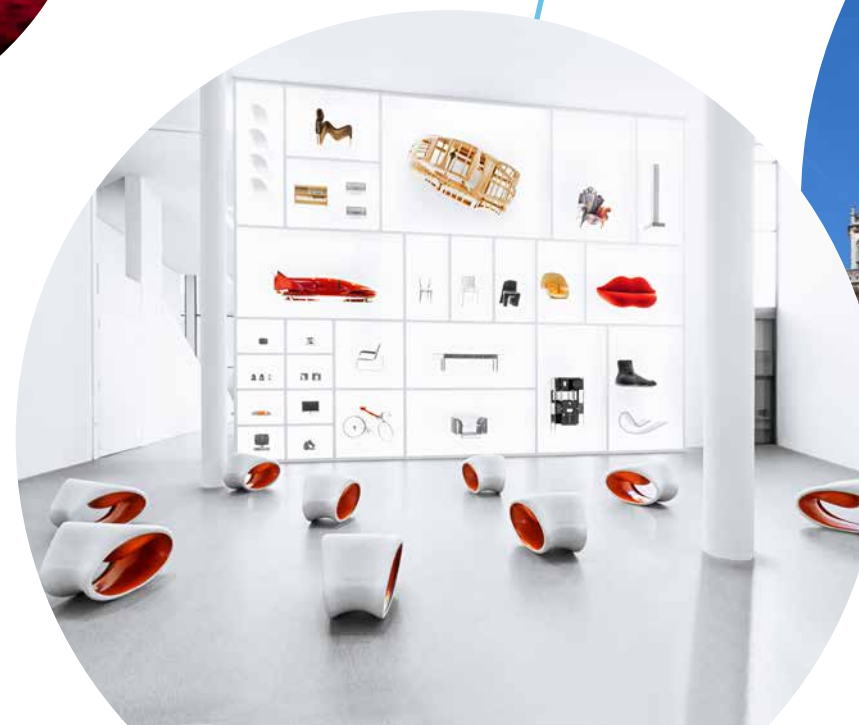


A blue lifeline: The river Isar's banks and surrounding meadows form a perfect recreational space.





Munich
at a glance
livable
lovely
adorable



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