

# Urban regeneration in Les Roquetes neighborhood, Barcelona

by [Pedro Lasa](#) / 2017-05-26 14:49:27 / España / 11987 / ES



**Address 1 - street** : Carrer de BARCELONA, España

**Starting year of the project** : 2016

**Delivery year of the project** : 2017

**Key words** : Urban naturation and regeneration, sustainable drainage, dusi strategy, adaptation and mitigation of climate change



0.4 ha

**Proposed by :**



## ID CARD

Reconversion of a conventional surface parking located in the upper part of the city of Barcelona. The waterproofed surface of the parking lot contributed to generate important run-offs, with consequent drags and increased pollution, increased flooding, increased frequency and intensity of systems discharges in rainy weather, overloads in the sanitation network ... which cause problems in the lower parts of the city. It is transformed into an underground car park, releasing the surface and recovering the landscape by incorporating sustainable drainage techniques and solutions based on nature. The objective is to intercept, filter, retain, laminate and infiltrate the rainwater falling on the plot itself, as well as all that arrives from the adjacent upper streets, thus relieving the hydraulic load within the existing sewer network. The elements that are part of this sustainable rainwater management system are: filtering drains, bioretention zones, rain gardens and reservoirs / infiltration systems to replenish the water table, among others.

## Programme

- Public facilities and infrastructure

- Public spaces
- Green spaces
- Others

## Project progress

- Delivery phase

## Key points

- Quality of life
- Smart city
- Resources
- Biodiversity
- Energy /Climate

## More info

<https://www.construction21.org/espana/contest/es/green-solutions-awards-2017-ciudades.html>

## Data reliability

Assessor

## TERRITORY

### Type of territory

Urban zone in high part of the city.

### Climate zone

[Csb] Coastal Mediterranean - Mild with cool, dry summer.

## KEY FIGURES

### Total investment costs (before tax)

Total investment costs (before tax) : 1 500 000 € HT

## GOVERNANCE

### Project holder

Name : Barcelona City Council / BAGURSA

Type : City

General description :

Barcelona Gestió Urbanística, SA (BAGURSA) is a municipal company whose objective is the promotion, management and execution of urban activities, as well as the execution of urbanization works and the provision of services derived from these activities.

### Project management

Description :

City council and association of neighbors: it is agreed to transform a parking area into an underground parking and an urban park open to the public, with play areas, living areas ... with the local commitment to get involved in the maintenance of green infrastructures.

### Project stakeholders

Barcelona City Council / BAGURSA

Function : Developer

Roberto Soto

[Construction21 company page :](#)

EUROCATALANA Obres i Serveis

Function : Construction manager

[Construction21 company page :](#)

SUDS, SL

Function : Technical consultancy agency

Pedro Lasa

[Construction21 company page :](#)

QUALITY OF LIFE

ECONOMIC DEVELOPMENT

RESOURCES

Contest

## Reasons for participating in the competition(s)

- Mejora ambiental y paisajística del entorno
- Rehabilitación hidrológica urbana mediante soluciones basadas en la naturaleza
- Control en origen de calidad y cantidad de escorrentías
- Infraestructura hídrica integrada en el paisaje
- Aumento del grado de permeabilidad
- Reducción del Efecto Isla de Calor (EIC)
- Aumento de la biodiversidad
- Mejora de los servicios ecosistémicos
- Multifuncionalidad de la parcela

## Building candidate in the category

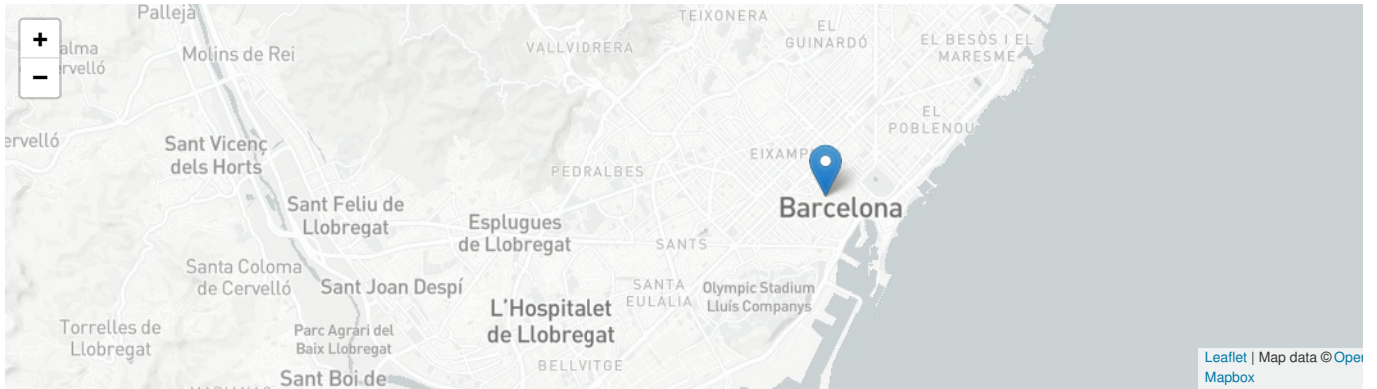


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