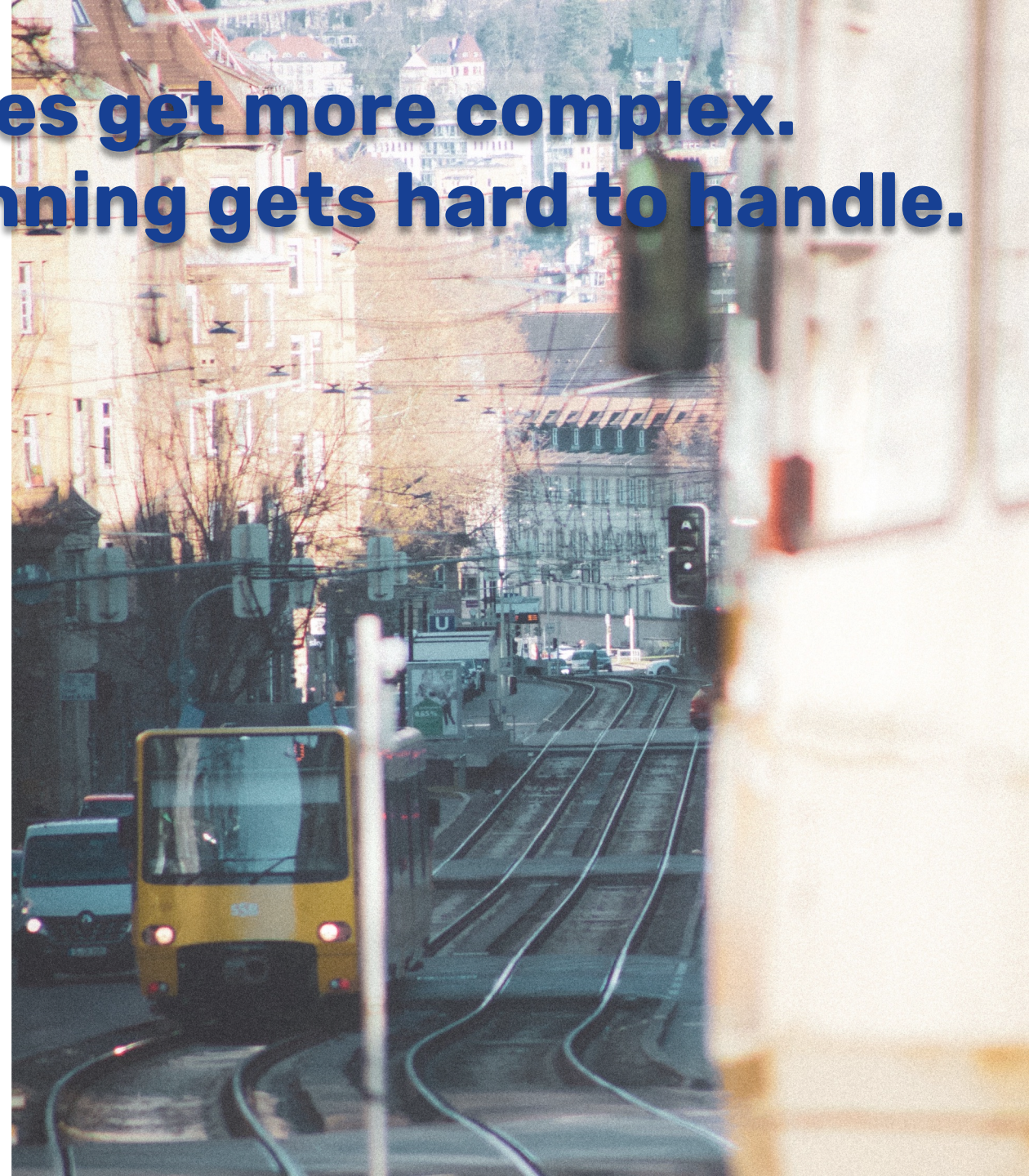# Open Source Data Platform

For sustainable cities and regions

Cities get bigger. Processes get more complex. Urban management & planning gets hard to handle.

From climate to demographic change: **Municipalities & municipal companies** are key players when it comes to make **cities & regions sustainable & resilient** in terms of the common good.

A huge chance for overarching, long-term decisions & smart process management: **the strategic usage of urban data!**

Data Competence for Cities & Regions

Pleased to meet you! We're DKSR.

Empower. Apply. Plan ahead.

With a unique combination of expertise, technology and services, the Data Competence Center Cities and Regions (DKSR) enables cities and municipal enterprises to meet current challenges in a sustainable manner by using urban data:
For the design of municipalities in which citizens live well and safely, now and in
the future.

Founded: 2021
Head Office: Berlin
Employees: 20
Legal form: GmbH

Fraunhofer

axxessio
we make projects happen. all the way.

[ui!]
the urban institute®

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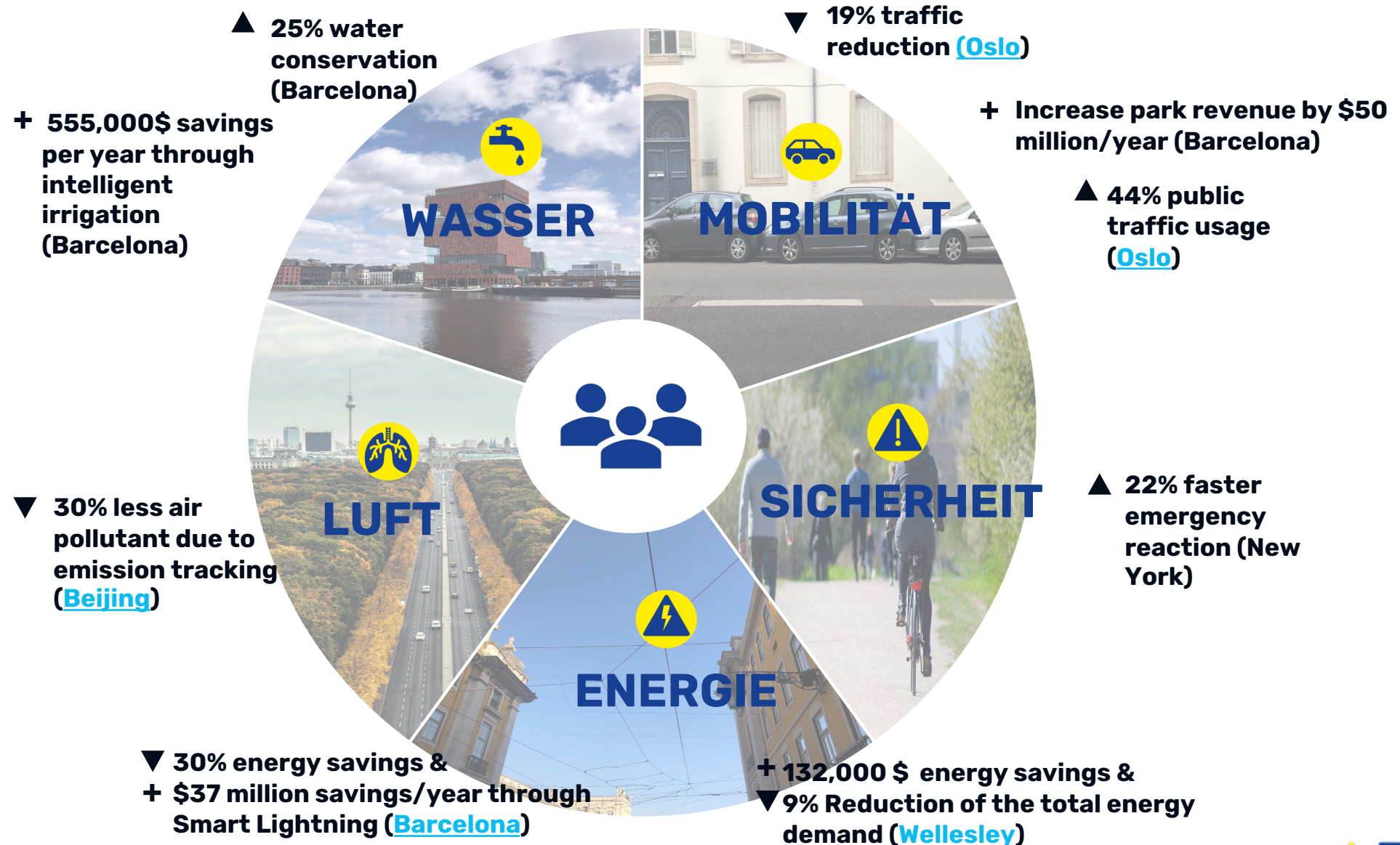Data Competence for Cities & Regions
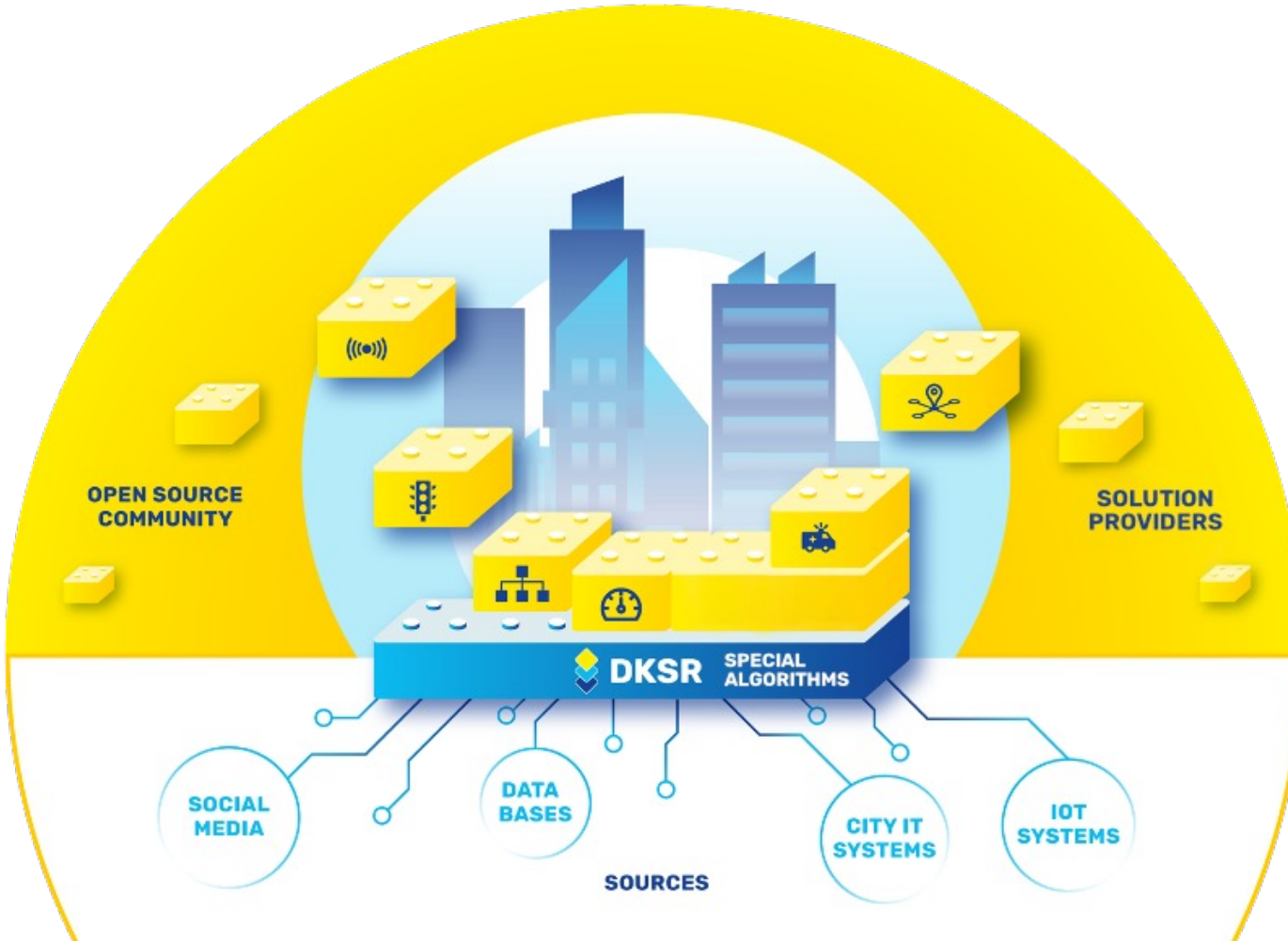
DKSR

Data for sustainable cities & regions

- **Measuring progress** towards municipal (climate) goals
- **Optimization of urban processes** through networked control and response (route improvement of public vehicles, resource-saving irrigation, etc.)
- **Application of AI and analytics** to identify courses of action
- **Long-term decisions based on facts** – not gut feeling

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Impact of Data Usage in All Urban Areas

▲ 25% water conservation (Barcelona)

+ 555,000$ savings per year through intelligent irrigation (Barcelona)

▼ 19% traffic reduction (Oslo)

+ Increase park revenue by $50 million/year (Barcelona)

▲ 44% public traffic usage (Oslo)

WASSER

MOBILITÄT

LUFT

SICHERHEIT

ENERGIE

▼ 30% less air pollutant due to emission tracking (Beijing)

▲ 22% faster emergency reaction (New York)

▼ 30% energy savings &
+ $37 million savings/year through Smart Lightning (Barcelona)

+ 132,000 $ energy savings &
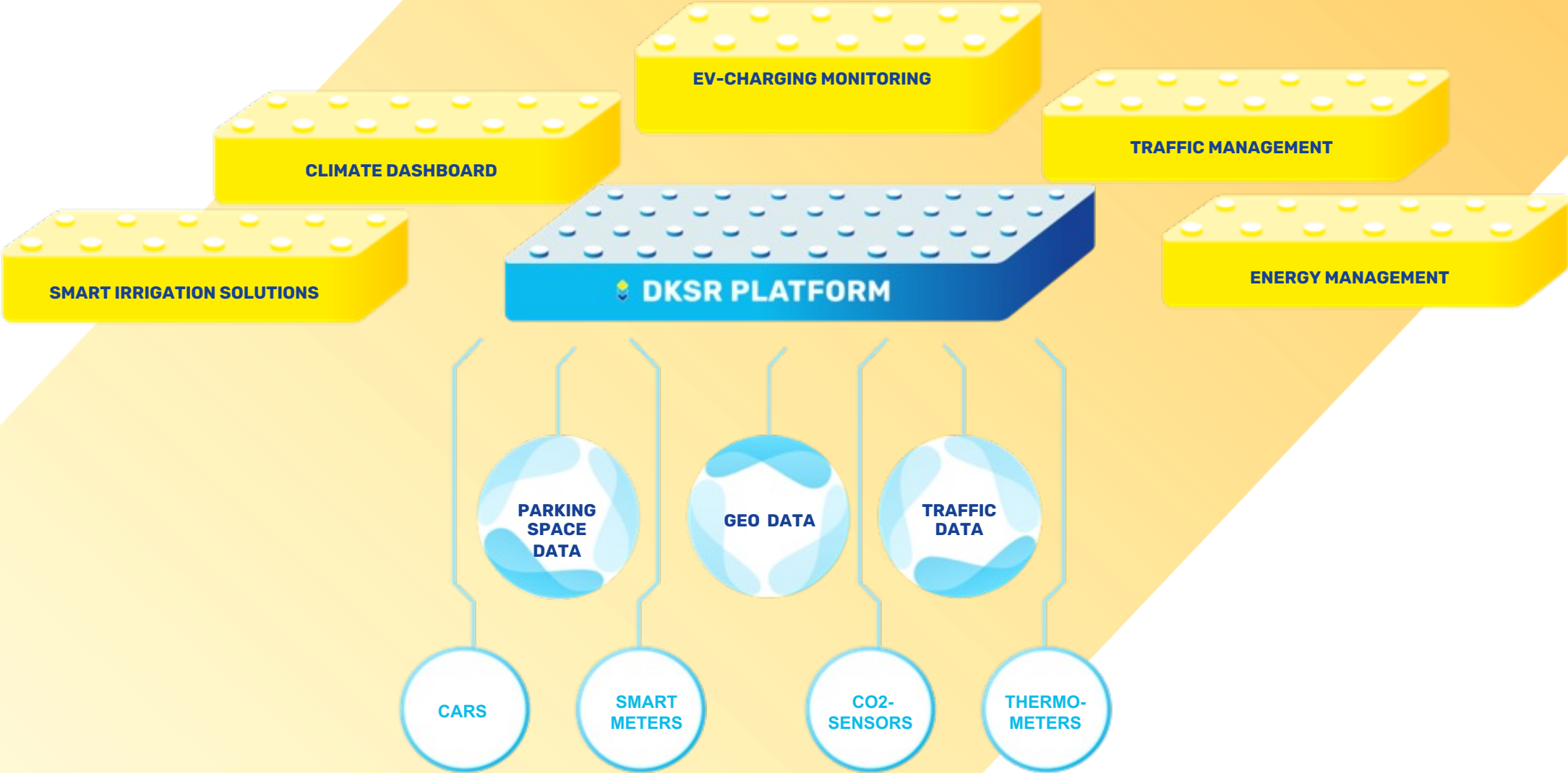▼ 9% Reduction of the total energy demand (Wellesley)

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Free data from silos – use it efficiently

Urban data platforms **network, harmonize and process data** from all connected urban processes. This way, data is...

- ...quickly and efficiently retrievable.
- ...ready to be shared confidently and securely.
- ...made structured and usable.

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One Open Platform – many ways of application

EV-CHARGING MONITORING

CLIMATE DASHBOARD

TRAFFIC MANAGEMENT

SMART IRRIGATION SOLUTIONS

DKSR PLATFORM

ENERGY MANAGEMENT

PARKING SPACE DATA

GEO DATA

TRAFFIC DATA

CARS

SMART METERS

CO2-SENSORS

THERMO-METERS

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The benefits of Open Source

Transparent provision of the open source code for the optimization of the solution

Compatibility with other platforms via common standards

Maximum sovereighty and flexibility for municipalities

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DATA:SPACE:FREIBURG
Urban Digital Twin for Live Traffic Monitoring
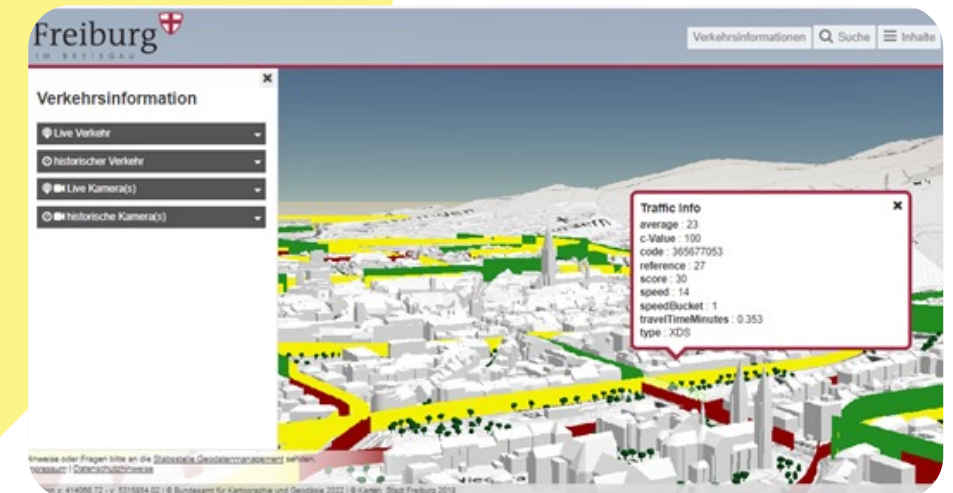
Project Goals and Framework

- Make data from a wide variety of sources available in a bundled form in order to evaluate them and enable data-based applications
- Bring together knowhow from different sectors e.g. for simulations
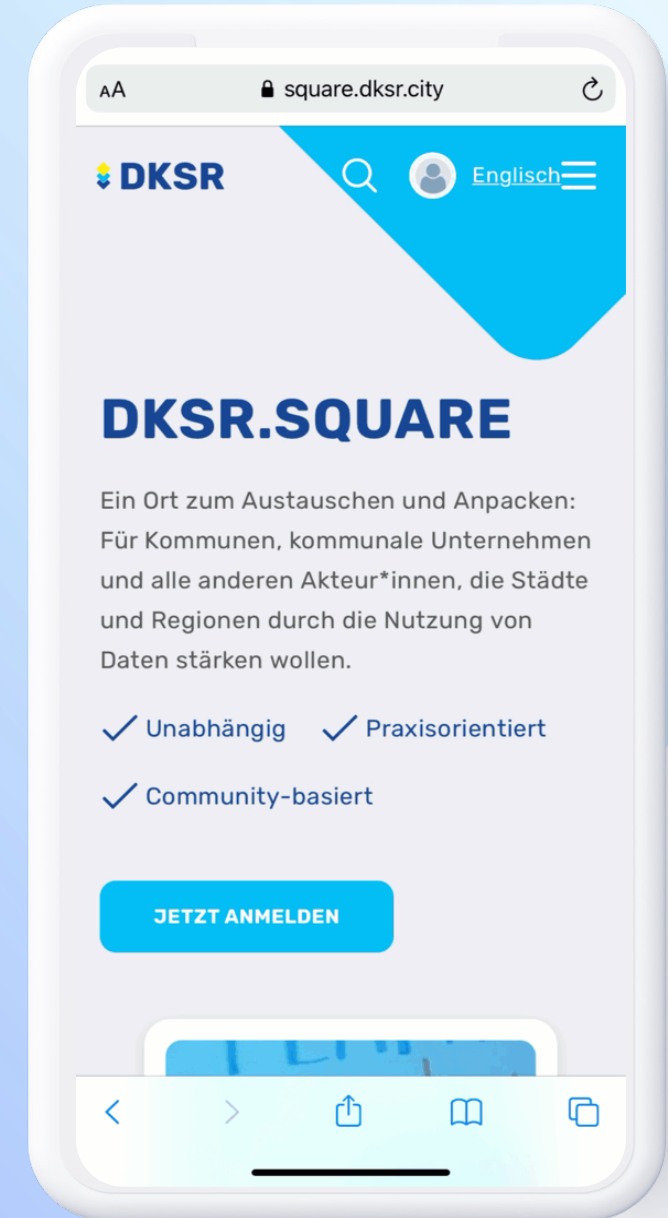- Create basis for integrated urban development.

Our Services

- Developing a prototype for the city of Freiburg to improve mobility control and traffic safety
- Merging and evaluating various traffic data, enabling conclusions to be drawn and measures to be taken for a people-friendly traffic environment

#apply

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DKSR.square:
Webportal with added value

- Data-based **implementations and products** tailored to municipal challenges

- **Exchange and networking** opportunities
  - **Closed forums** for core members

- Practical **know-how** with our knowledge bundles

- Full access to **community implementations** and the **Community Github** for core members

Get on board – and get code!

DKSR.SQUARE

Ein Ort zum Austauschen und Anpacken: Für Kommunen, kommunale Unternehmen und alle anderen Akteur*innen, die Städte und Regionen durch die Nutzung von Daten stärken wollen.

✓ Unabhängig   ✓ Praxisorientiert

✓ Community-basiert

JETZT ANMELDEN

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Questions?

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