E17
NALÓN ESTUARY

TERRA FLUXUS

Dynamics, Processes and Times: the Estuary as a Complex Adaptive System

"Ainda há muitos y mapas de miseravia"
"Green from mountains and black from minerals"

Asturias had two colors, two visions that characterized it for Pedro Barthe. Coal transformed a territory that had been agricultural, poor, and rural into a land of industry, wealth, and immigration from which the rivermill road likewise, marking the neighboring Nevalense block, lanes, embankments, wagons, washing facilities, the river flowing with dirty water, the chestnut trees cut down...

The unmistakable extraction of natural resources, driven by an excess of consumption as a symbol, subjected the Nalón estuary to a strong process of transformation in a short period of time. The lack of consideration for natural aesthetics during the past century encouraged by the industrialization of the territory, has left a landscape scarred by the consequences of the exploitation of its resources. Today, the estuary and the human factors have ceased to be mere observers and have become an indispensable element for the transformation of the territory, giving rise to a kind of conglomerate of artifacts and natures. This territory is perceived as a heterogeneous mixture of contrasting identities. The coexistence between the natural and the artificial, the industrial and the residential, the urban and the rural, the past and the present, is the result of the emergence of formations building and urban planning models that vary within their genetic code the conflict upon which they are built.

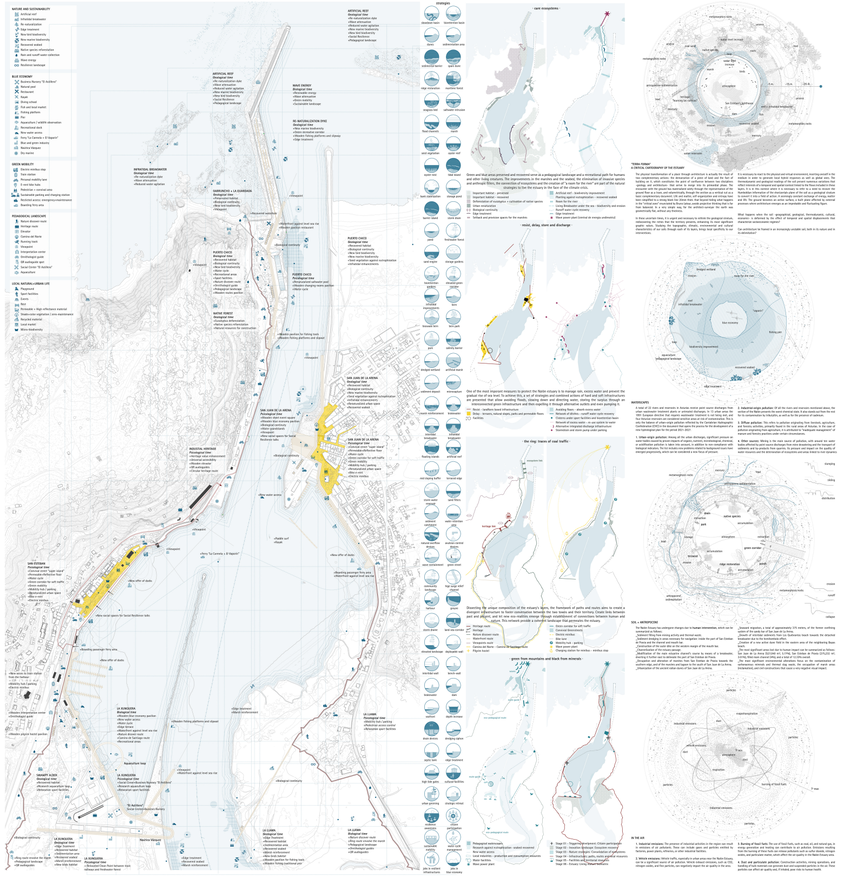
The proposal understands that the recovery of the fragile relationship between the place's heritage oneness and ecologically vulnerable generational transition involves consolidating and enhancing inherited diversity and inactivities, adapting them to modernity and climate crisis. Therefore, the project proposes a transformation of the estuary's landscape, from a mere passive element to an active agent in the creation of identity", fostering a deep connection between humans and nature. Environmental is sought in a state of consciousness and awareness between neighbors and their natural surroundings, which will be achieved through the creation of a new cultural landscape that will serve as a catalyst for the process of accommodating any productive, economic, ecosystemic, sustainable, residential, or work spaces is not doable but gives way to changing processes. The estuary is understood as a living, breathing, and changing entity, and the project aims to create a framework that allows for its natural evolution to the entire network which the rest of the nature-based strategies are articulated. In this line of thought, the construction of a generative landscape based on paths, greenways and flows that integrate different forms of interaction with nature is proposed. The estuary emerges as an inhabitable territory, a place where the relationship between humans and nature is reconciled, promoting healthy habits, coexistence, and self-sufficiency, enabling the use of resources and territorial management within a circular ecosystem.

TERRA FLUXUS offers a practical application of the lessons learned from the writes of Robert Smithson, Gilles Clément, James Corner, Bruno Latour, Miriam Kanty, Rosaly Tranmirmiel, and Toni Calais Arcosa, to reinterpret the conventional re-age of a culturally designated but strongly identified landscape from an antiseated perspective and with concern for the current climate crisis. Today, more than ever, in this times of uncertainty, it is necessary to understand that it is not enough to mount and preserve an original state, reconstruct under the lens of nostalgia, but rather to accept the changes that time and nature impose on us, and to adapt to them in the most sustainable way possible. Therefore, the design, planning, and strategies based on the understanding of the estuary as a complex adaptive system that adapts to changes introduced by human activity.

NOTIONS OF THERMODYNAMICS AND RESILIENCE: chaos and self-organization.
The application of the Prigogine's Drivers of dissipative structures and Holling's panarchic approach provides an integrative perspective of open systems, where the interaction between humans and nature is understood as a dynamic and evolving process. Resilience is not limited to the ability to resist disturbances, and it can be applied as a lens conceptualize the aesthetic of an abandoned landscape. The estuary is being reshuffles the response of an ecosystem capable of adapting to changes introduced by human activity. Within our proposal, it can maintain its structure and reshaped by the exchanging of its subsystems as part of a larger complex is essential. The proposal does not chase the prevailing opinion that considers the estuary deserted of its subsystems as part of a larger complex is essential. The proposal does not chase the prevailing opinion that considers the estuary deserted and announces for a state of overprotection, balance, or rest that condemns it to "thermal death." Instead, it insists in its re-signification as a space for experimentation, research, and environmental relocation. It adapted for new strategies for socio-ecological systems that nourish with the interaction between humans and nature, and that can be applied to other estuaries with similar problems.

DYNAMIC LANDSCAPE: from Terra Nova to Terra Fluxus.
The project is based on the idea of a dynamic landscape, defined upon way in favor of the shifting processes covering through and across the urban fabric Terra Fluxus. This means designing and planning time processes of long duration and global scale, while being prepared for minor and rapid disturbances at the local scale. The proposal experiments with new areas of opportunity in contemporary architectural thinking and urban planning, where the boundaries between the natural and the artificial are blurred, and the built environment is in a constant state of flux.

Through the study of the estuary's over the various adaptive cycles of the estuary, the following executed with economic protection and the idea of not causing "impacts" on the environment to adapt it to new human needs on the front of the climate emergency is demystified.


NATURE AND SUSTAINABILITY
Natural Park
Ambitious landscape
Re-naturalization
Edge treatment
New bird biodiversity
Natural water treatment
Terraced orchard
Native species reforestation
Natural water treatment plantation
Solar energy
Resilience landscape
BLUE ECONOMY
Economic Nucleus "El Acebeo"
Natural pool
Restaurant
Bar area
Dining school
Fish and mussel market
Fishing platform
PARK
Aquaculture / wildlife observation
Recreational dock
Terra native access
Bird watching area "El Espacio"
Blue and green economy
Nautical Vasquez
Dry marina
BRIDGE MOBILITY
Electric minibus stop
Tram station
Electric mobility hub
E-rent bike hubs
Pedestrian + cicorsal path
Pedestrian bridge + fishing station
Multimodal access: emergency/maintenance
Boarding ferry area
PRESERVING LANDSCAPE
Nature discover route
Heritage area
Circular
Museum del Barrio
Running track
Viewpoint
Contemplative corner
Ornithological park
Off-roadspeak spot
Social Center "El Acebeo"
Aquarium
LOCAL NATURAL-URBAN LIFE
Playground
Multi-purpose
Sports
Skil
Pickleball + High reflectance material
Skatepark engineered / area maintenance
Local market
Urban biodiversity
ARTIFICIAL REEF
Ecological Use
Offshore artificial reef
Offers attractive
Offers marine habitat
Offers tourist biodiversity
Tourist Attraction
Tourist Business
Ecological & landscape
WAVE ENERGY
Ecological Use
Renewable energy
Offers habitat
Offers stability
Sustainable landscape
RE-NATURALIZATION ZONE
Ecological Use
Natural habitat recovery
Offers habitat
Offers biodiversity
Offers a natural
Offers a fishing platform and viewing
Edge treatment
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Ecological Use
Offshore artificial reef
Offers attractive
Offers marine habitat
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Ecological & landscape
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Tourist Business
Ecological & landscape
ANTIGUAL BOUNDARIES
Ecological Use
Natural habitat
Offers habitat
Offers biodiversity
Offers a natural
Offers a fishing platform and viewing
Edge treatment
PUERTO CHICO
Ecological Use
Recovered habitat
Offers habitat
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SAN JUAN DE LA ARENA