



Enablement Platform for data-driven applications



CIVORA

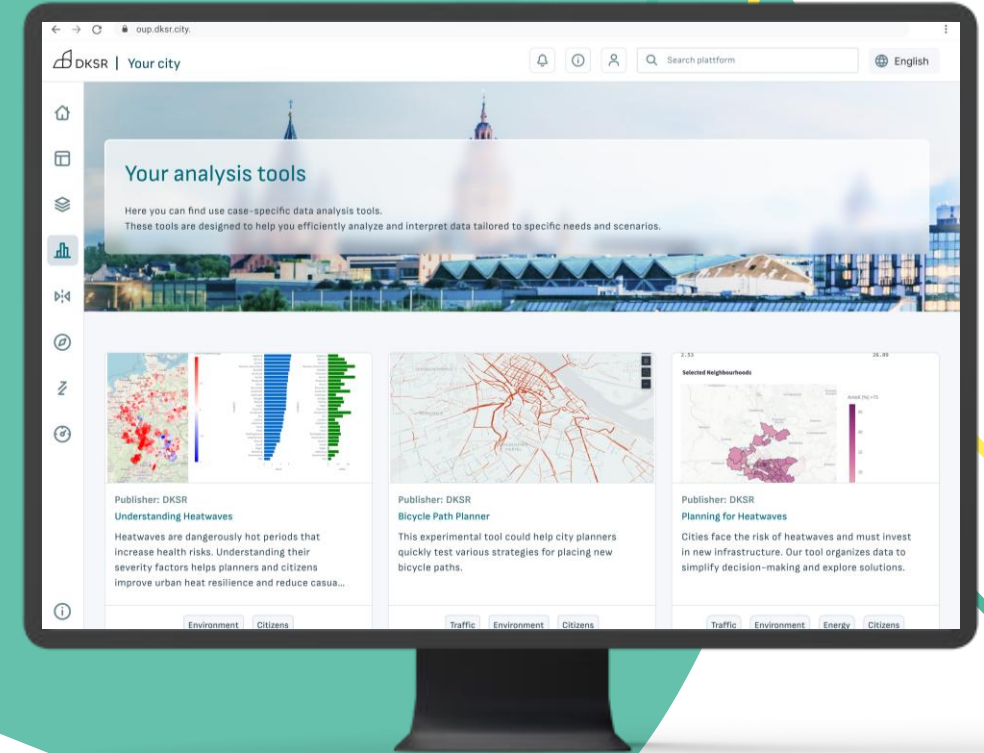
Digital backbone for essential public services

Data hub for the public sector

With CIVORA, we are providing a data hub based on the latest open-source technology that addresses the specific challenges of cities and regions.

A solution tailored for Smart Cities

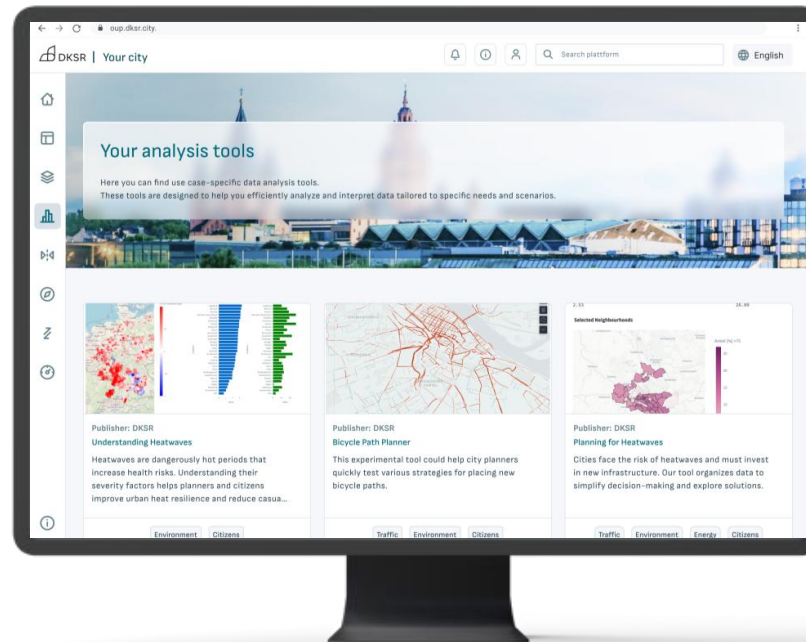
- CIVORA is a modular hub for sharing and working with large amounts of heterogeneous data in a distributed ecosystem of different players.
- CIVORA integrates cutting-edge platform and analytics solutions as well as enabling 3rd party applications via standardized APIs.
- It enables legally compliant data governance – even of restrictive data – and at the same time provides the tools for analyzing and further processing the data.
- After three years of development, CIVORA was launched at the Smart Country Convention 2024 in Berlin and is currently in use with 18 cities and regions.



OPEN-SOURCE DATA HUB FOR CITIES

Digital backbone for public services

- 📍 Digital social monitor
- 📍 Digital reporting
- 📍 Accelerated planning
- 📍 Impact-oriented control
- 📍 Data-based planning & resource allocation
- 📍 ...



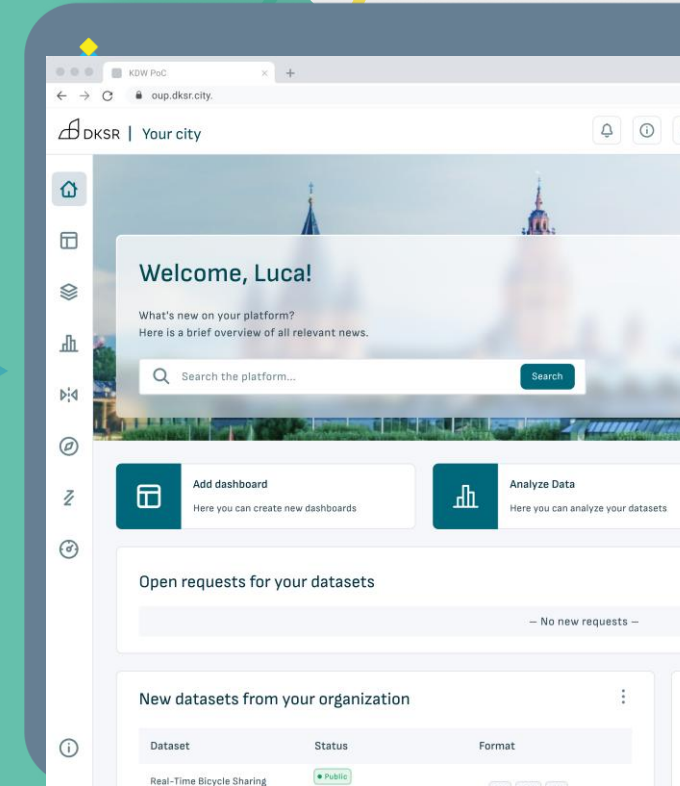
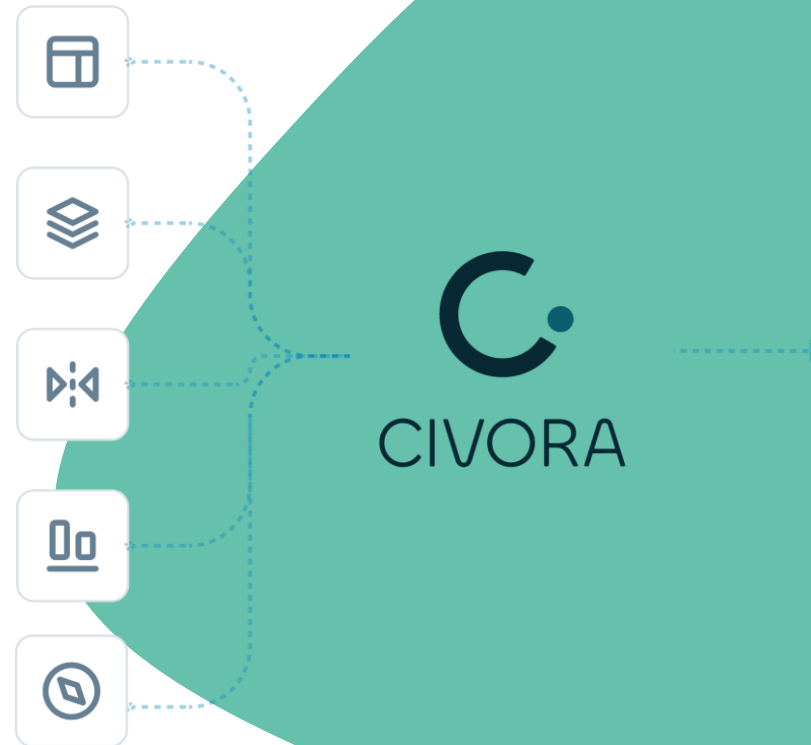
- 📍 City Energy Management
- 📍 Traffic management
- 📍 Parking space management
- 📍 Digital water infrastructure
- 📍 Control of charging infrastructure
- 📍 Municipal heat planning
- 📍 Smart lighting...

Enablement Platform for data-driven applications



Everything in one place: CIVORA DATA HUB

- Data Space
- Data Catalogue
- Digital City Twin
- Dashboards
- Analytics Engine
- Real-time data processing



Managed Open
Source Service



Compliant with
Open Standards



Community
Driven

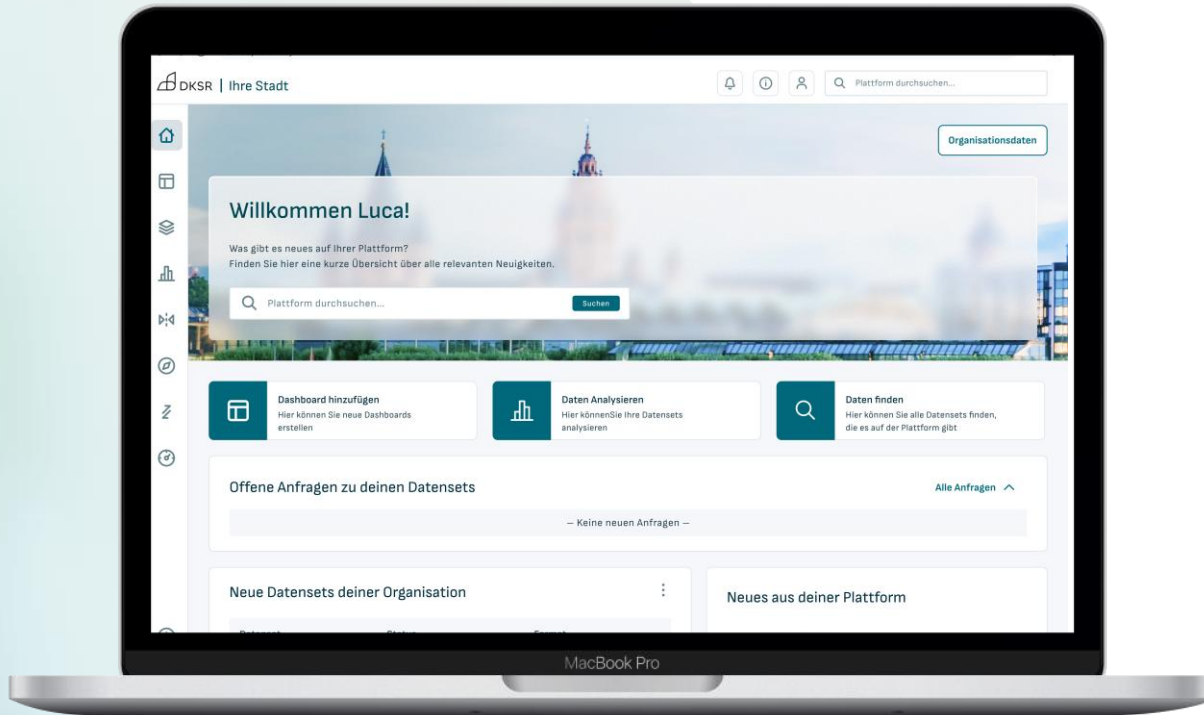
30+

Cities and Regions
in GER / EU / USA



Your customized landing page

The perfect presentation for internal and external audiences



- Internal: Provides you with an overview of current activities in your data ecosystem
- External: Can be used as a public website for communication with citizens
- Customizable design options (color, logo)



Data catalog based on piveau*



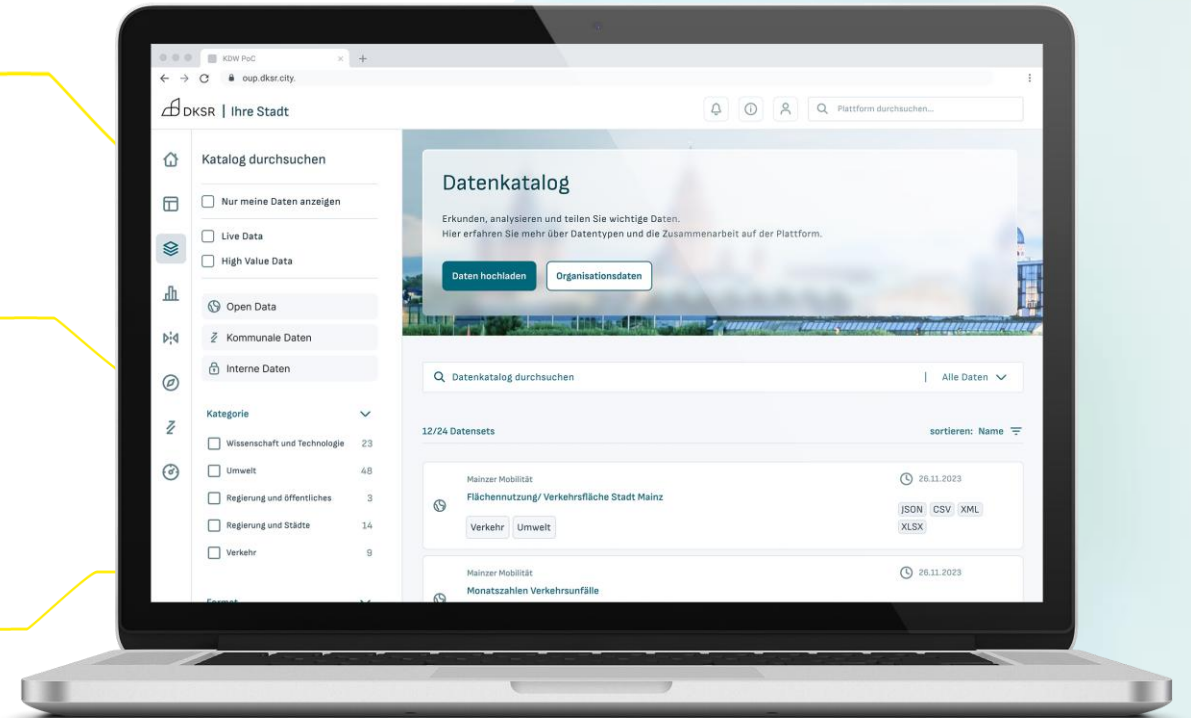
Provide data
(Harvester & Upload)



Manage data
(Indexing & search)



Making data usable
(Downloads & Endpoints)



*[piveau](#) is an open-source data catalogue & data governance technology developed by German Fraunhofer Society.

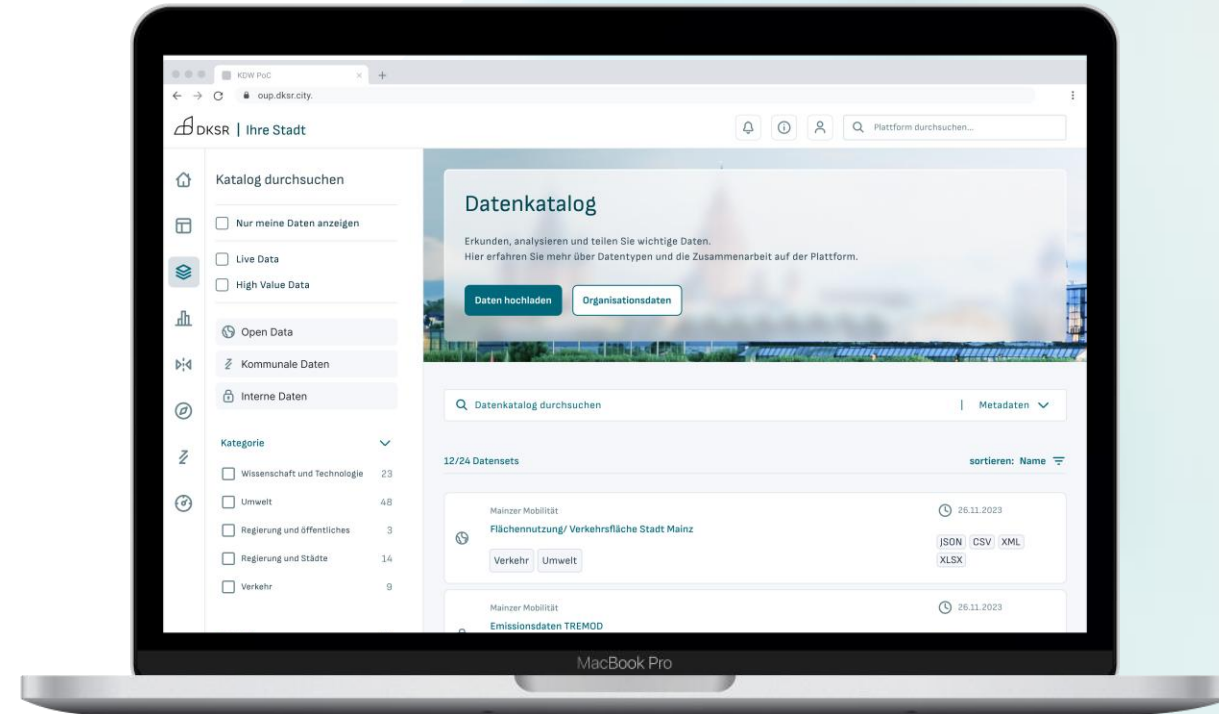


(Open) Data Catalog

Transparency across all available data

- Differentiated role and rights system supports your data governance
- Full overview of all (meta) data at all times
- Enables the management of internal and restrictive data, as well as the publication of open data
- (Meta) data can be managed in a user-friendly way, even in accordance with DCAT-AP and DCAT-US
- Static and real-time data can be imported and stored from various sources.

piveau



Dashboards for numerical analysis



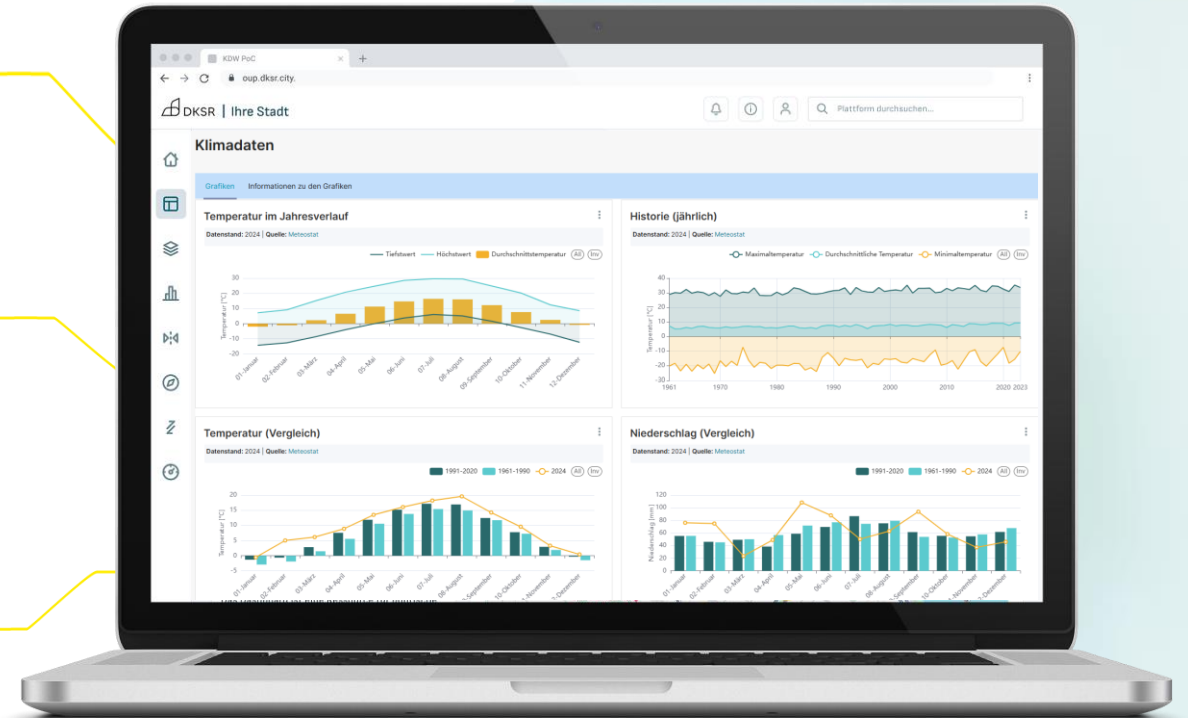
City Intelligence
(Visualization of data for easy understanding)



Automated reports
(When thresholds are reached / Periodically)

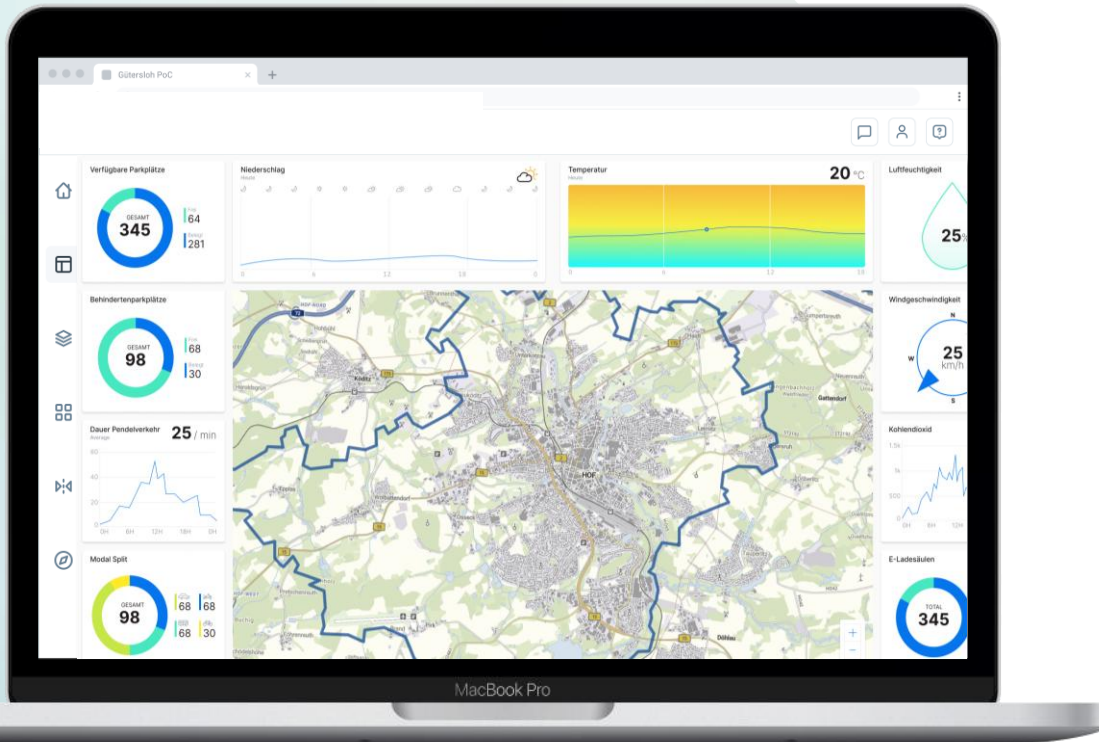


Prognosis & Trends
(Evaluate historical data to create forecasts)



Dashboards

Interactive visualizations of your data



- Comprehensive overview of city data from various areas – individually configurable
- Dashboards can be made publicly available to inform citizens
- Real-time monitoring of trends and anomalies (e.g., traffic, river levels) for rapid response
- Implementation with Grafana or Apache Superset

Digital Twins for spatial analyses



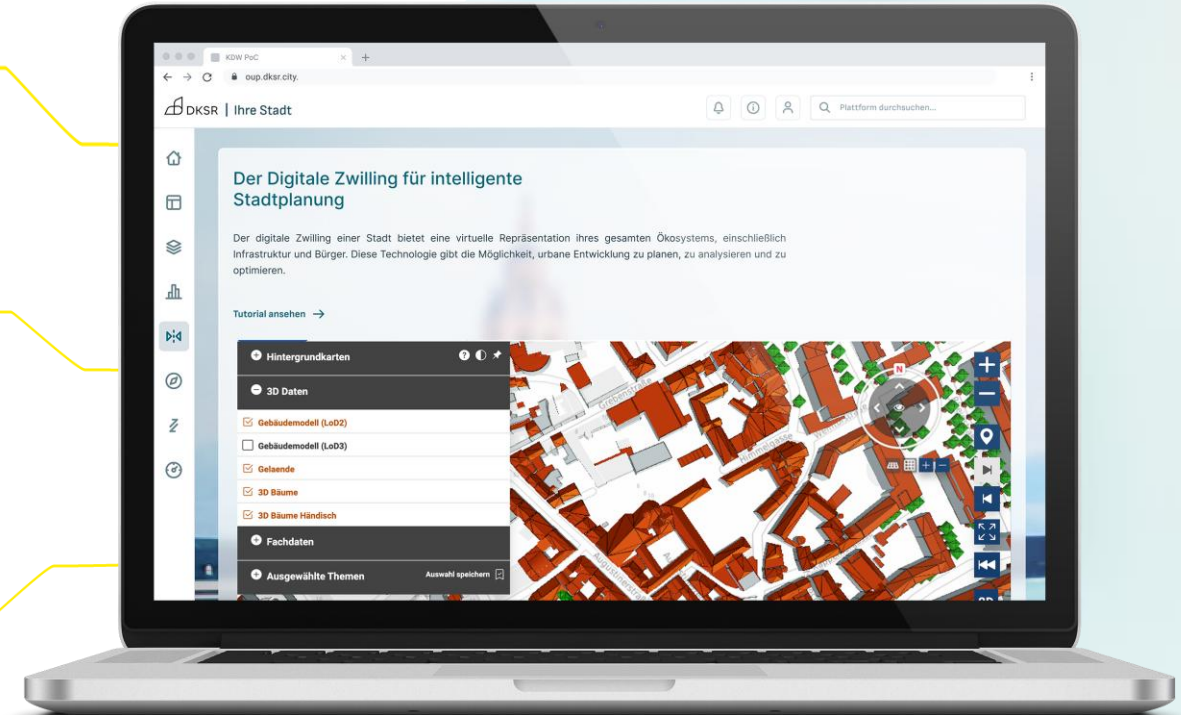
Spatial location
(Displaying data with spatial references)



Simulation
(Visualization of different scenarios)



Citizen Engagement
(Interaction on 3D city model or planned scenarios)



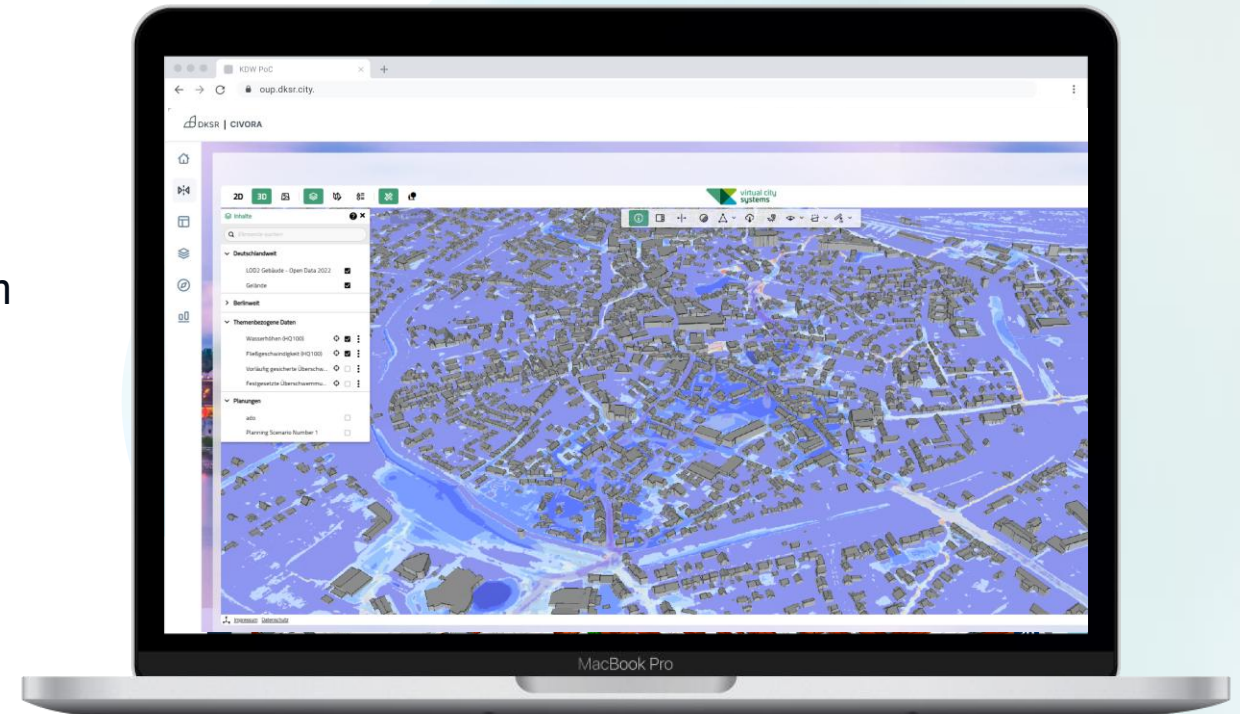
Digital twin and data catalog

Expand the options of your digital twin

- Integrate Geoportals and 3D models from various providers
- By linking to the data catalog, this enables, for example, an overview of metadata for the data used in the Digital Twin
- Access to the digital twin is integrated into CIVORA's role and rights management

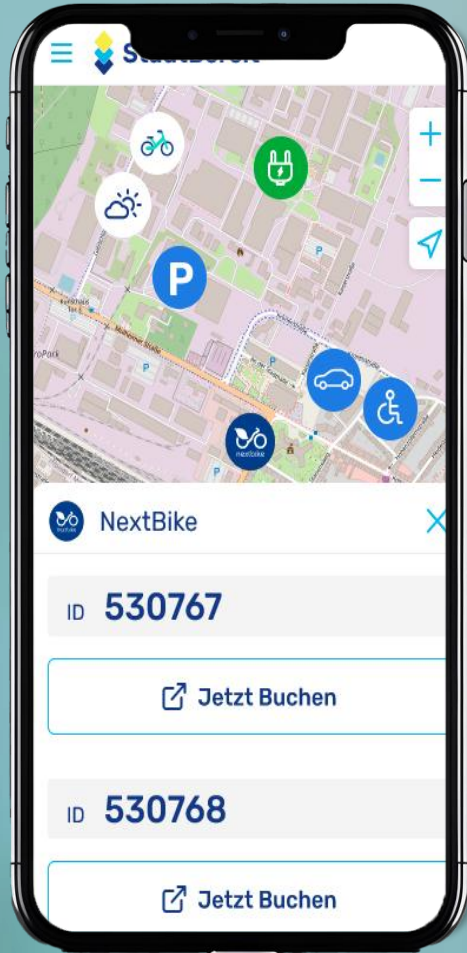


virtual city
systems



Real-time Upgrade of your Citizen App

Facilitate real-time data processing for citizen apps



Implemented basic functionalities

- GDPR-compliant location sharing
- High usability through customizable filters
- Re-direct to Google Maps, Apple Maps and other apps

Implemented real-time information

- Target & actual departure plan of public transport
- Location & charging status of sharing offers (bike, e-scooter, car sharing)
- Parking information (single space detection & car parks)
- Weather

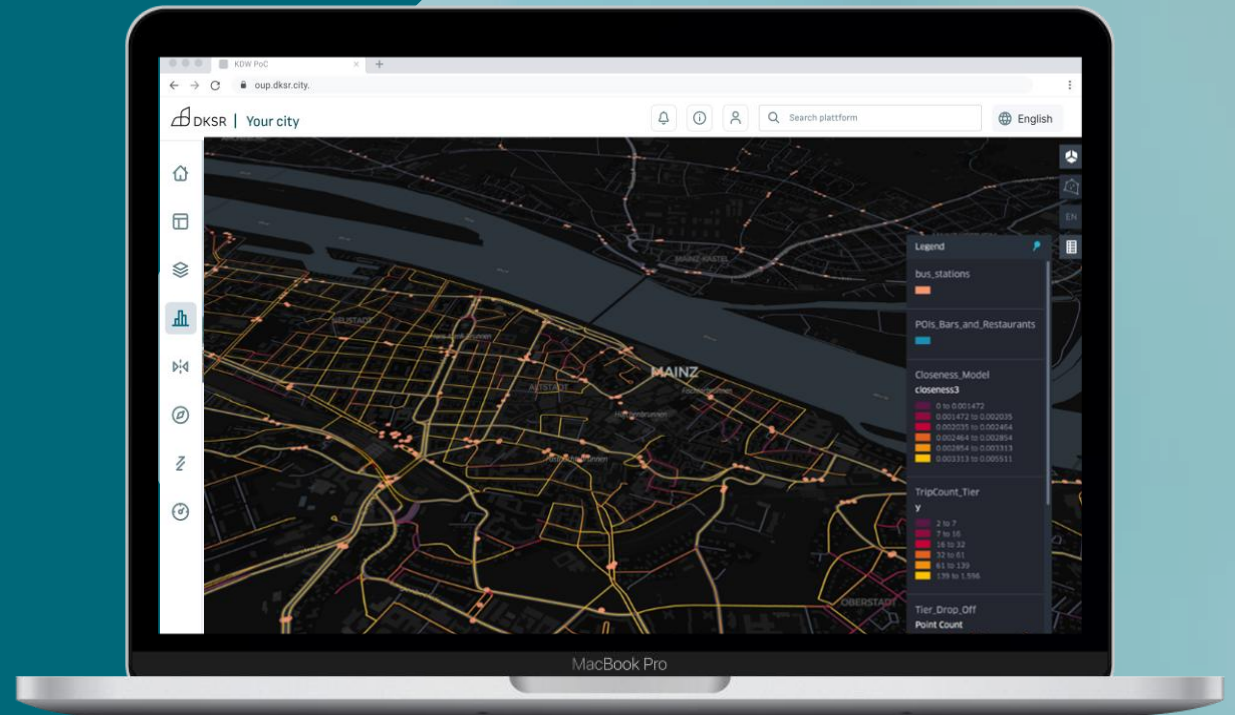
All available data sources can be added upon request.



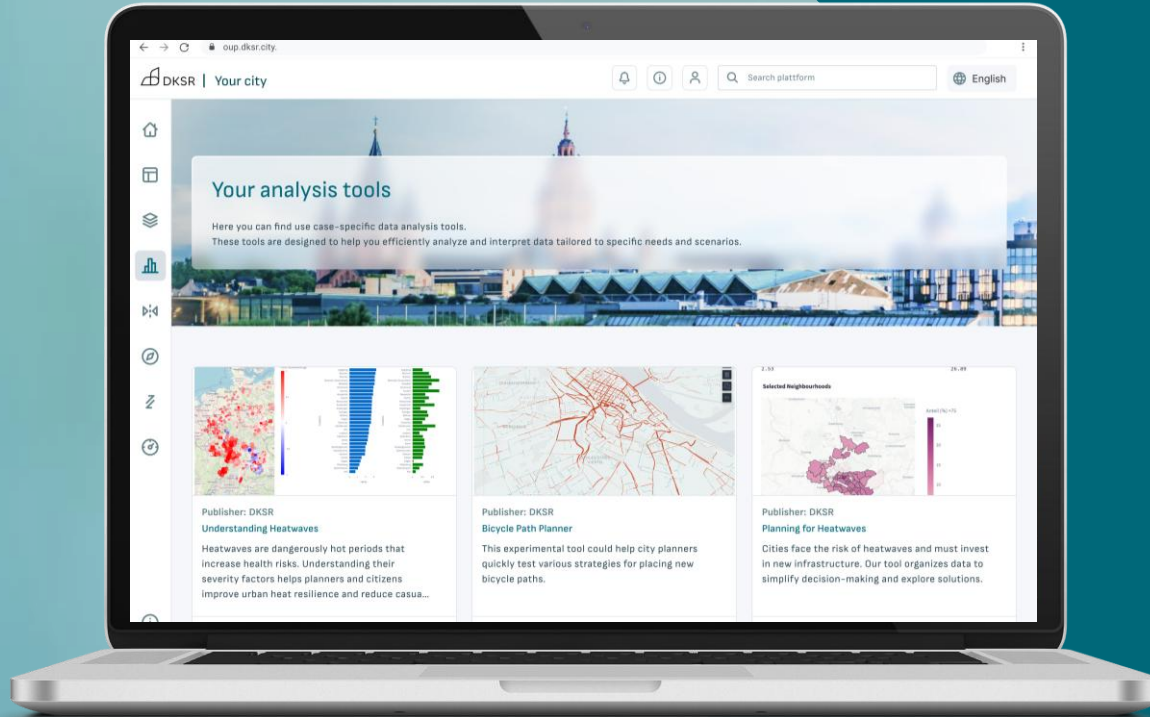
City Intelligence through distributed Data Processing

Providing sophisticated data analysis for a deep understanding of urban systems

- Leverages data for advanced analytics and modeling.
- 180+ connectors for real-time data harmonization.
- Integrated tools enable AI-based applications.
- Specialized software consumes data for various use cases.



Integrated analysis tools & smart city applications



- **Extensive data analytics**
Analytics stack for individual analyses
- **Smart City applications**
Integrated applications for specific domains
- **Ecosystem**
Expansion through specialized applications from our partners
- **Marketplace functionality under development**



CIVORA –Interface for data-based action



Data processing



Dashboard



Data Catalog



Digital Twin



Data Space

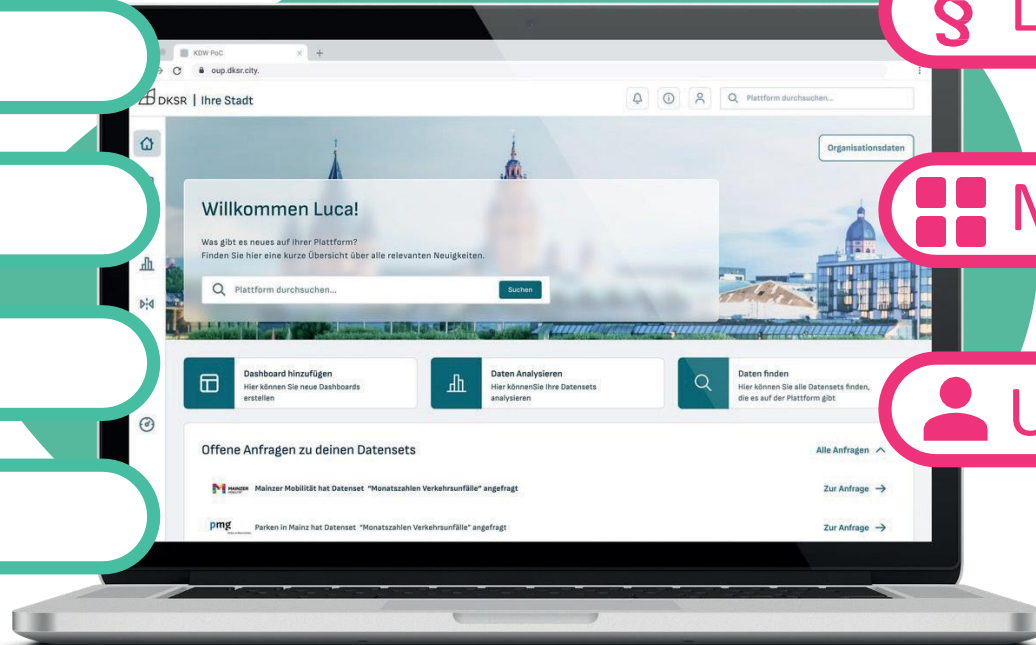
§ Legally compliant



Modular



User friendly



Your key benefits



Better decision
making

Compliance and risk
minimization

Increase in Efficiency

Better data quality

Reduction in
operating costs

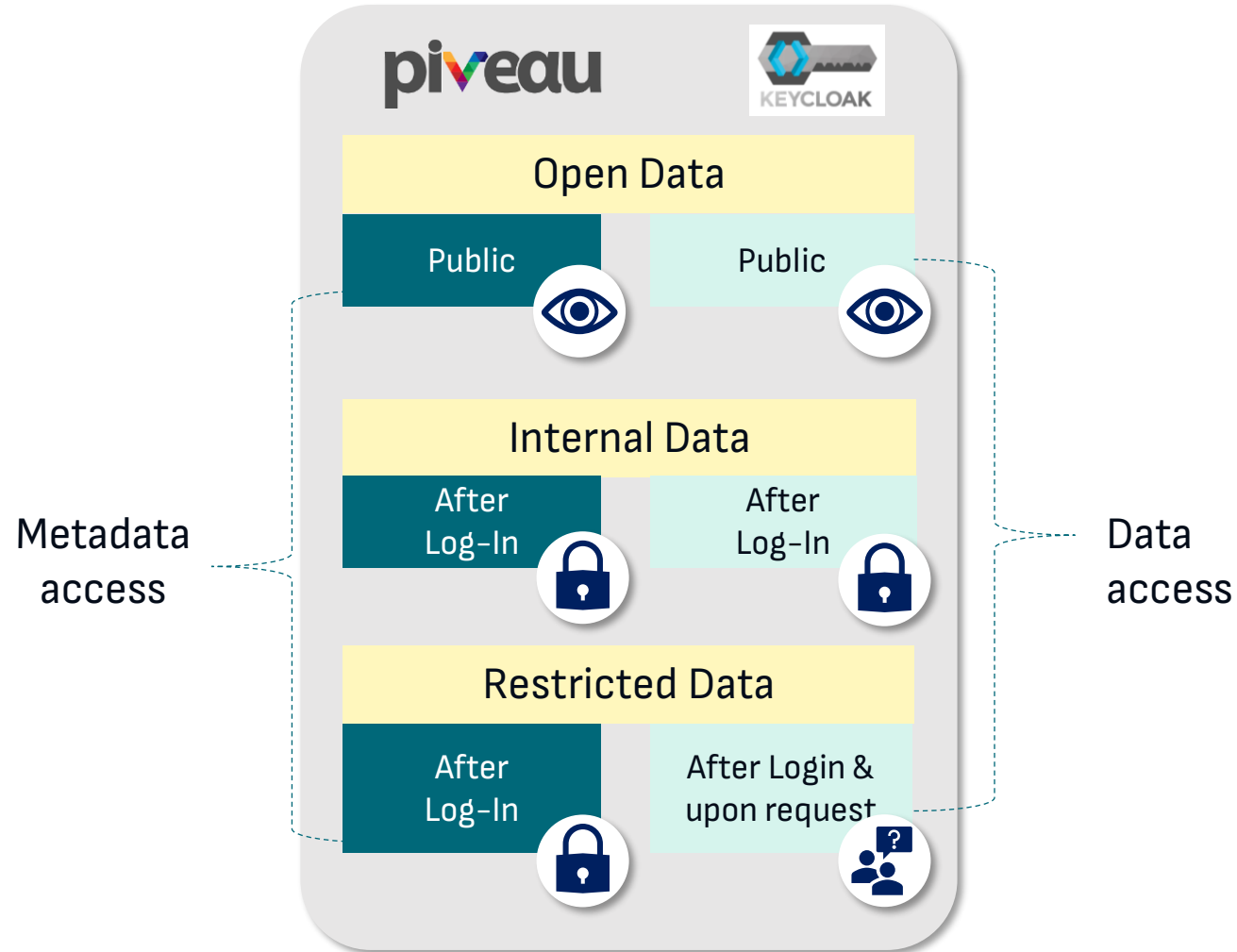
Increased trust and
transparency

Enables complex use
cases

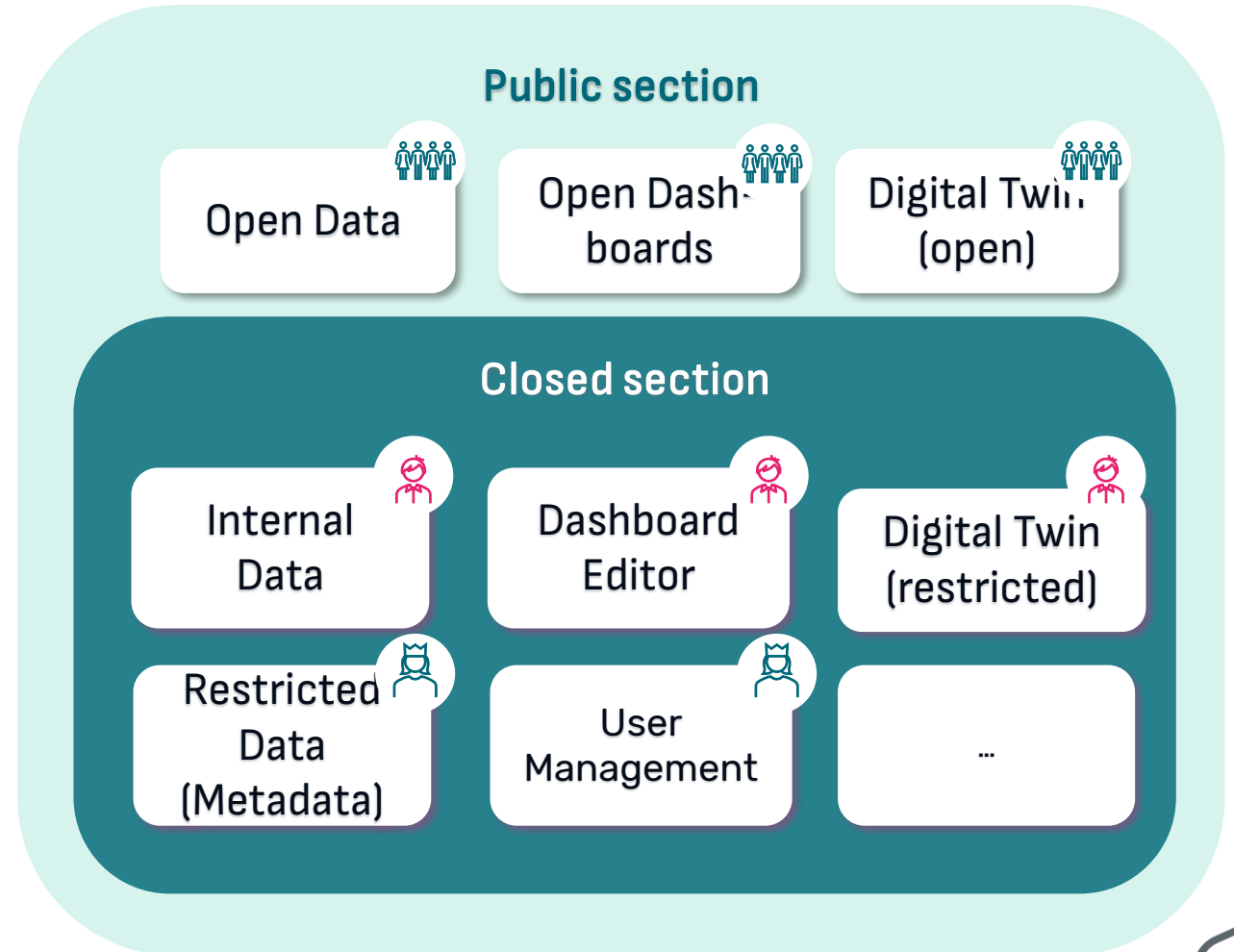
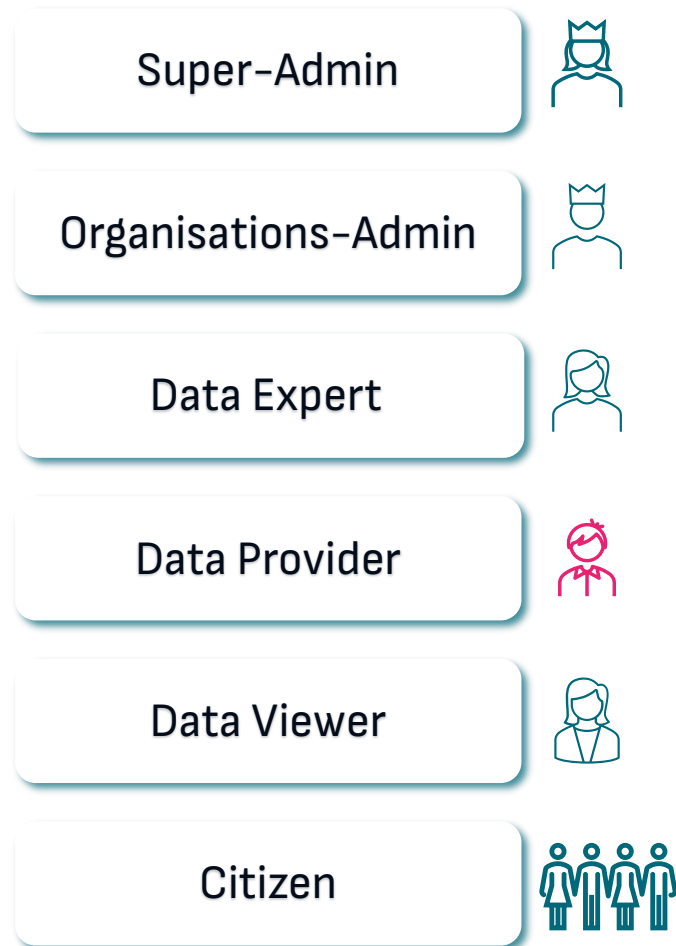
Better collaboration
between departments



Access levels for data-sets



Differentiated role and rights system



Enabling Smart Cities & Smart Regions with Data



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