Citizen-powered data ecosystems for inclusive and green urban transitions

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

At the European level, urbanisation is expected to increase from 72% in 2015 to 83.7% by 2050.

Climate change will exacerbate the urban heat island effect, with forecasts of 150K deaths annually in Europe by 2100 due to more severe heat waves.

The expansion of urban greenspace and planting of trees are critical for climate change adaptation, health and well-being. They provide cooling effects, decrease air pollution, and improve mental health, among other ecosystem services and health-related benefits.
Advance citizen-powered science to be a central resource for inclusive urban green planning and policy in support of the European Green Deal and the SDG 11.7 target

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→ 4-year project, 15 partners, 9 countries
  → 8 R&D entities
  → 7 city/province entities
  → 4 for-profit entities

→ Uptake and validation of citizen observations to complement authoritative measurement in the urban environment and boost citizen participation.
Assess current urban greening policy processes and co-create solutions that use citizen observations to complement existing data ecosystems.

Support the validation and long-term inclusion of active and passive data from citizens within authoritative data streams for urban monitoring, planning and innovation in public policy.

Mobilize and empower communities’ participation in issues of public interest surrounding urban green infrastructure and facilitate a community of practice related to the use of urban citizen.

Produce flexible and innovative governance solutions to scale inclusive urban green policy in support of the European Green Deal and UN SDGs.

AMBITION

SUPPORTING POLICIES...

GLOBAL
- SDG 11.7: Universal access to safe, inclusive & accessible, green and public spaces
- SDG 10: Reduce inequalities

EUROPEAN
- European Green Deal
- EU Adaptation Strategy
- Europe 2020 Strategy for smart, sustainable and inclusive growth
- EU Biodiversity Strategy for 2030
- 3 Billion Tree Pledge for 2030
- Green City Accord

LOCAL
- City-level greening policies
- City-level climate adaptation strategies
CITIES

Dundee, Scotland
Citizen engagement for resilient Blue Green Infrastructures transitions

Riga, Latvia
Adaptive community-based urban environment planning for the wellbeing of citizens

Utrecht, Netherlands
Mitigating heat stress through private greening and active community management

Cascais, Portugal
Bioclimatic comfort analysis and resilience with nature-based solutions

Mannheim, Germany
Citizen engagement for building a tree registry and mitigating heat stress

Athens, Greece
Participatory tree registry and air quality monitoring
CHALLENGES

Governance

- Assess landscape of current governance models for citizen participation and data in the context of urban greening
- Co-design adapted models to support policy uptake of citizen observations and data and inclusion of citizens in fair urban greening and decision-making processes.

Trust
Multidimensional and multidirectional issue across actors and parties involved, power and goal dynamics

Process
New common frameworks to align information and decision (infra)structures across stakeholders
CHALLENGES

Governance

• Assess landscape of current governance models for citizen participation and data in the context of urban greening
• Co-design adapted models to support policy uptake of citizen observations and data and inclusion of citizens in fair urban greening and decision-making processes.

• **Toolkit & Adoption Roadmap** – Pathways for public authorities (City-level planning & National/Regional policy frameworks)

• **Accelerator program** – Capacity development across ICLEI network for the uptake of CS in decision-making
Thank you!

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