



Rain season

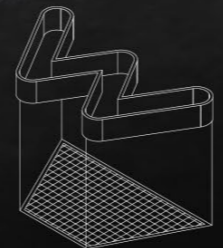
Dry season

- 1. Ecological planters
- 2. Salmon communities
- 3. Natural waterfront
- 4. Egret
- 5. Floating Island
- 6. Sooty shearwater

Purification plant selection

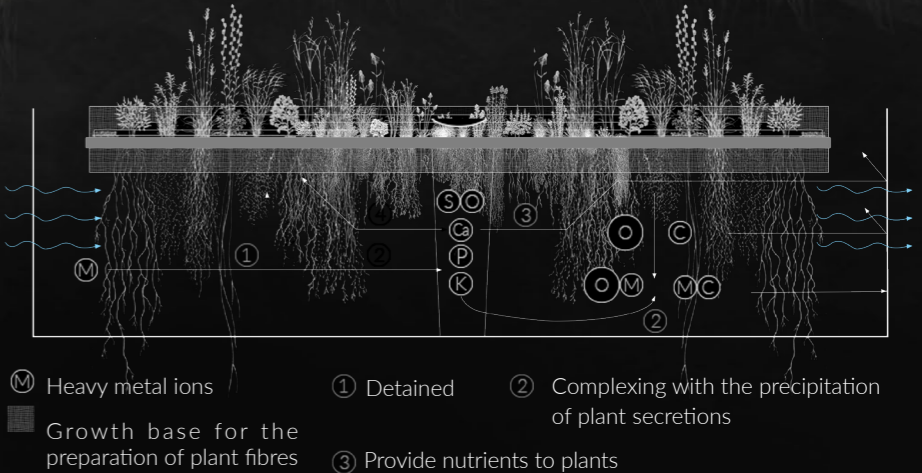


Vertical structure



Plant growth ponds for sewage treatment
Shelter nets designed for fish and other organisms

Biochemical reactions associated with plants



Country /City China/ Chengdu, Sichuan
 University / School Sichuan Agricultural University
 Academic year 2021-2022
 Title of the project Bring Salmon Back
 Authors Shengtao Shen

TECHNICAL DOSSIER

Title of the project	Bring Salmon Back
Authors	Shengtao Shen
Title of the course	Tutorial of International Landscape Design Competition
Academic year	2021-2022
Teaching Staff	Bingyang Lv
Department / Section / Program of belonging	Department of Landscape Architecture
University / School	Sichuan Agricultural University



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

The Thames used to be one of the migratory areas for salmon. After the pollution of the industrial revolution, the salmon left the Thames forever. Today, the water quality of the Thames is gradually improving, but the salmon have never returned. My design hopes to reshape the topography along the Thames, buffering tidal energy through topography while regulating water velocity and improving the water environment to bring the salmon back to the Thames. At the same time, the topography shapes the landscape as a response to climate change, with the Thames as a tidal river at risk of inundation along its banks. The proposal helps to mitigate the effects of tides while creating a new flooded landscape.

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For further information

Máster d'Arquitectura del Paisatge - UPC

Contact via email at:
 master.paisatge.comunicacio@gmail.com
 biennal.paisatge@upc.edu

Máster d'Arquitectura del Paisatge - UPC

Sede ETSAB - Universitat Politècnica de Catalunya
 Calle Jordi Girona, 15. Edificio Omega 1-3
 08034 Barcelona - Spain

COAC - Colegi oficial d'Arquitectes de Catalunya
 Carrer Arcs, 1-3
 08002 Barcelona - Spain

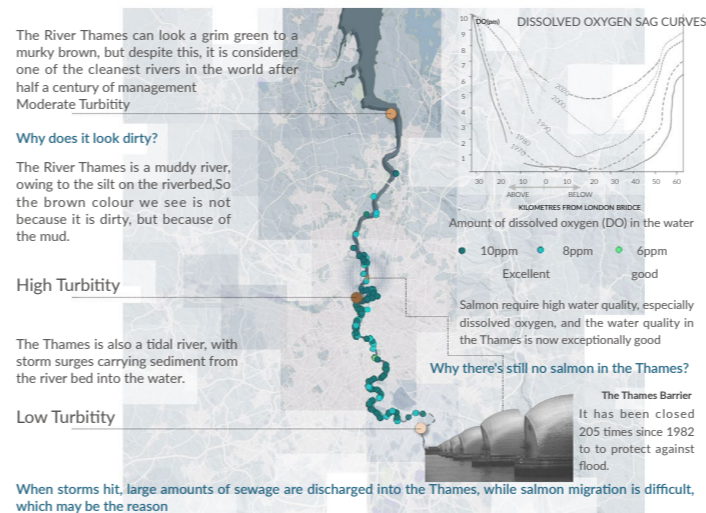
12th International Biennial Landscape Barcelona

Barcelona October 2023

SCHOOL PRIZE



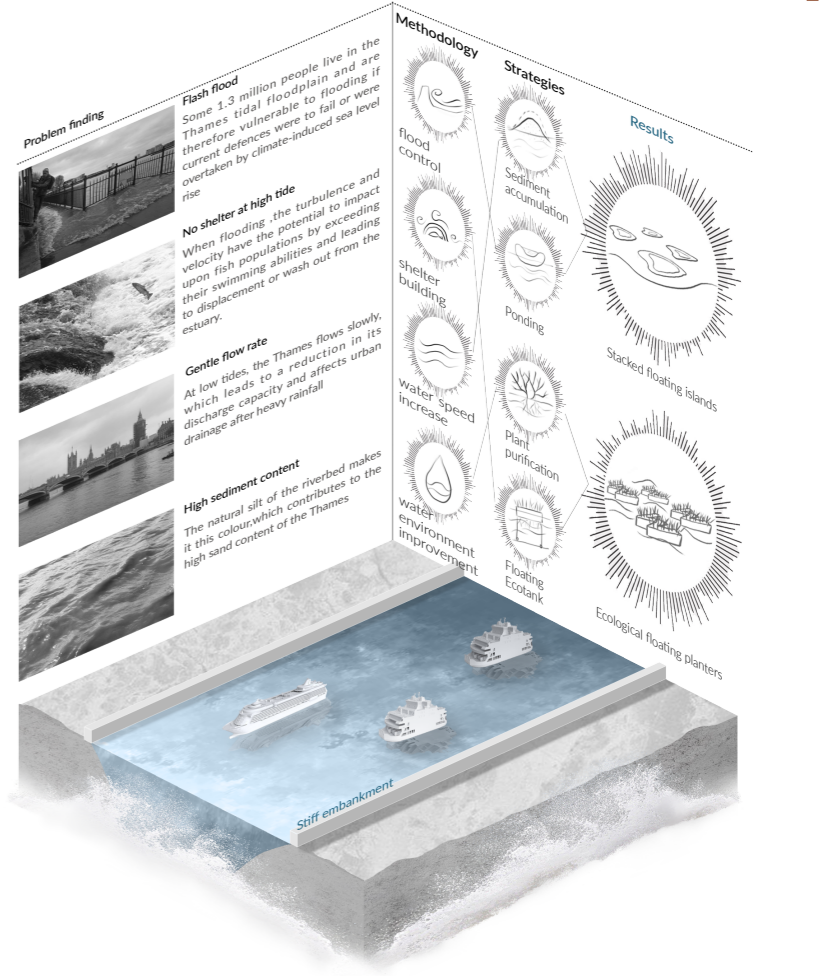
MAPPING OF STATUS OF THE THAMES



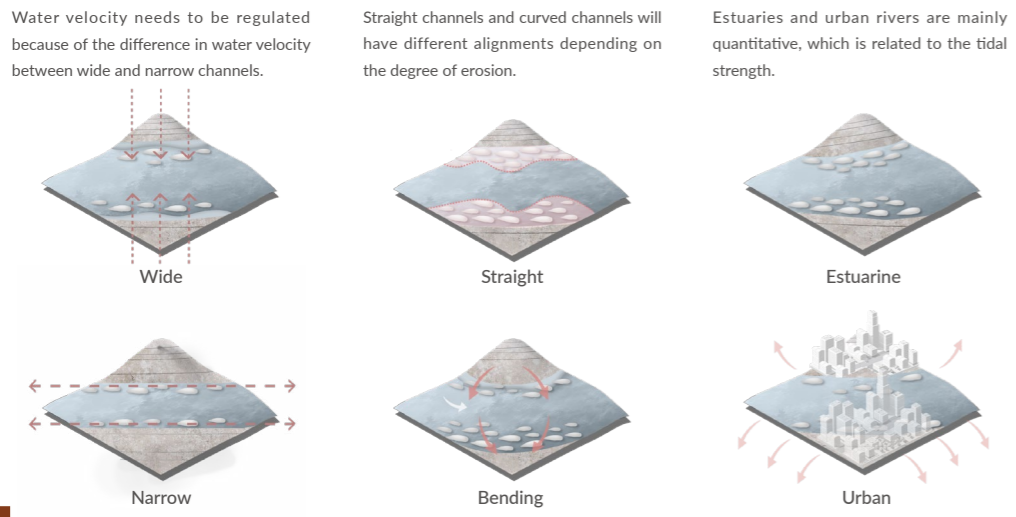
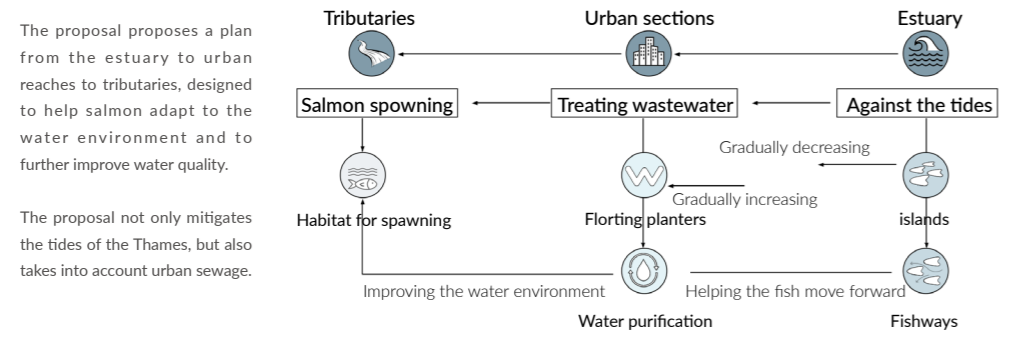
DESIGN INSPIRATION



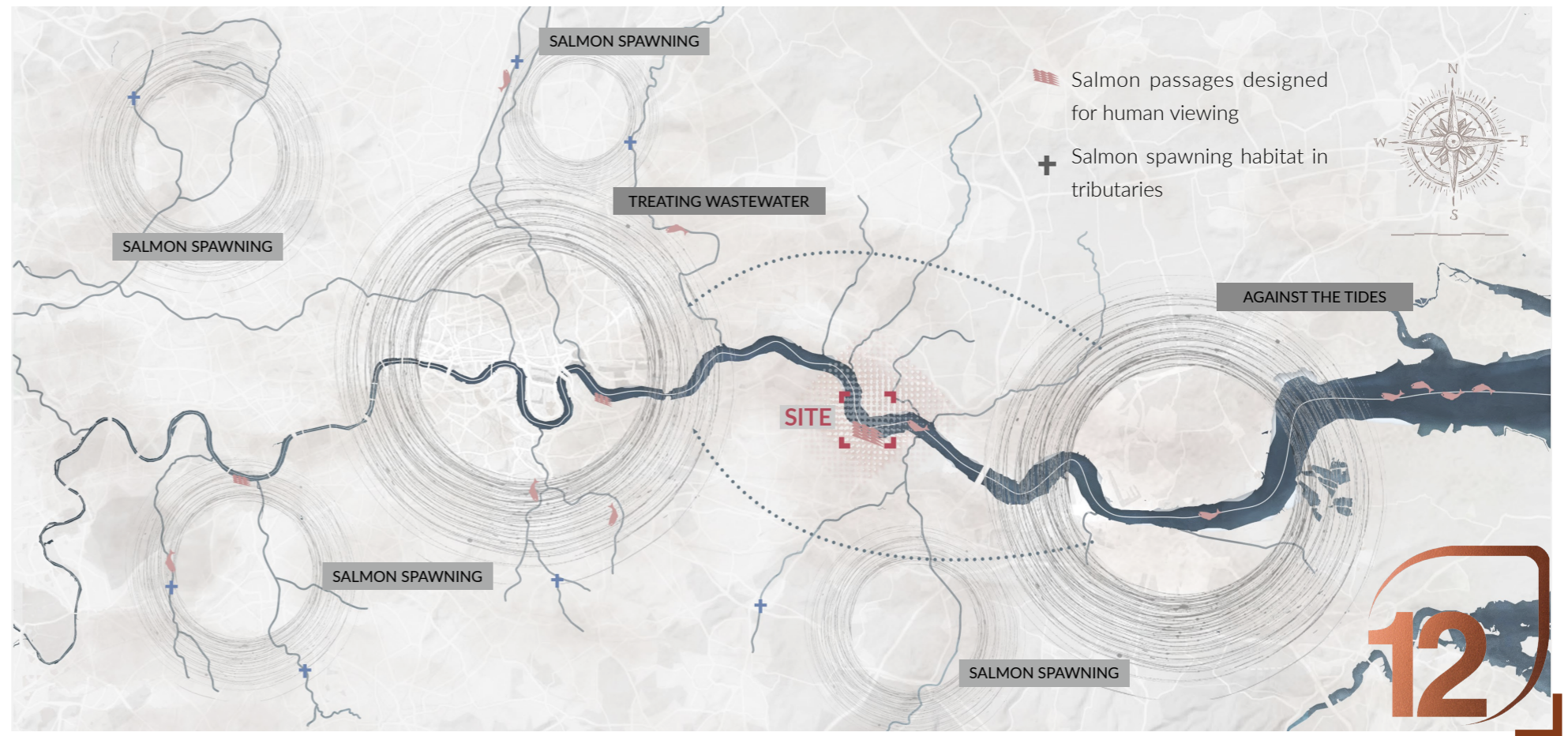
PROBLEMS & DESIGN STRATEGIES FOR SALMON HABITAT



PROPOSALS & STRATEGIES

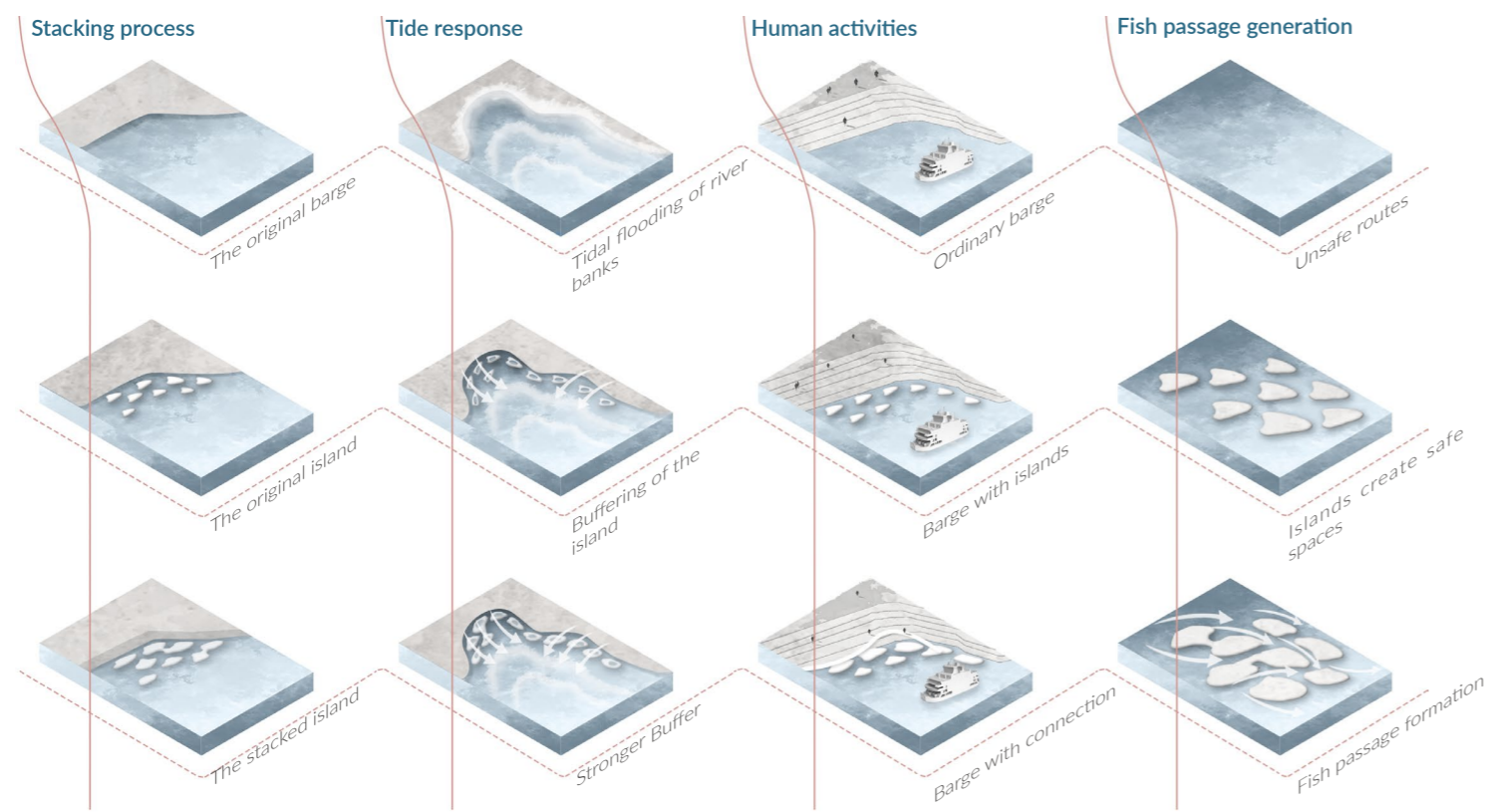
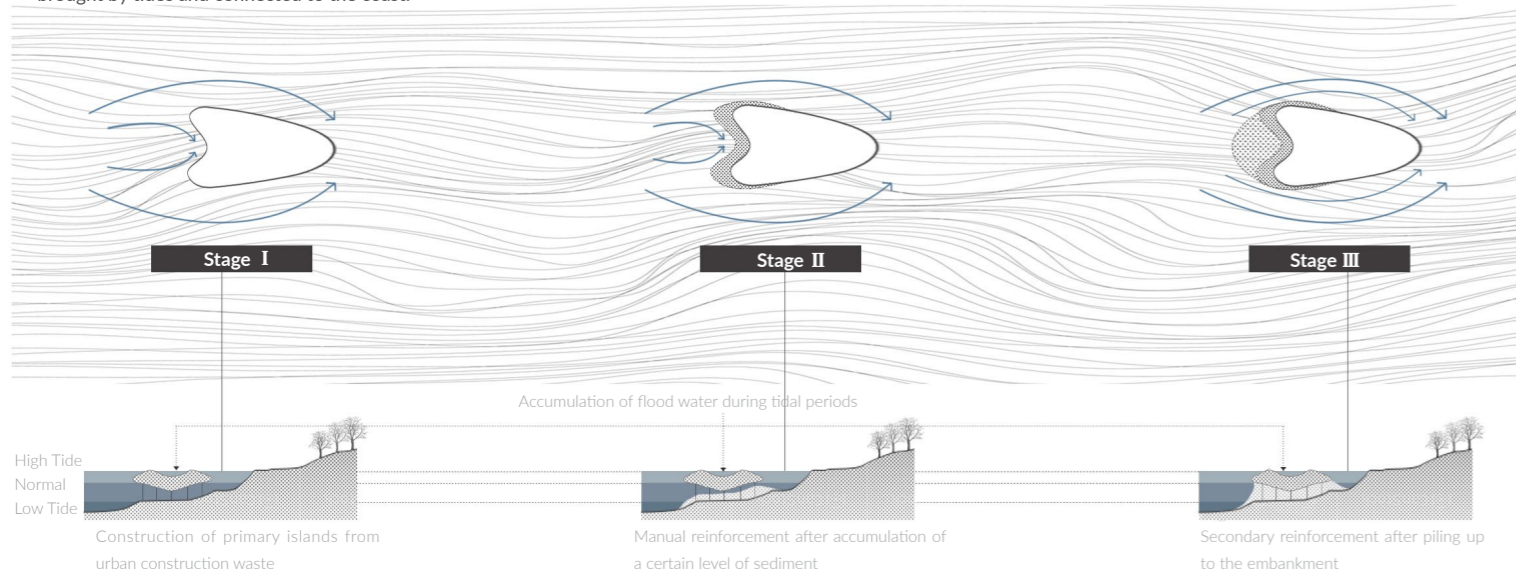


PLANNING MASTERPLAN

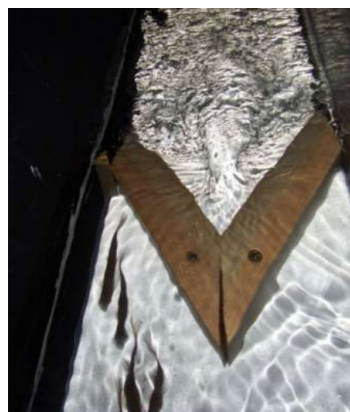


SEDIMENT PROCESS & DESIGN CONCEPT

Floating islands in the water change their shape over time because they are filled with sediment brought by tides and connected to the coast.

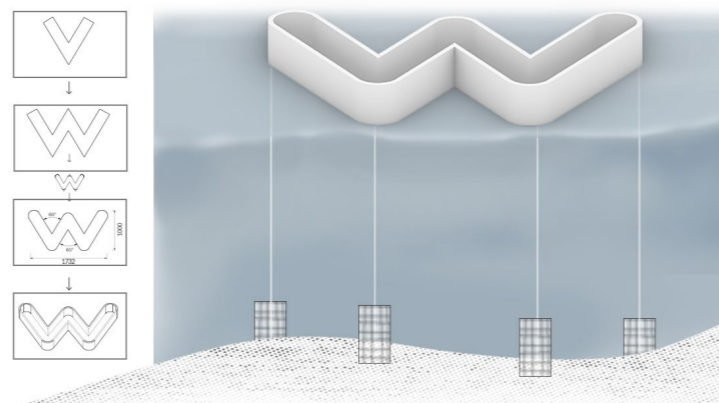


ECO-PLANTER MORPHOGENESIS

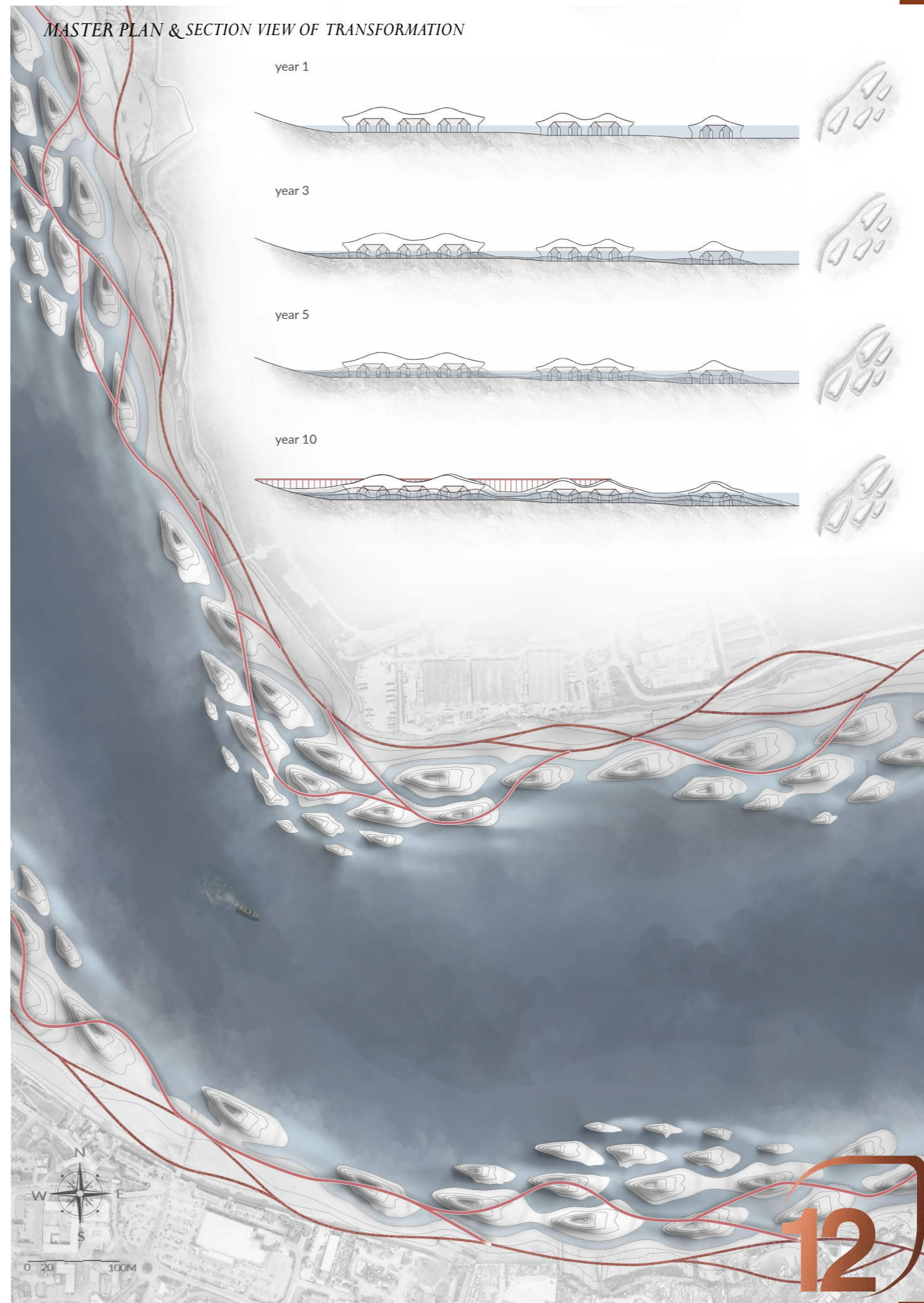


Through physical experimental simulations, a "V" shaped structure was designed to create calm areas in turbulent currents.

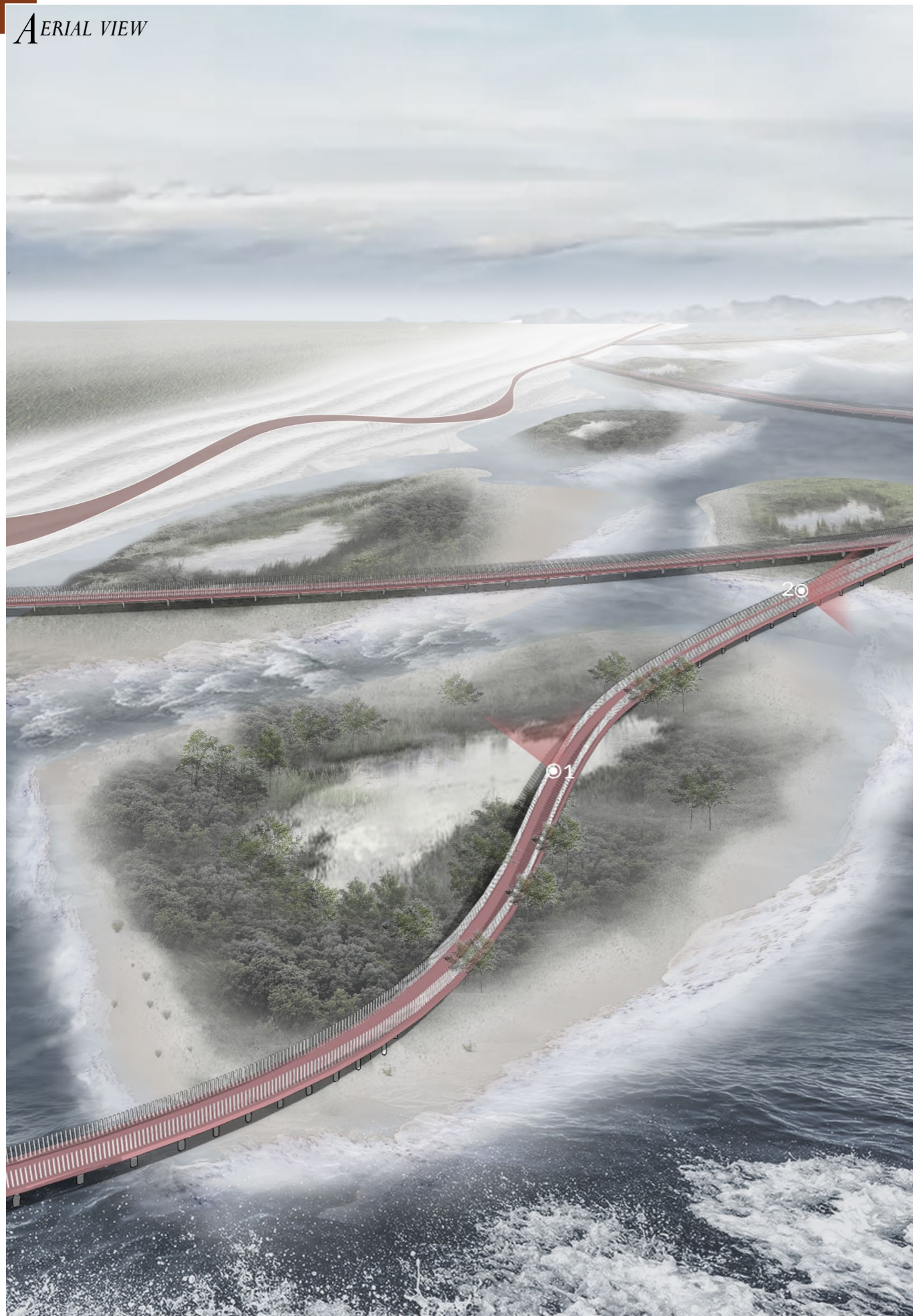
Based on this structure I designed a prototype planting tank that could effectively create a shelter for salmon or other organisms during spawning periods or storm surges.



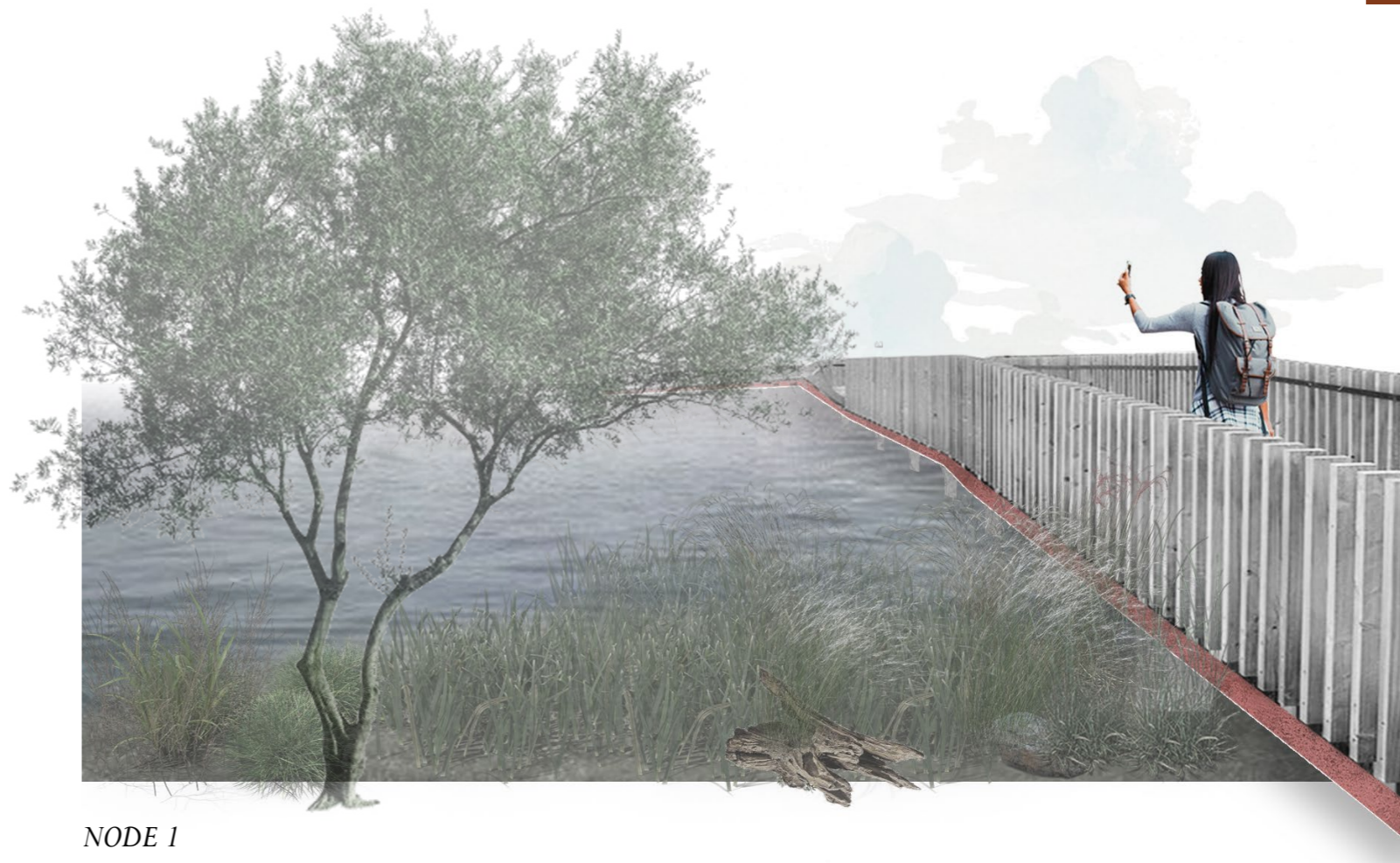
MASTER PLAN & SECTION VIEW OF TRANSFORMATION



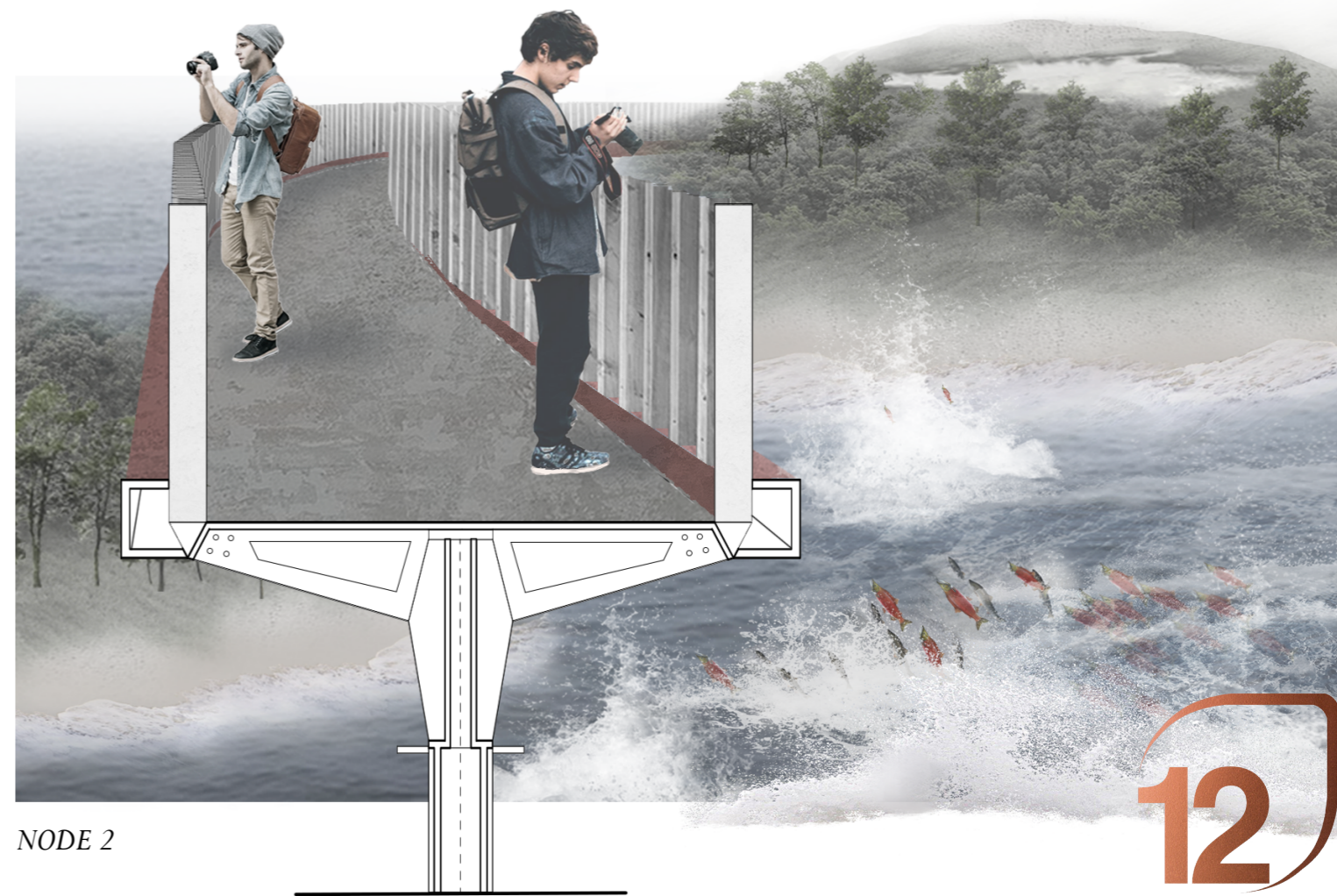
AERIAL VIEW



The bridges connect the islands and people watch the salmon return to the Thames during the salmon run season.



NODE 1



NODE 2