

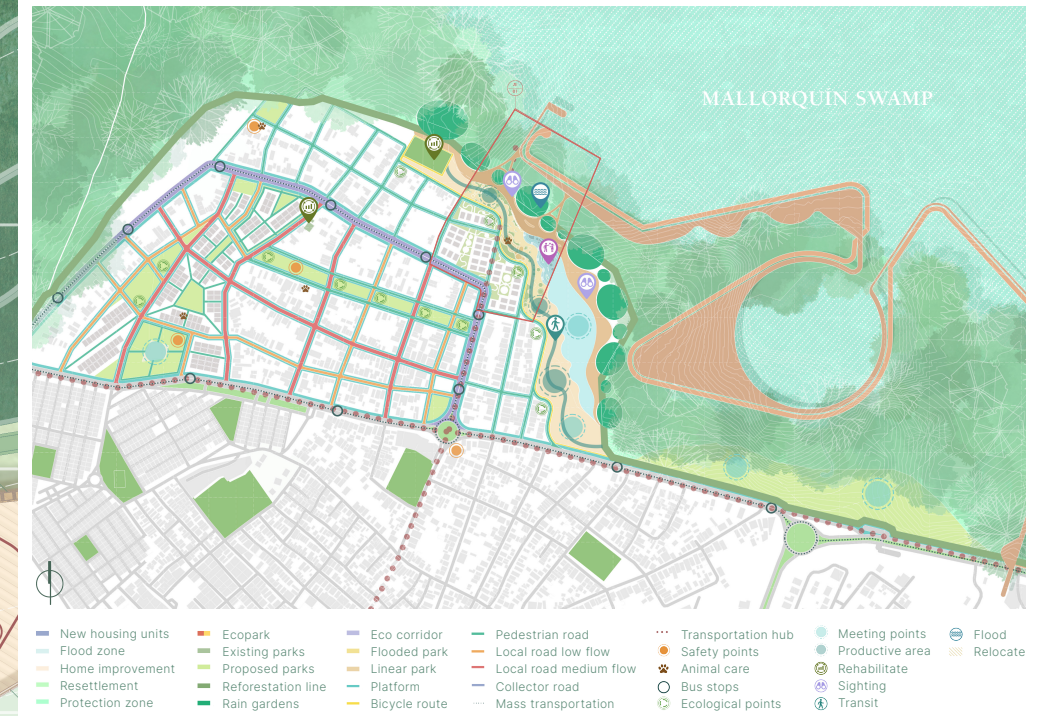
Please provide a 250-word text explaining the selection criteria used to choose the five projects representing the school in the Ribas Piera Prize. Detail the aspects evaluated, such as conceptual quality, innovation, thematic relevance, technical resolution, or any other criteria considered in the selection process with a single image, characteristic of the academic process, to accompany the text.

Our projects exemplify regenerative and ecological-responsive design in the Global South, assessed through active learning methodologies, sustainability competencies, and community engagement. Accordingly, In the Mallorquín Swamp, “El Bioma” reconnects community and nature, transforming a degraded territory into a resilient landscape where water, life, and urban memory intertwine. In this context, “At the Edge of the Swamp” reimagines the swamp as a Caribbean symbol, restoring nature and reconnecting community through memory and care. “Water Memories” aside, is a green lung that restores an untouched area with preexisting wetlands, where Calamar’s resilient community reconnects and protects its town from climate change. Finally, “Rehabilitating the Riverbanks” intervenes two bodies of water neglected by urban planning and the local communities, reimagined as socio-ecological axis that fosters nature-rich urban living.



MASTERPLAN

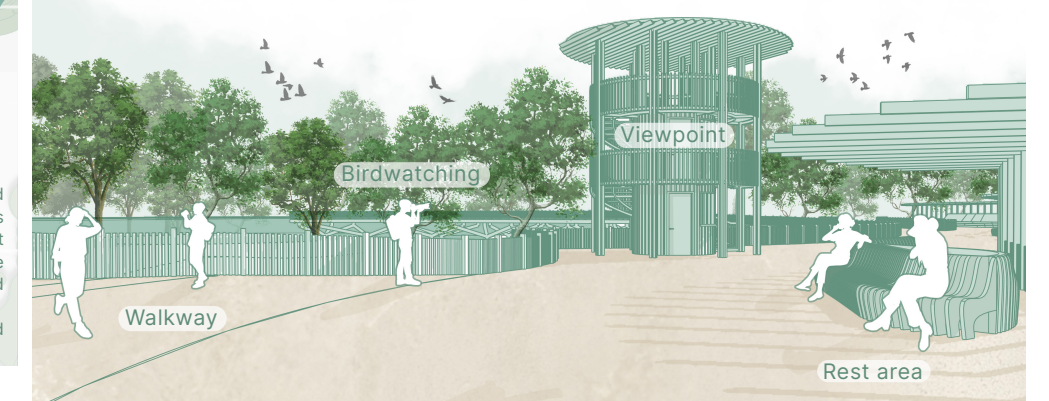
The master plan for the Eduardo Santos neighborhood aims to address the various social dynamics between the population and their environment, which have dehumanized the community over the years. The main objective of the master plan is to transform the neighborhood and its relationship with the swamp, creating a new urban structure that respects the environment and is prepared for future changes in the area.



MANGROVE REFUGE



SWAMP VIEWPOINT



Country/City

Colombia, Barranquilla

University / School

Universidad del Norte / Escuela de Arquitectura, Urbanismo y Diseño EAUD

Academic year

2023

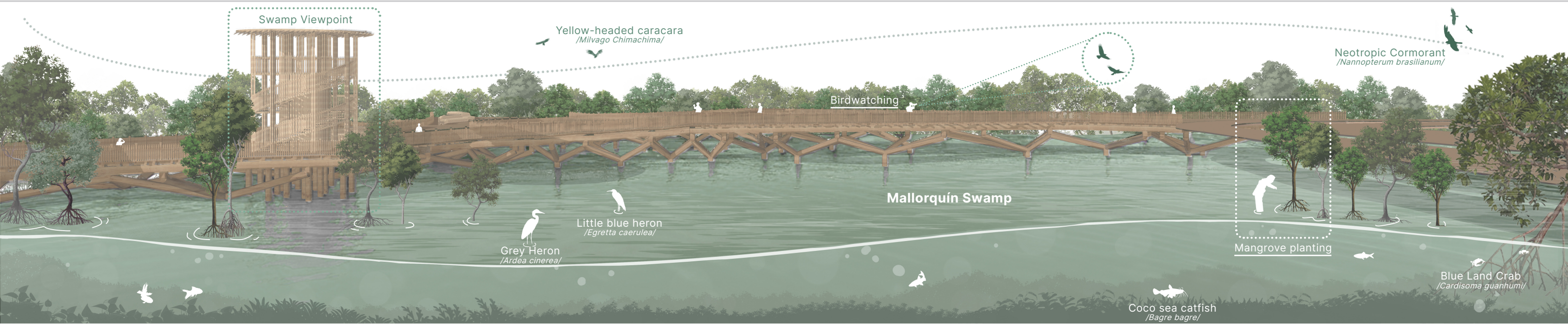
Title of the project

At the edge of the swamp. Recovery and integration of the La Playa community

Authors

Diana Tinoco, Luis Méndez y Jeison Brochero

Title of the project	At the edge of the swamp - Recovery and integration of the La Playa community
Authors	Diana Tinoco, Luis Mendéz y Jeison Brochero
Title of the course	Taller Ciudad I: Espacio publico y Diseño urbano
Academic year	2023
Teaching Staff	Arch. Carlos Bueno Rivero
Department / Section / Program of belonging	Departamento de Arquitectura y Urbanismo
University / School	Universidad del Norte / Escuela de Arquitectura, Urbanismo y Diseño EAUD



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

The Mallorquín Swamp is a RAMSAR coastal wetland located in Barranquilla, Colombia. This valuable ecosystem faces continuous degradation of its mangrove habitat. It is estimated that the marsh has lost 371 Ha since 1985. Consequently, the loss of vegetation has disrupted ecological balance, biodiversity, and worsened flooding, affecting the community and local urban dynamics. The project combines three strategies: ecological restoration, green infrastructure, and public space. Ecological restoration focuses on the reforestation of native red, black, white, and buttonwood mangroves: *Rhizophora mangle*, *Avicennia germinans*, *Laguncularia racemosa*, and *Conocarpus erectus*, respectively. These species stabilize soil, reduce flood impacts, and provide habitat for wildlife. Green infrastructure includes the integration of rain and flood gardens to manage stormwater runoff, mitigate the effects of climate change, and improve urban environmental quality. Finally, an elevated wooden boardwalk (a key element of the project) allows public access, connecting the wetland with the La Playa community providing spaces for contemplation, passive recreation, and social interaction. Beyond restoration, the project aims to reconnect the community with its territory by involving residents in a mangrove planting campaign, encouraging a reflective and educational relationship with the wetland while fostering a culture of environmental care and participation.

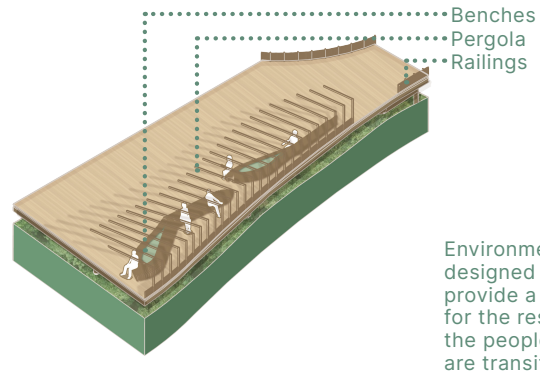
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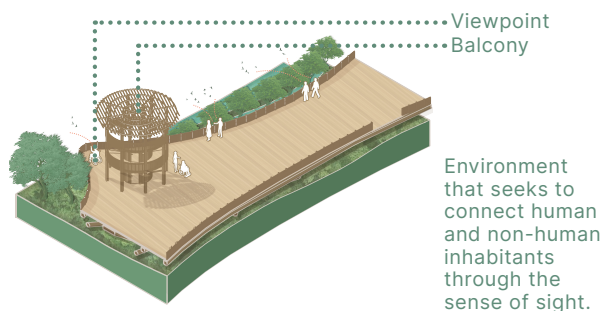
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LANDSCAPE UNIT STRATEGIES

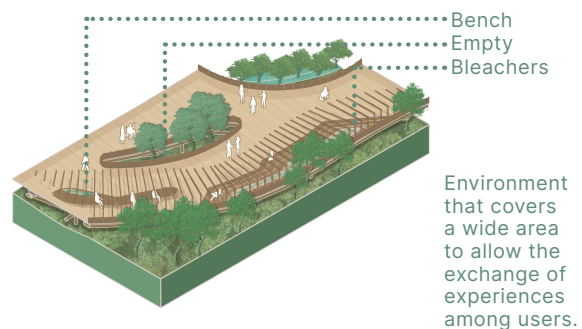
RESTFUL ENVIRONMENT



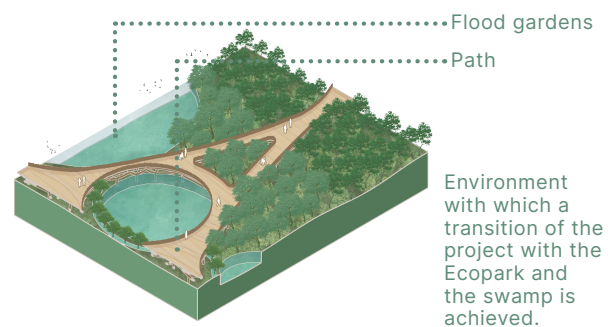
CONTEMPLATIVE ENVIRONMENT



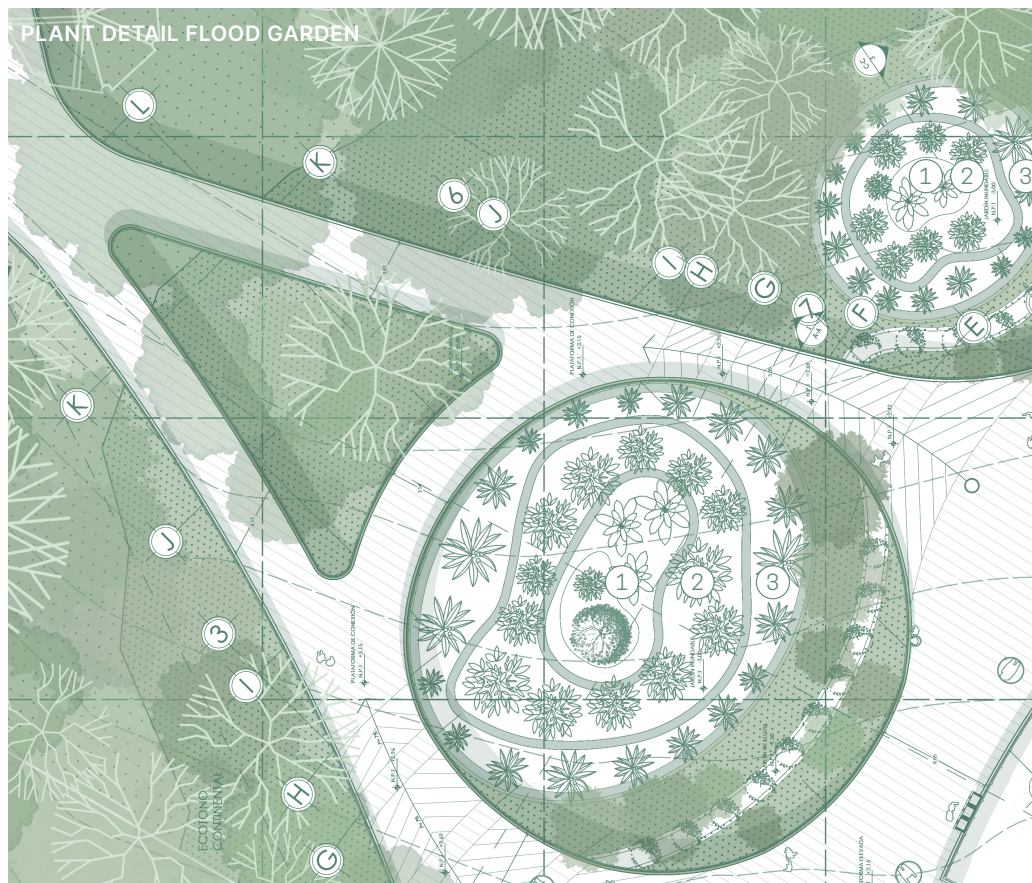
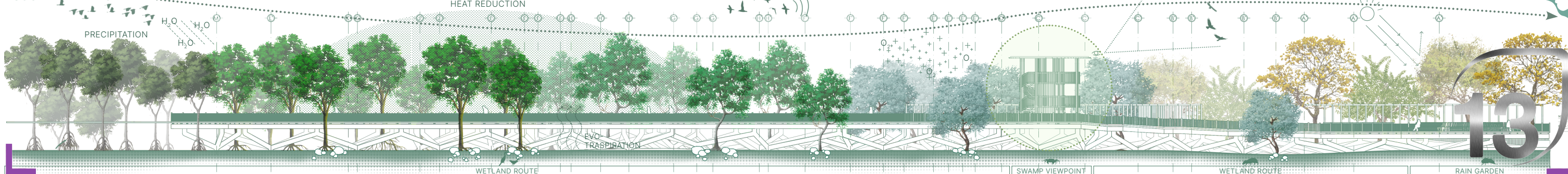
MEETING ENVIRONMENT



CONNECTION ENVIRONMENT



SOUTH ELEVATION



① Heliconias are pollinated by birds rather than insects. The vibrant hues of the bracts attract birds, which feed on the nectar produced by the flower.

This genus protects water resources.

They are crucial for reforestation processes.

② The cocoplum is often planted to stabilize beach edges and prevent erosion.

It is habitat for numerous species of insects, reptiles, birds and mammals, to which it provides shelter, food and protection.

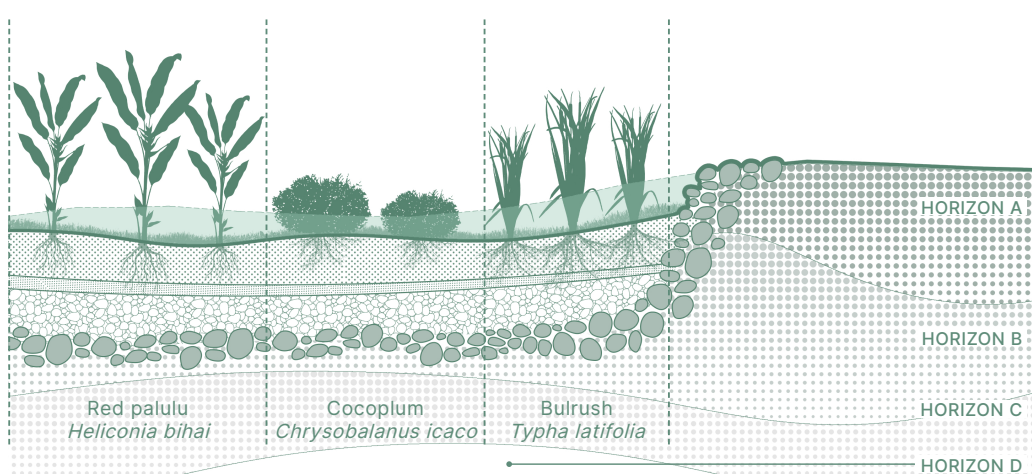
As an isolated shrub it provides cover for nesting birds.

③ Bulrush with their dense stem system provide excellent shelter for herons, tinguas and other wetland birds.

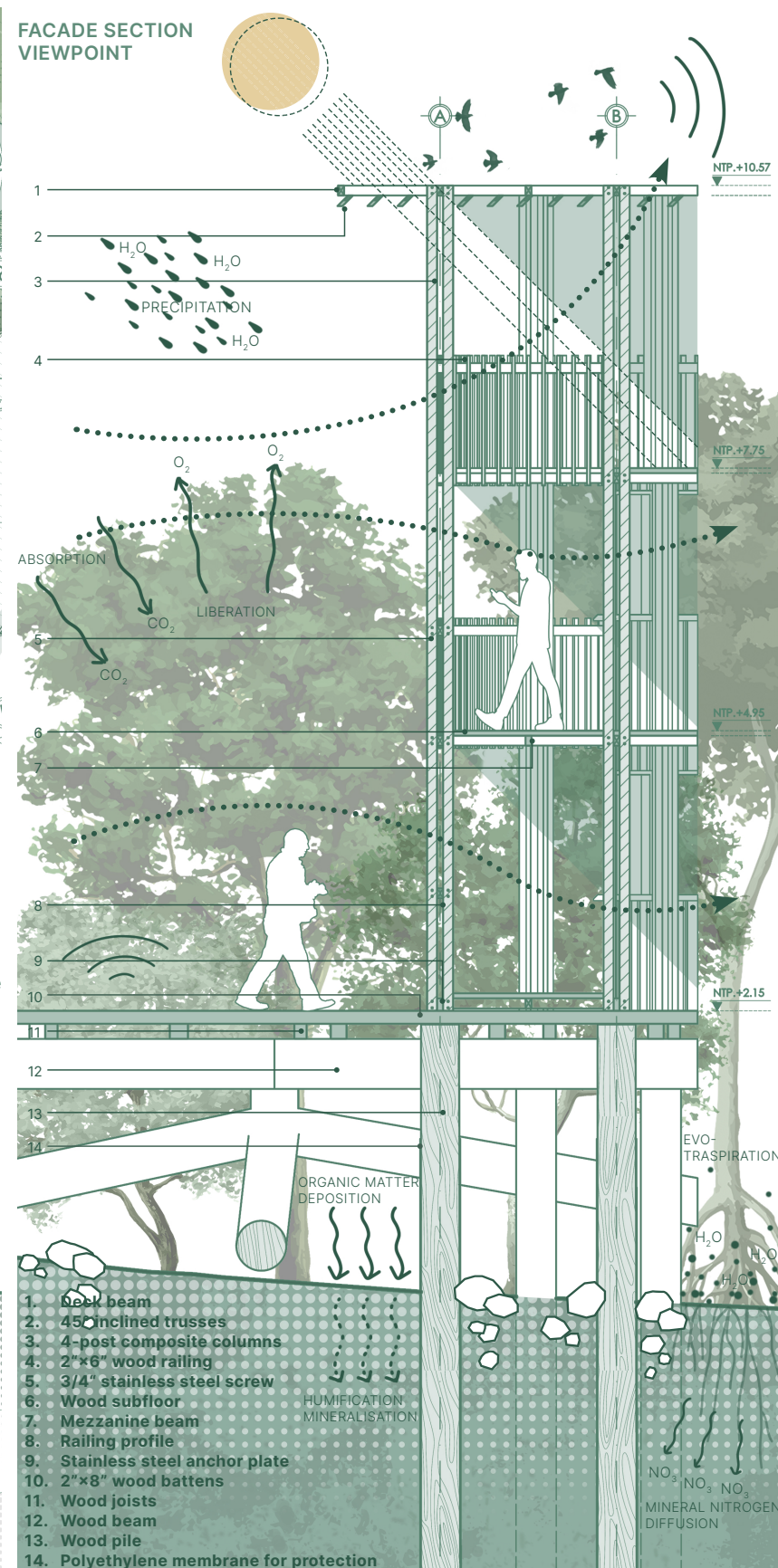
It is frequently used in environmental restoration and wastewater treatment.

It was sought that the flora implemented to populate the flood gardens would serve to control the flooding in a natural way and also provide an ecological benefit. To encourage the arrival of local fauna, such as birds.

SECTION DETAIL FLOOD GARDEN

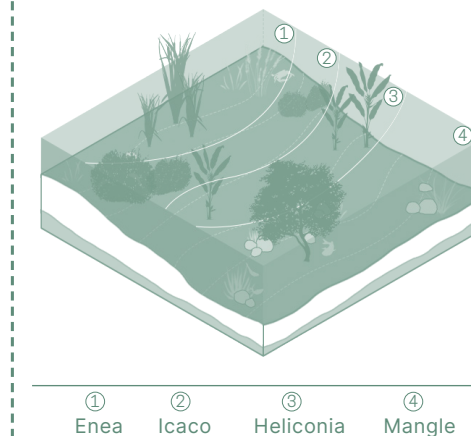


FACADE SECTION VIEWPOINT

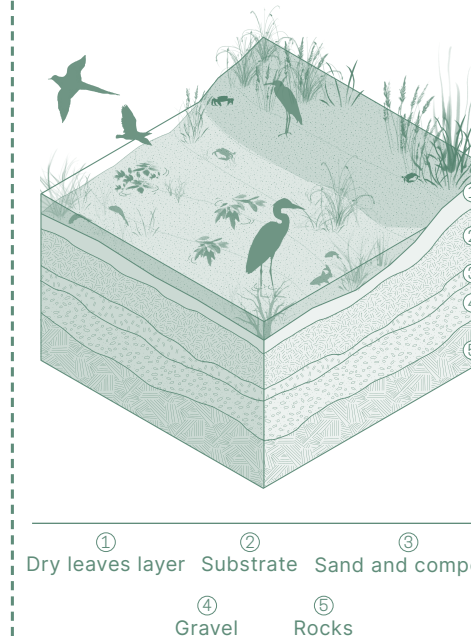


FLOOD GARDENS

STRATEGY



FLOOD GARDEN LAYERS



They are an infiltration structure that serves to evacuate rainwater and also allows feeding the vegetation above it.

In other words, it is a rainwater drainage system that accumulates, infiltrates and absorbs. The main benefit of a rain garden is that it allows the recovery of an ecosystemic service, generating an environment that helps to store, regulate and generate water so that it can infiltrate. In other words, "it generates a mass of varied vegetation that feeds itself and that will be useful for many insects and birds, thus recovering the environmental conditions of the place where it lives".

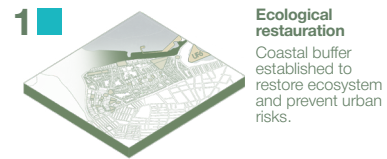
WATER MANAGEMENT

El Bioma

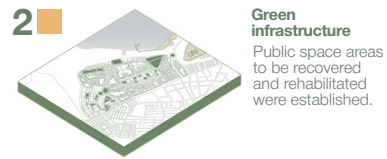
Restoring the swamp through ecological design



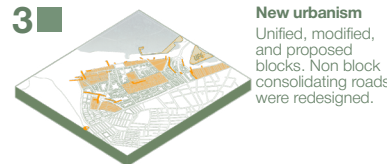
Country Colombia City Barranquilla Town La Playa



1 Ecological restoration
Coastal buffer established to restore ecosystem and prevent urban risks.



2 Green infrastructure
Public space areas to be recovered and rehabilitated were established.



3 New urbanism
Unified, modified, and proposed blocks. Non block consolidating roads were redesigned.

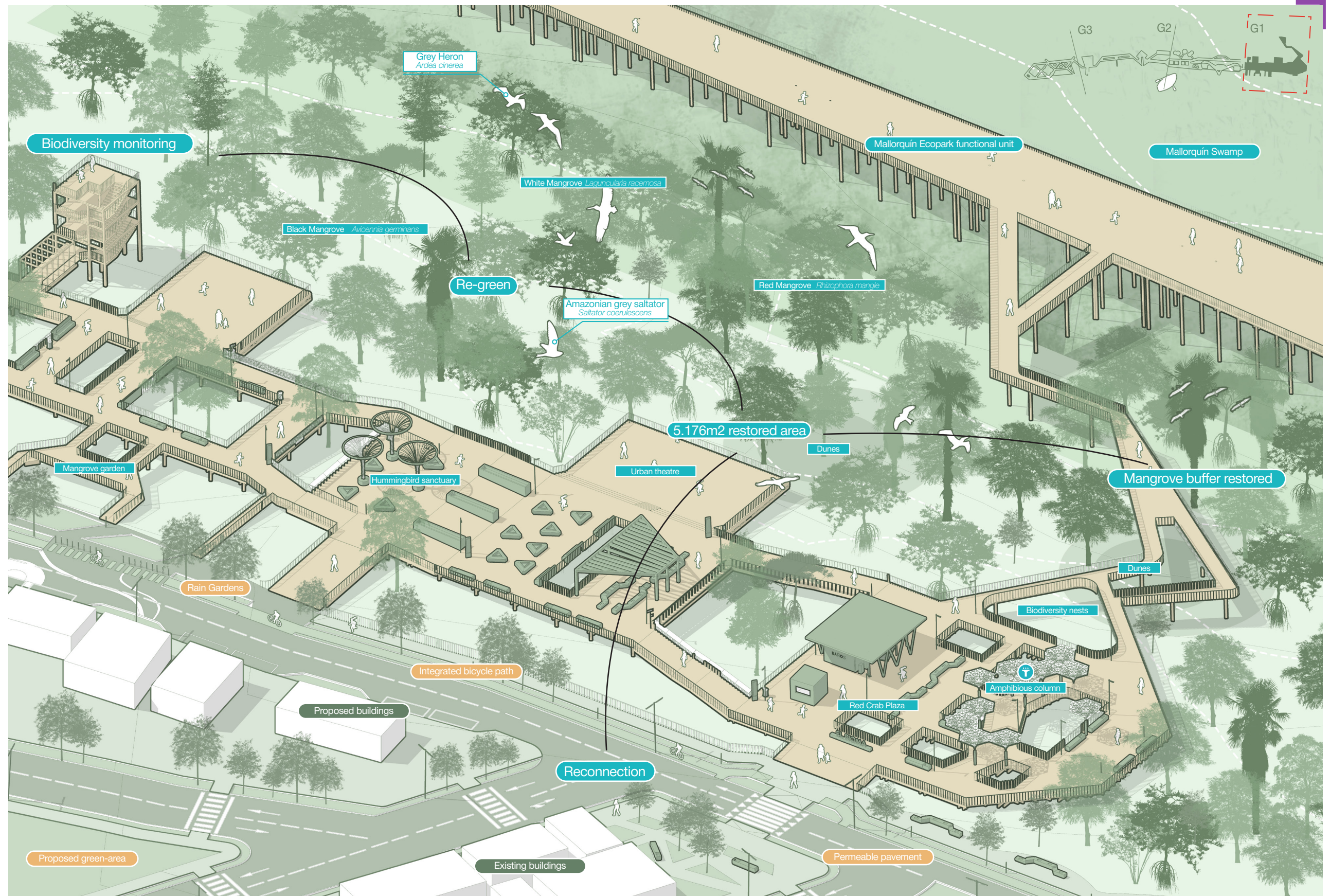


Master Plan La Playa

- 1 Health center
- 2 Interconnected green area
- 3 Palafitic housing
- 4 Rain gardens
- 5 Ecological corridor
- 6 Productive housing
- 7 Urban Plaza
- 8 Comercial corridor



Red Crab Plaza



Country/City

Colombia / Barranquilla

University / School

Universidad del Norte / Escuela de Arquitectura, Urbanismo y Diseño EAUD

Academic year

2023

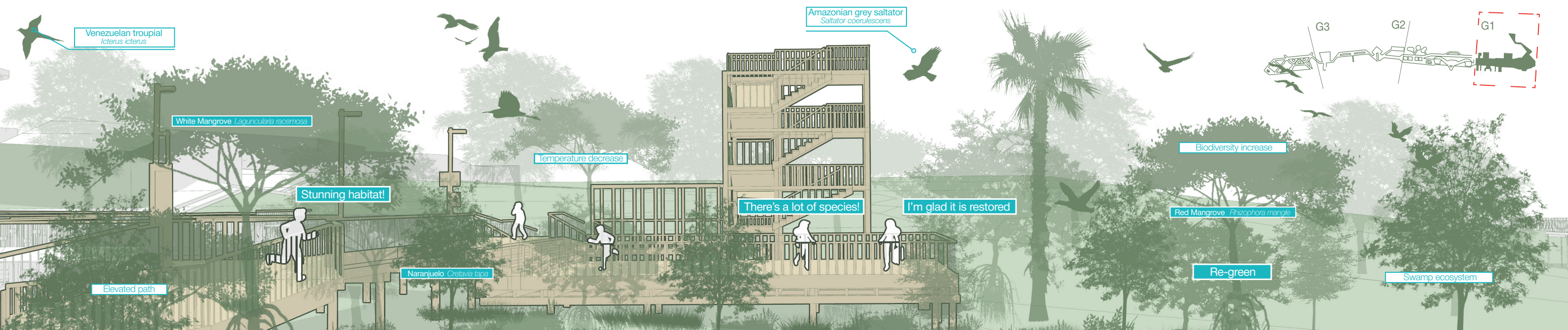
Title of the project

Ecological corridor El Bioma: Restoring the swamp through ecological design

Authors

Arturo Andrés Morales Castillo

Title of the project	Ecological corridor El Bioma: Restoring the swamp through ecological design
Authors	Arturo Andrés Morales Castillo
Title of the course	Taller de Ciudad I: Espacio público y diseño urbano
Academic year	2023
Teaching Staff	Arch. Carlos Bueno
Department / Section / Program of belonging	Departamento de Arquitectura y Urbanismo
University / School	Universidad del Norte / Escuela de Arquitectura, Urbanismo y Diseño EAUD



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

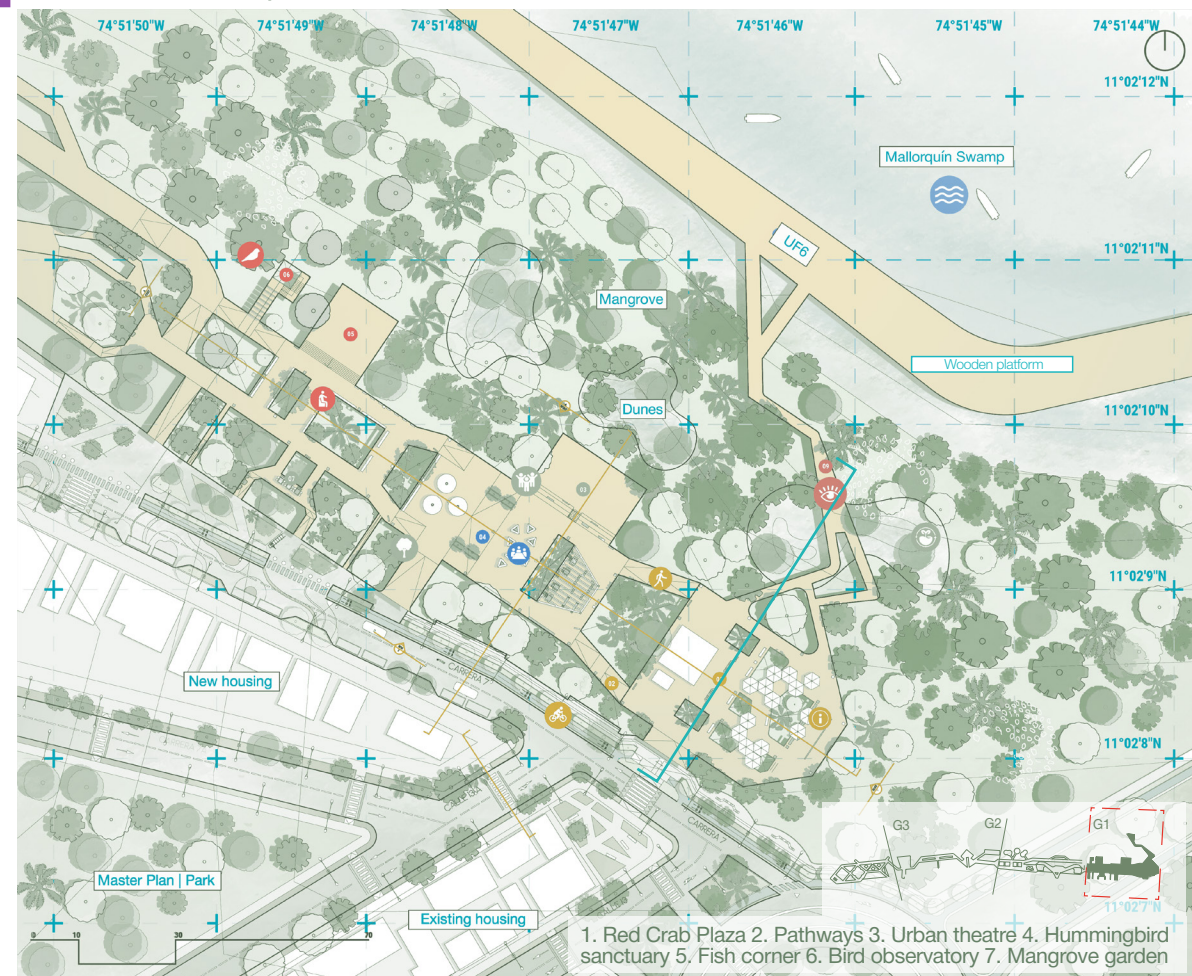
The Mallorquín Swamp, a Ramsar site located in Barranquilla Colombia, faces several ecological challenges. Between 1980 and 2010, this wetland lost over 43% of its area caused by self-built housing, mangrove deforestation and natural sedimentation due to a 2,300-meter-long breakwater built in the 1930s. These factors led to ecosystem degradation, coastal erosion, and recurrent flooding that still affects La Playa community. Despite the challenges, this wetland remains ecologically valuable and is now part of Barranquilla's official green structure. Building on this framework, the project “El Bioma” is envisioned as an ecological corridor formed by a 5.176m2 platform integrated with nature-based solutions, creating a resilient transition between urban fabric and natural ecosystems. The platform is designed as a wooden palafitic structure to reduce urban risk while enabling human-nonhuman interactions. It features community spaces such as urban theater, bike paths, and passive recreation areas, alongside public facilities for environmental education and monitoring. The proposed nature-based solutions seek to boost resilience and provide coastal protection through mangrove reforestation with native red, white, and black species, the integration of SuDS for rainwater management, and green swales. Fundamentally, the project addresses environmental degradation by restoring the ecosystem and integrating spaces that link community and landscape through education, public access, and ecological dynamics.

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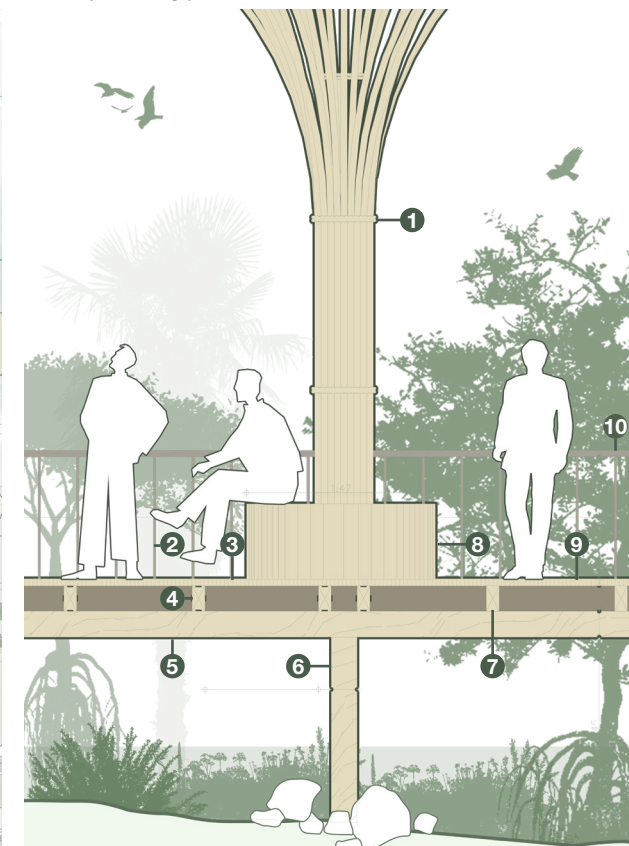
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“El Bioma” Urban plan



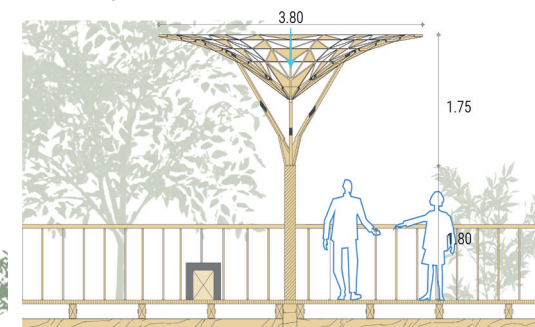
1. Red Crab Plaza 2. Pathways 3. Urban theatre 4. Hummingbird sanctuary 5. Fish corner 6. Bird observatory 7. Mangrove garden

Path prototype structure

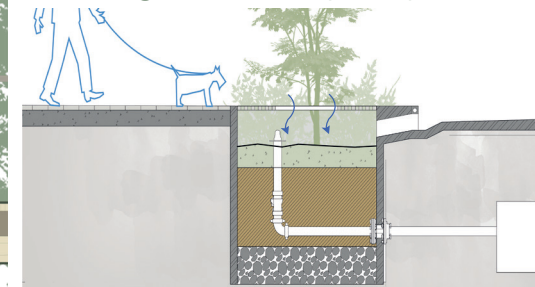


1. Horizontal guadua ties 2. Vertical bars 0.05 yellow pine wood 3. Horizontal guadua ties 4. 3/4 x 8" bolts 5. Inferior beam 0.2 x 0.10 m 6. Structural pile 0.20 yellow pine wood 7. Joists in yellow pine wood 0.20 x 0.10 m 8. Urban furniture 0.5m 9. Laminated wood floor 0.05m 10. Handrail 0,05m

Amphibious column detail



Rain-garden detail (SuDS)



Retaining wall detail



Landscape units



Vegetation atlas



Red Mangrove / *Rhizophora mangle* / Prop roots trap sediment and stabilize shorelines, crucial for protecting the edge of La Playa against coastal and tidal erosion.



White Mangrove / *Laguncularia racemosa* / Suitable for higher, drier zones within El Bioma, particularly near community gathering areas and pathways.



Black Mangrove / *Avicennia germinans* / Its aerial roots improve soil aeration and support microbial activity, boosting the bioremediation of contaminated or compacted soils.



Naranjuelo / *Cretavia tapa* / Its dense foliage and nectar-rich flowers provide habitat and food for a wide range of pollinators and bird species, enhancing local biodiversity.

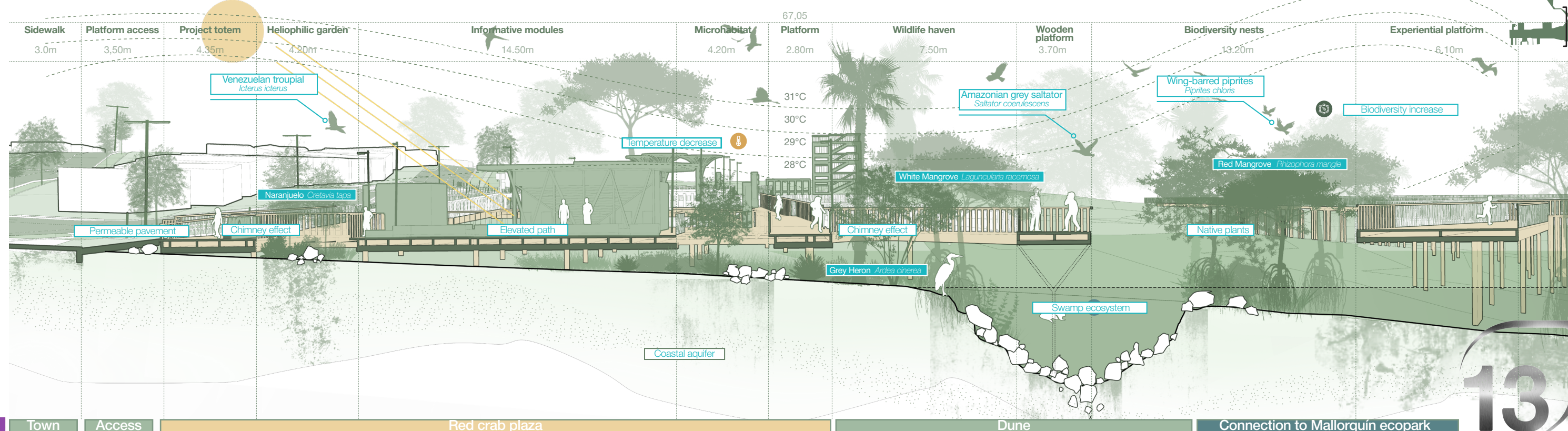


Guayuyo / *Muntingia calabura* / Its fast-growing crown and year-round fruit production offer continuous shelter and nourishment for the local fauna.



Membrillo / *Gustavia superba* / Helps regulate urban microclimates, reduces surface runoff, and stabilizes soils.

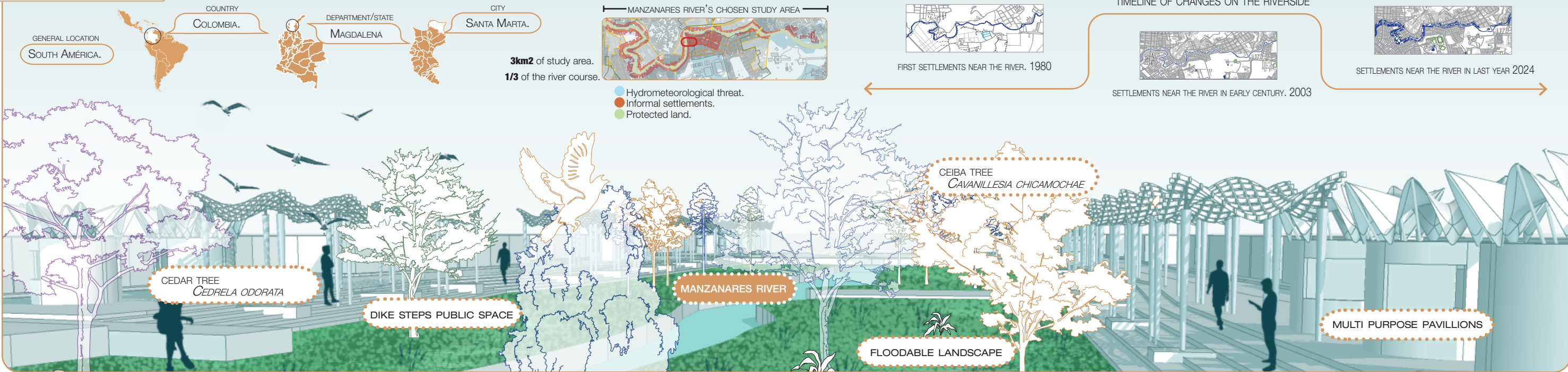
Urban section



REHABILITATING THE RIVERBANKS
PROPOSING NEW EDGES TO RESTORE THE CITY-RIVER CONNECTION.

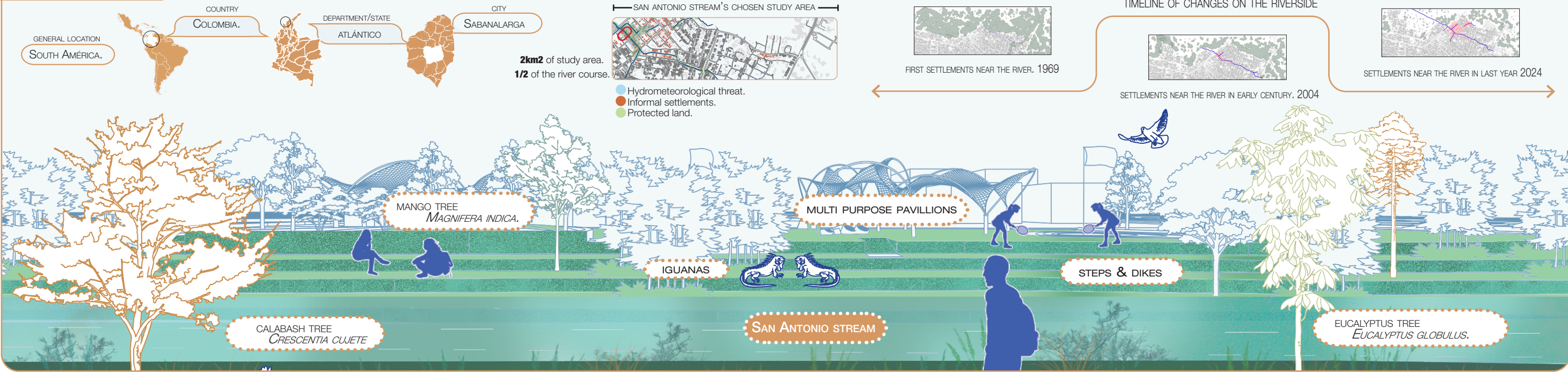
Throughout history, the development of humanity has been intrinsically linked to bodies of water; the first vestiges of civilization emerged around rivers, streams, lagoons, creeks and seas. Even now, the city we have built cannot separate itself from the water, and the rivers fight for the life of their banks that is not compatible with the concrete that is imposed on it. The caribbean region of Colombia has an extensive hydrographic network that allows an even more extense diversity of life. And as we still want to co-exist with it this is a study case sugesting some changes that need happen first.

CASE 01: SANTA MARTA



Conceptual visualization of the riverbank intervention. Visualization location in map.

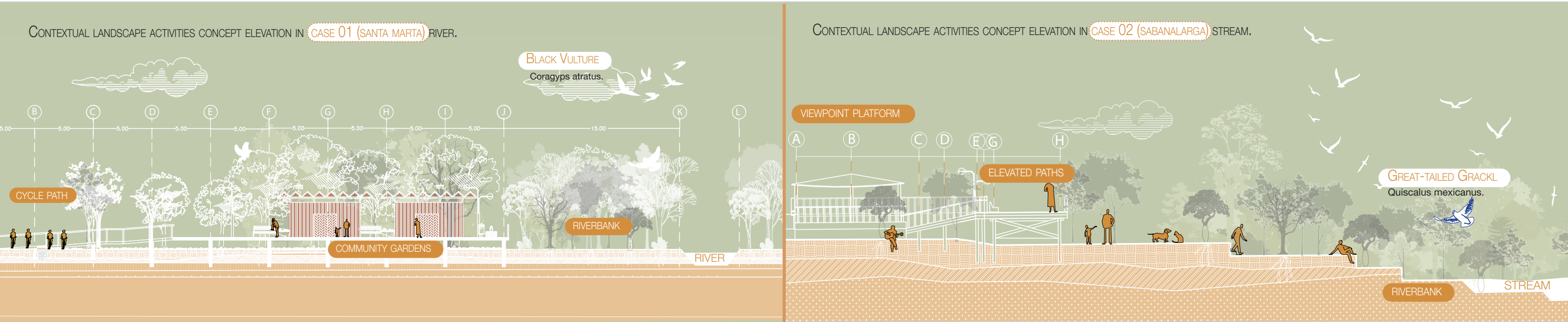
CASE 02: SABANALARGA



Conceptual visualization of the riverbank intervention. Visualization location in map.

Country/City	Barranquilla, Atlantico, Colombia.
University / School	Universidad del Norte / Escuela de Arquitectura, Urbanismo y Diseño EAUD
Academic year	2025
Title of the project	Rehabilitating the Riverbanks: Proposing new edges to restore the city-river connection.
Authors	Ángela Freyle Sanjuanelo; Arianne Manotas Domenech.

Title of the project	Rehabilitating the Riverbanks: Proposing new edges to restore the city-river connection.
Authors	Ángela Freyle Sanjuanelo; Arianne Manotas Domenech.
Title of the course	Proyecto de grado I & II
Academic year	2025
Teaching Staff	PhD. Claudia Lucía Rojas Bernal.
Department / Section / Program of belonging	Departamento de Arquitectura y Urbanismo.
University / School	Universidad del Norte / Escuela de Arquitectura, Urbanismo y Diseño EAUD.



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

“Rehabilitating the Riverbanks” is a research-by-design project that addresses the conflictive relationship between human settlements and rivers in the Colombia’s Caribbean region, focusing on the San Antonio stream in Sabanalarga and the Manzanares River in Santa Marta. Despite their different scales— the former is ~2 kilometers long and the latter 18 kilometers—both face issues like unplanned urban growth, encroachment, biodiversity loss, and pollution, intensified by climate change. Communities along these rivers are vulnerable to flooding, lack of infrastructure, and disconnection from urban areas.

The research uses comparative analysis and mapping to understand socioeconomic and environmental vulnerabilities, integrating historical data, urban forms, landscape features, and community insights. The project proposes landscape strategies that blend nature-based solutions with urban acupuncture to restore and redefine the urban-river transition. It also includes new housing designs responsive to the landscape. Ultimately, the project aims to elevate water’s ecological, social, and cultural value through restoration, reconnection, and spatial transformation.

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CASE 01: SANTA MARTA

URBAN PROPOSED PLAN

urban fabric elements



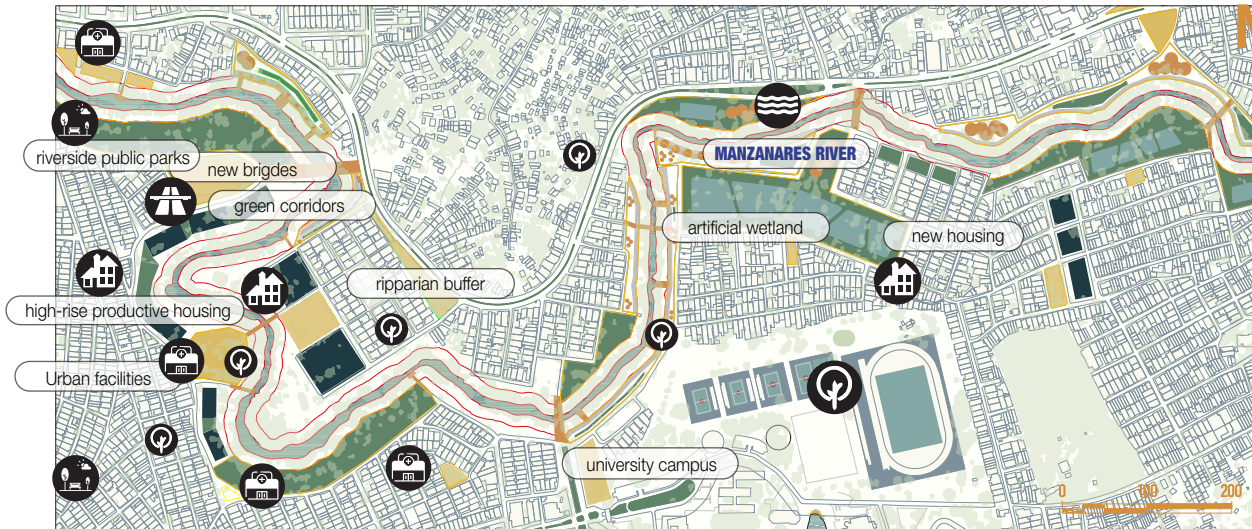
Urban block system



building system



woodlands areas

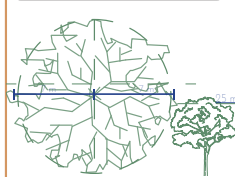


SANTA MARTA'S

VEGETATION ATLAS

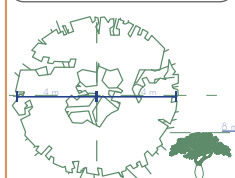
CEDRO TREE

Cedrela odorata



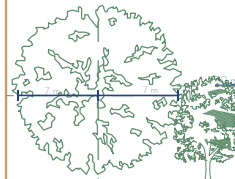
CEIBA TREE

Cavanillesia chicamochae

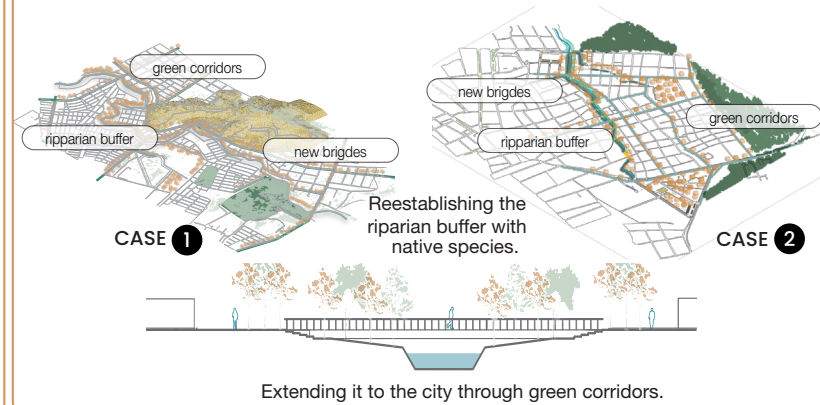


MANGO TREE

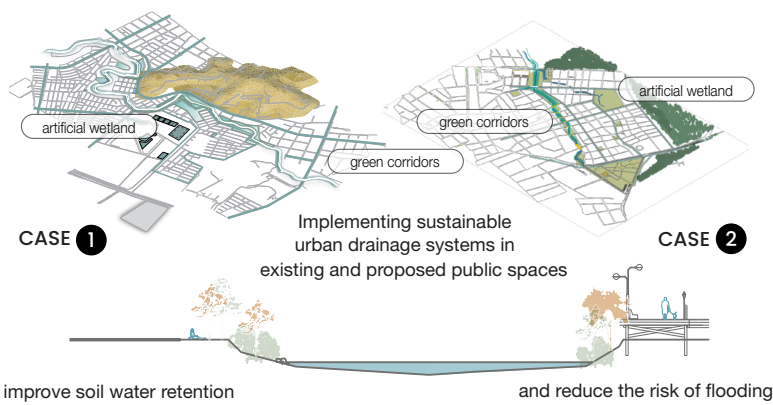
Mangifera indica



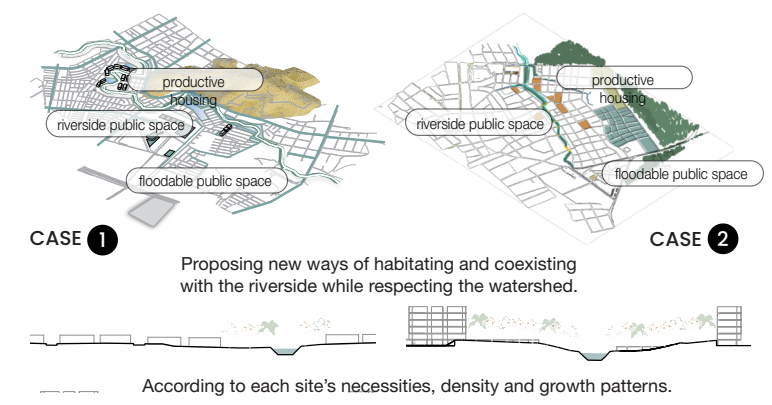
REHABILITATE



MITIGATE



ADAPT



CASE 02: SABANALARGA

URBAN PROPOSED PLAN

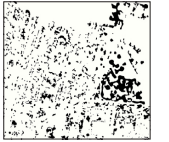
urban fabric elements



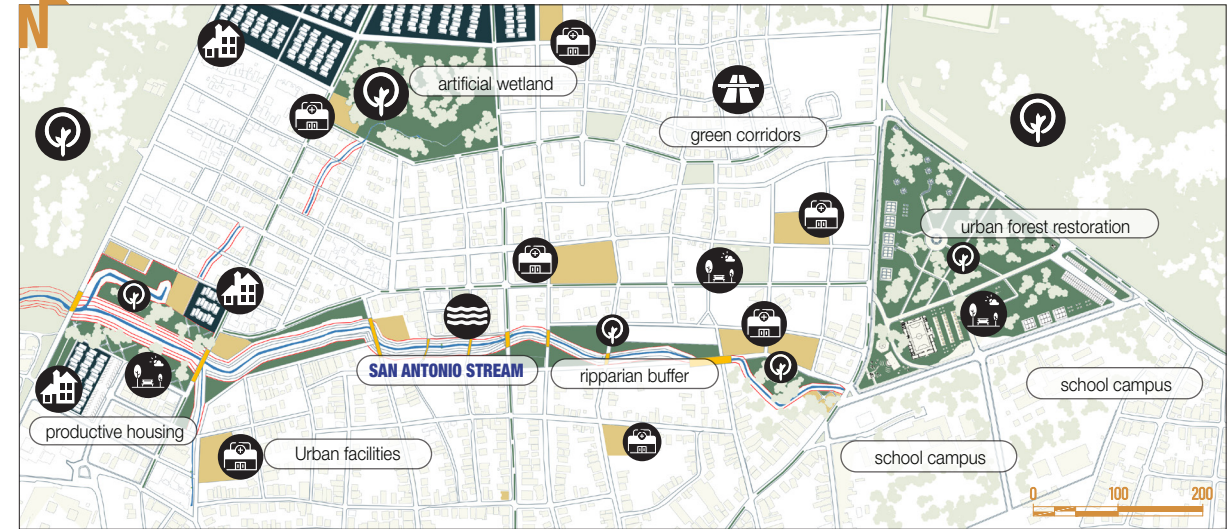
Urban block system



building system



woodlands areas

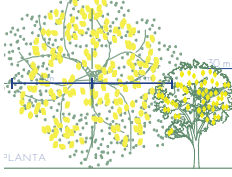


SABANALARGA'S

VEGETATION ATLAS

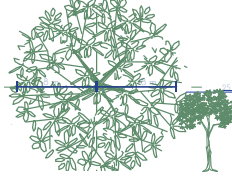
CAÑAGUATE TREE

Roseodendron chrysseum



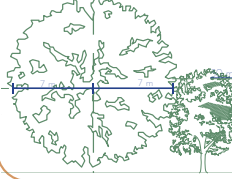
CAMAJÓN TREE

Sterculia apetala

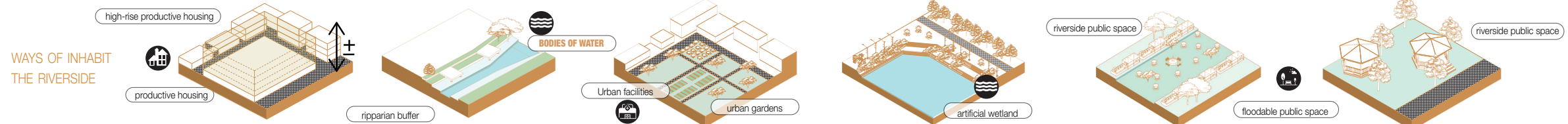


MANGO TREE

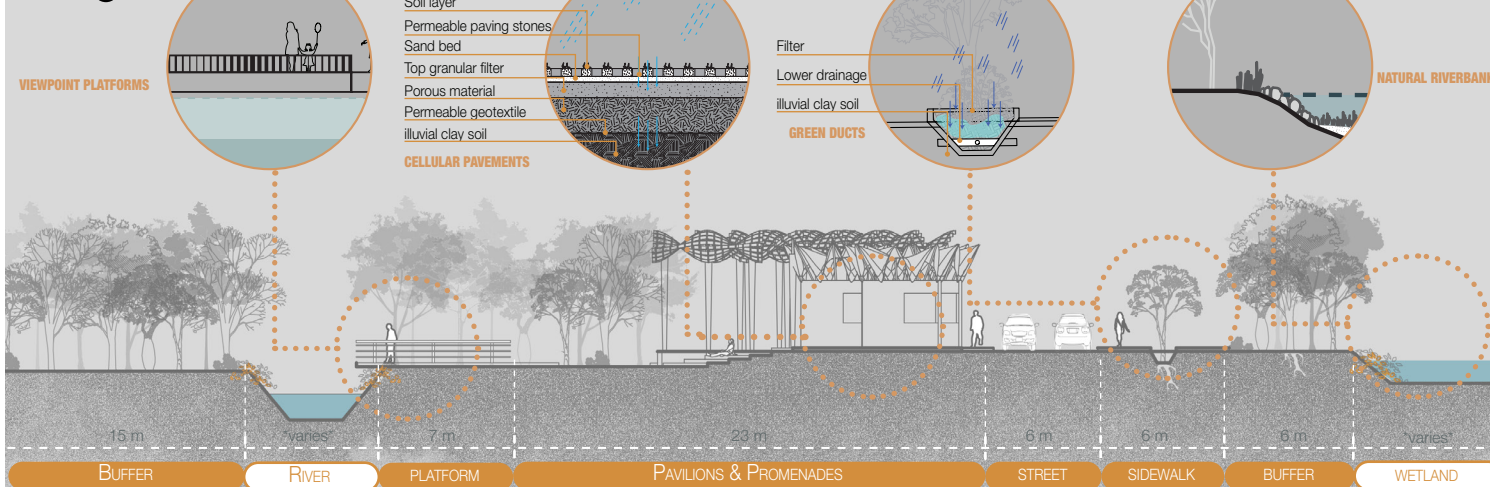
Mangifera indica



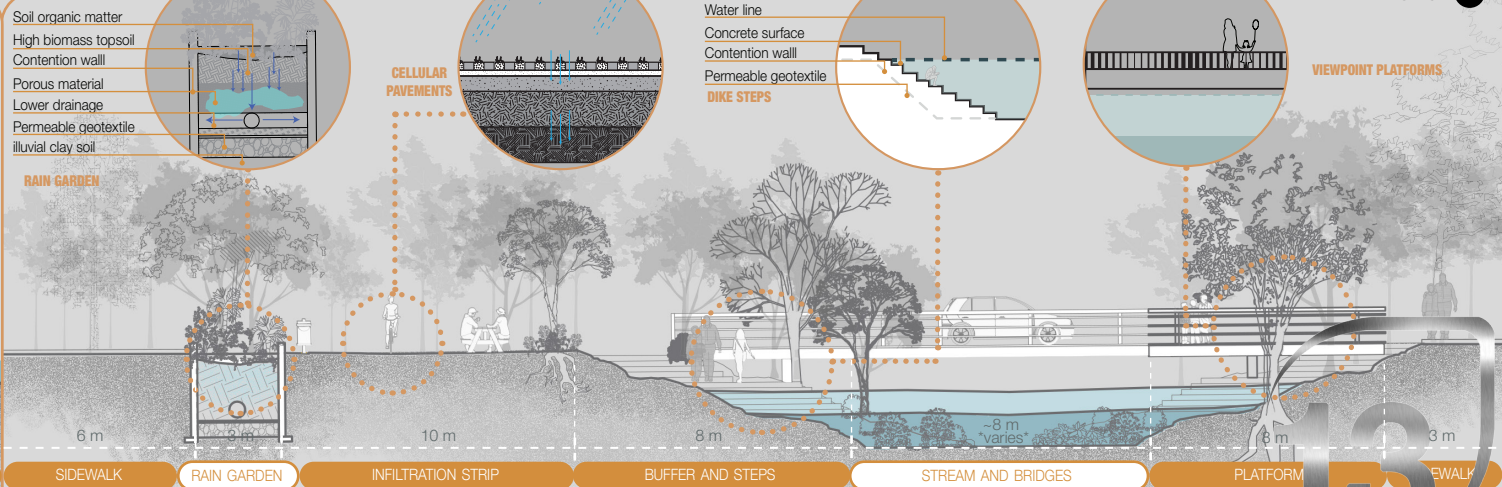
COMMON STRATEGIES FOR LANDSCAPE SPACES



CASE 1



CASE 2



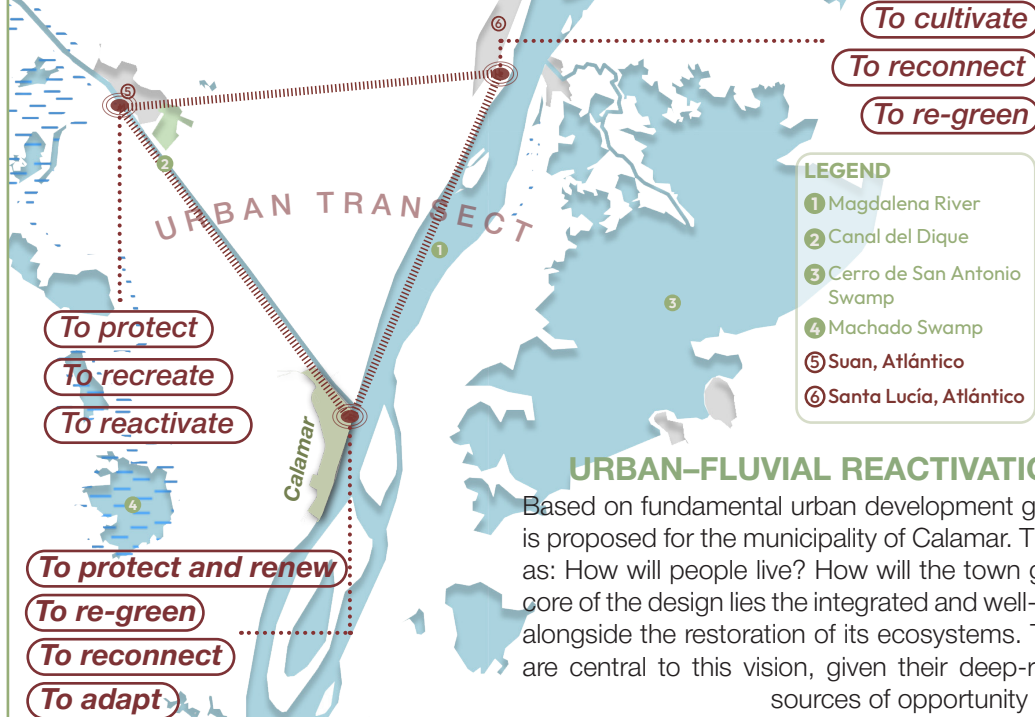
SECTION DETAILS GREEN-BLUE INFRASTRUCTURE LANDSCAPES IN CASE 01 (SANTA MARTA) RIVER.

SECTION DETAILS GREEN-BLUE INFRASTRUCTURE LANDSCAPES IN CASE 02 (SABANALARGA) STREAM.

WATER MEMORIES

ECOSYSTEM AND ENVIRONMENTAL RESTORATION

A strategic approach aimed at restoring the functional relationships between natural ecosystems and urban environments, promoting biodiversity, ecological balance, and long-term environmental resilience.



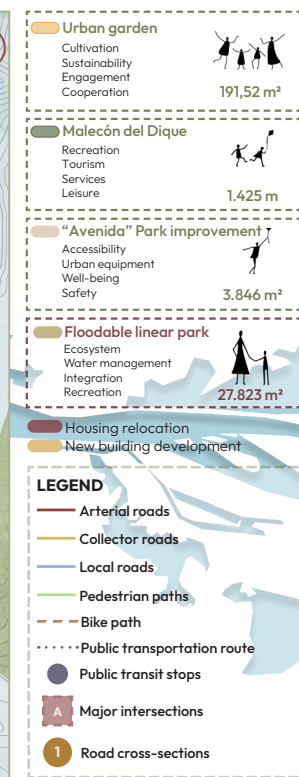
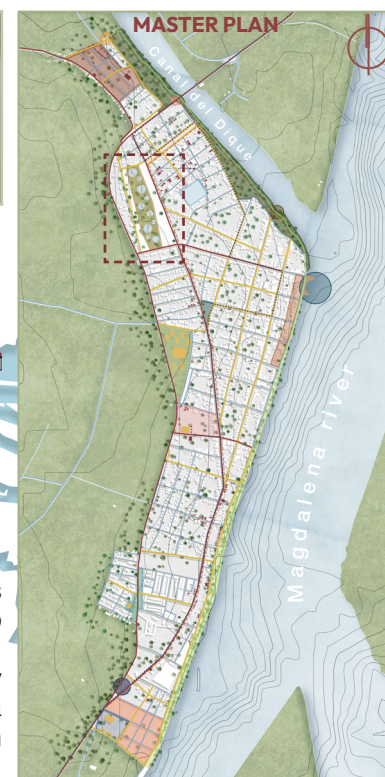
URBAN-FLUVIAL REACTIVATION | ECOSYSTEMIC RECOVERY

Based on fundamental urban development guidelines, a comprehensive development plan is proposed for the municipality of Calamar. This plan directly addresses key questions such as: How will people live? How will the town grow? And how will risks be mitigated? At the core of the design lies the integrated and well-equipped connection of the entire municipality, alongside the restoration of its ecosystems. The Canal del Dique and the Magdalena River are central to this vision, given their deep-rooted connection to the territory — both as sources of opportunity and as potential threats.

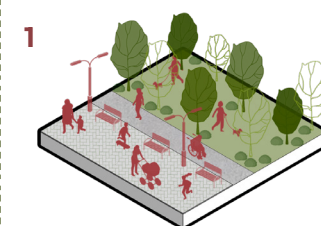


CONCLUSIONS

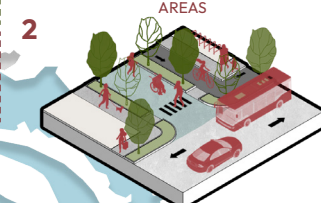
The urban transect faces similar challenges and has been affected by flooding due to its proximity to numerous bodies of water. Calamar was chosen as an opportunity to address these issues and reconnect a community that once turned its back on the river and the canal.



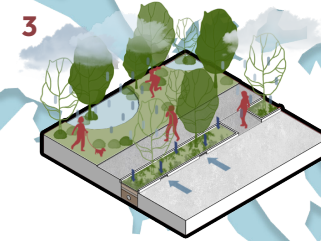
URBAN UNIT STRATEGIES



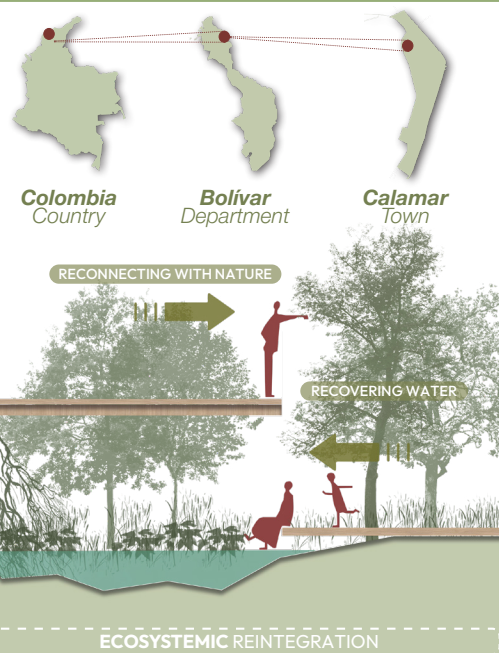
1 INTEGRATION OF PUBLIC SPACE AND GREEN AREAS



2 EFFICIENCY IN MOBILITY SYSTEMS



3 STORMWATER AND WETLAND MANAGEMENT



FLOODABLE ECOPARK



PUBLIC SPACE - RIVER



ECOLOGICAL CORRIDOR



WATER MANAGEMENT

Proper water management to regulate the hydrological cycle, ensuring a balance between precipitation, runoff, and infiltration in order to prevent floods and droughts.

Associated species

REFORESTATION

Planting trees and native vegetation to restore habitats and enhance biodiversity.

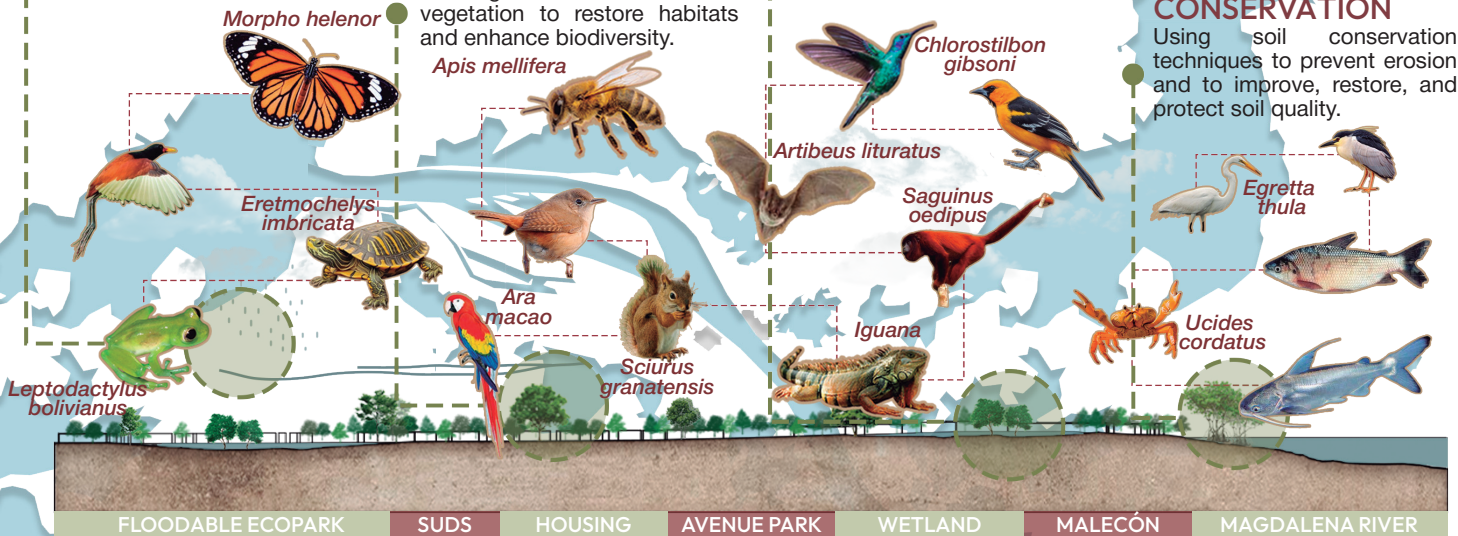
WETLAND RESTORATION

Recovering and protecting wetlands to improve water quality and provide critical habitats for many species.

NBS STRATEGIES

SOIL CONSERVATION

Using soil conservation techniques to prevent erosion and to improve, restore, and protect soil quality.



Country/City

Barranquilla, Atlántico, Colombia

University / School

Universidad del Norte / Escuela de Arquitectura, Urbanismo y Diseño EAUD

Academic year

2024

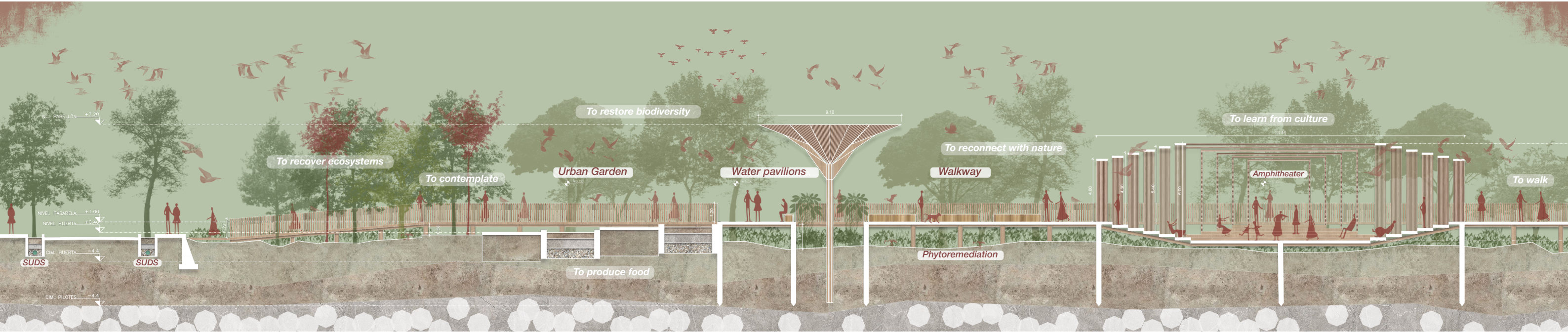
Title of the project

Water Memories - Ecosystem and environmental restoration in Calamar, Bolívar

Authors

Alejandro José Díaz Vence

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Authors	Alejandro José Díaz Vence
Title of the course	Taller de Ciudad I: Diseño Urbano y Espacio Público
Academic year	2024
Teaching Staff	Arch. Martha Castilla Riasco
Department / Section / Program of belonging	Departamento de Arquitectura y Urbanismo
University / School	Universidad del Norte / Escuela de Arquitectura, Urbanismo y Diseño EAUD



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

Suan, Santa Lucía, and Calamar are three towns located at the confluence of the Magdalena River and the Canal del Dique, in the Colombian Caribbean region. These three municipalities face common challenges related to flooding caused by rainfall, river overflows, and poor land use, among other factors. The original landscape in the area—a mosaic of wetlands and tropical forests—has been replaced by agro-industrial activities, monocultures, and barren land. In addition, there is a deficit of public/green spaces, economic opportunities, and social facilities in these municipalities. “Water Memories” is a public space designed to serve the community of Calamar as an Ecosystem Reintegrator, grounded in ecological trails and environmental culture. It proposes the creation of a Floodable Wetland Ecopark in an untouched green zone prone to flooding due to rainfall and pre-existing wetlands. The project seeks to restore ecosystems related to water resources, rehabilitate soil and water quality, provide green spaces to reconnect with nature and foster social interaction, and contribute to increasing the public/green space per inhabitant in the municipality. To achieve all of this, approximately 36,000 m² were designed for the intervention, through designated areas for wetland treatment, the planting of various phytoremediation species, SUDS like rain gardens (and others), and the definition of environmental development axes set to establish the activities that the community will be able to carry out.

Barcelona International Landscape Biennial

Contact via email:
biennaladm@coac.net

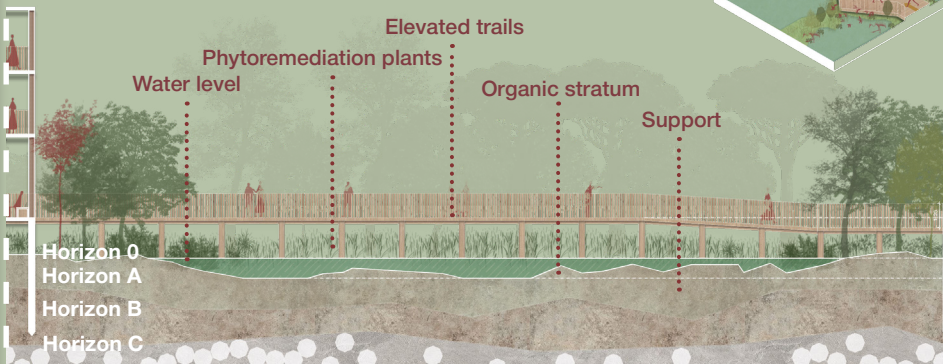
Venue:
COAC - Col·legi Oficial d'Arquitectes de Catalunya
Carrer Arcs 1-3, 08002 Barcelona - Spain

1. South access platform.
2. West access.
3. Lower viewpoints.
4. Southern wetland.
5. River-Canal overlook.
6. Recreational forest.
7. Upper viewpoints.
8. West walkway.
9. East access platform.
10. Central plaza.
11. Contemplation steps.
12. Lower trails.
13. Dock.
14. Central wetland.
15. Bike path.
16. Cultural amphitheater.
17. Water pavilions.
18. Urban gardens.
19. Living museum.
20. Northern wetland.
21. North access platform.
22. East and west residential edges.



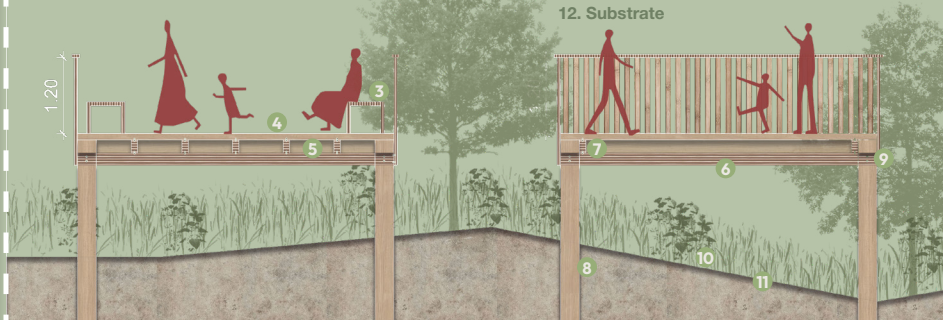
D1 | WETLAND TREATMENT

The cultivation of phytoremediating species is a process similar to that of constructed wetlands. Water is required to sustain the plants, while they filter and/or absorb contaminants through their roots, accumulate them, transport them through their stems, and eventually release them through their leaves.



D1 | ELEVATED TRAILS

1. Handrail Support 0.10m
2. Wooden Upright 0.05m x 1.20m
3. Bench Furniture 0.50m x 0.60m
4. Wooden Floor Decking 0.05m
5. Structural Joists Made of Inoculated Pine Wood 0.10m x 0.20m
6. 0.10m x 0.20m Wooden Structural Beams
7. 3/8" Anchor Dowel/Chassis
8. 0.30m Immunized Pine Driven Pile
9. 3/8" Anchor Bolts
10. Low Vegetation
11. Zero Horizon
12. Substrate

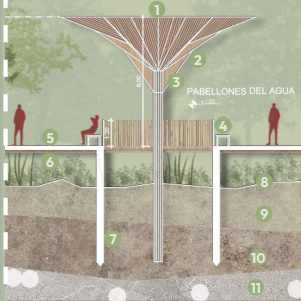


D3 | PAVILION

The pavilion serves as a space for shade and rest, it is a tree-shaped column, consisting of a central pillar.

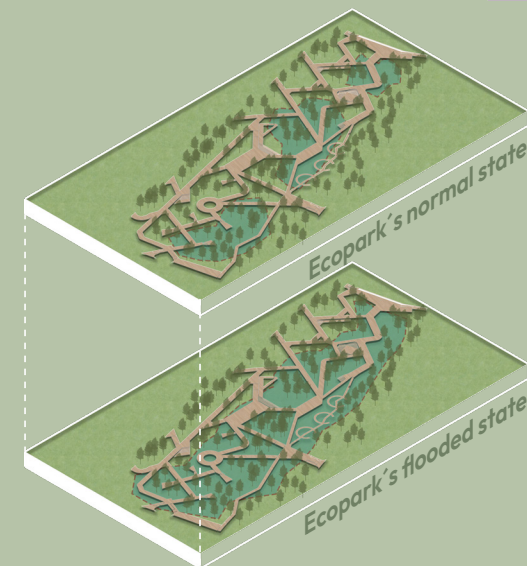
LEGEND

1. Wooden cover
2. Supports
3. Central pile
4. Seat bench module
5. Wooden decking
6. Structural beam
7. Driven pile
8. Horizon 0
9. Horizon A
10. Horizon B
11. Horizon C



D4 | SUDS

1. Leaf mulch
2. Substrate
3. Sand-compost mix
4. Gravel with drains
5. Perforated PVC pipe
6. Retaining wall
7. Permeable platform
8. Permeable road



VEGETATION ATLAS

CARACOLÍ
Anacardium excelsum
Native

Fauna
Birds
Insects
Reptiles

Uses and functions
Tolerates periodic flooding
Pollutant retention
Soil restoration
Windbreak

RED MANGROVE
Rhizophora mangle
Native

Fauna
Birds
Crustaceans

Uses and functions
Timber
Flood resistance
Windbreak
Ecological restoration

ORANGE TREE
Cratogeomys
Native

Fauna
Birds

Uses and functions
Ornamental - Fruit
Flood-drought resistant
Ecological restoration
Live fence

Shrubby plants



1. **Brassica juncea:** (Indian mustard) tolerant to moderate drought.
2. **Vetiveria zizanioides:** (vetiver) Highly resistant, good erosion control and absorption.
3. **Prosopis juliflora:** (algarrobo) Shrub highly resistant to drought.