

Country / City LEBANON / BEIRUT
University / School AMERICAN UNIVERSITY OF BEIRUT

Academic year YEAR 3

Title of the project UNVEILING BIODIVERSE ANFEH

Authors TARA KANJ





PERFORMATIVE NATURE

Barcelona International Landscape Architecture Biennial

September 2018 Barcelona SCHOOL PRIZE

X International Landscape Architecture Biennial

Máster d'Arquitectura del Paisatge -DUOT - UPC
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TECHNICAL DOSSIER

Title of the project Unveiling Biodiverse Anfeh

Authors Tara Kanj

Title of the course Cultural Landscape Design
Academic year Landscape Year II - 2017

Teaching Staff

Dr. Maria Gabriella Trovato and Ms. Nahida Khalil

Department/Section/Program of belonging Landscape Architecture

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

Anfeh, located on the northern coast of lebanon, is one the most culturally rich and biodiverse areas of the region. in this design, a previously neglected, uniquely scarce coastal area will be transformed to a sustainable marine protected site rich in biodiversity, which caters for educational and distinct marine studies. The objectives are as follows:



Protection of the site from surrounding threats, sources of pollution, and harmful activities, as well as the establishment of decrees ending illegal privatization.



Preservation of the site's distinct natural features and biodiversity including the rare geomorphology, flora, and fauna



Amelioration of the site's current condition by assisting in natural processes through providing services that have been depleted, synthesizing micro-environments that enhance biodiversity, and adding a research facility.

Education hotspot since the site is exceptionally unique in the entirety of the region, as well as the presence of explanatory signage, accessibility to previously unreachable areas resulting in a potential for sustainable studies.

For further information

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DECREE No4810,241966/

(conditionaluseof the maritime publicdomain): principle, the maritime public domain remains for the use of everybody. projects to be executed should have a public character

DecreeLawNo 144/S,106

The maritime public domain consists of seashore till the far-thest distance that the wave could reach in winter and sands shores and pebbles

LawNo4810

The privatization of the beach is possible, the built area should be synchronized with the envi-









There exists a major risk of global extinction, so they to protected.Vermited reefs host an abundant variety of biodiverse fauna and also prevent waves from arashing on the shore.



The penetration of sun-light enhances biodivesi-



Enhances biodiversity & prevents major erosión.

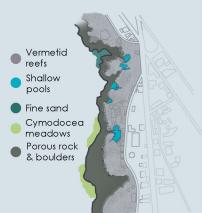
Fine Sand



Enhances the seagrass growth and attracts



Feeding ground for sea turtles and many other species.









Invasive form of algae which accumulates plastic. they retain so much plastic and toxins from the water and deposit them on the rocks. They cause disseases to the sea turtles since they feed ont them.



Poorly built septic tanks are leading to sewage leakage.

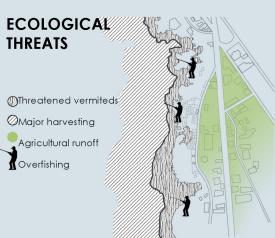
Mutated plaktonic residue from the accumulation of polution.



Agricultural runoff from nearby lands causing eutrophica-tion.

Las Salinas and Marina del Sol are causing major maritime pollution.











LITHOTHAMNION CORALLIOIDES

Phyllangia americana CYMODOCEA





































THE MARINE BIODIVERSITY



EPINEPHELUS MARGINATUS



EPINEPHELUS AENEUS



PAPAVER SOMNIFERUM



ORNITHOGLUM MONTANUM



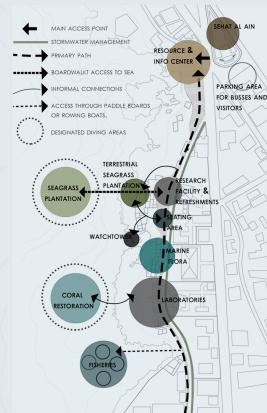
SALVIA

POLYCARPON TETRAPHYLLUM

ARTIPLEX PATULA

ECHIUM GLOMERATUM





CONCEPTUAL DIAGRAM







QUADRAT FISHERIES

A GOOD COMPENSATION FOR THE OVERFISHING. BREED AND HARVEST IN ORDER TO REPOPULATE, AND STUDY.

PADDLE BOARDS

ACCESS TO FISHERIES THROUGH PADDLE BOARDS

ROWING BOATS

A SUSTAINABLE WAY TO GET TO THE FISHERIES. MADE POSSIBLE THROUGH THE REVIVAL OF THE PORT.

NATIVE MARINE FLORA

PLANTING SALT TOLERANT NATIVE FLORA IN RE-MEDIATED SALT PANS.

LABORATORIES

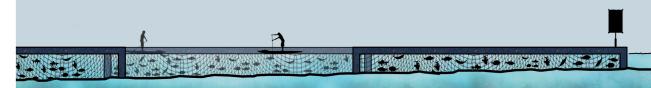
EQUIPPED MULTIPURPOSE LABORATORIES SPECIALIZING IN CORAL RESTORATION

RESTAURANT AND RESTROOMS

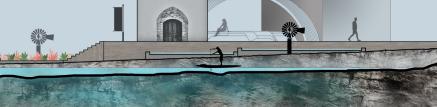
RESTAURANT AND BATHROOMS WITH SHOWERS. WATER IS REUSED FROM THE WATER HARVESTING SYSTEM

SMALL PORT

REVIVAL OF PORT THAT WAS INAC-CESSIBLE DUE TO ILLEGAL BUILD-ING

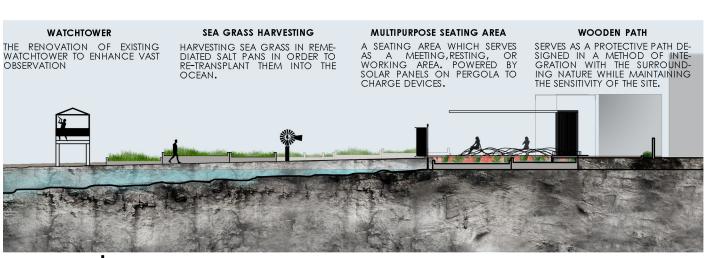








ROWING BOATS QUADRAT FISHERIES PADDLE BOARDS SMALL PORT NATIVE MARINE FLORA RESEARCH FACILITY A GOOD COMPENSATION FOR ACCESS TO FISHERIES THROUGH REVIVAL OF PORT THAT WAS INAC-A SUSTAINABLE WAY TO GET TO PLANTING SALT TOLERANT NATIVE A RESEARCH FACILITY IN A PREVI-THE OVERFISHING, BREED AND CESSIBLE DUE TO ILLEGAL BUILD-THE FISHERIES. MADE POSSIBLE FLORA IN RE-MEDIATED SALT OUSLY ILLEGALLY BUILT CHALET. HARVEST IN ORDER TO REPOPU-THROUGH THE REVIVAL OF THE LATE, AND STUDY. SECTION A-A'







SECTION B-B'

MULTIPURPOSE SEATING AREA



