

Becoming Europe's No. 1 Cybersecurity Location



Largest university location for IT security in Europe with the Horst Görtz Institute for IT Security and the Ruhr University Bochum



Home to 500 IT and IT-Security companies – **Growing** 40 start-ups in the IT-Security sector



Home of the European Competence Center for Information Technology Security "eurobits e.V." and the Competence Center for Cybersecurity "DIGITAL.SICHER.NRW."

IT Security in Bochum– Excellence in Research

- **Horst-Görtz-Institute for IT-Security:** located on the Ruhr-Universität Bochum (RUB) campus, it is Europe's largest university institute in this field, with 18 chairs, more than 200 scientists, more than 1000 students and 32+ internationally renowned professors. It is home to the Cluster of Excellence CASA, whose research goal is sustainable security against large-scale, primarily nation-state attackers.
- **Max-Planck-Institute for Security and Privacy:** The tasks of the Max Planck Institute (MPI) are the development and research of technical fundamentals, interdisciplinary aspects of IT security as well as data protection. The MPI is a competence center for basic research and training of scientific leaders.
- **CAIS – Center for Advanced Internet Studies:** Here, research is conducted in the area of social opportunities and challenges of the digital transformation.



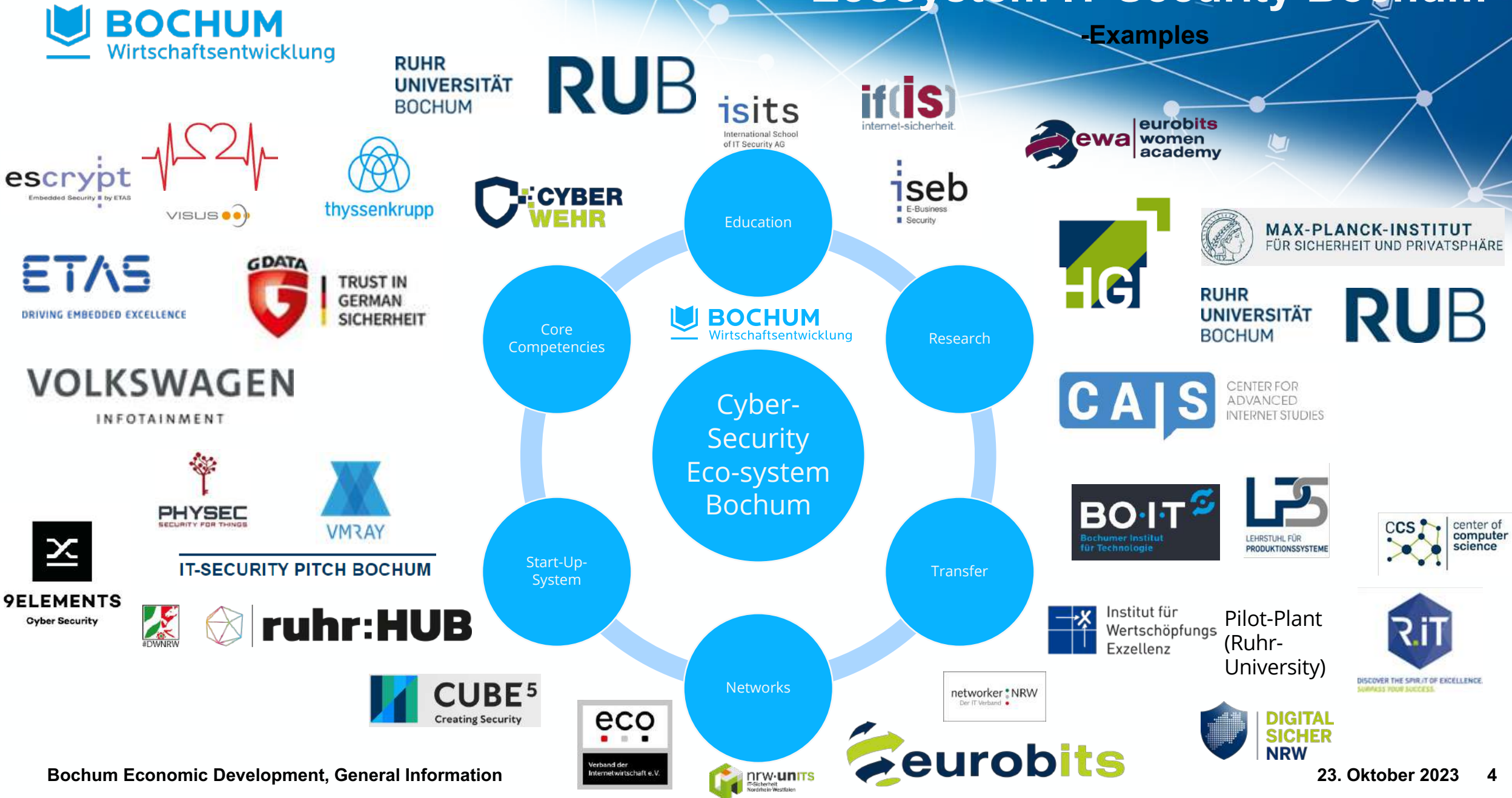
MAX PLANCK INSTITUTE
FOR SECURITY AND PRIVACY



**CENTER FOR
ADVANCED
INTERNET STUDIES**

Ecosystem IT-Security Bochum

-Examples

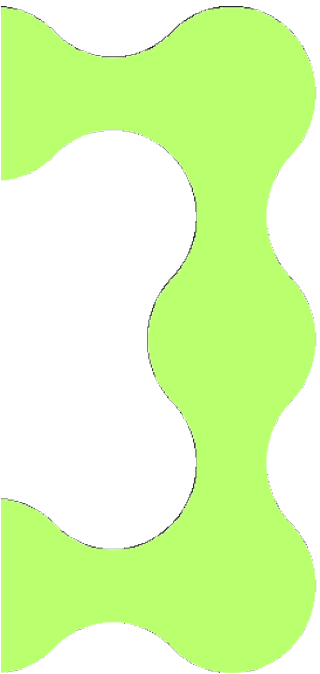


IT Security – A Selection

- **ESCRYPT:** The leading provider of IT security solutions in embedded systems is a spin-off of the Horst Görtz Institute for IT Security in Bochum. Especially in the field of automotive security, solutions from the BOSCH eTAS subsidiary are already utilized millions of times today.
- **VMRay:** Since 2013, the mission of the Bochum-based start-up has been to protect numerous corporate and government networks from around the world against digital attacks with their unique technology.
- **Physec:** With their unique combination of applied cryptography and communications engineering, the multiple award-winning Bochum-based company offers innovative security solutions for applications all around the Internet of Things.



The Bochum Tech-Community Model



Health Economy



Digital Mobility



IT-Security



Smart City



Production Economy



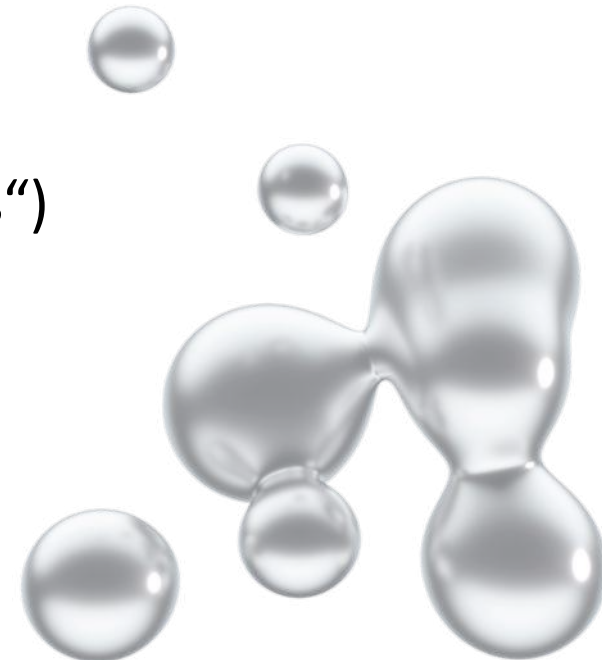
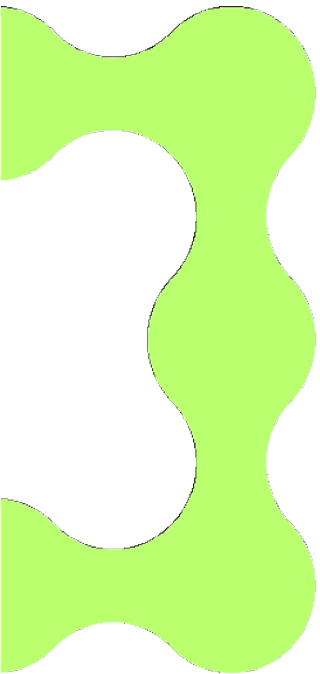
...and further possible communities

BOtechnologies

» Digital approach and development of tech-ecosystems under an umbrella brand in economic regions«

Health Economy	Digital Mobility	IT-Security	Smart City	Production Economy
Agency	Association(s)	Association	Digital UNIT	Guided Network
<p>„Health Campus Bochum“</p> <p>Expert advisory board</p> <p>Initiative Circle (over 80 ambassadors)</p>	<p>„ruhrmobil-e“</p> <p>Board of directors (private, public, science)</p> <p>„Ruhrvalley Cluster“</p> <p>Board of directors (private & science)</p>	<p>„eurobits“: over 50 executive board members</p> <p>Expert advisory board</p> <p>Management office</p>	<p>„SCIU: Smart City Innovation Unit“</p> <p>Unique model in Germany:</p> <p>10 representatives from the city corporation of all municipal companies</p>	<p>„Inno-Network Production“: local CCI and Business Dev. Agency Bochum</p> <p>„InDieRegion Ruhr“ public funded project, regionally operated</p>
<p>Neuro Science</p> <p>Biotechnology</p> <p>Smart Health</p> <p>Professionals</p> <p>Urban Health</p>	<p>„adas“: autonomous driving and assistant systems, e-mobility, digitalization, energy systems, IoT, Smart City</p>	<p>Technology transfer in the fields of Cyber- and Information Security between economy and science</p>	<p>Smart government</p> <p>Smart infrastructure</p> <p>Innov. economy/science</p> <p>Digital society</p> <p>Sustainable Mobility and Environment</p>	<p>Process optimization</p> <p>AI</p> <p>digitalization</p> <p>Resource efficiency</p> <p>Resilience</p> <p>SaaS</p>

- Cross Innovation
- Further digital transformation
- Synergy effects
- Generation of further value added chains
- Promotion (e.g. common trade fair booth „BOtechnologies“)
- Overview: tech ecosystem „at a glance“

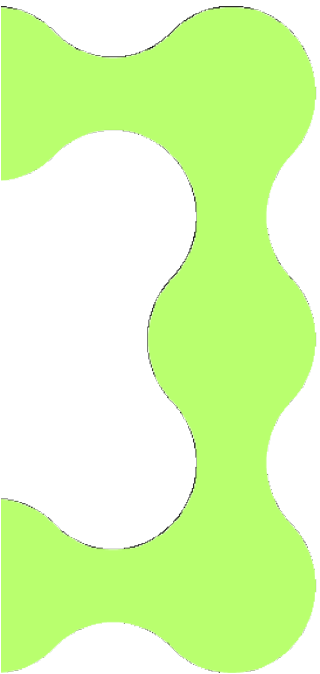


Brand Digital Ecosystem



BOtechnologies – that's technology made in Bochum!

In the synergy of science and business, tech communities have formed in Bochum in the fields of health economy, IT security, e-mobility, production economy and smart city - and more are coming and ready to join them. Under the brand of BOtechnologies, we aim to boost Bochum's reputation as an innovative technology location. Nationally and internationally. Together with you!





Digital Health Factory Ruhr

In an alliance involving the digital health industry, health care, sciences and municipalities, the strengths of the digital health sector will be expanded by developing digital solutions and products for health care in metropolitan areas and profiling the Ruhr region as an innovative key region for this purpose.

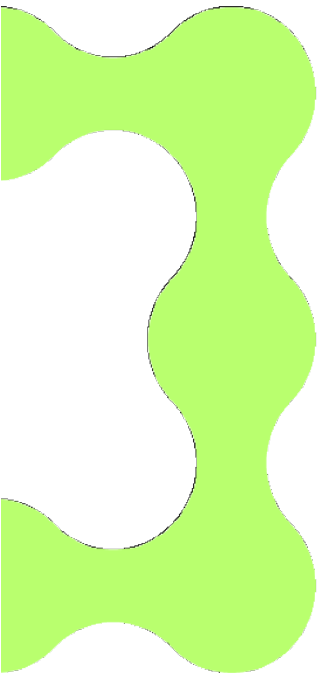
[TO PROJECT](#)



eurobits women academy



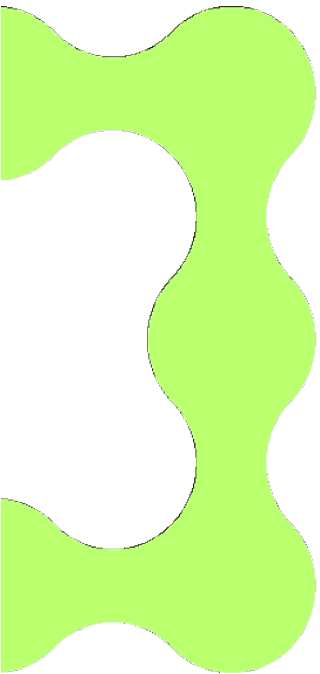
Narrac
IoT



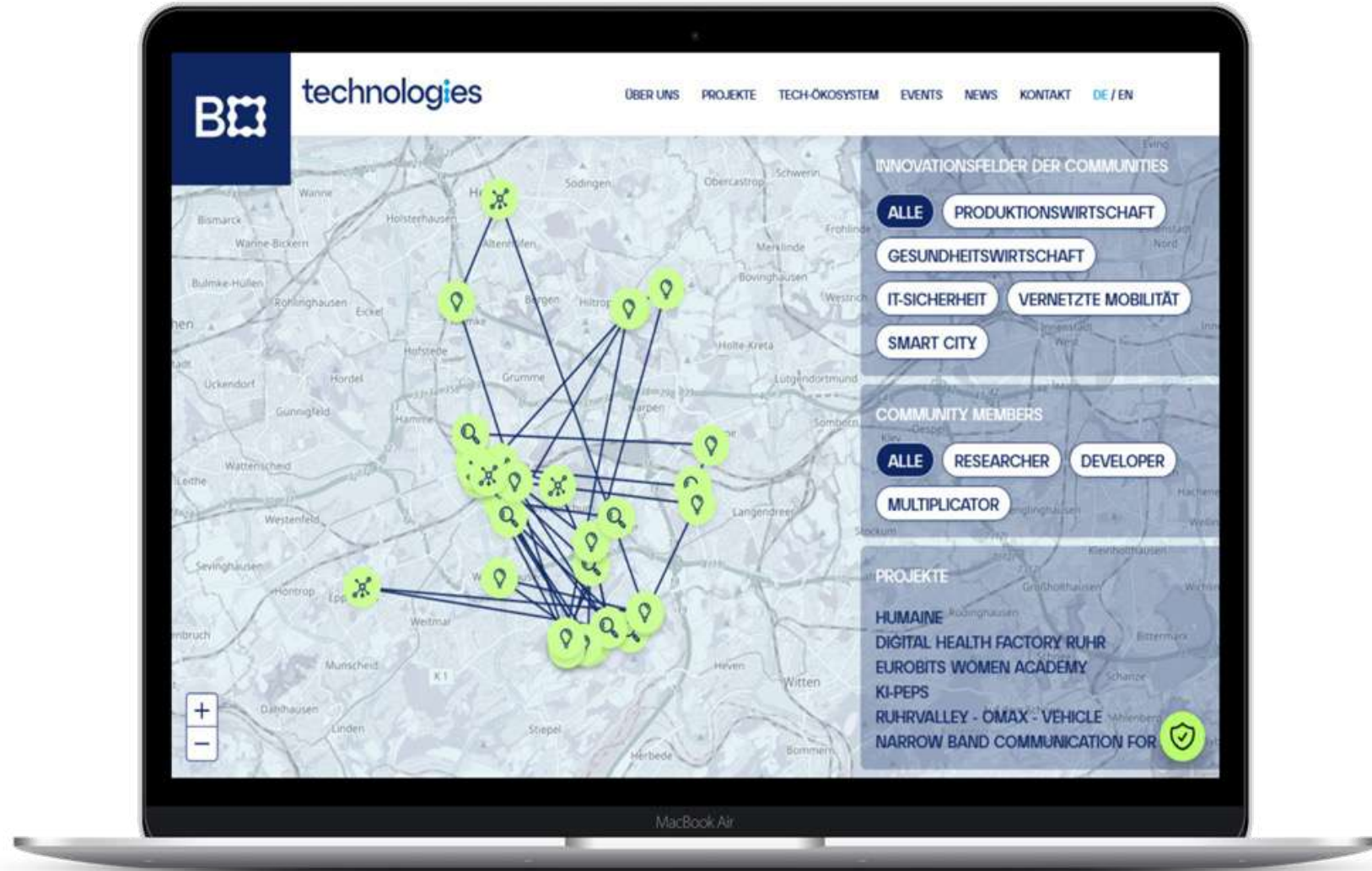
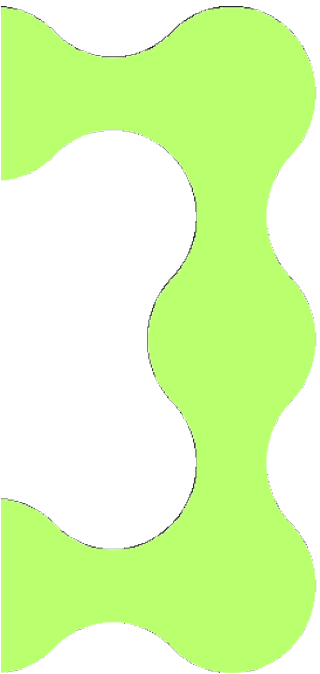


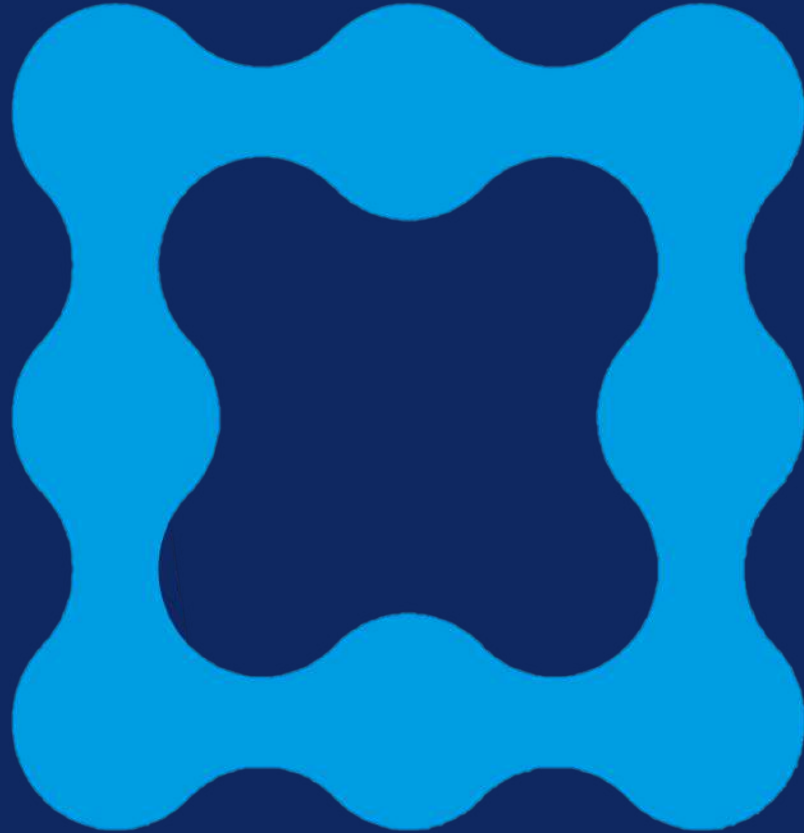
PEOPLE BEHIND THE PROJECTS

Voices of the communities



The Digital Tech-Ecosystem of Bochum





Economic Development – Sustainable and Innovative

Facts and Examples



Comprehensive Business Support

The Bochum Economic Development offers a holistic business environment: Find the right site, connect with relevant networks, get tech advice, and access strong partnerships



We have the same understanding of urban and economic development as city leadership. This does not only shorten decision-making processes, but it also helps to solve technical tasks



We support startups, operate our own technology and startup centers, develop and market office and commercial space and make areas fit for future



MARK 51°7 – the Space for Opportunity



Economical – Sustainable – Future-oriented

MARK 51°7 bears your costs in mind:

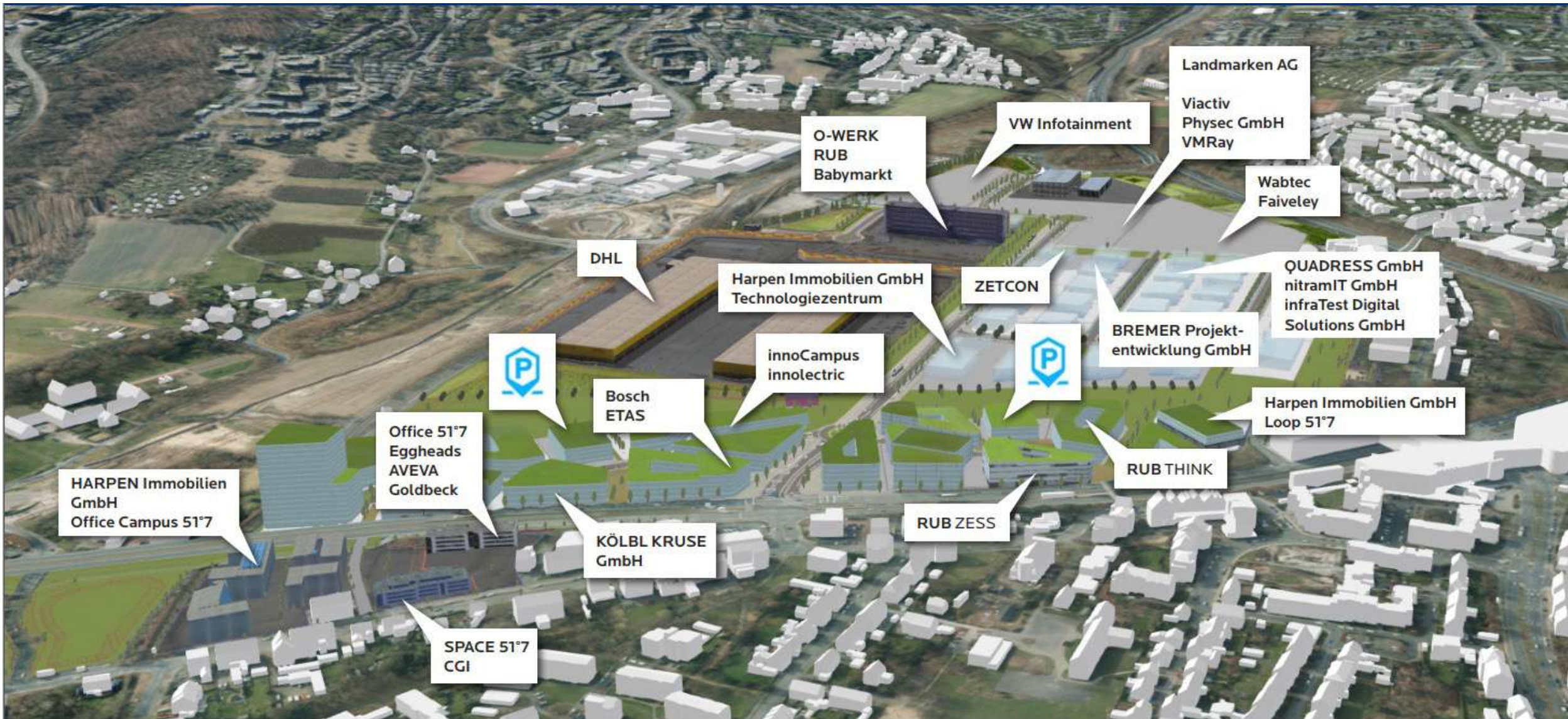
- Primary energy factor below 0.5 by using geothermal energy for heating and cooling
- Feed-in of surplus energy into the local district heating network by the companies
- Fast data transmission through an extensive fiber optic network with transmission rates > 10 GB/sec
- Direct access to the world's largest internet exchange points in Frankfurt (DE-CIX), as well as in Amsterdam (AMS-IX)





Companies and Investors

R&D Projects



Bochum – A City full of Opportunities

General Information



The City of Bochum – Knowledge Is Our Most Valuable Resource



Bochum is an important knowledge and research location in the Rhein-Ruhr region



Bochum ranks seventh in the nationwide Bitkom ranking of the most digital cities, ahead of other major cities



Bochum's startup scene thrives. In 2022, Ruhr Uni Bochum ranked 6th for startup-friendliness and in 2021, we had three top 10 startups in NRW



We are part of the Ruhr Metropolis with 53 cities and over five million inhabitants, making it the third largest metropolis in Europe



The proximity of research and education to the business world creates a unique environment for innovation and entirely new partnerships for both large and small companies



Nine universities with more than 60,000 students are the foundation for the economic success of our city - and at the same time our talent factory for our future specialists and managers

Bochum – A City Worth Working In



Bochum Main Station – Entrance to the Heart of the City

Proximity, Transport, and Modern Hotels



Bochum offers convenient access to city decision-makers, providing a direct line of communication



The city enjoys excellent transport connections, including direct reach within 30 minutes to the airports in Dortmund and Düsseldorf



The main train station (long-distance travel) is ensuring easy access for internal and external stakeholders



Bochum is experiencing an increase in modern new hotel offerings in the city center, including GHotel, Nena Apartments, B&B Hotel, Be.cause, Premier Inn, and Holiday Inn Express, enhancing convenience for business travelers

BERMUDA3ECK

Bochum – A City Worth Living In



Oasis for Leisure and Relaxation Bochum along the Ruhr

Affordable, Cultural, and Green



Bochum has a significantly lower cost of living and lower rents compared to other major cities



It boasts a renowned cultural scene, for example with the Schauspielhaus being named as 'Theater of the year' in Germany 2022, hosting the largest open-air music festival in the country and being home to the most successful nationwide musical production



With nearly 70% of its area covered in green spaces, Bochum ranks among the top cities in NRW, clearly outperforming other major cities



Bochum is a fantastic place to party. The Bermuda3Eck is the largest nightlife district in the Ruhr Area



Access to outstanding Cybersecurity HUB



IT security is crucial, especially for international companies facing rising cyber threats; Bochum's strong IT faculty educates the security experts of tomorrow



The Horst-Görtz-Institut is the most renowned and largest institution for research in IT security and the Max-Planck-Institut provides excellent research in IT security



Bochum's innovation hub in IT security drives tech development and facilitates knowledge transfer to industry through the institutions ZESS and think about IT

どうもありがとうございます

**Thank you
for your attention.**

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