

Triangulum

Project ID: 646578

Funded under: [H2020-EU.3.3.1.3. - Foster European Smart cities and Communities](#)

Triangulum: The Three Point Project / Demonstrate. Disseminate. Replicate.

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

Project details

Total cost: EUR 29 501 430,98	Topic(s): SCC-01-2014 - Smart Cities and Communities solutions integrating energy, transport, ICT sectors through lighthouse (large scale demonstration - first of the kind) projects
EU contribution: EUR 25 420 602,30	Call for proposal: H2020-SCC-2014 See other projects for this call
Coordinated in: Germany	Funding scheme: IA - Innovation action

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.)
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Coordinator

FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
HANSASTRASSE 27C
80686 MUNCHEN
Germany

Germany

EU contribution: EUR 1 159
307,19

Activity type: Research Organisations

[Contact the organisation](#)

Participants

STEINBEIS INNOVATION GGMBH
WILLI BLEICHER STRASSE 19
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Germany

EU contribution: EUR 608 625

Activity type: Research Organisations

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UNIVERSITAET STUTTGART
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Germany

EU contribution: EUR 503 125

Activity type: Higher or Secondary Education Establishments

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MANCHESTER CITY COUNCIL
ALBERT SQUARE
M60 2LA MANCHESTER
United Kingdom

United Kingdom

EU contribution: EUR 1 013
733,50

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

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THE MANCHESTER METROPOLITAN UNIVERSITY
OXFORD ROAD ALL SAINTS BUILDING
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United Kingdom

EU contribution: EUR 291
471,88

Activity type: Higher or Secondary Education Establishments

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THE UNIVERSITY OF MANCHESTER
OXFORD ROAD
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United Kingdom

EU contribution: EUR 965
951,56

Activity type: Higher or Secondary Education Establishments

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

EU contribution: EUR 4 189
725,40

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

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CLICKS AND LINKS LTD
MOSS ROAD 28
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United Kingdom

EU contribution: EUR 399
551,25

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

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GEMEENTE EINDHOVEN
STADHUISPLEIN 10
5600 EINDHOVEN
Netherlands

Netherlands

EU contribution: EUR 1 526
739,42

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

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STICHTING WOONBEDRIJF SWS HHVL
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5611 HD EINDHOVEN
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Netherlands

EU contribution: EUR 1 941 975

Activity type: Other

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TECHNISCHE UNIVERSITEIT EINDHOVEN
GROENE LOPER 5
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Netherlands

Netherlands

EU contribution: EUR 577
756,25

Activity type: Higher or Secondary Education Establishments

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STRIJP S ONTWIKKELING BV
REGGESINGEL 4
7461 BA RIJSSEN
Netherlands

Netherlands

EU contribution: EUR 2 541
561,05

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

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Koninklijke KPN NV
MAANPLEIN 55
2516 The Hague
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Netherlands

EU contribution: EUR 525 770

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

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Stavanger kommune
Olav Kyrresgate 23
4068 Stavanger
Norway

Norway

EU contribution: EUR 3 343
702,50

[See on map](#)

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

[Contact the organisation](#)

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

Norway

EU contribution: EUR 300
129,38

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

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ROGALAND FYLKESKOMMUNE
ARKITEKT ECKHOFFS GATE 1
4001 STAVANGER
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Norway

EU contribution: EUR 1 312
037,50

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

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UNIVERSITETET I STAVANGER
KJELL ARHOLMS GATE 41
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Norway

EU contribution: EUR 1 475
006,25

Activity type: Higher or Secondary Education Establishments

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LYSE AS
BREIFLATVEIEN 18
4017 STAVANGER
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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

Czech



EU contribution: EUR 355
193,75

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

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AJUNTAMENT DE SABADELL
PL. SANT ROC 1
08201 SABADELL
Spain

Spain

EU contribution: EUR 392
576,79

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

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STADT LEIPZIG
NEUES RATHAUS
04109 LEIPZIG
Germany

Germany

EU contribution: EUR 485
662,50

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

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TUV SUD IMMOWERT GMBH
WESTENDSTRASSE 199
80686 MUNCHEN
Germany

Germany

EU contribution: EUR 197
990,62

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

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