Who we are

The iSCAPE team represents a vast range of disciplines, including engineering, climatology, physics, urban planning, sociology, cultural anthropology, human-centered design, hardware and software development, economy and policy-making.

iSCAPE partners are:

University College Dublin
University of Bologna
University of Surrey
Finnish Meteorological Institute
Hasselt University
Technical University Dortmund
JRC – Joint Research Centre - European Commission - Institute for Environment & Sustainability
Institute for Advanced Architecture of Catalonia - FabLab Barcelona
T6 Ecosystems S.r.l.
Nanoair Solutions S.r.l.
Future Cities Catapult Ltd.
Dublin City Council
Regional Agency for Prevention, Environment and Energy of Emilia-Romagna
European Network of Living Labs
Trinity College Dublin

Find out more

If you are interested in getting updates on iSCAPE and participating in upcoming events, please visit our website or follow us on social media. You can also sign up for our regular newsletter or contact the project coordinator:

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This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 689954.
What is iSCAPE?

Research and innovation action for improving air quality in European cities

iSCAPE is a three-year research and innovation project funded under the European Union’s H2020 programme. To advance knowledge in the field of air quality, iSCAPE has brought together an interdisciplinary team of renowned and experienced researchers, public authorities, business professionals, committed NGO members and citizens.

What is iSCAPE aiming to achieve?

Advanced and integrated passive air pollution remediation strategies

The overall objective is to develop an integrated strategy for air pollution control in European cities that is grounded on evidence-based analysis. The iSCAPE project aims to reduce urban air pollution and the negative impacts of climate change by leveraging sustainable passive control systems, behavioural change initiatives and the living lab approach.

Why now?

The importance of iSCAPE research and innovation activities

According to the World Health Organization (WHO), outdoor air pollution is one of the major challenges of the 21st century, and is attributed to around 3.7 million deaths globally (WHO, 2014). It is estimated that 92% of the world’s population still lives in regions where air pollutants levels are higher than the WHO specified limits (WHO, 2016). While remaining the main environmental health hazard, air pollution also causes a variety of environmental effects such as acid rain, haze, eutrophication, ozone depletion, crop, forest and wildlife damage, and even more so - global climate change. By advancing and integrating passive control remediation strategies, iSCAPE significantly contributes to tackling this global challenge.

References:

How does iSCAPE work?

The iSCAPE concept brings together sustainable passive control systems, behavioural change initiatives and the living lab approach.

iSCAPE provides means to achieve an air pollution free (low carbon) society through the application of new sustainable methods and approaches integrated into urban design and policy guidelines. To achieve this, the iSCAPE concept is based on the following:

What are the expected outcomes and results?

- Scientifically validated results and evidence-based data for urban planners, local policy makers, NGOs, and citizens
- Guidelines and policy recommendations for improving the control of the air pollution and mitigation of the negative impacts of climate change
- Advanced low-cost sensing technologies and the Virtual Living Lab platform facilitating citizen science initiatives
- New ideas and promising concepts to tackle air pollution, co-created with local citizens through the iSCAPE living labs
- Increased collective awareness and knowledge of air pollution and its impact for healthier cities.