

# Urban Data Space for Green Deal - 101059950

**Coordinator:** Universidad Politécnica de Madrid (Oscar Corcho)

**Cities involved:** Zaragoza, Ferrara, Graz, Leuven

**Partners:** AVT (and AVT-ASI), Dedagroup, Epsilon Italia, FBK, GeoCat BV, OGC,  
Lisbon Council, KU Leuven

**Duration:** 36 months (01/08/2022 – 31/07/2025)

<https://cordis.europa.eu/project/id/101059950>

# Project context (and abstract)

Topic: [HORIZON-CL6-2021-GOVERNANCE-01-17 - Common European Green Deal data space to provide more accessible and exploitable environmental observation data in support of the European Green Deal priority actions](#)

- **SO1:** Long-term continuous processes for **stakeholder engagement and governance** applied to EO and IoT-sourced data
- **SO2:** Developing, integrating and making available **FAIR data, information and knowledge** in support of the LGD actions on climate change, circular economy, zero pollution, biodiversity, deforestation and compliance assurance
- **SO3:** Concrete solutions and tools using **data analytics and ML techniques** to support the GD priority actions at local level
- **SO4:** Consolidate **arrangements for LGD data access, sharing and interoperability**, in line with the FAIR principles for data, to facilitate the combination of data for policy analysis fostering such innovative data analytic solutions.

# Project abstract

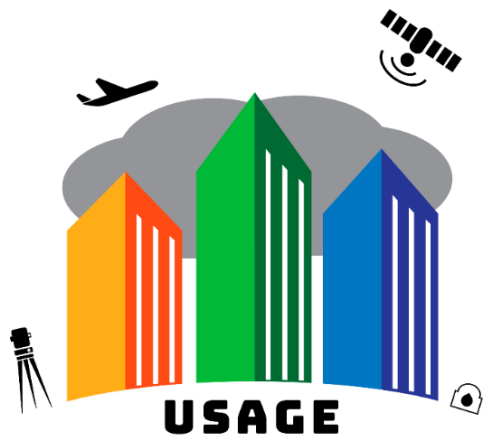
USAGE aims to provide **solutions and mechanisms for making city-level environmental and climate data available to everyone based on FAIR principles**. USAGE will support the implementation of the European strategy for data and various European Green Deal priority actions at the level where climate change is mostly felt: cities and towns.

USAGE will provide **innovative governance mechanisms**, consolidated arrangements, **AI-based tools** and **data analytics** to share, access and use city-level data from

- Earth Observation (EO)
- Internet of Things (IoT)
- authoritative and crowd sources

leveraging on **standards for data and service interoperability**.

USAGE wants to become a decentralized infrastructure for trustworthy data collection, processing and exchange based on commonly agreed principles, facilitating the combination of heterogeneous data for policy analysis. USAGE will validate its solutions in four diverse pilot areas located in four different countries, focusing also on the **reusability of the solutions in other urban areas**.



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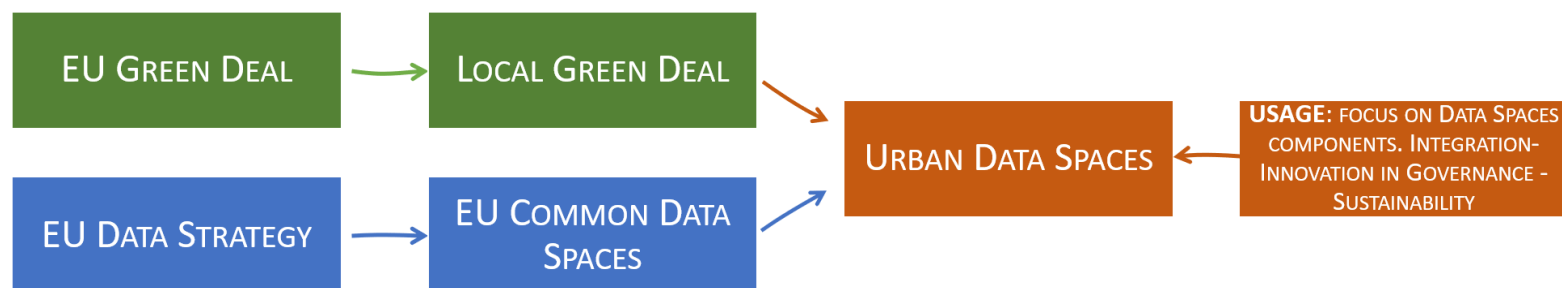
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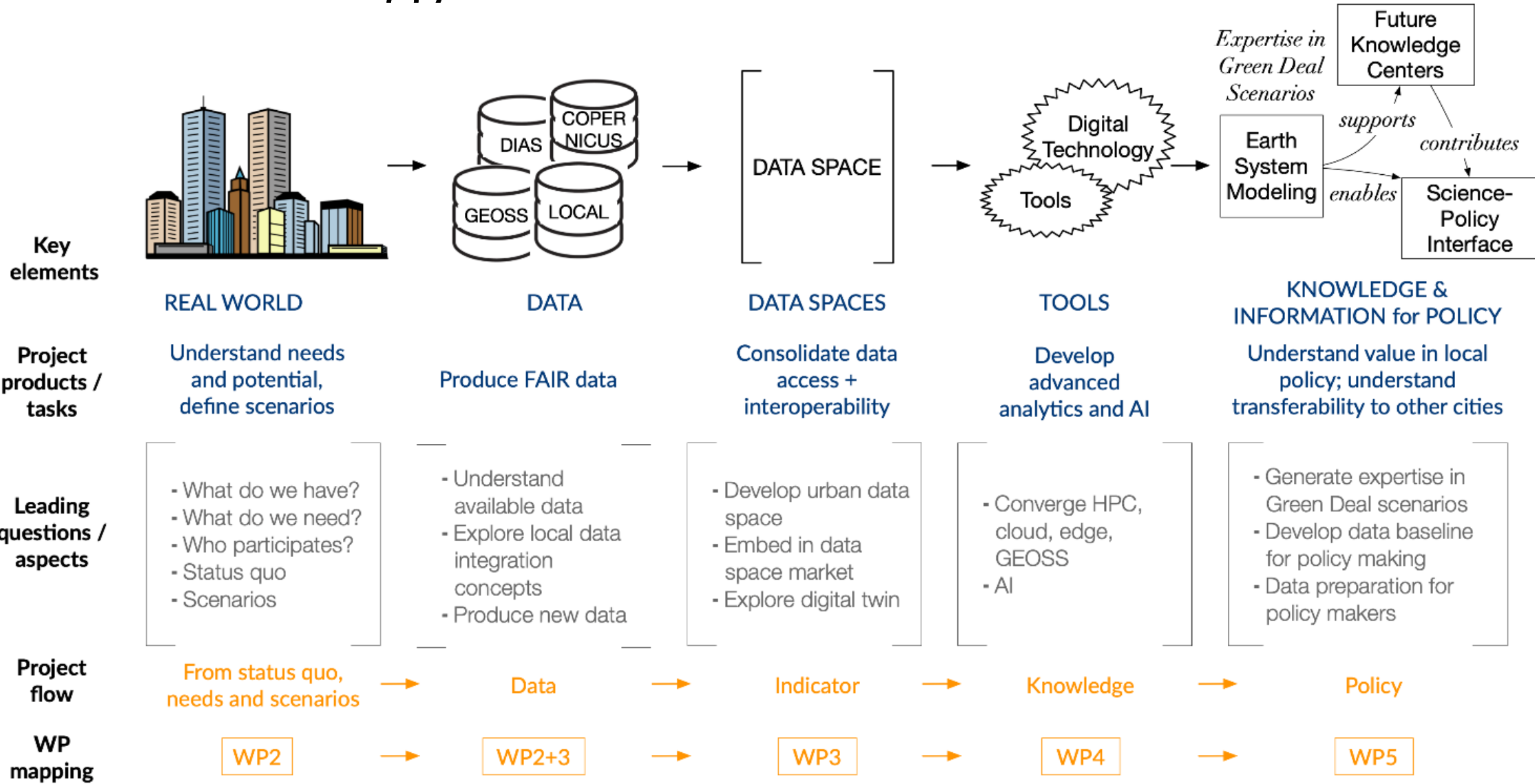
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## Objectives:

- Facilitate processes of **stakeholder engagement** in the use of EO and IoT environmental data
- Evaluate currently available architectures, components, data, and systems
- Define and produce missing elements, including modular tools (e.g., software, hardware, applications, clients, etc.) required by **policy and decision makers** to perform their work
- Identify or where necessary to develop the required standards-based data models, formats, and APIs **to ensure interoperability within the data space** as base for efficient implementation and transferability to other cities
- Formulate recommendations for a better usability/re-use of USAGE to implement urban data spaces for GD
- Collect the **necessary/missing (geo)data** to run the planned tools



# Methodology



# 5 phases

