



Sharing Cities 2016-2021

DEVELOPING CLEAN, GREEN AND HEALTHY CITIES TO
HELP MEET NET-ZERO TARGETS



This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement N° 691895



To be a part of the solution to reduce carbon emissions and support clean, green and healthy cities, London, Milan, Lisbon, Burgas, Warsaw and Bordeaux collaborated on Sharing Cities – a six-year challenge to deploy green technologies in their respective cities, funded by the European Union’s Horizon 2020 initiative.

Cities are major contributors to climate change. They use a large proportion of the world’s energy supply, yet they account for less than two per cent of its surface. To be a part of the solution to reduce carbon emissions and support clean, green and healthy cities, London, Milan, Lisbon, Burgas, Warsaw and Bordeaux collaborated on Sharing Cities – a six-year challenge to deploy green technologies in their respective cities.

Since the major smart city initiative began in 2016, Sharing Cities has proven the potential for environmentally focused technologies to positively impact cities. Technologies deployed across the cities to reduce carbon emissions, improve energy efficiency, and encourage people to make more sustainable choices resulted in a significant reduction in CO2 and greenhouse gas emissions and generated €265m in further investment in the smart city marketplace.

All 10 technologies tested by cities were planned around the needs of people, with sustainable behaviours incentivised through initiatives such as Digital Social Markets – an initiative that rewards people for making sustainable choices such as walking or cycling to work.

Partnerships between city municipalities, private industry and academia helped to build a strong network of EU cities working together with London to tackle the climate emergency. This network will extend beyond the lifespan of the programme, with new city-driven collaborations taking shape for climate action.

Over the course of the programme, tools such as smart city guides – or playbooks - were developed to help other EU cities replicate and fast-track similar solutions within their own city contexts. The playbooks have been part of a larger collective effort to scale-up Sharing Cities technologies across the EU, driving innovation and investment activities in other European cities. The programme’s legacy is now a catalyst for continued efforts in each city to reduce carbon and greenhouse gas emissions and meet net zero targets.



SHARING CITIES IMPACT

London, Lisbon and Milan



4,500

Tons CO2 emissions saved as a result of shared mobility measures across the cities. **This is 70% more than the expected impact.**

50%

Energy savings from retrofits to buildings in Milan, Lisbon and Greenwich over an area of 67,612 m2.



€265M

Additional investment triggered as a direct result of Sharing Cities to accelerate the shift to greener and more energy efficient cities.

6,124,500kWh/yr

Decrease in building energy needs as a result of energy efficiency measures retrofitted to buildings across Milan, Lisbon and Greenwich.

900

Dwellings retrofitted with energy efficiency measures in Milan, Lisbon and London.

1,600

e-Vehicles deployed across London, Lisbon and Milan.



2,300

e-Mobility assets deployed across London, Lisbon and Milan.



4,200

Digital Social Market users in Milan, Lisbon and Greenwich participating in local sustainable behaviour change actions.

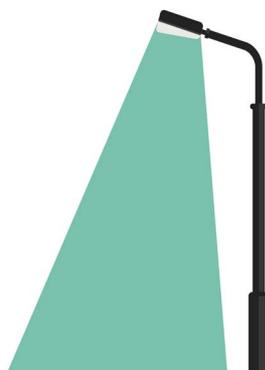
2,400

Smart lampposts in Milan, Greenwich and Lisbon upgraded with smart features to provide energy management, mobility, environmental monitoring, and other services centred around citizens' needs.

An increase of 153% more than initially planned

€20,000

Awarded to Nuno Gonçalves 2/3 Basic School in Lisbon to invest in 'eco-interventions' at their school for energy savings via the Sharing Lisboa app.



REPLICATION CITIES IMPACT

Warsaw, Burgas and Bordeaux

500

e-Cars are now available under a scheme with the City of Warsaw. **This is the third largest e-vehicle car sharing scheme in Europe.**



30 Private condominiums in Bordeaux supported by Sharing Cities to kick off an energy renovation and retrofit programme.

Feasibility studies are underway to introduce three climate-friendly solutions in parking lots in Warsaw thanks to Sharing Cities.

Thanks to work done by Milan, Lisbon and London, Bordeaux achieved its goal to have a fully operating urban platform in 2022.

200

Private and public buildings are now being retrofitted in Burgas thanks to Sharing Cities.

50

Additional e-bikes added to the Burgas bike sharing system, with design of the first mobility island underway.

11 New charging stations installed in Burgas, with 15 more planned in 2022.



30 Digital water metres have been added to the municipal water platform in Burgas.

SCALE UP STORIES

Sharing Cities partners had an ambitious goal to scale-up successful green technology solutions deployed in their own cities across other parts of the EU. Together, partners leveraged a total of €265 million in further investment in the EU smart city marketplace.

WARSAW'S PARK & RIDE FOR CLIMATE

Thanks to lessons learnt from Sharing Cities, Warsaw is in the process of implementing an ambitious scheme to retrofit 'Park & Ride' facilities across the city under its 'Park & Ride for Climate' programme. The scheme is designed to boost the use of e-mobility and reduce congestion, combining renewable power management with green infrastructure. The pilot project was initially launched at existing 'Park & Ride' locations along Polczynska Street, Warsaw. Currently, these can accommodate 500 cars and 20 bikes. Now, there are 15 locations equipped with 26 charging points that can accommodate 4,500 cars and 800 bikes.

Polczynska 'Park & Ride' will become an almost self-sufficient and resilient energy island.

MILAN'S MOBILITY AREAS

Mobility Areas are part of a wider strategy in Milan to reduce carbon emissions and the use / ownership of private cars. By promoting more electric and shared mobility options, the city hopes to encourage its citizens to choose more sustainable travel modes.

Mobility Islands aim to provide affordable access for all those travelling in and around a city; a choice of convenient sustainable mobility options and related services, all within less than a 5-minute walk.

The city has established 10 mobility areas in the Sharing Cities demonstration area and has committed to expand these areas to 43 locations city-wide; and scale-up plans don't end there – Milan is also considering a major expansion at its metro and regional level.

LISBON'S GIRA SCHEME

To help realise its new strategy for mobility, Lisbon rolled out its first bike sharing scheme, GIRA, in 2017. As Lisbon lacks a cycling culture or tradition, it was vital to plan and deploy the scheme carefully. The Sharing Cities pilot proved a big success, so the GIRA scheme was rapidly expanded to across nearly the entire city.

GIRA is owned and run by EMEL, the municipal mobility company that also manages the city's parking infrastructure. The scheme now has 2,000 bikes (50% of these are e-bikes). Lisbon plans to expand the scheme further, especially in residential suburbs.

As an indirect result, the city has increased bike lanes too, with provision expected to double (to almost 200km) by 2022. They are also expected to have 4,000 e-bikes in the next few years.



RESOURCES



Sharing Cities is funded by the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 691895.

It was produced by Sharing Cities partners indicated by the logos below.

Sharing Cities Playbooks

<https://www.sharingcities.eu/sharingcities/resources>

Sharing Cities YouTube

<https://www.youtube.com/c/sharingcitiesprogramme>

Horizon 2020 Programme

<https://ec.europa.eu/programmes/horizon2020/en/home>

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