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# Community based approaches to engaging and raising awareness of sustainability and energy saving

Some examples from the Bristol Pilot  
of the **REPLICATE** Project

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## 1. Overview of the REPLICATE Project

## 2. The Bristol Pilot

## 3. Citizen engagement examples

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- **NOTE:** this is not the only engagement work we are doing, there are other initiatives outside of the project.

# Project Overview



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**RE**naissance of **Pl**aces with  
**I**nnovative **C**itizenship **A**nd  
**TE**chnology

[www.replicate-project.eu](http://www.replicate-project.eu)

[info@replicate-project.eu](mailto:info@replicate-project.eu)

@ReplicateEU

@ConnectingBristol

[www.connectingbristol.co.uk/replicate](http://www.connectingbristol.co.uk/replicate)



# Project Overview



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**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 €

**5 years (60 months) project**

Y1-Y2-Y3 Implementation

Y4-Y5 Monitoring

Starting date: 01/02/2016

# Partners



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THALES



Esoterix



ESSEN



# Project Overview



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## ENERGY EFFICIENCY ACTIONS



**Building Retrofitting** in 696 dwellings and 34 commercial premises

**District Heating System**

Smart Grid and **Demand Side Platform**

## SUSTAINABLE MOBILITY ACTIONS



Acquisition/Monitoring of 27 EV Cars, 26 e-motos, 4 e-buses, 112 e-taxis, 32 e-bikes

**Advanced Charging Infrastructure**, 256 charging points

Transport Management services for Citizens

## ICT AND INFRASTRUCTURES ACTIONS



**Smart City Platform** integrating current Local IT System

Deployment of services and sensors

**High Speed Wireless Mobile Network** deployment

**Public Smart Lighting** deployment

# Project Vision

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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



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The **REPLICATE** Project in Bristol aims to  
**improve quality of life**  
in  
**the pilot area**  
by  
**working with people**  
to  
**explore how technology could  
help to tackle important local issues.**



# Themes



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## Smart Homes

1. Retrofit and smart homes (240, 150 smart)

2. District heating connection

3. Community PV Investment (587 kWp)

4. Energy demand management system

## Smart Streets

5. Electric Vehicle charge points (24)

6. Electric Vehicles – car club (6), corporate e-bikes (32)

7. Electric Vehicles – on-demand taxi/bus (2)

8. Travel planning – TravelWest

9. Travel planning – Parking app

## Created By Us

10. Integrated Infrastructures – citizen sensing

# Our Living Lab Knowle West Media Centre



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- **Collaboration**
- **Multiple voices**
- **Power**
- **Experimental and Collective**

# Collaboration



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Easton and Lawrence Hill  
**Festival of Solutions 2017**  
Ideas, inspiration and community-led solutions

**Saturday 25 March - 11am to 6pm**  
Easton Community Centre, Kilburn Street

- 11:00 - Refreshments and welcome  
Hear about Bristol's Resilience Strategy and the REPLICATE Project which is exploring new technology for smarter streets and homes
- 12:00 - Up Our Street presents findings from its community research
- 12:45 - Join us for a free lunch
- 13:30 - Citizen solutions workshops  
Got ideas? Hear from inspiring people and share your ideas  
Vote for the five project ideas you think should get funding
- 15:00 - Screening of Tomorrow (Demain) with drinks and discussion
- 18:00 - Close of event

Organised by Up Our Street  
@upourstreet  
#UpOurStreetFest  
www.eastonandlawrencehill.org.uk  
Call 0117 954 2834 to book

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101017718

**COMMUNITY DAY**  
**FRIDAY 7<sup>TH</sup> APRIL, 2-5PM**  
St Paul's Learning Centre, 94 Grosvenor Road St Pauls, Bristol, BS2 8XJ

**ROBOT WORKSHOP**

Want to build things that do things?

Come to the ThingsCamp Drop-In Day.

An afternoon of hands-on activities exploring new technologies and how we can all use them (or just play with them).

For more details contact Simon:  
[admin@thingscamp](mailto:admin@thingscamp)

**SENSORS**

**MINECRAFT**

Anything else we can connect to the internet!

**KWMC** **UWE Bristol**

**ARTS COUNCIL ENGLAND**

All ages are welcome and no tech experience is necessary!

Families are very welcome. Children must be accompanied by adults.

There is also a ThingsCamp event in At-Bristol on 8th April; [thingscamp3.eventbrite.co.uk](http://thingscamp3.eventbrite.co.uk)

# Multiple Voices



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# Power



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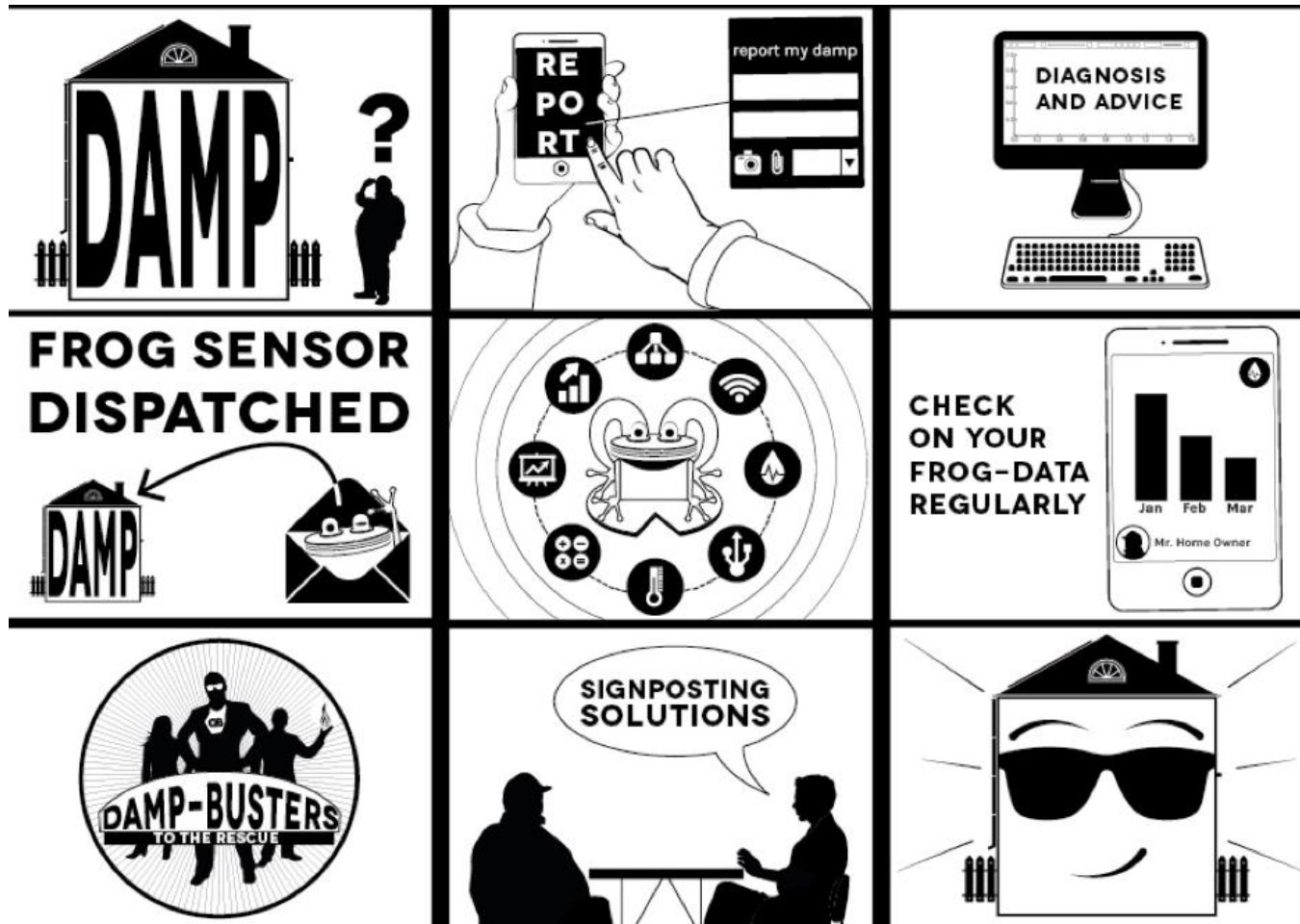




# Experimental



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# Experimental



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Thank-you!