

REPLICATE

Project ID: 691735

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

Renaissance of Places with Innovative Citizenship and TEchnolgy

From 2016-02-01 to 2021-01-31, ongoing project | [REPLICATE Website](#)

Project details

Total cost: EUR 29 250 563,53	Topic(s): SCC-01-2015 - Smart Cities and Communities solutions integrating energy, transport, ICT sectors through lighthouse (large scale demonstration - first of the kind) projects
EU contribution: EUR 24 965 263,09	Call for proposal: H2020-SCC-2015 See other projects for this call
Coordinated in: Spain	Funding scheme: IA - Innovation action

Objective

The objective of REPLICATE is to demonstrate Smart City technologies in energy, transport and ICT in districts in San Sebastia, Florence and Bristol addressing urban complexity and generate replication plans in other districts and in follower cities of Essen, Nilufer and Lausanne.

Main challenges for cities are to increase the overall energy efficiency, to exploit better local resources in terms of energy supply and demand side measures. For successful implementation of Smart City technologies two main elements are considered:

- Cities are the customer: considering local specificities in integrated urban plans and the need to develop monitoring systems to extract conclusions for replication.
- Solutions must be replicable, interoperable and scalable.

REPLICATE considers also the complexity of cities, the tangible benefits for citizens, the financial mechanisms and the new business models. The 3 pillars implemented in the pilots with the engagement of citizens, private actors and authorities are:

- Low energy districts: cost-effective retrofitting, new constructive techniques with optimal energy behaviour and high enthalpy RES in residential buildings. Include also efficient measures in public and residential buildings: ICT tools, PV, shading or natural ventilation; district heating is demonstrated hybridising local biomass, recovered heat and natural gas.
- Integrated Infrastructure: deployment of ICT architecture, from internet of things to applications, to integrate the solutions in different areas. Smart Grids on electricity distribution network to address the new challenges, connecting all users: consumers, producers, aggregators and municipality. Intelligent lighting will allow automated regulation of the amount of light and integration of IP services via PLC.
- Urban mobility: sustainable and smart urban bus service, electric urban bike transport, 3-wheeler delivery and transport services, deployment of EV charging infrastructures and ICT tools.

Related information

Report Summaries

[Periodic Reporting for period 1 - REPLICATE \(REnaissance of Places with Innovative Citizenship and TEchnolgy\)](#)

Coordinator

AYUNTAMIENTO DE DONOSTIA SAN SEBASTIAN
CALLE IGENTEA 1
20003 SAN SEBASTIAN
Spain

Spain

EU contribution: EUR 1 676 625

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

[Contact the organisation](#)

Participants

FOMENTO DE SAN SEBASTIAN SA
CALLE CAMINO 2
20004 SAN SEBASTIAN
Spain

Spain

EU contribution: EUR 2 415 080

Activity type: Other

[Contact the organisation](#)

COMUNE DI FIRENZE
PIAZZA SIGNORIA 1
50122 FIRENZE
Italy

Italy

EU contribution: EUR 4 784
462,10

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

[Contact the organisation](#)

BRISTOL CITY COUNCIL
THE COUNCIL HOUSE COLLEGE GREEN
BS1 5TR BRISTOL
United Kingdom

United Kingdom

EU contribution: EUR 3 376 450

[See on map](#)

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

[Contact the organisation](#)

STADT ESSEN
PORSCHEPLATZ 1
45121 ESSEN
Germany

Germany

EU contribution: EUR 174 300

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

[Contact the organisation](#)

NILUFER BELEDIYE BASKANLIGI
IHSANIYE MAH CUMHURİYET MEYDANI 2A 2B BLOCK
16130 BURSA
Turkey

Turkey

EU contribution: EUR 52
722,50

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

[Contact the organisation](#)

ADMINISTRATION COMMUNALE DE LA VILLE DE LAUSANNE
PLACE DE LA PALAUD
1002 LAUSANNE
Switzerland

Switzerland

EU contribution: EUR 0

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

[Contact the organisation](#)

ANGEL IGLESIAS S.A. - IKUSI  Participation ended

PASEO MIRAMON 170
20009 DONOSTIA SAN SEBASTIAN
Spain

Spain

EU contribution: EUR 0

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

[Contact the organisation](#)

EUROHELP CONSULTING SL
PLAZA PINARES 1, 3A PLANTA
20001 DONOSTIA SAN SEBASTIAN
Spain

Spain

EU contribution: EUR 328 580

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

[Contact the organisation](#)

LEYCOLAN S.A.L.
PASEO MIKELETEGUI, 1-3, 1º
20009 SAN SEBASTIAN
Spain

Spain

EU contribution: EUR 269
440,50

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

[Contact the organisation](#)

FUNDACION TECNALIA RESEARCH & INNOVATION
PARQUE CIENTIFICO Y TECNOLOGICO DE GIPUZKOA PASEO MIKELETEGI 2
20009 DONOSTIA SAN SEBASTIAN
Spain

Spain

EU contribution: EUR 935 000

Activity type: Research Organisations

[Contact the organisation](#)

EUSKALTEL SA
PARQUE TECNOLOGICO EDIFICIO 809
48160 DERIO
Spain

Spain

EU contribution: EUR 229
993,75

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

[Contact the organisation](#)

COMPANIA DEL TRANVIA DE SAN SEBASTIAN SA - CTSS
CALLE FERNANDO SASIAIN 7
20015 SAN SEBASTIAN
Spain

Spain

EU contribution: EUR 1 085
962,50

[See on map](#)

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

[Contact the organisation](#)

CONSIGLIO NAZIONALE DELLE RICERCHE
PIAZZALE ALDO MORO 7
00185 ROMA
Italy

Italy

EU contribution: EUR 231
668,75

Activity type: Research Organisations

[Contact the organisation](#)

E-DISTRIBUZIONE SPA
VIA OMBRONE 2
00198 ROMA
Italy

Italy

EU contribution: EUR 947 625

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

[Contact the organisation](#)

MATHEMA SRL
VIA TORCICODA 29
50142 FIRENZE
Italy

Italy

EU contribution: EUR 119 000

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

[Contact the organisation](#)

SPES CONSULTING
VIA AL PONTE REALE 2/16
16124 GENOVA
Italy

Italy

EU contribution: EUR 399 875

[See on map](#)

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

[Contact the organisation](#)

TELECOM ITALIA SPA
VIA GAETANO NEGRI 1
20123 MILANO
Italy

Italy

EU contribution: EUR 248 500

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

[Contact the organisation](#)

UNIVERSITA DEGLI STUDI DI FIRENZE
Piazza San Marco 4
50121 Florence
Italy

Italy

EU contribution: EUR 673 000

Activity type: Higher or Secondary Education Establishments

[Contact the organisation](#)

Thales Italia spa
VIA PROVINCIALE LUCCHESI 33
50019 SESTO FIORENTINO
Italy

Italy

EU contribution: EUR 337 750

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

[Contact the organisation](#)

ZABALA INNOVATION CONSULTING, S.A.
PASEO SANTXIKI 3 BIS
31192 MUTILVA ALTA NAVARRA
Spain

Spain

EU contribution: EUR 132 125

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

[Contact the organisation](#)

TECHNOMAR GMBH
WIDENMAYERSTRASSE 46A
80538 MUNCHEN
Germany

Germany

EU contribution: EUR 250 775

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

[Contact the organisation](#)

UNIVERSITY OF BRISTOL
TYNDALL AVENUE SENATE HOUSE
BS8 1TH BRISTOL
United Kingdom

United Kingdom

EU contribution: EUR 588
556,25

Activity type: Higher or Secondary Education Establishments

[Contact the organisation](#)

THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD
WELLINGTON SQUARE UNIVERSITY OFFICES
OX1 2JD OXFORD
United Kingdom

United Kingdom

EU contribution: EUR 262
636,25

Activity type: Higher or Secondary Education Establishments

[Contact the organisation](#)

BRISTOLISOPEN LIMITED
SENATE HOUSE TYNDALL AVENUE
BS8 1TH BRISTOL
United Kingdom

United Kingdom

EU contribution: EUR 179
372,38

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

[Contact the organisation](#)

ZEETTA NETWORKS LIMITED
18 CHANTRY ROAD
BS8 2QD BRISTOL
United Kingdom

United Kingdom

EU contribution: EUR 297
591,88

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

[Contact the organisation](#)

KNOWLE WEST MEDIA CENTRE LBG
LEINSTER AVENUE LEINSTER HOUSE KNOWLE
BS4 1NL BRISTOL
United Kingdom

United Kingdom

EU contribution: EUR 371 250

Activity type: Other

[Contact the organisation](#)

TOSHIBA RESEARCH EUROPE LIMITED
MILTON ROAD 208 CAMBRIDGE SCIENCE PARK
CB4 0GZ CAMBRIDGE
United Kingdom

United Kingdom

EU contribution: EUR 79
604,88

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

[Contact the organisation](#)

ROUTE MONKEY LTD
2A, HOUSTON INTERCHANGE BUSINESS PAR, LIVINGSTON, WEST LoTHIAN
EH545DW LIVINGSTON
United Kingdom

United Kingdom

EU contribution: EUR 267 750

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

[Contact the organisation](#)

ESOTERIX SYSTEM LTD
14 HIGHFIELD GROVE
BS7 8QH BRISTOL
United Kingdom

United Kingdom

EU contribution: EUR 316 750

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

[Contact the organisation](#)

NEC EUROPE LTD
WEST END ROAD ATHENE ODYSSEY BUSINESS PARK SOUTH RUISLIP
HA4 6QE LONDON
United Kingdom

United Kingdom

EU contribution: EUR 428
572,25

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

[Contact the organisation](#)

CO-WHEELS CAR CLUB COMMUNITY INTEREST COMPANY
3A SUNDERLAND RD GILESGATE
DH1 2LH DURHAM
United Kingdom

United Kingdom

EU contribution: EUR 417 200

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

[Contact the organisation](#)

UNIVERSITY OF THE WEST OF ENGLAND, BRISTOL
Frenchay Campus, Coldharbour Lane
BS161QY BRISTOL
United Kingdom

United Kingdom

EU contribution: EUR 239
487,50

Activity type: Higher or Secondary Education Establishments

[Contact the organisation](#)

FUNDACION ESADE
AVENIDA PEDRALBES 60-62
08034 BARCELONA
Spain

Spain

EU contribution: EUR 299 000

Activity type: Higher or Secondary Education Establishments

[Contact the organisation](#)

SISTELEC SOLUCIONES DE TELECOMUNICACION, S.L.
PEDRO I, 6 BJ
31007 PAMPLONA
Spain

Spain

EU contribution: EUR 286 748

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

[Contact the organisation](#)

GIROA SOCIEDAD ANONIMA
CAMINO PORTUETXE 53A oficina 201
20018 SAN SEBASTIAN
Spain

Spain

EU contribution: EUR 1 635
163,60

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

[Contact the organisation](#)

IKUSI SL
PASEO DE MIRAMON 170
20014 SAN SEBASTIAN
Spain

Spain

EU contribution: EUR 308
393,75

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

[Contact the organisation](#)

DE SURDURULEBILIR ENERJI VE INSAAT SANAYI TICARET LIMITED SIRKETI
BARBAROS MAH. TOPHANELIOGLU CAD. MURAT SITESI NO 74 I BLOK D 18
34662 USKUDAR
Turkey

Turkey

EU contribution: EUR 121
577,50

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

[Contact the organisation](#)

THE UNIVERSITY OF EXETER
THE QUEEN S DRIVE NORTHCOTE HOUSE
EX4 4QJ EXETER
United Kingdom

United Kingdom

EU contribution: EUR 196
673,75

Activity type: Higher or Secondary Education Establishments

[Contact the organisation](#)

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