Triangulum

Project ID: 646578
Funded under: H2020-EU.3.3.1.3. - Foster European Smart cities and Communities


From 2015-02-01 to 2020-01-31, ongoing project

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>EUR 29 501 430,98</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU contribution:</td>
<td>EUR 25 420 602,30</td>
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<tr>
<td>Coordinated in:</td>
<td>Germany</td>
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<th>Topic(s):</th>
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<tr>
<td>SCC-01-2014 - Smart Cities and Communities solutions integrating energy, transport, ICT sectors through lighthouse (large scale demonstration - first of the kind) projects</td>
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<th>Call for proposal:</th>
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<td>H2020-SCC-2014</td>
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<tr>
<th>Funding scheme:</th>
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<td>IA - Innovation action</td>
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Objective

The Triangulum project will demonstrate how a systems innovation approach based around the European Commission’s SCC Strategic Implementation Plan can drive dynamic smart city development. We will test the SIP across three lighthouse cities: Manchester, Eindhoven and Stavanger, which represent the main typologies of European cities. They will be complemented by our follower cities Prague, Leipzig and Sabadell. This powerful combination reflects an urban population of between 100k and 1,2m inhabitants across six different countries, allowing us to demonstrate successful replication across a wide range of typical urban areas in Europe. Each city has already made significant progress towards the transition of becoming a smart city; developing their own individual approach reflecting specific local circumstances. These inherent strengths will now serve to accelerate the smart city development across proposed demonstration sites within Triangulum. The suite of projects developed will be based around zero/low energy districts, integrated infrastructures and sustainable urban mobility designed to deliver a range of cross-cutting outcomes across different sectors and stakeholders. This will provide the basis to ‘road test’ the SIP and provide recommendations to the Commission on how it could be improved to facilitate wider replication. The Triangulum goals target a series of direct impacts around; reduced energy consumption of buildings, increased use of renewable energies, increased utilisation of electric vehicles, deployment of intelligent energy management technologies and the deployment of an adaptive and dynamic ICT data hub. The design and implementation of innovative Business Models and the activation of citizens as co-creators are core cross-cutting elements to base the technologies in real-world city environments and facilitate replication.

Related information

Report Summaries

Periodic Reporting for period 1 - Triangulum (Triangulum: The Three Point Project / Demonstrate. Disseminate. Replicate.)
Coordinator
FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
HANSASTRASSE 27C
80686 MUNCHEN
Germany

Activity type: Research Organisations
Contact the organisation

Participants
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70174 STUTTGART
Germany

Activity type: Research Organisations
Contact the organisation

UNIVERSITAET STUTTGART
KEPLERSTRASSE 7
70174 STUTTGART
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Activity type: Higher or Secondary Education Establishments
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MANCHESTER CITY COUNCIL
ALBERT SQUARE
M60 2LA MANCHESTER
United Kingdom

Activity type: Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)
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THE MANCHESTER METROPOLITAN UNIVERSITY
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M15 6BH MANCHESTER
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Activity type: Higher or Secondary Education Establishments
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THE UNIVERSITY OF MANCHESTER
OXFORD ROAD
M13 9PL MANCHESTER
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Activity type: Higher or Secondary Education Establishments

Administrative contact: Liz Fay
Tel.: +44 161 306 6000
Contact the organisation

EU contribution: EUR 965 951,56

SIEMENS PLC
SIR WILLIAM SIEMENS SQUARE FARADAY HOUSE FRIMLEY
GU168QD CAMBERLEY
United Kingdom

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

EU contribution: EUR 4 189 725,40

CLICKS AND LINKS LTD
MOSS ROAD 28
SK9 7HZ Alderley Edge
United Kingdom

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

EU contribution: EUR 399 551,25

GEMEENTE EINDHOVEN
STADHUISPLEIN 10
5600 EINDHOVEN
Netherlands

Activity type: Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)
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EU contribution: EUR 1 526 739,42

STICHTING WOONBEDRIJF SWS HHVL
WAL 2
5611 HD EINDHOVEN
Netherlands

Activity type: Other
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EU contribution: EUR 1 941 975

TECHNISCHE UNIVERSITEIT EINDHOVEN
GROENE LOPER 5
5612 EINDHOVEN
Netherlands

Activity type: Higher or Secondary Education Establishments
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EU contribution: EUR 577 756,25
REGGESINGEL 4
7461 BA RIJSSEN
Netherlands

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

**EU contribution:** EUR 2,541,561.05

Koninklijke KPN NV
MAANPLEIN 55
2516 The Hague
Netherlands

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

**EU contribution:** EUR 525,770

Stavanger kommune
Olav Kyrresgate 23
4068 Stavanger
Norway

**Activity type:** Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

**EU contribution:** EUR 3,343,702.50

GREATER STAVANGER ECONOMIC DEVELOPMENT AS
PROFESSOR OLAV HANSSENS VEI 7A
4068 STAVANGER
Norway

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

**EU contribution:** EUR 300,129.38

ROGALAND FYLKESKOMMUNE
ARKITEKT ECKHOFFS GATE 1
4001 STAVANGER
Norway

**Activity type:** Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

**EU contribution:** EUR 1,312,037.50

UNIVERSITETET I STAVANGER
KJELL ARHOLMS GATE 41
4021 STAVANGER
Norway

**Activity type:** Higher or Secondary Education Establishments

**EU contribution:** EUR 1,475,006.25
LYSE AS  
BREIFLATVEIEN 18  
4017 STAVANGER  
Norway

**EU contribution:** EUR 1 313 010,51

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

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INSTITUT PLANOVANI A ROZVOJE HLAVNIHO MESTA PRAHY  
VYSEHRADSKA 57/2077  
128 00 PRAHA  
Czech Republic

**EU contribution:** EUR 355 193,75

**Activity type:** Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Contact the organisation

AJUNTAMENT DE SABADELL  
PL. SANT ROC 1  
08201 SABADELL  
Spain

**EU contribution:** EUR 392 576,79

**Activity type:** Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Contact the organisation

STADT LEIPZIG  
NEUES RATHAUS  
04109 LEIPZIG  
Germany

**EU contribution:** EUR 485 662,50

**Activity type:** Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Contact the organisation

TUV SUD IMMOWERT GMBH  
WESTENDSTRASSE 199  
80686 MUNCHEN  
Germany

**EU contribution:** EUR 197 990,62

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

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