



USAGE project

Home

News & Media

Events

Challenges

People&Partners

Synergies

Resources

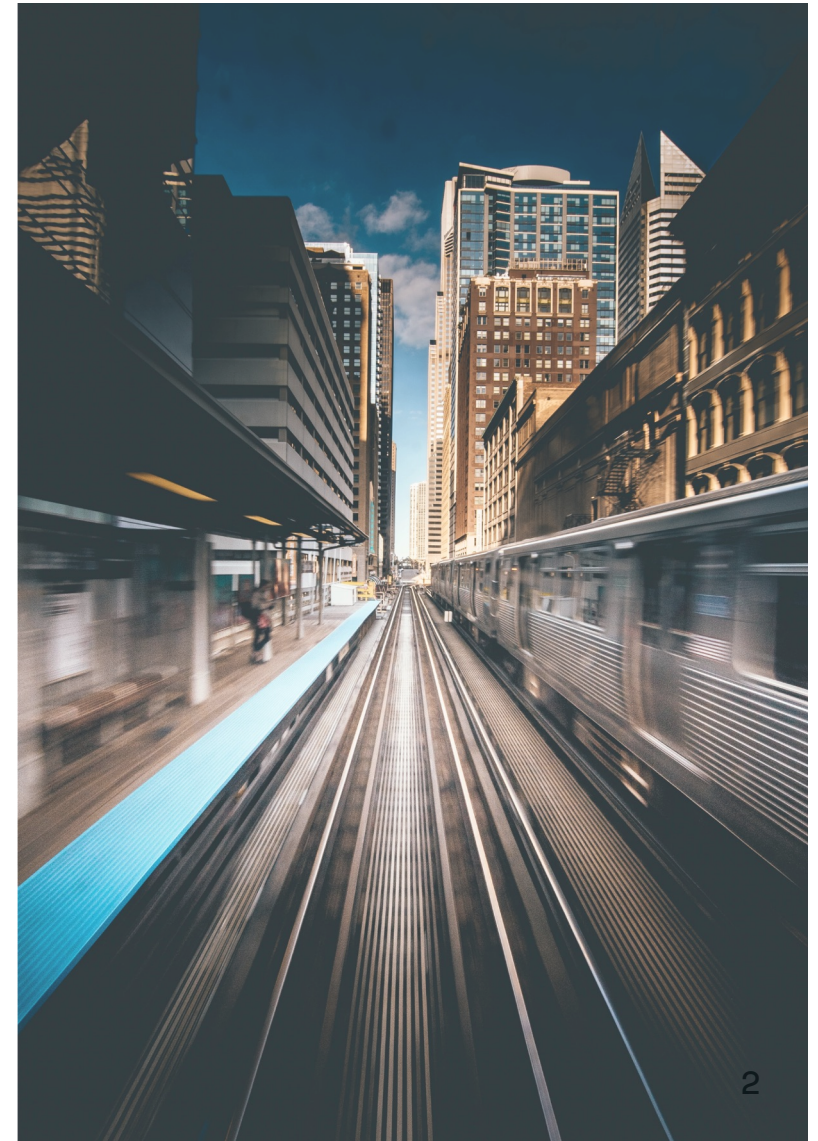
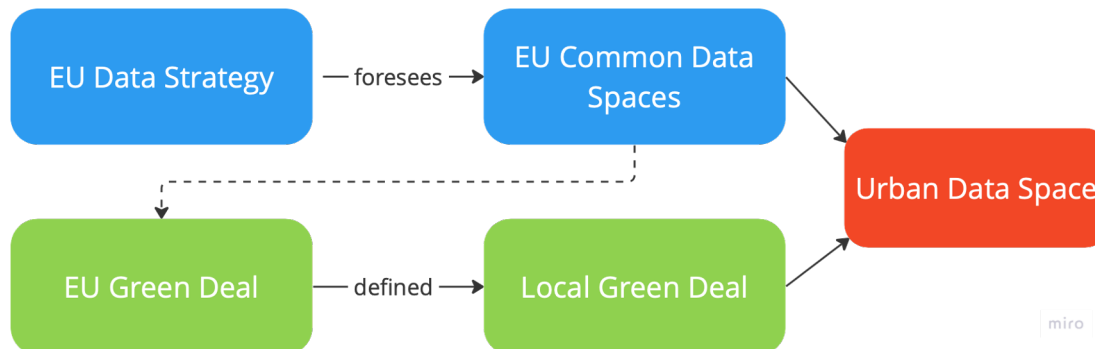


www.usage-project.eu

Marshalling EU cities 'twin' transition

Cities are called on to lead the Twin Transition:

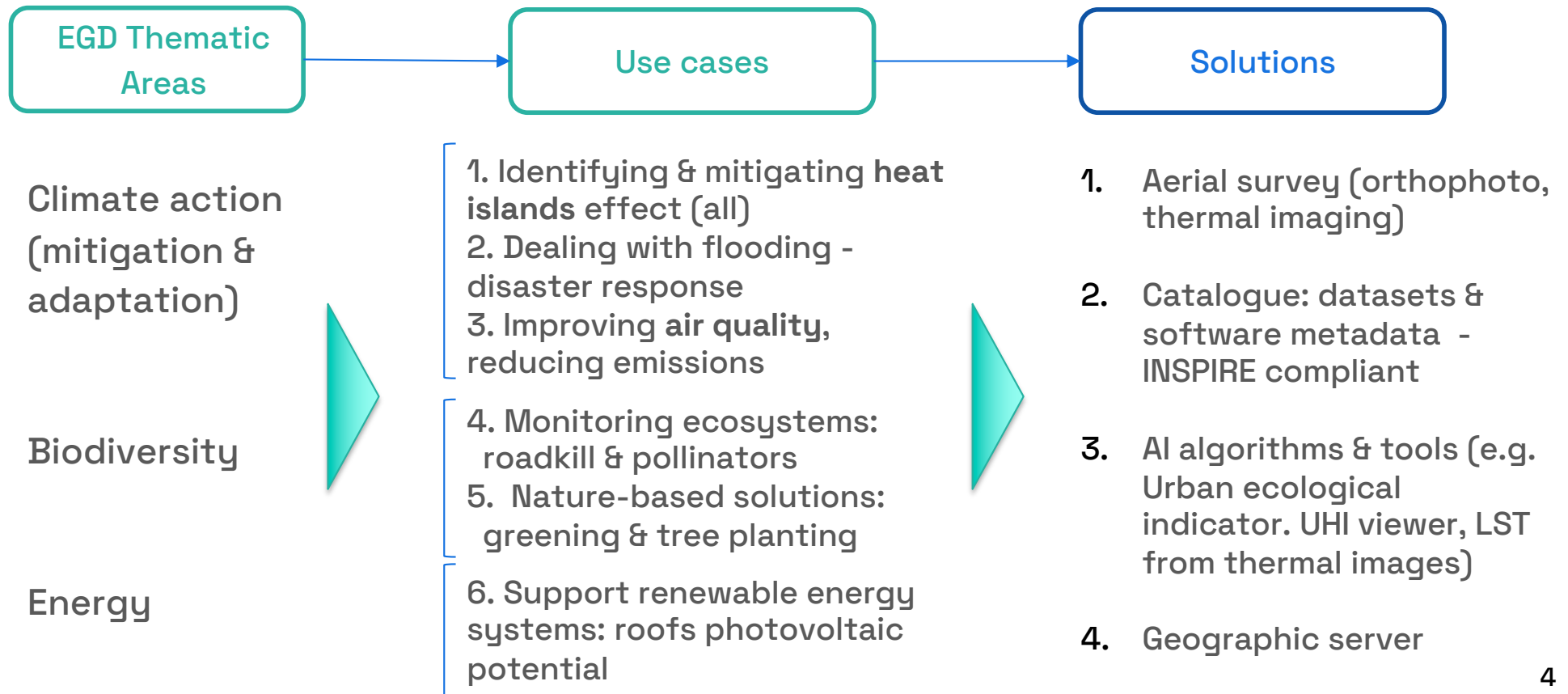
- Activate participation of all stakeholder groups
- Exploit the potential of data to effectively support Green Deal actions at local level



Point at issue

How can data spaces enable cities to address climate challenges?

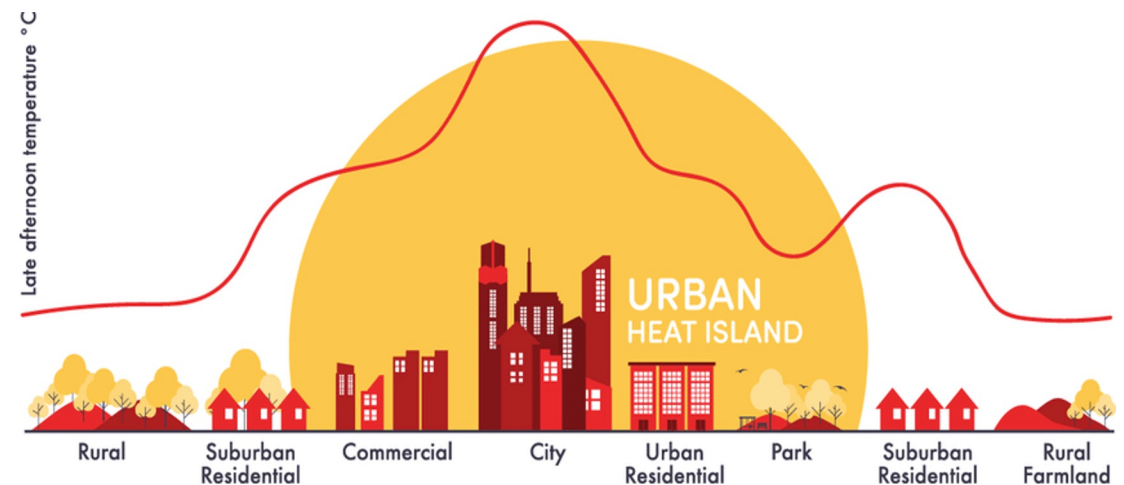
USAGE approach & solutions



Urban Heat Island (UHI) estimation use case

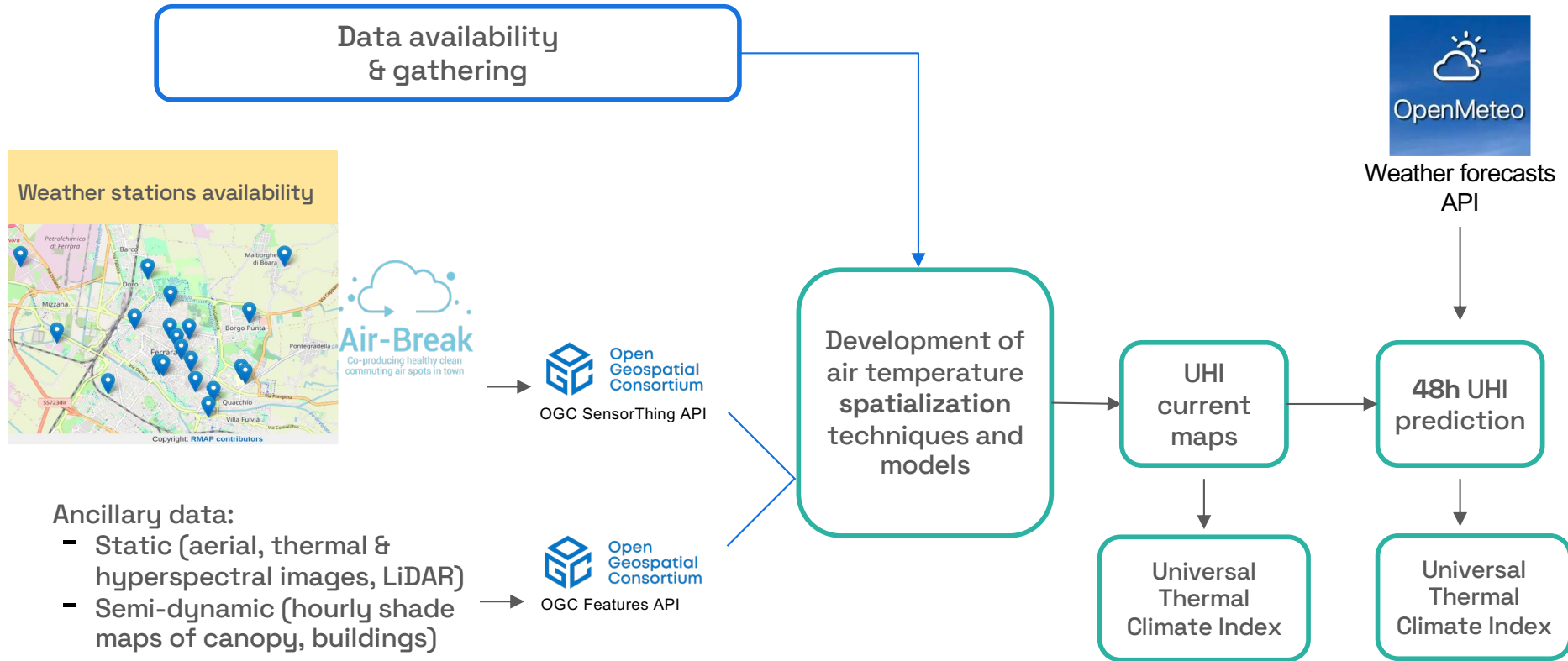
Challenges

- Highly built-up cities are warmer than surrounding areas
- Rising temperatures and air current anomalies – urban heat island
- Different types of data need to be integrated to identify and accurately estimate the location of urban hot spots
- Large amounts of data, once available, need to be used and constantly updated

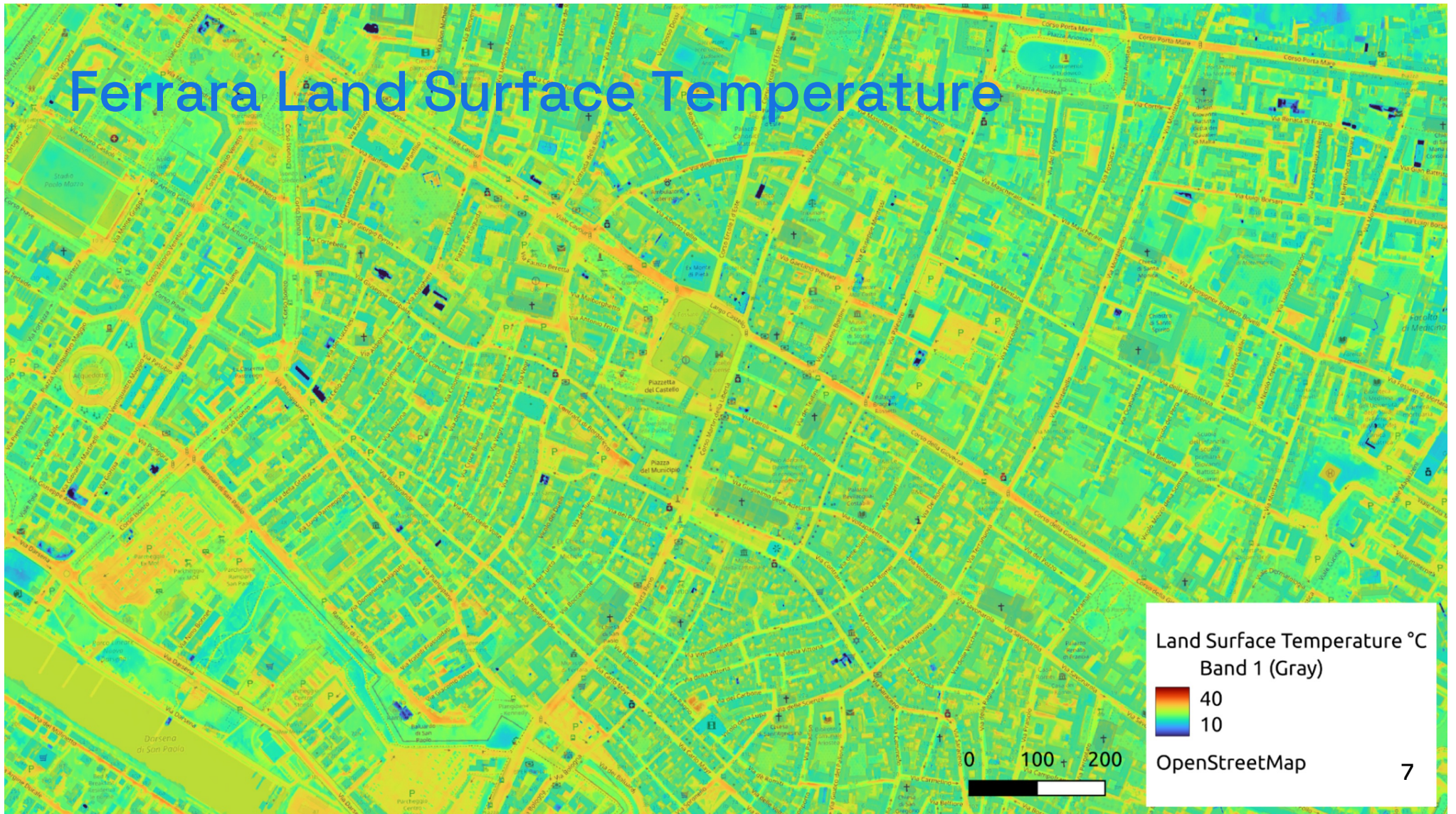


source: <https://community.wmo.int/en/activity-areas/urban/urban-heat-island>





UHI estimation in Ferrara



Ferrara Land Surface Temperature



USAGE at a glance

 <p>Coordinator: Universidad Politecnica de Madrid</p> <p>Duration: 36 months (August 2022 - July 2025)</p>	 <p>Enable universal access to city-level environmental and climate data for everyone, following FAIR principles</p>	 <p>Evaluating available architectures, components, data; Developing standard-based solutions (AI-driven tools, data models)</p>	 <p>Pilot and validate solutions in four middle-sized cities: Ferrara, Graz, Leuven and Zaragoza</p>
--	--	--	--



Take home messages

Data Spaces have the potential to:

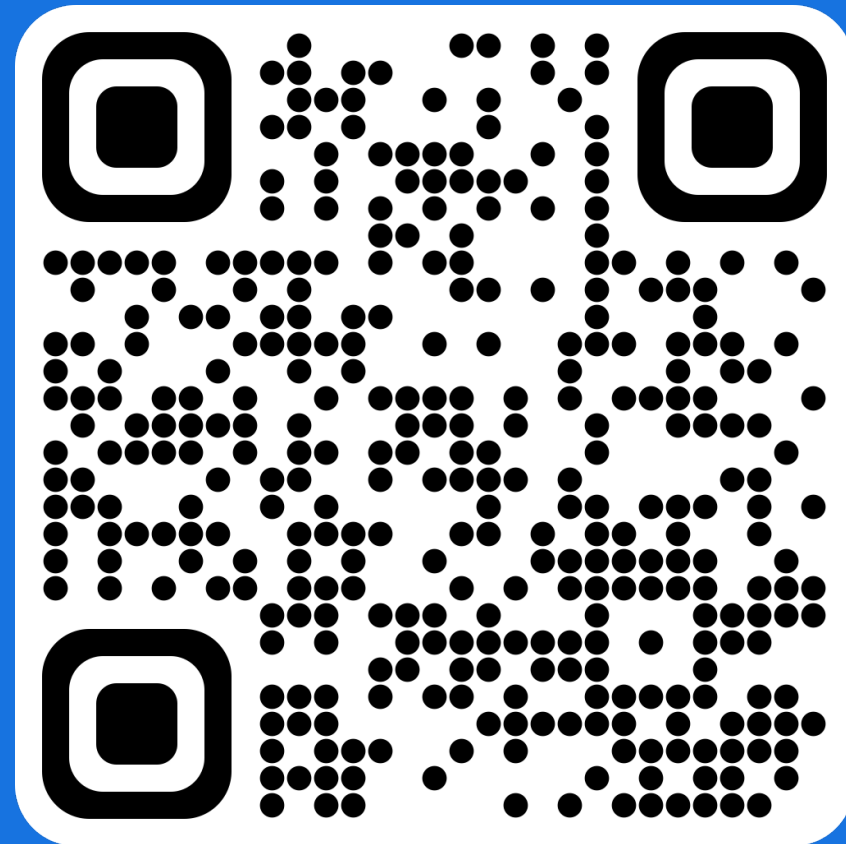
- support data-driven actions to tackle climate challenges ► ensuring **accurate & updated information** throughout the entire policymaking process, esp. **agenda setting** and policy **implementation**
- spur the collaboration between various city stakeholders

It is important:

- Clarify the goal(s) and governance: converge roles and relationships to foster wider participation, of private sector & citizens
- Ensure 'No DS's an island'

Thank you!

natalia.oprea@lisboncouncil.net
www.usage-project.eu



Co-funded by
the European Union

The USAGE project has received funding from the European Union's Horizon 2020 Framework Programme for Research and Innovation under the Grant Agreement no 101059950 - call HORIZON-CL6-2021-GOVERNANCE-01-17 (IA)