



# "Development and validation of a sustainable City Business Model to be replicated in other cities and districts"

San Sebastián pilot partners:







































This project has received funding from the European Union's Horizon 2020



DONOSTIA/ SAN SEBASTIÁN (Spain)

BRISTOL (United Kingdom)



**FLORENCE** 

(Italy)

VILÜFER (Turkey)

Coordinator: Fomento de San Sebastián (38 partners).

3 cities: San Sebastián, Florence, Bristol. 3 followers: Essen, Lausanne, Nilüfer. 2 observers: Bogota, Guangzhou.

Budget: 29,3 millions €.

**INSIGHT** 

# 5 years (60 months) project

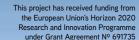
Starting date: 01/02/2016. Y1-Y2-Y3 Implementation. Y4-Y5 Monitorisation.

Our vision: 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.

### SCC1 SMART CITIES LIGHTHOUSE

CALL: SCC-01-2015 - Smart Cities and Communities solutions integrating energy, transport, ICT sectors through lighthouse projects (big scale demonstrators).









**LIGHTHOUSE** 



www.replicate-project.eu info@replicate-project.eu @ReplicateEU





Donostia / San Sebastián: 186.377 inhabitants Metropolitan area: 324.511 inhabitants

# High quality of life:

gastronomy, culture, sports... in a special natural and architectural environment.

# URUMEA RIVERSIDE DISTRICT

An integrated strategy aiming for a smart district

- Residential area (Txomin, Antzieta, Martutene)
- + Industrial Park (Poligono 27) + Green Park (Ametzagaina).
- 200 hectares of surface.
- Industrial Park: over 350 companies and almost 4.500 people.
- · Largest green park of the city: carbon sink.

**Nearly zero emissions district:** district branding in sustainability

**Enhacing the transition process to a Smart City** 

- in 3 areas: SEE Energy Efficiency
  - **Sustainable Mobility Sustainable Mobility**



# HE DISTRICT: URUMEA RIVERSIDE DISTRICT



## **MAIN ACTIONS**



### **ENERGY EFFICIENCY:**

**Building Retrofitting:** in 156 dwellings + 34 commercial premises, distributed along 10 doorways. **District heating system:** Service to more than 1.500 new properties +156 existing dwellings. Power plant with 7400 kW of power, with two 1400 kW biomass boilers. Environmental benefits: reduction of 35% in primary energy consumption, being over 90% of this energy renewable. CO2 emissions reduced by 85%. Service is to be owned by Fomento de San Sebastián. **Demand Side Platform:** monitoring of residents consumption fostering sustainable behaviour.



### SUSTAINABLE MOBILITY:

Electric buses: 2 full electric + 2 hybrid buses for line 26 to link the district with city centre.

Public EV: 4 EV and 6 e-motos for municipal fleet.

**Private EV:** 12 e-taxi + 5 EV distribution fleet through monitoring.

Charging infrastructure deployment in **the city:** gas stations, parkings, private. Mobility Smart City Platform and advanced mobility services development.



#### **ICT & INFRASTRUCTURES:**

Smart City platform deployment with integrated services.

Open Data and Citizen Participation services.

IP services deployment in Poligono 27 and high speed connectivity network deployment for the whole city.

Smart Public Lighting deployment in Poligono 27.



REPLICATE AND TECHNOLOGY



- -Strategic planning, business models and exploitation.
- -Replication and scale-up.
- -Monitoring.

