

BeGeo 2024

LA CONNEXION A L'ETAT PUR
DE ULTIEME CONNECTIE

High Value Datasets
as contribution to GDDS

An Heirman & Mathieu Van Wambeke - GIM



begeo.be

Sponsored by



We are inspired by location...



An Heirman

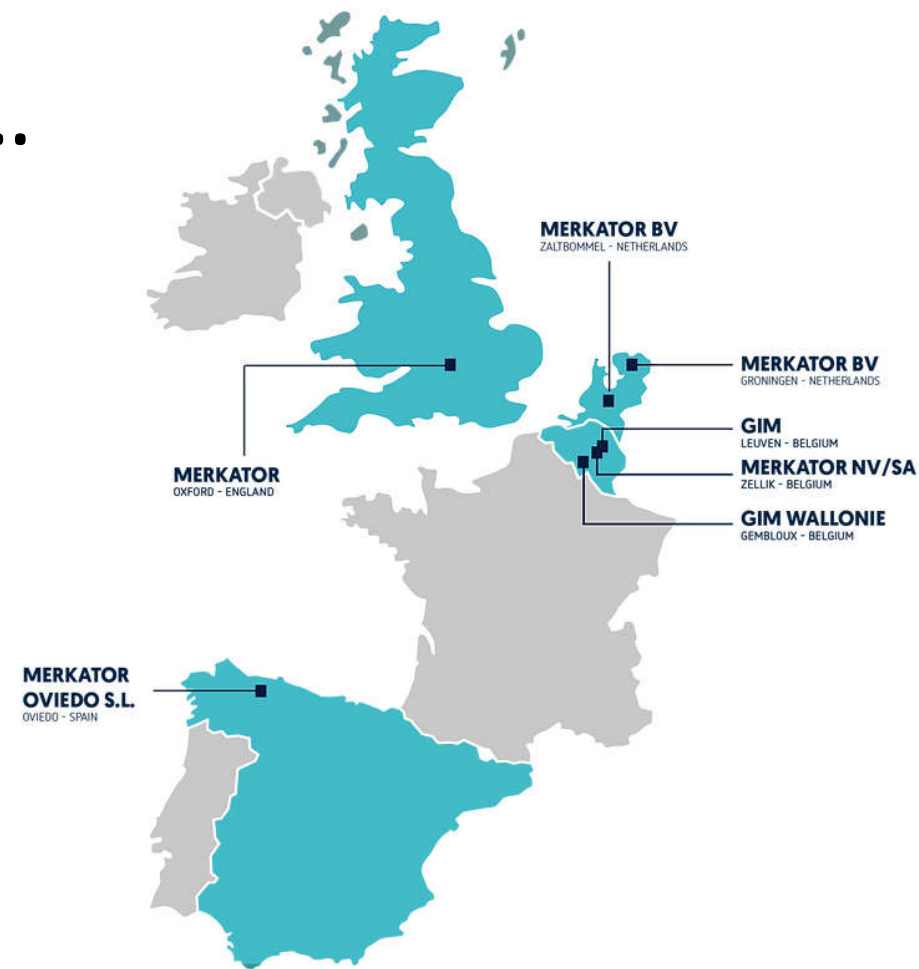


Mathieu Van Wambeke



www.gim.be www.merkator.be

Providers of geospatial data, services & products



BeGeo 2024
begeo.be

19/03/2024 - Brussels Expo

Context: European Data Strategy

European Strategy for Data

A common European data space, a single market for data



Busy public sector...

Public Sector
Information Directive
2003/98/EC

Accessible public sector
information can be reused

INSPIRE Directive
2007/2/EC

Publication Roadmap
Spatial data
Held by public sector
Technical specifications

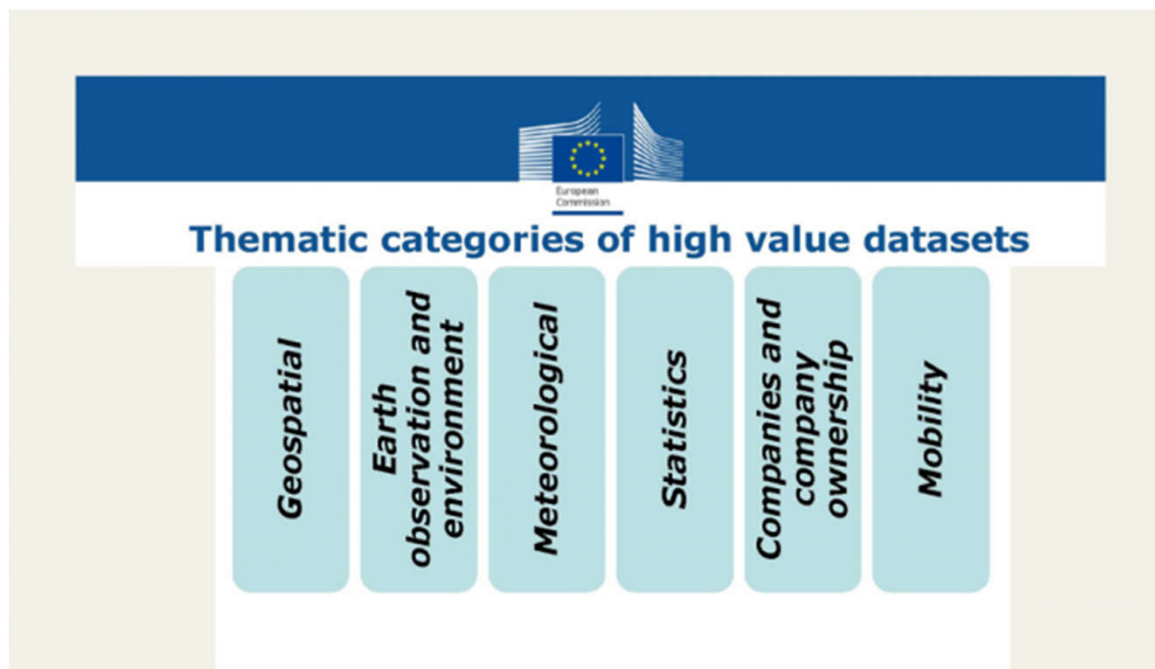
Open Data Directive & High Value Datasets

Directive 2019/1024 & Implementing Regulation 2023/138

- ✓ Free of charge
- ✓ Open License
- ✓ New data, spatial & non-spatial
- ✓ API services
- ✓ Online documentation
- ✓ Machine readable
- ✓ Previous versions
- ✓ Internationally recognized and publicly documented vocabularies

What data?

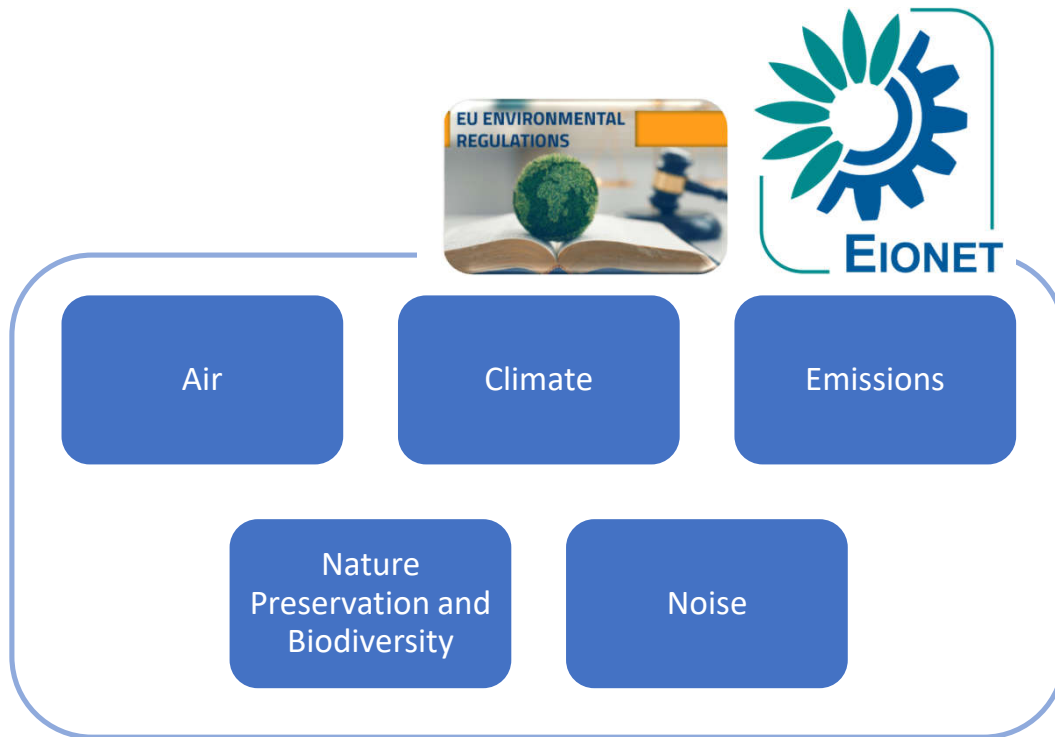
SPATIAL &
NON-SPATIAL



What Data?



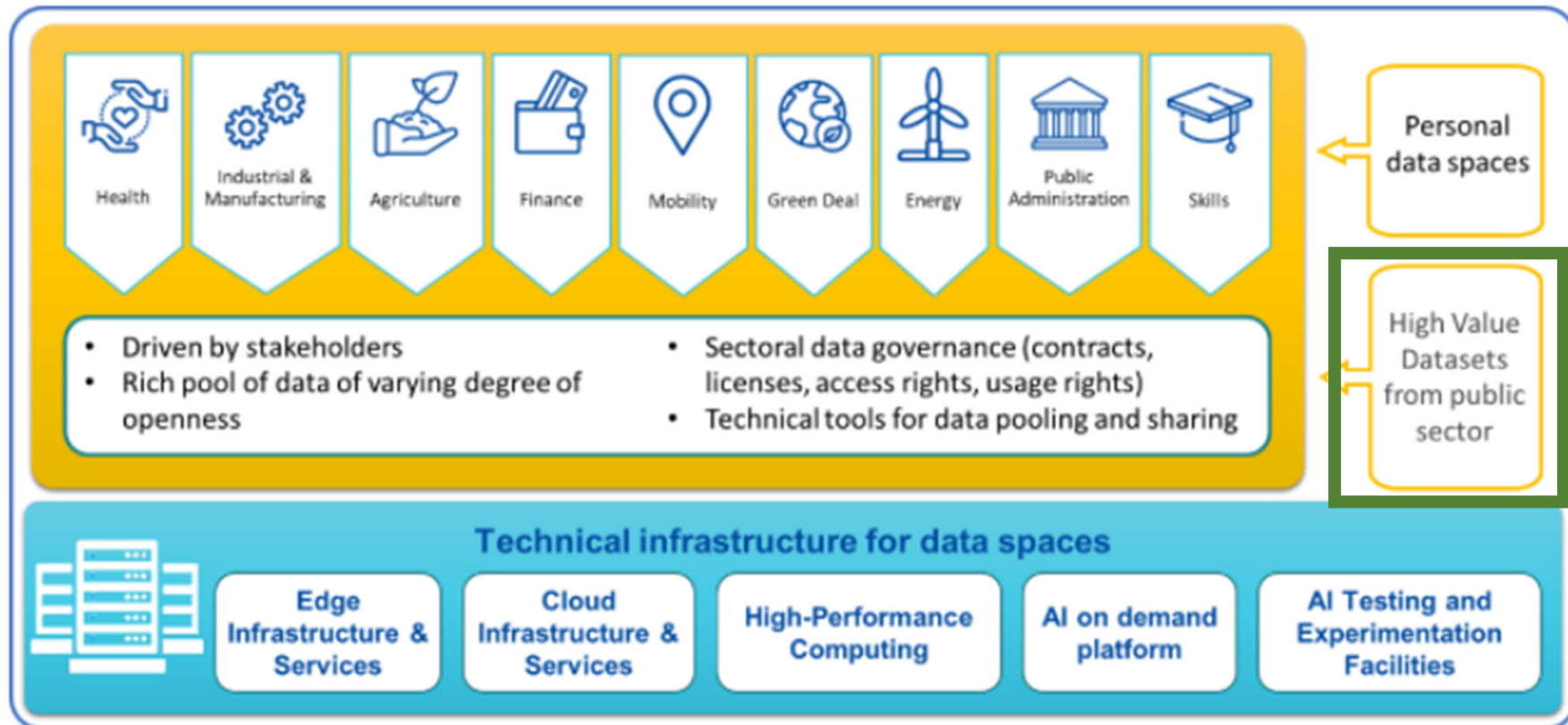
What Data?



Reference Parcels
Agricultural Parcels



How does it make data spaces & GDDS better?



How does it make data spaces & GDDS better?

Assets & lessons learned in

- Data specifications
- Metadata, harvesting standards
- Data sharing infrastructures
- Importance of community buy-in and iterations
- ...



Datadriven Decision Making

- **Data-driven insights**
 - Across all domains
 - Informed decisions
 - Effective strategies
 - Stimulate innovation



Science & Research

- **Data-driven research**
 - Accessing data
 - Identifying patterns
 - Gaining insights
- **Technological innovation**
 - Artificial intelligence
 - Machine learning
 - Data analytics



Environment & Climate

- Detailed data on
 - Greenhouse gases
 - Air pollutants
- Identifying sources of pollution
- Monitoring trends
- Data-driven climate and environmental policy
- Measuring the impact of measures
- Forecasting from historical data



Environment & Climate

Nominated in
category SDG



VLAANDEREN.BE | www.vmm.be

VLAAMSE
MILIEUMAATSCHAPPIJ



Vlaanderen
is milieuvriendelijk

Home Water Lucht **Klimaat** Data Diensten Over VMM

Alle Data

Water

Lucht

Klimaat

Tools

Bereken je Waterfactuur

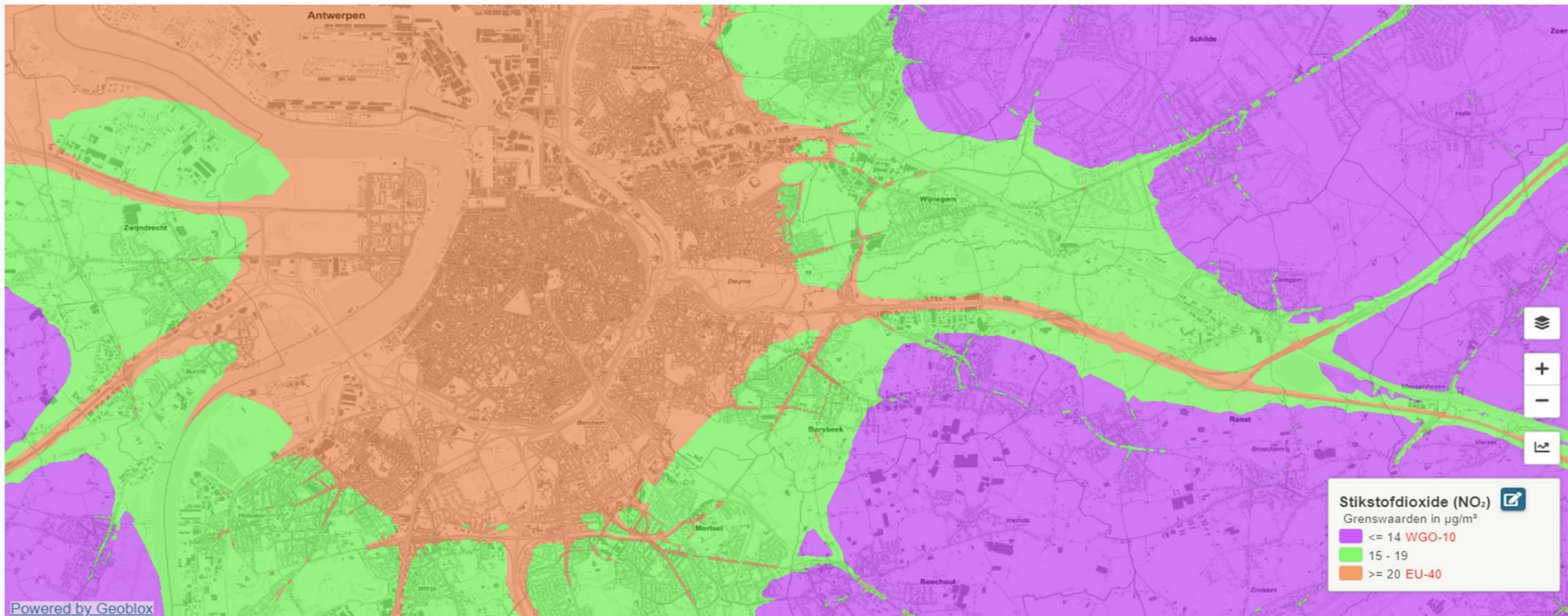
Zonering en
Uitvoeringsplannen

Riolerings en
zuiveringsgraden

Stikstofdioxide (NO₂)

Toon jaar 2021

Kies grenswaarden (uitgedrukt in µg/m³)



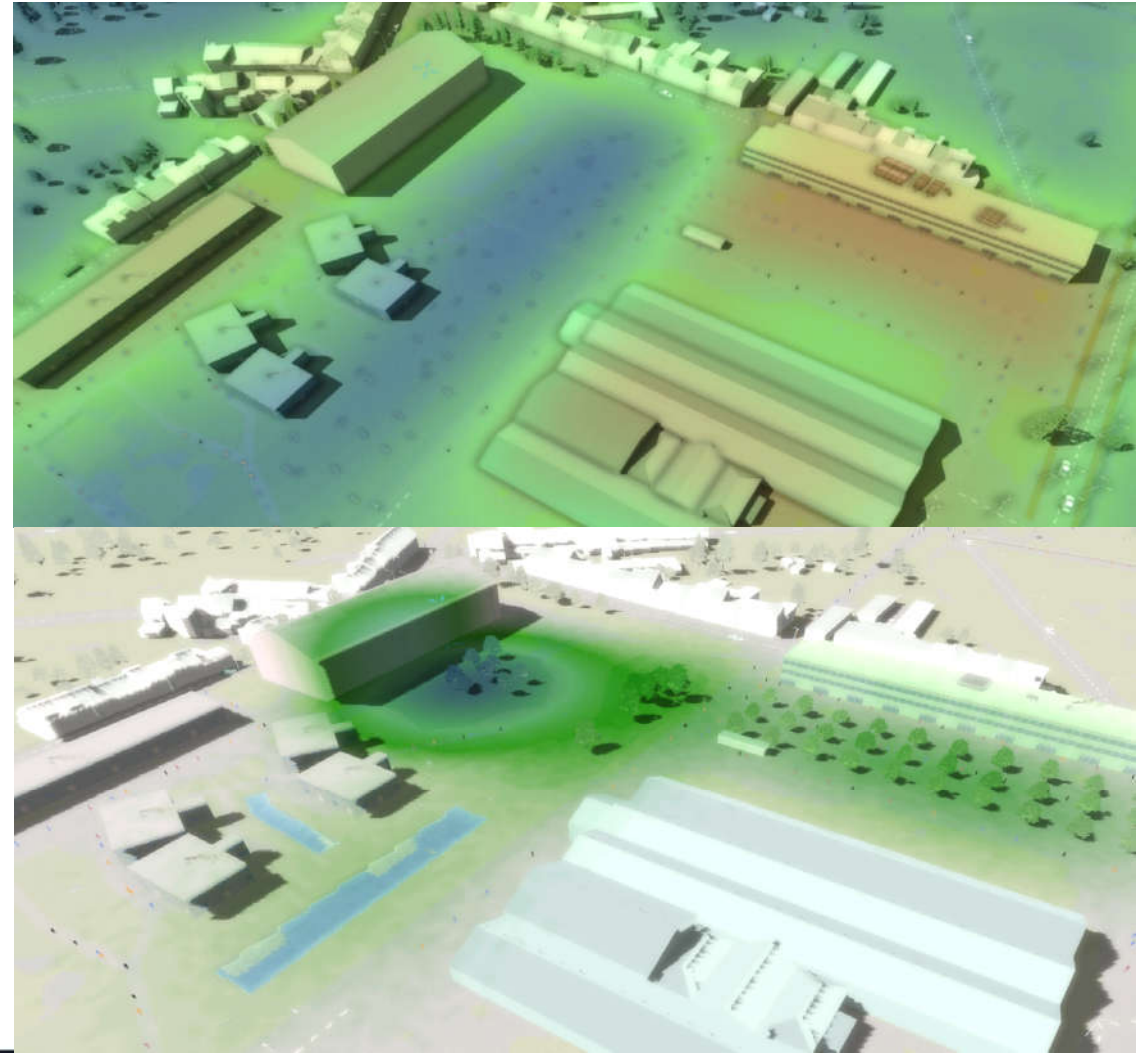
Powered by Geoblox

Government & decision-making

- **Urban simulation and optimization**

- Traffic flows
- Energy consumption
- Heat stress
- ...

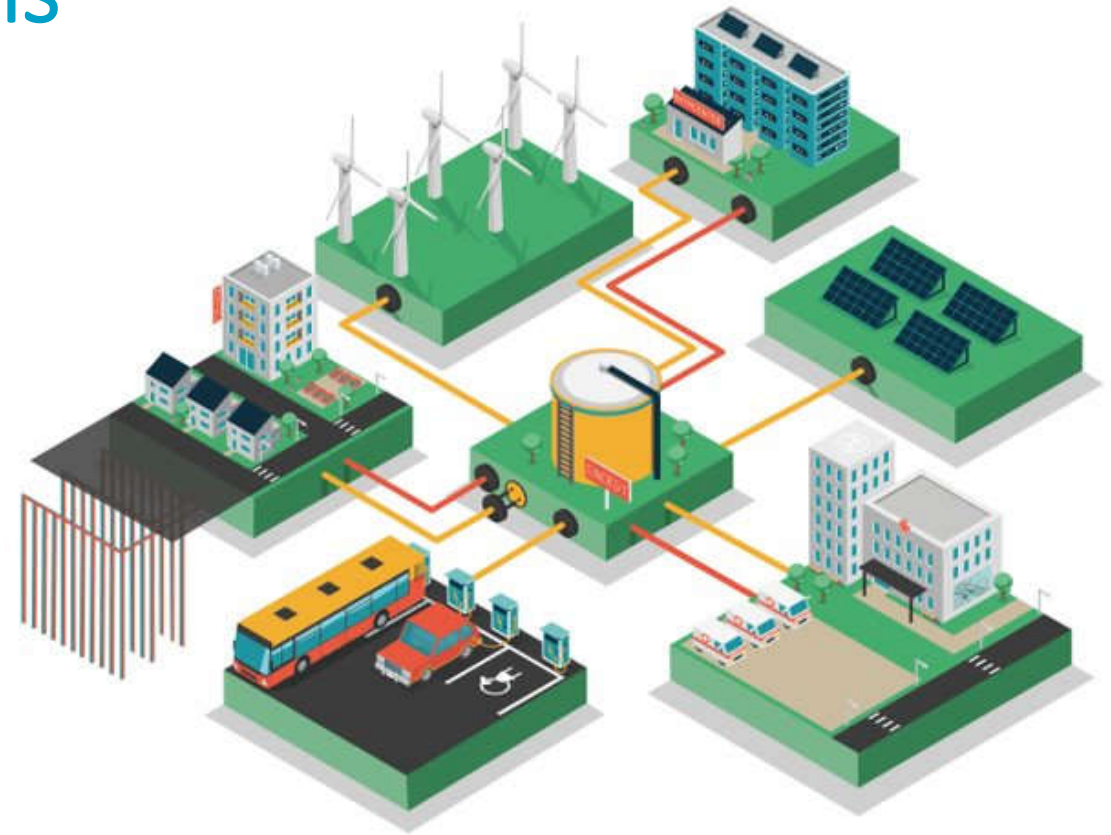
> through Digital Twins



Connected Digital Twins

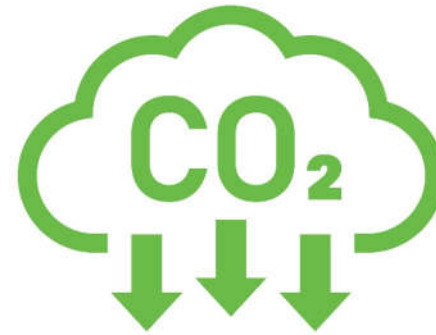
- Scaling
 - Cross-country
 - Fed with (live) data

 - Consult
 - Analyze
 - Simulate
 - Testing
- ... at different scales



Supply Chain & Logistics

- Inventory management
- Supply chain optimization
- Efficient logistics
- Route optimization



Finance & Insurance

- Value assessment
- Risk management
- Impact analysis of environmental disasters



Take Aways...



- **Combine data for emergent value: open data is ready!**
- **Do not reinvent the wheel: get inspired by HVD**
- **Focus on the use cases**
- **Involve data producers & data users**