



Country / City BOGOTÁ / COLOMBIA

University / School UNIVERSIDAD DE LOS ANDES

Academic year 2019

Title of the project MULTIFUNCTIONAL BORDERS IN THE GUALÍ WETLANDS

Authors Daniel Bermudez + Paula Ferro + Victor Mosquera + Germán Peñaranda + Miguel Steiner + Natalia Perico



TECHNICAL DOSSIER

Title of the project MULTIFUNCTIONAL BORDERS IN THE GUALÍ WETLANDS

Authors Daniel Bermúdez; Paula Ferro; Victor Mosquera; Germán Peñaranda; Natalia Perico; Miguel Steiner

Title of the course INTERMEDIATE UNIT OF LANDSCAPE ARCHITECTURE

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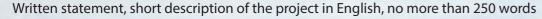
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Department/Section/Program of belonging DEPARTMENT OF DESIGN AND ARCHITECTURE / INTERMEDIATE

UNITS / UNDERGRAD ARCHITECTURE PROGRAM

University/School UNIVERSIDAD DE LOS ANDES





This project is the first step in the semester-long study of the Gualí Wetlands in Funza, in the outskirts of Bogotá. It consists of a master plan within this 1196 hectare ecosystem that could serve to articulate the main agents that coexist around it - industries, agriculture, road networks, urbanization and floriculture - with the wildlife and ecological structure of the wetland. Since these relationships are stronger and have greater impact on the outer limits and riverbanks of the wetland, our strategy focuses on intervening only these areas. The interventions are defined based on the type of agent that is dominant in a certain area as well as the topographic tendency of the land. All of them are designed and sought out to provide a multifunctional use of the land that can serve the agent in the same way that it serves the ecosystem, forming a better relationship between human infrastructures and natural landscape. An important technique that can be found in many areas of the project is water depuration, which consists of planting specific species of flora that are native to the wetland to help cleanse the waters that have been polluted by industries or urbanization. Considering the constant expansion of Bogotá onto its neighboring municipalities, this project is thought out in a long term where it could very well be part of the city.

For further information

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CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

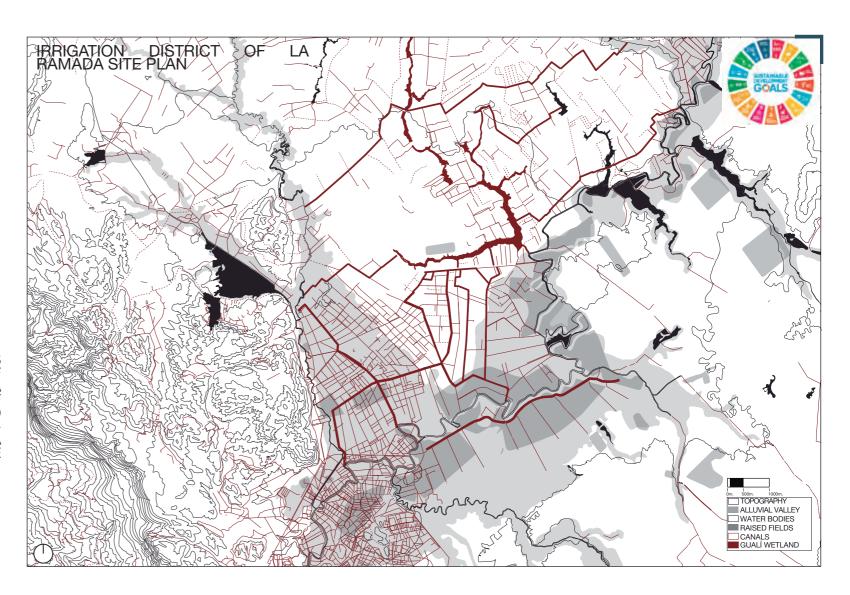
Barcelona September 2020 SCHOOL PRIZE

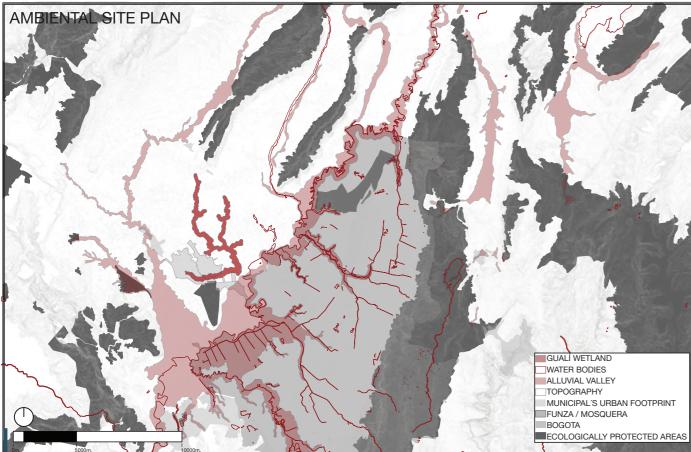
SITE ANALYSIS

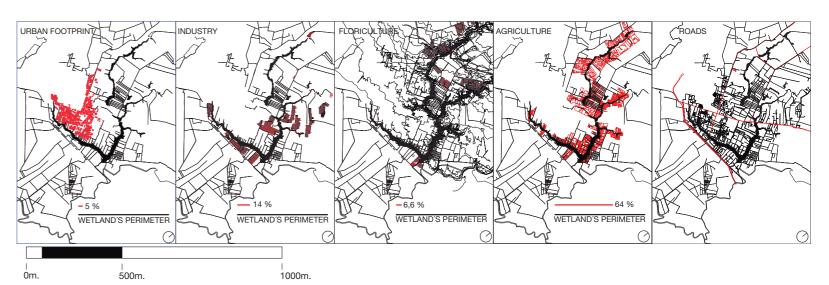




IN 1926 GOVERNMENT AUTHORITIES CREATED THE IRRIGATION DISTRICT OF LA RAMADA (DISTRITO DE RIEGO DE LA RAMADA) IN THE OUTSKIRTS OF BOGOTA. THE MAIN GOAL WAS TO CONTROL THE RECURRING INUNDATIONS IN THIS FLOODPLAIN SAVANNA TO INCREASE NEARBY PRODUCTIVE AREAS.







URBAN FOOTPRINT

INDUSTRY UNCONTROLLED AND RAPID DISPOSAL OF GARBAGE AND DRAIN EXPANSION TENDENCIES COLLIDE WITH WATER GO TO THE WETLAND THE WETLAND CREATING RESIDUAL OR UNRESOLVED AREAS IN THEIR BARRIER.

FLORICULTURE

WATER EXTRACTION TO LAGOONS FOR STORAGE AND INTERNAL IRRIGATION. CONTAMINATES THE WATER WITH PESTICIDES AND FERTILIZERS.

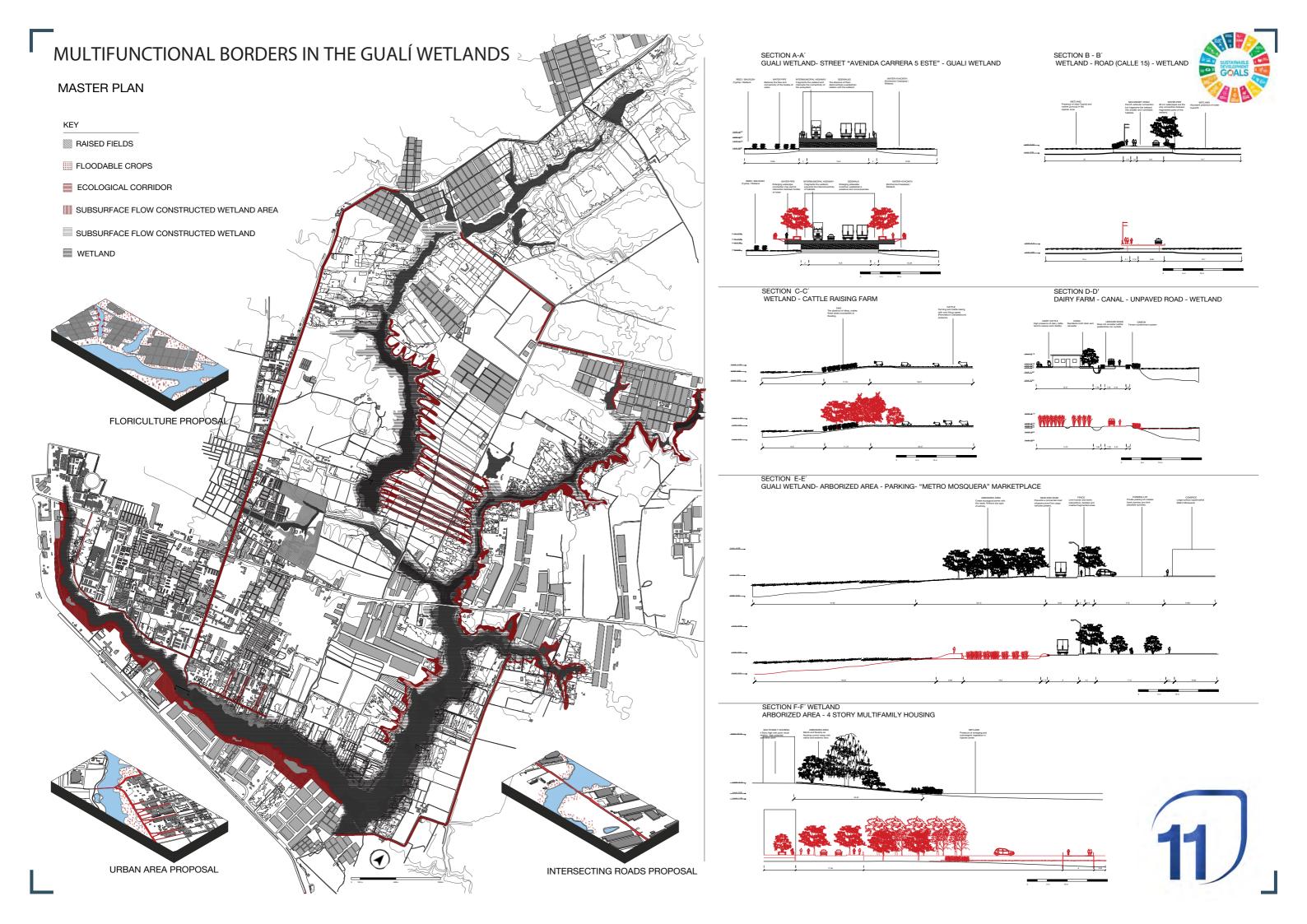
ARGICULTURE

WATER EXTRACTION FOR IRRIGATION FRAGMENT THE WETLAND INTO VARIOUS, SMALLER VULNERABLE CONTAMINATES THE WATER WITH WETLANDS.

PESTICIDES AND FERTILIZERS. PESTICIDES AND FERTILIZERS.



THESE HUMAN ACTIVITIES WITH THE GUALI WETLAND HAVE BEEN IDENTIFIED. EACH OF THEM HAVE A DIFFERENT TYPE OF INTERACTION WITH THE WETLAND. FROM THESE POOR INTERACTIONS, THE FOLLOWING PROJECT EMERGED.



PROJECT STRATEGIES

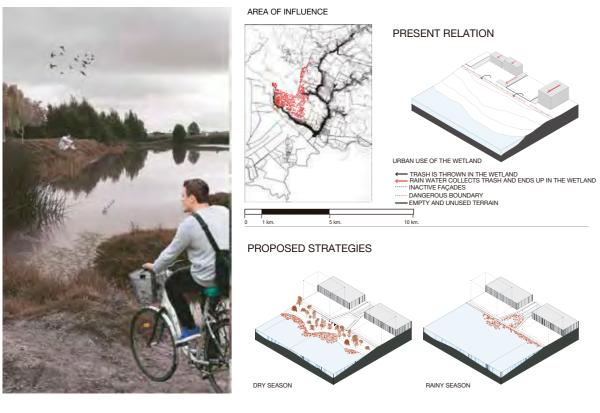


ROAD NETWORK

INTERSECTING ROADS

RECONNECTING A FRAGMENTED ESCOSYSTEM

URBAN AREA
CREATING A FACE FOR THE WETLAND



AREA OF INFLUENCE

INDUSTRIES WATER DEPURATION AND CLEANSING



AREA OF INFLUENCE PRESENT RELATION INDUSTRIAL USE OF THE WETLAND CHEMICALS AND CONTAMINATED WATERS ARE DISPOSED OF IN THE WETLAND ← RAIN WATER COLLECTS TRASH AND ENDS UP IN THE WETLAND

PROPOSED STRATEGIES



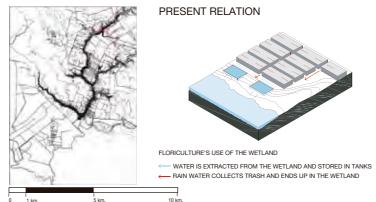
PRESENT RELATION

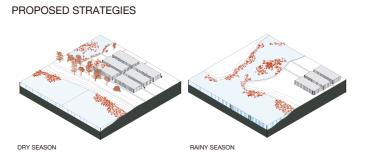


- ← TRASH IS THROWN IN THE WETLAND
 ← RAIN WATER COLLECTS TRASH AND ENDS UP IN THE WETLAND
 INACTIVE FAÇADES
 ← AGRESSIVE BOUNDARY AND LACK OF PUBLIC SPACE
 ← AREA WHERE TRASH AND DEBRIS ACCUMULATES

FLORICULTURE REVERSING THE WATER EXTRACTING PROCESS

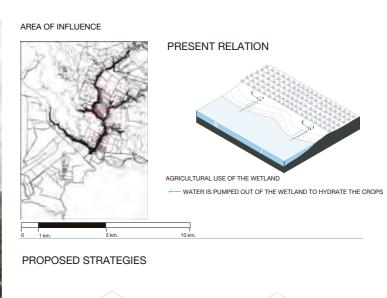






AGRICULTURE ALLOWING FLOODABLE CROPS





PROPOSED STRATEGIES

