ECO-PLATFORMS

JACKSONVILLE, FLORIDA

The effects of climate change are generating high economic and natural costs throughout the planet. Entire cities are seeing their critical infrastructures threatened, by floods, by high levels of solar radiation that cause waves of heat, devastating hurricanes, or even earthquakes. The extreme damage from these natural disasters is often directly related to how we have developed and designed our cities. Little by little, we have been depriving nature of the tools it needs to control the different forces and energies that make our planet work. We have created an imbalance in our ecosystems, and it costs us our flora, fauna, and our cities.

These systems will be composed of a series of individual floating ecosystems that will act as buffers, reducing storm surges' impact. Floating barriers will gradually decrease the force with which the waves approach the shore and decrease their land reach. A simple maritime structure technology will secure floating modules groupings to each other and anchored to land.

Environmentally, the implementation of these floating ecosystem

was evident how vulnerable the water edges were both in the river and on the coasts. The city of Jacksonville had neglected its natural defenses against storm surges and floods to make way for hard and impervious infrastructure. Development increased in the urban core, but little was done to incorporate green spaces. Large sections of the city were unable to prevent and deal with floods.

Today, although many areas should be adapted to help mitigate the flood problem, neighborhoods along the riverfront lack the space to implement ecological strategies. The natural environments along the shores of the St. Johns River that could buffer flooding and inundation have been hardened.

Eco-Platforms presents a solution designed for these specific situations in Jacksonville but can be incorporated into cities with similar characteristics. This prototype revitalizes riverfronts, restoring ecosystems where natural barriers have been eliminated.

Eco-Platforms promotes new flexible ways of redesigning our waterfront cities from an ecological perspective.

floating ferry terminal will allow residents of the neighborhood to take advantage of maritime transportation on the St. John River. In this way, vehicular traffic would be reduced and consequently the need for













































