



Country / City Portugal / Porto

University / School University of Porto / Faculty of Sciences

Academic year 2017/2018

Title of the project Garden Manuel Bandeira

Authors Gabriela Pedrosa; João Soares; Maria Martins; Rui Bernardes





PERFORMATIVE NATURE

Barcelona International Landscape Architecture Biennial

September 2018 **Barcelona**

SCHOOL PRIZE

X International Landscape Architecture Biennial

Máster d'Arquitectura del Paisatge -DUOT - UPC

ETSAB- Escola Tècnica Superior

d'Arquitectura de Barcelona

Avenida Diagonal, 649 piso 5

08028 Barcelona-Spain

TECHNICAL DOSSIER

Title of the project	Garden Manuel Bandeira
Authors	Gabriela Pedrosa; João Soares; Maria Martins; Rui Bernardes
Title of the course	Bachelor in Landscape Architecture
Academic year	2017/2018
Teaching Staff	Isabel Silva; Nuno Costa; Paulo Marques
Department/Section/Program of belonging	
University/School	University of Porto

Written statement, short description.

The proposed garden is located in the city of Porto, in the neighborhood of Rua Manuel Bandeira, close to a large business center. It has an area of approximately 1.3 hectares and is surrounded by residential buildings. The intervention area is located at a level below the main surrounding streets (3 meters on average). The main identified problems were: the lack of pedestrian accessibility through the site; excessive car traffic and abusive parking during the day; a high degradation level of the existing green and built structures.

This proposal aims at the rehabilitating of the green space, creating a coherent, inclusive and well-connected space. The garden is structured around a large central clearing, that is designed as a water retention basin with riparian vegetation on its edge. The clearing design also influences other smaller space, with different planting design approaches to provide diverse experiences and recreation opportunities.

New entry points were created, providing equal access for everyone in particular those with limited mobility. This was achieved by the design of pedestrian paths with a comfortable slope and flat levels every 10 meters; an example of this design principle can be found in the south entrance.

A long drainage swale, bordered by the trees was created alongside the proposed shared streets. The planting design protects the inner garden from the visual impact caused by cars, whose access is limited to residents to avoid abusive parking. Car circulation within the garden is assured by a shared street for lower speed and better safety.

The proposal provides resting opportunities through the creation of squares, equipped with urban furniture, with simple and discreet design, to direct the attention of the users to the planting design.

The garden was designed to provide a diversity of spaces, allowing a pleasant and inclusive experience across the site.

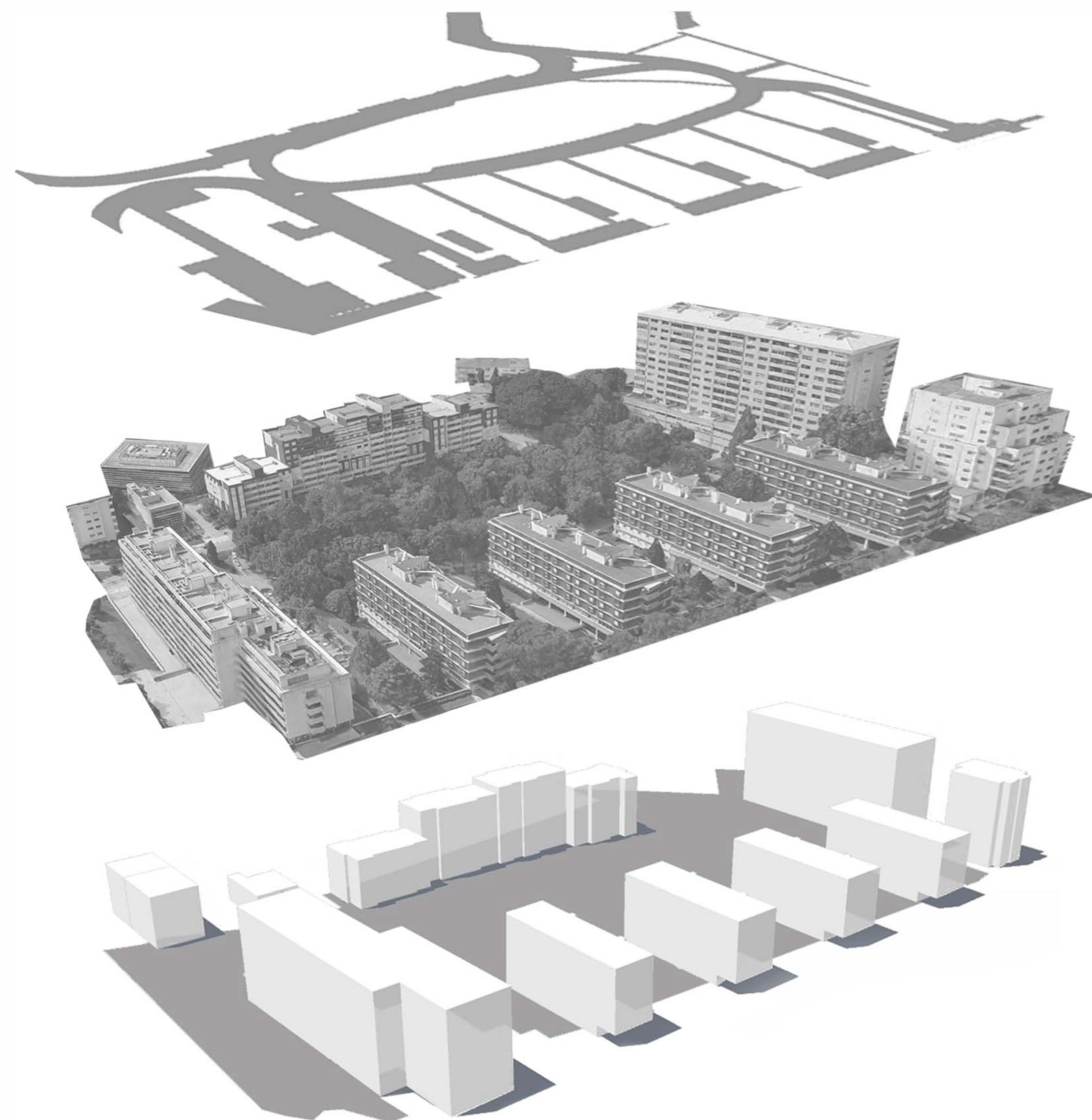
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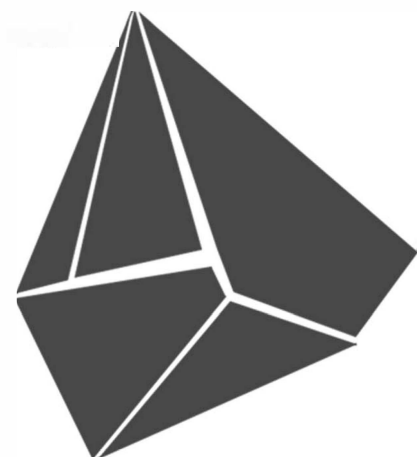
Consult the web page <http://landscape.coac.net/>



EXISTING

The garden is located in the city of Porto and is located close to a large business center. With an area of about 1.3 hectares, the garden is surrounded by residential buildings and partially located below the main surrounding streets. The main problems detected were: the lack of pedestrian paths through the site; an excessive car traffic and car parking during the day; the high degradation of vegetation and built structures.

GARDEN MANUEL BANDEIRA



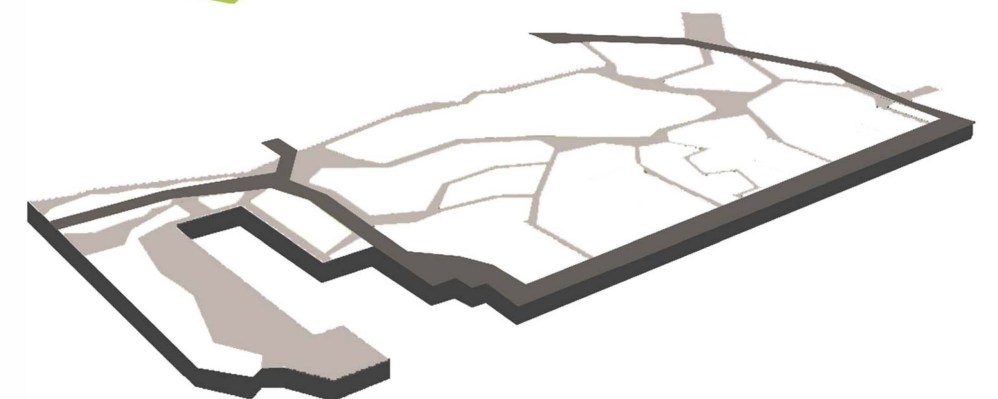
PROPOSED

USE OF SPACE

- RECEPTION
 - FORMAL COMPOSITION
 - PERENNIAL SPECIES

- PLAZAS
 - OPEN SPACES
 - SPATIAL CONNECTORS
 - SAFE SPACES

- CLEARINGS
 - MULTI-PURPOSE DYNAMICS
 - IRRIGATED SPACE



GREEN STRUCTURE

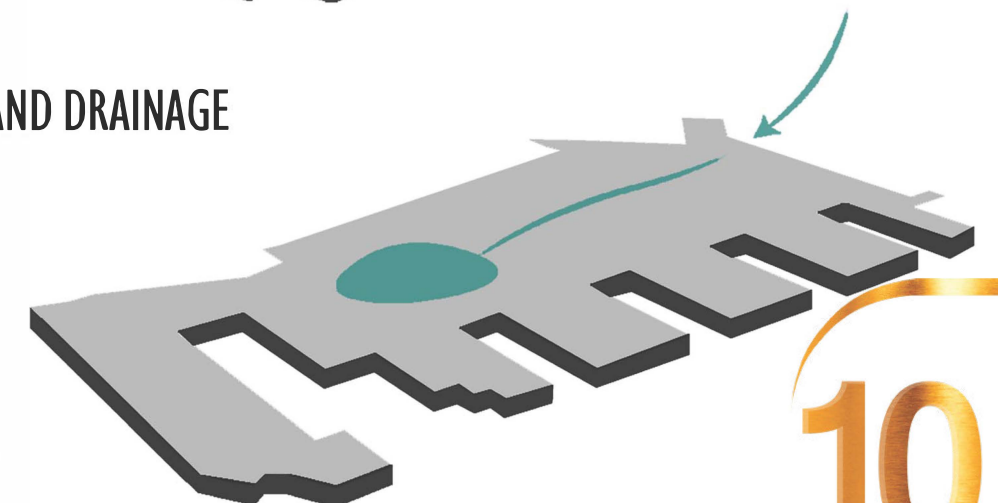
- HARMONY
- MULTI-LAYER DYNAMIC
- ORGANIC DESIGN
- LOW MAINTENANCE
- COLOR
- NATIVE SPECIES

PAVEMENTS

- EFFECTIVE CONNECTIONS
- SIMPLE DESIGN
- LOW MAINTENANCE
- NOISE REDUCTION

MODELATION AND DRAINAGE

- ORGANIC SHAPE
- SUSTAINABILITY (SUDS)
- DYNAMIC
- COVERED AND OPEN AREAS



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MASTER PLAN





SIMULATION 1 - MAJOR CLEARING - Open space for active recreation.



SIMULATION 2 - SOUTH ENTRANCE.



SIMULATION 3 - NORTH SQUARE - Reception plaza at north.



SIMULATION 4 - SOUTH PLAZA - Reception plaza at south.