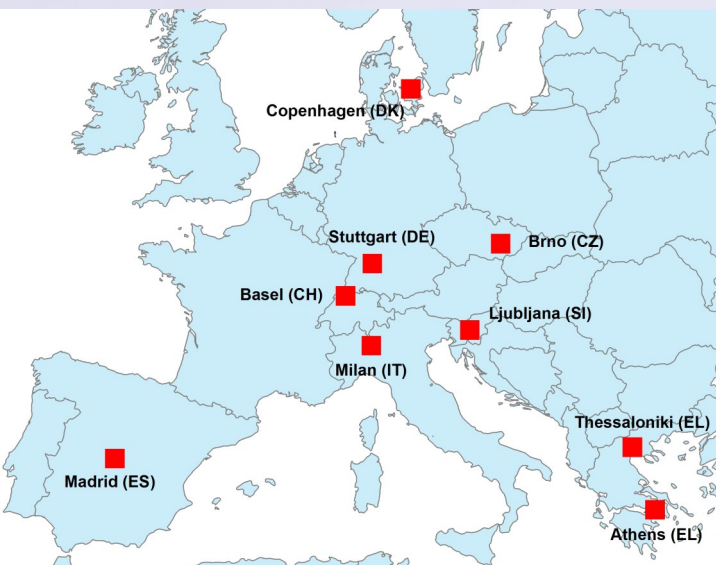


PARTICIPATING CITIES

The ICARUS methodology will be applied in **nine European cities** of variable size. They have been selected carefully to **represent the mix of urban settings around Europe** and cover the whole spectrum of “green urban management”. The selection was made also on **geo-demographic criteria** so that the variable socio-economic dynamics across the EU can be clearly captured and taken into account. The cities involved cover **a wide range of environmental problems as well as of several countermeasures** to reduce air pollution and carbon footprint already adopted or planned.



Project website:

www.icarus2020.eu

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DEVELOPING VISIONS OF GREEN CITIES



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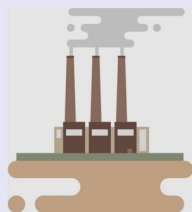
ABOUT ICARUS

ICARUS is a **4-year project** focusing on research areas related to the climate and the environment and their interactions with health and wellbeing.

The main objective of ICARUS is to develop integrated tools and strategies for urban impact assessment in support of **air quality and climate change governance in EU Member States** leading to the design and implementation of appropriate strategies to improve the air quality and reduce the carbon footprint in European cities.



Climate change



Air quality



Public health

This will be achieved through:

- Assessing the impact of current and alternative policies on reducing GHG emissions,
- Evaluating the current contributions of the different pollution sources,
- Proposing technological and non-tech measures to improve air quality,
- Engaging stakeholders and creating life-long partnerships across various sectors,
- Informing and nurturing environment-conscious citizens.

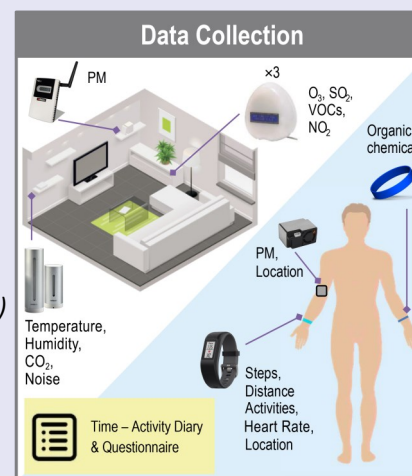
INNOVATION & ENGAGEMENT

Two significant ICARUS actions that engage citizens and stakeholders are:

a) The ICARUS **campaigns** that aim to characterize **urban population exposure to air pollutants by measuring personal exposure**.

Details

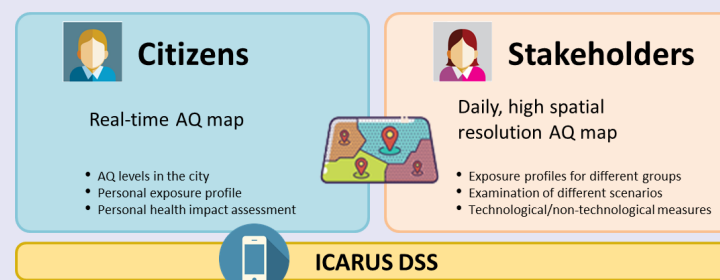
- 9 European cities
- 100 individuals/city
All sociodemographic groups
- 7 days (summer & winter)
- Personal & static sensors
- Questionnaires
- Time activity diaries



b) The **Decision Support System (DSS)** that aims to assist stakeholders in the process of urban impact assessment, taking into account the regulatory context.

The DSS will provide:

- Access to ICARUS-city data through a **cloud-based, flexible and interactive platform**,
- Integration of existing/new models and tools, supporting air quality and GHG policy assessment and
- Estimation of the effects of different policies.



GOALS, EXPECTED RESULTS & IMPACT

ICARUS emphasizes on a) using **emerging modelling techniques** that enable the simulation of different scenarios, b) developing **integrated tools** for urban impact assessment and c) considering both environmental and climate information in different socio-economic settings simultaneously.

The expected results at the end of the project focus on:

- Designing effective policies by capturing different forms of knowledge and social learning and
- Creating decision making tools for the integration of stakeholders and citizens.



The results will help to accomplish ICARUS goals, which are the following:

- Raise public awareness about health impact and **motivate citizens** to become researchers and adopt alternative behaviors,
- Propose **win-win solutions for climate change mitigation and air pollution reduction**,
- Develop visions of **smart, green & healthy cities** with minimum environmental and health impact.