

Once the risks surrounding the water problem have been analyzed, we will classify the type of solutions in a gradation: region, city, neighborhood, prototype building and two reservoirs. In view of climate change, it is necessary to work flexibly to adapt and find the best way to respond architecturally to the encounter between man and water.

It is necessary to give an architectural response for the protection and recovery of the landscape. Thus, we will have to work at different scales and operate through the topographic power station, the hydrographic power station and the geological section.

The objective of this project, both the exhaustive analysis and the strategies proposed for the recovery of the Onyar, is to serve as an example to create guidelines for action extrapolable to other territorial territories presenting the same risk.

JARDINES DE AGUA LLIBERTAT 3 Y 5

GIRONA

DIPLOMA AND FINAL PROJECT OF ARCHITECTURE

UDG UNIVERSITAT POLITÈCNICA DE GIRONA 2020

SUPERVISORY TEAM: JOSEP FUSES COMALADA Y NADIA FAVA STUDENT: ANDREA TUSELL FALCÓ

Country /City SPAIN/ GIRONA

University / School POLYTECHNIC UNIVERSITY OF GIRONA UdG

Academic year 2020

Title of the project WATER GARDENS 3 AND 5

Authors ANDREA TUSELL I FALCÓ



Title of the project WATER GARDENS 3 AND 5

Authors ANDREA TUSELL I FALCÓ

Title of the course TFM

Academic year

2020 Josep Fuses, Nadia Fava **Teaching Staff**

Department / Section / Program of belonging

DEPARTMENT OF ARCHITECTURE AND CONSTRUCTION

University / School

POLYTECHNIC UNIVERSITY OF GIRONA UdG





Written statement, short description of the project in English, no more than 250 words

My work is based on the hydrogeological restoration of the city of Girona in Catalonia. From the origin to the current situation, understanding its evolution, the project is developed with a multidimensional analysis -temporal and territorial-specifying the areas of action within the territory that from different scales is reduced to the scale of the architectural piece. The study area aims, by means of three technical strategies; to recover and deanthropise three problems caused by water erosion and desertification... agents: a territory that is drying up, a river that is overflowing and water pollution. Once the interventions to solve these problems. have been implemented, the environment and the ecosystem will regulate itself in a natural way. The three strategies are: 1.TERRITORIAL Strategy: Water retention and infiltration/

Reforestation / Large extensions of water lamination, in the fields of Santa Eugenia, outside the urban area and before the entrance to the city. / Detection of underground car parks in urban area/functioning as interconnected reservoirs. / Deconstruction of existing dams / replacement by another sensor system. 2.URBAN Strategy: Action in the riverbed for the recovery of the Onyar and renaturation: / Permeability / Recontouring / sustainable drainage system / Vegetation 3:SYNERGY buildings-river: Self-sufficient model building / Water filter. The aim of the project, both the comprehensive risk analysis and the proposed strategies for the recovery of the Onyar River, is to be an example that can be used to create guidelines for action that... can be extrapolated to other areas with the same risk.

For further information

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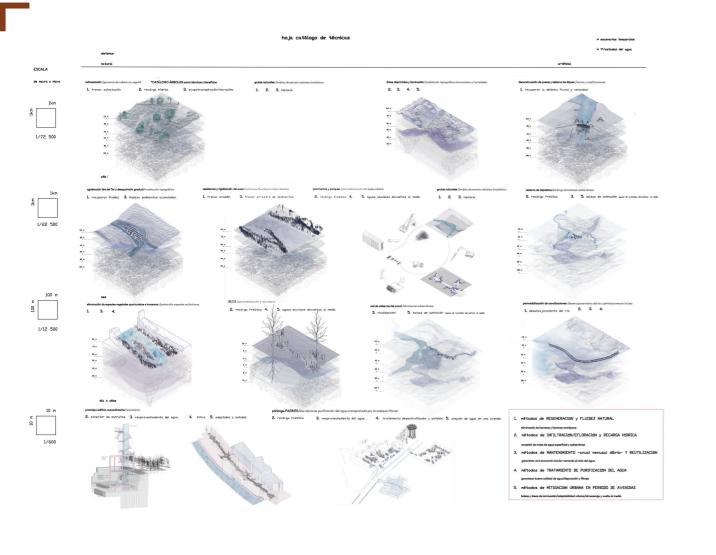
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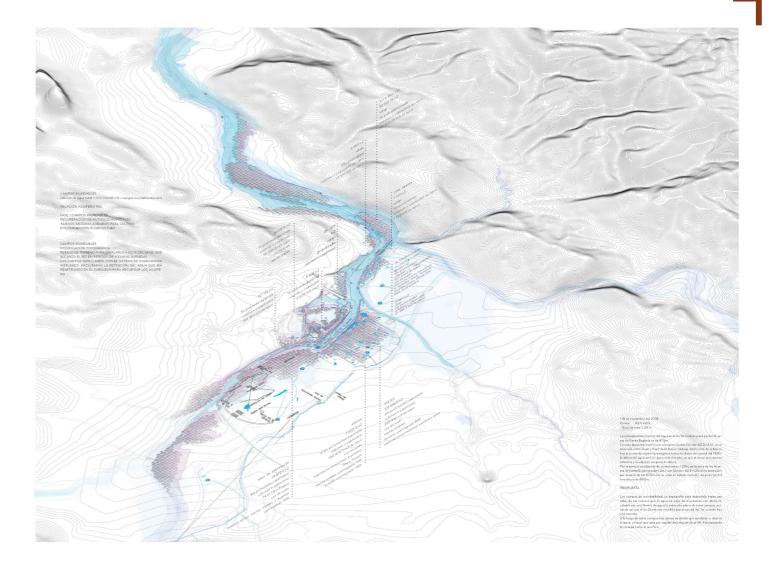
12th International Biennal Landscape Barcelona

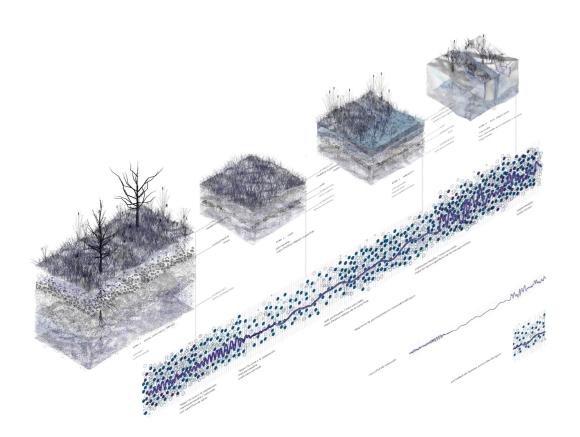
Barcelona

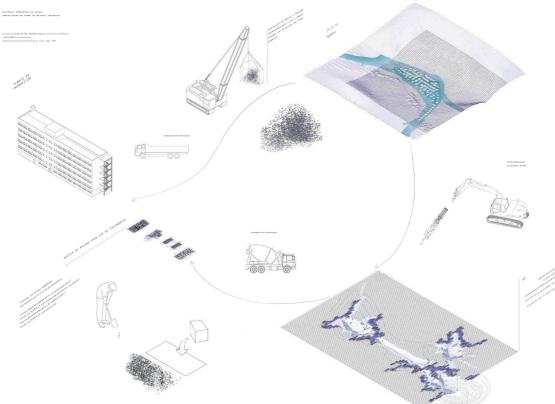
October 2023

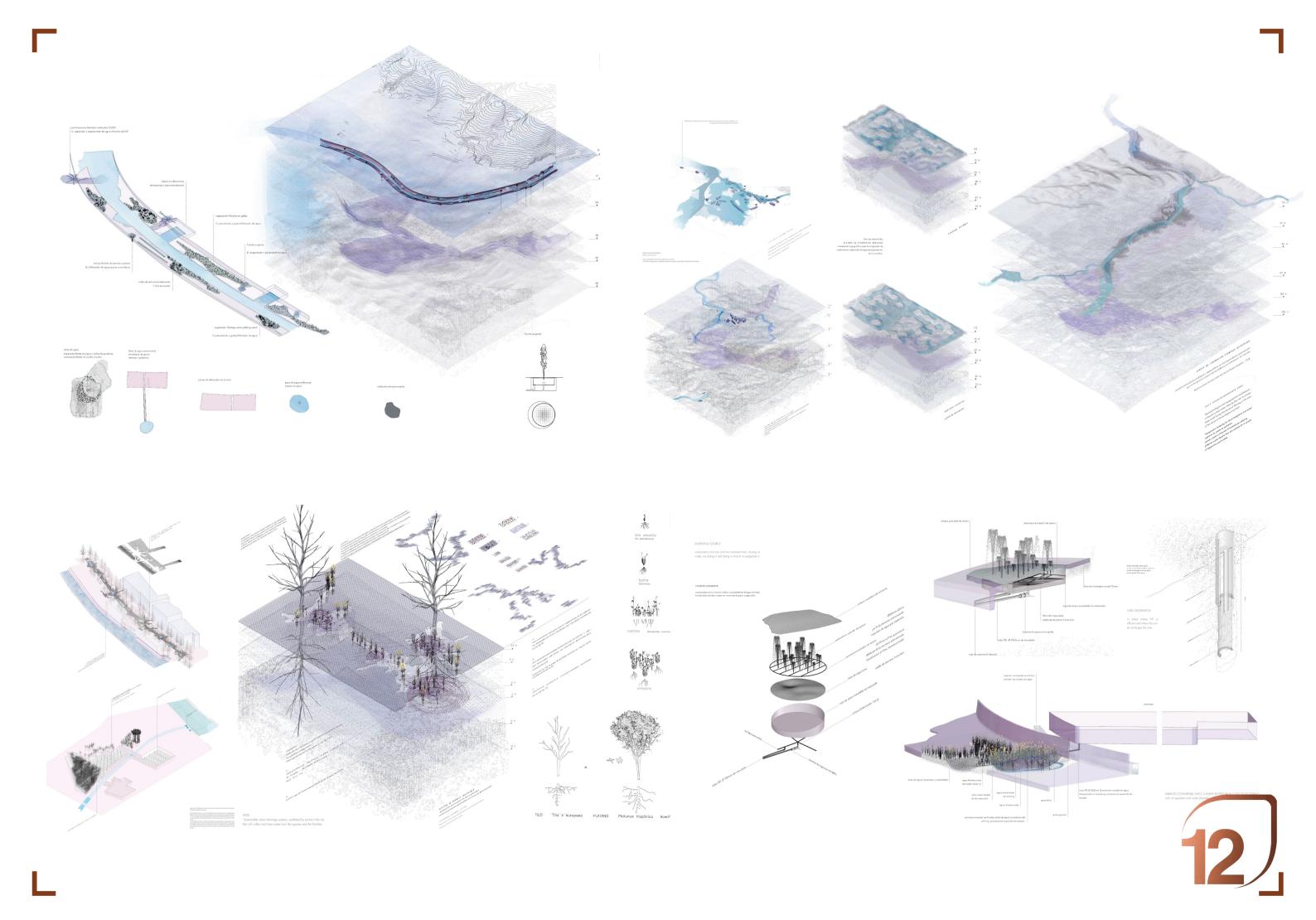
SCHOOL PRIZE

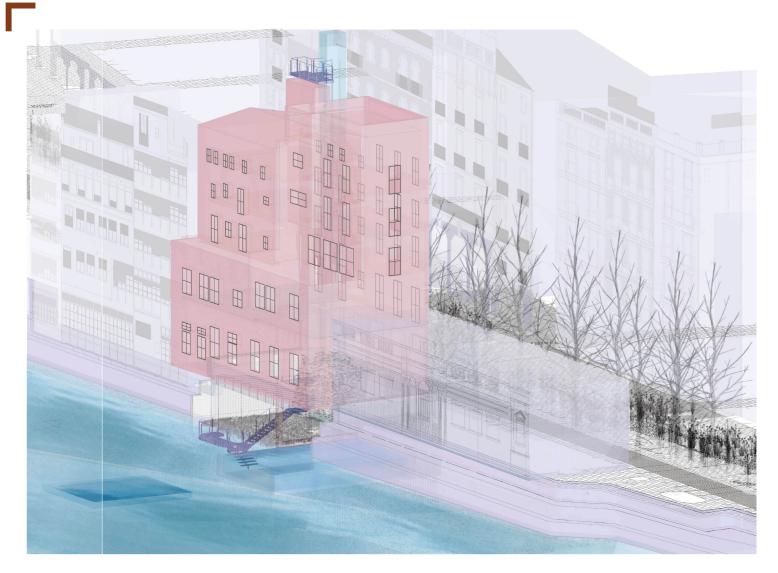


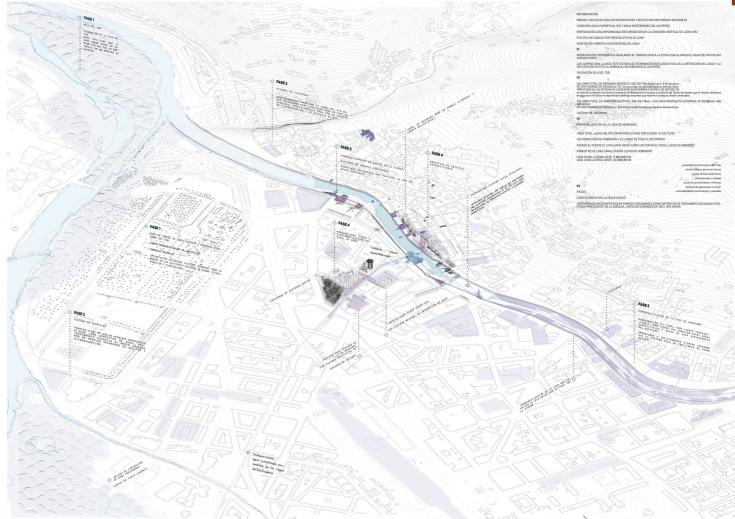


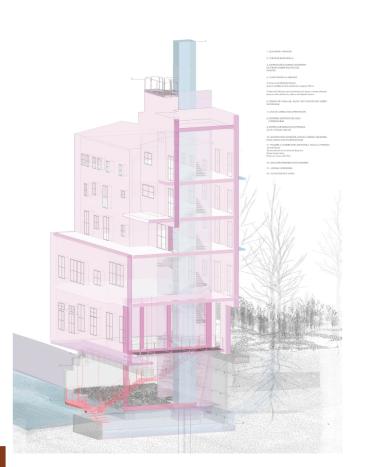


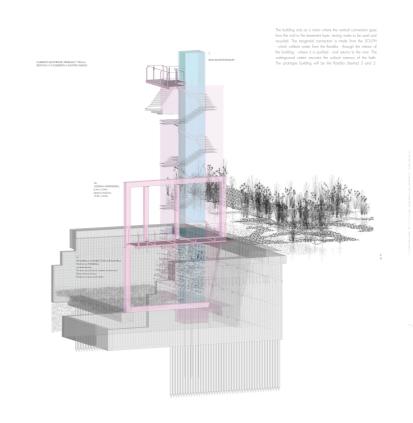


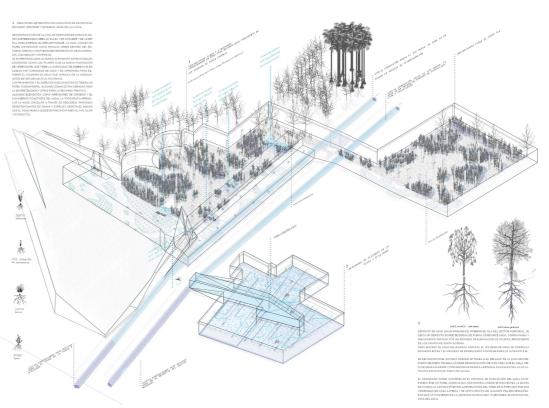














Country /City Spain / Girona

University / School Universitat de Girona / Escola Politècnica Superior

Academic year 2021 -2022

Authors Eric Guerrero Coma, Mar Casado Pérez, Xavier Busquets Méndez

Title of the project

Opening a new path through ancient fabric. Ecological restoration in Girona's historic district.

Authors

Eric Guerrero Coma, Mar Casado Pérez, Xavier Busquets Méndez

Title of the course

Master's degree in Architecture - Escola Politècnica Superior Universitat de Girona (EPS-UdG)

Academic year

2021 - 2022

Teaching Staff

Maria Julia Capomaggi Sequenzia

Department / Section / Program of belonging

Escola Politècnica Superior - Universitat de Girona (EPS-UdG)

University / School

Universitat de Girona / Escola Politècnica Superior





Written statement, short description of the project in English, no more than 250 words

The proposal focuses on a series of small open spaces and its surrounding buildings, located in the historic district of Girona. Nowadays, those spaces are divided and only linked with the buildings each are facing. Using a unifying strategy, the project aims to add the several spaces and, as a result, obtain a new way to connect parts of the neighborhood.

The process of ecological restoration may provide a new habitat to integrate the local flora and fauna of the nearby Gavarres hill range and help the contact of the inhabitants and visitors of the town with the surrounding nature. To face the severity of drought and torrential rainfall common of the climate of the region the project incorporates a system to store the rainwater and recycle water used in the buildings.

Due to difference in terrain levels between the upper and the lower section, the design of the park features a series of dry-stone walls, creating terraces that allow to discriminate spaces between those with a higher level of anthropization, and thus available to be used as vegetable gardens, and those more secluded and intended as not intervened dry Mediterranean forests. All the terraces relate to a meandering path and a more rectilinear way closer to the buildings.

The purpose of the project is to achieve a balance between the dense urban fabric found in cities enclosed with walls and the natural spaces in the vicinity, repurposing carefully selected plots and allowing nature into the core of the city.

For further information

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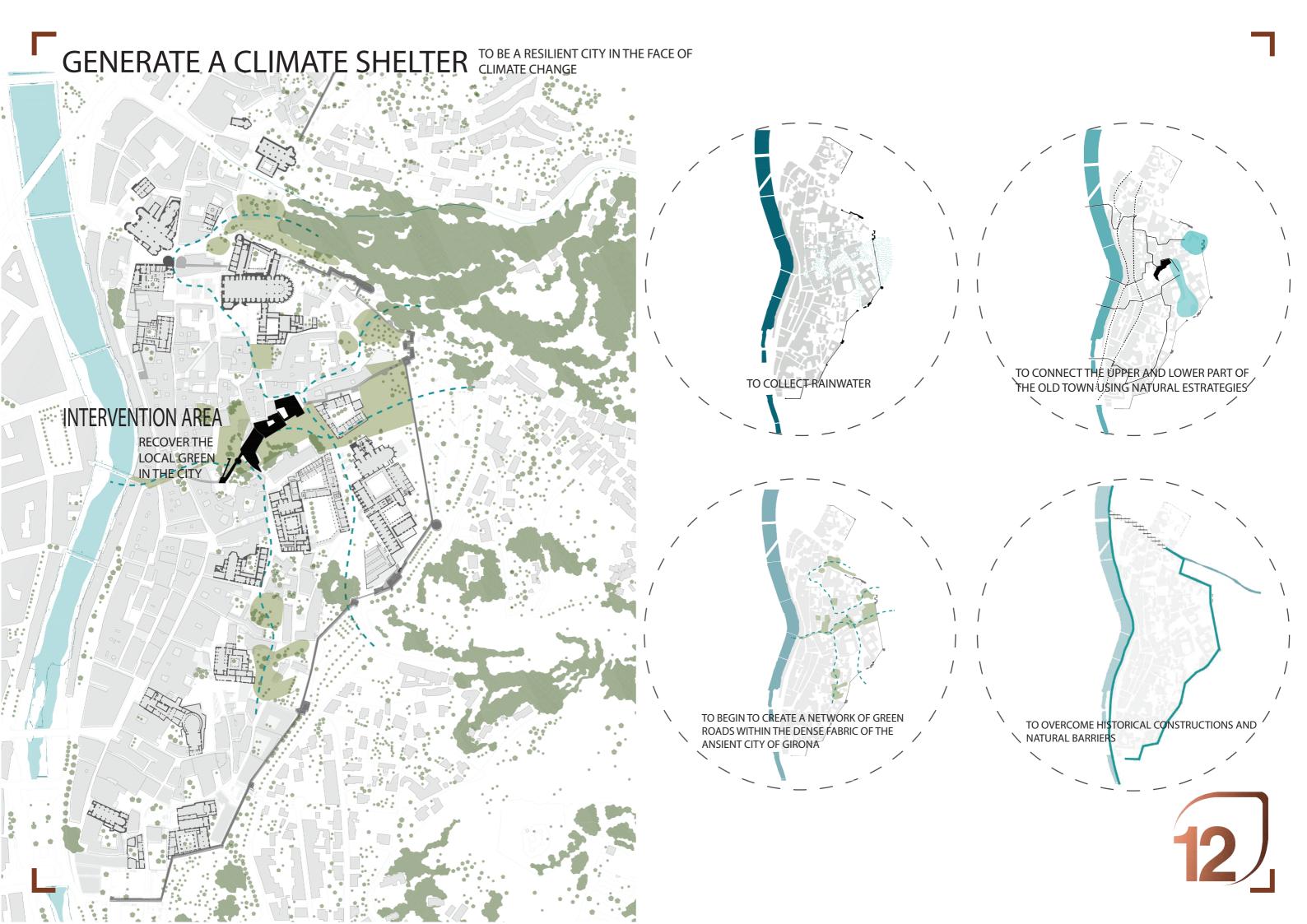
COAC - Colegi oficial d'Arquitectes de Catalunya

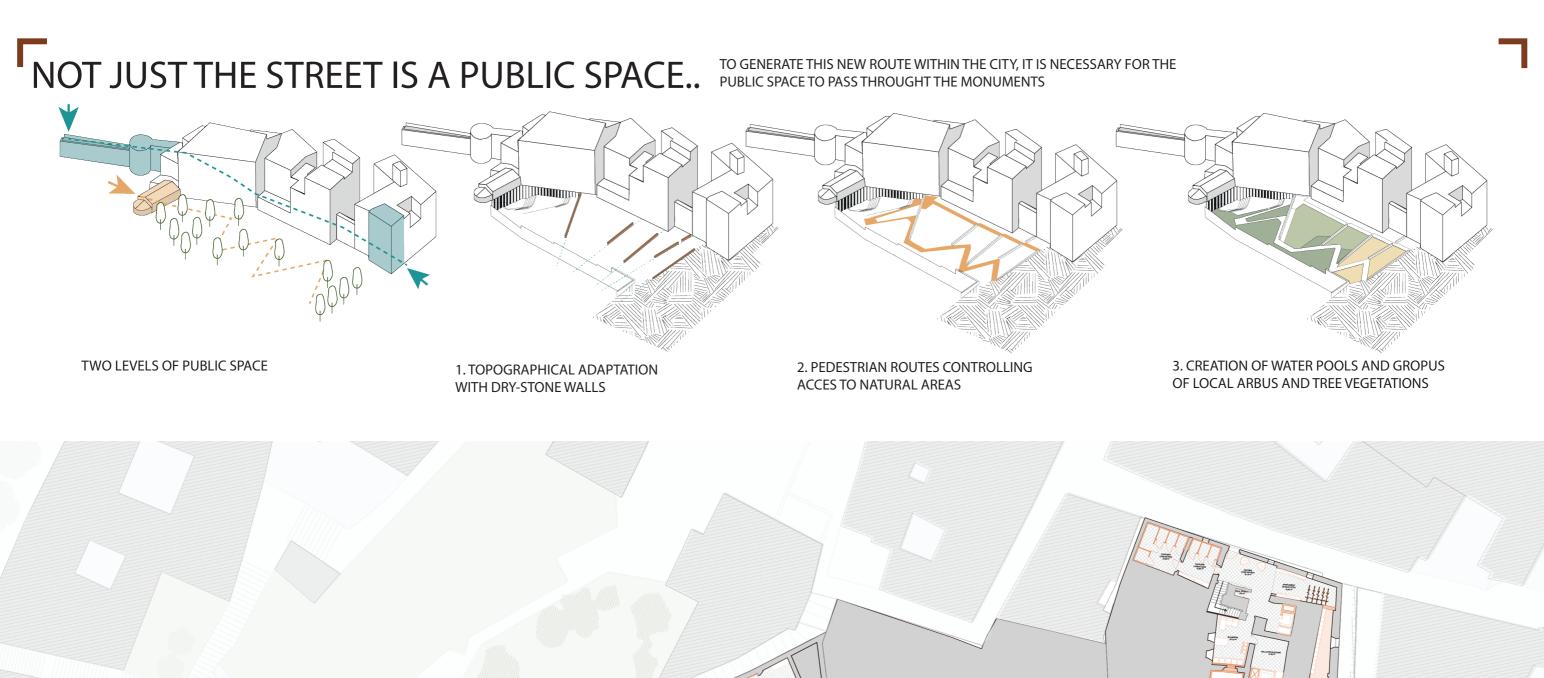
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Alzina. Quercus ilex

Garric. Quercus coccifera

Estepa borrera. Cistus salviifolius

Gatosa. Ulex parviflorus

Bruc boal. Erica arborea









Plaça Josep Ferreter i Mòra. Project

Country /City: Spain, Girona

University / School Universitat de Girona (UdG)

Academic year Master of Architecture

Title of the project (Atravessant Muralles) Crossing walls. Natural-landscape route throught the recovery of spaces for pedestrian use

Authors Artús Pol Moreno



Title of the project
Authors

Artús Pol Moreno

Title of the course
Academic year
Teaching Staff

Department / Section / Program of belonging

(Atravessant Muralles) Crossing walls. Natural-landscape route throught the recovery of spaces for pedestrian use
Artús Pol Moreno

Master in Architecture

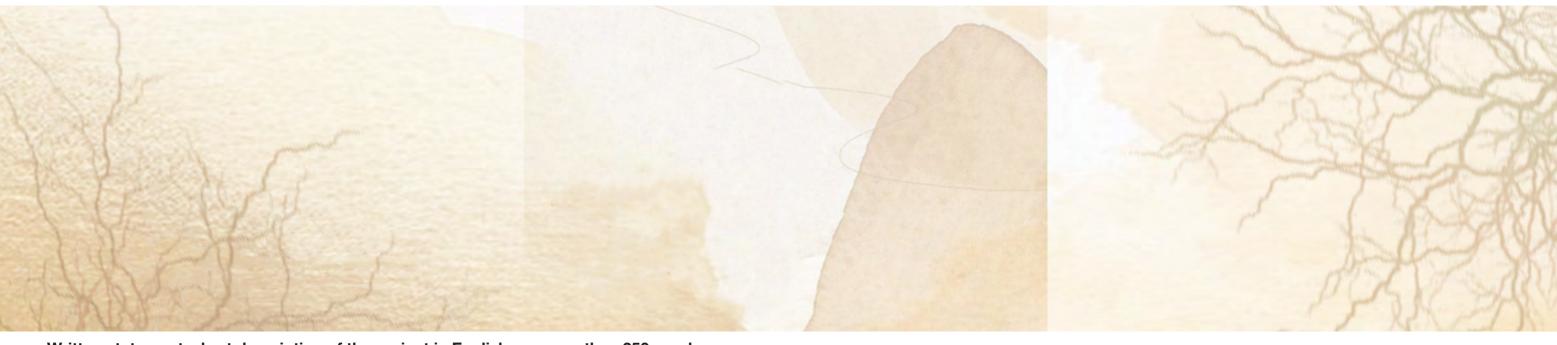
2022-2023

Silvia Musquera Felip

University / School

University de Girona (UdG)





Written statement, short description of the project in English, no more than 250 words

The Atravessant Muralles project proposes to create a garden inside and outside the wall (Atravessant muralles) as an element to reactivate, connect and revalue the space between the Barri Vell, the Barri de Torre Gironella and Les Pedreres through the gateway in the wall of the General Peralta's Tower. The project will have different levels and strategies of action depending on each area in order to end up carrying out a project that unites them. This project covers from the street connecting Plaça de Sant Domènech and Plaça Josep Ferrater; Plaça Josep Ferrater; the reorganisation of Carrer de la Muralla; the space currently known as Prat de les Dones Descalces; and a reorganisation of the Jardi de la Muralla, currently deteriorated and not adapted to today's needs.

The proposal involves a set of spaces connected by a route that have different areas and characteristics/attributes, which creates different environments that encourage the user to carry out different activities.

In this project we highlight three groups that currently use the space and for whom the area would be greatly enhanced by providing it with social spaces and contact with nature where they can meet. We focus both on the residents of the neighbourhoods and on the students who pass through on their way to the university campus and make use of the area due to the university nucleus that we find in the area, and finally, tourism as a stimulating element of the city.

For further information

Máster d'Arquitectura del Paisatge - UPC

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CURRENT STATE ANALYSIS

GIRONA, CATALONIA, SPAIN



Between Barri Vell, Torre Gironella and les Pedreres



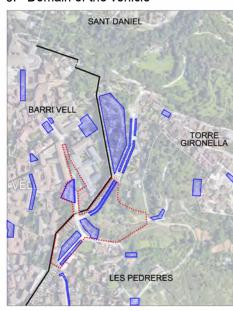
DETECTED PPROBLEMS

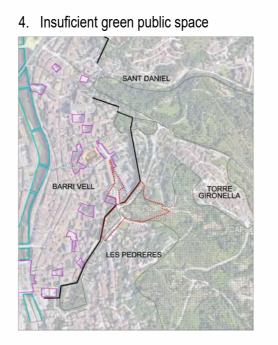
1. Rugged topography





3. Domain of the vehicle



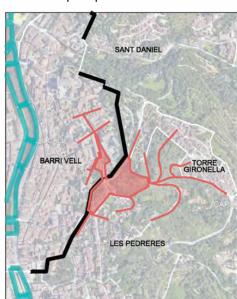




PROJECT

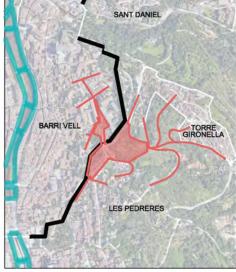
DESIGN STRATEGIES

1.New adapted pedestrian connection



2. Green incursion inside the Barri Vell

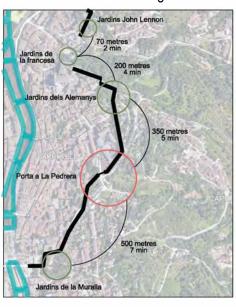




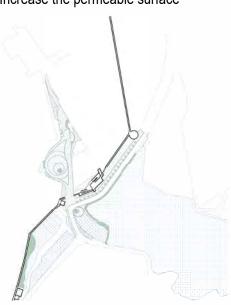
3. Nature-city gateway



4. Connection between the gardens of the wall



WATER IS THE KEY Increase the permeable surface



Retention, control and drainage pond



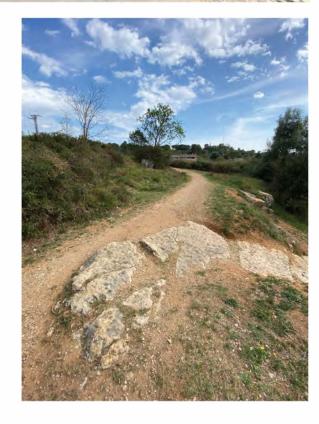


CURRENT STATE PROJECT









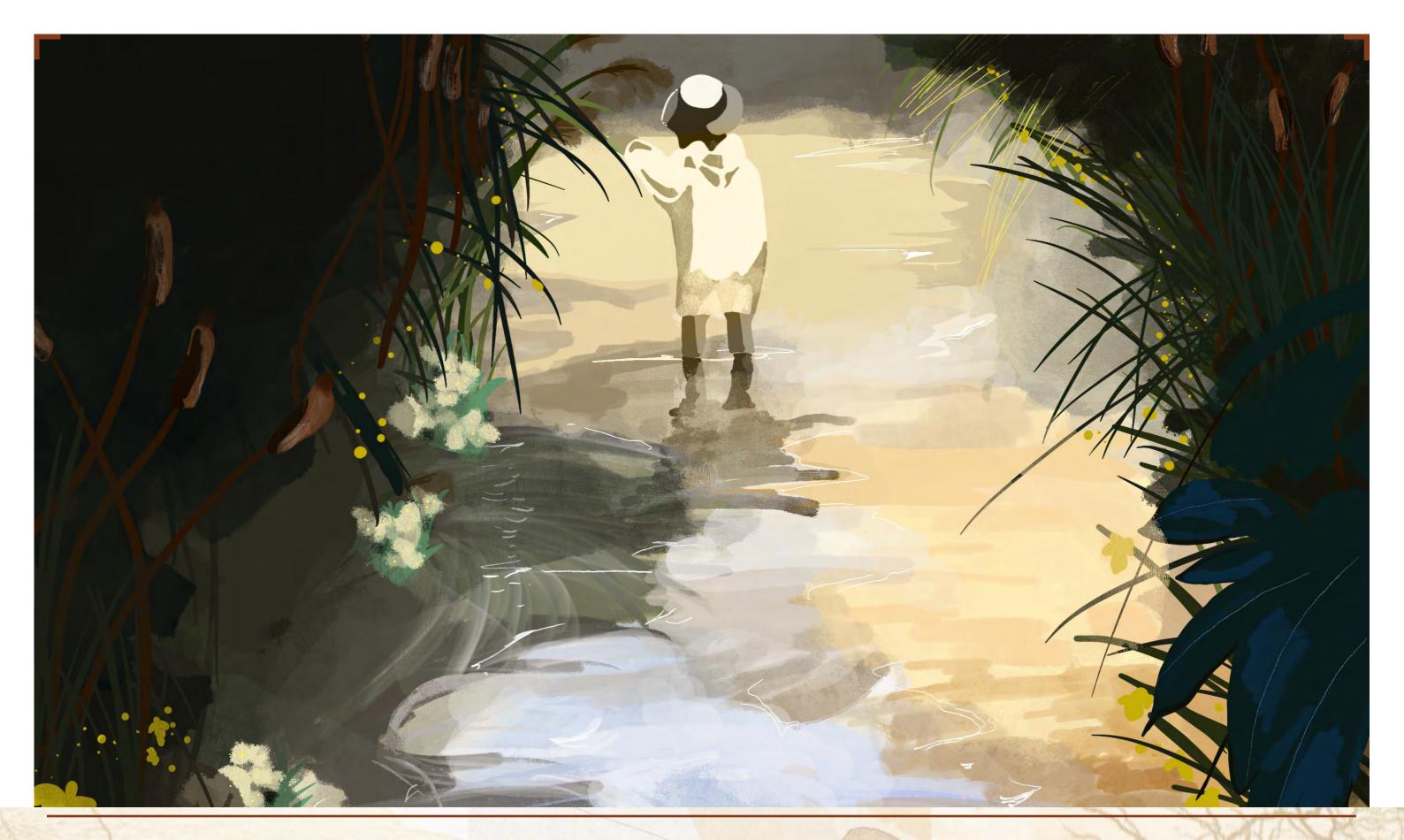












Country /City Espanya. Girona

University / School Universitat de Girona

Academic year 2022/2023

Title of the project O2rígen: renaturalització del riu Onyar al seu pas pel Barri Vell de Girona

Authors Eduard Hermoso Muñoz

Title of the project

O2rígen: renaturalització del riu Onyar al seu pas pel Barri Vell de Girona

Authors

Eduard Hermoso Muñoz

Title of the course

Màster Universitari en Arquitectura

Academic year

2022/2023

Teaching Staff

Nadia Fava

Department / Section / Program of belonging Departament d' Arquitectura i Enginyeria de la Construcció

University / School

Universitat de Girona







Written statement, short description of the project in English, no more than 250 words

The project is based on urban, architectural and landscape improvement. architectural and landscape improvement of the area that includes the current Plaça Catalunya. In this area, a series of strategies have been carried out to define the four main elements that have defined the four main elements of the project of the project. The square is a series of free spaces which created with the union of the two urbanised sides of the Onyar river. Providing the city with a new public space, that ceases to be a residual space and a private car park, private vehicle parking.

These new open spaces will provide visitors a new view of the Barri Vell (Old Quarter), which is currently under threat. The square will be linked with two bridges at street level and two galleries at street level and two galleries at river level, which will be accessible from the square. from the square. The pre-existing traffic flows in Plaça Catalunya will be modified to reduce the visual and acoustic impact of vehicles and acoustic impact of motor vehicles. Onyar needs to showcase itself and connect with the different areas of the with the different spaces of the project in order to establish effective connections between the different points of the environment. The renaturalisation of the river through plant species adapted to the adapted to the context of the current drought, revitalising the area with new flora and fauna in the territory.

For further information

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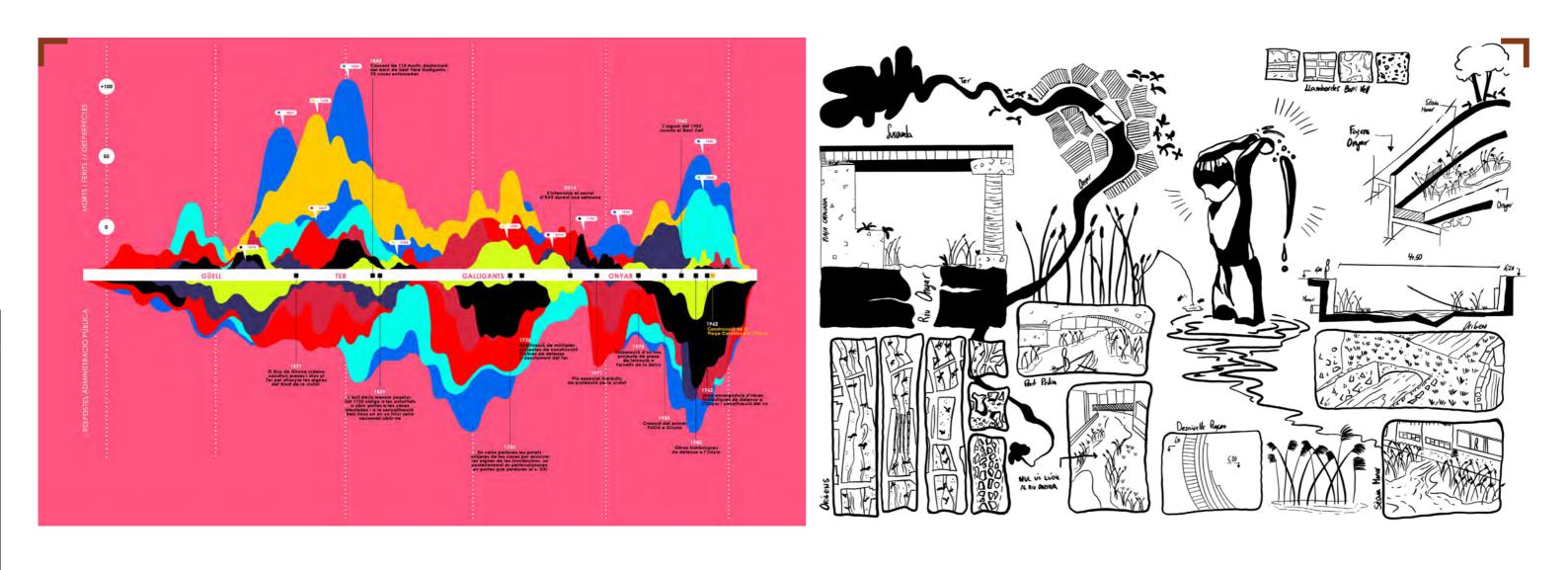
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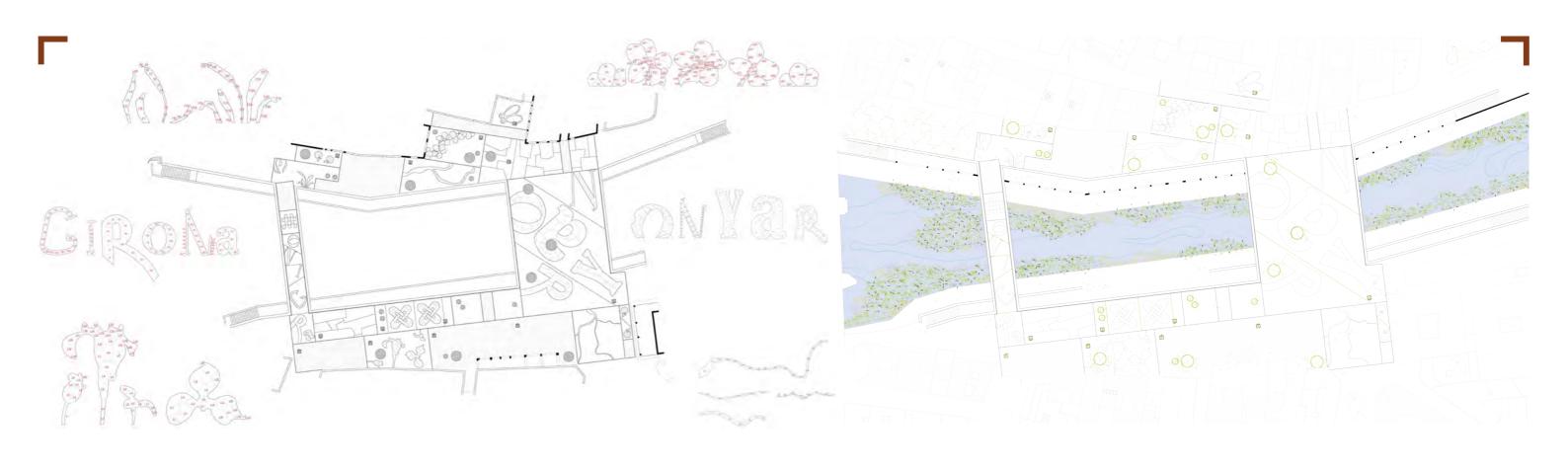
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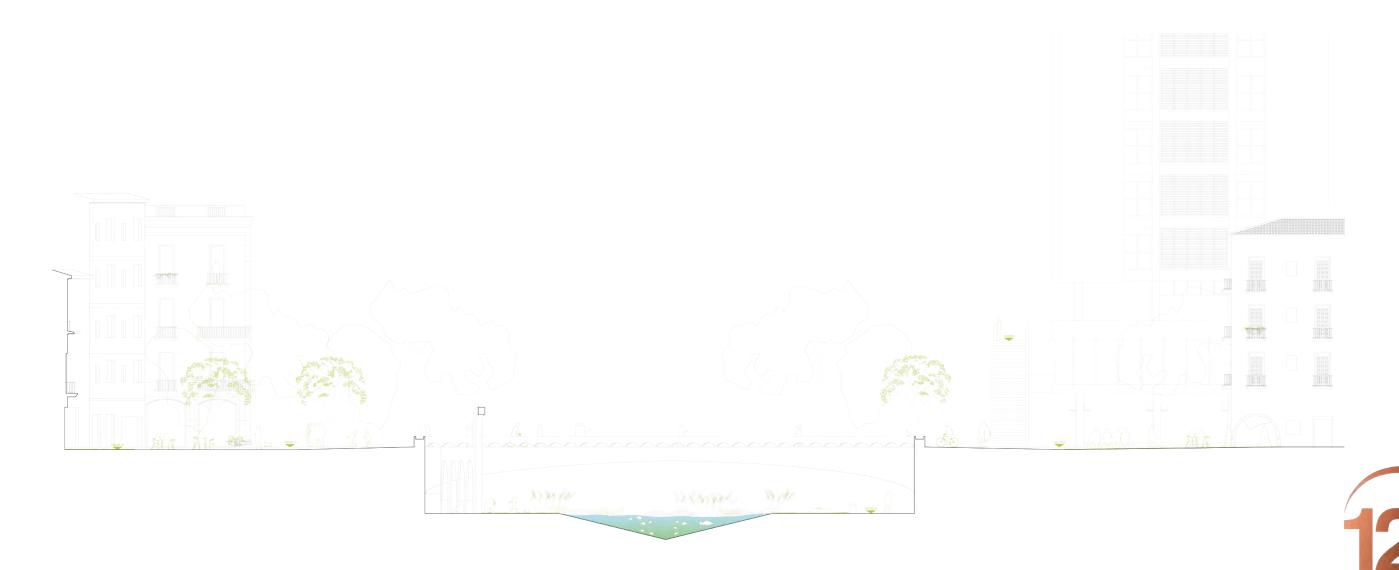
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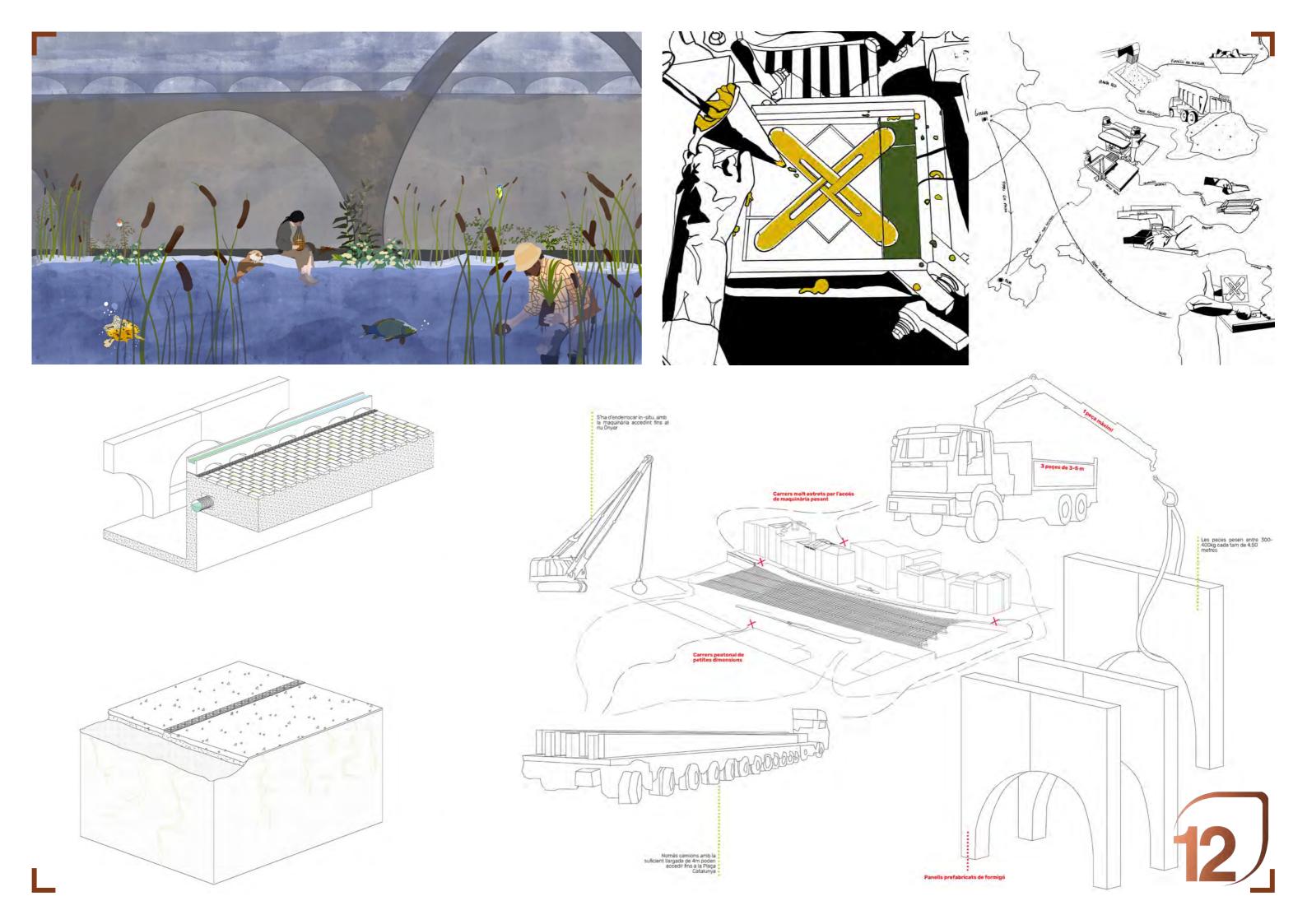
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Country /City _Spain, Girona...

University / School Escola Politècnica Superior, Universitat de Girona

Academic year 2019

Title of the project Rehabilitation and self-management of a self-sufficient industrial colony.

Authors Marc.Colomer.Tuneu

Title of the project Rehabilitation and self-management of a self-sufficient industrial colony **Authors** Marc Colomer Tuneu Title of the course Master of Architecture MARQ EPS UdG Academic year **Teaching Staff** Maria Pia Fontana. Department / Section / Program of belonging Department of Architecture and Construction Engineering DAEC EPS Udg University / School Escola Politècnica Superior, Universitat de Girona





The use of water as an energy engine populated this territory with factories and textile colonies, defining its urban planning as a multipolar structure.

The textile colony is one of the most characteristic elements of our industrial heritage and gives its own identity to the industrialization process that Catalonia underwent.; this is the case of the Ter river, which despite the degradation of the river due to the livestock sector, today it is recovering its biodiversity and people have gradually returned to revalue it.

The project focuses on the colonies located around the middle Ter basin, specifically in the Plana de Vic area, in Osona region. This is the case of colonies such as Can Tarrés, La Coromina and Ymbern, located in the town of Torelló, the first of which is chosen to develop the project. Through three urban strategies, the project proposes to incorporate the colony into an existing route, which connects the city center with the rest of the colonies in the area. These operations not only improve the relations of the factory itself, but also connect the entire environment with the river as the protagonist.

Another of the issues that the work attempts to address is the greatest challenge that humanity has faced in recent centuries: the destruction of our planet. Through data analysis, it is concluded that the food model and therefore the way of living must be rethought, so the project proposes a new form of access to affordable housing with a cooperative model, based on a circular energy system and waste utilization.

For further information

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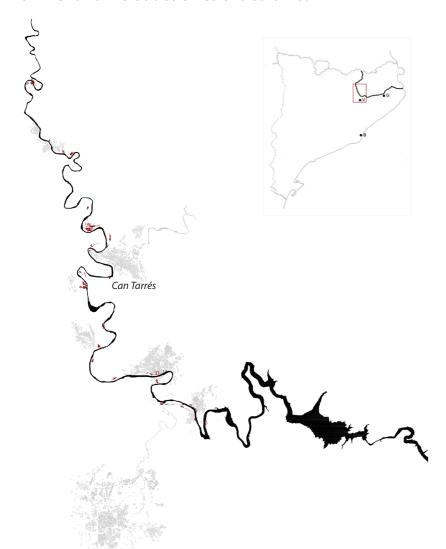
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TERRITORY AND HERITAGE

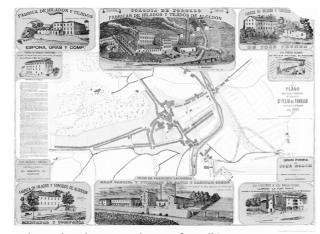
Ter river and introduction to the colonies





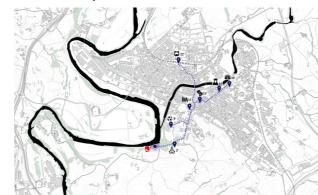
During the 19th century, the middle Ter basin experienced one of the most important industrial processes in Catalonia and the territory was populated with textile colonies. Despite the degradation of the river due to the livestock sector, today it is recovering its biodiversity and people have gradually returned to revalue it.

The colonies are small villages, equipped with the basic services to maintain autonomously a population fully dedicated to the factory. What makes these colonies remarkable is not its architectural quality, but its abundance, density and formal homogeneity. After a study of several colonies in the area, Can Tarrés is the one chosen to develop the project.

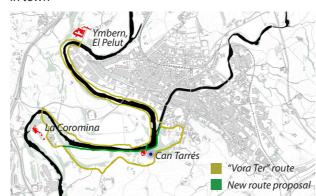


Industrial and comercial map of Torelló

Territorial operation



Time it takes to walk from the colony to the basic services in town



"Vora Ter" route and new route proposal



Current status location



Project location



Indoor view



Wheel of the dam



Backyar



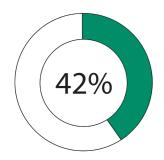
POLICY AND SOCIETY

Housing policy model

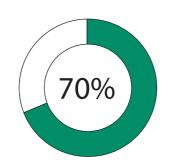
Access to housing responds more to banking interests than to social realities and, faced with this scenario, the first cooperatives emerged in Catalonia to propose an alternative access to housing, which prioritizes its use value over its exchange value. The cooperative model involves a non-profit organization and allows the user to actively participate in the management and maintenance of their home.

On the other hand, reconsidering the food model through a circular energy system, will lead to a community that does not damage the environment but rather restores it. This system is based on the waste generated in the homes and guarantees the necessary food and energy for all the inhabitants of the colony. In addition, an aquaponics system generates a symbiosis between fish and plants grown only with water, which can reduce by 98% the land area used for cultivation and by 90% the water consumption.

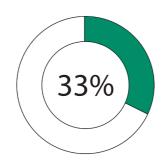
Transfer of use



Of earth land surface is used for farmland

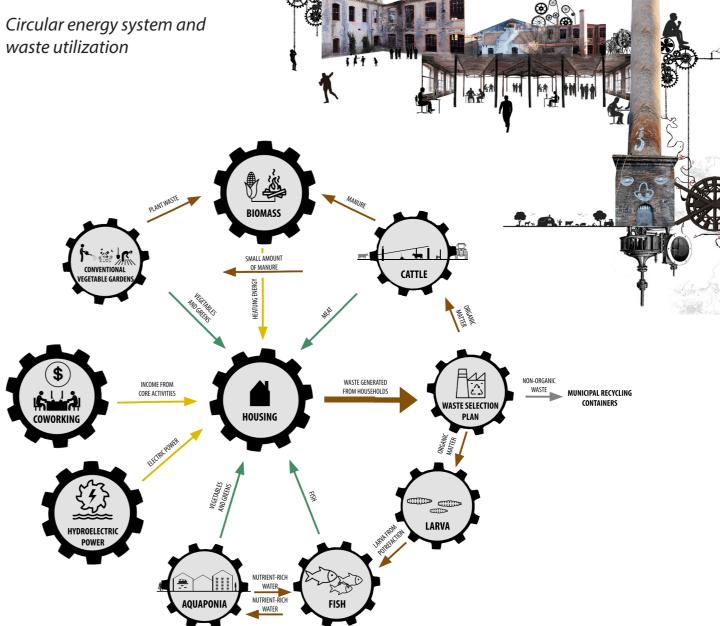


Of global water consumption is used for farming, causing rivers ans lakes to dry up

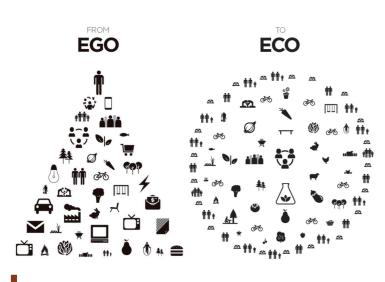


Of the world's food goes to waste every year (1.3 billion tones)

waste utilization



ReGen Villages - EFFEKT



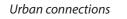






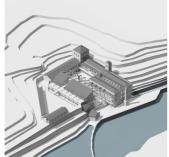
DESIGN AND CONSTRUCTION







Demolition of slabs and roofs



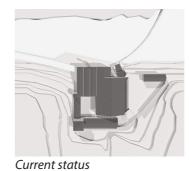
Construction of galleries, circulation walkways and vertical connections

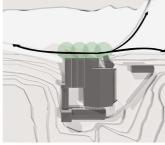


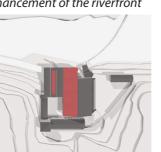
Collective housing model (1+1+1)



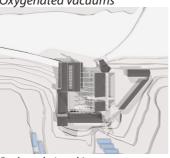
Individual housing model (4)



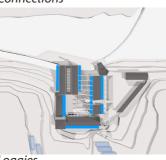




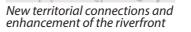
Oxygenated vacuums

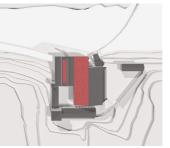


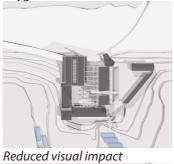




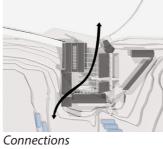












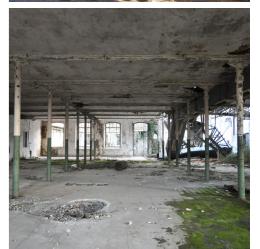


















Section