

Senegalese adapt to city above old flooded one, living on interconnected watercraft in shield formation while still preserving traditional culture.



N'DAR IANA

2023 JACQUES ROUGERIE FOUNDATION AWARDS

Award's category : GRAND PRIX AWARD CLIMATE

Project's Name

N'dariana

Description

Perspective Time Period A Floating City

Senegalese adapt to city above old flooded one, living on interconnected watercraft in shield formation while still preserving traditional culture.



2023 JACQUES ROUGERIE FOUNDATION AWARDS

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Project's Name

N'dariana

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Perspective Time Period B Plug-In City

Senegalese adapt to city above old flooded one, living on interconnected watercraft in shield formation while still preserving traditional culture.



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2023 JACQUES ROUGERIE FOUNDATION AWARDS

Award's category : GRAND PRIX AWARD CLIMATE

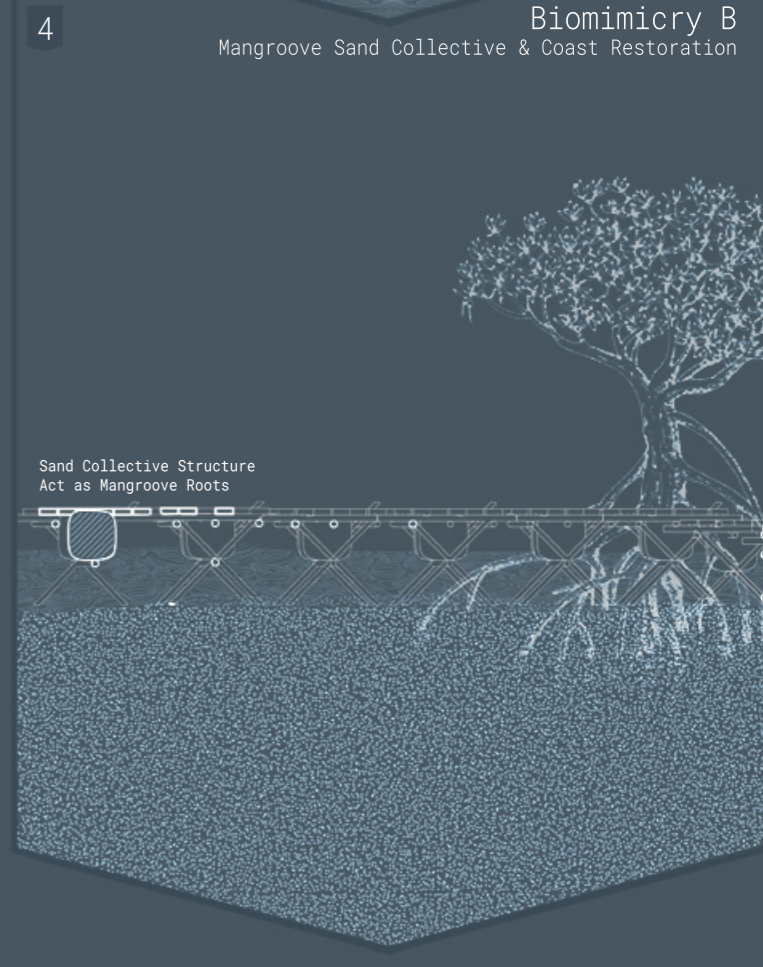
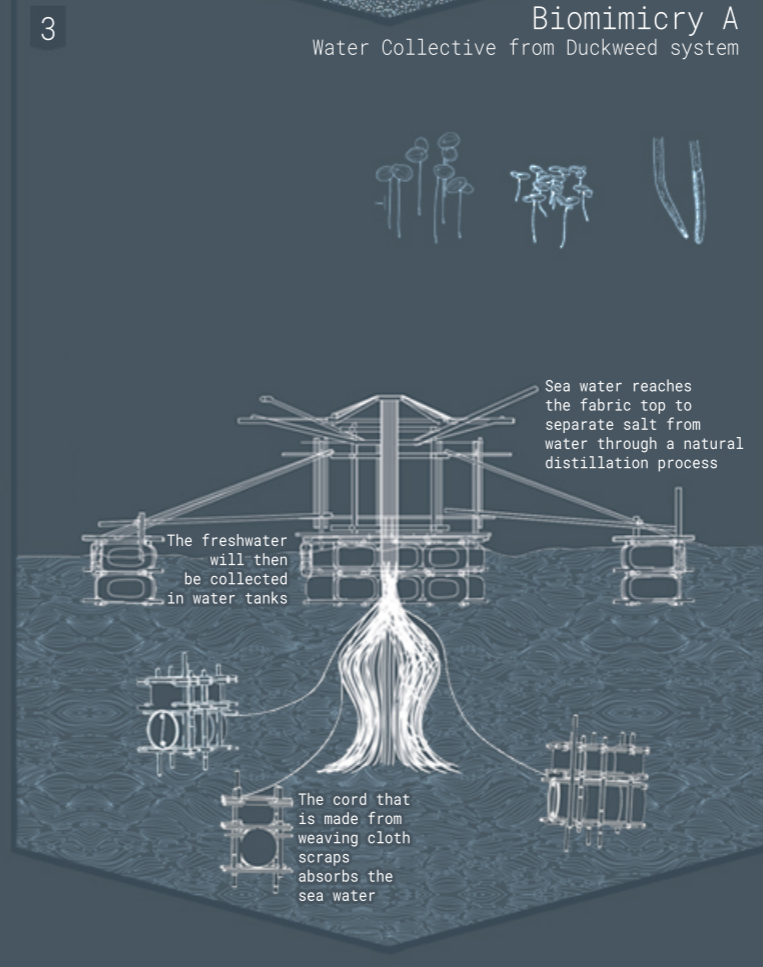
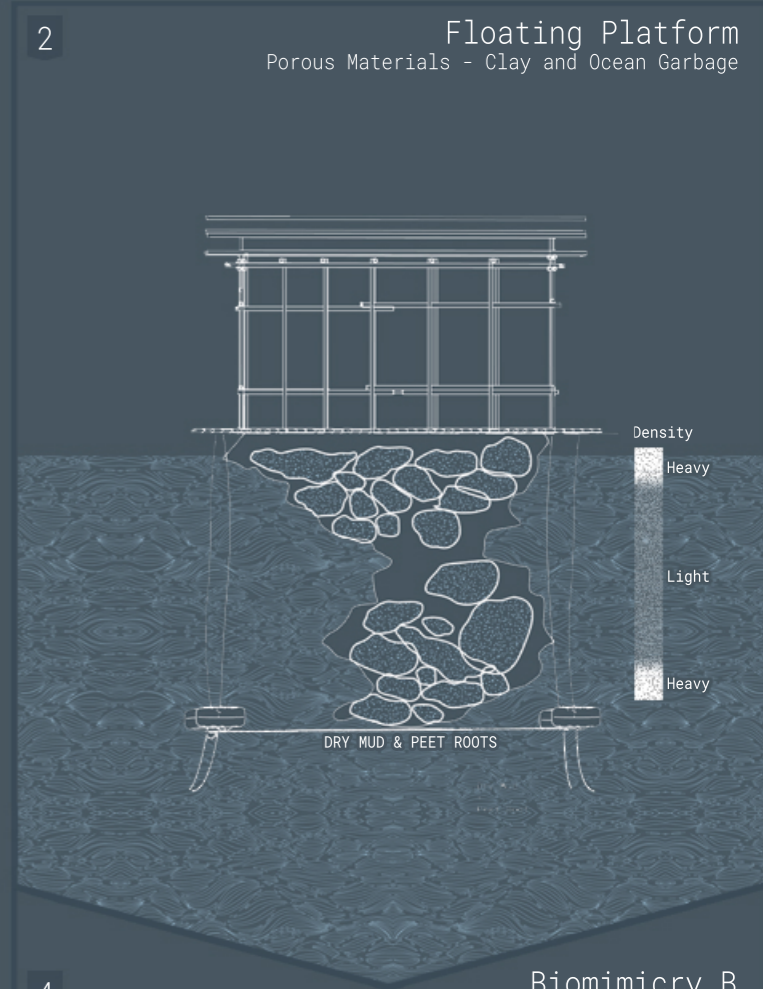
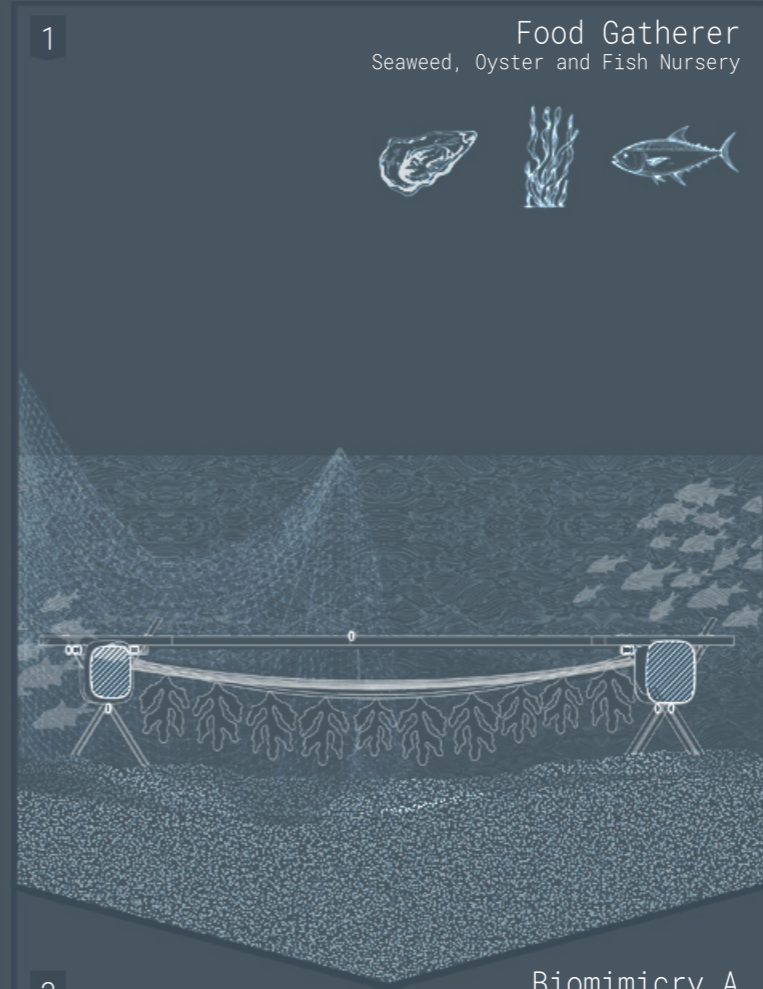
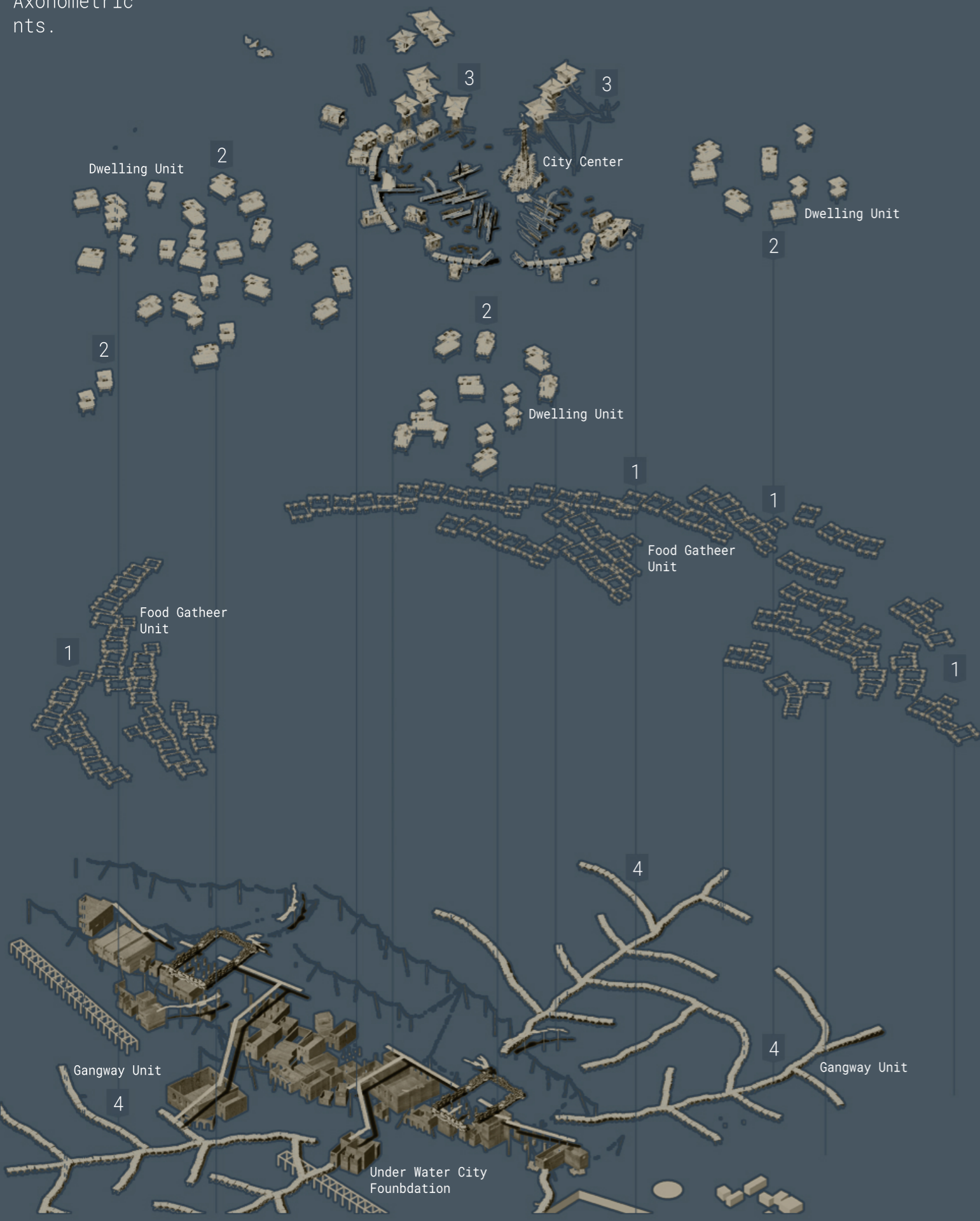
Project's Name

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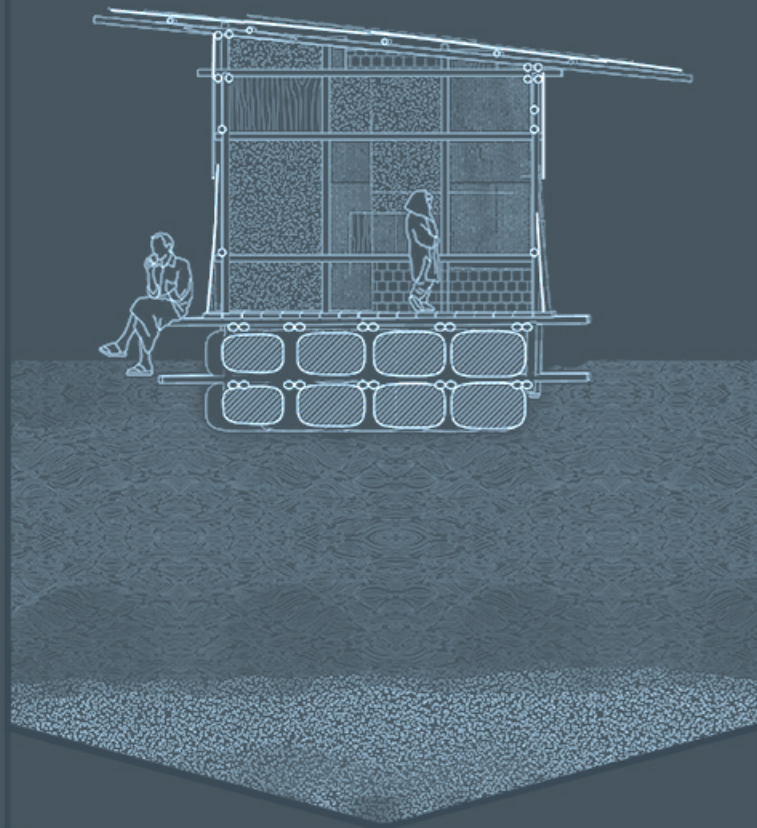
Description

Perspective Time Period C Protection City

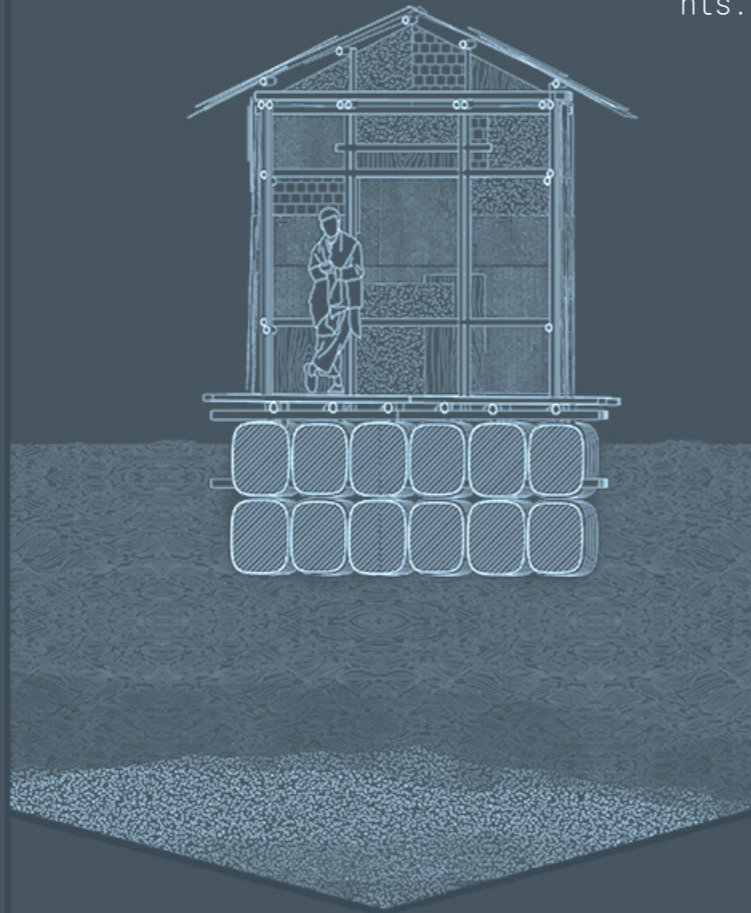
Axonometric
nts.



Dwelling Unit A Section
nts.



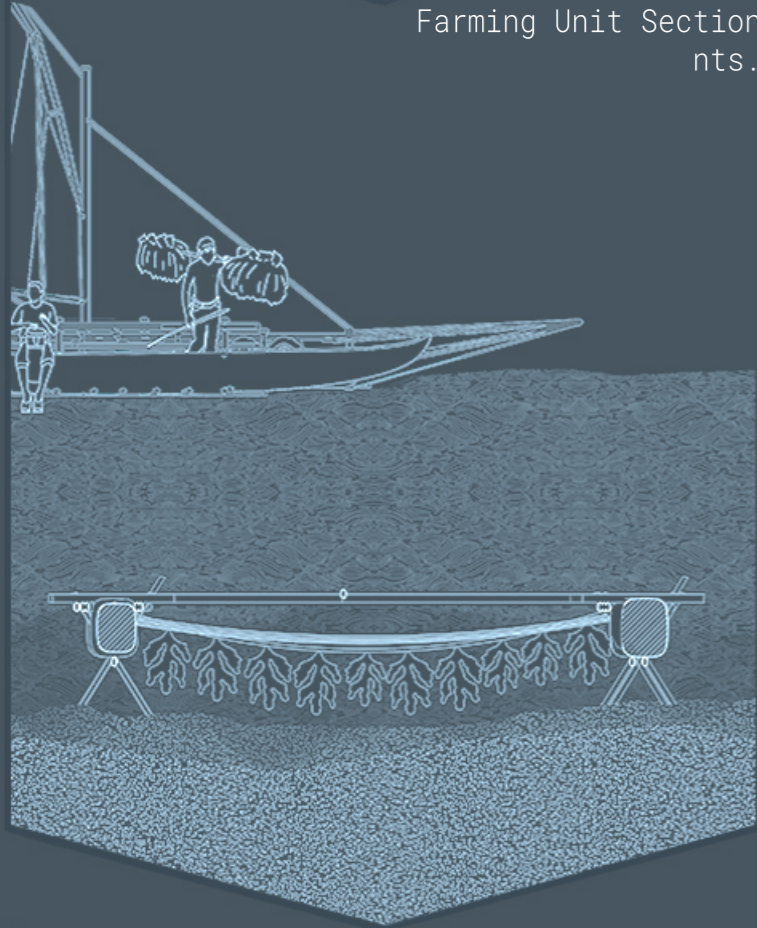
Dwelling Unit B Section
nts.



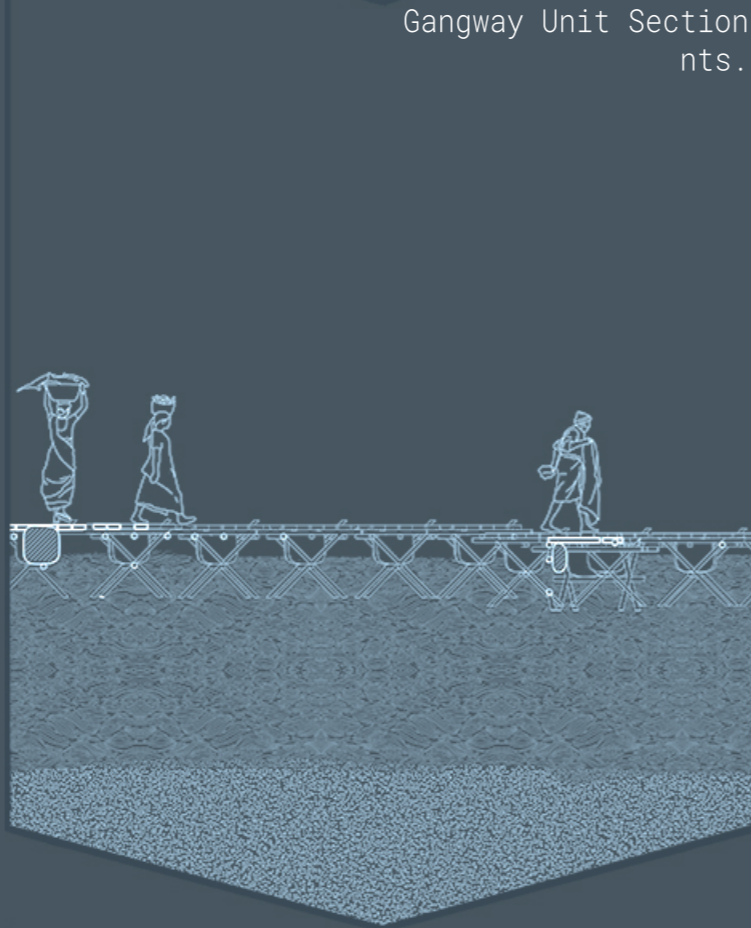
Tower Unit Section
nts.



Farming Unit Section
nts.



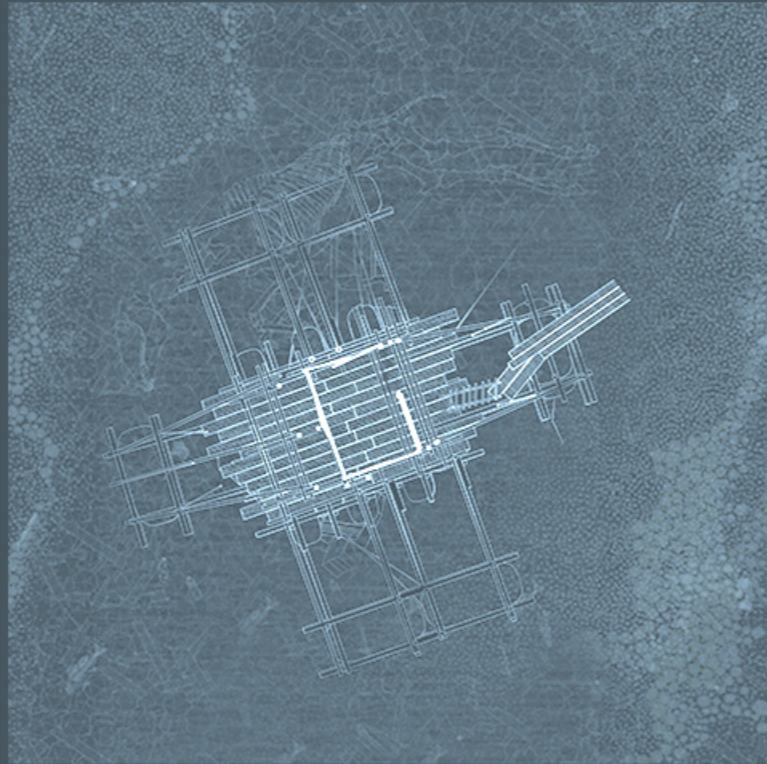
Gangway Unit Section
nts.





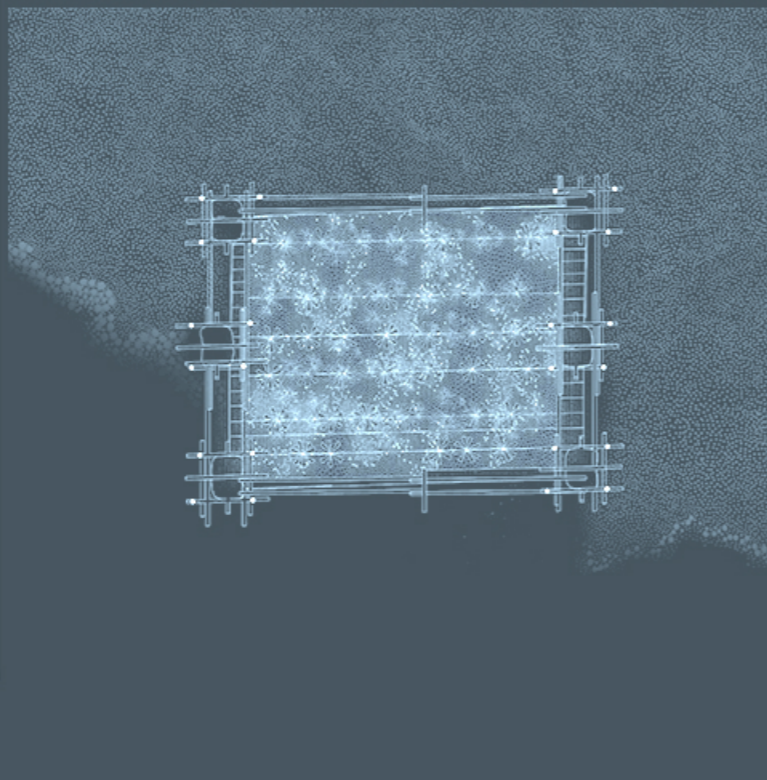
Tower Unit
 Religios Center & City Core
 Way-Finding Vertical Tower
 Functional Lighthouse

plan nts.



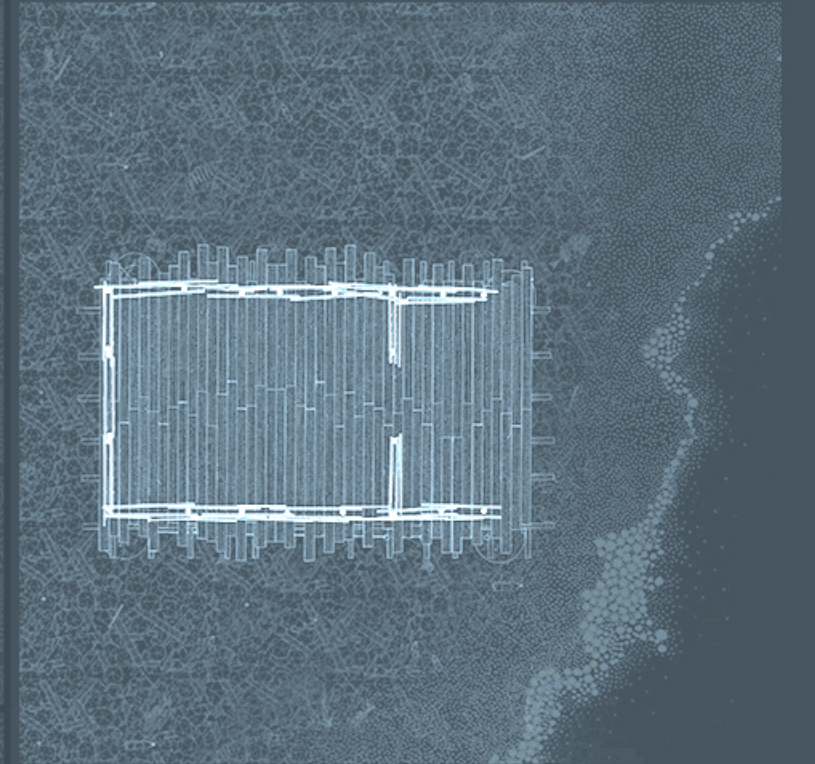
Farming Unit
 Food Collecting
 Seaweed Farm
 Fish Nursery
 Oyster Farm

plan nts.



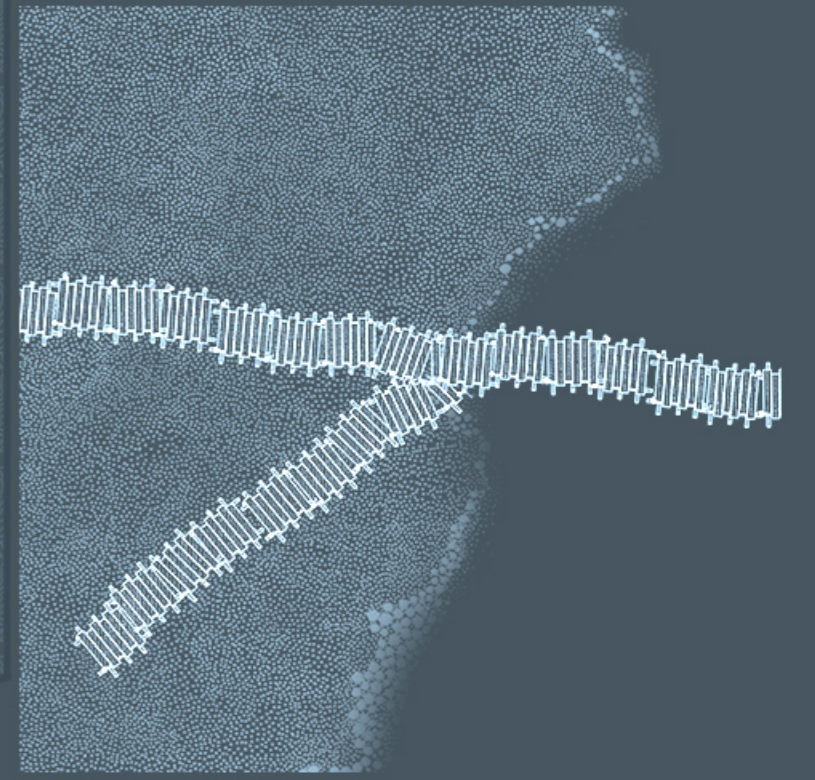
Dwelling Unit
 House Unit
 Water Collecting
 Storage

plan nts.



Gangway Unit
 Circulation Platform
 Sand Cultervate
 Coastal Protection

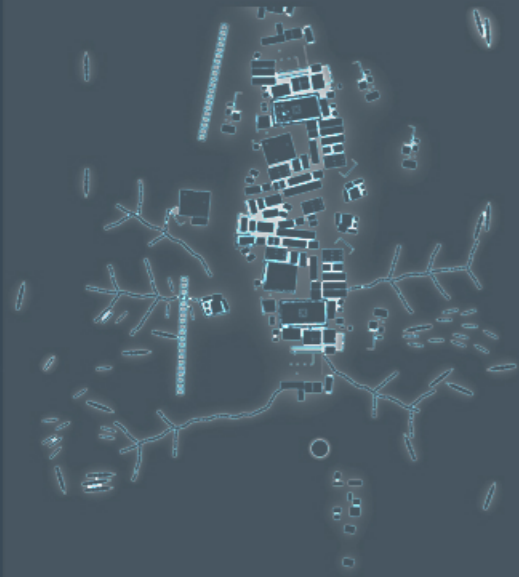
plan nts.





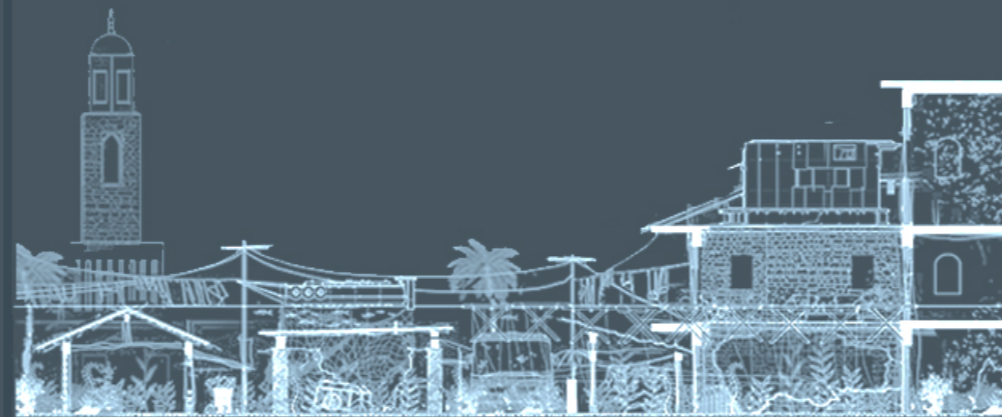
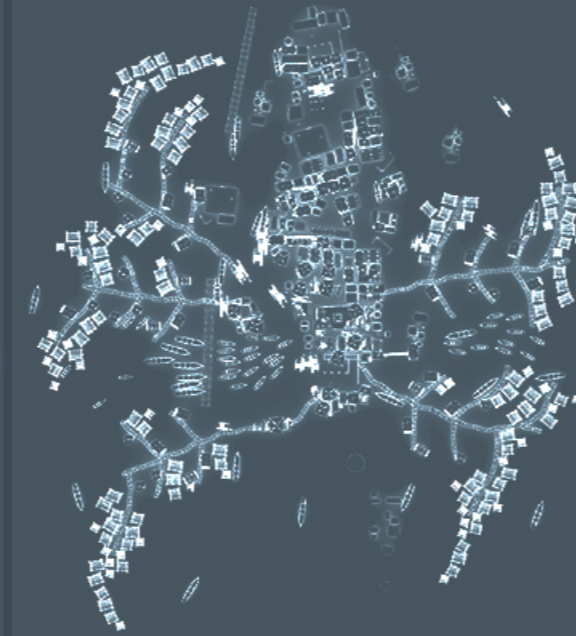
Period A
Ocean Rising Preparation State

New Structure start to form around coastal area for protect coastal area from erotion and prepare for future ocean rising



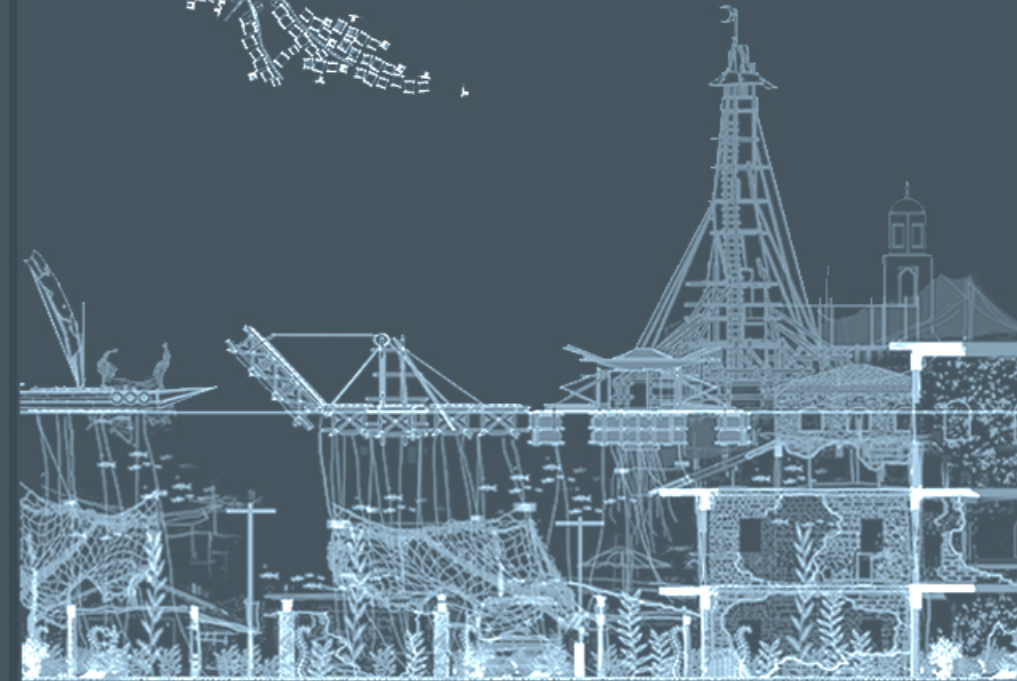
Time Period B
Start of City Flood by Ocean

Newly Built structure from scavenging material are built into new plug-in system.

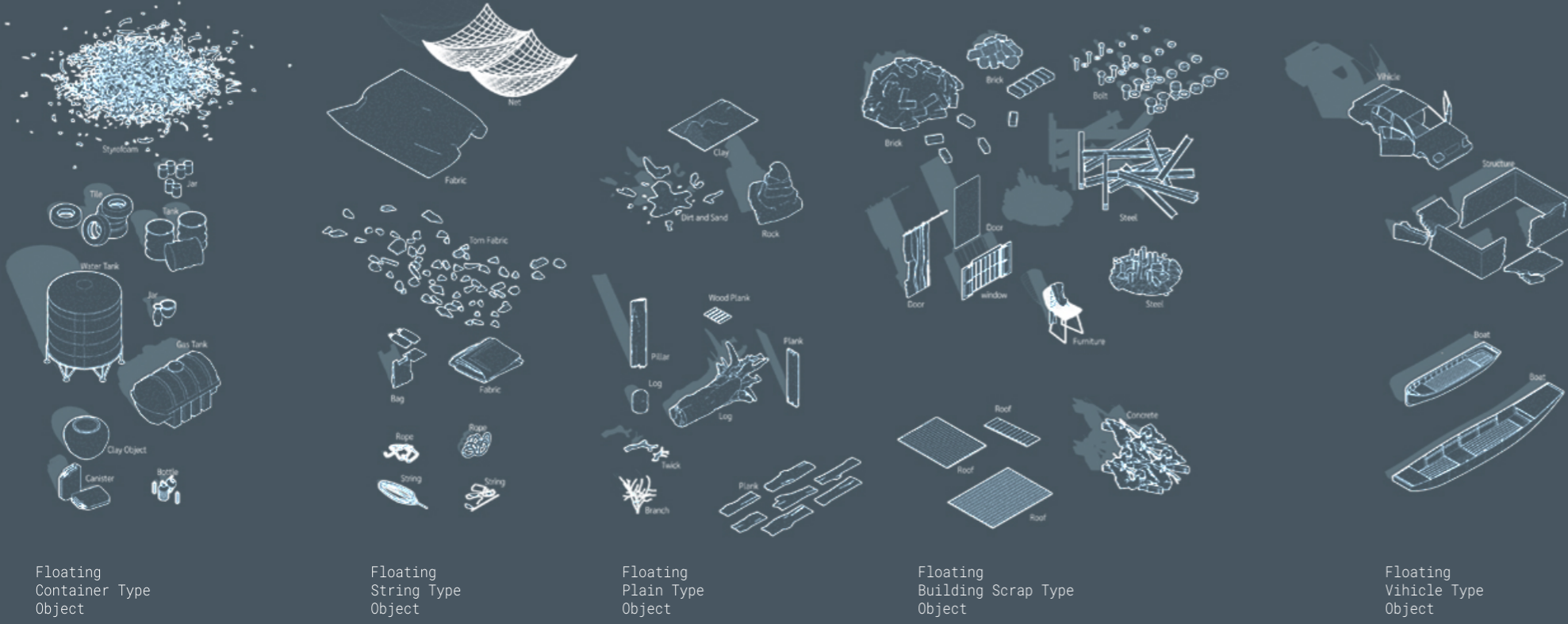


Time Period C
Floating city from Ocean Rising

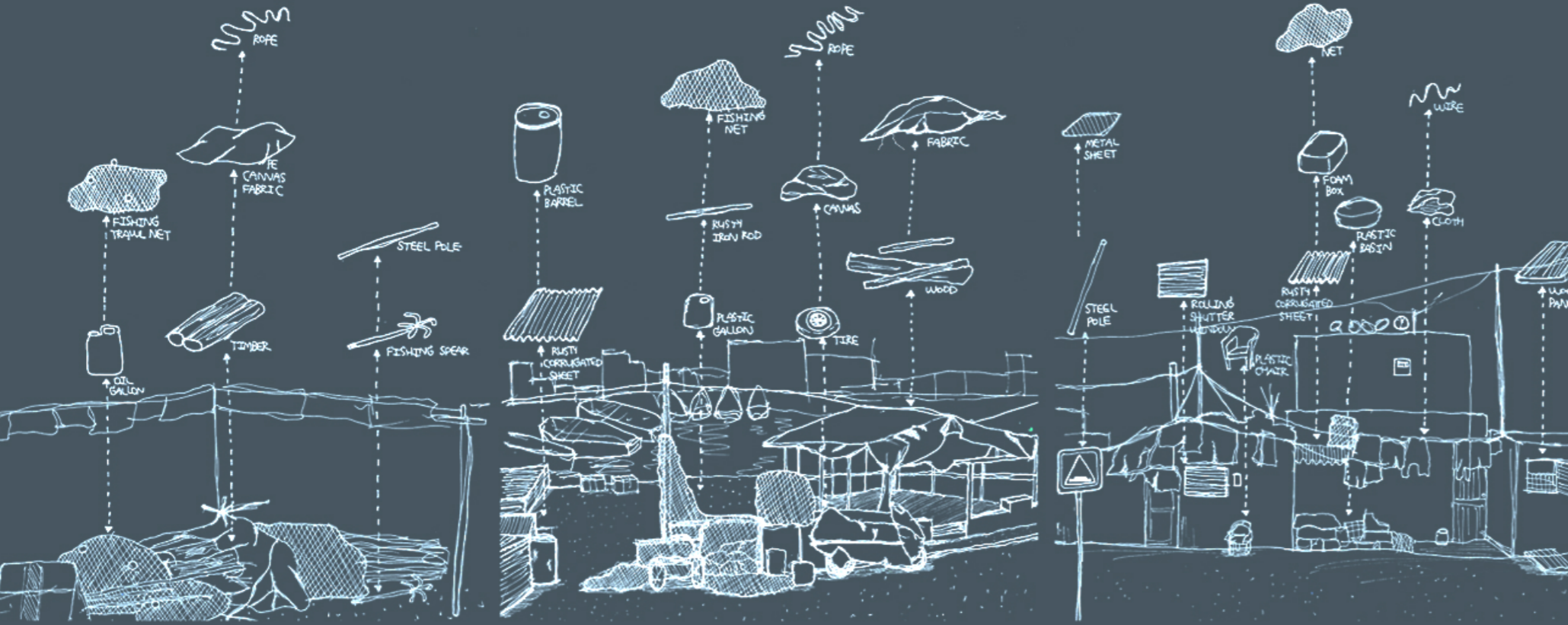
New Structure are floating above existing city and forming into new city



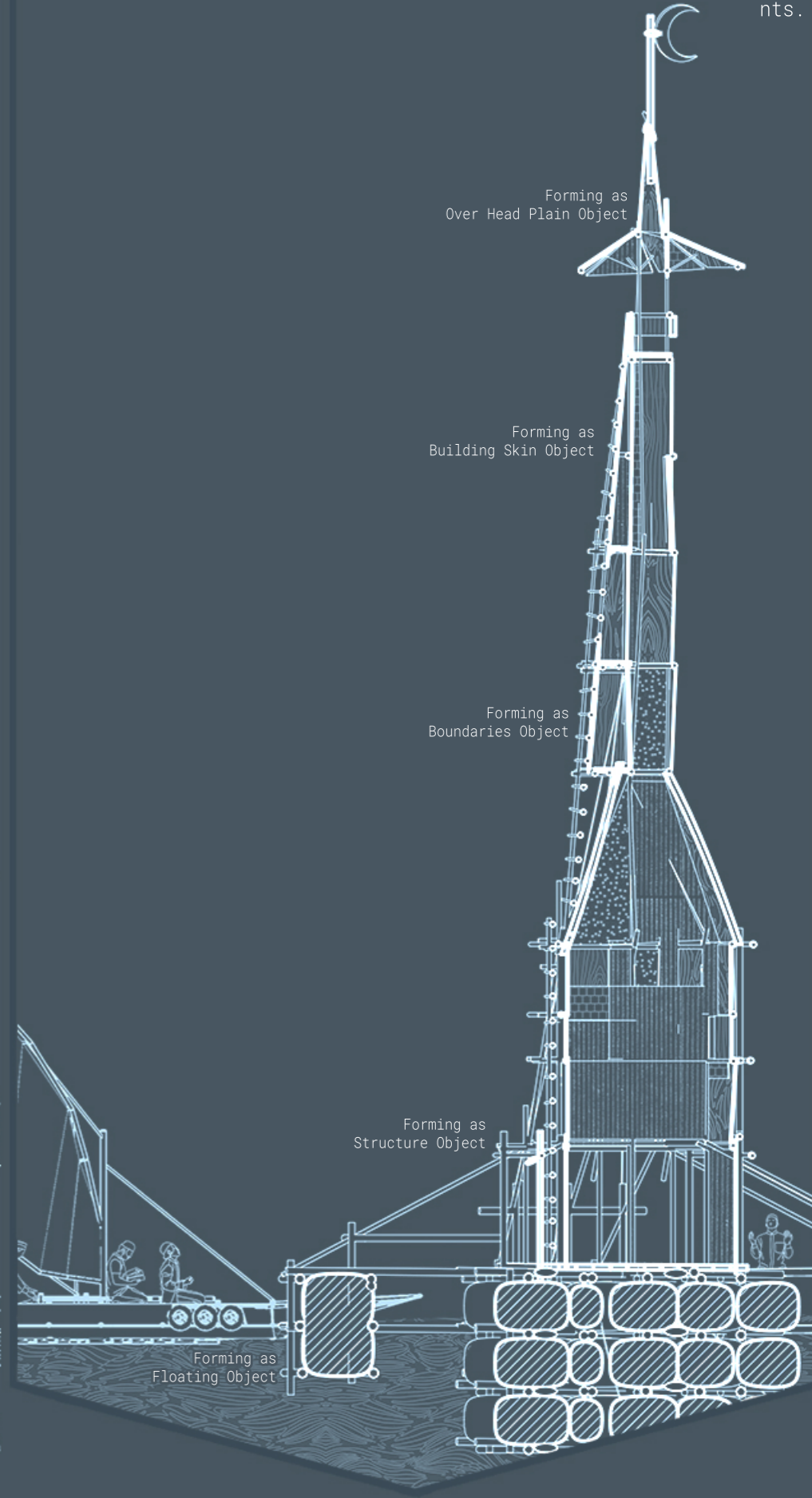
Catalog of Floating Object
nts.



City by
Component
Diagram



Architecture Forming Techtonics Diagram
nts.



Case A : Titora Reed Floating Island



Reed Hut



Reed Layer Preparing



Dry Mud



Life on Floating Island



Agriculture



Reed Boats

Case B : Maltais-Savard Ears System



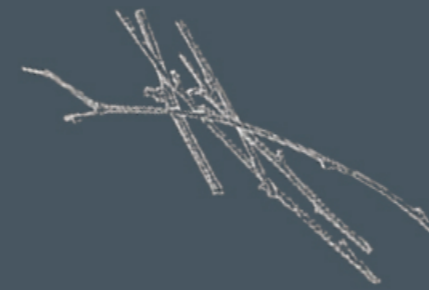
Construction on Site



Wood Cutting Process in Senegal



Acadja Landscape



Twigs

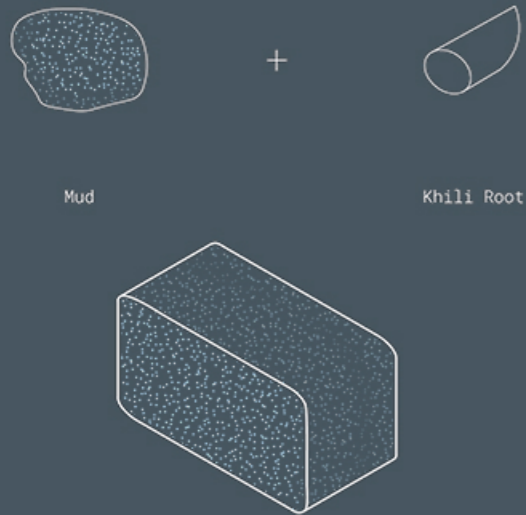


Case Study

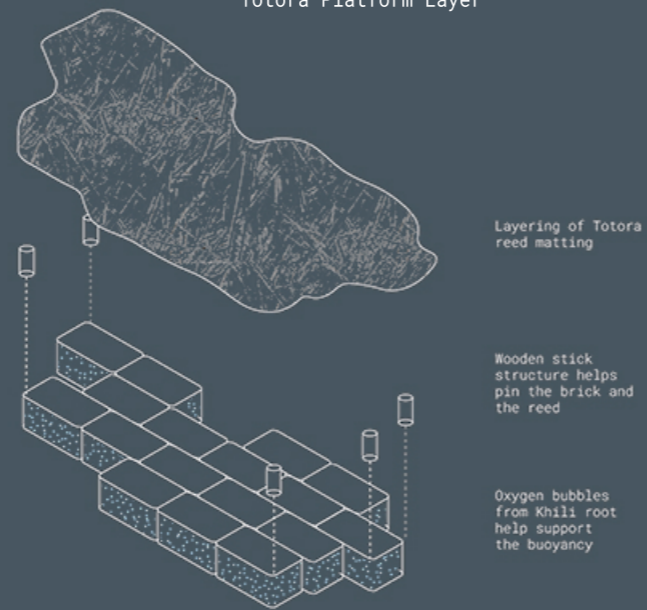


Case Study

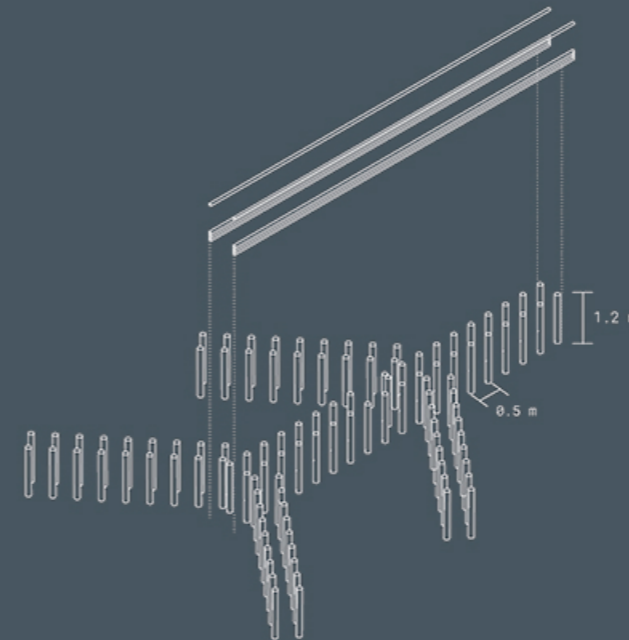
Titora Brick Module



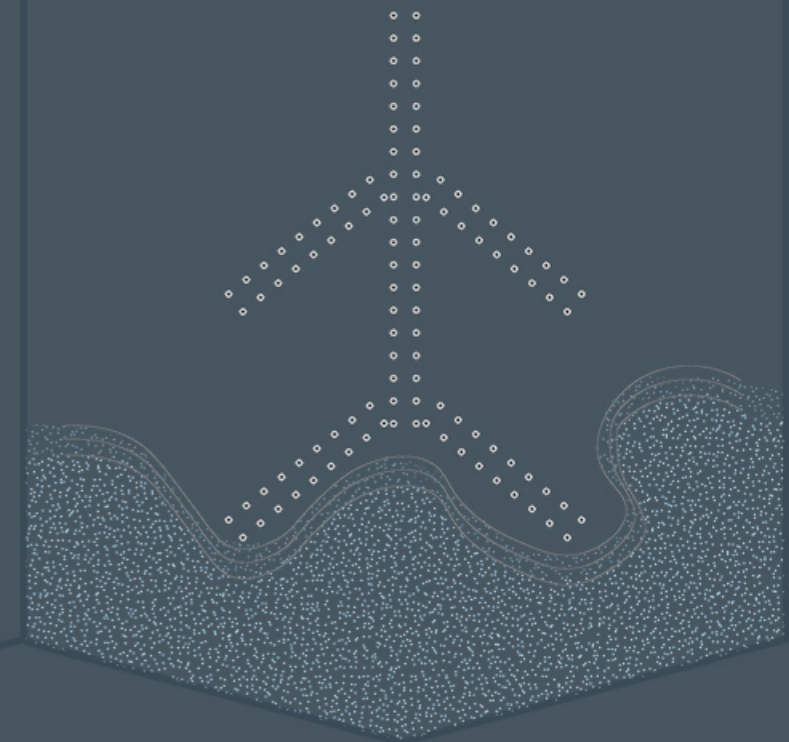
Titora Platform Layer



Maltais-Savard Ears System Isometric



Maltais-Savard Ears System Plan



Saint-Louis, Senegal - Site et point d'intérêt

Personnes&Culture



Ville&Architecture



Environnement&Naturel



Religion&Belief



Modus Vivendi&Way of Water



Local Material



Coastal Erode



Inner City Flood



Far Future Ocean Rising

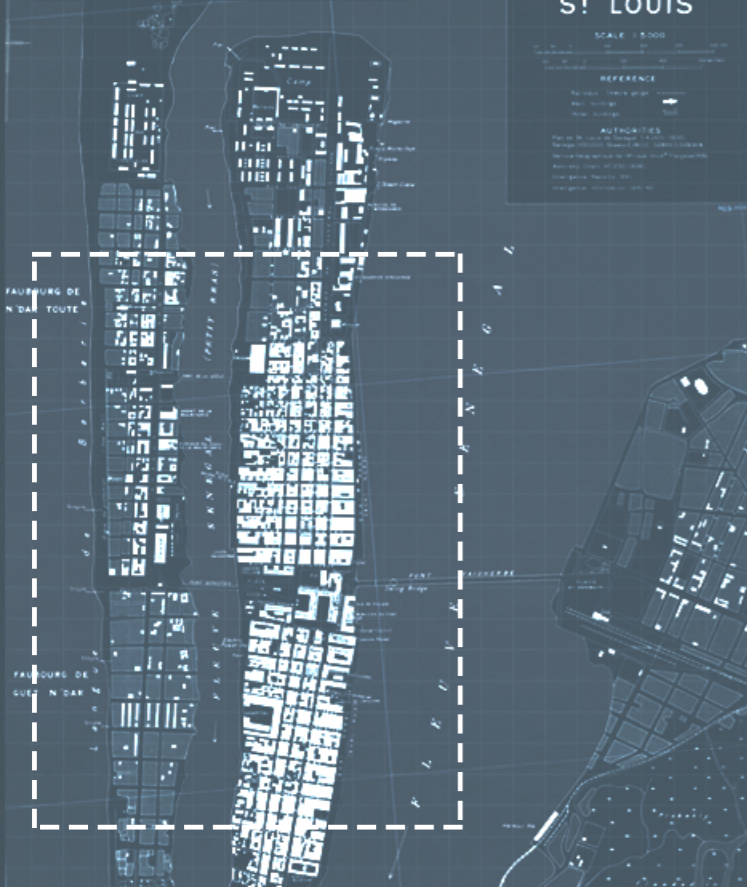


Érosion côtière

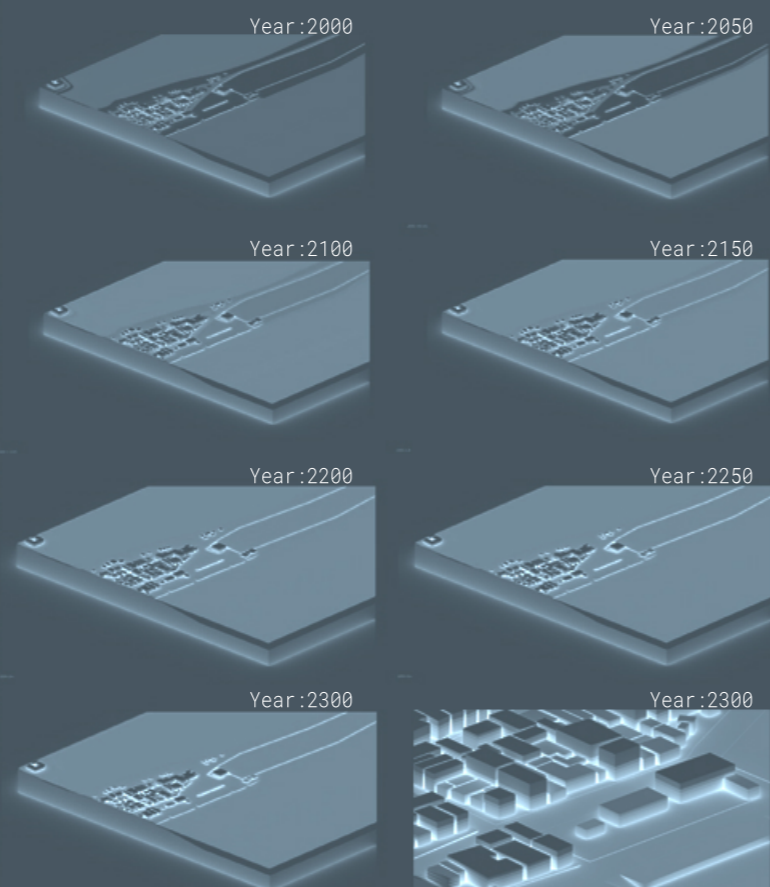
Inondation du centre-ville

La montée des océans dans un futur lointain

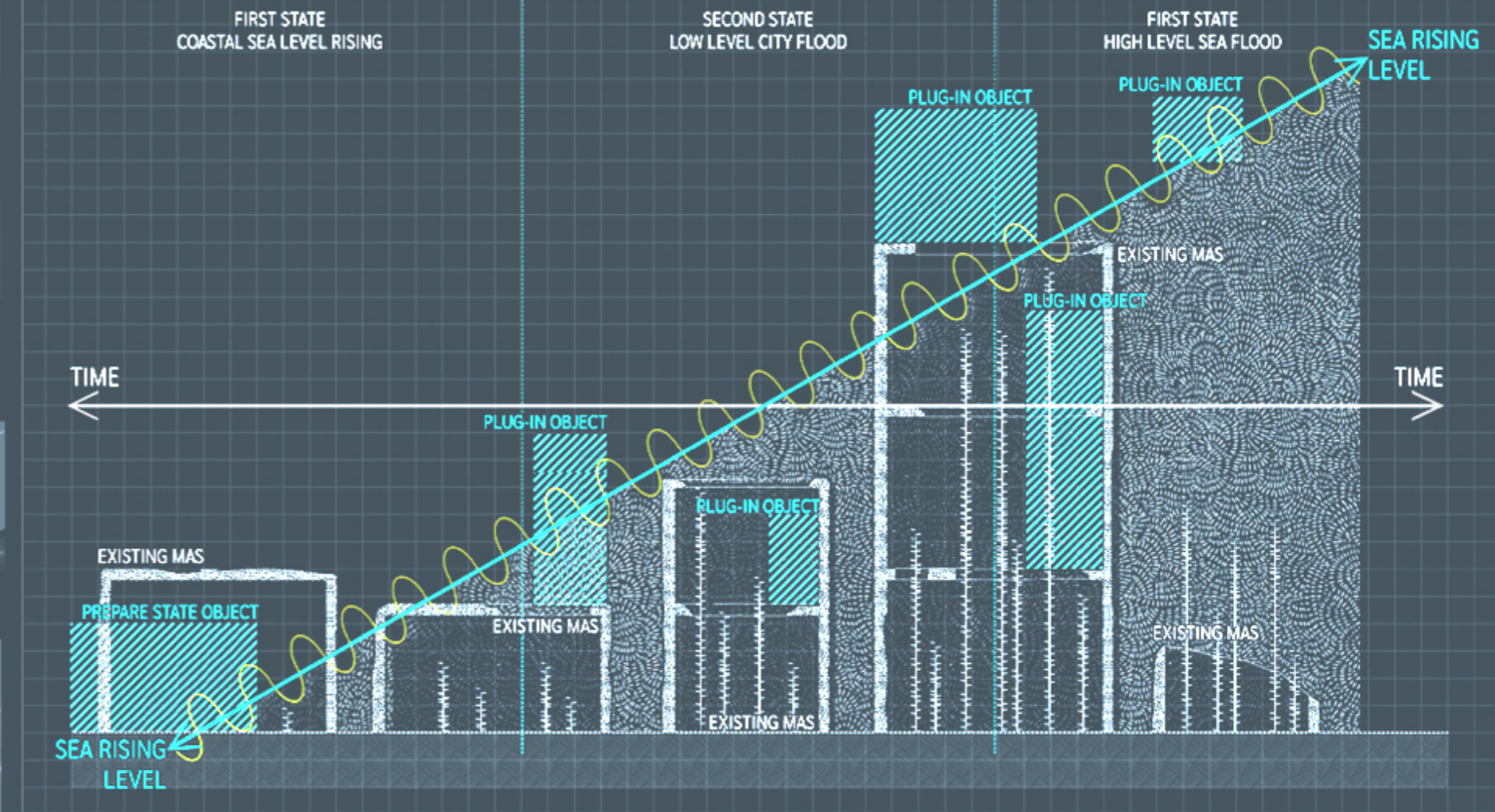
L'emplacement du site



Estimation de la hausse des océans par section de ville



Relation du graphique Ocean Rising avec l'architecture existante



Book

Julia Watson: Lo-Tek; Design by Radical Indigenism (2020)
 Johan van Lengen: The Barefoot Architect (2007)
 Michael Ezban: Aquaculture Landscapes Fish Farms and the Public Realm (2021)
 THE ARCTIC-KADK, Architecture and Extreme Environments (2015)
 Philipp Meuser and Adil Dalbai: Sub-Saharan Africa (2020)
 Birkhäuser: Building from waste (2014)
 William Rathje, Cullen Murphy: Rubbish!: The Archaeology of Garbage Paperback (2001)
 Lisa Baker: Built on Water: Floating Architecture + Design (2014)
 Anna Badkhen: Fisherman's Blues: A West African Community at Sea (2018)
 Charles River Editors: French Senegal: The History of the French Colony and Senegal's Transition to Independence Paperback (2020)
 Galen D. Newman, Zixu Qiao: Landscape Architecture for Sea Level Rise Innovative Global Solutions (2022)
 Weston Wright: MORE WATER LESS LAND NEW ARCHITECTURE (-)
 Jeffrey Huber: Salty Urbanism: A Design Manual for Sea Level Rise Adaptation in Urban Areas (2017)
 Sir Barry Cunliffe: On the Ocean: The Mediterranean and the Atlantic from prehistory to AD 1500 (2017)
 Hilary Jones: The Métis of Senegal: Urban Life and Politics in French West Africa (2013)

Website

https://issuu.com/davidgarcia122/docs/-ka-k_aee_fin_screen_72dpi
https://issuu.com/birkhauser.ch/docs/building_from_waste
<https://vimeo.com/745555366>
<https://www.worldofinteriors.com/video/watch/visitors-book-pirogues-gallery>
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<https://www.inaturalist.org/observations>
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<https://www.wetlands.org/news/can-wetlands-save-saint-louis-from-drowningae/>
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<https://www.wetlands.org/news/can-wetlands-save-saint-louis-from-drowningae/>
https://www.youtube.com/watch?v=wPhWfjyqCBs&embeds_referring_uri=https%3A%2F%2Fdocs.google.com%2F&embeds_referring_origin=https%3A%2F%2Fdocs.google.com&source_ve_path=MzY4NDIsMjg2NjY&feature=emb_logo
<https://link.springer.com/article/10.1007/s10811-021-02676-w>
<https://www.nationalgeographic.com/environment/article/aquaculture-explainer-seaweed-fish-benefits-challenges>

Documentary

La pirogue - Moussa Touré (2012)
 VISITORS' BOOK | SEASON 1 | EPISODE 3 PIROGUES GALLERY (2022)
 Building a Priogue - Going Priogue, Feeding a Nation (2022)
 FLOATING CITY, MALDIVES (PROPOSAL) BY DR. KOEN OLTHUIS

