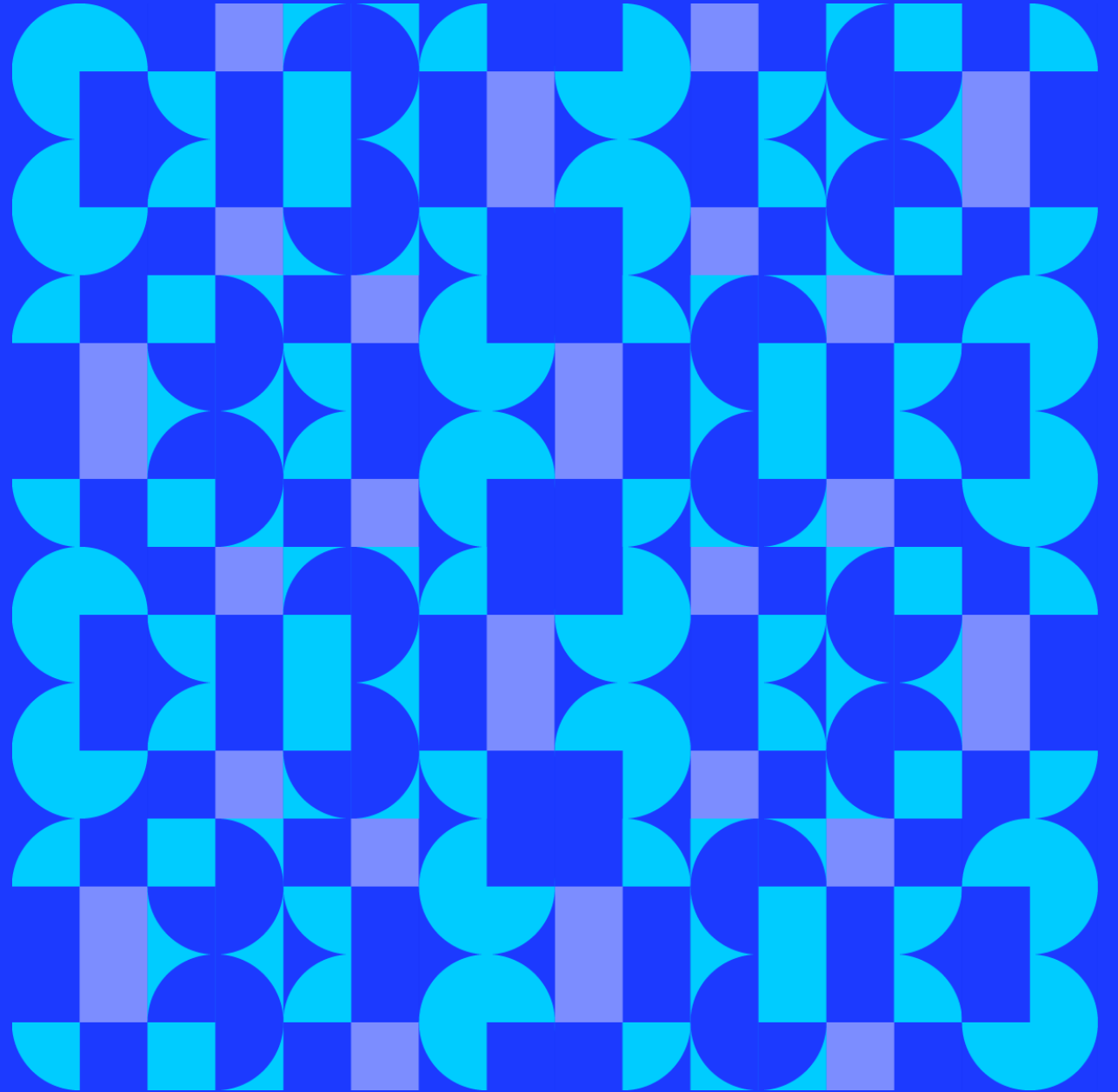# beopen

Project Presentation

Antonio Filograna

*Engineering Ingegneria Informatica*

Transforming & Exploiting High Value Datasets

19th November, Webinar

beopen-dep.eu

Snapshot

- **BeOpen Framework** will enable the development of new digital and AI services by facilitating access to and use of EU Public Sector High Value Datasets (HVDs).

- **8 pilots** will address mobility, urban security, environment, and natural disasters challenges in several EU regions.

- The project is now at **Month 18** and Pilots are starting to use the Framework to improve their data.
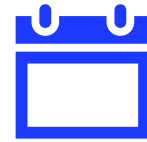
Duration: 30 Months
Jan 2023 – Jun 2025
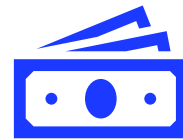
Budget: 7.447.000 €
Funding 50%

Digital Europe Programme
DIGITAL-2022-CLOUD-AI-02

Consortium: 17 Partners
+1 Associated Partner

Context overview

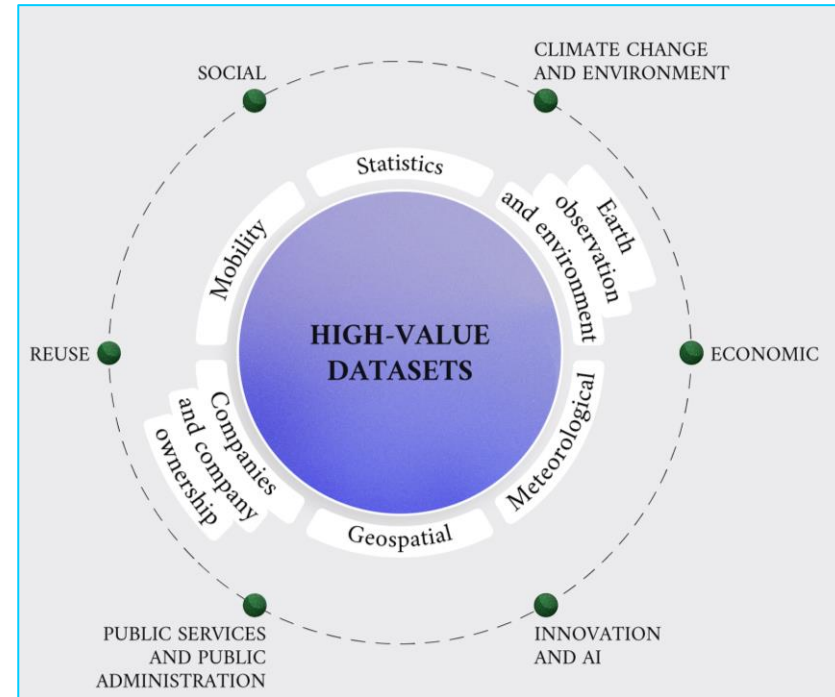- The concept of **High Value Datasets** (HVDs) is central to the EU's strategy for leveraging data as a key asset in the **digital economy**.

- Certain datasets (such as geospatial, environmental, statistical, and other crucial domain) hold significant potential for creating **economic value**, driving innovation, and **improving public services.**

- The need for HVDs arises from the increasing demand for **data-driven decision-making** across various sectors.

- Ensuring that these datasets are **open**, **standardized**, and **interoperable** across member states can enhance their usability, promote **cross-border applications**, and ultimately support the EU's broader goals of **digital transformation** and sustainable growth.

HVDs overview
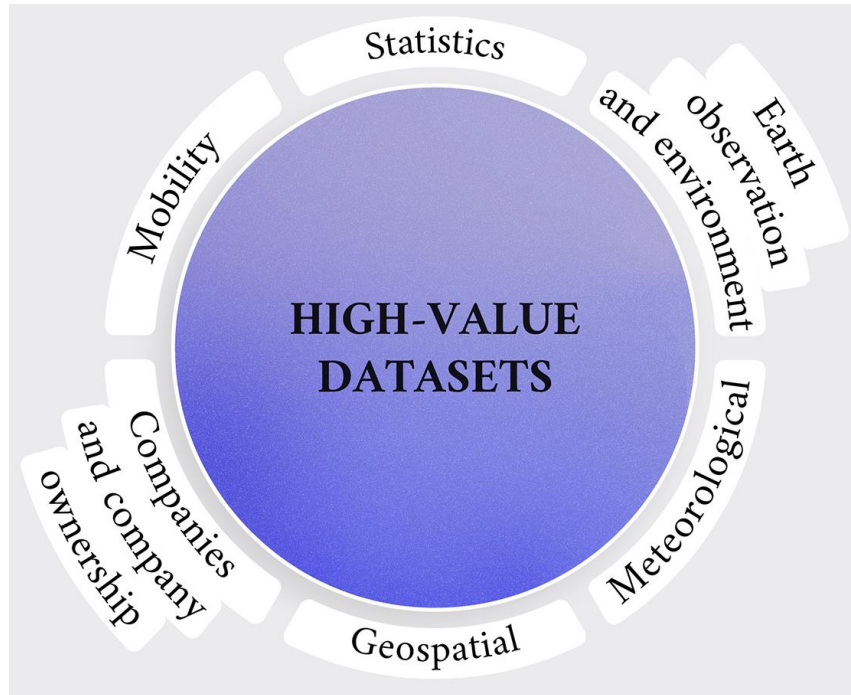
HVD thematic categories

HVD macro characteristics

Source: https://data.europa.eu/en/publications/datastories/high-value-datasets-overview-through-visualisation

HVDs overview
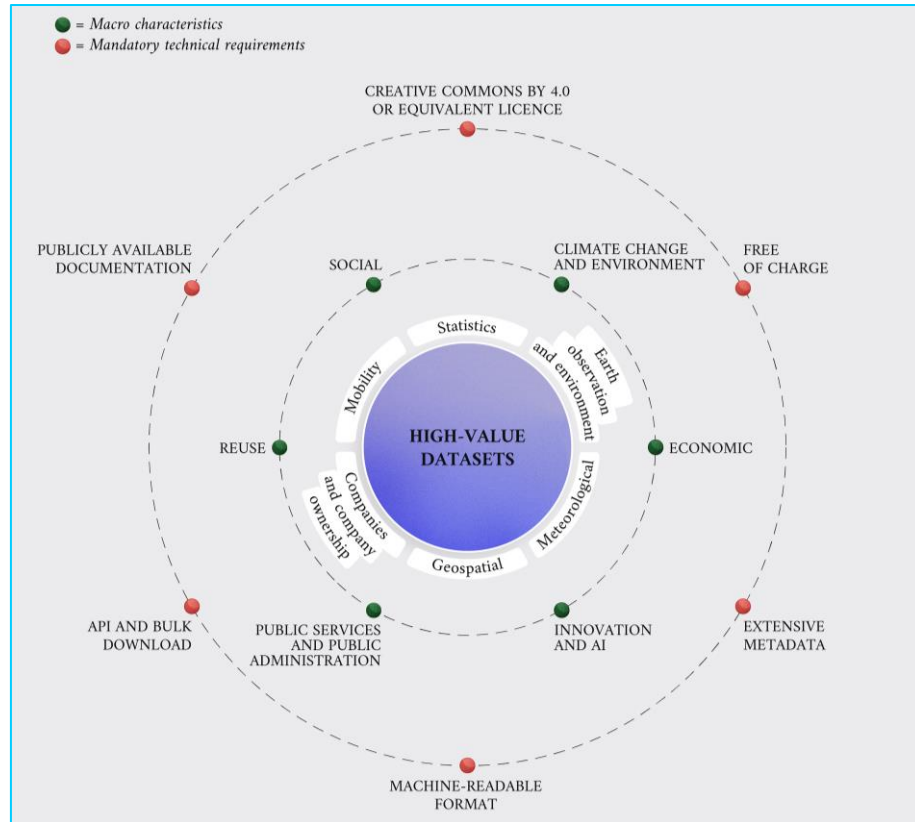
HVD features
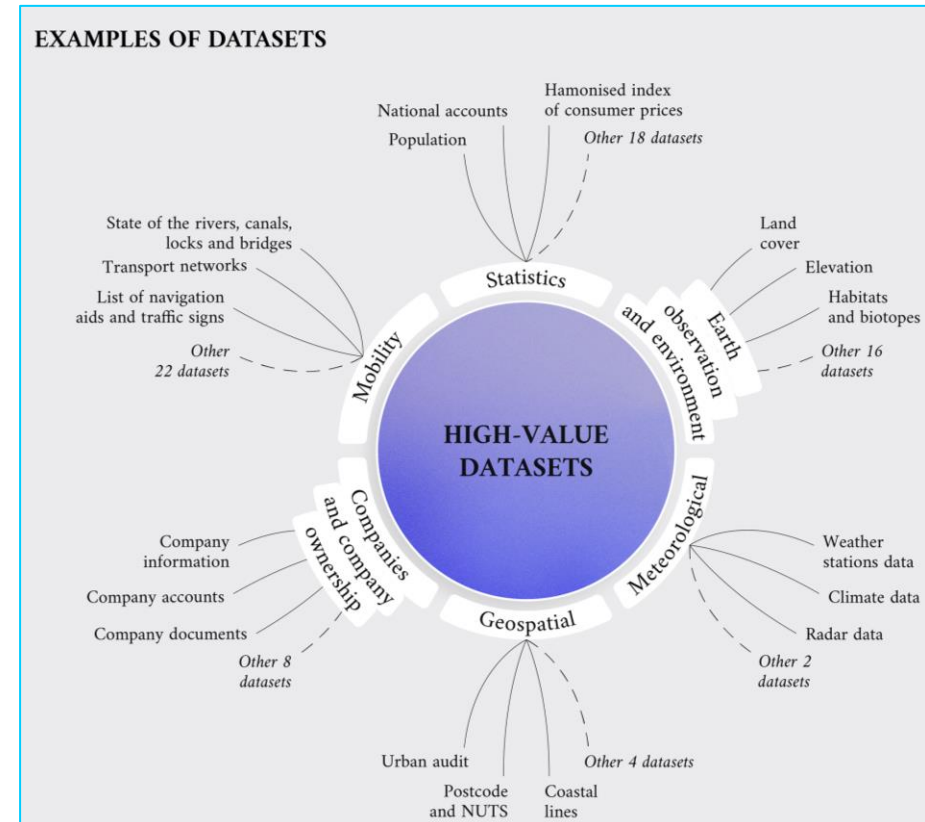
Examples of dataset

Challenges

The current challenges in the Public Sector are opportunities for BeOpen to

- Become the **catalyst of Open Data** existing in public administrations.

- Improve **data sharing**, interoperability, **availability & usability of data sets** in different sectors.

- Engage a **community of stakeholders** thanks to sister EU Projects and partners' networks.

- Build on expertise from **previous projects**, FIWARE open-source components and SMEs / start-ups leaders in data exploitation.

BeOpen solutions to overcome challenges

Privacy & Trust

Openness

Standard

AI Innovation

Cross Border

Inter-operability
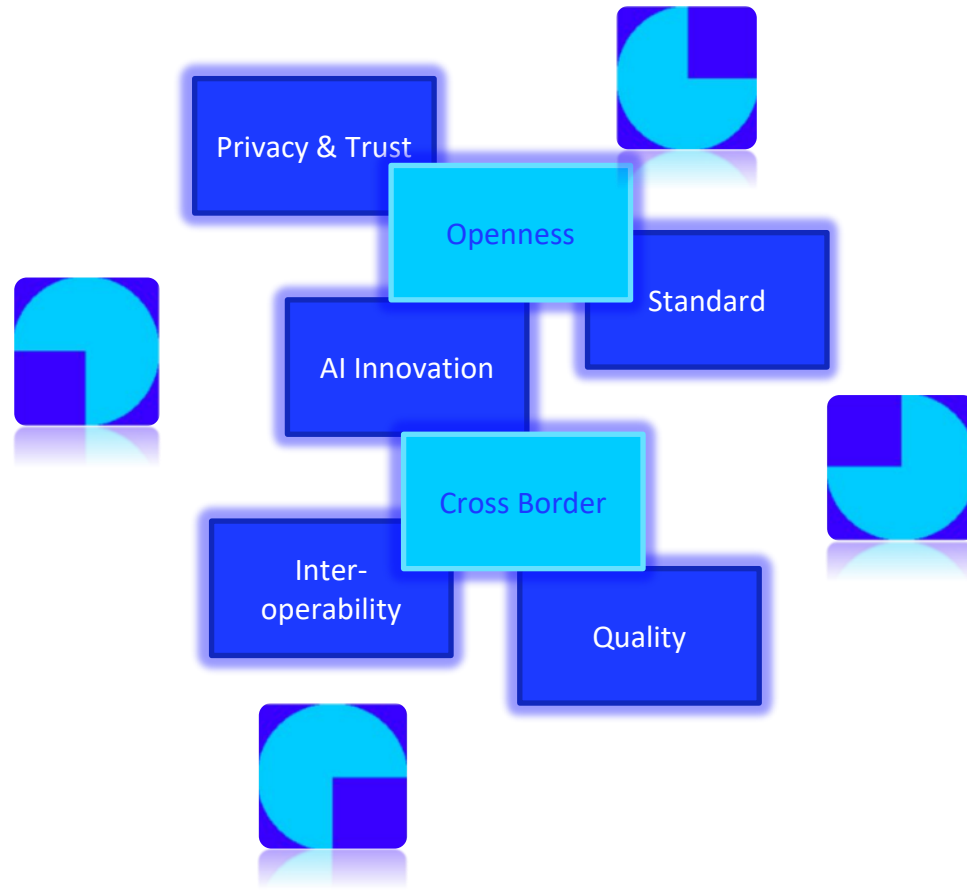
Quality

- **Technical framework** for data interoperability covering the complete pipeline from data collection, quality improvement, semantic enrichment, to data provisioning and publication.

- **Catalogue of High Value Datasets** (HVD), public Open Data available and accessible for the creation of new services and AI applications.

- **Guidelines and recommendations** - Legal interoperability of data.

BeOpen Methodology


```
┌──────────────┐      ┌──────────────┐      ┌──────────────┐      ┌──────────────┐
│ Needs and    │  →   │ Identification│  →   │ Develop of a │  →   │ Improve the  │
│ Challenges in│      │ of the        │      │ Framework to │      │ HVDs         │
│ the Pilots   │      │ possible HVDs │      │ support the  │      │              │
│              │      │               │      │ improvements │      │              │
│              │      │               │      │ of HVDs      │      │              │
└──────────────┘      └──────────────┘      └──────────────┘      └──────────────┘
```

feedback

┌──────────────┐   ┌──────────────┐   ┌──────────────┐
│ Evaluation of│ ←   │ Development of│ ←   │ Definition of│
│ the Impact in│   │ Digital   │   │ Digital   │
│ the usage of │   │ Services in   │   │ Services to │
│ new services │   │ each Pilot   │   │ exploit the │
│   │   │   │   │ improved HVDs│
└──────────────┘   └──────────────┘   └──────────────┘
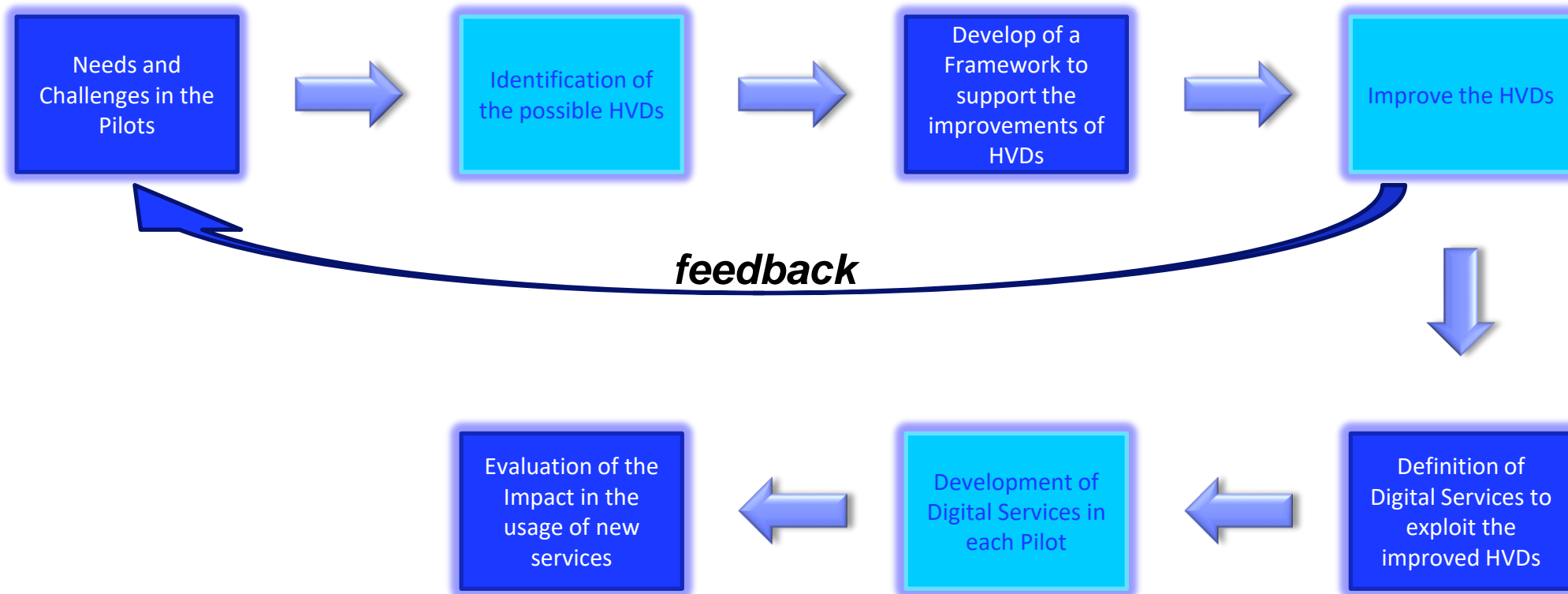
Testing the results in 8 Use Cases in 6 different EU regions

Napoli (IT)
Integrating Mobility Data and Urban Environment Information for Decision Making

Attica (GR)
Creating a "shield" from natural disasters for the region's citizens and environment

Herne (DE)
Improving AI-tools for street management and crowd safety at major events

Cartagena & Torre Pacheco (SP)
Urban security in historical cities with key critical infrastructure

Climate change mitigation actions: Urban Heat Islands & Heatwaves

Molina de Segura (SP)
Sustainable introduction of LED lighting and its impact on health

Porto (PT)
Assessing the impact of incidents with urban mobility data

Vilnius (LT)
Invading species detection and projected expansion

Meetings with cities, selection of KPIs, data collection (stakeholder survey, interviews, focus group, data analytics, opinion mining)

How the HVDs can support the data sharing in cities?

Valuable data

Standardized data

Interoperable data

Easily accessed by different **stakeholders**

CONSORTIUM PARTNERS

Built on the blueprint for a
common European data space
for smart cities and communities

See you soon!

Visit our website for updated information and follow our social media channels!

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Open framework for boosting EU High Value Datasets from the Public Sector

beopen-dep.eu