NilusForo

Status: Graduation Project

Year: 2026

Site Location: Rosetta, Egypt

Size: 86,000 m²

Typology: Market, Aquaculture

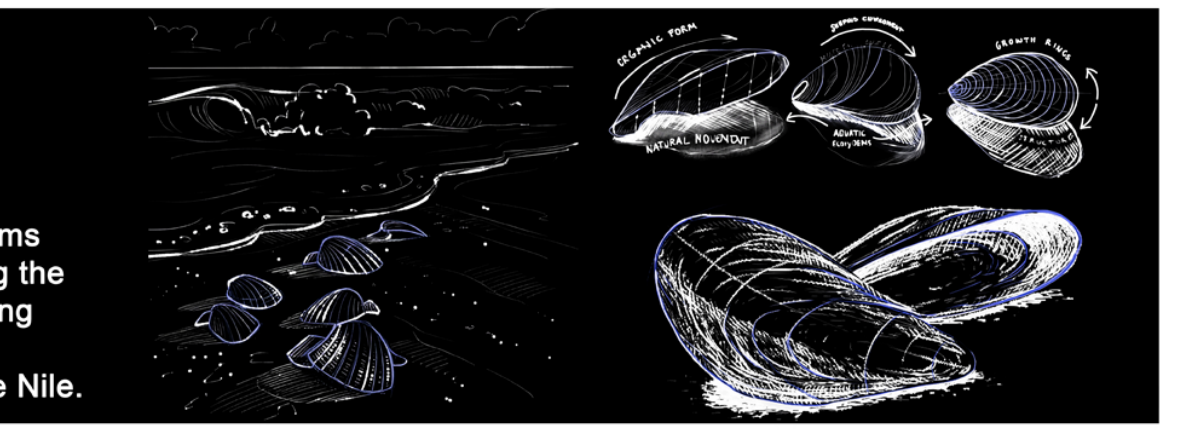
Supervised by:
Dr. Manar Hassan & Dr. Hisham Bahaa

T.A: Eng. Mirna Wael

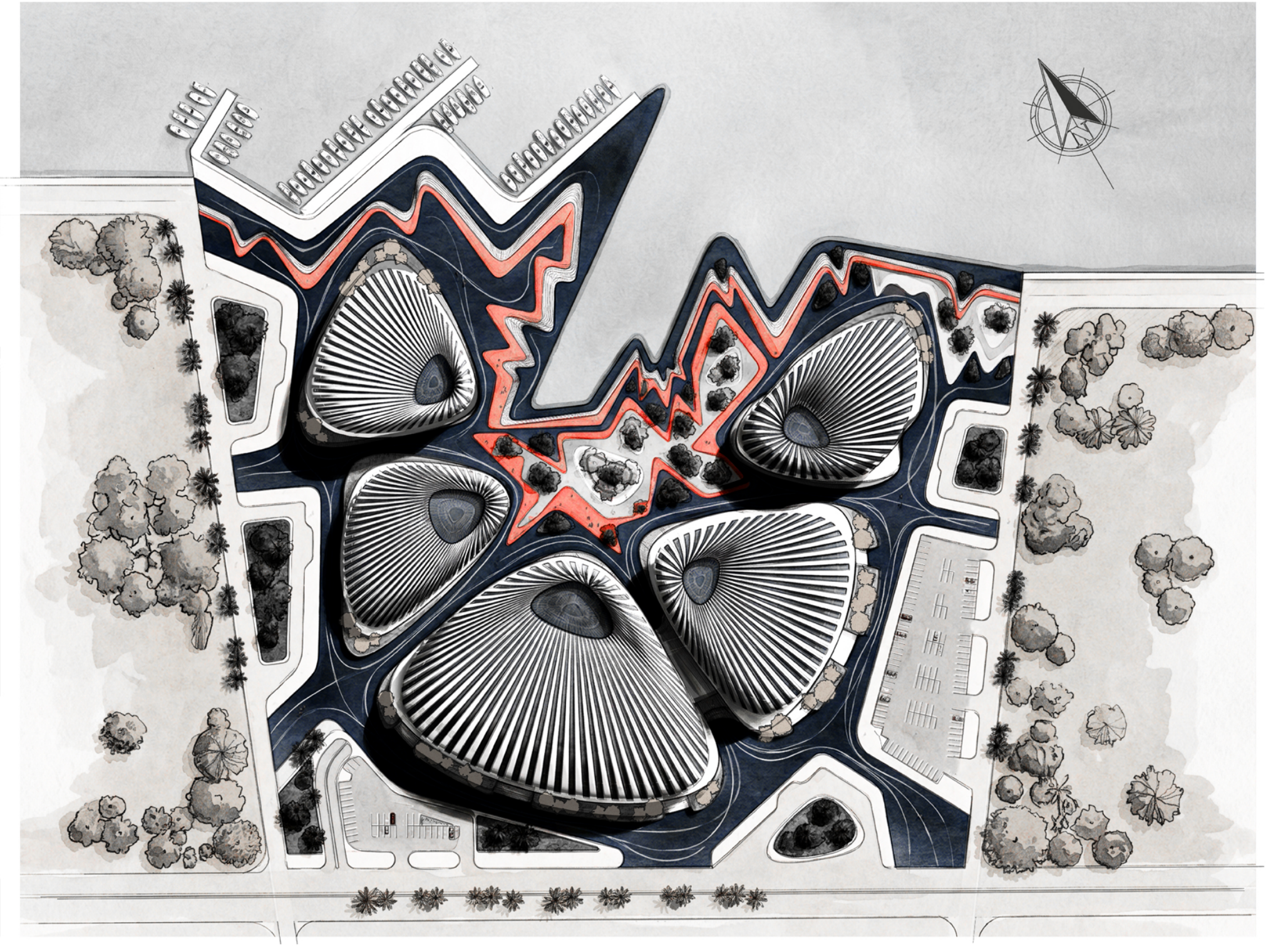
NilusForo: An Integrated Aquaculture & Fisheries Hub

Concept

Inspired by seashells along the shore, the design forms fluid layered massed shaped by water movment along the shore. A central pathway acts as the main spine, linking spaces with embedded green nodes, creating an interconnected system that reflects the rhythms of the Nile.



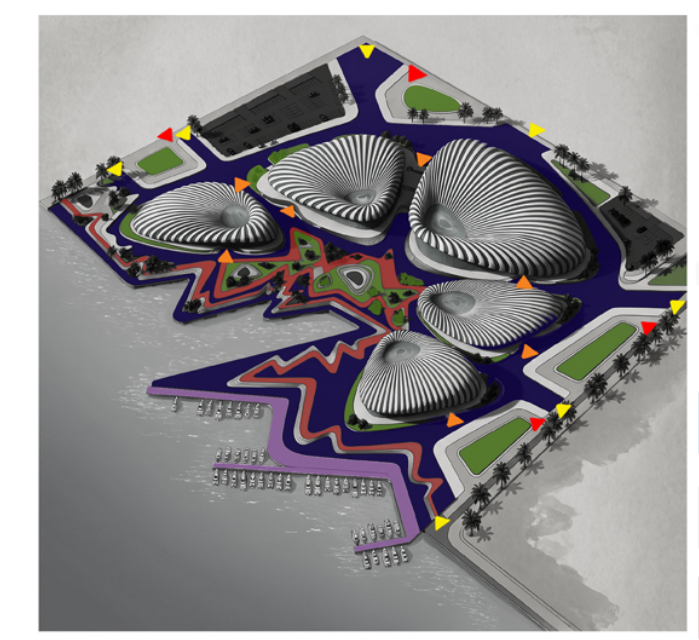
Layout 1-1000



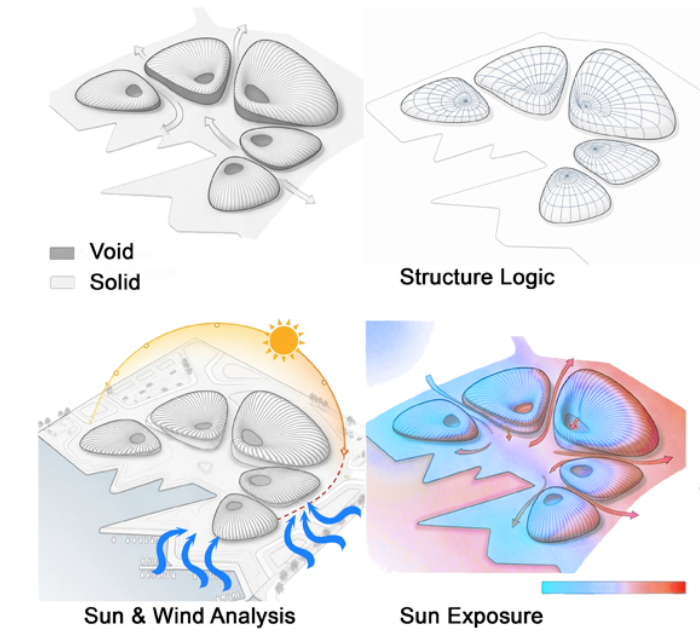
Site Location

EGYPT
ROSETTA

Site & Mass Analysis

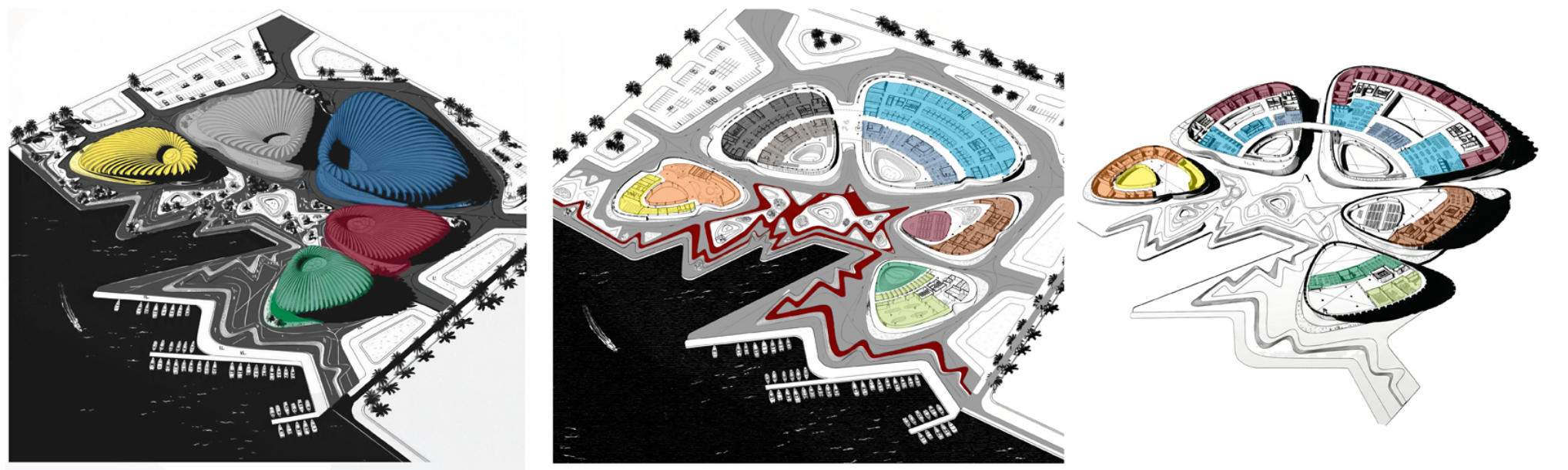


- 🟦 Pedestrian Main Paths
- 🟥 Pedestrian Shore Paths
- 🟩 Greenary
- ⬛ Parking
- 🟪 Wharves
- ▶ Bld Entrances
- ▶ Pedestrian Entrances
- ▶ Car Entrances


Void
Solid
Structure Logic
Sun & Wind Analysis
Sun Exposure

Ahmed Mohamed Ragab
User-Centered Design Studio

3D Zoning

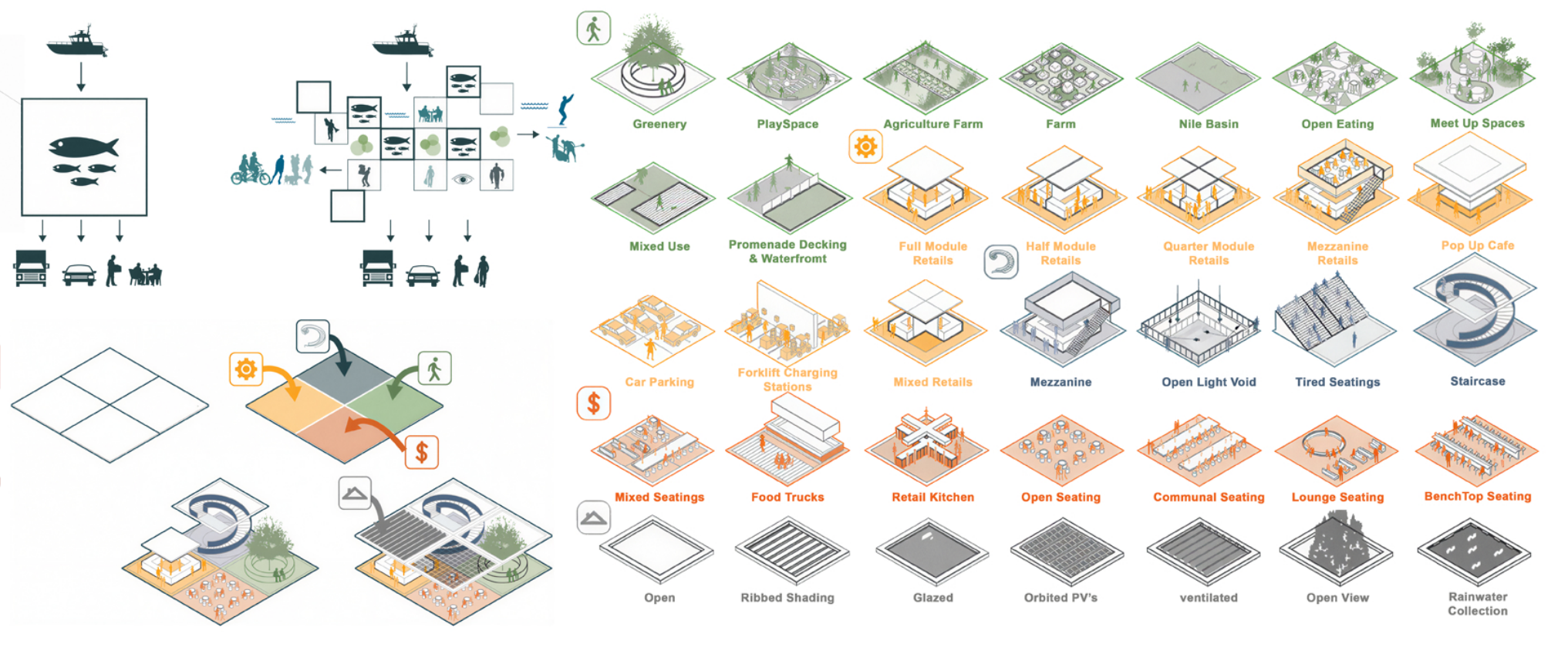


- Main Fish Market
- Aquarium, R&D
- Specialized Fish Market
- Fishing Hub
- Auction

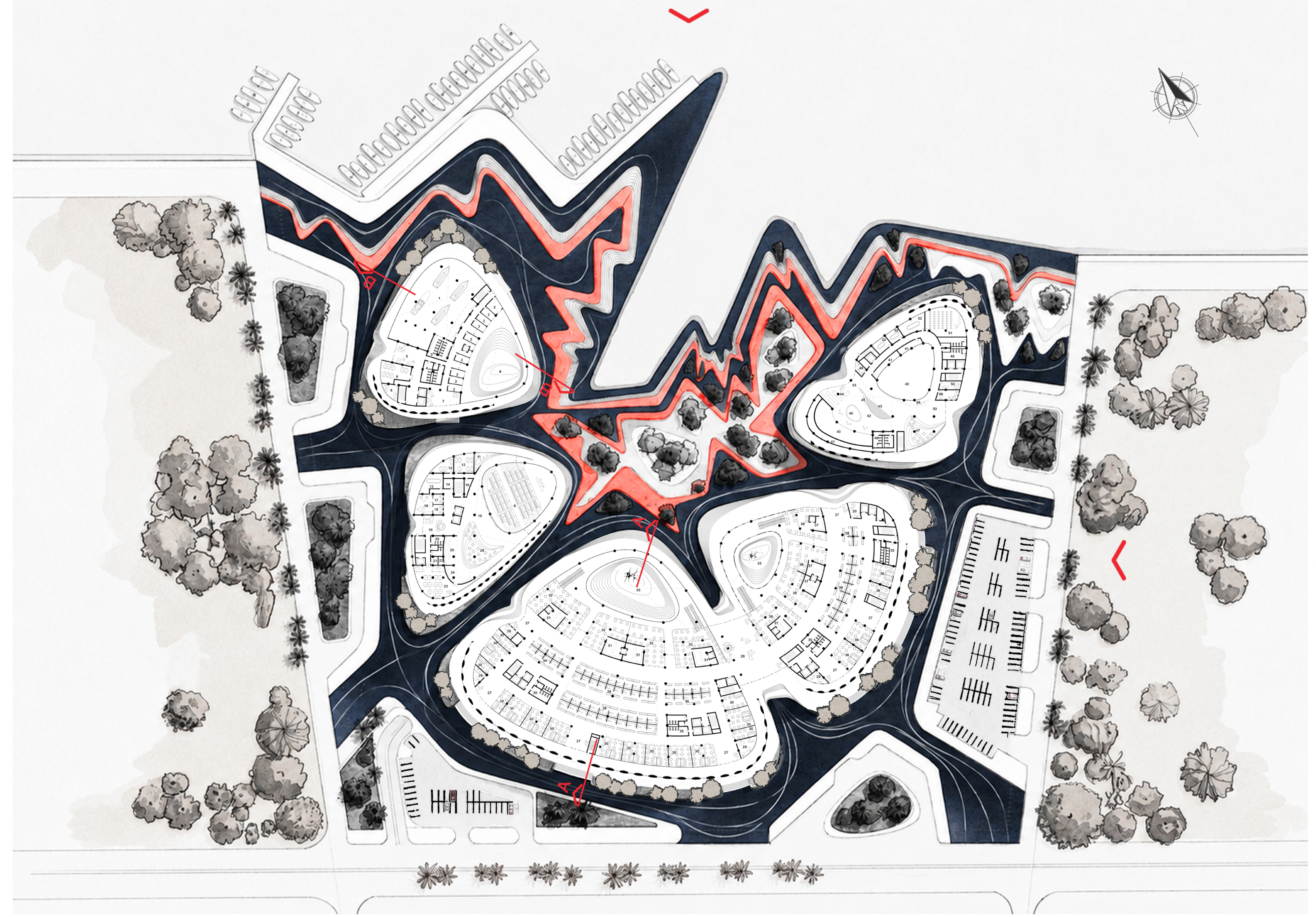
- Workshops
- Net Mending Plaza
- Auction Services
- Auction Hall
- Main Fish Market Stalls
- Seafood Resturants
- Specialized Fish Market Stalls
- Specialized Seafood Resturants
- TRs & Workshops
- Aquarium

- Admin
- Fishermen Catering
- Auction Services
- Retails
- Cooking Schools & Dining
- Offices
- Fish Pools
- Labs

User & Activities Oriented Design


Greenery
PlaySpace
Agriculture Farm
Farm
Nile Basin
Open Eating
Meet Up Spaces
Mixed Use
Promenade Decking & Waterfront
Full Module Retails
Half Module Retails
Quarter Module Retails
Mezzanine Retails
Pop Up Cafe
Car Parking
Forklift Charging Stations
Mixed Retails
Mezzanine
Open Light Void
Tired Seatings
Staircase
Mixed Seatings
Food Trucks
Retail Kitchen
Open Seating
Communal Seating
Lounge Seating
BenchTop Seating
Open
Ribbed Shading
Glazed
Orbited PV's
ventilated
Open View
Rainwater Collection

Masterplan 1:500



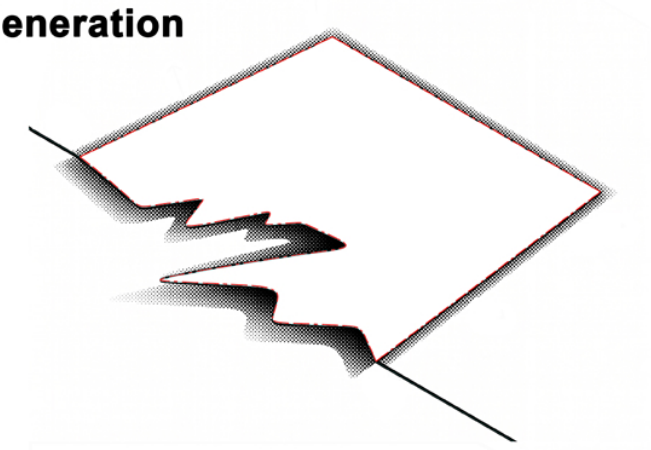
Fishing Hub
- 1- Ship Workshop
- 2- Fishermen Workshop
- 3- Changing Rooms
- 4- Rest Rooms
- 5- Main Entrance
- 6- Admin Office
- 7- Fishermen Entrance
- 8- Net Mending Plaza

Auction
- 9- Auction Hall
- 10- Auction Hall Lobby
- 11- Reception Desk
- 12- Office
- 13- Meeting Room
- 14- Mech Room
- 15- Elec Room
- 16- Credit Manager / Acc Office
- 17- Cashiers Office
- 18- Credit Office
- 19- Entrance Lobby
- 20- Rest Rooms
- 21- Storage Room
- 22- Cafe Pantry
- 23- Coworking Space
- 24- Book Store
- 25- Cafe
- 26- Open Seatings

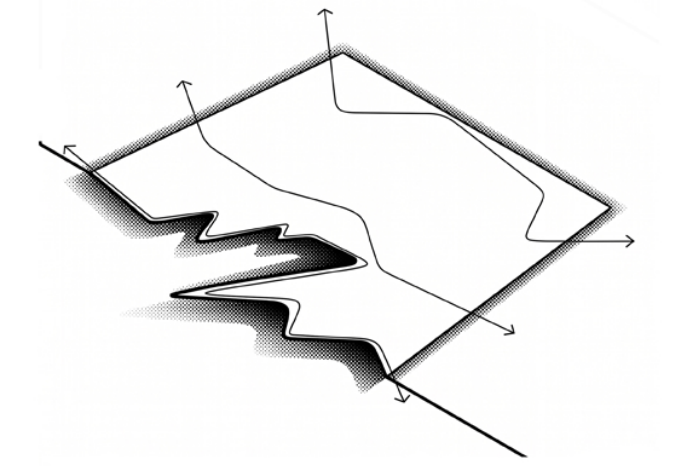
Fish Market
- 27- Entrance Lobby
- 28- Main Entrane Lobby
- 29- Security Room
- 30- Fish Stalls Type 1
- 31- Seafood Kitchen
- 32- Seafood Resturant
- 33- Courtyard with Terraced Seatings
- 34- Fish Stalls Type 2
- 35- Rest Rooms
- 36- Specialized Seafood Stalls Type 1
- 37- Specialized Seafood Kitchen
- 38- Specialized Resturant
- 39- Specialized Seafood Stalls Type 2

Aquarium, R&D
- 40- Fish Pool
- 41- Fish Pool Maintainance Room
- 42- Exhibition Hall
- 43- Tiered Seating
- 44- Gift Shop
- 45- Show Stand
- 46- Rest Rooms
- 47- Open Lounge
- 48- Reception Desk
- 49- Ticket Room
- 50- Back Office
- 51- TR
- 52- Workshop
- 53- Entrance lobby

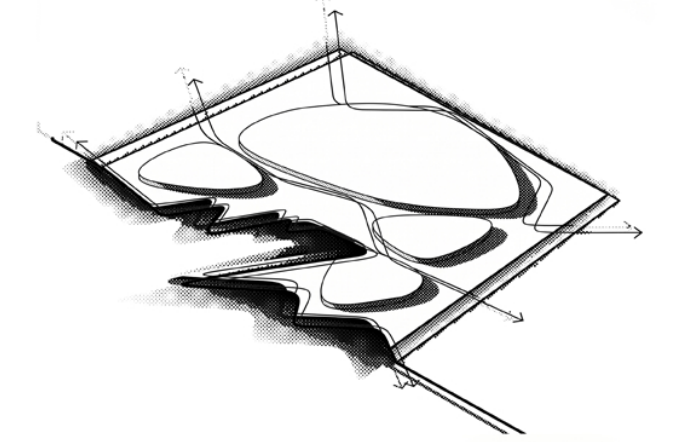
Layout Form Generation



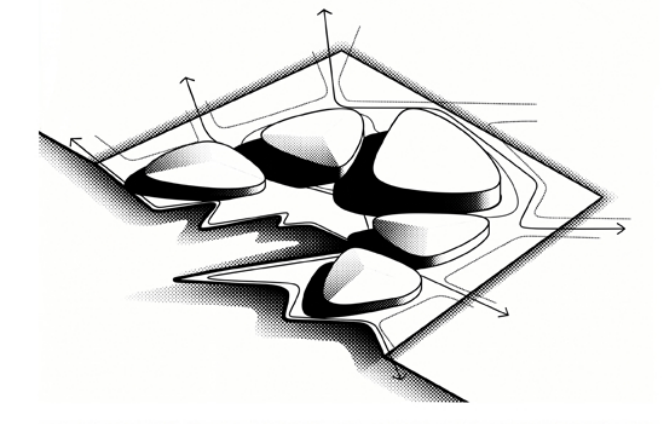
Site + Waterfront Forces



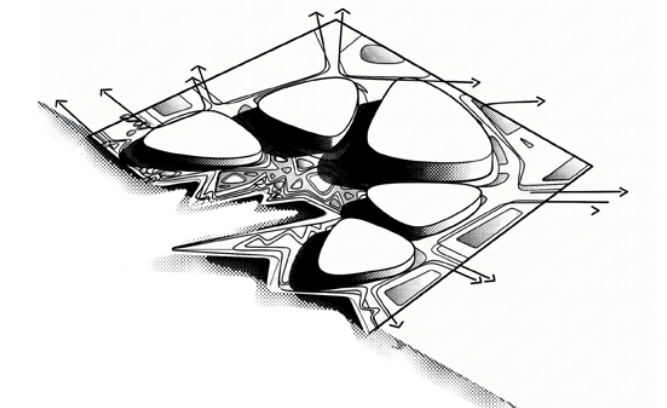
Public Spines Formation



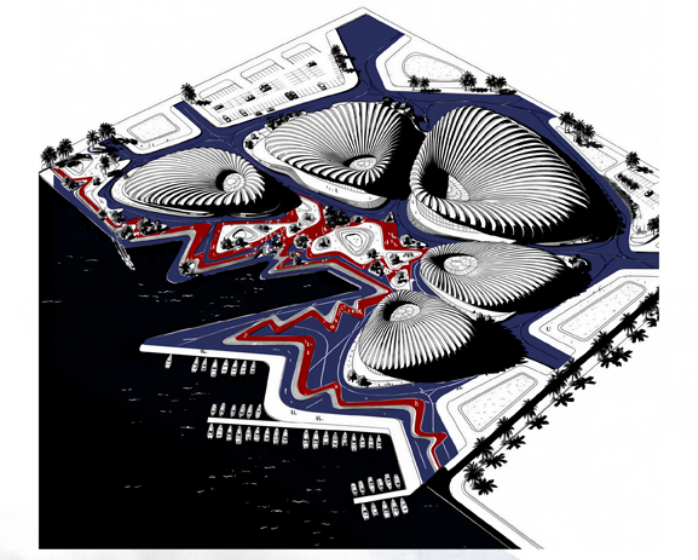
Bld Zones Formation



Fishing Hub Program Integration

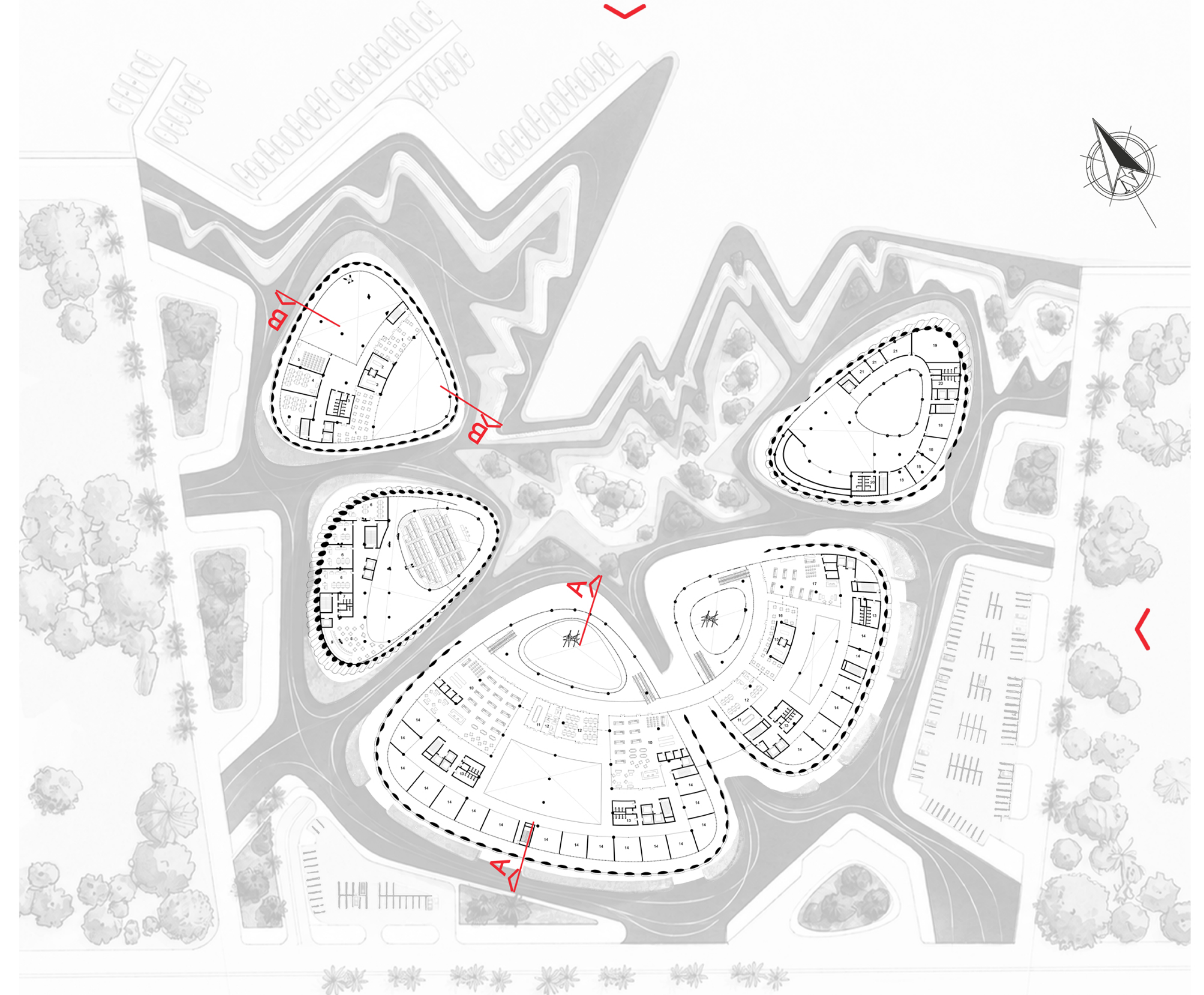


Landscape Insertion & Leveling



Final Design

First Floor Plan 1:750



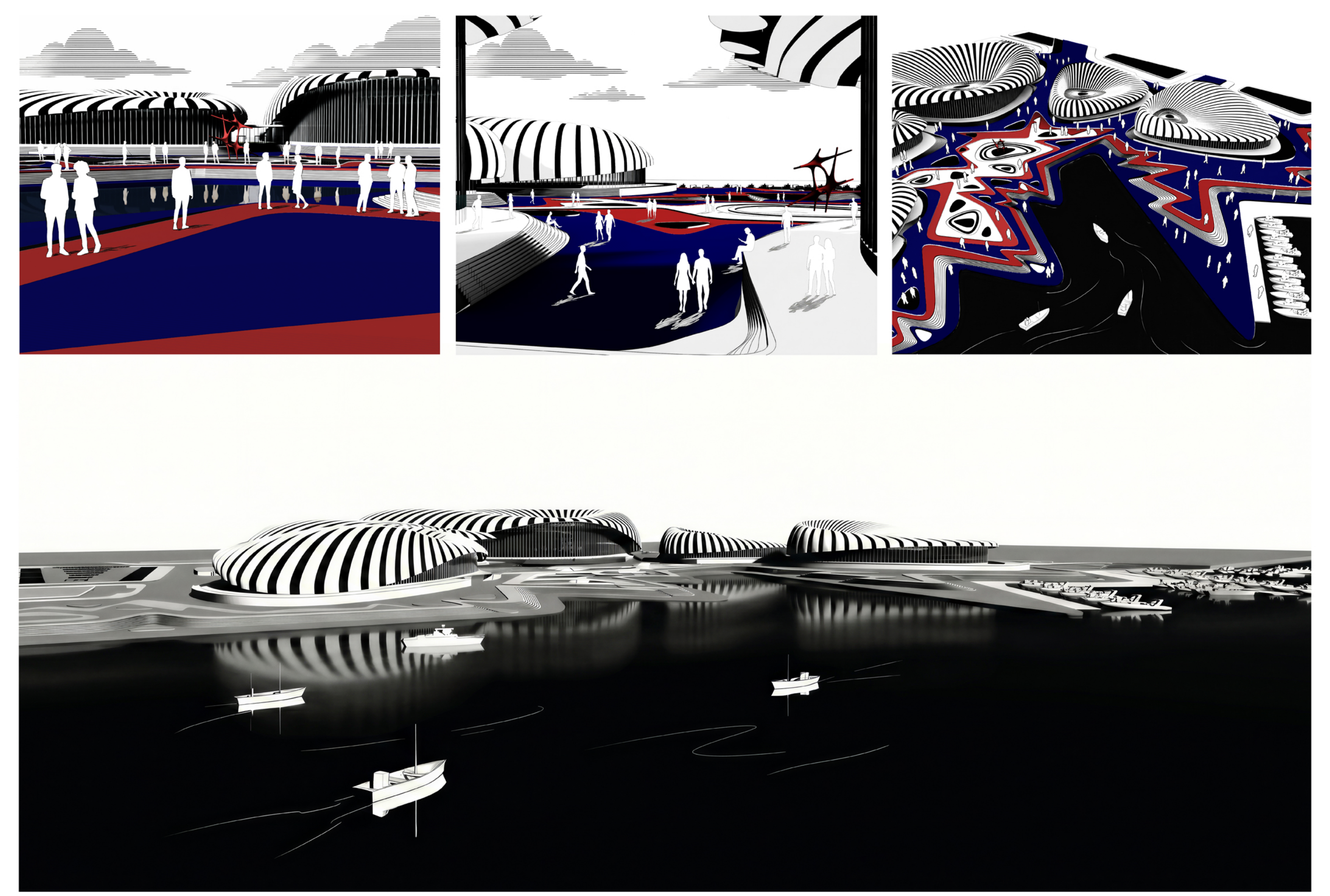
Fishing Hub
- 1- Fishermen Catering
- 2- Kitchen
- 3- Rest Rooms
- 4- Office
- 5- TR

Auction
- 6- Office
- 7- Rest Rooms
- 8- Open Lounge
- 9- Bar

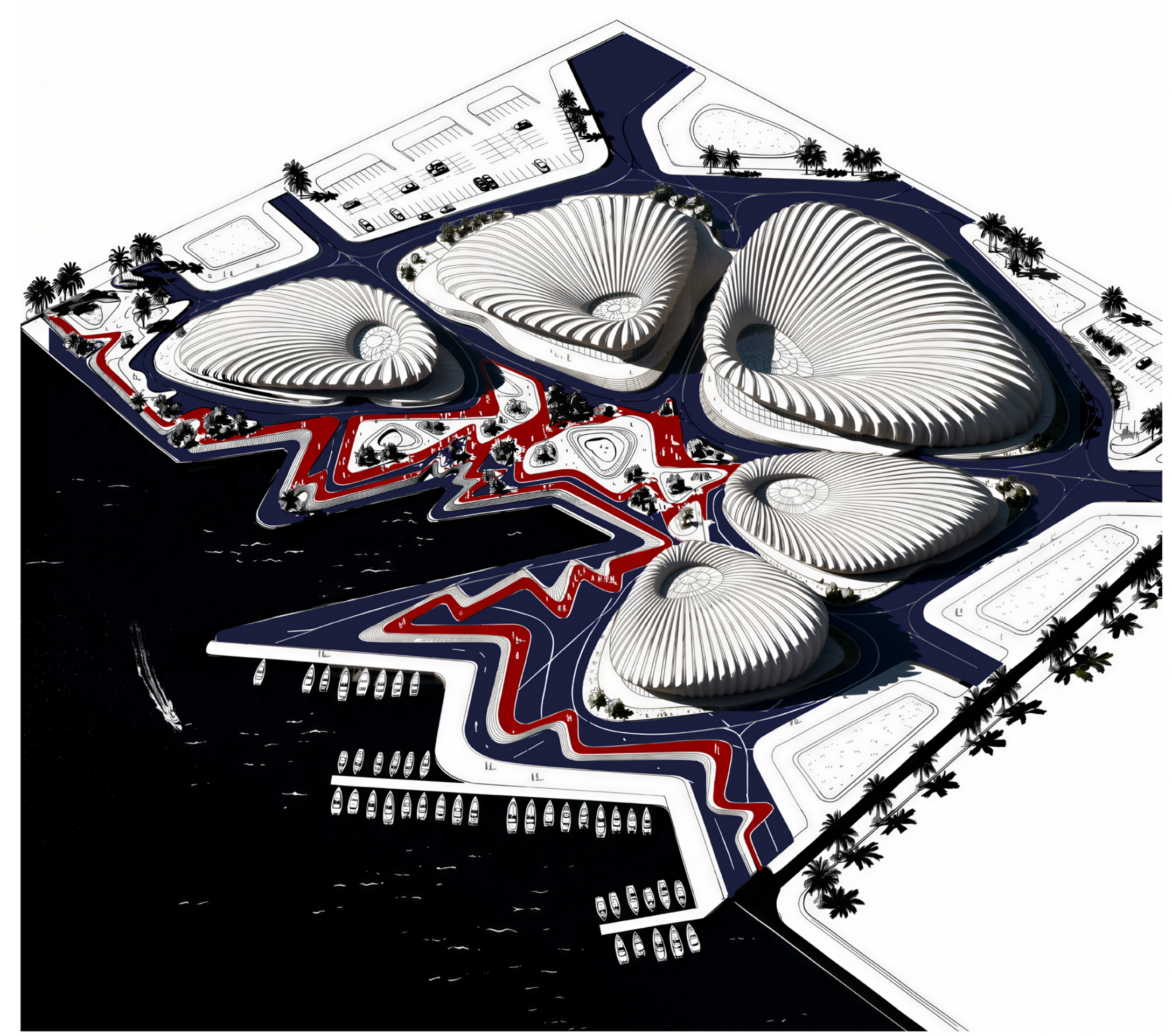
Fish Market
- 10- Cooking School
- 11- Meeting Room
- 12- Office
- 13- Rest Rooms
- 14- Retail
- 15- Kitchen
- 16- Communal Dinnig
- 17- Specialized Cooking School

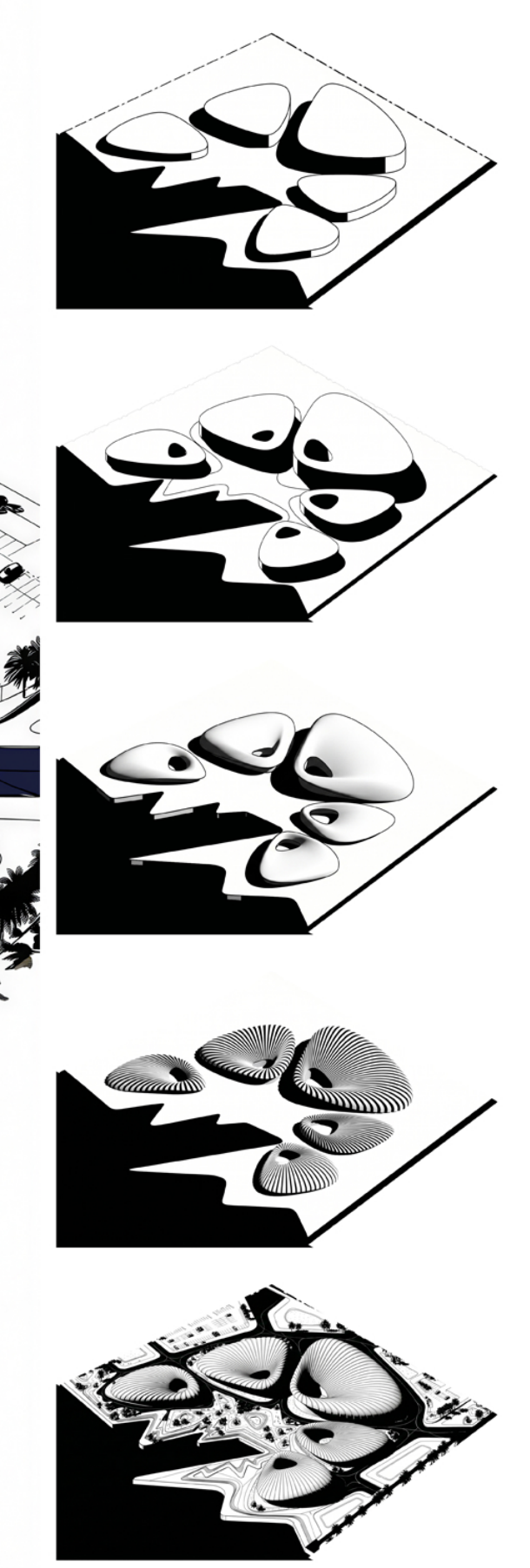
Aquarium, R&D
- 18- Lab
- 19- Meeting Room
- 20- Rest Rooms
- 21- Office

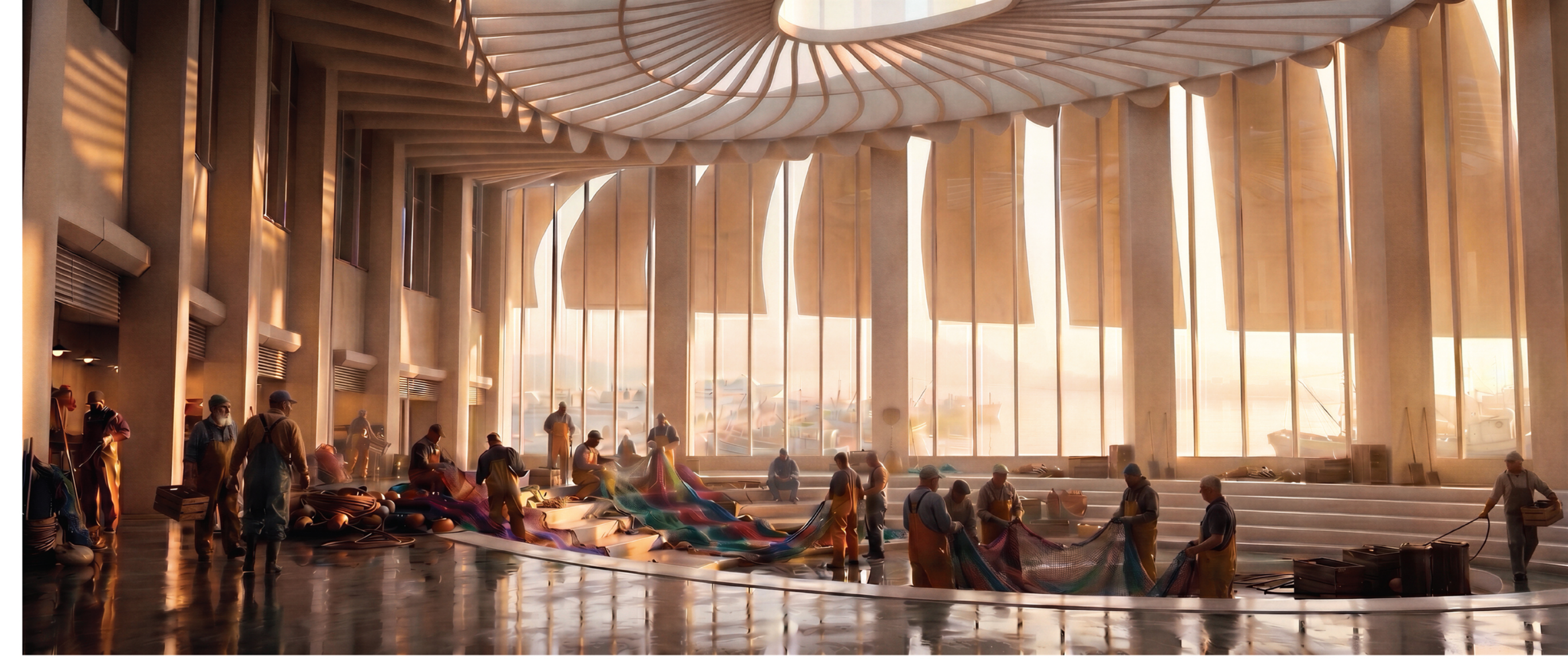
Illustrative 3D Shots

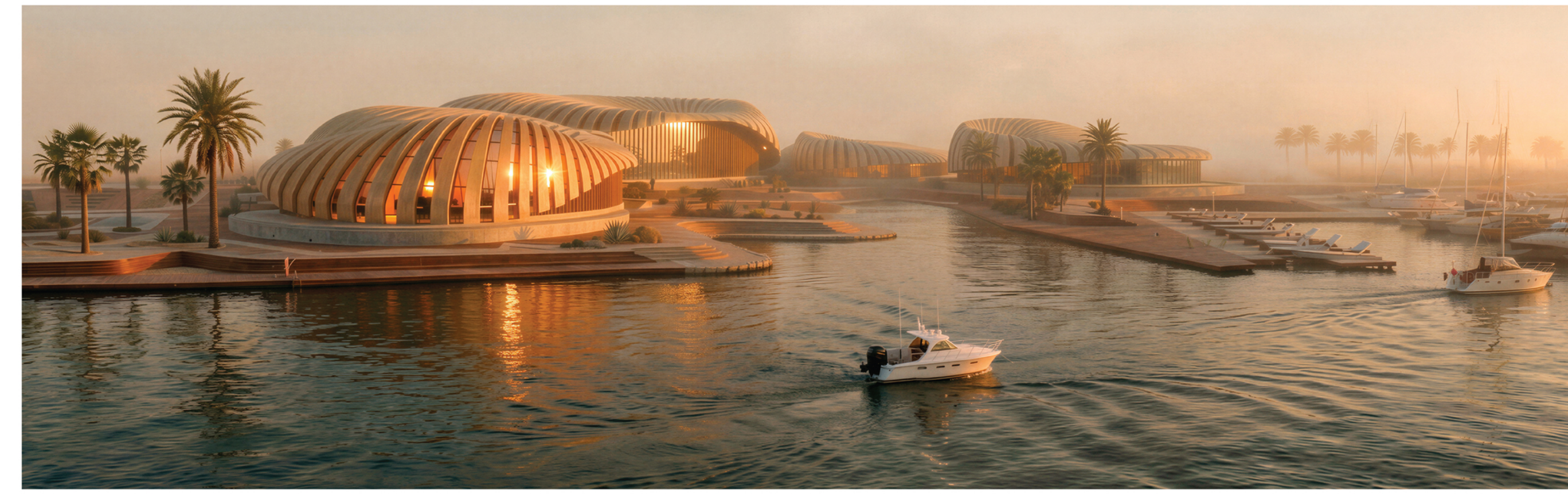


Aerial 3D Perspective Shot

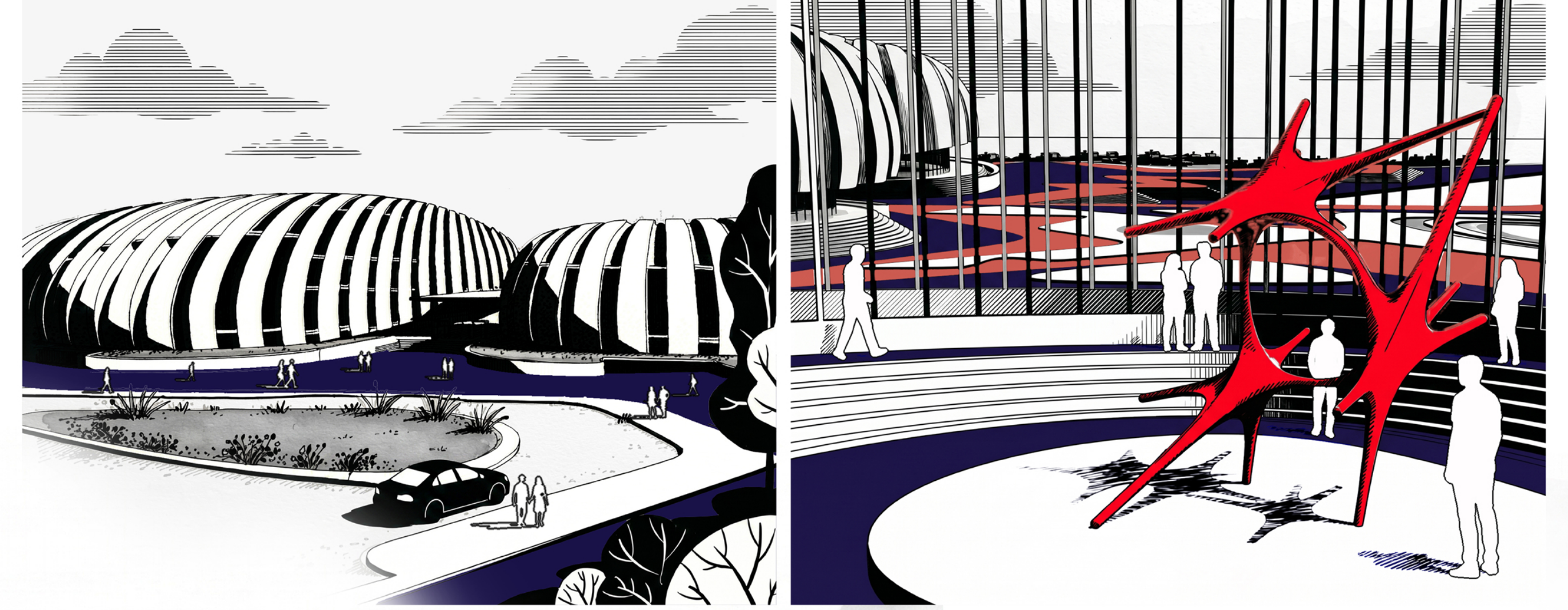




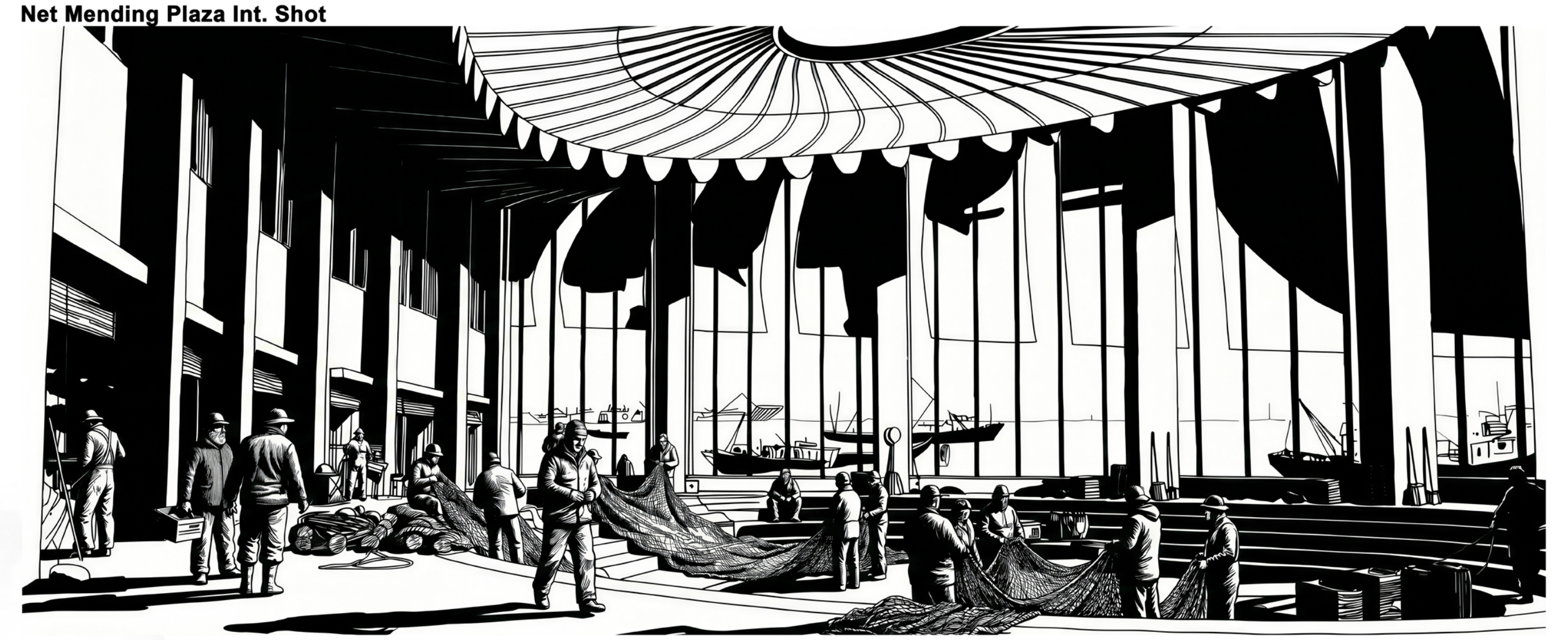




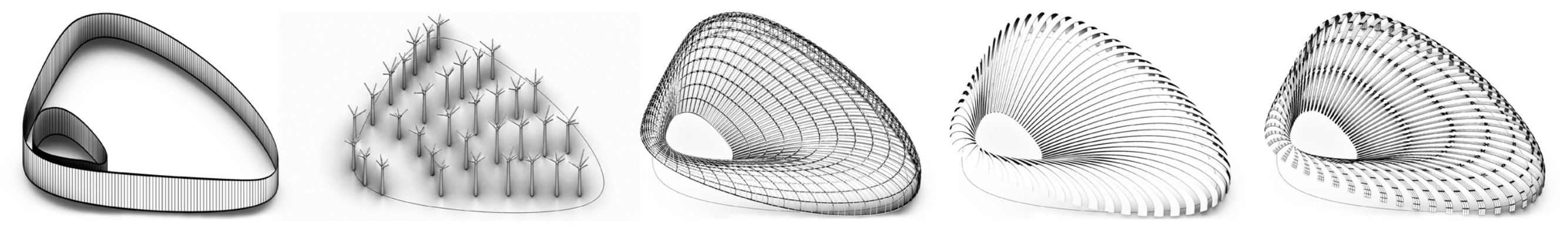
Illustrative Close Up 3D Shots



Net Mending Plaza Int. Shot

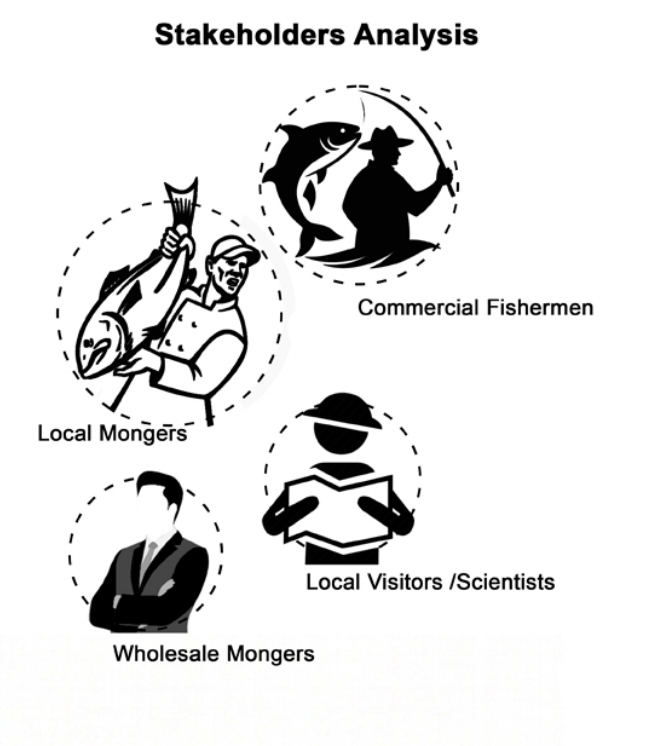


Structure Analysis



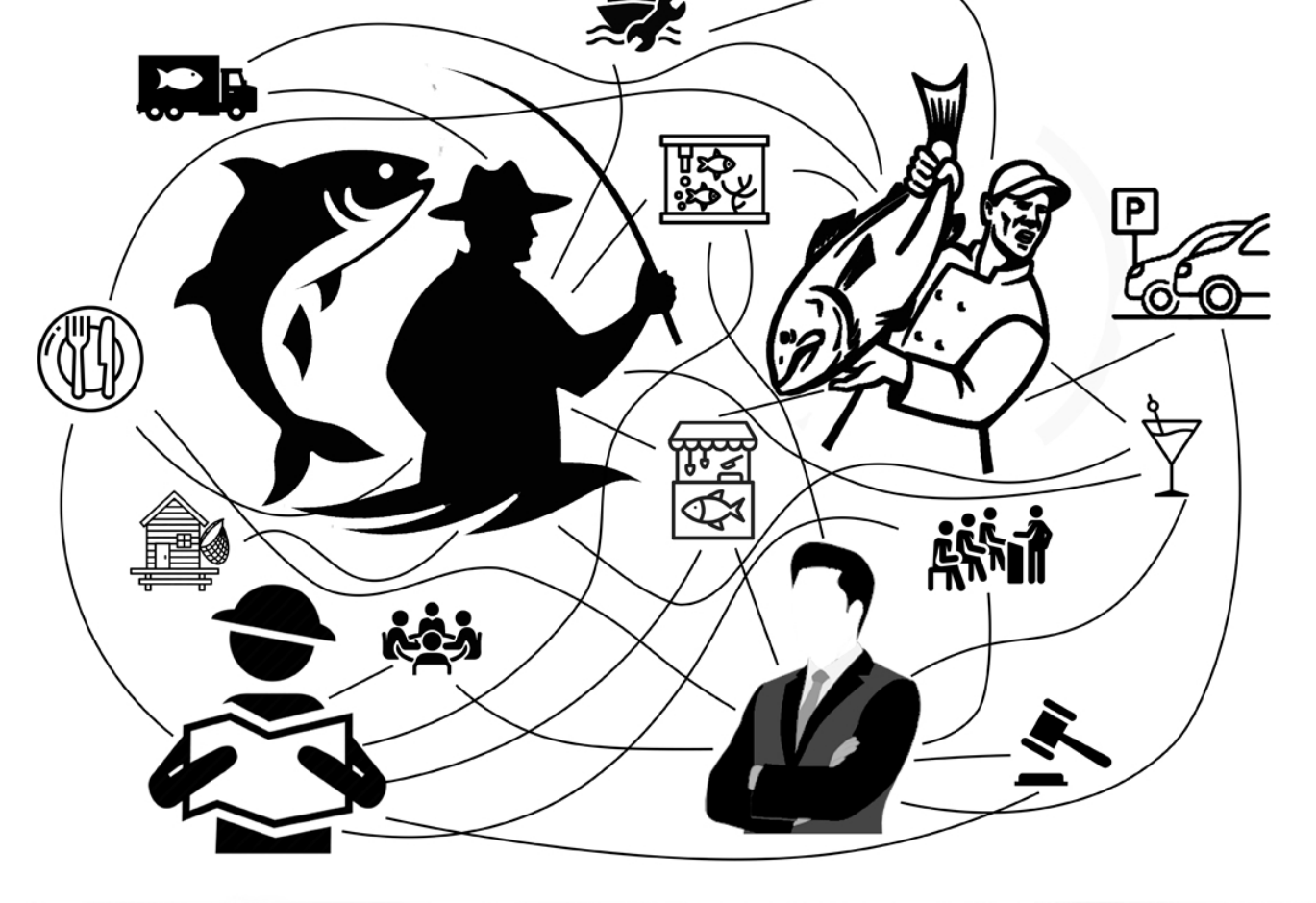
Curtain Wall Panels
T - Columns Structure
3D Space Frame
GRC Panels Shell
Shell Curtain Panels

User Centered Diagrams



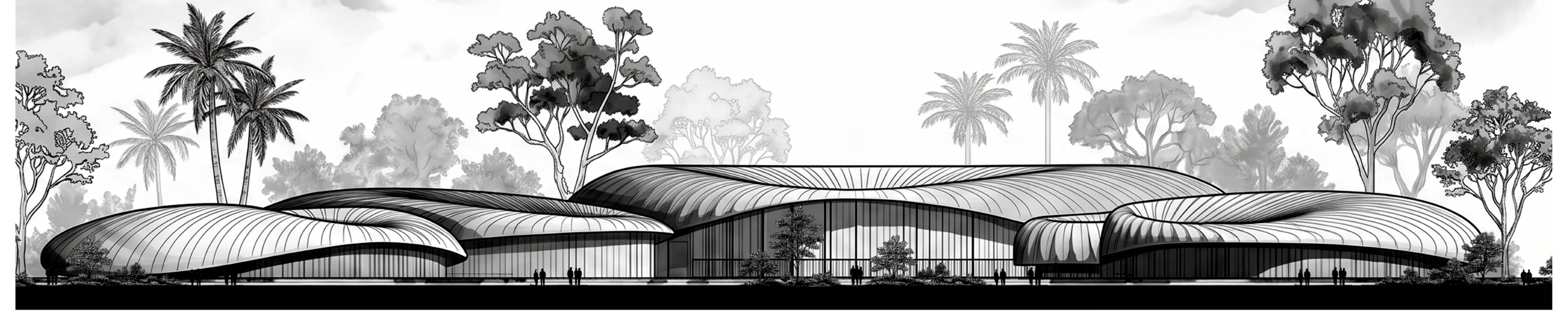
Stakeholders Analysis

Commercial Fishermen
Local Mongers
Local Visitors /Scientists
Wholesale Mongers

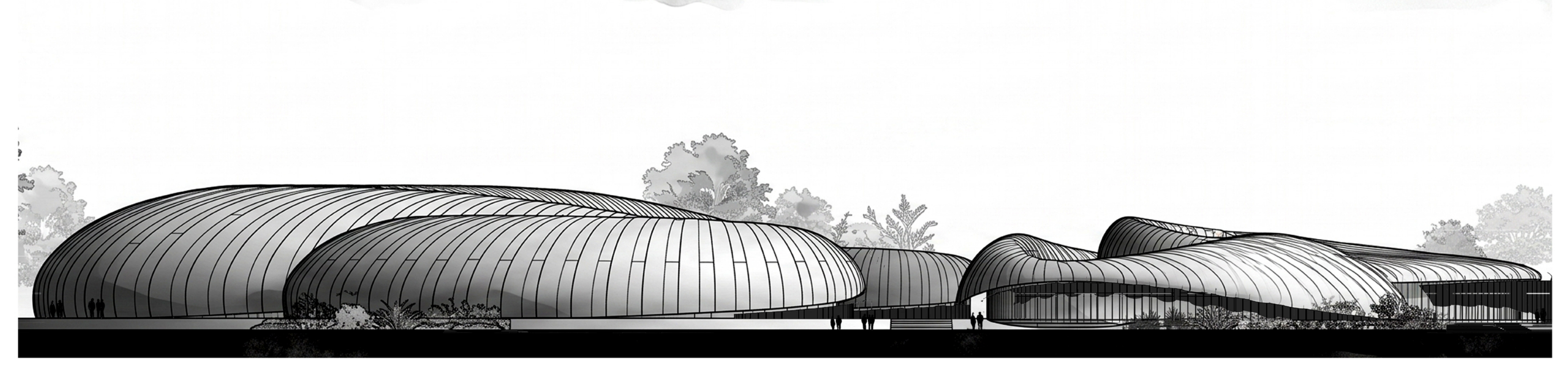


- Local fishmarket for fishermen to distribute within Rosetta community.
- Fish net stations / workshops for fishermen to store tools and dry and mend nets.
- Resturants and food stalls for local seafood production adding rich culinary culture.
- Boat shed spaces and workshops for maintainance.
- Auction hall & services to ensure fair price and wholesale distribution.

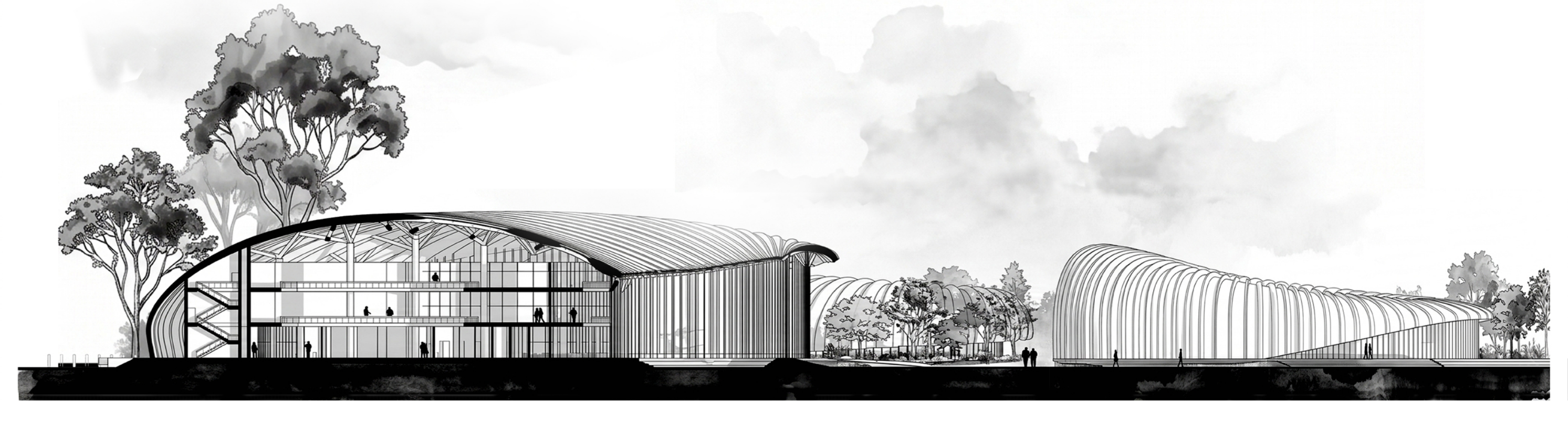
River Side Elevation 1:250

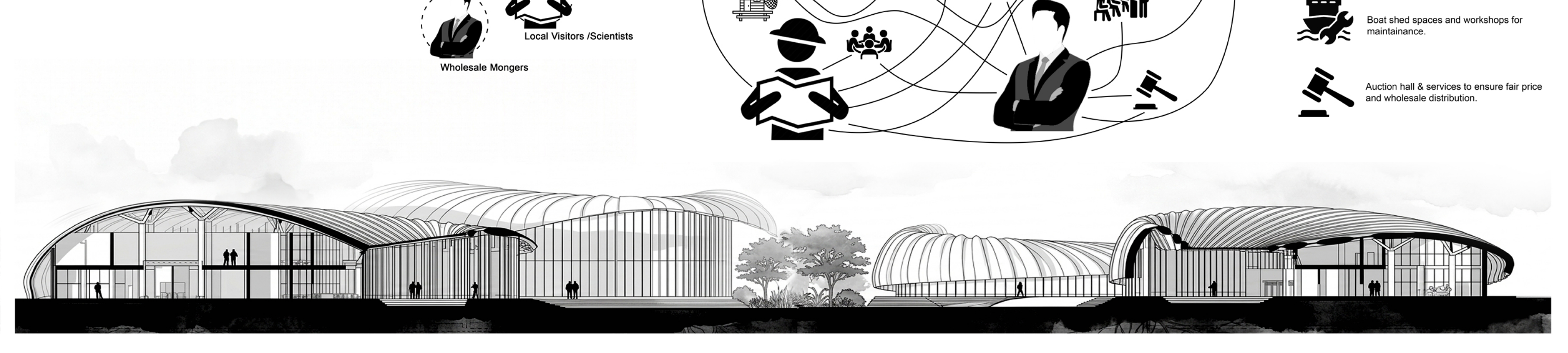


Side Elevation 1:250



Section A-A 1:250



Section B-B 1:250