**GREENGAGE - Promoting innovative governance and helping public authorities in shaping their climate mitigation and adaptation policies by engaging with citizens via Citizen Observatories** 

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Learn more here, soon: greengage-project.eu (not online, yet)

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# Project numbers

**EU contribution** € 3,588,499 (+ € 2 Million from APs)

Grant agreement ID: 101086530

17 Participants, Innovation Action

**Funded under:** Food, Bioeconomy Natural Resources, Agriculture and Environment

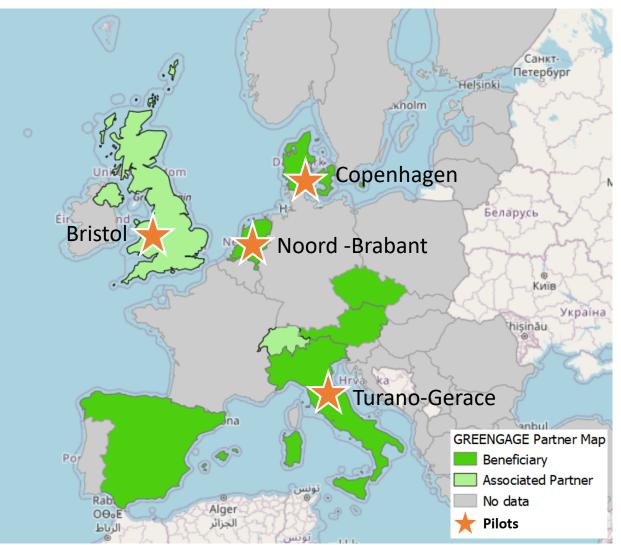
HORIZON-CL6-2022-GOVERNANCE-01-08 - Uptake and validation of citizen observations to complement authoritative measurement within the urban environment and boost related citizen engagement

### Start date 1 January 2023

the project has not started yet

### End date 31 December 2025

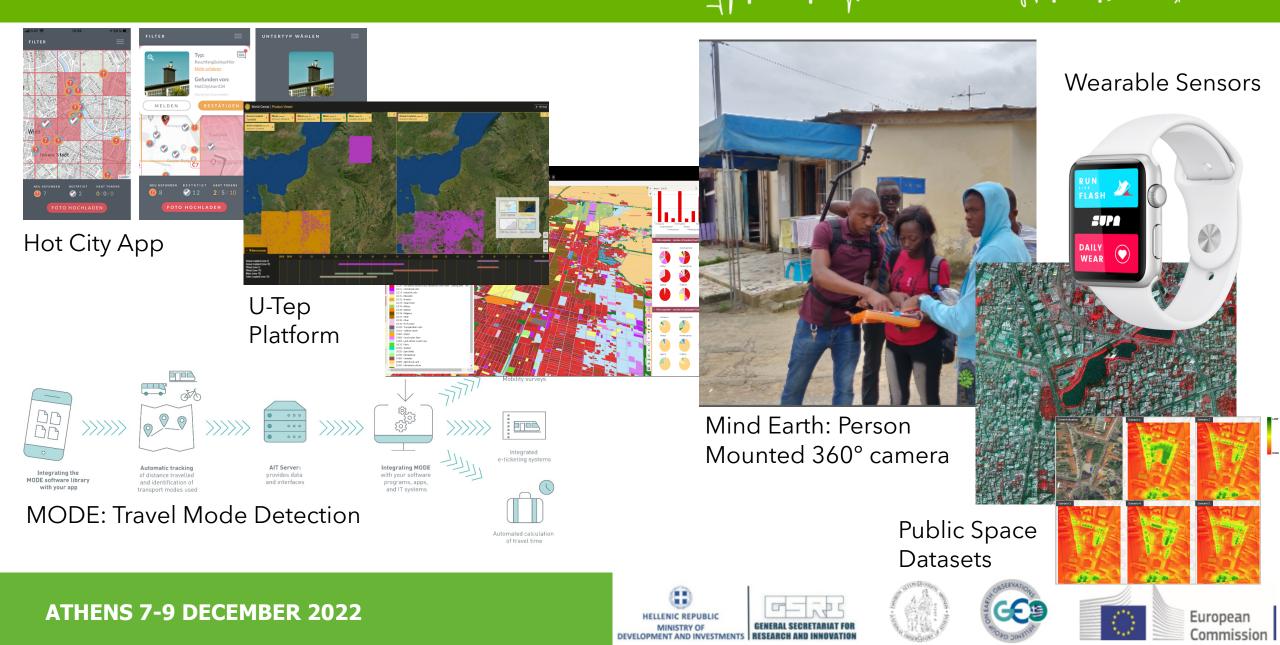
• 36 months



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# Aim of the project

- 1. Enhancement of intelligence applied to city decision making process and governance by engaging with citizen observations integrated with Copernicus (services CAMS, CLMS, C3S), GEOSS, in-situ and socioeconomic intelligence, and delivered by innovative governance models based on novel toolboxes of decision-making methodologies and technologies.
- Harnessing the social and cultural opportunities to promote the active engagement of citizens via COs in the collection and use of urban decision-making intelligence support.



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### **GREENGAGE's Key Exploitable Results (1/2) - What to expect?**

### **KER1: The GREENGAGE CO Academy**

A **knowledge base** to store and index training materials, MOOCs, success stories, findings and best practices collected from the four CO pilots.

### **KER2: The GREENGAGE CO Methodology**

A co-creation driven **thematic data workflow experiment incubation approach**, including supporting materials to reach, engage, involve, and educate citizens in performing observational and co-creation activities to tackle the full potential of citizen creativity and increase responsible and informed decision making.

### **KER3: GREEN Engine and toolbox**

An **ESA's Urban-TEP based infrastructure complemented with a wide assortment of tools** to facilitate the data (Copernicus and in-situ) to policy lifecycle outward (for designing new policies) and inward journey (for validation of existing or refined policies) and a co-creation approach for multi-stakeholder engagement in citizen observation experiments.



### **GREENGAGE's Key Exploitable Results (2/2) - What to expect?**

### **KER4: GREENGAGE Citizen Observatories**

With the support of the knowledge base provided by GREENGAGE Academy (KER 1), **KER 4 is the GREENGAGE cocreation methodology to devise feasible and sustainable citizen science experiments**, its supporting GREEN Engine and interoperable and extensible toolbox covering the whole data to policy lifecycle.

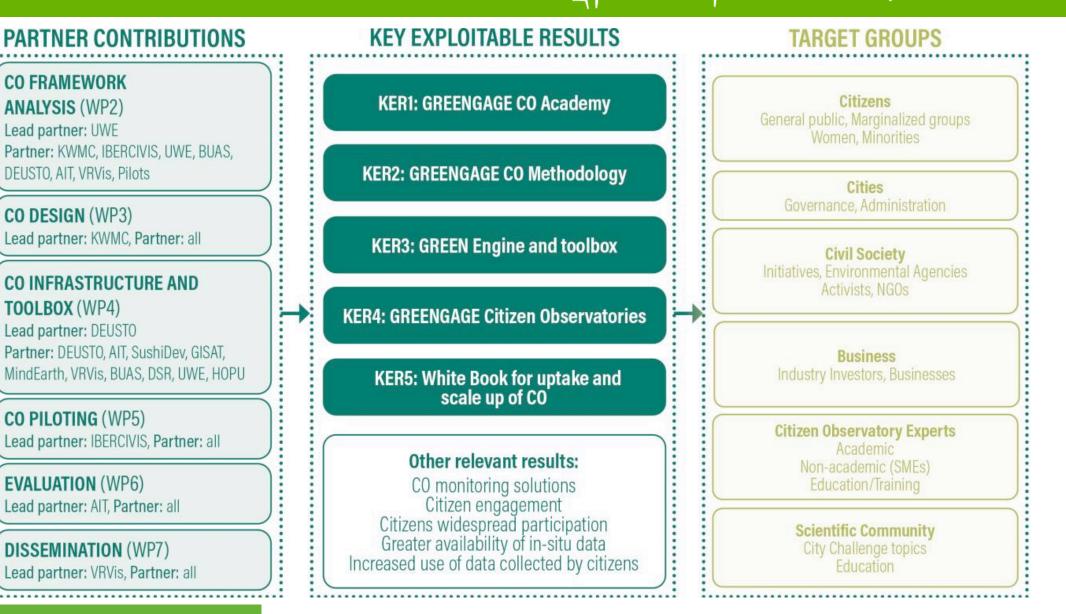
### KER5: A White Book for uptake and scale up of Citizen Observatories

Lessons learnt in the application of GREENGAGE Citizen Observatories enabling methodology, engine and associated tools to realize representative Green Deal will be drawn. This will lead to a suite of recommendations generated for selecting challenges appropriate for CO projects and for setting up new CO projects to duplicate successful GREENGAGE approaches and develop new CO projects to increase and accelerate citizen awareness and co-creation of solutions for fostering sustainable behaviour change and raise acceptance of climate action measures with special attention to historically disadvantaged populations.









### **GREENGAGE** Pilots

Pilot		Scale	Challenge	Governance innovation	Impact
Copenhag	en	District / Neighbourhood	Create a sustainable and thriving neighbourhood	Co-Creation with citizens, investors and public bodies to accelerate sustainable change	Realisation of 15 minute city solutions
Bristol		Neighbourhood	Enhance quality of life + reduce GHG emissions	Empowerment through digital engagement	Promotion of liveable neighbourhoods
Turano - Gerace		Rural Community	Reverse rural depopulation with new opportunities for remote working	Promotion of Integration of rural - urban dependencies	Creation of viable solutions for rural depopulation
North- Brabant		City-Region	Promote city-region mobility	Enhanced decision-making promoted by digital twin engagement	Enhanced mobility efficiency with infrastructure and investment optimisation

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### GREENGAGE Pilots and their Challenges

#### Turano - Gerace, Italy

Scale: Turano valley / Municipality of Gerace Green Deal Areas: increase climate ambition, empower citizens Groups to be addressed:

people who live in 'home-working' cities

#### Data challenge:

- Data challenge in relation to urban regeneration; requirement for a holistic and integrated approach that addresses the need for combined assessment of the socio-economic and environmental components of sustainable development.
- Regenerative actions must respond to the fragile balances in the community environment developed over centuries and which retain a high level of a value linked to both traditions and intangible heritage.

#### **Bristol**, UK

#### Scale: Neighbourhood

Green Deal Areas: increase climate ambition, sustainable and smart mobility, zero-pollution environment,

#### Groups to be addressed:

 Inclusive and more focus on historically under-represented groups

#### Data challenge:

- Existing gaps in data can be addressed using new tools and technologies in help build the case for change.
- Data that is currently not developed but would have great potential: unreported and near miss collision, tree canopy cover, actual and perceived safety, overheating and parking (e.g., density and infringements).

#### Noord-Brabant, The Netherlands

Scale: Region of Noord-Brabant

Green Deal Areas: sustainable and smart mobility, increase climate ambition, empower citizens

#### Groups to be addressed:

citizens within 21 regional communities

#### Data challenge:



- Need for a representative and current GPS-dataset to monitor transition towards sustainable travel behaviour
- More effective use of newly available (open source and company) data on land use and environment, currently not used to full potential
- Lack of a systematic approach to combining citizens observations with data in the DT

#### Copenhagen, Denmark

Scale: District of Copenhagen

Green Deal Areas: increase climate ambition, sustainable and smart mobility, empower citizens

#### Groups to be addressed:

Employees who commute

#### Data challenge:

- Engagement through data, as citizens' collection of air exposure data will work to heighten the overall knowledge
- Using wearables the data set will provide average exposure per mode of transport, and the importance of choice of route will be documented to participants



GREENGAGE Pilots and their Challenges

# Bristol, UK

### Scale: Neighbourhood

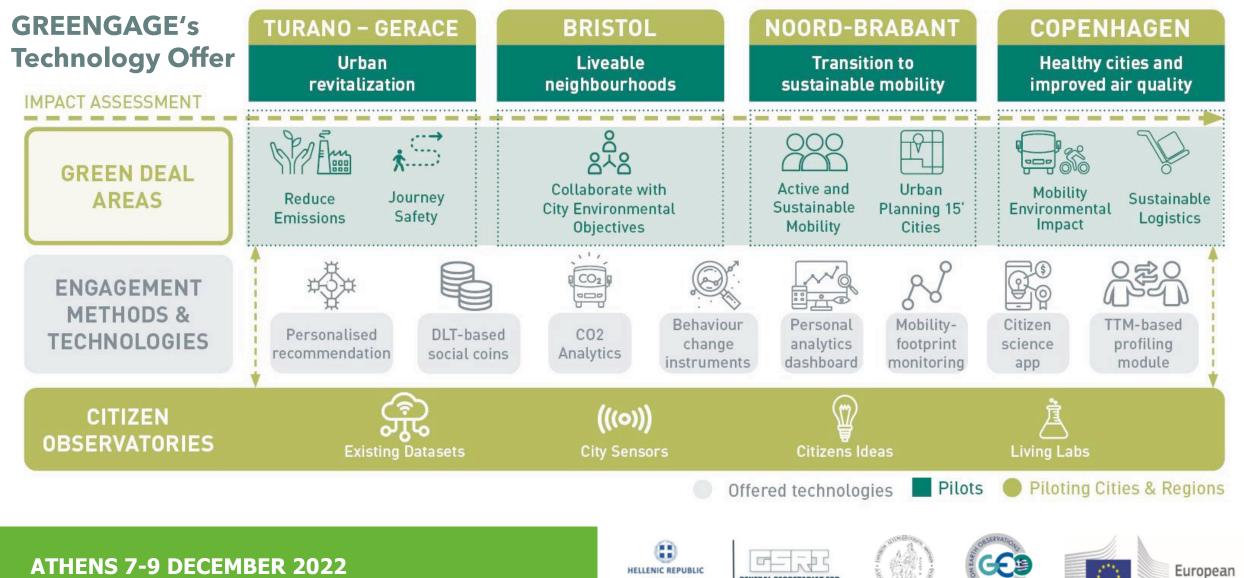
Green Deal Areas: increase climate ambition, sustainable and smart mobility, zero-pollution environment.

### Groups to be addressed:

 Inclusive and more focus on historically under-represented groups

### Data challenge:

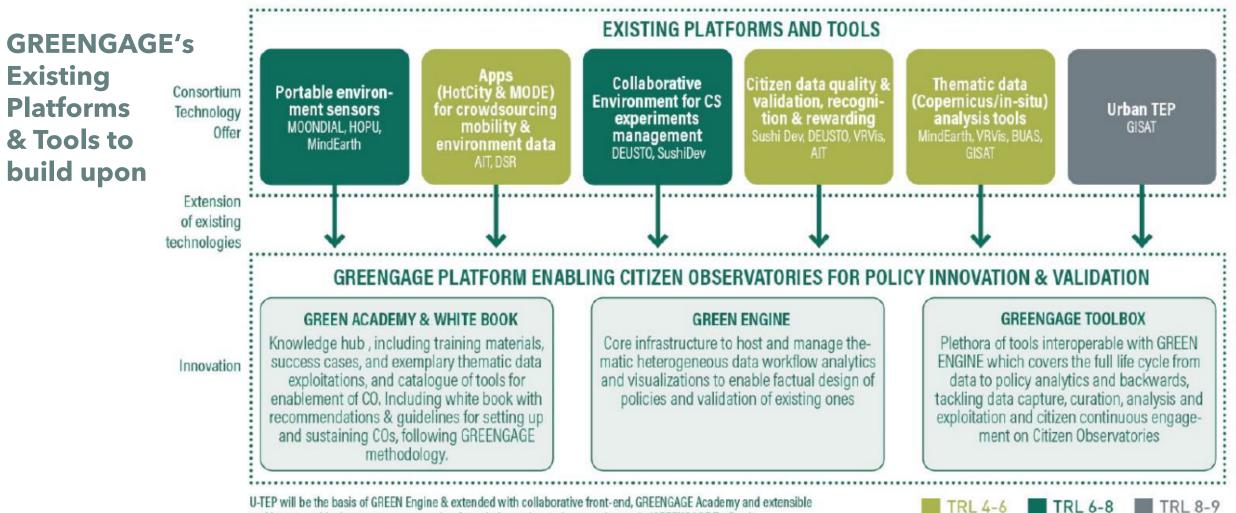
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U-TEP will be the basis of GREEN Engine & extended with collaborative front-end, GREENGAGE Academy and extensible and interoperable data capture, processing & analytics and crowd-supporting tools (GREENGAGE Toolbox)

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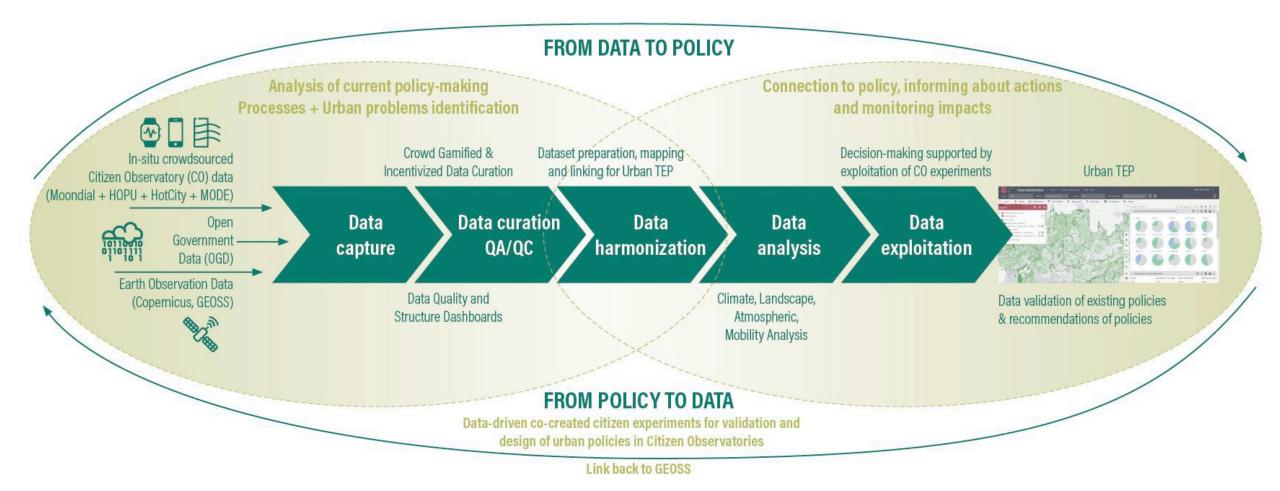




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# Q&A

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Project Coordinator: Jan Peters-Anders (jan.peters-anders@ait.ac.at)



### **Pilots:**

- Bristol City Council (Pilot: Bristol (BCC))
- I Borghi Più Belli D'italia (Pilot:Turano Gerace (Borghi Italia))
- Miljopunkt Amager (Pilot: Copenhagen (MPA))
- Noord-Brabant Provincie (Pilot: North-Brabant (PNB))

### **CS** Partners:

- Fundacion Ibercivis (IberCivis)
- Knowle West Media Centre LBG (KWMC)

### SMEs:

- Digitalsunray Media GmbH (DSR)
- GISAT S.R.O. (GISAT)
- Hop Ubiquitous SI (HOPU)
- MindEarth
- Moondial GmbH
- Sushi Dev KG (SuhsiDev)

### **Scientific Partners:**

- AIT Austrian Institute of Technology
- Stichting Breda University Of Applied Sciences (BUAS)
- Universidad de la Iglesia de Deusto Entidad Religiosa (DEUSTO)
- University of the West of England (UWE)
- VRVis Zentrum f
  ür Virtual Reality und Visualisierung Forschungs-GmbH (VRVis)