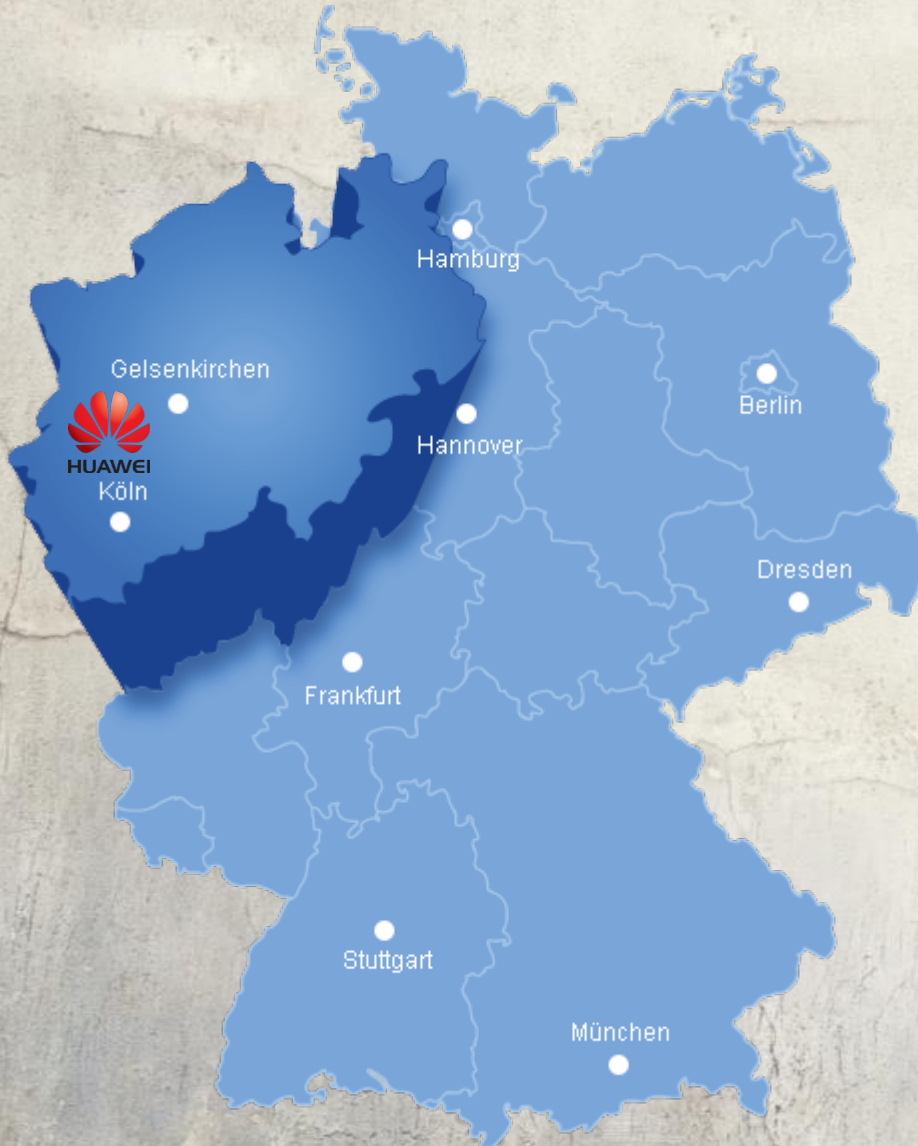




WIR # DIE VERNETZTE STADT

Manfred vom Sondern, CDO, Stadt Gelsenkirchen

Gelsenkirchen in the Rhine-Ruhr area

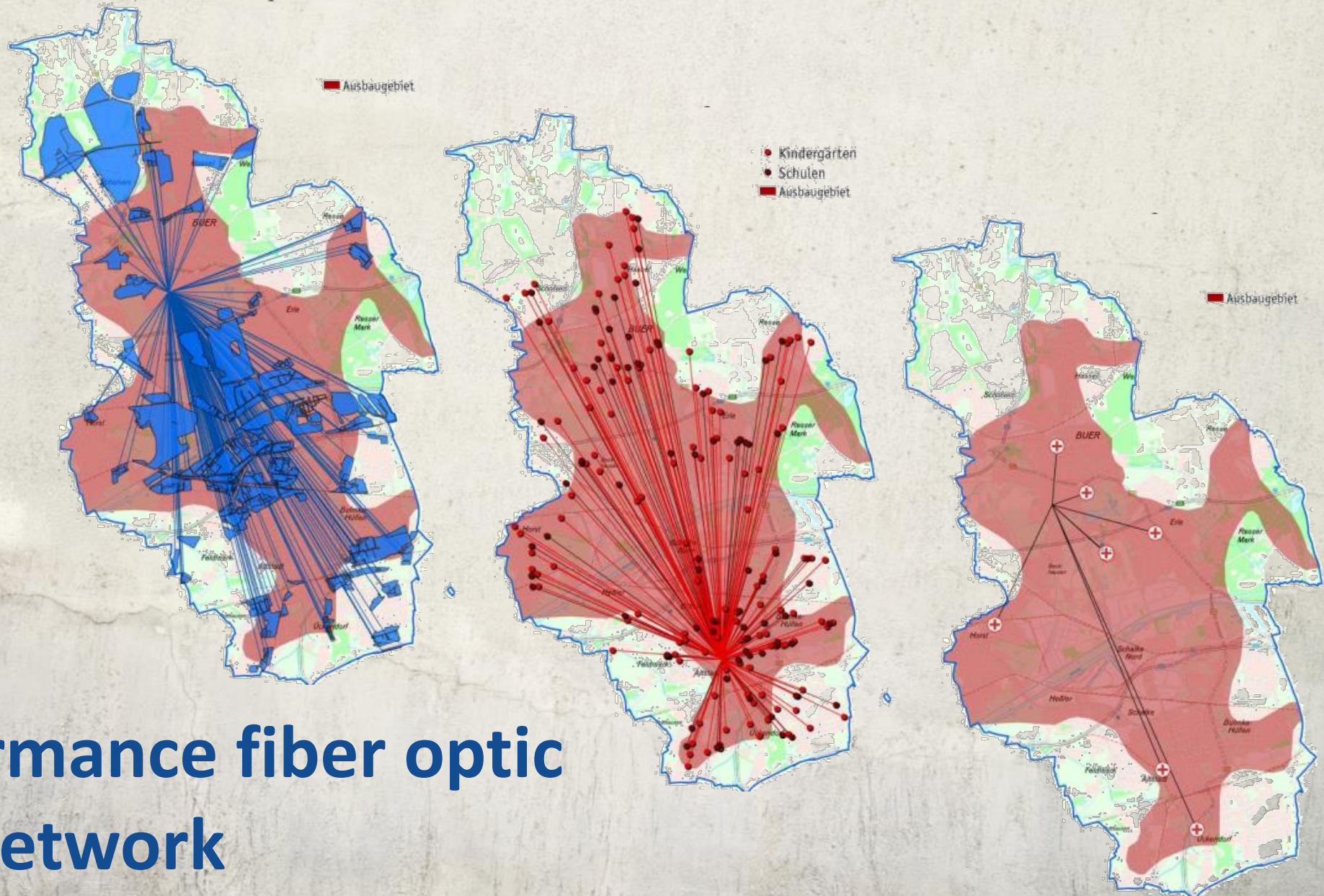


- located in the heart of the **Rhine-Ruhr metropolitan area**
- one of the largest cities in North Rhine-Westphalia
(265.000 inhabitants)
- the largest economic zone in Europe after London and Paris.

Main players of the connected city




**The basis:
a high-performance fiber optic
broadband network**




Partner (selection)



Fields of Activities

Digital
Government 

 Education
Research
Innovation

Digital
Living 

 Business
Energy

Infrastructure
Urban Development 

 Mobility
sustainable City

 Health



Gelsenkirchen is Fellow City



- One of four cities in Germany and the only city in NRW
- We put Gelsenkirchen on the map!
- We get support to “..make our city more liveable, more productive, and more innovative”

Gelsenkirchen is one of five Digital Model Cities / Regions in NRW



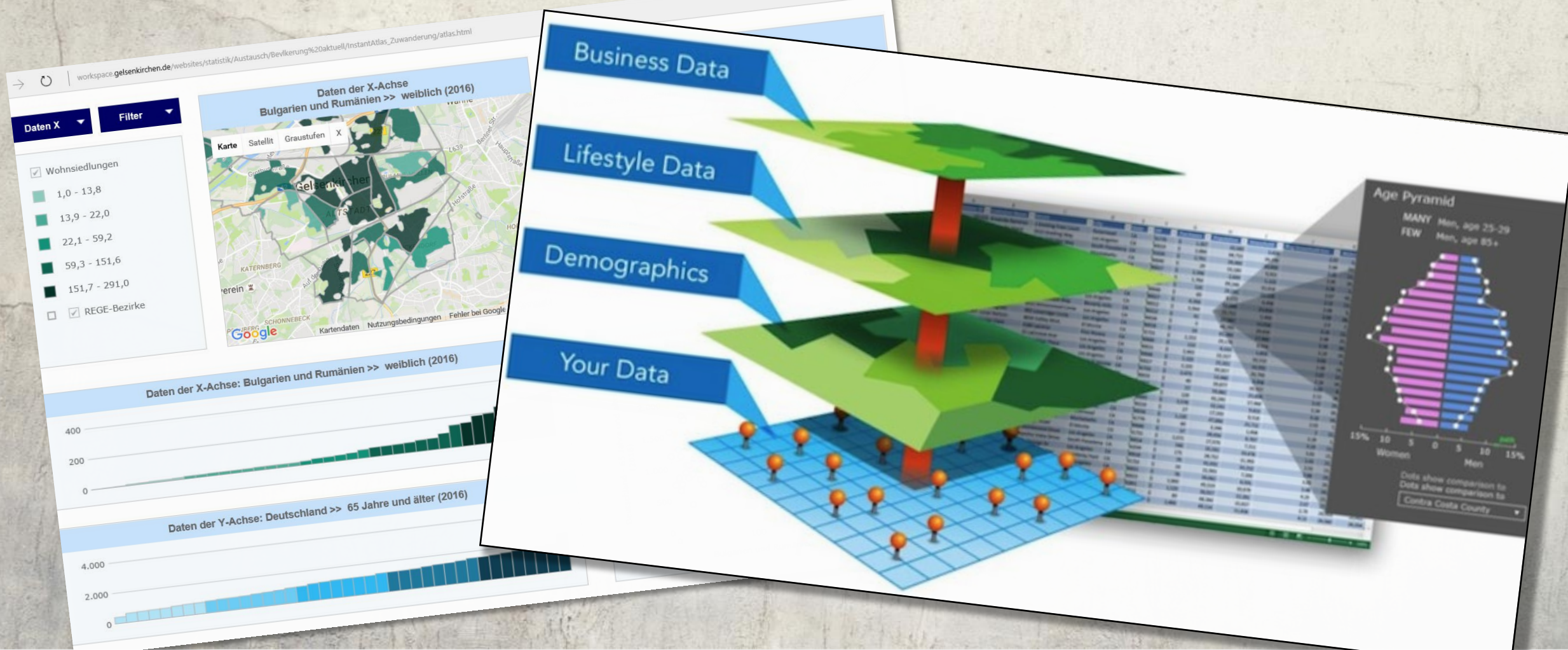
- There is support from the Ministry of Economic Affairs
- Model for e-government and digital urban development
- Other cities are...
Aachen, Paderborn, Soest, Wuppertal

Projects already implemented (selection)

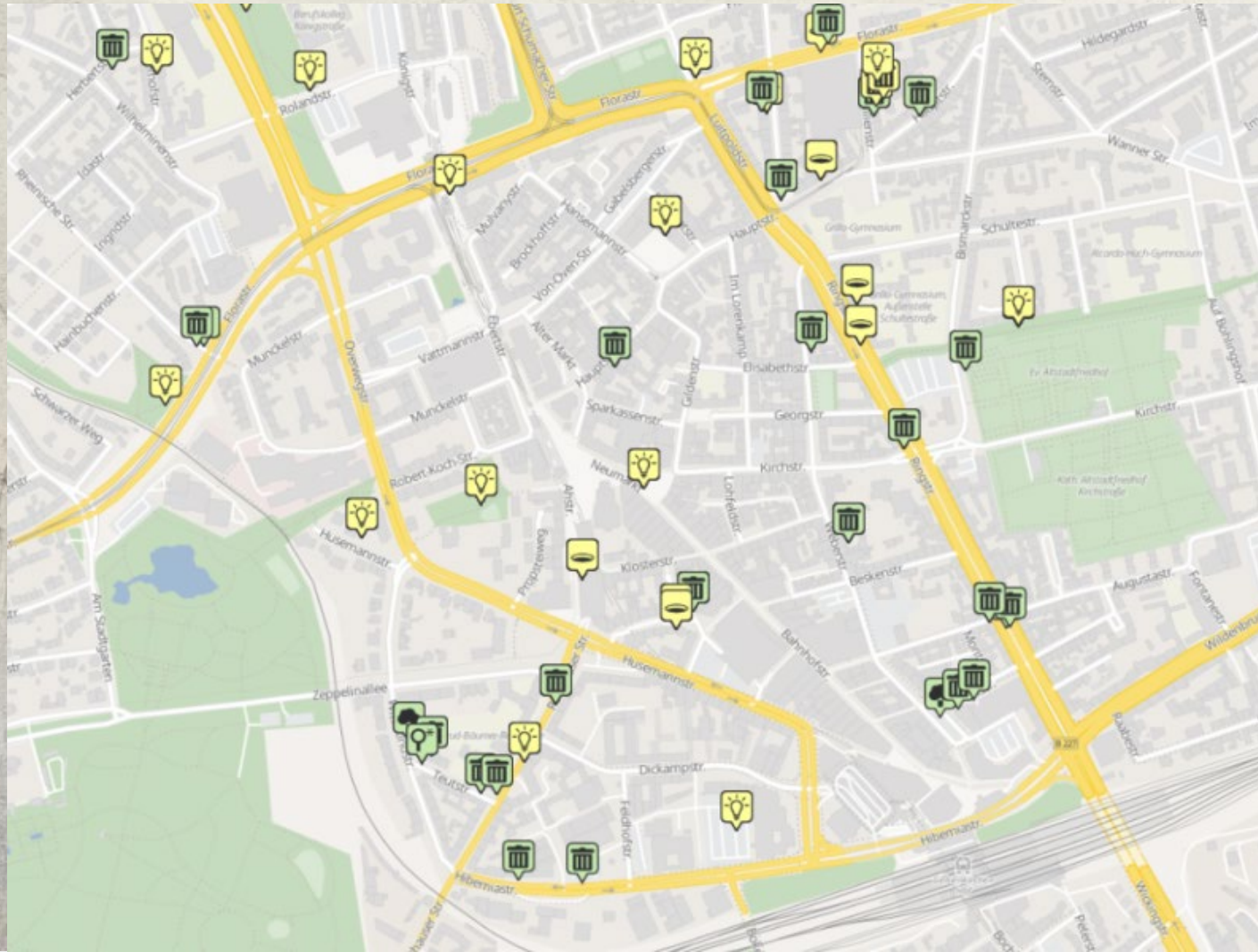
Free (*freies*) public Wifi in the Connected City with GELSEN-NET hotspots



Good data for good decisions, with Interactive Mapping and Reporting Tools



Problem-reporting app „GE-Meldet“



Straßenbeleuchtung: Straßenlaterne am Bürgersteig ..



Straßenbeleuchtung

Anfrage

Straßenlaterne am Bürgersteig angefahren. Mast steht schief.
(Adresssuche nach: Husemannstr.104 , Gelsenkirchen)

Typ

Straßenbeleuchtung

Status

In Bearbeitung

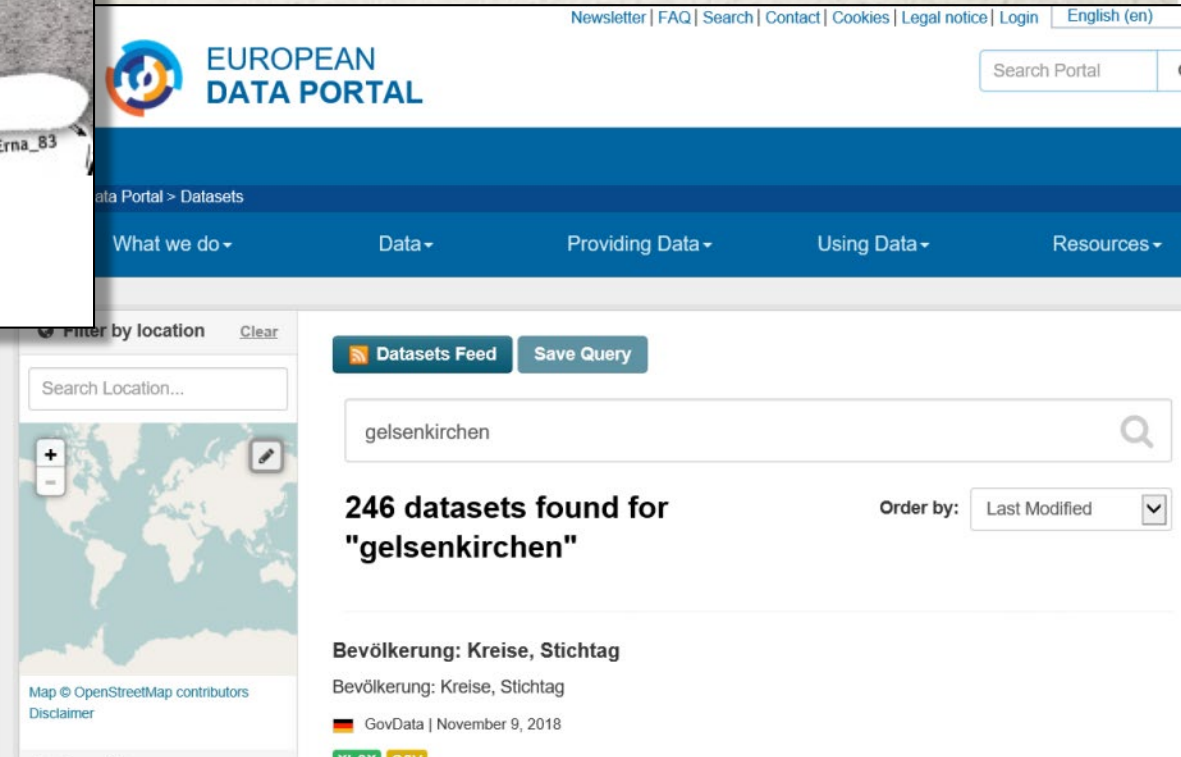
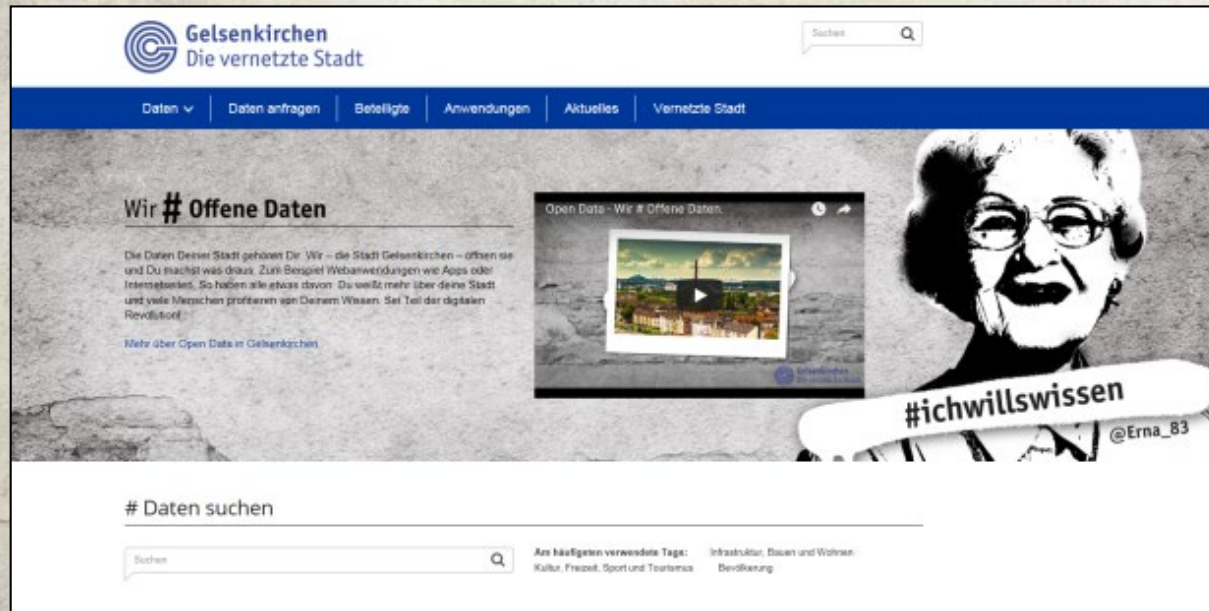
Datum

12.04.2016

Adresse

Husemannstraße 104, 45879 Gelsenkirchen, Deutschland

opendata.gelsenkirchen.de



e-Government



- Online permits for residential on-street parking
- Business/Trade register
- Civil status documents
- i-KfZ for individual license plates
- Lost items online
- City Library and official records
- Public procurement (*E-Vergabe*)
- Secure communications
- Digital file management (e.g. human resources and building regulations)
- Online forms and applications

...

E-Government – Citizen ID



Bürger-ID (citizen identification) via Smartphone

- eIDAS – compliant
- Developing with local University of Applied Sciences Westfälische Hochschule and Start-up Xing-Sys
- Flawless Communication with regional Servicekonto.NRW

#Open Innovation lab

ARENA PARK

(in planning)

#open Innovation lab ARENA PARK



Lighting Solutions

- Many kilometres footpaths and bike paths, especially used at big events in the VELTINS-Arena
- Over 100 events a year



Parking @ GELSENWASSER-HQ

- Parking
- Lighting
- Security
- Control



Crowd Management

- More than 3 million visitors a year in the VELTINS-Arena
- Guidance / surveillance of visitors in the ARENA PARK and the VELTINS-Arena



Traffic Control

- Greater area: situational inflow and outflow of individual traffic at major events
- Intelligent parking guidance and management system



Autonomous Driving

- Small busses for disabled people
- Round circle: stops of public traffic and sites
- Connection from bus stop to the local rehabilitation clinic



Health Care

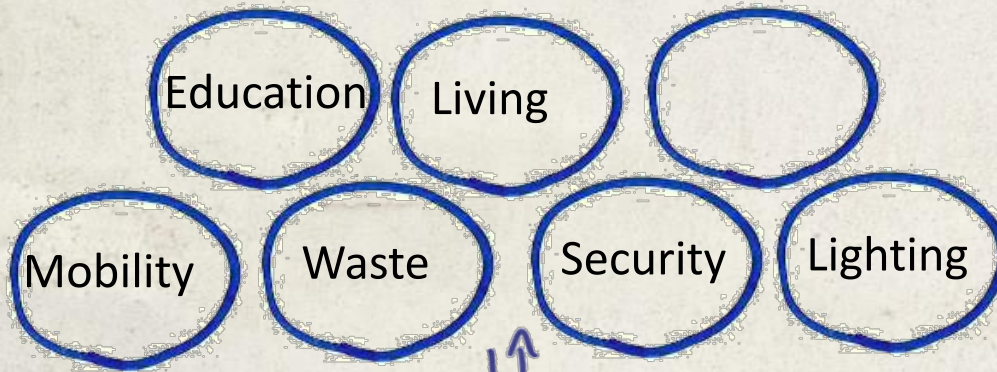
- Cooperation with **medicos.AufSchalke** as a unique interdisciplinary competence center for health (12.000 m²) in the Arena Park



Service Plattform

(Proof of Concept)

Applications



Big Data



smart connected Gelsenkirchen Smart City Big Data

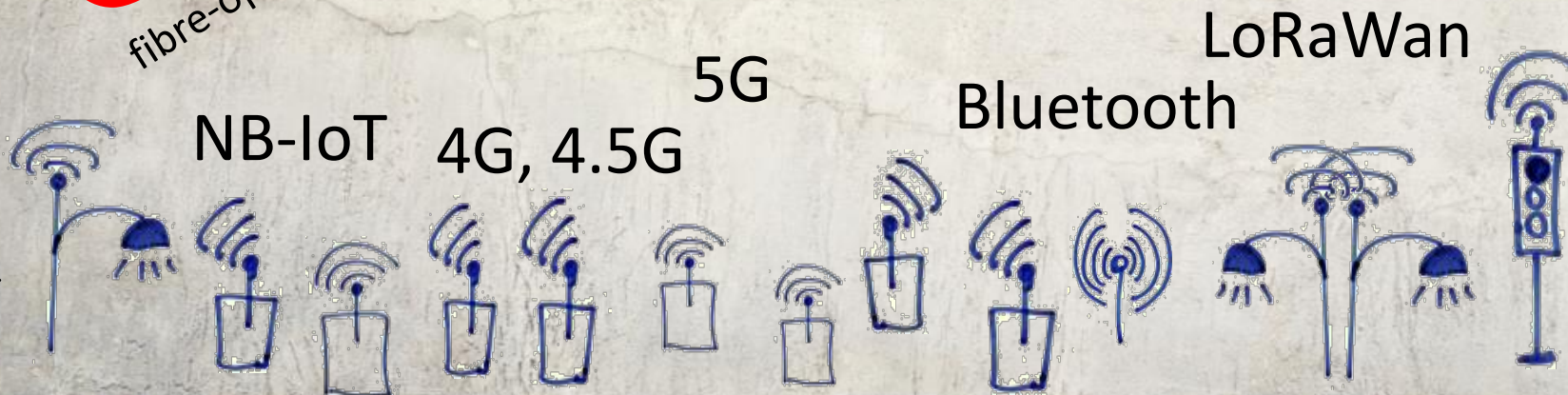
collecting computing correlating analysing



municipal data

Inhabitants (aggregated)
buildings, geodata ...

Infrastruktur



Challenges

- Development of an open and multistandard Service Platform (private GelsenCloud) as the central BigData service for Gelsenkirchen
- Implementation of data sources and services
- Processing of comprehensive sensor data
- Interconnection of proprietary IT solutions
- Ingestion of various data types
- European GDPR: anonymization of collected data





**Thanks,
and see you in Gelsenkirchen ;)**