



Country / City

Canada/Toronto

University / School

The University of Toronto / John H. Daniels Faculty of Architecture, Landscape & Design

Academic year

2019-2020

Title of the project

Flux

Authors

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TECHNICAL DOSSIER

Title of the project Flux
Authors Xueni Hu (MLA), Hilary Anne Todhunter (MLA), Bess Ma (MArc), Melanie Lo (MArc)
Title of the course T.O. superstudio
Academic year 2019-2020
Teaching Staff Fadi Masoud and Mauricio Quiros Pacheco
Department/Section/Program of belonging Master of Landscape Architecture / II
University/School University of Toronto / John H. Daniels Faculty of Architecture, Landscape & Design



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

The naturalization of Toronto's Don River mouth is integral to a resilient vision for the city. Prior to European settlement, Toronto's Don watershed was composed of complex and biodiverse forests and marshland that purified water and mitigated flooding. Lake filling, shoreline alterations and the introduction of industry transformed the Don River's Mouth to a highly industrialized artificial shoreline with little public value and low ecological diversity. High concentrations of hardscape, increased storm intensity due to climate change and seasonal fluctuations in the lakes water level leave 290 hectares of urban land around the mouth of the river subject to flooding every year.

Our project creates a vision of the Don watershed that embodies the values of its ecological significance, potential resiliency and its industrial heritage. The edges of industrial infilled landforms to the south are softened to embrace fluctuating water levels in their use and architecture. The rise and fall of the lake creates engaging, ecologically significant and aesthetic moments both within the landscape and built form. Recreational areas, campgrounds, an elevated boardwalk and an aquarium are concentrated here. Marsh habitats take root in carved shallow bays, they filter pollutants and provide protected areas for the sensitive bird and reptilian species who call this place home. Much of the industrial artifacts are preserved on site as recommissioned buildings, crumbling foundations subject to flooding, and relics overtaken by vegetation. Creating sublime landscapes, they serve as a reminder of the possibility of incredible transformation in resilient landscape design.

For further information
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CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

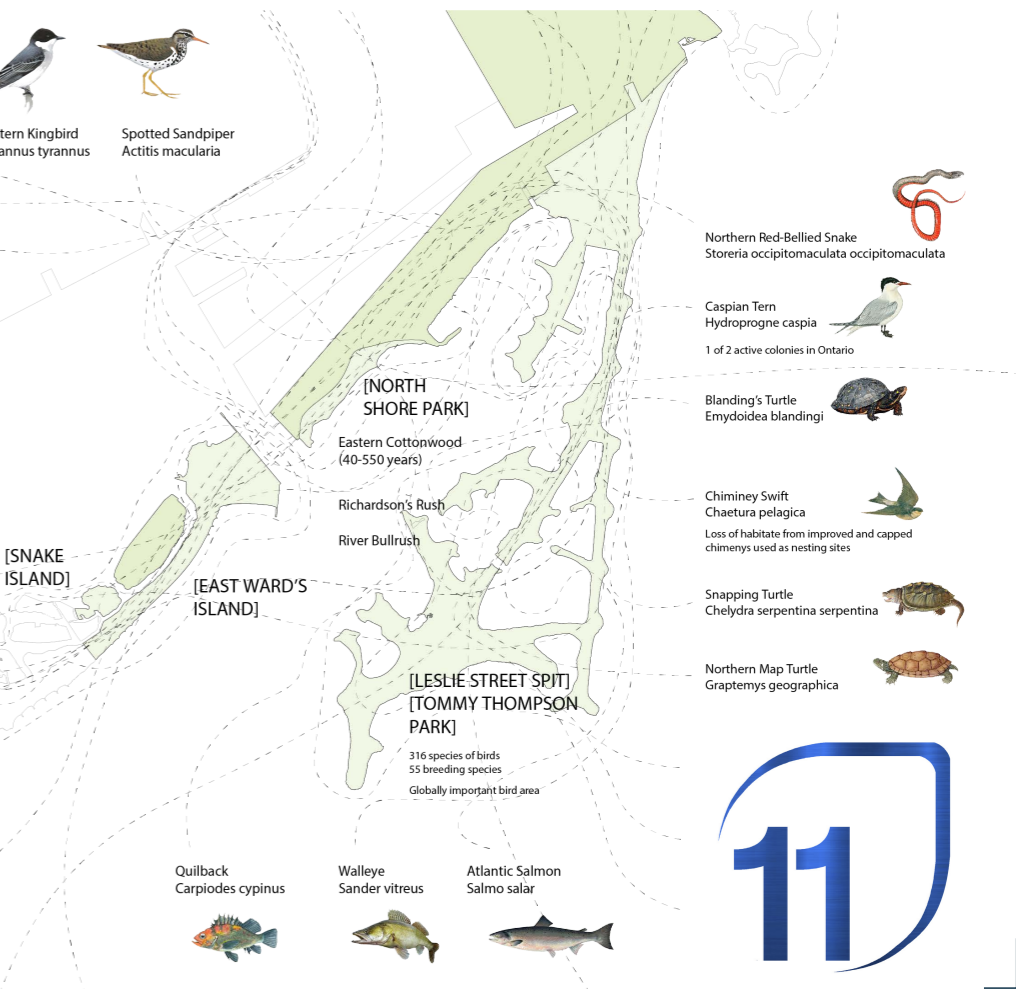
Barcelona September 2020
SCHOOL PRIZE



- Connecting Environmentally Sensitive Areas**
- Barn Swallow**
Hirundo rustica
 - Grey Catbird**
Dumetella carolinensis
 - Eastern Kingbird**
Tyrannus tyrannus
 - Spotted Sandpiper**
Actitis macularia
- Decline in wooden structures for nests and grasslands for insect foraging

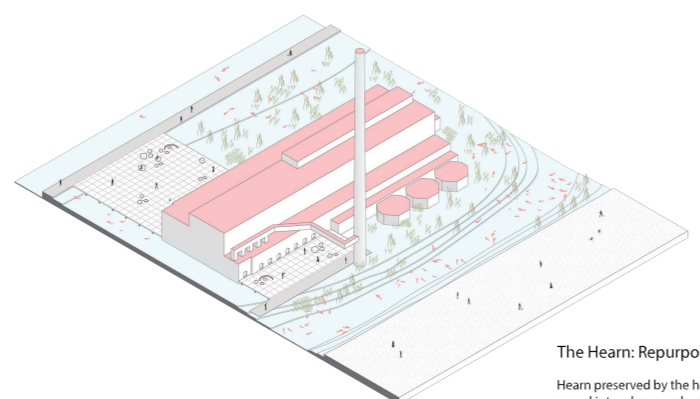
Little or no connectivity for wild life
Minimal connectivity for song birds

- [HANLANS]**
Rare dune complex
Sandy Islands
Barrier beaches
 - [MUGG'S ISLAND]**
 - [FORESTRY ISLAND]**
 - [SNAKE ISLAND]**
 - [EAST WARD'S ISLAND]**
 - [LESLIE STREET SPIT] [TOMMY THOMPSON PARK]**
316 species of birds
55 breeding species
Globally important bird area
- Northern Rough-winged Swallow**
Stelgidopteryx ruficollis
 - Saw Whet owls**
Aegolius acadicus
 - Black-Crowned Night-Heron**
Nycticorax nycticorax
 - Quillback**
Carpoides cypinus
 - Walleye Sander vitreus**
 - Atlantic Salmon**
Salmo salar

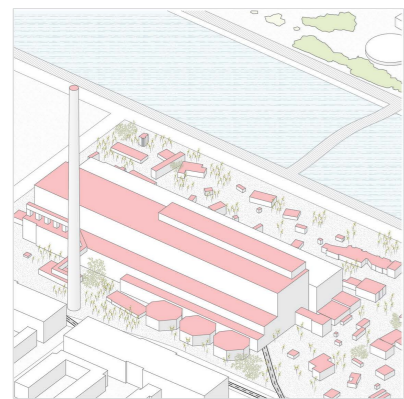




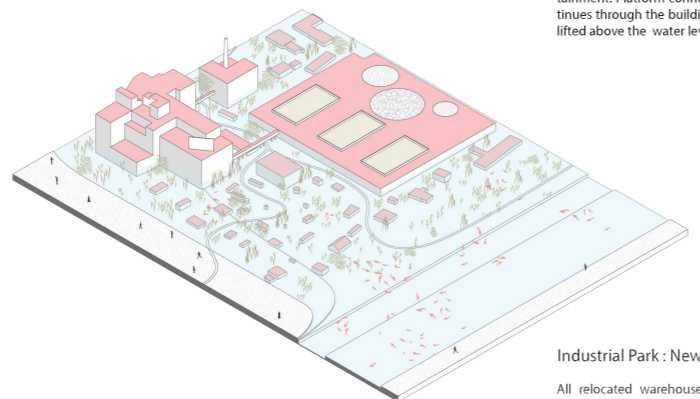
[Sublime Landscape]



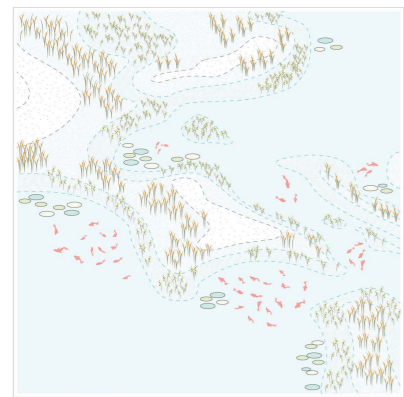
The Hearn: Repurposed Club
Hearn preserved by the heritage board and repurposed into a large scale club owned by INK entertainment. Platform connected to boardwalk continues through the building so that programs are lifted above the water level when flooding occurs



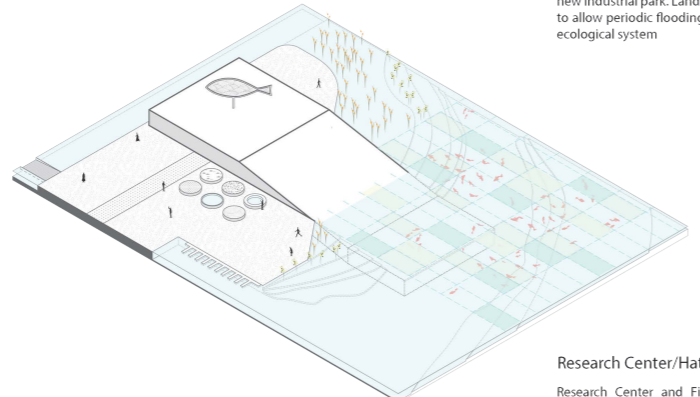
[Industrial Landscape]



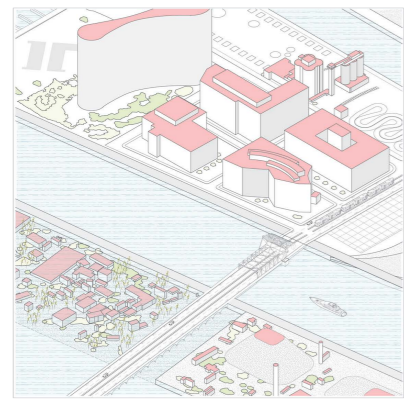
Industrial Park: New Duisburg
All relocated warehouses, and small industrial buildings preserved and maintained on site of new industrial park. Land form altered and carved to allow periodic flooding which allows for a new ecological system



[Picturesque Landscape]



Research Center/Hatchery: Submerged
Research Center and Fish Hatchery in a submerged building typology to facilitate relationships between building and water



[Infrastructural Landscape]



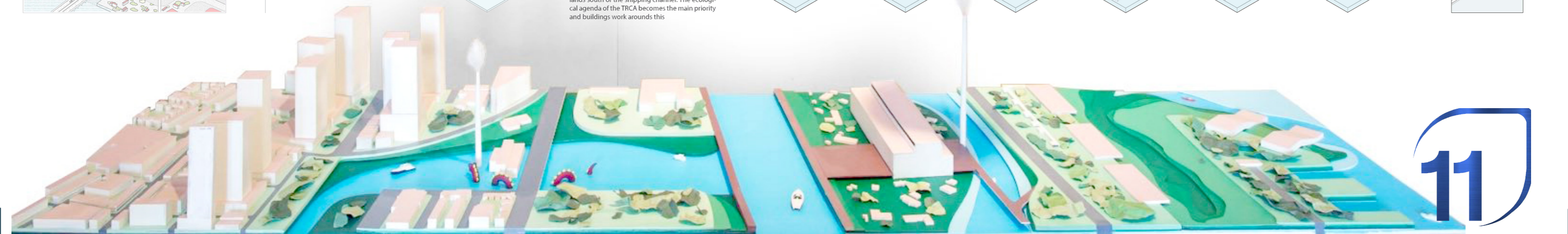
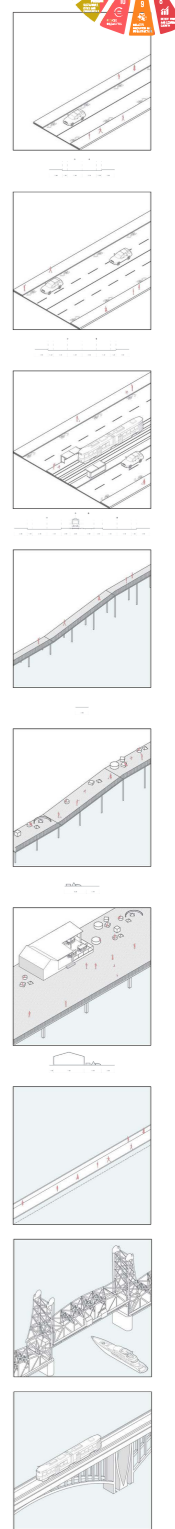
Cottages: Building on stilts
Buildings are lifted on stilts near the marshier wetlands south of the shipping channel. The ecological agenda of the TRCA becomes the main priority and buildings work around this

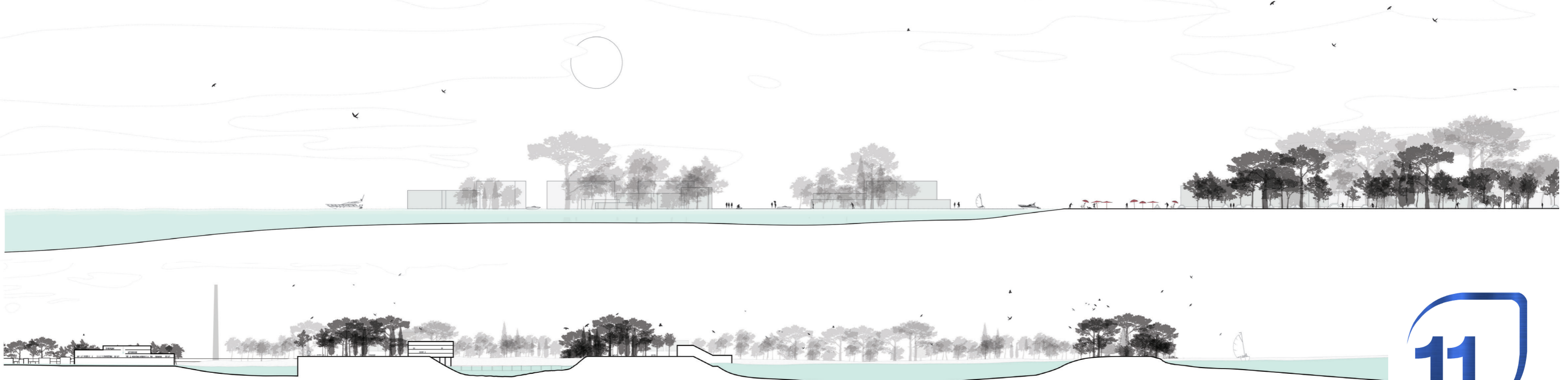
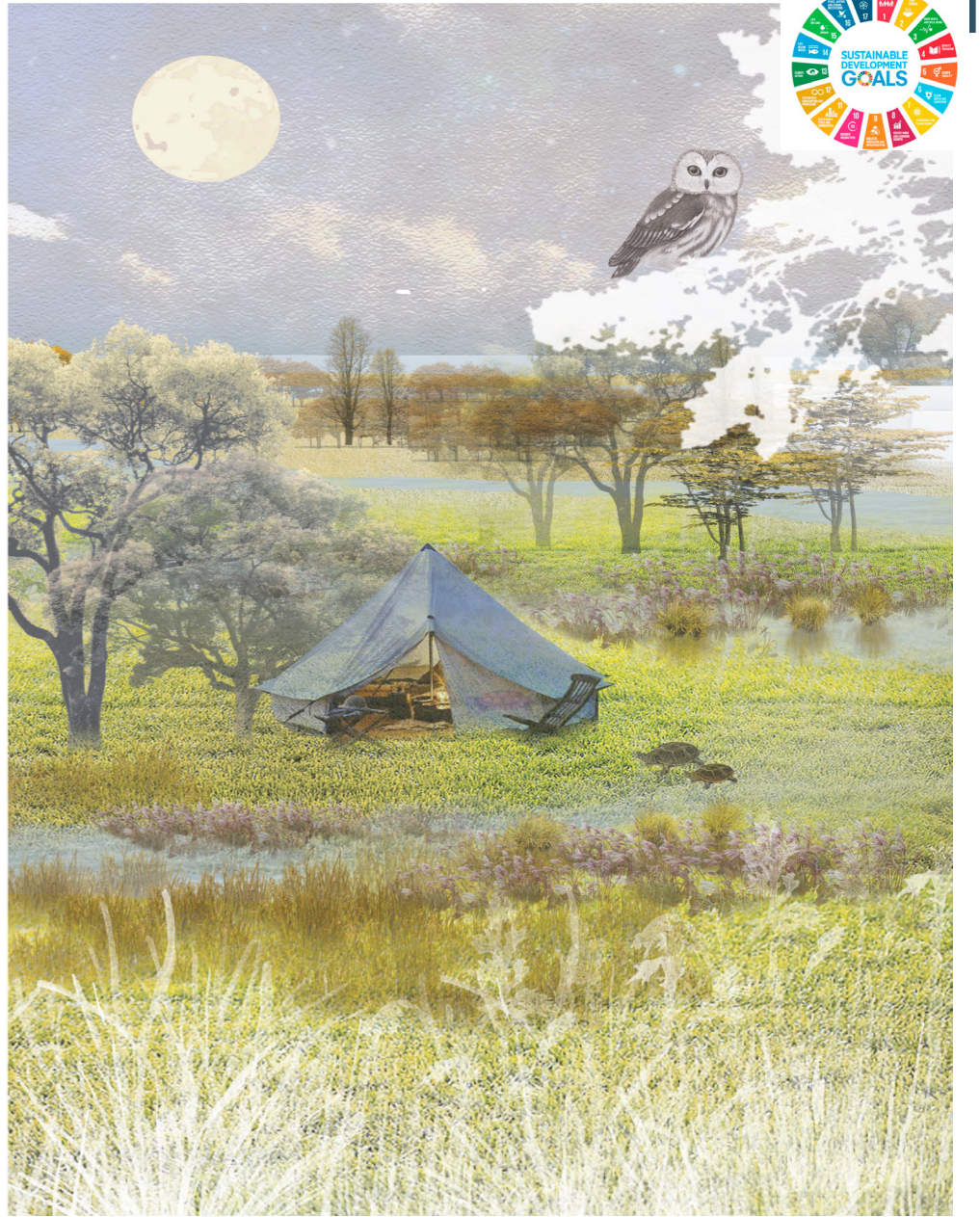
The CODE

Hard Edge | Soft Edge

	[Terrace]	[Deck]	[Water Stage]	[Stone Step]	[Slope]	[Wetland]
[Landscape]						
[Building]	[Stilts]	[Platform]	[Cantilevered]	[Submerged]	[Dock]	[Island]

[Infrastructure]





Scale: 1:1200 0 25m 50m 75m 100m

