

Multimodal and cycling platform adapted to climate change



LIFE CITY ADAP 3

Alcantarilla (Spain)

171,608.92€

1 year

CO-FINANCING COMPANIES

ASEPIO

PLASREL
Plásticos S.A.U.

AZUD

olon Derivados Químicos

HIROGEA

COPELE

Endeco
Entidad de Conservación

Nutrafur



MAIN OBJECTIVES

1

Contribute to the adaptation to climate change of the urban environment, **improving resilience** and reducing vulnerability to heat waves and droughts

4

Use **adaptive criteria in urban infrastructure development**

2

Design a **standard platform** that completes the **sustainable mobility** network of Alcantarilla and that can be replicated in other cities

5

Improve the design and management of **green areas**, in relation to sustainability and adaptation to climate change

3

Adopt **nature-based solutions to solve urban challenges**

6

Improve the **"usability" of municipal services** and equipment by citizens

CLIMATE RISKS ADDRESSED

- Temperature rise
- Decrease in precipitation

To request the full technical document on the design of this pilot action, send an email to lifecityadap3@fmr.es

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DESCRIPTION OF THE ACTION

- **Pedestrian walkway** formed by modular concrete pavement with a large drainage capacity. High strength concrete with siliceous, granitic or basaltic aggregates. 20 % recycled material. Photo-catalytic component with the ability to decontaminate the air from nitrous oxides and other contaminants.
- **Cycling platform executed** by continuous pavement of porous concrete for outdoors, which incorporates photoluminescent arid. Arid photo-luminescent in areas where artificial lighting is non-existent or deficient.

Both pavements placed on a base layer of granular filter material selected on a geotextile geolayer, for the natural filtration of water into the soil.

- **Floodable flowerbed** with native species to reduce the heat island effect: *Morus alba*, *Celtis australis*, *Ceratonia siliqua*, *Lavandula dentata*, *Myrtus communis*, *Salvia rosmarinus*. "Urban trees" made of wood in areas where it is not possible to incorporate vegetation.

Platform with slope of 2 % towards the flowerbeds so that surface water that cannot accumulate and does not leak, reaches the flowerbeds. The excess water is collected by a drainage system and is driven to nearby flood gardens.

Impacts (monitoring results)

You can consult the data related to the humidity of the asphalt, the use of the bike path and the meteorological data of the environment of the platform in real time at the following link:

<https://life-alcantarilla.hopu.eu/d/5ESgCvF4z/menu-principal?orgId=1>

Soon, we will analyse the benefits of the platform at the local level

