CitiObs: Enhancing Citizen Observatories for healthy, sustainable, resilient and inclusive cities

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on behalf of Nuria Castells (NILU)

CREAF

Learn more here:

HELLENIC REPUBLIC MINISTRY OF DEVELOPMENT AND INVESTMENTS
GENERAL SECRETARIAT FOR RESEARCH AND INNOVATION
European Commission

Project numbers

- **EU contribution**€ 4 991 205
- Grant agreement ID: 101086421
- 14 Participants
- **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 2026
  - 48 months

NILU

IHE DELFT Institute for Water Education under the auspices of UNESCO

CREAF

AirSentinels

DRAXIS

FAB LAB BCN

Iaac

Secure Dimensions
Holistic Geosecurity

National Institute for Public Health and the Environment
Ministry of Health, Welfare and Sport

GÖTEBORGS UNIVERSITET

EUROCITIES

National Ecological Centre of Ukraine

UCD DUBLIN

Universiteit Leiden

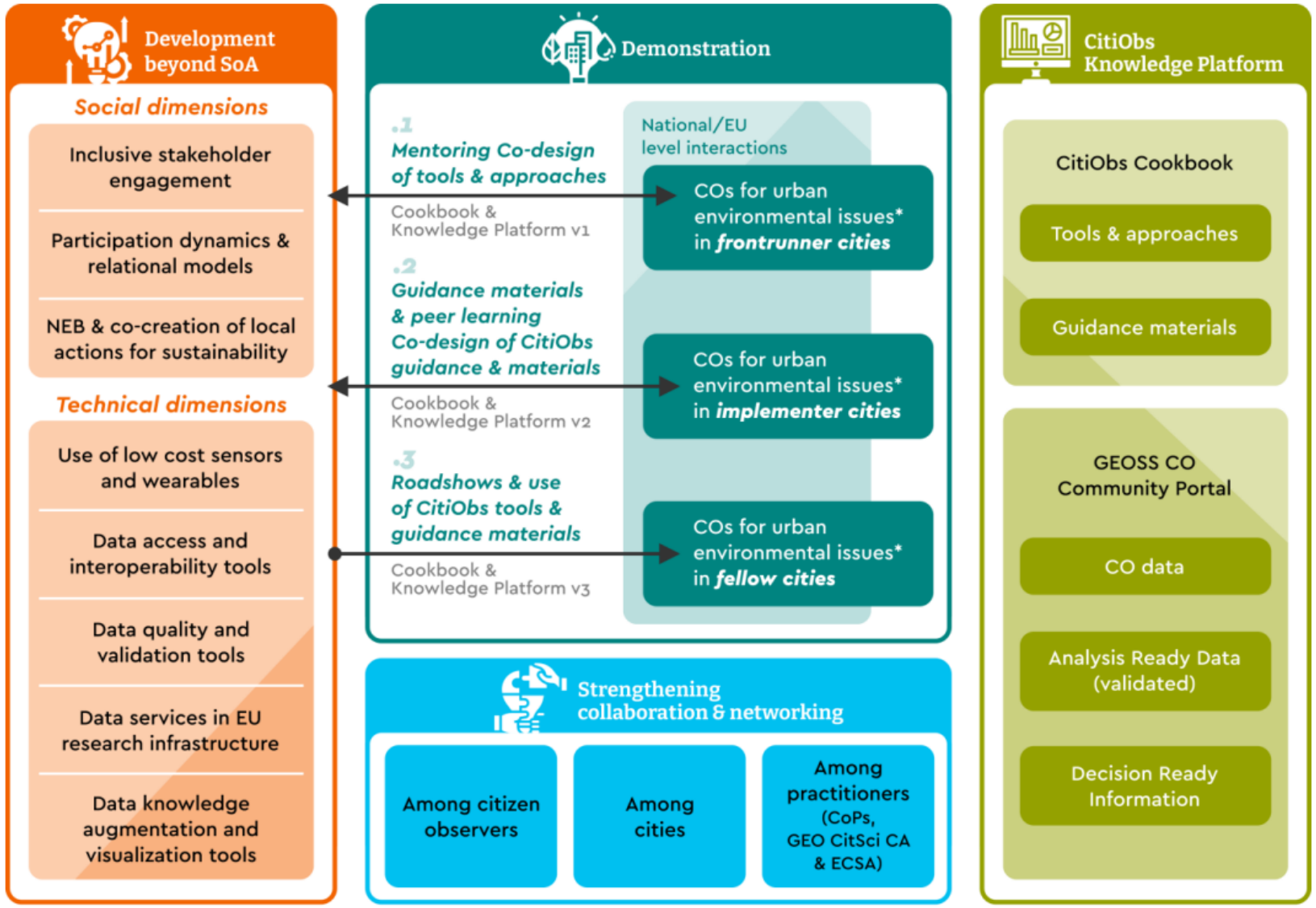
airly

Theme

- **Air quality** is the central theme of the COs engaged in CitiObs
- Sensors and wearables offer great opportunities for citizen participation in environmental monitoring;
  - they suffer from lower data quality than equipment used in authoritative monitoring.
- CitiObs will provide a novel validation approach based on
  - automated remote validation using artificial intelligence (e.g. using redundancy approach) and
  - user annotation of significant events (e.g. malfunction).

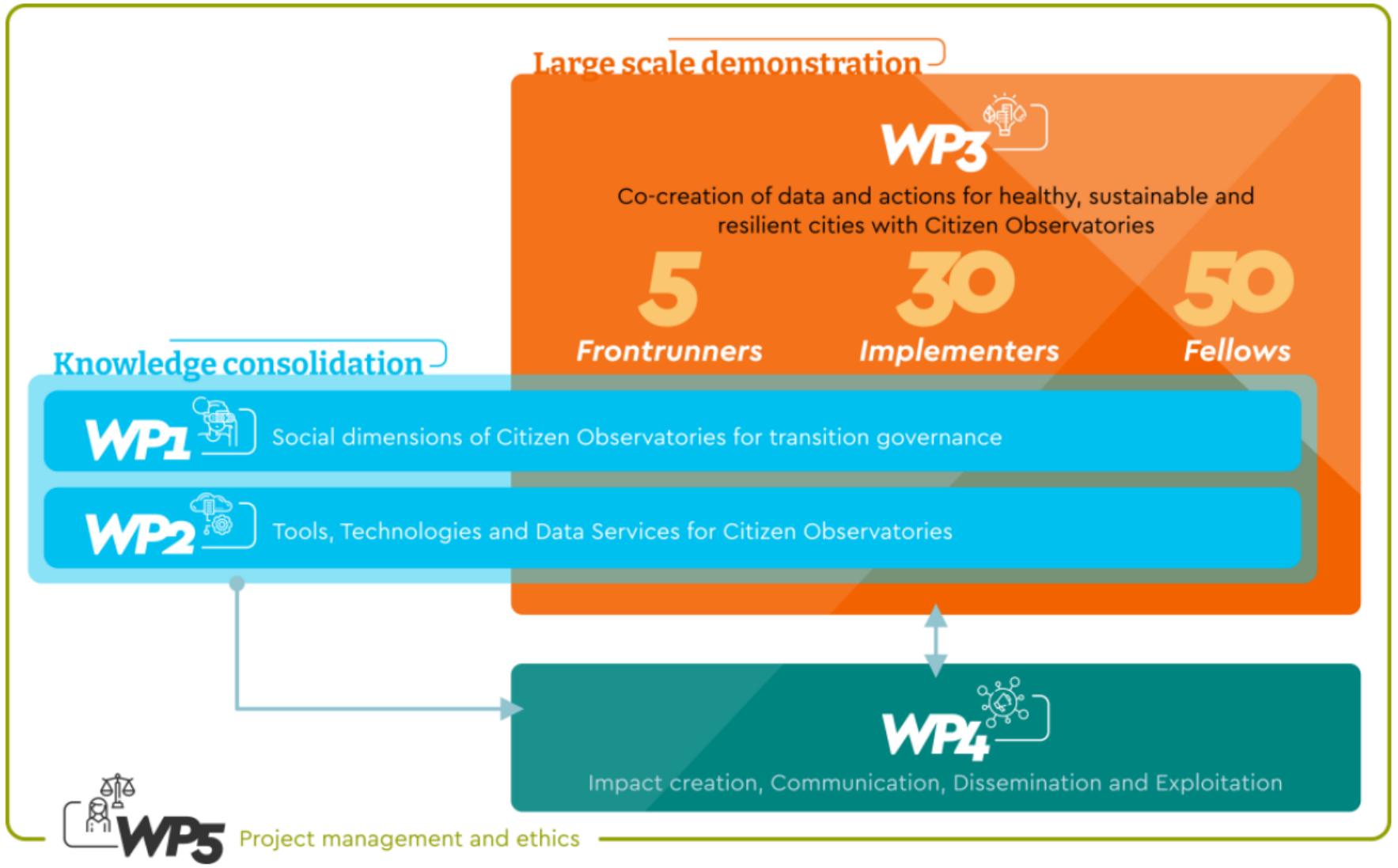
Methodology

- Dimensions:
  - Social (co-creation)
  - Technical (interoperability)
- Demonstrations
  - In cities
  - In phases
- Collaboration
  - CoPs, GEO CitSci
- Sharing Knowledge
  - Cookbook
  - GEOSS CitSci Community portal



I do not want to show a WP diagram

- How many cities the project will directly involve in 3 phases



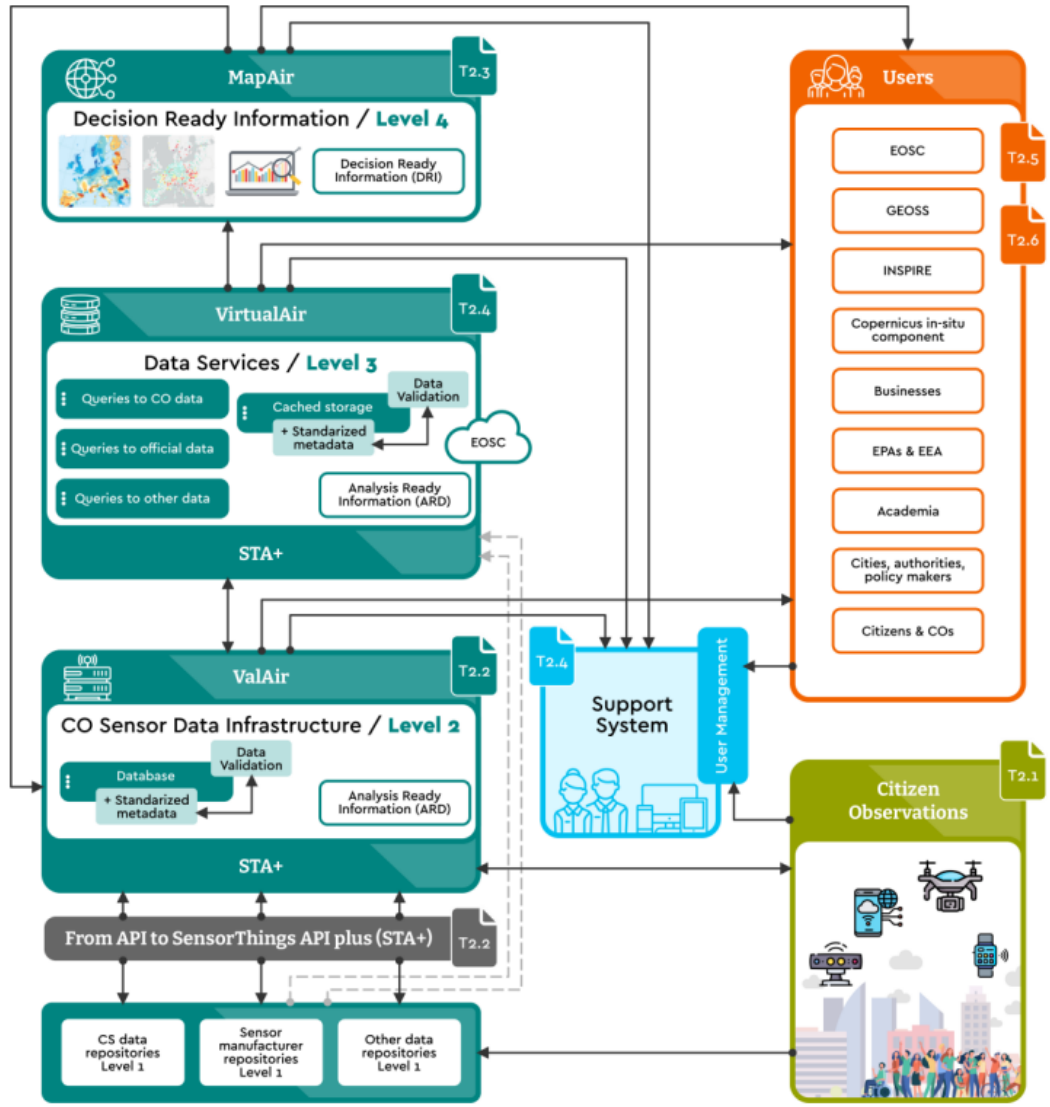
Cities involved:

- Frontrunners (Secured) M7-M42
  - Athens (GR), Barcelona (ES), Dublin (IRL), Rotterdam (NL), Kristiansand (NO)
- Implementers (Known) M16-42
  - in Belgium: Mechelen; in Hungary: Budapest (P); in Finland: Lappeenranta (P) and Helsinki (P); in France: Grenoble (P); in Italy: Milan (P); in the Netherlands: Amsterdam (P) and Leiden (I) and Amersfoort (P), Utrecht (P), and Zwolle (P); in Sweden: Gothenburg (I); in Norway: Oslo (P) and Bergen (P); in Poland: Warsaw (P) and Krakow (P); in Portugal: Porto (P); in Romania: Cluj-Napoca (P); in the Ukraine, Kyiv (I) and Lviv (I).
- Fellows (TBD) M30-48
  - 50 cities who will be invited to participate in knowledge sharing and peer learning with the Implementer cities.
  - Fellow cities will be recruited through an open call

An Architecture based on SensorThings API plus (STA+): a Best Practice proposed in the Cos4Cloud and approved by the Open Geospatial Consortium. Tested in:

Cos4Cloud

eosc



Not much more to say at this point

Stay tuned

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Learn more here:

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