



Project No. 691735

REPLICATE PROJECT

Renaissance of Places with Innovative
Citizenship And Technology



This Project has received funding from the
European Union's Horizon 2020 research and
innovation program under Grant Agreement No.
691735

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REnaissance of PLaces with Innovative Citizenship And Technology

Project no. 691735

H2020–SCC–2015 Smart Cities and Communities

Innovation Action (IA)

D1 1.7 ECE/SEE WORKSHOPS

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1. EXECUTIVE SUMMARY

The main objective of this deliverable is to report on the workshops and activities carried out to disseminate the project at European level.

Main goals of those workshops and activities are:

- to present the project and disseminate its implementations
- to showcase and exchange the ideas and good practices
- to discuss the project results
- to spread the outcomes and implementations

The various activities held, gathered European institutions, authorities, city representatives, industry, civil society and medias. REPLICATE through its cities and partners is member of different European networks that also contribute to the connections with different cities and the participation on joint events has also assured the interaction. The participation and organization of different events has conducted to maximize the impact of the project.

In that sense this document describes the different events, study visits, workshops and internal meetings and provides a holistic insight about the covered themes, involved stakeholders and participants as well as a brief overview about the outcomes and results generated.

The work described in this document will serve for the further exploitation of the public project results. This document describes the participation in events during the first three years of the project, all the partners will continue joining and participating actively in workshops and events in the future in order to contribute to the dissemination and communication to achieve the objectives described above.

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2. REPLICATE

The main objective of REPLICATE project is the development and validation in three lighthouse cities (**San Sebastián** – Spain, **Florence** – Italy and **Bristol** – UK) of a comprehensive and sustainable City Business Model to enhance the transition process to a smart city in the areas of the energy efficiency, sustainable mobility and ICT/Infrastructure. This will accelerate the deployment of innovative technologies; organizational and economic solutions to significantly increase resource and energy efficiency improve the sustainability of urban transport and drastically reduce greenhouse gas emissions in urban areas.

REPLICATE project aims to increase the quality of life for citizens across Europe by demonstrating the impact of innovative technologies used to co-create smart city services with citizens, and prove the optimal process for replicating successes within cities and across cities.

The Business Models that are being tested through large scale demonstrators at the three cities are approached with an integrated planning through a co-productive vision, involving citizens and cities' stakeholders, providing integrated viable solutions to existing challenges in urban areas and to procure sustainable services. Sustainability of the solutions is fostered in three areas: economic and environmental and finally, fostering transparency in the public management.

In addition, the Model features the replicability of the solutions and their scale up in the entire lighthouse cities and in follower cities, particularly in three follower cities (**Essen** – Germany, **Laussane** – Switzerland and **Nilüfer**–Turkey) that are involved in the project and therefore, have access to know-how and results achieved on the project so they can apply the developed model. At the moment, there are 2 observer cities, Guanzhou (China) and Bogota (Colombia).



3. INTRODUCTION

3.1 Relation to Other Project Documents

The definition of working procedures under REPLICATE framework is essential for assuring an effective project management and achievement of the project goals. Among other documents, the following high-level documents have been approved that will serve as guideline to the activities to carry out. Those documents are; Project Management Plan, District Management plan and Communication Plan.

All those documents are complying with the contract with the EU (Grant Agreement) including its Annexes, and by the Consortium Agreement (CA).

3.2 Reference documents

This document is based in the following projects level documents:

Ref.	Title	Description
REPLICATE Grant Agreement signed 240713.pdf	Grant Agreement	Grant Agreement no. 691735
DoA REPLICATE (691735)	REPLICATE Annex 1 – DoA to the GA	Description of the Action
REPLICATE Consortium agreement signed December 2015 (7 th December version)	Consortium Agreement	REPLICATE project – Consortium Agreement
REPLICATE Project Management Plan	D1.1 Project Management Plan (v.1) (29/04/2016)	REPLICATE Project Management Plan
REPLICATE District Management Plans	D1.4 District Management Plan San Sebastian D1.5 District Management Plan Florence D1.6 District Management Plan Bristol	REPLICATE District Management Plans

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REPLICATE Communication Plan	D11.1 Communication Plan	REPLICATE Communication Plan
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Where there are contradictions, the documents listed above supersede this deliverable. The Grant Agreement is the contract with the European Commission so takes precedence over all other documents.

3.3 Abbreviations list

AAAI	Association for the Advancement of Artificial Intelligence
ACBA	Agglomeration Cote Basque-Adour
ACLIMA	Asociación Cluster de Industrias de Medio Ambiente de Euskadi
AI	Artificial intelligence
ARAB	Arabian
AT	Austria
BCC	Bristol City Council
BE	Belgium
C40	C40 Cities Climate Leadership Group
CA	Consortium Agreement
CCTV	Closed-circuit television
CEOs	Chief Executive Officers
CH	Confoederatio Helvetica
C-level	Chief-level
CO	Confidential
CTOs	Chief Technology Officers
CZ	Czech Republic
DBUS	DONOSTIABUS
DG	Directorate-General
DG Connect	Directorate-General for Communications Networks, Content and Technology
DG ENER	Directorate-General for Energy
DG MOVE	Directorate-General for Mobility and Transport
DG Regio	The Directorate-General for Regional and Urban Policy
DH	District Heating
DLD	Digital lifestyle device



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DoA	Annex I–Description of the Action
e.g.	for example
EAI	European Alliance for Innovation
EASME	Executive Agency for Small and Medium–sized Enterprises
E–bikes	Electric Bikes
EC	European Commission
ECE	Economic Commission for Europe – of the United Nations
Ecohome	Ecologically sensitive home
EEA	European Energy Award
EIP	European Innovation Partnership
EL	Greece
EMA	Energy and Managing Authorities
ERRIN	European Regions Research and Innovative Network
ES	Spain
ESADE	Escuela Superior de Administración y Dirección de Empresas
etc.	et cetera
EU	European Union
EU–GUGLE	European cities serving as Green Urban Gate towards Leadership in sustainable Energy
EUSEW	European Sustainable Energy Week
EV	Electric Vehicle
EXCOM	Executive Committee
EXPO	Exposition
FI	Finland
FP7	Framework Program 7
FR	France
FSS	Fomento San Sebastian
GA	Grant Agreement
GDC	Green Digital Charter
GDP	Gross domestic product
H2020	Horizon 2020
IA	Innovation Action
ICLEI	International Council for Local Environmental initiatives
ICT	Information and Communication Technology
IFEMA	Institucion Ferial de Madrid
INEA	Innovation and Networks Executive Agency
IoT	Internet of Things



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IoTSCW	Internet of Things Solutions World Congress
IT	Information Technology
KM4city	Knowledge Model for City
KPIs	Key Performance Indicators
KWMC	Knowle West Media Centre
LATAM	Latin American
LV	Latvia
MATELEC	International Trade Fair Electrical and Electronics Industry
MobiQuitous	Mobile and Ubiquitous Systems: Computing, Networking and Services
MODLE	Mobility on Demand Laboratory Environment
MP	Member of Parliament
MT	Malta
NEC	Nippon Electronic Corporation
NetOS	Networks Operating System
NGOs	Non-Governmental Organizations
NL	Netherlands
PC	Project Coordinator
PL	Pilot Leader
PL	Poland
PMP	Project Management Plan
PT	Portugal
PU	Public
Q&A	Questions and Answers
REPLICATE	Renaissance of Places with Innovative Citizenship And Technology
RO	Romania
SBSC	Stockholm Building Sustainability Congress
SC	Smart Cities
SCC	Smart Cities and Communities
SCEWC	Smart City Expo World Congress
SCGP	Smart City Guidance Package
SCIS	Smart Cities Information System
SDS	Software-Defined Networking
SE	Sweden
SI	Slovenia
SK	Slovakia
SMEs	Small and Medium Enterprises

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SCP	Smart City Paltform
TC	Technical Coordinator
TECH	Technology and Entrepreneurship Center at Harvard
UK	United Kingdom
UniFi	University of Florence
USA	United States of America
WP	Work Package
WPL	Work Package Leader

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4. DELIVERABLE DESCRIPTION

The aim of this deliverable is to describe and explain the workshops and events carried out under the REPLICATE project for communicating and disseminating the project at international level. Thanks to the dissemination activities the outcomes of the different implementations are communicated so the project and its partners contribute on the replication potential in other European cities.

The following sections are described under the present document:

Section 1: Executive Summary, describes the purpose of the document and the different activities included in the following points.

Section 2: REPLICATE. General information about the project is described under this section.

Section 3: Introduction. Reference to other project documents is described under this section.

Section 4: Deliverable Description. This section includes the description of the different sections.

Section 5: Events. The events where the project has been present are included. This section describes the active participation of the different partners in communication and dissemination activities.

Section 6: Organization of Study Visits. The study visits where the project outcomes are presented are described under this section.

Section 7: Workshops with Observer Cities. Apart from lighthouse and follower cities the project has the observer cities which can exchange experiences and learn about the project. The workshops with these cities will be presented.

Section 8: Project Consortium Official Meetings. The most important project meetings are presented in this section due to the impact on the dissemination of the outcomes that these meetings have.

Section 9: Innovations, Impacts, Scalability. Main impacts about the events included in the document are described under this section.

Section 10: Conclusions. Conclusions about the different activities are included in this section.

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5. EVENTS

The communication and dissemination of the project is key to promote its visibility and its replication. Among the different activities focused on the communication and dissemination, the consortium showcases the good practices at European level with the aim of spreading the outcomes and contributing to the mentioned replication.

The project partners contribute to these goals organizing and participating in different events. Event is the common term used in this document for workshops, conferences, summits etc. in order to present and share ideas, results, or fostering any communication between the project partners and other parties outside. The events presented in this document were oriented to authorities, industry, civil society and/or medias representatives. Not only the organization but also the participation conducts to the dissemination and it is also important to highlight that also the participation in some events involves some kind of organization.

The effort done by the project partners in terms of participating in different events and showcasing the implementations of the project has been big and results are being successful. The deliverable reflects this effort done both in joint events and also in specific activities held by the lighthouse cities or partners.

Moreover, all the activities are promoted in the medias to increase the impact and to reach a critical mass. Depending on the event the dissemination is done through the project Twitter and Web Page or different communication tools used by each city or partner which include Web Pages, social media, newspapers and also radio or TV.

This chapter includes various conferences, congresses, summits, exhibitions, etc. dealing with innovative and creative solutions for a smart city. At the forefront of these events are topics that are leading to a smart city of the future. So many of these events are about sustainability in the use of energy, in mobility or in the use of the ICTs. It will showcase innovative solutions and concepts for cities and the environment, and how to integrate all stakeholders from industry, administrations to citizens in an intelligent way. Particularly important at these events is the exchange of information or the sharing of knowledge between the cities and other parties as well as the establishment of networks.

In order to list these events, first, events promoted or in very close relation to European institutions will be presented and afterwards other events related to smart cities, energy efficiency, mobility and/or ICT/infrastructures.

Here below the list of the different activities:

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5.1 EC Vice-president Maroš Šefčovič visit organization

5.1.1 Background, introduction

Maroš Šefčovič, Vice-President of the European Commission and responsible for the Union Energy project team, visited the lighthouse city of San Sebastián, and coordinator of Replicate lighthouse project.

5.1.2 Set up and Workshop organization

The visit was organized by Fomento San Sebastián as project coordinator and included a visit to the Urumea Riverside District where the main implementations of Replicate project are being deployed.

5.1.3 Summary of Workshop results / expected results

The development of the project in the city of San Sebastián was rated very well by the Vice President of the EU and the head of Energy Affairs, as it was placed within the framework of the urban policies of sustainable urban development. It was an excellent opportunity to receive direct feedback both from European and also to share conclusions with European and regional institutions as well as to communicate about the different actions carried out, and encourage the San Sebastian consortium partners to continue working on the successful development of the project.

5.1.4 List of participants / Participants to be invited

Together with the Vice President of the EU and the head of Energy Affairs, the Councillor for Economic Development and Infrastructure of the Basque Government, and the Mayor and Vice-Mayor of San Sebastian took part. The European Affairs Director of the Basque Government, the Economic Promotion Councillor, the San Sebastian Development Manager, the DBUS Manager, the General Director of Tecnalia, as well as those responsible for Amenabar and Campezo who are working on the development of the Txomin Enea neighbourhood also participated.

Location: San Sebastián (Spain)

Time schedule: 17th March 2017



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Picture 1. EC Vice-president Maroš Šefčovič's visit to Lighthouse city San Sebastian

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5.2 EIP–SCC General Assembly and Action Clusters

5.2.1 Background, introduction

The EIP–SCC (European Innovation Partnership on Smart Cities and Communities) is an initiative supported by the European Commission bringing together cities, industry, SMEs, banks, research and other smart city actors. It consists of a High–Level Group and the Market Place. One of the main objectives of this initiative is to support networking, partnering accumulates knowledge and facilitates exchange of information.

There are 6 Action Clusters and usually meet twice a year in a general assembly, even though more meetings could be organized internally in each Action Cluster. These meetings provide the opportunity to network and collaborate with leading smart city actors. San Sebastian, through Fomento de San Sebastian, is involved since several years ago in the Integrated Planning and Policy Regulations Action Cluster. The EIP–SCC Action Cluster Integrated Planning works together with European cities, businesses, research institutes and academia to build together Smart and Sustainable Cities. Overall, efforts go towards the implementation and design of smart cities strategies by making best use of capacity, monitoring and measuring tools with appropriate KPIs, and by enabling knowledge sharing and replication of successful cases.

5.2.2 Set up and Workshop organization

The EIP–SCC General Assembly and Action Cluster meetings are organized by the EIP.

The participation in the EIP General Assembly and Action Clusters by Fomento San Sebastián began before the Replicate project started. Since starting date of REPLICATE Fomento San Sebastián has participated twice a year in the meetings organized by the EIP.

Fomento San Sebastian participated in the EIP–SCC General Assembly in Eindhoven during the 23rd and 24th of May, 2016 and in Sofia the 27th June 2018. Fomento San Sebastian presented the city strategy, sharing the process followed to design the Donostia / San Sebastian Smart City Plan through a participatory process with almost 200 stakeholders involved, the Action Plan 2016–2020 and the most relevant implementation project Replicate for implementing the strategy at a district level. Therefore, the complete coherent process followed from planning to implementation was shared with the General Assembly participants, as a practical working process that might be replicated by other European cities, involving stakeholders in the whole process,

The University of Florence take also part to the assembly in Eindhoven, focusing on the IT tool and presenting the KM4city ontology for the Replicate dashboard in Florence with special



reference to the mobility issues. Based on open source, it was an example of sharing practice to be reused and an opportunity to match with other cities and experiences to improve the work and better guarantee the replicability of the system.

In the 11th November 2016 and the 20th June 2017, Fomento San Sebastian participated in the Integrated Planning and Policy Regulations Actions Cluster meeting celebrated in Brussels. Fomento San Sebastian also joined and took part in the session Integrated Planning, Policy and Regulation in joint session with Business Models celebrated in Brussels the 10th October 2018.

Bristol City Council was also able to take part in the meeting giving the wider local consortium an insight into what other cities were doing, understanding the core innovations of other cities, how they were approaching towards the energy measures that would be deployed in their cities, engaging with other lighthouse cities and sharing lessons learnt. As ICT is a key aspect of REPLICATE, there was a chance of contributing to the Urban ICT platforms group and feedback into Bristol City Council City Innovation and ICT departments.

EIP-SCC brings the opportunity for networking with industry, cities and Commission delegates to raise the profile of cities and the REPLICATE project as well as identifying potential partners for future projects.

5.2.3 Summary of Workshop results / expected results

Through panel discussions and thematic roundtables, the Action Cluster meetings had the goal of working on the version of the Smart City Guidance Package (SCGP), a work on integrated planning for smart city solutions, with the intention of collecting participants' experiences, know-how and best practices on implementation and replication of Smart City Projects. Debates helped the identification of common difficulties and solutions during the implementation of smart cities projects as well as the definition of a set of KPIs to ensure optimisation of city programmes, planning, implementation and management.

Fomento San Sebastian is contributing to the SCGP with documentation and active participation in these meetings sharing their experience in the development of European projects and the preparation of the smart city strategy and the implementation of different actions.

Replicate project will continue participating in the different events and meeting organized by the EIP, in fact, the REPLICIATE project will take part in the collaborative session organized by the Covenant of Mayors and the EIP in the Investement Forum session in Brussels the 20th February 2019. Fomento San Sebastian will present and share experiences in the session "Towards a Joint Investment Programme for European Smart Cities".

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5.2.4 List of participants / Participants to be invited

The participants come from non-governmental organizations, academics, cities and municipalities, EU projects, EU or EC agencies, finance, industry and investors.

Location:

Brussels (Belgium)

Eindhoven (Netherlands)

Sofia (Bulgaria)

Time schedule:

EIP-SCC General Assembly:

23rd and 24rd May, 2016

27th June, 2018

Integrated Planning and Policy Regulations

11th November, 2016.

20th June, 2017

10th October, 2018

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5.3 EUSEW–EU Sustainable Energy Week

5.3.1 Background, introduction

European Sustainable Energy Week (EUSEW) is a series of activities to build a secure energy future for Europe. It brings together public authorities, private companies, NGOs and consumers to promote initiatives to save energy and move towards renewables for clean, secure and efficient power. It was launched in 2006 by the European Commission. The EUSEW is organised by the Executive Agency for Small and Medium-sized Enterprises (EASME) in close cooperation with Directorate-General for Energy.

5.3.2 Set up and Workshop organization

The Policy Conference celebrated during the EUSEW is the most important European conference dedicated to sustainable energy policy issues. Sessions organised by the European Commission and energy stakeholder's debate new policy developments, best practices and sustainable energy ideas, while networking events forge alliances. Outstanding projects are recognised at the Award Ceremony.

2017

Replicate took part at the Workshop "Smarter is cleaner- lessons learned from the SCC1 Smart City projects" that was co-organized among the different lighthouse projects, and Fomento San Sebastián presented the implementation of Donostia/San Sebastian pilot District Heating solution and the Demand Side Platform.

ERRIN (European Regions Research and Innovation Network) hosted a joint event with ICLEI (International Council for Local Environmental initiatives) on follower cities in Horizon 2020. Essen participated as speaker at the following session:" Role of follower cities in replication: expanding Smart Cities around Europe".

Replicate also participated in a joint-stand together with the other Horizon2020 SCC1 lighthouse projects.

2018

Replicate project was presented at the workshop about "The contribution of energy smart solutions to social cohesion in cities". Florence city presented the project under this headline with special reference to the Florence smart city plan and its focus on social inclusion and how smart



city strategies are supporting the social development through the example of Le Piagge energy efficiency DH of the Replicate project. The event was promoted by ICLEI, urban innovation Vienna and the Architects' Council of Europe.

5.3.3 Summary of Workshop results / expected results

2017

The workshop was held on the 22th June 2017 and representatives from 13 cities involved in the smart city projects presented new energy products, discussed environmental policies and shared a catalogue of learning on how to grow a new market of smarter, more sustainable energy solutions and create a new generation of jobs. Introducing the “Smarter is cleaner” policy session, DG Energy Policy officer, reaffirmed the Commission’s support to the Lighthouse cities and satisfaction at the replication of the smart solutions plan in other cities that follow these projects.

The event of the follower cities was celebrated on the 22th June and was an opportunity to present and discuss the role of these cities in the replication process.

The joint-stand was settled at the networking area the 21st June, 2017, and it was an opportunity to exchange ideas on policies and best practices, to promote the projects and a chance to lay foundations for future cooperation.



Picture 2. Picture about the smarter is cleaner session programme

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Picture 3. EUSEW – Session on San Sebastian Pilot's latest implementations

2018

The session, held on the 6th June 2018, looked at the impact of smart energy solutions on social cohesion through the experience and best practices of European projects. From the planning to the implementation of smart energy solutions, the session proposed ideas to think and integrate the impact of these measures on citizens. This event was an opportunity to underline the smart city human centric approach where the people need come first thanks to concrete example of projects connected the urban energy efficiency architectural solutions applied to the social innovation of smart city project and innovative actions.

5.3.4 List of participants / Participants to be invited

Over 2500 participants from public authorities, energy agencies, industry associations, businesses, civil society organisations and the media are usual participants in the conference. Speakers and participants came from city councils and the European institutions, private companies and research organisations, citizen groups and non-governmental organizations. The audience of the specific sessions were Replicate presented the project was around 50 people.

Location: Brussels (Belgium)

Time schedule:

19th–25th June 2017

4th–8th June 2018



5.4 SCC Replication Workshop

5.4.1 Background, introduction

Called “Learning from the successful”, SCC Replication workshop was held, to cover key challenges and implementations in lighthouse cities and to engage with follower cities and to find the way to accelerate replication and scale up. Through H2020 Smart Cities and Communities, European funds are ensuring that cities cooperate and collaborate to implement solutions more efficiently, more rapidly and more widely. Through 12 projects, 86 cities are working together across national borders, with 36 ‘lighthouse’ cities piloting innovative technologies, and 40 ‘follower’ cities engaging in intensive peer learning activities in order to replicate the solutions being implemented.

5.4.2 Set up and Workshop organization

The workshop was a joint event of the 12 SCC1 lighthouse projects and the European Commission with the aim of illustrating how Lighthouse Smart City solutions can be replicated in Follower cities. The workshop was held during one day and was divided in three parts. The first part consisted on the welcome, introduction to replication and a presentation of the policy context. The second part consisted on two rounds of replication workshops in the areas of low energy districts, integrated infrastructures and urban mobility. Industrial and city partners introduced the workshop and then discussion from the participants was done. The third part consisted on a presentation about the EIP Action Cluster, from planning to implementation and the presentation of barriers for implementation.

5.4.3 Summary of Workshop results / expected results

The workshop permitted to exchange about the implementations and the barriers that cities have encountered so far, so that they can learn from each other to achieve more effective collaboration. Replicate participated as moderator in the District Heating round table and as participant in the Retrofitting and charging infrastructure round tables. Representatives from the three lighthouse cities and the follower cities took part as well as University of Oxford, leader of the Replication work package.

5.4.4 List of participants / Participants to be invited

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Representatives from 40 cities coming from the 12 lighthouse projects took part on the workshop. Representatives of INEA, DG ENERGY, DG MOVE, EIP-SCC Marketplace and SCIS took part.

Location: Brussels (Belgium)

Time schedule: 26th January 2018



5.5 SCIS Conference

5.5.1 Background, introduction

The Smart Cities Information System (SCIS) brings together project developers, cities, institutions, industry and experts from across Europe to exchange data, experience and know-how and to collaborate on the creation of smart cities and an energy-efficient urban environment. Launched with support from the European Commission, SCIS encompasses data collected from ongoing and future smart cities and energy efficiency projects co-funded by the European Union. Focusing on energy, mobility and transport, and ICT, SCIS showcases solutions in the fields of energy-efficiency in buildings, energy system integration, sustainable energy solutions on district level, smart cities and communities, strategic sustainable urban planning.

5.5.2 Set up and Workshop organization

The coordinators meeting was organized in October 2016 in Brussels where REPLICATE project was represented by Fomento San Sebastian. This meeting was focused on sharing knowledge and successes while promoting dissemination of the knowledge to others.

SCIS organized the annual conference in October 2017 in Budapest under the headline of empowering smart solutions for better cities.

5.5.3 Summary of Workshop results / expected results

The 2016 coordinators meeting was an opportunity to take an interactive approach though different topics like citizen engagement, data, monitoring, replication and communication among others. Fomento San Sebastian shared its main ideas regarding these topics.

The annual conference of the EU Smart Cities Information System encouraged the replication of smart cities technologies, solutions and experiences among cities and communities. A mix of classic sessions and interactive methods were organized. The project partner Tecnalía presented the Replicate project in the parallel sessions that were oriented to the presentation of success stories reflecting the urban innovation in practice. Tecnalía presented “Measuring impacts for City’s Business Models” within the Replicate project. It was a good opportunity to present this topic and disseminate it in front of an international audience.

5.5.4 List of participants / Participants to be invited

This event brought together key stakeholders from cities and regions, smart cities & energy efficiency projects, industry, business, European Commission and smart cities initiatives.

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Location:

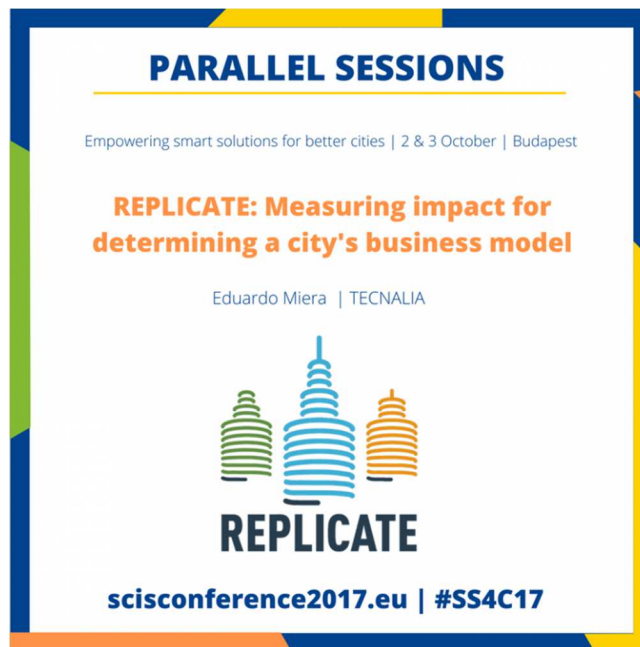
Brussels (Belgium)

Budapest (Hungary)

Time schedule:

13th October, 2016

2nd–3rd October, 2017.



Picture 4. SCIS' Annual conference in Budapest

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5.6 Eurocities Development Forum

5.6.1 Background, introduction

Eurocities is the network of major European cities. The members are the elected local and municipal governments of major European cities. The local governments of over 140 of Europe's largest cities and over 45 partner cities participate, that between them govern 130 million citizens across 39 countries. Through six thematic forums, a wide range of working groups, projects, activities and events, platform for sharing knowledge and exchanging ideas is offered.

5.6.2 Set up and Workshop organization

The city of Donostia /San Sebastian organized the EUROCITIES Economic Development Forum on April 2017. The event was entitled “Innovative cities for a competitive Europe”. The forum was organized by Fomento Sebastián and it was a three–day forum.

5.6.3 Summary of Workshop results / expected results

The event was focused on how cities can boost their innovation ecosystem, thus supporting local start-ups and SMEs. The first day was focused on the celebration of the Steering Committee meeting, business meetings and interactive working groups discussion. The second day consisted on a High–Level panel debate about “How can cities foster innovation and be more prosperous?”, study visits and workshops. Among the city visits the Enertic building was visited where the presentation of the Replicate project was done. Enertic building is owned and managed by Fomento San Sebastián and different companies have their headquarters in there. Enertic is an eco–intelligent building with zero emissions. On this second day a political lunch was also organized only for politicians. The third day was focused on working groups about Entrepreneurship and SMEs on one side and City branding and international economic relations on the other side. San Sebastian, through FSS, and Florence lighthouse cities participated in the event taking part in the workshop about Smart cities and local innovation practices for engaging SMEs and start-ups with a joint presentation between the three lighthouse cities (FSS represented Bristol as well). Replicate project lighthouse cities together with London lighthouse city took the chance to share experiences with the audience in an interesting round table. Fomento San Sebastian also presented the smart city strategy of Donostia–San Sebastian. This event, apart from the working results obtained, was a good occasion to bring together high–level representatives that permitted the wide dissemination of the action and to attain a greater critical mass.

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5.6.4 List of participants / Participants to be invited

Different members from Eurocities and Eurocities Development Forum, the City Councillor of Munich, a member of the European Commission and a member of Harvard University took part among other participants, presenting or chairing the different sessions. The Mayor and Vice-Mayor of San Sebastián also participated in some activities of the programme. Around 80 city representatives (partners of Eurocities) participated in the forum for instance representatives from Vienna, Nantes, Munich, London, Amsterdam, Lisbon, Paris, Berlin, Eindhoven, Florence, Helsinki, Gothenburg, and Genoa etc.

Location: San Sebastián (Spain)

Time schedule: 26th–28th April, 2017.

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5.7 Brokerage Event Horizon 2020 Smart Cities and Communities

5.7.1 Background, introduction

The Horizon 2020 Smart Cities and Communities Brokerage Event was an opportunity for city representatives to develop consortia and present project ideas to respond to the Horizon 2020 Smart Cities and Communities projects from the 2017 call.

5.7.2 Set up and Workshop organization

The event was organized by Covenant of Mayors Office and Eurocities.

5.7.3 Summary of Workshop results / expected results

Representatives from the European Commission (DG ENER, DG MOVE and DG CONNECT) presented the 2017 call for projects under Horizon 2020, the European Innovation Partnership for Smart cities and Communities and some lesson learnt from the previous round of applications.

Representatives from the running smart cities projects at that moment took part and supporting actions were presented to provide information on their activities and what made their project successful.

During the event the Replicate project was presented, and contributed to proactive matchmaking between potential projects.

5.7.4 List of participants / Participants to be invited

FSS participated presenting the project together with other SCC1 projects.

Representatives from Eurocities, DG ENER, DG MOVE, DG CONNECT, CITY Keys, Green Digital charter and SCIS also participated in the event. 40 people attended the event coming from different lighthouse projects and cities. The city of Gant and Uppsala representatives had the opportunity to present their project ideas.

Location: Brussels (Belgium)

Time schedule: 11th October 2016

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5.8 8th European Conference on Sustainable Cities and Towns

5.8.1 Background, introduction

The conference dealt with local sustainable development in Europe bringing together local and regional government representatives, European and international institutions, multilateral organisations, members of the research community, business leaders and civil society.

5.8.2 Set up and Workshop organization

The 8th European Conference on Sustainable Cities & Towns was hosted by ICLEI – Local Governments for Sustainability, the Basque Government, Bizkaia County Council and Bilbao City Council, with the involvement of Udalsarea 21 – Basque Network of Municipalities for Sustainability, and the support of Araba County Council, Gipuzkoa County Council, Donostia/San Sebastián City Council and Vitoria–Gasteiz City Council.

5.8.3 Summary of Workshop results / expected results

Replicate was represented by the Donostia/San Sebastián pilot partner Ikusi.

5.8.4 List of participants / Participants to be invited

Around 250 people attended the conference. The presenters were high-level speakers as public authorities and managers from companies.

Location: Bilbao (Spain)

Time schedule: 27th April 2016



5.9 EU-GUGLE Workshop

5.9.1 Background, introduction

The EU-GUGLE project, sustainable renovation models for smarter cities, aims to demonstrate the feasibility of nearly-zero energy building renovation models in 6 pilot cities (Vienna, Aachen, Milan, Sestao, Tempere and Bratislava) in order to achieve replication around Europe. This project has received funding from the European Union's Seventh Programme for research, technological development and demonstration under grant agreement No ENER/FP7EN/314632/EU-GUGLE.

5.9.2 Set up and Workshop organization

The city of Sestao organized an event/workshop for exchanging lessons learnt in Smart City projects. The workshop was a half day event and consisted on an open ceremony, presentation about smart initiatives by the European Commission, presentation of 6 different FP7 and H2020 projects and three hours of round tables about different topics.

5.9.3 Summary of Workshop results / expected results

Fomento San Sebastian presented Replicate Project introducing the objectives, challenges, impacts, financing, lessons learnt and replication potential. In addition, San Sebastian's Smart City strategy and specific smart projects and implementations were shared with the audience.

Thanks to the audience participating in the event the exchange of best practices with public authorities and industry at European level was possible.

5.9.4 List of participants / Participants to be invited

The Mayors of Bilbao and Sestao, the Counsellor for Environment, Spatial Planning and Housing of the Basque Government and the Counsellor for Economic Development and competitiveness of the Basque Government took part in the event as well as European Commission members.

Project Coordinators of different European projects, SCC01 projects representatives, Universities, National Energy Centres from different countries in Europe also participated. Around 50 people attended the presentation.

Location: Sestao (Spain)

Time schedule: 19th May 2017



5.10 EMA Energy Authorities and Managing Authorities

5.10.1 Background, introduction

The EMA –Energy Authorities and Managing Authorities of Cohesion Policy 2014/2020 event was an opportunity to present the Replicate project; invited by the DG Ener the City of Florence took part to the “Cities driving the energy transition” session together with the European Innovation Partnership on Smart Cities and Communities (EIP-SCC) to show how improve urban life through more sustainable integrated solutions.

This includes applied innovation, better planning, a more participatory approach, higher energy efficiency, better transport solutions, intelligent use of Information and Communication Technologies (ICT), etc. and Replicate was presented in the panel discussion with exchange views from cities as an example of this urban strategy by the City of Florence.

5.10.2 Set up and Workshop organization

The event was organized by DG Ener and DG Regio.

5.10.3 Summary of Workshop results / expected results

Representatives from the European Commission (DG ENER, DG REGIO, EIP_SCC) presented the 2017 call for projects under Horizon 2020, the European Innovation Partnership for Smart cities and Communities and some lesson learnt from previous round of applications as an example of the cities as a driver to energy transition underlining the focus on the implementation top political priority due to the importance of energy in connection with growth, sustainability and geopolitics. Representatives from the running smart cities projects at that moment and supporting activities were presented to provide information on their activities and their role as action project.

During the event the Replicate project was presented, and contributed to proactive matchmaking between potential projects.

5.10.4 List of participants / Participants to be invited

Florence participated presenting the project together with the Managing Office of SCC1 projects. About 80 participants, including representatives of managing authorities and energy authorities, stakeholders and representatives from the European institutions and European network (such as Eurocities and Covenant of Mayors)

17 Member States were represented (BE, CZ, EL, ES, FR, LV, MT, NL, AT, PL, PT, RO, SI, SK, FI, SE, UK).

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Location: Brussels (Belgium)

Time schedule: 10th – 11th May 2016



5.11 EU Industry Day

5.11.1 Background, introduction

EU Industry Day is a forum to update stakeholders on the Commission's strategic approach to industrial policy and actions to further develop industrial competitiveness in Europe.

It also serves as a forum for stakeholders contributing to European industrial competitiveness to showcase their activities, learn from each other, discuss cross-cutting issues and develop joint visions for the future.

5.11.2 Set up and Workshop organization

The programme was co-created by the European Commission and stakeholders. The event consisted on two-day conference sessions and an exhibition. The EU Industry Day was organized for the first time in 2017.

5.11.3 Summary of Workshop results / expected results

At the European Industry Days, the European Commission presented its strategic approach to industrial policy and actions to further develop industrial competitiveness in Europe. Replicate was represented at the exhibition with a stand where Donostia/San Sebastian pilot partner, Eurohelp and Bristol City Council presented the results and achievements of the project. Replicate was selected together with other 20 innovative products and ideas to participate in the exhibition. It was also a good opportunity for network and showcase concrete results from the project to the conference delegates and EC officials. Replicate was also promoted through the EC's social media channels, during and after the event, in the Horizon Magazine, and in a video summarising the event.

5.11.4 List of participants / Participants to be invited

The event gathered around 600 stakeholders representing a variety of industrial sectors, finance, research and innovation, public government and administration. The programme consisted of a high-level policy part with key notes by President Juncker and Vice President Katainen; stakeholder workshops and the exhibition showcasing 20 innovative ideas, products and services.

Location: Brussels (Belgium)

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Picture 5. Replicate's stand in the EU Industry Day

Time schedule: 22nd–23rd February 2018

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5.12 EEA European Energy Award annual meeting

5.12.1 Background, introduction

The European Energy Award supports local authorities in establishing interdisciplinary planning approaches and implementing effective energy and climate policy measures through the rational use of energy and increased use of renewable energies. There are more than 1,500 municipalities participating. Both the European Energy Award and the Smart City Initiative intend to contribute to optimizing energy consumption: according to this share goal the city of Florence, as EEA awarded city and as lighthouse city, has been invited to represent the Replicate project as good practice.

5.12.2 Set up and Workshop organization

The event was organized by the EEA association.

5.12.3 Summary of Workshop results / expected results

Representatives from the EEA agencies and awarded cities presented the projects under Horizon 2020, and lesson learnt as an example of the cities daily work to energy efficiency and rational use of energy in strategic plan and projects with references to building, mobility and citizenship awareness.

Representatives from gold awarded and smart cities projects were presented to provide information on their activities and their role as action project.

During the event the Replicate project was presented by the City of Florence with references to energy efficiency actions and e-mobility. Lausanne follower city also attended the event.

5.12.4 List of participants / Participants to be invited

About 450 cities participants, besides representatives of EEA agencies and networks (i.e. Covenant of Mayors)

Location: Luzern (Switzerland)

Time schedule: 17th October 2016



5.13 Green Digital Charter Awards – Awards ceremony

5.13.1 Background, introduction

The Green Digital Charter aims to improve the quality of life in cities through the use of digital solutions. It was first launched in 2009 by EUROCITIES, drawing on preparatory work by the city of Manchester and Clicks and Links Ltd. A large number of European cities – home to over 26 million people – have already committed to work together towards the aims and objectives of the Green Digital Charter. The charter is also supported by the European Commission.

As part of the ‘Imagine the Urban Future: Innovation, Collaboration, Trust’ Bristol was shortlisted for the Green Digital Charter (GDC) 2017 Awards. The jury announced the winner at the occasion of the conference on the Tuesday 23 January in Brussels.

5.13.2 Set up and Workshop organization

The EUROCITIES Green Digital Charter (www.greendigitalcharter.eu) was one such initiative. It commits 51 European cities, representing almost 27 million citizens, to work together and deliver on the objectives of improving the quality of life in cities using digital solutions. The workshop participants did also develop recommendations to help local authorities and EU institutions jointly achieve their policy and project objectives.

The year 2017 was crucial for the completion of the Digital Single Market, and cities played an important role in this process. EUROCITIES engaged in a dialogue with officials and representatives of the EU institutions and other stakeholders to make the most of the planned digital policies and initiatives. While assessing the real needs and priorities of cities related to urban digital transition, participants also exchanged views on current and future implementation challenges and obstacles. The political debate in the morning was followed by two parallel technical workshops dedicated to specific policy issues. Concrete cases, project examples and initiatives, that illustrated how cities could become smarter through the use of digital solutions.

5.13.3 Summary of Workshop results / expected results

As a result of the event, Bristol was a runner up at the event and was added into the Green Digital Charter magazine. There was a good turn up and it was also invited to attend the following years to present their pieces of work on REPLICATE.

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5.13.4 List of participants / Participants to be invited

Over 100 participants including civil servants, smart city experts, delegates from the EU institutions and partner as well as representatives from the private sector.

Location: Brussels (Belgium)

Time schedule: 25th January 2017

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5.14 Smart City Expo World Congress

5.14.1 Background, introduction

The world's leading event for cities, aims to establish partnerships and to identify business opportunities, the congress is dedicated to creating a better future for cities and their citizens worldwide. The event is based around the values of social inclusion and empowerment and is dedicated to promoting awareness, understanding and critical reflection between inhabitants of different cities worldwide, all in a climate of mutual respect and caring. Sustainability is a top priority, with the Towards Zero Waste initiative aiming to reduce waste and increase efficient use of resources across the event. SCEWC aims to define what smart cities are and examine the most relevant responses and solutions to the challenges they face. The event was inaugurated in 2011 and it has been organized each year since then.

Although Barcelona is the most popular and relevant edition the event is being celebrated in other cities of the world

5.14.2 Set up and Workshop organization

The event consists on an exhibition, conferences and smart cities award celebration. The congress is organized by Fira de Barcelona and its Cities & Societies Business Unit.

Replicate project co-organizes and participates in a common stand together with the other lighthouse projects since 2016. The stand that is promoted by the EIP-SCC and co-organized and co-financed by the SCC1 projects aims to expand the dissemination of the implementations done in different cities across Europe in order to facilitate the replication process. Information about projects is displayed, questions from visitors are answered, experiences are shared, networking activities take place and workshops are organized as well as coordination and task group meetings with all the lighthouse projects.

The San Sebastian pilot partner IKUSI and the Florence pilot partner University of Florence organize a stand in the exhibition, and so REPLICATE is also represented at those stands.

Replicate has been also represented in the general conferences by the Cities of San Sebastián through Fomento de San Sebastian, Florence and Bristol. Several other workshops and activities organized by other partners or exhibitors gave the opportunity to the City of San Sebastian and to the City of Florence to present their experience and the Replicate project pilot actions.

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5.14.3 Summary of Workshop results / expected results

Workshops and speaking sessions at the stand

The aim of these sessions is to communicate the project implementations to the public attending the workshops. These workshops are open to the public and promotion is done before the celebration. The main outcomes have been sharing different experiences between projects and receiving interest in Replicate from other cities.

Replicate has participated in these sessions:

2016

- From planning to implementation. Fomento de San Sebastián
- Citizen engagement using the Bristol Approach to citizen sensing. Knowle West Media Centre (KWMC)
- Integrated infrastructure for urban platform in Florence. University of Florence (UniFi)

Together with the city of San Sebastián, the cities of Florence and Bristol as well as the partners: Florence University, Zeeta Networks and Toshiba also joined the stand and participated in the dissemination and communication actions.

2017

- District Heating solutions Fomento de San Sebastián
- Measuring smart cities performance, Fomento de San Sebastián
- Data Management and city data strategy, Urban sharing Platforms, Florence
- Citizen Engagement, Bristol City Council
- Smart sustainable mobility solutions, Florence
- Early identification of potentials for replication, ESADE
- Smart cities strategy, governance, ESADE

2018

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- Replication and business models: Challenges and opportunities for replication of SC projects from the lighthouse to follower cities and beyond, ESADE
- Smart Services, Proven Smart Mobility and Smart Urban Space Services, IKUSI
- Communication & Dissemination, Communicating the Smart City, Bristol City Council
- Standardisation, Standards make cities smarter – Good Practices for Smart City Solutions, Bristol City Council
- Citizen Engagement, How to engage the right citizens in smart cities: Best practices and examples, Bristol City Council

Participation in other workshops and conferences

2016

A number of Bristol REPLICATE partners had presence at this event. KWMC in particular had a paper accepted, titled: Tackling Urban Issues from the Bottom Up: A New Approach to Citizen Sensing.

University of Florence, DISIT Lab, and Km4City, Florence took part on the parallel session “Open, Flexible, Scalable City Platforms” organized by Smart City Expo 2016

Participation in Solution talks: IoT and Disruptive technologies for cities

Project partner ESADE participated in the Reading data to better understand people and cities talk.

2017

Fomento San Sebastián took part in the Smart City Tech Workshop focused on driving the implementation of smart systems in urban areas, presenting the challenge ICT solutions for energetic balance and business models in energetic building rehabilitations. Fomento San Sebastian presented the San Sebastian case. Other areas presenting the challenge were Flanders Region, Munich and Catalonia. The workshop was organized jointly between Smart City Tech and Cluster GAIA.

2018



Fomento San Sebastián participated representing Replicate project at the AGORA session as speaker on the topic: Trial. Innovate. Replicate. Smart Cities and Communities. This session was a great opportunity to share experiences and lessons learnt together with the other lighthouse projects in front of an international audience. Around 40 people attended the session. Fomento San Sebastián participated presenting the San Sebastian Smart City Strategy in the ACLIMA (Basque Environment Cluster), among the different projects the Replicate main actions were explained.

The city of Florence participated at the Auditorium plenary session on “Mobility of Tomorrow: Faster, Cheaper, Cleaner and Safer than Today?”.

With reference to the Replicate project and the pilot area actions, Florence has submitted its candidacy “Experience today the Florence of tomorrow: smart city governance in action” to the SCEWG 2018 City Award, awarded to Cities for developed global strategies combining projects, initiatives and policy implementations for their citizens and it has been selected as finalist together with the cities of Melbourne, London, Haifa, Dijon, Santiago de Chile and Singapore.

The city of Florence took also part, as expert guest, to the workshop on viable business model on smart mobility with focus on e-mobility.

5.14.4 List of participants / Participants to be invited

Visitor number has increased from 16.000 in 2016 to 21.000 in 2018. Around 800 exhibitors take part (with an increase of 145% in the last three years) and more than 400 speakers take part in the different sessions. The public comes from more than 120 countries. Information available from year 2017 shows that the 50% of visitors are CEOs, High Ranking Executives like presidents and elected politicians. Regarding the sectors almost de 60% comes from private companies, cooperatives and start-ups, followed by the 25% of Public Administrations Local Governments and institutions, the remaining 15% is represented by Universities, Research Centres and Others.

Location: Barcelona (Spain)

Time schedule:

15th –17th November, 2016

14th–16th November, 2017

13th–15th November, 2018



Project No. 691735
REPLICATE PROJECT
**Renaissance of Places with Innovative
Citizenship And Technology**



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Picture 6. SCEWC Replicate's stand (2016)

Picture 7. Replicate team at SCEWC (2017)

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Picture 8. Replicate team at SCEWC (2018)



Picture 9. SCEWC Agora Session

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Picture 10. Replicate's stand at SCEWC

REPLICATE project commitment is to continue participating in the co-organization of the stand and participating in different workshops and activities in order to spread the outcomes in one of the most popular events in the Smart Cities framework.

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5.15 Smart City Conference Nordic Edge

5.15.1 Background, introduction

Nordic Edge has established as the largest smart city event in the Nordics for knowledge exchange and inspiration to creators of smarter businesses, societies and smarter cities.

5.15.2 Set up and Workshop organization

The conference is organised by Nordic Edge, a non-profit corporation owned by private companies working in close cooperation with municipalities and city administrations to promote solutions for smarter cities and communities. Nordic Edge also impulses the Smart City innovation Cluster based in Stavanger. Some international partners and co-organisers also joined the event.

REPLICATE has participated during 2016 and 2018 years.

2016

During 2016 the event was presented as a two-day conference with top-class speakers from Europe, Asia and USA and an exhibition. The first day topics were focused on “building the smart city” and the second day was focused on “business opportunities”.

2018

During 2018 the event was presented under the heading “Smart with a Heart” which wants to highlight that Smart Cities have the objective to make better communities to live in, more liveable urban spaces were citizen interests and well-being come first. The event followed same format as in past editions combining conferences and exhibition area.

5.15.3 Summary of Workshop results / expected results

2016

FSS took part representing REPLICATE at one of the Breakout Sessions held and called: “Meet the new Lighthouse projects” together with other Lighthouse project presentations. It was the



opportunity to present the project to an International audience with focus on San Sebastian city´s implementations.

2018

REPLICATE project took part together with the other twelve SCC1 projects, SCIS and the EIP–SCC in a joint stand. The stand gave the chance to projects, tenders, city and technical representatives, to talk and to inform visitors about the overall SCC1 community, the individual projects and the solutions developed and to illustrate the progress that has been made. The SCC1 Multitouch Tool that hosts information about all SCC1 projects was available. Bristol took part in promoting the project on the stand with other SCC1 project cities.

FSS also took part on the conference, on the public session “Trial, Innovate, Scaling Up. Lessons learned from Europe´s Smart City Lighthouse Projects in a European Context”. After the presentations, where REPLICATE was introduced, a panel session was held. This event both with the exhibition and the presentation was an opportunity to disseminate the project results. Communication & dissemination and Replication workshops were organized among the SCC1 projects, to work together in joint actions affecting these topics in which Bristol took part.

5.15.4 List of participants / Participants to be invited

The Nordic Edge is a platform that brings together different players in the Smart Cities field, these players include: decision makers from cities and municipalities, universities, smart technology providers, universities, investors and customers. The event has increased the impact of people in the past years reaching 5.000 visitors, 150 speakers and 300 exhibitors in 2018.

Location: Stavanger (Norway)

Time schedule:

6th–7th October 2016

25th–27th September 2018

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5.16 Smart Cities Live London

5.16.1 Background, introduction

Smart Cities Live was about embracing challenges and innovative solutions in the smart and sustainable development of cities and municipalities. Smart Cities Live was focused into 8 key themes: Financing, Strategy, Standardisation, Transportation, Renewable Energy, Digital City, Planning & Citizen Engagement.

5.16.2 Set up and Workshop organization

The Smart Cities Live London was organized by go.konnect a media company with more than 40 years of experience. The event gathered leading experts and project leaders from cities across Europe and the Middle East, to create an environment to inspire smart city development through idea sharing.

The event consisted on two days conferences and was celebrated in the Crystal Building, one of the world´s most sustainable buildings.



Picture 11. Replicate's showcase at Smart Cities Live London

5.16.3 Summary of Workshop results / expected results

Replicate was presented at the H2020 Project Showcase & Panel Discussion by the Manager from Fomento San Sebastian, and Florence and Bristol cities took part in the panel discussion. The



three lighthouse cities participated together showcasing the project to a worldwide public spreading the main facts and challenges

5.16.4 List of participants / Participants to be invited

45 speakers took part in the conferences and 200 attendees from different countries participated in the event.

The speakers were public authorities, executives working on smart departments of the municipalities, project coordinators and executives from private companies around the world. For instance, Director from Greater London Authority, General Director of Smart Dubai, Chief of innovation, City of Copenhagen, Deputy Mayor City of Turin, CEO Tel Aviv Foundation among others.

Location: London (United Kingdom)

Time schedule: 12th–13th September, 2017

	<p align="center">Project No. 691735</p> <p align="center">REPLICATE PROJECT</p> <p align="center">Renaissance of Places with Innovative Citizenship And Technology</p>	 <p align="center">This Project has received funding from the European Union's Horizon 2020 research and innovation program under Grant Agreement No. 691735</p>
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5.17 29th Annual Conference on Innovation Applications of Artificial Intelligence

5.17.1 Background, introduction

The Twenty-Ninth Conference on Innovative Applications of Artificial Intelligence (AAAI-17) was held February 4-9 2017 at San Francisco, California, USA. During the AAAI-17 workshops, tutorial, and doctoral consortium programs were held followed by the AAAI-17 and IAAI-17 technical program.

5.17.2 Set up and Workshop organization

AAAI-17 focused on successful applications of AI technology. The conference used technical papers, challenge papers, invited talks, and panel discussions to explore issues, methods, and lessons learned in the development and deployment of AI applications; and to promote an interchange of ideas between basic and applied AI. The plan was to have papers in three tracks: (1) deployed application case studies, (2) emerging applications or methodologies, and (3) challenge problem papers.

5.17.3 Summary of Workshop results / expected results

Submitting of a publication based on smart parking work for REPLICATE to a conference. Paper title: "ParkUs: A Novel Vehicle Parking Detection System". Presented at the Conference on Innovative Applications. Toshiba Bristol pilot partner attended this event. Submitting a publication based on smart parking work for REPLICATE to a conference.

5.17.4 List of participants / Participants to be invited

More than 1.000 attendees at the conference, 60 attended the session in which REPLICATE's paper was presented including leading organisations such as Google and Microsoft who are also interested in this area.

Location: San Francisco (United States)

Time schedule: 4-9th February 2017

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5.18 Smart Cities Connect

5.18.1 Background, introduction

Smart Cities Connect Conference and Expo offers the most comprehensive conference, exposition and accelerator of smart city innovation in North America. Premium networking and educational opportunities with a keen focus on city leaders and their priorities was offered.

5.18.2 Set up and Workshop organization

The event was organized by Tech Connect in partnerships with Usignite and other sponsors took part too. The event consisted on three days conferences and exhibition.

5.18.3 Summary of Workshop results / expected results

General Manager from Fomento San Sebastián presented Replicate, under the headline City Spotlights, Citizen Life & Governance, together with the City of Orlando, Cary, and San Francisco that presented their spotlights in their cities. San Sebastian was the only European city invited to participate in this event so Replicate was the only H2020 Lighthouse project with presence, and served to disseminate the actions carried out in the city within the framework of the European co-financed programme to an international audience. This participation was on the 29th March.

5.18.4 List of participants / Participants to be invited

More than 400 representatives of smart cities took part, with about 300 exhibitors and 2.500 experts attending. The REPLICATE presentation was attended by approximately 50 people.

Location: Kansas City (United States).

5.18.5 Time schedule:

26th March–29th March, 2018.

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5.19 Smart City Expo LATAM

5.19.1 Background, introduction

Smart City Expo LATAM Congress is the platform that brings together representatives of cities, institutions, civil society organizations and companies with the aim of identifying common challenges and presenting solutions oriented toward better urban planning. The event has been organized due to the success of the Smart City Expo World Congress in Barcelona that has been exported to other regions.

5.19.2 Set up and Workshop organization

The event has been organized by Fira Barcelona Mexico and SmartCity Expo World Congress in collaboration with Alianza Smart Latam. The event was celebrated for the first time in year 2016.

5.19.3 Summary of Workshop results / expected results

Replicate project was represented in 2016 and 2017 editions by Donostia/San Sebastián pilot partner Ikusi, with a stand. Thanks to this participation the project was showcased in front of an international audience.

5.19.4 List of participants / Participants to be invited

12.000 visitors participated in the event where near 400 speakers took part in the conferences and 140 exhibitors participated with a stand.

Location: Puebla (Mexico)

Time schedule:

16th–18th February 2016

27th –29th June 2017

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5.20 Smart City Innovation Accelerator Summit

5.20.1 Background, introduction

This Smart City Innovation Accelerator is a new form of innovation engagement established for Smart City and Innovation leaders as part of the Urban Innovation work at TECH. It is unlike any other Smart City event, as it is exclusively for city leaders and their senior staff and is focused on developing working solutions for your city alongside your peers.

5.20.2 Set up and Workshop organization

In Dublin, the event focused on the theme of 'Smart Districts – how to deploy and scale'. As part of this, there was a practical focus on the roll-out of smart districts. As an example, the "Docks", a smart district in Dublin, generates over 9% of Ireland's GDP, is home to many of the world's leading tech. companies and is the subject of one of Europe's largest urban redevelopment projects. A series of topics such as how we deploy smart districts, connectivity challenges, appropriate engagement models, success criteria and scaling of solutions formed part of the discussions.

5.20.3 Summary of Workshop results / expected results

REPLICATE gave a presentation and participated in a discussion at Dublin around Smart districts. The event brought international partners to scale smart districts. Bristol City Council attended this event. REPLICATE gave a presentation and participated in a discussion around Smart districts.

5.20.4 List of participants / Participants to be invited

The 2017 Smart Cities Innovation Accelerator was co-developed by the Fellows from the Technology and Entrepreneurship Center at Harvard along with city leaders and industrial experts. This event was co-hosted with Jamie Cudden, Smart Dublin lead in Dublin City Council, and his team in the great city of Dublin. Teams (2–4 people) from 20 cities across the US, Europe and the Middle East assembled to work through a number of key challenges common across global cities. Leading industry, academic and non-profit experts were brought in to support city leaders in addressing these challenges.

Location: Dublin, Ireland

Time schedule: 12th February 201

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5.21 Building Sustainability Congress

5.21.1 Background, introduction

The SBSC (Stockholm building sustainability congress) was focused on how the built environment could actively contribute to sustainable living and more stable climate. The event gave the opportunity to get updates on the international trends and developments, focusing on the latest in green certifications, indoors environment and health, sustainable real estate management and smart new technology for environmental adaptation. The conference also provided information on the major investments planned in sustainable cities, offices and housing.

5.21.2 Set up and Workshop organization

The congress was organized by Sweden Green Building Council and the City of Stockholm, in cooperation with World Green Building Council, C40 Cities Group and ICLEI. The event consisted on two-day conference and an exhibition.

5.21.3 Summary of Workshop results / expected results

Replicate took part on the joint stand together by other lighthouse projects with the aim of disseminating and communicating on the SCC1 funded projects. The joint stand was co-organized by 7 projects and included one screen for each project where the information was displayed. FSS was there representing Replicate and disseminating the project main facts to the visitors.

5.21.4 List of participants / Participants to be invited

FSS participated together with representatives of the other lighthouse projects.

1000 people attended the expo. The audience was integrated by sustainability experts, business contacts, colleagues and a wide range of decision-makers in urban planning and construction.

Location: Stockholm (Sweden)

Time schedule: 17th –19th October 2016.

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5.22 Cities for mobility International Congress

5.22.1 Background, introduction

Cities for Mobility is a network of municipalities, companies, research institutions and organizations from civil society that cooperate for developing, implementing and disseminating innovative policies and measures for sustainable urban mobility. The international congress is organized once every two years.

5.22.2 Set up and Workshop organization

The congress is organized by Cities for mobility network. In 2018, the 9th International Cities for Mobility Congress took place under the theme “New Mobility and the Transformation of our Cities”.

5.22.3 Summary of Workshop results / expected results

Replicate was represented by the Donostia/San Sebastián pilot partner Ikusi.

5.22.4 List of participants / Participants to be invited

More than 300 participants from 34 countries took part from diverse sectors and thematic areas including local and regional government, start-ups, large companies, civil society, urban planning, transport, pedestrian and cyclist safety and many more.

Location: Stuttgart (Germany)

Time schedule: 18th–19th June 2018.

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5.23 Cities Summit and DLD Tel Aviv Innovation Festival

5.23.1 Background, introduction

The city of Tel Aviv together with DLD Tel Aviv organise yearly the international digital conference and worldwide innovation festival. Boosting top technological talent, the highest venture capital investments per capital and multinational center for industry leader and thanks to the Cities Summit the event gives the opportunity to present to specialized and large public the experience of smart city projects close to the innovative approach and innovation system and actions.

5.23.2 Set up and Workshop organization

The Innovation Festival was organized by DLD Tel Aviv in partnership with the City of Tel Aviv and the National Govern and in synergy with different companies and associations. The event was developed during 4 days including the Cities Summit and several meetings focusing on Innovation. The festival was oriented to celebrate the city of innovation as an open area where people, ideas and key level figures meet and exchange opinions and projects and find opportunity.

Florence was invited to take part to the Cities Summit and presented the development of the smart city plan and the pilot area in the framework of Replicate project.

5.23.3 List of participants / Participants to be invited

The Cities Summit and related Conference, on invited only (besides the festival, an open event) were aimed to bridge the existing international community to Tel Aviv based digital and business elite as well as creative minds and makers, acting as an active hub where cities and players had the opportunity to meet and exchange ideas, projects, practices and needs.

112 delegations, 72 exhibitors, 90 partners and thousands of cities, and people attended the global event.

Location: Tel Aviv(Israel)

Time schedule: 24th – 29th September, 2016

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5.24 Forum des Projects Urbains du Grand Ouest

5.24.1 Background, introduction

The forum, targeted mainly at a variety of different agents involved with urban planning and development of Western France, gathered local authorities and politicians, managers of urban planning and development, architects, planners, as well as investors, promoters and other agents of municipal services such as transport, energy, etc.

5.24.2 Set up and Workshop organization

The forum was organized by Innovapresse in partnership with different companies and associations. The event was developed during one day and included different conferences. This forum was oriented to the Grand Ouest of France but other “Forum des Projects Urbaines” were also organized in France during the year focused on other areas of the country.

5.24.3 Summary of Workshop results / expected results

Fomento San Sebastián presented the development of the Urumea Riverside District, in the framework of Replicate project. Bordeaux, Nantes, the region of New Aquitaine and Lisbon showcased their projects among others. Attending to the forum was a chance to share the Replicate project successes and insights with other agents from other countries. The presented urban developments were also published in the magazine launched by the forum.

5.24.4 List of participants / Participants to be invited

The forum is reserved for professionals and brought together in a single place all the actors of urban production in the Greater West (public / private, technicians / elected officials, project owners / prime contractor). Around 100 people attended the conference. The participants were elected officials and technicians of local authorities, managers of urban (re) development, architects-planners as well as investors, promoters, urban service managers (transport, energy, etc.).

Location: Bordeaux (France)

Time schedule: 4th April, 2018

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5.25 IoT Solutions World Congress

5.25.1 Background, introduction

IoT Solutions World Congress is an event dedicated exclusively to joining IoT providers with industry in order to help the latter increase productivity via this disruptive technology. Since the first congress organized in 2015, the event has grown to become the global reference for industrial IoT, and the annual meeting for industry stakeholders to establish new partnerships.

5.25.2 Set up and Workshop organization

The event consists on a three-day exhibition and conference event. The Replicate project participated in the IoT SWC 2018 event at the hand of Eurohelp, consortium member and San Sebastian's pilot partner that was one of the exhibitors in the congress.

5.25.3 Summary of Workshop results / expected results

Replicate was represented in the stand with a poster about the project.

The event was an opportunity to showcase REPLICATE project and the implementations in relation to the Smart City Platform and the Citizen Participation and Linked Data platforms that are being deployed in San Sebastian.

5.25.4 List of participants / Participants to be invited

The exhibition area included 300 participants and 16.000 visitors attended the event. Almost half of the visitors came from targeted industries: manufacturing, buildings & infrastructure, energy & utilities, healthcare, connected transport and open industry. The 77% of people came from Europe followed by the 15% coming from America.

400 top level speakers took part on the conference.

Location: Barcelona (Spain)

Time schedule: 16th–18th October 2018

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5.26 MATELEC Exhibition

5.26.1 Background, introduction

Matelec is the leading event for the electrics, electronics and telecommunications Industry. It improves competitiveness and boosts productive and commercial activity in the Iberian market and exports, as well as providing a business platform for visitors and exhibitors, Set up and Workshop organization

5.26.2 Set up and Workshop organization

The event is organized by IFEMA Madrid. The event consists on an exhibition as well as some other activities.

5.26.3 Summary of Workshop results / expected results

Replicate was represented by the Donostia/San Sebastian pilot partner Leycolan in the year 2016. This event focused on electronics and telecommunication industry was also a good opportunity for the dissemination of the project.

5.26.4 List of participants / Participants to be invited

1.600 exhibitors participated in the fair and near 80.000 visitors attended the fair coming from 100 countries. The country of origin of the visitors is Europe in the 50% of the people followed by the 18% from South America. Half of the participants are manufacturers and installers.

Location: Madrid (Spain)

Time schedule: 20th–24th October 2016

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5.27 Smart IoT Expo, London

5.27.1 Background, introduction

Smart IoT is the premier global Internet of Things conference and exhibition. The event takes place at the Excel in London and is co-located with a number of other complementary events including Big Data World, Cloud Expo Europe, Cloud Security Expo, and Data Centre World.

5.27.2 Set up and Workshop organization

In 2018, Bristol was selected to be the Urban Showcase which centred on the Smart City space. This was a high profile opportunity to promote the REPLICATE project, and the work of other City/Regional partners were involved in.

5.27.3 Summary of Workshop results / expected results

REPLICATE took part in the Smart Cities presentation in the Bristol & Bath Smart Cities highlight theatre as a part of a City Infrastructure and the IoT session. An overview presentation of the interventions being deployed in Bristol was showcased and included the Bristol REPLICATE video and a Q&A session. Approximately 30 people attended the presentation.

5.27.4 List of participants / Participants to be invited

The Smart IoT Congress & Expo is a platform that brings together different players in the Smart Cities field, these players include: decision makers from cities and municipalities, universities, smart technology providers, universities, investors and customers. At the congress 16.250 visitors from 120 countries participated. The visitor profile was industry professionals of these over 70 % are C-level or have executive roles as key decision makers and buyers from vertical industries.

Location: London (United Kingdom)

Time schedule: 21st –22nd March 2018

5.28 EAI MOBIQUITOUS conference



5.28.1 Background, introduction

Despite the considerable research effort in the area of Ubiquitous Computing in the past decade, and the maturity of some of its base technologies, many challenges persist. The goal of the 14th Annual International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous 2017) is to provide a forum for presenting and discussing high-quality research in the field at international level, involving practitioners and researchers from diverse backgrounds.

5.28.2 Set up and Workshop organization

MobiQuitous 2017 will thus foster research collaboration through focused discussions, interaction and exchange of experiences that will designate future research efforts and directions. Areas addressed by the conference include systems, applications, social networks, middleware, networking, data management and services, all with special focus on mobility and ubiquitous computing.

5.28.3 Summary of Workshop results / expected results

ParkUs2.0: Automated Cruising Detection for Parking Availability Inference publication was submitted in relation with the REPLICATE project.

5.28.4 List of participants / Participants to be invited

EAI MobiQuitous 2017 counted with the participation of numerous practitioners and researchers coming from many different sectors. Toshiba attended the project in representation of the REPLICATE project.

Location: Melbourne(Australia)

Time schedule: 7–10th November 2017

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5.29 Eco Build 2018: Smart Homes

5.29.1 Background, introduction the future of a flexible smart energy system

The Eco-Build conference is a series of talks and exhibitions around sustainable home building. This includes smart home topics 'The future of a flexible smart energy system' which the Smart Homes Bristol project manager took part in.

5.29.2 Set up and Workshop organization

The future of a flexible smart energy system' discussed the role of smart homes in future energy systems including use of on-site renewables and demand side response. Speakers included representatives from Powervault, Energy Capital and OVO energy alongside Bristol City Council's Smart Homes project manager.

5.29.3 Summary of Workshop results / expected results

Of particular interest were OVO's plans around electrification of heat systems in people's homes with smart storage heaters. Powervault talk was informative around the increasing role home battery storage has to play in future energy systems.

5.29.4 List of participants / Participants to be invited

In total there were 3.155 conference attendees. Participants were architects, designers, consultants, clients from the public and private sector.

Location: London Excel (United Kingdom)

Time schedule: 6th March 2018

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6. ORGANIZATION OF STUDY VISITS

The **study visits** and reception of politicians, foreign correspondents, technicians from different areas are frequently organized in the lighthouse cities. This is the opportunity to present different actions in-situ and serve to communicate the project and its implementations at European level. The project has also organized study visits in the Lighthouse cities mainly oriented to the project partners, this visits also serve as an opportunity to share experiences and lessons learnt and to disseminate the implementations among the project partners.

6.1 Organization of study visits and reception of delegations

6.1.1 Background, introduction

The study visits and reception of politicians, foreign correspondents, technicians from different areas are frequently organized in the lighthouse cities. This is the opportunity to present different actions in-situ and serve to communicate the project and its implementations at European level.

6.1.2 Set up and Workshop organization

The visits are organized adapted to the group visiting the city and their interests. The speaker or the presenter varies depending on the kind of audience visiting the city.

In the case of San Sebastián the visitors could be divided in three general groups:

- 1) Groups coming to visit the city with the aim of exchanging knowledge. These groups usually receive information about the different smart initiatives as well as other actions carried out in the city. Replicate project and the implementations in the Urumea Riverside District are explained as part of the visit.
- 2) There are other groups coming specifically to learn about the Replicate or one of its specific actions. The presentation to these groups is usually more focused on the specific implementation and adapted to their interests.
- 3) Due to the participation of Fomento San Sebastian in different European projects, project meetings are celebrated in the city. Taking advantage of this audience the activities carried out in the Replicate project framework are also presented. Other kind of study visits might be also prepared. In the case of Florence thanks to its international relations activity brings to organise meeting, workshop and city visit to share experience and interest also to improve the wellbeing of the city and to achieve better results. These delegations have different interest but smart city is one of the topics and reference to Replicate project comes naturally in this contest. Bristol has a strength in Partnership working. REPLICATE was presented in detail and collaborative working

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and knowledge exchange was explored. In some instances, this included a tour of the interventions was provided.

The listed city events were organized and REPLICATE was showcased on the agenda. This was tailored to the group visiting the city and to their specific interests. The speaker or the presenter varied depending on the audience visiting the city.

6.1.3 Summary of Workshop results / expected results

San Sebastian

1. Meetings and study visits with Fomento San Sebastian

- Delegation from Colombia and Mexico, 18/11/2016, Public Administration
- Ernact network meeting, 8/03/2016, partners
- Delegation from Wiesbaden 10/11/2017,
- Delegation from Rumania 4/10/2017,
- Study visit Indian delegation, 12/12/2017, Public Administration
- Replicate project presentation to the Clean Project Staff Exchange, 21/01/2018, Scientific Community (higher education, research)
- Upgradesme Staff Exchange, 31/01/2018, Public Administration and project participants.
- Technical visit from La Habana (Cuba) 21/03/2018, Scientific Community (higher education, research)
- Study visit Japanese delegation 02/10/2018 Public Administration
- Delegation from Italy (Bologna), 05/10/2018
- Study visit Foreign Correspondents, 23/10/2018. Medias
- Study visit Foreign Correspondents: Visit to Txomin, 12/11/2018, Medias
- Delegation from Chile 15/11/2018

2. Visits to San Sebastian' electric buses:

These visits consisted on the visit to the Donostia/San Sebastian pilot partner, Dbus depot and the presentation of the Electric buses (co-financed by Replicate)

- French delegation, 30/11/2016, Public Administration.

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- English delegation, 08–09/11/2016, Public Administration
 - Buckinghamshire City Council 12/05/2016, Public administration
 - ACBA, 31/05/2016, Public Administration
 - Senda Grupo, 04/08/2016, Other (Private companies)
 - West London Councils, 09/11/2016, Public Administration
 - World Resources Institute (Mexico), 07/04/2017 Public administration and private companies
 - Luxembourg Government, 12/04/2017, Public administration
 - School of Mobility & Spatial Planning of Ghent, 25/04/2017, University
 - In Der City Bus Company (Frankfurt), 11/10/2017, Industry
 - European Transport Workers' Federation. 06/02/2018, Public Administration
3. Visits to Ikusi Agglomeration
- Visit of the Mayor and city council of Merida (Mexico) to Ikusi, San Sebastián City Council and Bizkaia Regional Council, 01/11/2016, Public Administration
 - Visit of a delegation of Colombia to the Showroom of Ikusi to go in detail about the Ikusi's Smart City solutions, 01/11/2016, Public Administration
4. Meetings with ADS Mobility Department
- Technical visit from different London Boroughs ,8–9/11/2016, Transport technicians
 - Visit from University of Bordeaux (Urban Planning Master), 30/11/2016, University
 - Visit from New–Aquitania Department, 21/09/2017, Public Administration

Florence

Cities, group of interest and the EU Commissioner took part to the following initiatives:

- Florence energy actions – Florence, 20 July 2016 (meeting and study visit with EEA network and advisors)
- Greener Florence: a dynamic, resilient, compact and smart city – Florence, 26 August 2016 (meeting and study visit with Commissioner Vella and the project partners Unifi and Silfi)
- Florence and the digital renaissance – Florence, 16 September 2016 – Wired next fest (with innovators, smart national and international cities)

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- Take your smart city to the next level by leveraging City Data – 25/26 January 2018 (workshops and study visit on Replicate project with CiOs and european smart city)
- Icitylab 2018 – Florence, 17/18 October 2018 (smart city index for cities, city tour)

Bristol

Bristol has had quite a few delegations and people attending the meetings such as Australia, Korea, US. These delegations all had different reasons for visiting the city, but were all interested in the smart city agenda and REPLICATE outcomes. Representatives of all Lighthouse projects, as well as other European initiatives and the European Commission, entrepreneurs, businesses, universities, etc. took part in the following meetings and study visits:

- Thangham Deboonaire MP 16/2/2017
- Bosch meeting 16/6/2017
- Innovate UK Smart Homes 29/11/2017
- Remobourban Nottingham 23/02/2018
- Metro Labs visit (US delegation) 7/03/2018
- Bristol Smart City Steering group 15/05/2018
- Lake Macquarie visit 6/08/2018
- Green Great Britain 10/10/2018
- UK Core Cities – Smart Cities Hub 24/10/2018
- Korean GAK programme 13/11/2018

6.1.4 List of participants / Participants to be invited

Most of the delegations are integrated by public administration members, some of them include also industry, medias or academic members.

Location: Described above

Time schedule: Described above

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6.2 San Sebastian Study Visits in the SCC01 Lighthouse projects event

6.2.1. Background, introduction

During the SCC01 Lighthouse projects event that will be held in San Sebastián between the 26th and 27th March study visits to the Urumea Riverside of San Sebastian are planned. The event is organized by REPLICATE as chair of the 14 SCC01 Lighthouse projects during the first semester of 2019. The event will be organized by Fomento San Sebastian and with the participation and involvement of the other lighthouse cities and project partners. It will be an excellent opportunity to show the implementations carried out in the city of San Sebastián and to share experiences among the different projects and the public attending the event.

6.2.2. Set up and workshop organization

Study Visits are planned to show the Urumea Riverside District, including Txomin neighbourhood, Ametzagaina Park and Poligono 27 Industrial Park. The study visits will be organized by Fomento San Sebastian.

The visit to the Txomin neighbourhood will be oriented to show the following implementations:

- The District Heating building and the presentation of the system, impacts and benefits will be explained
- The Building retrofitting action that is being held in 164 households and 34 commercial premises
- The Demand Side Platform that monitors the resident's consumption with the aim of fostering a sustainable behaviour.

The visit to the Ametzagaina park will be done in the electric buses that have been acquired in the Replicate project framework, the main facts and lessons learnt about the electric bus will be explained. The Poligono 27 Industrial park will be reached in the electric bus. This industrial park has been also benefited from the implementations of the Replicate project. Energetic building owned and managed by Fomento San Sebastian is located in the Poligono 27 and is an eco-intelligent building with zero emissions. Energetic building will host the following presentations:

- Electric vehicles that are used for maintenance and surveillance use and the e-motos of the municipal fleet will be showcased at the entrance of the building.
- Smart Mobility Platform
- Smart City Platform deployment with integrated services
- Open data and Citizen Participation Platform
- Linked Open Data

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- IP services deployment in the industrial park and high connectivity network in the whole city
- Smart Public Lighting implementation in the Poligono 27

6.2.3 Summary of Workshop results / expected results

The attendees will be able to learn about the implementations that have been deployed as part of the REPLICATE project. These visits will be a great opportunity to share and discuss about the implementations, impacts and lessons learnt. It will be also a good opportunity to showcase the involvement of the project partners and the city in the development of a district branding in sustainability.

6.2.4 List of participants / Participants to be invited

The registration has not been opened yet but the invitation will be for the project consortium partners, other SCC01 Lighthouse project partners, public institutions, companies and university members. The public will be local, national and international.

6.3 Florence Study Visits organized during the General Assembly

6.2.1. Background, introduction

During the 2017 General Assembly in Florence, the whole consortium with the European Commissioner and the European Project Technical Reviewer attended a study visit in the pilot area. It has been an opportunity to show the intervention realised in around 2 years thanks to the collaboration of the Italian consortium (City of Florence, CNR, Unifi, Spes, Tim–Telecom, e–distribuzione, Thales and Mathema together with the third parties Casa spa and Silfi).

6.2.2. Set up and workshop organization

The study visit has been organised to show the tangible and “un–tangible” interventions that were realised or on going. The starting point was Palazzo Vecchio, where a video of the project and district area interventions have been represented and the stages of the tour illustrated. It has been already explained the co–creation and participatory process adopted by the Municipality and the system thinking methodology used for the smart city plan of the city of Florence. The study visit was focusing on:

- IT dashboards at Silfi (the future manager of the smart city control room): together with Unifi, Silfi and the Municipality of Florence a first version of the dashboards of Replicate

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were shown “in practice” illustrating the goal set by the Municipality to deploy a smart city control room to manage the city, able to act and react properly

- Smart grid: with e–distribution a stop in front of one of the MV substations for advanced automation where was shown the intervention that allow the reduction of outages and the monitoring of the load, improving the quality of service and increasing the reliability / resiliency of the network, even in case of unpredictable events such as floods
- Smart lighting: together with Silfi and the Municipality of Florence the led system and the added services such as traffic control system, wi–fi service and anemometro as pilot test was shown at the Parco delle Cascine
- E–mobility: together with e–distribuzione the super–fast recharge Plus 1G stations already placed was sawn together with some e-taxi fleet that were recharging live to show how it was working
- Apps: Mathema showed a mock–up for E–taxi drivers whilst the e–taxis were recharging at the super–fast station
- IoT: smart bench and smart waste were presented by Telecom–Tim together with the Municipality of Florence at the last tour of the site visit in Santa Maria Novella square, where the bins underground are connected with sensors and the Museo del ‘900 is located, where the first smart bench took place

6.2.3 Summary of Workshop results / expected results

After the study visit finished, all the attendees had been able to see what Florence was doing as part of the REPLICATE project. The lighthouse and follower cities had the opportunity to compare and talk in detail about the technology, strategy and engagement system organised by the Municipality and the Italian consortium partners in the nearly first 2 years of project implementation. This was the first city visit of the project that permitted to all the 3 lighthouse and 3 follower cities plus each project partner to discuss all together the implementation phase.

6.2.4 List of participants / Participants to be invited

The REPLICATE project`s consortium with all the 38 members.

6.4 Bristol Study Visits organized during the General Assembly 2018

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6.4.1 Background, introduction

During the 2018 General Assembly in Bristol, the whole consortium with the European Commissioner and the European Project Reviewer, attended some study visits in different Bristol City Council venues. Whilst they attendance, they saw all the interventions that Bristol City Council and their 10 project partners had deployed through the first 3 years of the project.

6.4.2 Set up and Workshop organization

The study visits consisted in 3 venues such as City Hall, The Operations Centre and The Create Ecohome.

City Hall – Mobility, NetOS and sensors

At City Hall attendees were able to see some of the mobility initiatives, showcase the SDN integration within the NetOS system and sensors that were being developed and piloted in Bristol through presentations from project partners.

There was also a chance to find out more about the multi-modal journey planning with the Travel West Journey Planner, looking at the customer interaction and the back office software used to provide the tool.

Technology behind the ParkUs parking App was explained and how it was being tested. Including the software system for the Buzz – an electric ‘*taxi-bus*’ providing the opportunity to share journeys within the city.

E-bikes were being used by companies in the project area which are monitored through a tracking system that were shown how this is working and what will be done with the data once it’s collected.

Apart from all these mobility initiatives, the SDN integration with the IOT Platform developed by the University of Bristol using Zeetta Networks NetOS system was demonstrated. An enabler for Bristol’s unique way of involving the community in developing sensors for damp, and also for air quality, and how technology has been used to monitor the data which is measuring humidity, temperature, air quality and light.

Project partners involved: Route Monkey, Bristol City Council, Esoterix, Toshiba, Zeetta, KWMC, Co-Wheels, University of Bristol and the University of the West of England.

Operations Centre and charging point

The Bristol Operations Centre opened in October 2017 and operates 24/7 every day of the year. It incorporated four control rooms; the council’s Emergency Control Centre, the Traffic



Management Control Centre, Community Safety (CCTV) and the First West of England Bus Control Room which co-ordinates bus services across the region.

A large part of the facility's role is managing the city's traffic network and monitoring the traffic flow around Bristol. Local bus operator First West of England works alongside the council's traffic management team to provide greater reliability in public transport services.

At the Operations Centre at 100 Temple Street attendees were able to look at the how the Operations Centre and REPLICATE initiatives were working in parallel, looking at synergies, replication and scale up plans for further integration of the Smart City Platform into the Smart City Strategy. Smart lighting developments in the city was demonstrated and the link to The REPLICATE project. The District Heating intervention was also explained, illustrating its potential for scale up.

The electric vehicle charging points were going in and attendees were able visit one of the 4 charging points installed so far out of the 24 we will deploy in Bristol at Counterslip Street – some of these will be on-street charging points, and others off-street. Speakers explained where we Bristol partners positioning them and the role of Co-Wheels in promoting the use of electric vehicles locally.

Partners involved: Bristol City Council, Co-Wheels

Create Ecohome and Citizen Engagement

The Create Ecohome is a demonstration of a sustainable house, highlighting changes that can be made in our homes for a greener way of living – it is open to the public. It was been refurbished to showcase the work taking place in the REPLICATE area with smart appliances and Retrofitting – a key part of opening up the pilot project work to the wider community.

Attendees were able to hear about the Smart Appliances and Retrofitting work taking place in the project area – Ashley, Easton and Lawrence Hill, and how Bristol's Smart City Platform and Energy Demand Management System technology was being used to monitor, control and change the behaviour of households.

The visit also included a talk about the Citizen Engagement work that was taking place and how the Mobile Future Home has been successfully used to aid community discussion and engagement.

Partners involved: Bristol City Council, NEC, Bristol is Open, University of Bristol, Bristol Energy Network, Knowle West Media Centre

6.4.3 Summary of Workshop results / expected results



After the study visit finished, all the attendees had been able to see what Bristol was deploying as part of the REPLICATE project. Different lighthouse cities and follower cities were able to talk in detail about the technology, strategy and engagement approach Bristol City Council and its 10 project partners were following within the 3 years of duration of the project. This gathering was a massive opportunity for all the 3 lighthouse and 3 follower cities plus each project partner to discuss around how to begin the next period of replication, monitoring and evaluation.

6.4.4 List of participants / Participants to be invited

The REPLICATE project`s consortium with 38 members.

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7. WORKSHOPS WITH OBSERVER CITIES

Apart from the Lighthouse and Follower cities, the project gathers to include “observer” cities which can exchange experiences and learn about Replicate. The project has been working on the relationship with the observer cities and has established the role of these cities as well as the benefits and commitments of them. A procedure has been developed for the observer cities and information about it will be published in the project webpage.

The project foresees the organization of workshops targeting the observer cities, A **workshop with the Observer City** of Guangzhou in China is being organized to consider the specific interest shown by the Observer city on the city of Bristol.

7.1 Workshop with Guangzhou

7.1.1 Background, introduction

Guangzhou, China is an Observer city of the REPLICATE project and a sister city of Bristol. Guangzhou is the third largest economic city of Chinese mainland and the Capital of Guangdong Province. It is the political, economic, technological, educational and cultural centers of Southern China and is one of the most important transportation hubs in China.

Guangzhou covers an area of 7,434 square kilometers, and with a population of roughly 11.85 million. It is the most populous city in the province and the third most populous metropolitan area in China. Guangzhou’s urban land area is the third largest in China, behind only Beijing and Shanghai. The city has a specific interest in smart transport and energy initiatives which align with REPLICATE deliverables.

Bristol has had an ongoing relationship with Guangzhou since it twinned in 2001, but more recently has discussed and renewed the relationship to include Smart City initiatives when it agreed to be an Observer City of Replicate in 2016. Guangzhou agreed to be one of the ‘observer’ cities giving the opportunity to take part in learning from the REPLICATE project and disseminating the results.

Mayoral Visit to Guangzhou

In December 2017, the Mayor of Bristol – Marvin Rees – visited Guangzhou to attend the international Fortune 500 Conference and to strengthen the ongoing relationship between Bristol and Guangzhou. The international Fortune 500 Conference – Fortune Global Forum – was held on 6–8 December 2017 and had a focus on innovation and Smart City development. Participation



in the Fortune Global Forum is by invitation only and guests included multinational CEOs and the heads of China's most important companies, along with world leaders.

Guangzhou has shown a particular interest in how we use data, how we progress the smart city agenda and the community engagement and partnership approach strongly embedded in Bristol and underpinning the deployment of the interventions in REPLICATE.

While at the Forum, a bi-lateral meeting with Mayor Wen Guohui and Mayor Rees was held where it was agreed the two cities would continue to work on Smart City development and follow the outcomes of the REPLICATE project, while developing future relationships and collaborative projects within the Panya district of Guangzhou city.

As a part of this visit, Mayor Rees took part in showcase of smart city initiatives in Guangzhou including VR and in a bi-lateral meeting.

Participants in the bilateral meeting photographed above included:

Marvin Rees – Mayor of Bristol

Shelley Nania – Bristol Head of International Affairs

Karen Maddocks – British Consul General

Wen Guo Hui – Mayor of Guangzhou

Liu Bao Chu – Director General of Guangzhou Foreign Affairs Department

There were 4 conference themes over the 3 day event:

- Innovation Revolution
- The Future of Globalisation
- 21st-Century Leadership
- Sustainable Development

7.1.2 Summary of expected results

The focus is on a bilateral meeting between the mayor of Bristol and the mayor of Guangzhou and the further development of Smart City, as well as the following of the outputs of the REPLICATE project.

As a part of the visit to Guangzhou, Mayor Rees was shown some of the city initiatives being deployed. Through wider knowledge exchange and sharing city-to-city learning, it was discovered that both cities could do and learn more to share their experience from each other. Bristol and Guangzhou are now exploring the opportunity to create an Exchange Programme to benefit both cities and support the learning from the REPLICATE Project to assist Smart city business models and scale up by hosting a seconded officer exchange in Bristol for a period of 2-3 months.

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Bristol – Guangzhou exchange

Based with the REPLICATE project team at Bristol City Council, the officer will:

- Work with the REPLICATE team to support the scaling up of the project and the development and validation of a City Business Model based on economic, social and environmental sustainability (that could be applied in either Bristol or Guangzhou)
- Support knowledge exchange between the Lighthouse' and 'Follower' cities, with a specific focus on sharing learning between Bristol and Guangzhou
- Develop a plan for disseminating learning in Guangzhou and more widely in China
- Work with the Bristol smart cities team to develop future smart city collaborations between Bristol and Guangzhou.

7.1.3 List of participants involved/ Participants to be invited

Bristol City Council was represented by Head of International Affairs, International Affairs Officer and the Replicate Project Manager

Location:

Fortune Global Forum **Guangzhou**

Secondment host **Bristol City Council**

Time schedule:

6th–7th December 2018

To be determined

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8. PROJECT CONSORTIUM OFFICIAL MEETINGS

The **Project consortium official meetings** are organized to ensure the proper information management and progress of the project; several meetings are organized with the participation of the partners of the consortium. In total 7 official meeting were organized from 2016 until October 2018. Although the main purpose of these meetings is not the dissemination, the impact on the cities and the involvement of different authorities make them an important activity in terms of communication.

8.1 General Assembly and Executive Board meetings

8.1.1 Background, introduction

To ensure the proper information management and progress of the project, several meetings are organized with the participation of the partners of the consortium. Of these the General Assembly of the project which is organized once a year and includes all the partners and the Executive Board meetings that are held twice a year and include the work package leaders should be mentioned. Apart from the work related to the project, these meetings are also a tool to disseminate and communicate the project actions.

8.1.2 Set up and Workshop organization

The General Assembly meetings are organized in the lighthouse cities and the executive board meetings in the follower cities. The work content is leaded and prepared by Fomento San Sebastian as project coordinator together with the different project partners or work package leaders. Each city is the organizer of the logistics for the event and of the side activities organized.

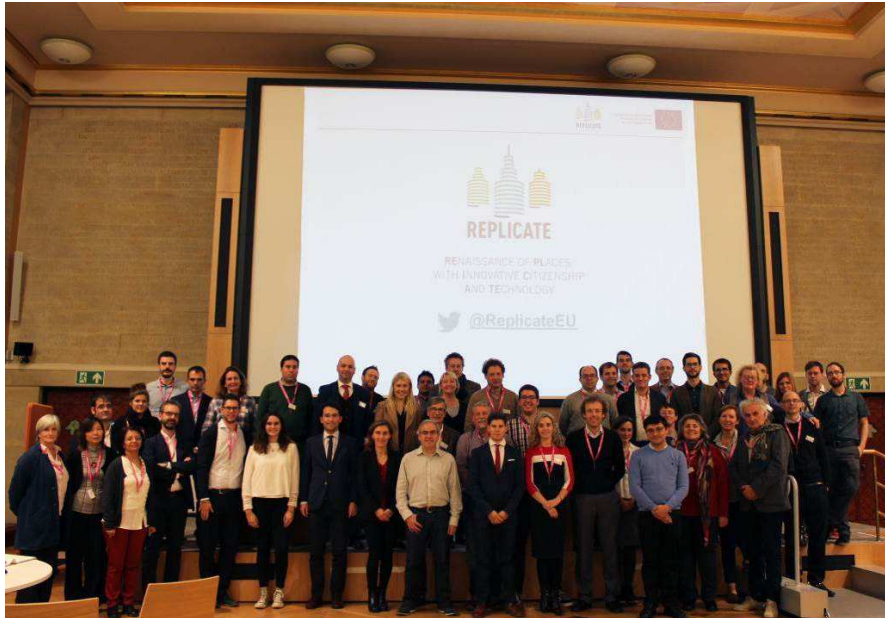
8.1.3 Summary of Workshop results / expected results

These meetings have been celebrated:

- Kick of meeting in San Sebastian, February 2016
- Executive Board in Lausanne, June 2016
- General Assembly and Executive Board in Bristol, February 2017
- Executive Board in Essen, September 2017
- General Assembly and Executive Board in Florence, October 2017
- Executive Board Nilüfer, May 2018

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- General Assembly and Executive Board in Bristol, October 2018



Picture 12. The members of the Replicate Consortium in the General Assembly

Apart from the meetings, study visits are done which serve to disseminate the implementations in each city. The meetings, together with other activities, are a good opportunity to maximize the impact of the actions and communicate them to the consortium and to other participants.

8.1.4 List of participants / Participants to be invited

All the consortium partners participate in the General Assemblies as well as in the first Kick of meeting organized in Donostia/San Sebastián. Executive Board meetings are attended by different work package leaders.

Public Authorities of the city attend or present some part of the meeting. The two General Assemblies celebrated have been organized together with the review meeting of the project that it is done by the European Commission Project Officer.

Location: Described above

Time schedule: Described above

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9. INNOVATIONS, IMPACTS AND SCALABILITY

The participation in the different events contributes to enhance the impacts of the project showcasing the implementations and its results. Depending on the specific workshop or activity the innovative solution, social and environmental impacts have been illustrated. The economic feasibility and replication and scalability potential of the implementations have been covered in some of the workshops too.

This document describes the participation in **more than 90 activities** that have contributed to present the project and disseminate its implementations, to showcase and exchange the ideas and good practices, to discuss the project results and to spread the outcomes and implementations. The activities were distributed as follows:

- 40 of these activities were participation on different events. There are events where involvement and effort were remarkable due to the participation in more than one presentation or activity in the same event.
- Approximately 40 of the described activities were study visits.
- 1 visit has been done to one of the observer cities to contribute with the experience exchange. And 1 workshop is expected.
- 7 of these activities were project internal meetings.

Due to the different nature of each of the events presented, the number of people attending varies significantly from one kind of event to other as well as the type audience. Estimations can describe that the **potential audience reached** has been the following:

- Number of participations on conferences or workshops with near 50 attendees: 18
- Number of participations on conferences or workshops with 100 attendees: 9
- Number of participations on conferences or workshops with 500 attendees: 2
- Number of participations with a stand on exhibitions with more than 500 attendees: 1
- Number of participations with a stand on exhibitions with more than 1.000 attendees: 10
- Others (that include study visits, meetings etc), establishing an average of 30 people: 49

Although these numbers are approximate and the real impact on people is difficult to measure, it could be said that the potential people reached due to the different activities described in the document is of **15.000** people.

The audience of the events includes European institutions, authorities, city representatives, industry, civil society and medias among others.

Usually the participation on the different activities and events is supported by different **dissemination material** that the project has created, this material includes power point presentations, flyers, roll ups, videos etc. which support the presence in the events and increase the visibility of the project.

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The implementation of new technologies, services and methodologies to save energy and avoid environmental pollution is in many cases linked with a change of behaviour in the society. To achieve a change in behaviour in society, different levels are necessary. In that sense the listed activities can be seen as the starting point. With the presentation of innovations in the fields of ICT, energy and mobility to decision makers, influencers and representatives, who shall disseminate the news to all levels of society the social impact of the workshops and conferences is an indirect but very important one.

The activities are also usually promoted in different medias. The **project webpage** has published **30 articles** in regard to the events described in this document and promotion via twitter is also done. This promotion permits to increase the impact, reaching more people and contributing to the awareness of the different topics related to the project. This effort on communication also shows the commitment of the project on the dissemination and communication activities. Each city and project partner also contribute to the dissemination of the activities and results using different communication tools (twitter, webpages, newspaper etc).

The involvement on the different events, meetings and study visits shows the commitment of the lighthouse cities and project partners that have participated in those events. A significant number of companies participating the events were SMEs. The involvement into workshops provides the SMEs opportunities to introduce their products/services to an international and interdisciplinary audience. The feedback helps to make further improvements and increase competitiveness.

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10. CONCLUSIONS

The REPLICATE project and its partners have participated actively in a number of events addressed to deepen and to disseminate the findings of the project in the areas of energy efficiency, sustainable mobility and ICTs/Infrastructures that contribute

As described with this deliverable the REPLICATE project partners have participated in several events since the beginning of the project, this participation shows the commitment and involvement of the project on the dissemination and communication activities.

The key objectives of the project were considered quite homogenously by the events performed. The majority of the events were addressed to the three technological domains building the key objectives. The technological domains were quite closely linked to each other.

The type of event used the most by the project partners were conferences, sometimes including an exhibition closely linked to the technological issues covered by the project objectives.

Regarding the participation of the Lighthouse cities the three cities of San Sebastián, Florence and Bristol were well distributed across the technologies and events concerned. Apart from the Lighthouse cities, the follower cities and partners, including Universities, companies and technology centers have represented the project in different events. The participation of different type of partners has contributed to spread the project outcomes from different points of view and shows the commitment of REPLICATE in the organization and participation of different activities. Participation of the REPLICATE project partners was either following any research findings, exchanging ideas with other participants, etc.

The participation and organization of the previously explained events has led to maximize the impact of the Replicate project, as well as to the fulfillment of the presentation and dissemination of its implementations, the showcase and exchange of ideas and good practices and the spread of outcomes and implementations.

Replicate project will continue working on the dissemination of the project at European level to maximize the impact of the outputs reached. In this sense the SCC01 Lighthouse Event that will be hosted in San Sebastian in March 2019 and organized by Replicate's coordinator Fomento de San Sebastian as the chair of coordination of the 14 Lighthouse projects shows the involvement of the project on the dissemination and communication at European level.