



# **Collaborative, Secure, and Replicable Open Source Data Lakes for Smart Cities**



### Coordinator

City of Kiel (Germany)

### DSI

Public Open Data

### Location of the Action

Belgium, Germany, Finland, France, Spain and Italy

ODALA is a strategic European project that was launched in September of 2020. It is a collaboration between European cities, different private companies and research institutes and the goal is to improve data management and sharing between cities and regions. Basically, ODALA is an initiative that aims to facilitate decision making in public administrations.

ODALA will develop, test, and implement replicable data lakes to enable cities and regions to better manage data (real-time and historical) as a foundation for advanced smart city services (AI, etc) to enable better decision-making.

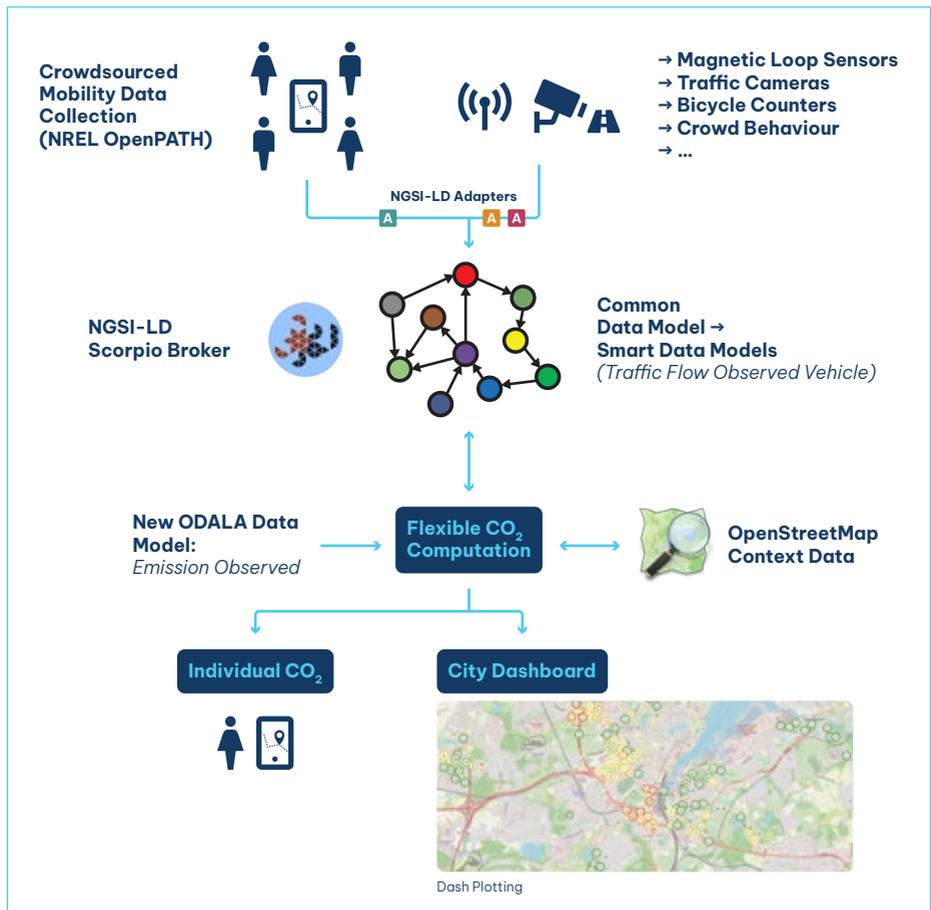
- Levering existing building blocks, mainly the CEF Context Broker
- Open source
- Replicable & Interoperable: Scalable outcomes beyond the 5 partner cities & regions
- Use cases in mobility and environment
- Benefits for public Administrations, ODALA will recommend an approach able to support the cross borders services, standardization philosophy and, secure Integration of the collected data.
- Best practices to share with Private Companies about the power of open data, data monetization and acceleration of decision-making for clients, such as Public Administrations.
- Useful experience for Developers, ODALA will show how is possible to reduce cost, save time and will share the lesson learned came from the deployment phase.

The goal of the ODALA Mobility Data Toolkit (MDT) is to utilize multiple available data sources to estimate real-time CO<sub>2</sub> mobility footprints in form of a “Green Transport Twin” for a city. Understanding CO<sub>2</sub> footprints of

cities transportation networks is crucial to enable a green transformation of Europe as it helps city legislators to take actions to reduce CO<sub>2</sub> footprint and track progress through time.

## ODALA Mobility Data Toolkit

The ODALA Mobility Data Toolkit consists of multiple loosely coupled components.



“A virtual place to bring data together in a secure and trusted way and to make it usable for the city but also for third parties is essential.”

**Jonas Dageförde**

Chief Digital Officer, City of Kiel, and coordinator of ODALA

“The project started aiming for a data lake, using CKAN and CEF Building Blocks, as we’ll MIMs (Minimum Interoperability Mechanism)“ to implement the action. Now, today, the project will also align with GAIA-X Federation specifications and IDSA Data Spaces, catching up with the latest innovation on interoperability on data.”

**Olaf-Gerd Gemein**

Business Architect, the initiator of the project.

## Partners



## Contacts

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