Improving the Smart Control of Air Pollution in Europe

Fact Sheet

Project Information

iSCAPE

Grant agreement ID: 689954

Funded under H2020-EU.3.5.1.

Project website

Status
Closed project

Overall budget € 5 850 830

EU contribution € 5 850 828,75

Start date 1 September 2016
End date 30 November 2019

Coordinated by UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN

Ireland

This project is featured in...

RESEARCH*EU MAGAZINE
Increasingly smart, increasingly sustainable: Europe’s cities get an...

Objective
The iSCAPE project aims to integrate and advance the control of air quality and carbon emissions in European cities in the context of climate change through the development of sustainable and passive air pollution remediation strategies, policy interventions and behavioural change initiatives. It will tackle the problem of reducing air pollution at target receptors with an innovative SME-led approach, focusing on the use of “Passive Control Systems” in urban spaces. Improvements in air quality, microclimate and behavioural aspects of urban dwellers will be achieved by applying real-world physical interventions on the urban tissue to alter ventilation rates and dispersion patterns in the selected cities assessed for future climate change scenarios and representative of different cultural&life styles in Europe. Through the approach of Living Labs the team will deploy a network of air quality and meteorological sensors (both stationary and mobile) and evaluate through analysis and a suite of up-to-date numerical modelling the benefits expected from the interventions on a neighbourhood and city-wide scale for several aspects ranging from quantification of pollutant concentration to exposure. iSCAPE encapsulates the concept of “smart cities” by promoting the use of low-cost sensors, engaging citizens in the use of alternative solution processes to environmental problems. iSCAPE will support sustainable urban development by promoting the sharing of results with policy-makers and planners using local test-cases, and providing scientific evidence ready-to-use solutions potentially leading to real-time operational interventions. This integrated approach will include the development and assessment of a framework aimed at changing the mobility behaviour of people by studying processes and dynamics that lead to more resilient, healthy, and sustainable cities, by bringing together theory from urban planning, public policy, urban and environmental sociology and urban geography.

Field of science

/social sciences/economics and business/economics/sustainable economy
/natural sciences/earth and related environmental sciences/environmental sciences/pollution
/engineering and technology/civil engineering/architecture engineering/smart city
/social sciences/political science/public policy

Programme(s)

Topic(s)

Call for proposal

H2020-SC5-2015-two-stage
# Funding Scheme

**RIA - Research and Innovation action**

## Coordinator

<table>
<thead>
<tr>
<th>Institution</th>
<th>Address</th>
<th>Activity type</th>
<th>EU contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN</td>
<td>Belfield, 4 Dublin, Ireland</td>
<td>Higher or Secondary Education Establishments</td>
<td>€ 821 198</td>
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## Participants (14)

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<thead>
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<tr>
<td>ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA</td>
<td>€ 563 105</td>
<td>Higher or Secondary Education Establishments</td>
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| Address | |
|---------||
| Via Zamboni 33, 40126 Bologna | |

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<tr>
<th>UNIVERSITY OF SURREY</th>
<th>EU contribution</th>
<th>Activity type</th>
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<tr>
<td>United Kingdom</td>
<td>€ 664 337,50</td>
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| Address | |
|---------||
| Stag Hill, GU2 7XH Guildford | |

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<td>Finland</td>
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<td>EU Contribution</td>
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<td>UNIVERSITEIT HASSELT</td>
<td>€ 575 200</td>
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<tr>
<td>TECHNISCHE UNIVERSITAT DORTMUND</td>
<td>€ 401 062,50</td>
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<td>JRC - JOINT RESEARCH CENTRE - EUROPEAN COMMISSION</td>
<td>€ 282 200</td>
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<td>INSTITUT D'ARQUITECTURA AVANCADA DE CATALUNYA</td>
<td>€ 545 309,50</td>
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T6 ECOSYSTEMS SRL
Italy
EU contribution
€ 474 125
Address
Via Aureliana 63
00187 Roma
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Website
Contact the organisation

NANOAIR SOLUTIONS S.L.
Spain
EU contribution
€ 175 312,50
Address
Ronda De Sant Pere 40,
Princiapl 2A
08010 Barselona
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Contact the organisation

FUTURE CITIES CATAPULT LIMITED
United Kingdom
EU contribution
€ 510 720
Address
1 Sekforde Street
EC1R 0BE London
Activity type
Research Organisations
Contact the organisation

DUBLIN CITY COUNCIL
Ireland
EU contribution
€ 7 500
Address
Activity type
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<td>AGENZIA REGIONALE PER LA PREVENZIONE, L'AMBIENTE E L'ENERGIA DELL'EMILIA-ROMAGNA</td>
<td>€ 121 250</td>
<td>Research Organisations</td>
<td>Via Po 5, 40139 Bologna</td>
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<tr>
<td>EUROPEAN NETWORK OF LIVING LABS IVZW</td>
<td>€ 185 625</td>
<td>Other</td>
<td>Pleinlaan 9, 1050 Brussel</td>
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<tr>
<td>THE PROVOST, FELLOWS, FOUNDATION SCHOLARS &amp; THE OTHER MEMBERS OF BOARD OF THE COLLEGE OF THE HOLY &amp; UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN</td>
<td>€ 24 883,75</td>
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<td>College Green, 2 Dublin</td>
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Last update: 7 August 2020