

Urban ReLeaf

**Citizen-powered data ecosystems for
inclusive and green urban transitions**

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Context

By 2050, an estimated **2.4 billion additional people** will live in cities globally.

By 2050, urbanisation in Europe is expected to increase from 72% in 2015 to **83.7%**.

By 2100, more severe heatwaves, with forecasts of **150K deaths annually** in Europe.





Part of solution

The expansion of urban greenspace and planting of trees are critical for climate change adaptation, health and well-being.



Community **placemaking**, **public sector innovation**, and tailored strategies to create **greener**, more **just** and **resilient** cities for all.

Driving Green & Digital Transitions

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+ Inclusive Citizen Science

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Methods that encourage and support the contributions of the public to the advancement of research and monitoring in ways that may include:

- co-identifying research questions
- co-designing/conducting investigations
- co-designing/building/testing low-cost sensors
- co-collecting and analysing data
- co-developing data applications
- collaboratively solving complex problems

6 cities

1. Policy Analysis
2. Data Ecosystem Mapping
3. Gap identification
4. Design citizen science
5. Innovative governance



ATHENS

Participatory tree registry

- Civic engagement platform for mapping, monitoring, and caring of trees

Low-cost air quality monitoring

- Improve spatiotemporal resolution and mapping of exposure to air pollution (PM_{2.5})



UTRECHT

Perception mapping

- Thermal comfort and perception of people around greenspaces compared with built-up areas
- Insights for policymaking and financial investment, especially under climate change scenarios and heat waves



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