



## Welcome to the third iSCAPE newsletter!

This iSCAPE eNewsletter shares information about results and events of the EU research project iSCAPE. The aim is to keep all relevant stakeholders, interested in air quality in urban areas, up to date with the innovative potential of passive control systems, their social, economic and environmental impact as well as their role in the reduction of CO<sub>2</sub>.

In this newsletter you will find updates on:

- iSCAPE News and events
- New iSCAPE deliverables available online

- Journal publications

## iSCAPE News and Events

### iSCAPE Mid-term event - REGISTRATIONS OPEN

Registrations are now open for the iSCAPE Mid-term event "**Urban air quality: designing and implementing effective control strategies**" that will take place in **Bologna** on the **10 May 2018**.

**This event aims to bring together diverse perspectives and create a constituency for air pollution control in European cities that is grounded on evidence-based analysis.**



During the event, **committed practitioners and renowned researchers will share state-of-the-art findings and recommend approaches for improving the control of air pollution and mitigation of the negative impacts of climate change.**

Our panel of experts will **discuss the implications of passive control systems and behavioral change on urban air quality.** They will also identify challenges and opportunities for the low-cost sensor development and sensor application to tackle air pollution.

### Call for Posters

We welcome all participants to contribute to the event and present ongoing efforts aimed at reducing air pollution in the form of a poster.

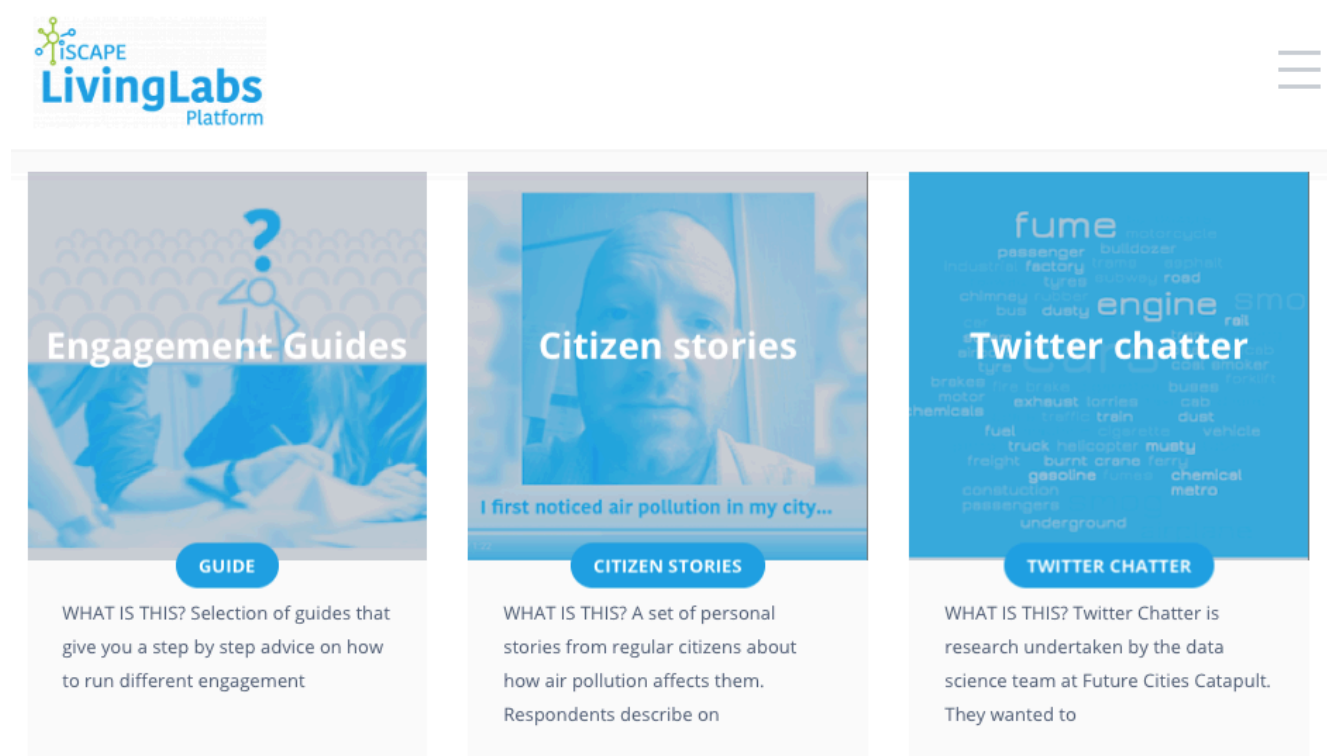
**For more details:** <https://www.iscapeproject.eu/iscape-event-10may2018/>

**To register:** [https://iscape\\_midterm\\_event.eventbrite.com](https://iscape_midterm_event.eventbrite.com)

Participation to the event is free of charge.

## Living Lab resources

**New resources have been added to the iSCAPE Living Labs Platform** - they include engagement toolkits and guides, implementation plans and citizen stories.

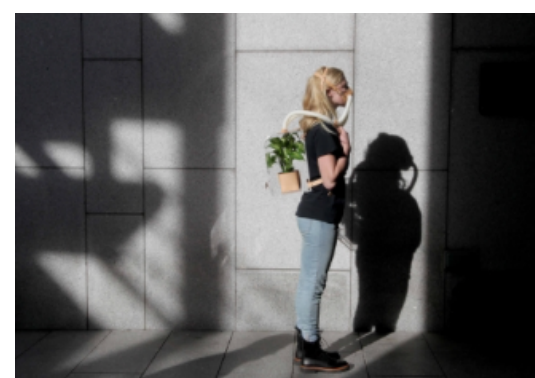


You can find out more and **browse through all resources uploaded** on the the **Living Labs Platform** [here](#)

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## Hack the air: Sparks Hackathon

On the **14 March**, in **Dublin**, members of the iSCAPE team led a highly interactive, hands-on event at the **Science Gallery Dublin** that gave the opportunity to the **young participants to design innovative solutions to air pollution in cities** alongside researchers from the area and Science Gallery Dublin staff.



Some pictures from the event can be found on our [facebook page](#).

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## Air Quality in Guildford - research study





**We are looking for enthusiastic participants to take part in a study that will last for three weeks, starting on 19 March 2018.**

Participation is simple and involves filling in a few questionnaires and registering your trips and activity via the free 'Sparrows' app. In this way we can map your travel behaviour and exposure to air pollution. **More detailed information can be found on the iSCAPE website [here](#).**

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### **“Wandering Trees” in Bottrop**



**The Kick-off meeting to the living lab “Wandering Trees” took place in Bottrop on the 30 January 2018.**

The event formed the beginning of the living lab and the joint design of the Wandering Trees project. Together with the residents, ideas for the design and implementation of the Wandering Trees were collected and exchanged within a World Café, so that they are actively involved in the process.

**Find out more on the iSCAPE website [here](#)**

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### **Using the Smart Citizen Kits in Bologna**

Between the end of January and the beginning of February 2018 the University of Bologna has been testing and using the updated version of the Smart Citizen Kits in a real environment.

The aim to test and calibrate the updated Kits in a city center so that they can become a reliable and easy-to-use tool, for citizens to monitor pollutant levels, as well as a low-cost support for researches in the field of air quality and livability of a city.

**Find out more** on the iSCAPE website [here](#)



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## Joint Conference on the Applications of Air Pollution Meteorology in Austin



Members of the iSCAPE team attended the “20th Joint Conference on the Applications of Air Pollution Meteorology with the A&WMA” (Austin, 7-11 January 2018).

The conference brought together atmospheric scientists, professionals, students, authors, educators, researchers and weather enthusiasts from around the world to share and collaborate ideas about research.

**Find out more** on the iSCAPE website [here](#)

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**New iSCAPE Deliverables available online**

The full reports of the following iSCAPE deliverables can be now downloaded from the iSCAPE project website:

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## Report on the iSCAPE socio-economic impact assessment methodology

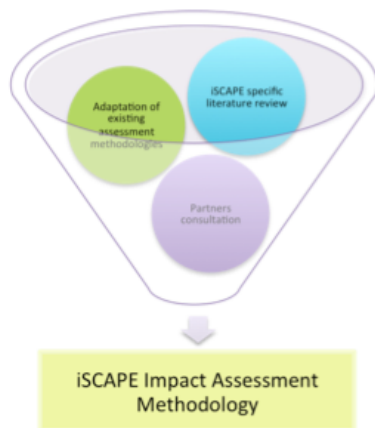


Figure 1 - Development of the impact assessment methodology

This report presents the methodology for the assessment of the socio-economic impacts of the iSCAPE project. The socio-economic assessment methodology is part of the wider goal of developing an approach to evaluate the impact of the iSCAPE outputs and pilots, which include also the analysis of the environmental impacts, developed within other tasks (5.1 and 5.2). The methodology will

map and quantify, as much as possible, the economic and social impact of the iSCAPE project focusing mainly – but not exclusively – on the results of the six foreseen pilots set up to involve and empower local stakeholders and the general public.

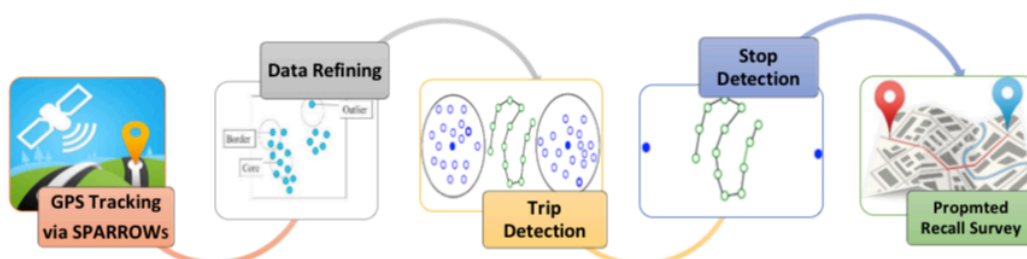
*Partner in charge: T6 ECO*

*Contributing partners: FMI, TUDO*

The full report is now available for download [here](#) (pdf, 1,6MB)

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## Report on Environmental effects of behavioural actions



This report presents a comprehensive methodological framework for WP 4 aimed at evaluating the effects of behavioural interventions through modelling and simulation; and based on that identifies the data requirements that can be combined with activities planned for task 4.1, that defines the need to formulate a methodological framework through which the GPS trajectory data from the citizens of each iSCAPE city are to be analysed.

*Partner in charge: UH*

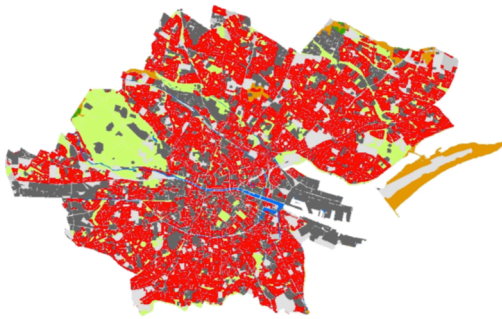
*Contributing partners: Partners involved in WP 4 (UNIBO, T6, FCC, UoS, UCD, TUDO). Contribution of T6 and FCC in providing suggestions for improvement*

of Behavioural intervention. UNIBO, UoS, UCD and TUDO have contributed to provide support for implementing the similar study in their LL.

The full report is now available for download [here](#) (pdf – 13.4MB)

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## Report on solutions at urban level



⬆ Air pollution and the urban heat island effect are consequences of climate change that affect vulnerable population groups in urban areas. To tackle these effects, adequate strategies at the urban level are required. The report outlines tailor-made solutions at the urban level by conducting a SWOT (Strength-Weaknesses-Opportunities-Threats) analysis and a stakeholder survey for the iSCAPE Living Lab (LL)

Cities of Bologna, Bottrop, Dublin, Guildford, Hasselt and Vantaa.

*Partner in charge: TU Dortmund University (TUDO)*

*Contributing partners: University of Surrey (UoS)*

The full report is now available for download [here](#) (pdf – 5.3MB)

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## Publications

### iSCAPE journal publications

Valmassoi, A., Gharbia, S., Stibe, S., Di Sabatino, S., & Pilla, F. (2017). **Future Impacts of the Reforestation Policy on the atmospheric parameters: a sensitivity study over Ireland.** *Procedia Computer Science*, 109, 367-375.

Link for

download: <https://www.sciencedirect.com/science/article/pii/S1877050917310785>

Abhijith, K. V., Kumar, P., Gallagher, J., McNabola, A., Baldauf, R., Pilla, F., ... & Pulvirenti, B. (2017). **Air pollution abatement performances of green infrastructure in open road and built-up street canyon environments—A review.** *Atmospheric Environment*, 162, 71-86.



## iSCAPE in a nutshell

The overall aim of iSCAPE is to develop and evaluate an integrated strategy for air pollution control in European cities grounded on evidence-based analysis. The project will develop the tools required to achieve an air pollution free/low carbon society by addressing air quality and climate change concerns together through the application of new smart and sustainable technologies for integration into urban design and guidelines. The scientists will carry out and measure the results of the research in seven Living Labs in the cities of Bologna, Bottrop, Dublin, Guildford, Hasselt, Vantaa. They will be used to foster innovation and showcase the products made by SMEs and iSCAPE's academic partners, such as low-cost, high-quality air quality monitoring kits. The results of the study will inform policy interventions and implement behavioural change initiatives in urban areas.

iSCAPE started on 1 September 2016 and will run until 31 September 2019.

To find out more about the project and download the iSCAPE leaflet see:

<https://www.iscapeproject.eu/about/>

### The iSCAPE video

The co-ordinator of iSCAPE, the University College Dublin, has produced a short introductory video on the project. Have a look on the iSCAPE website

<https://www.iscapeproject.eu/about/> or directly on youtube:

<https://www.youtube.com/watch?v=WGFUpuYHakY>

Project website: <https://www.iscapeproject.eu>

Follow us on:    



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