BOCHUM
Smart City

Becoming a resilient Smart City

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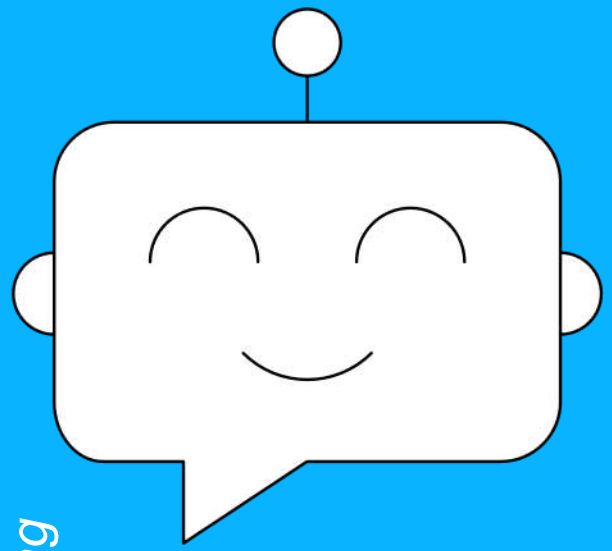
Chief Digital Officer



(Bundesinstitut für Bau-, Stadt- und Raumforschung 2017, Smart City Charta)

» Smart cities are committed to sustainable and integrated urban development. Digital transformation offers cities, counties and municipalities opportunities on the path to sustainable development and aims to solve key urban development challenges in a resource-efficient, demand-driven way."

BOCHUM
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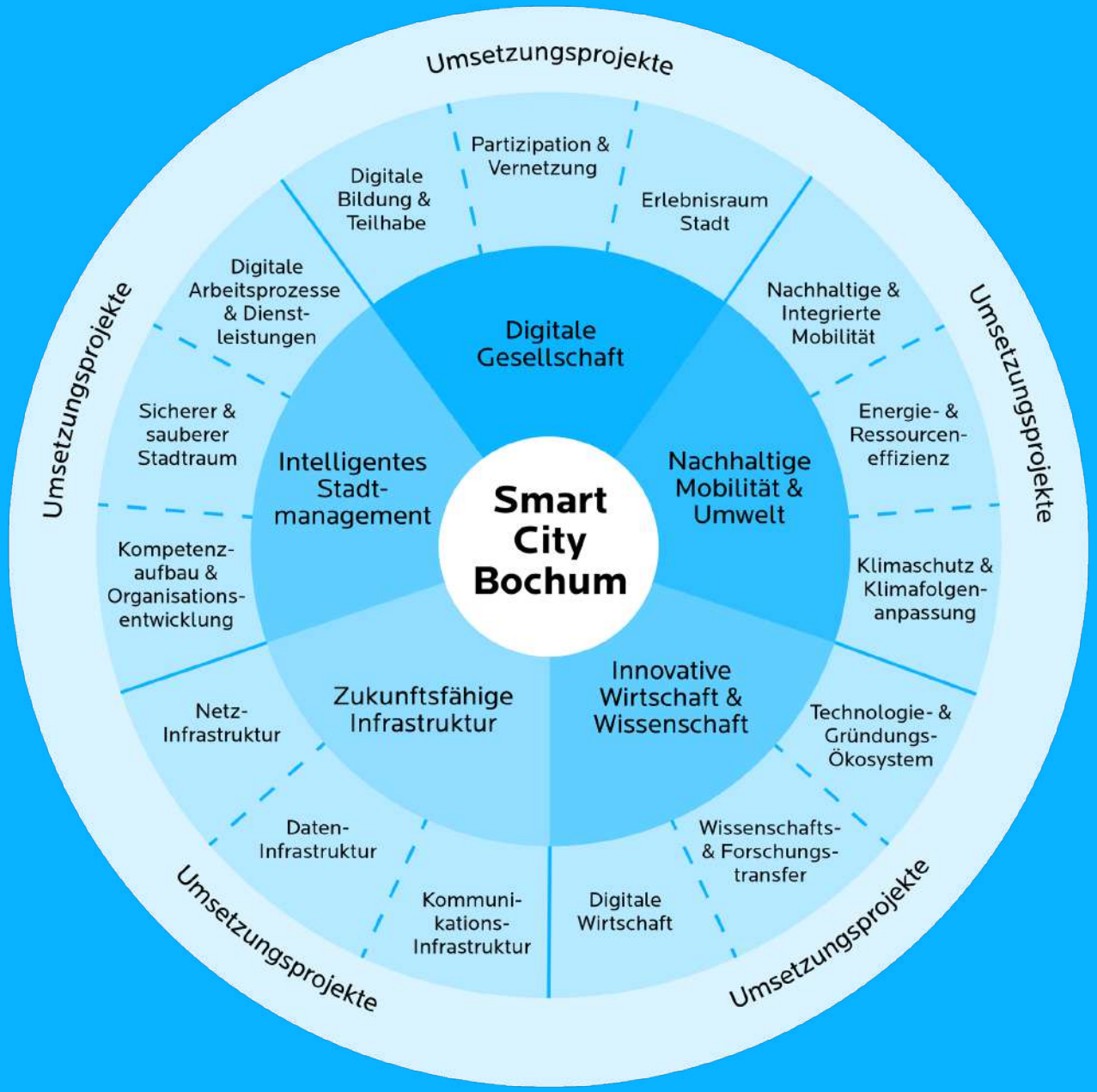
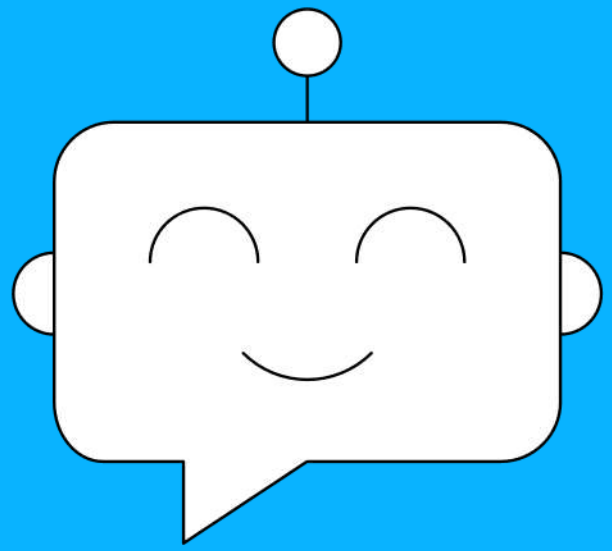
"We create technological and social innovations primarily in our focus areas of IT security, health and mobility.

"Bochum. Fit for the future. Close to the people." is fully in line with our Bochum formula "Knowledge. Change. we-feeling." and supports the goals of the Bochum Strategy."





Core objective for the guiding theme Intelligent Urban Management:

- We offer our services digitally & easily accessible
- We consistently invest in the digital skills of our employees and actively involve them in cultural change
- We use digitization as an opportunity for modernization
- We review our internal processes and structures for efficiency and sustainability
- IT security and data protection are the basis of all our processes
- Using of Open Source as much as possible

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Smart City Projects in Bochum

Working on different levels of resilience

Bochum App

Goal:

Bundling of Bochum services and offers from the city of Bochum and municipal utilities in a Bochum app.

Builded on a Open Source core

Smart benches in urban space:

Goal:

12 smart benches will be set up in Bochum's city districts and offer citizens the opportunity to charge their smartphones and e-bikes free of charge. In addition, environmental sensors and free and secure WiFi.

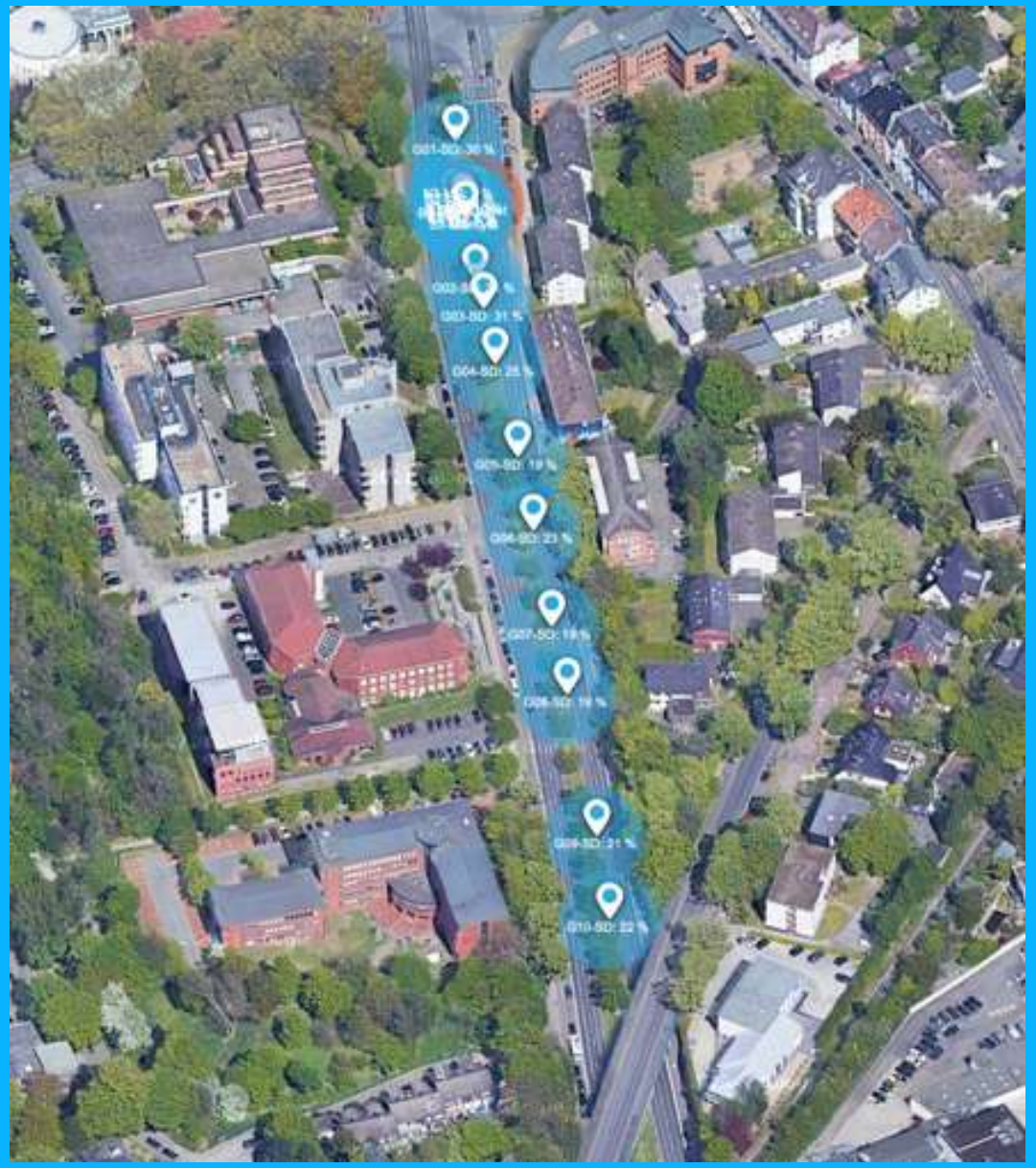
Showcase for energy self-sufficiency in the urban space.

Understanding climate change

Goal:

Gain a better understanding of climate change and derived consequences for the city.

Among other things, soil moisture measurement of trees, water sensor technology for quality monitoring and much more.



Digital civic participation

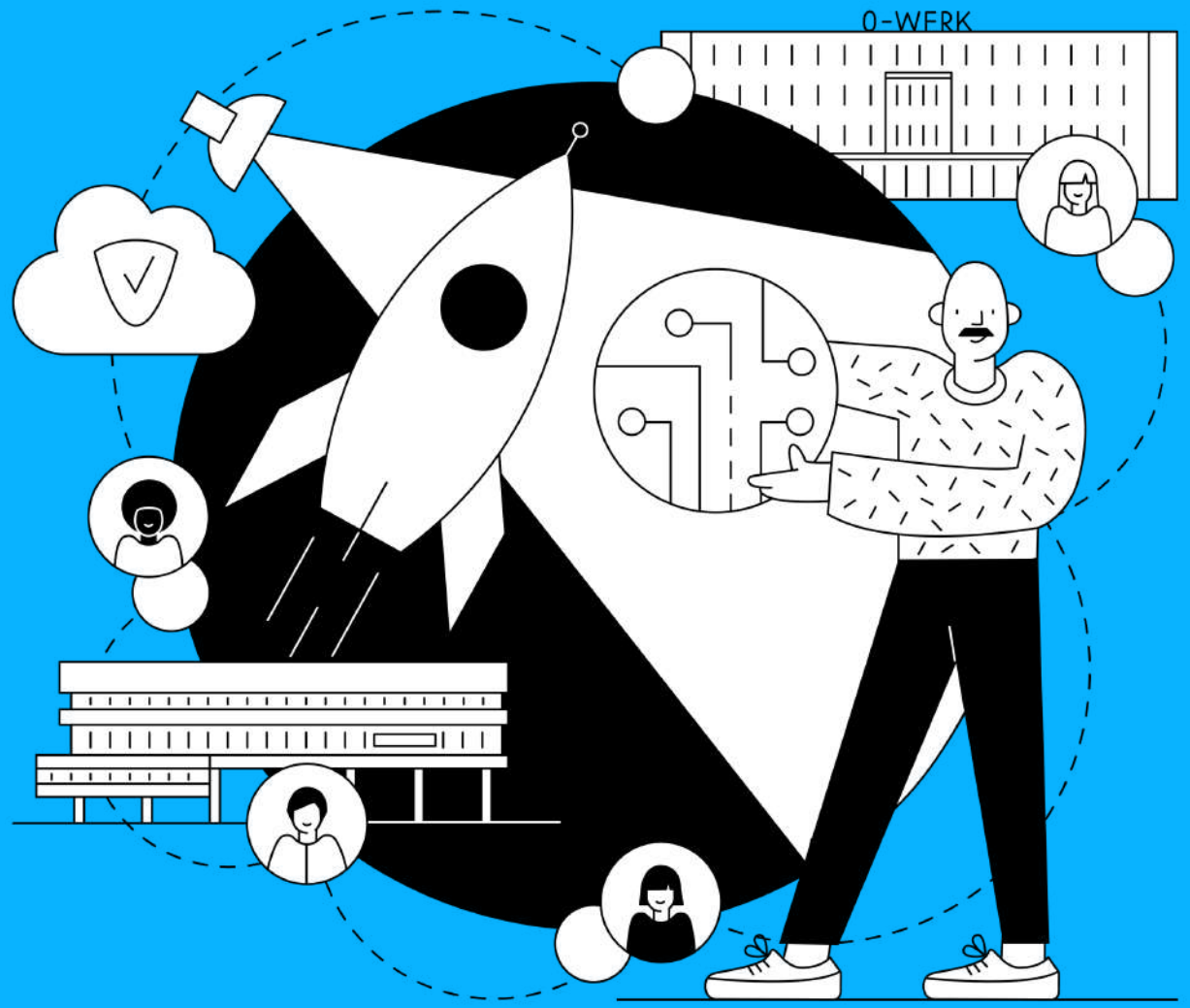
Goal:

Enabling citizen participation digitally as well.

Using a platform to enable all departments in the city to easily carry out digital participation formats.

Smart City and IT Security

Pulling together



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IT Security has never been so important as today. In bochum we are fully aware of this.

- Mandatory IT security training for all employees
- security by design for all processes
- active lifecycle management for the entire infrastructure
- Server location secured according to BSI (German Cyber Security Agency) guidelines
- Working with IT security experts

A fire department for IT security: „Cyberwehr“

- The small or medium-sized enterprise (SME) dials the toll-free number of the cyber defense emergency call center: 0800 1191112.
- A brief telephone assessment follows
- If it is indeed a cyber attack, an official Cyberwehr partner is assigned to provide first aid directly and free of charge, either on-site or remotely
- The Cyberwehr partner makes an inventory and gives the SME a recommended course of action - from here, the paid reconstruction of the system begins
- The Cyberwehr proceeds transparently at all times
- At the start, Cyberwehr is active in Bochum, Essen and Gelsenkirchen

Together we make Bochum smart and digital! And secure.

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