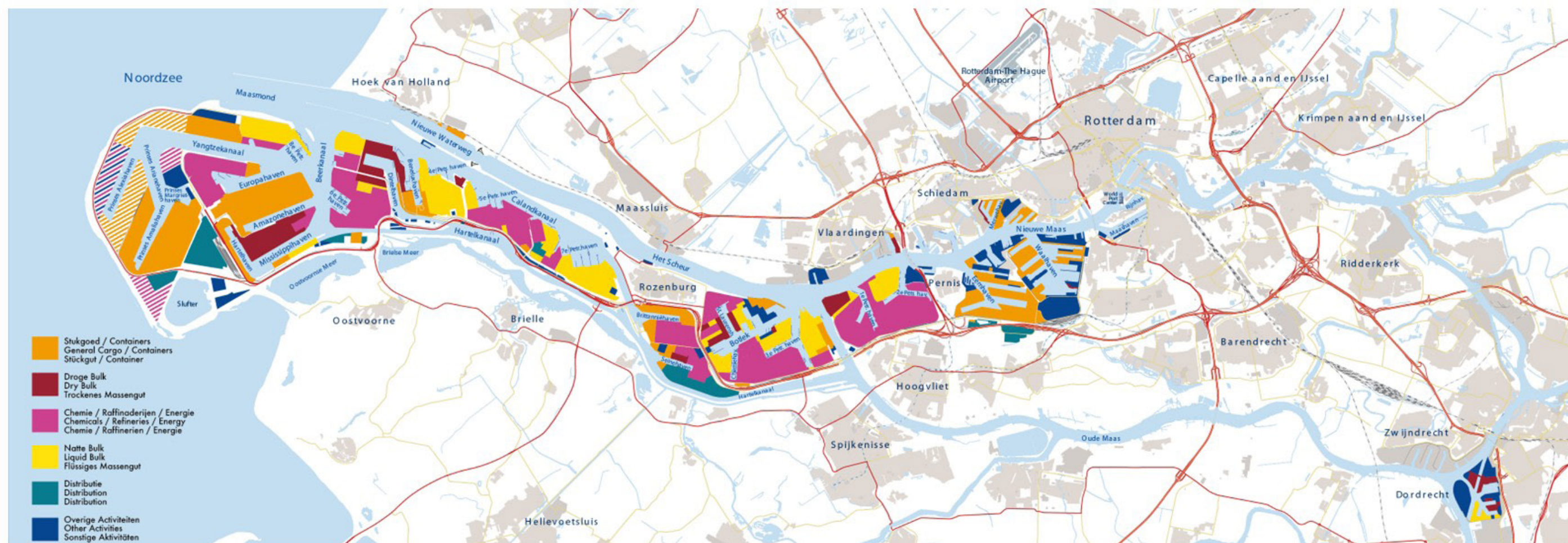


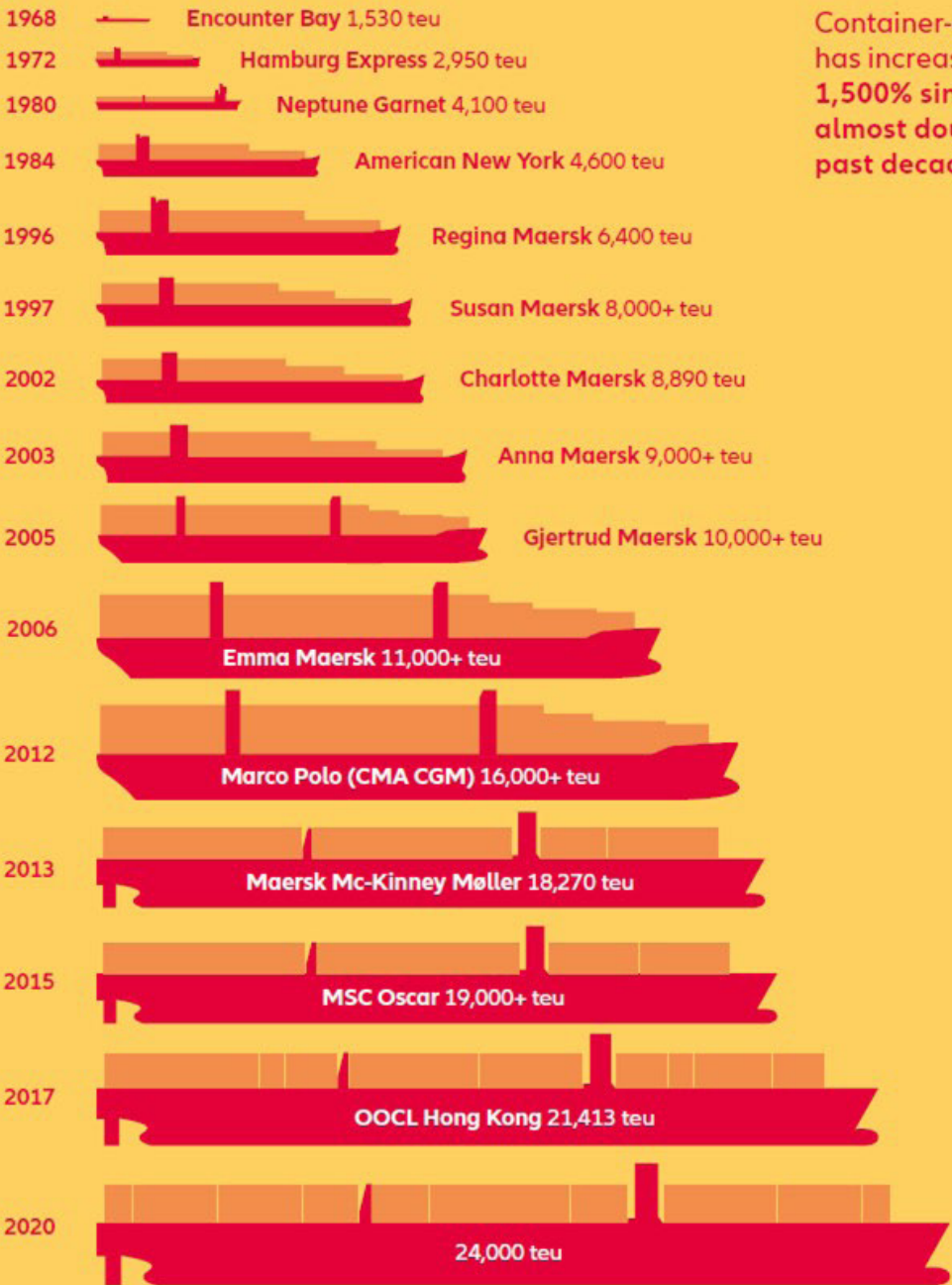
Floating Haven

: Floating Maritime Terminal Office

June Choi



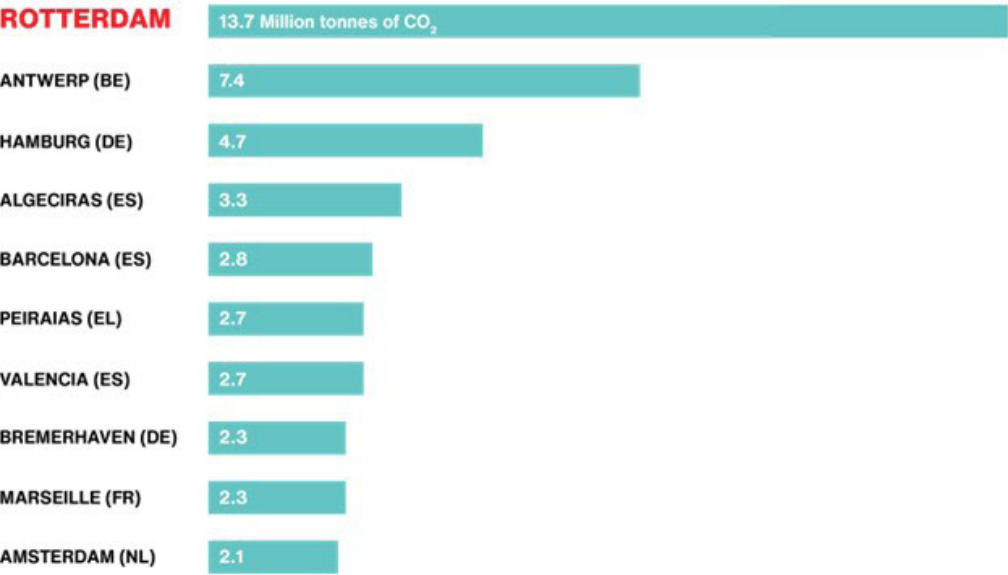
50 YEARS OF CONTAINER SHIP GROWTH



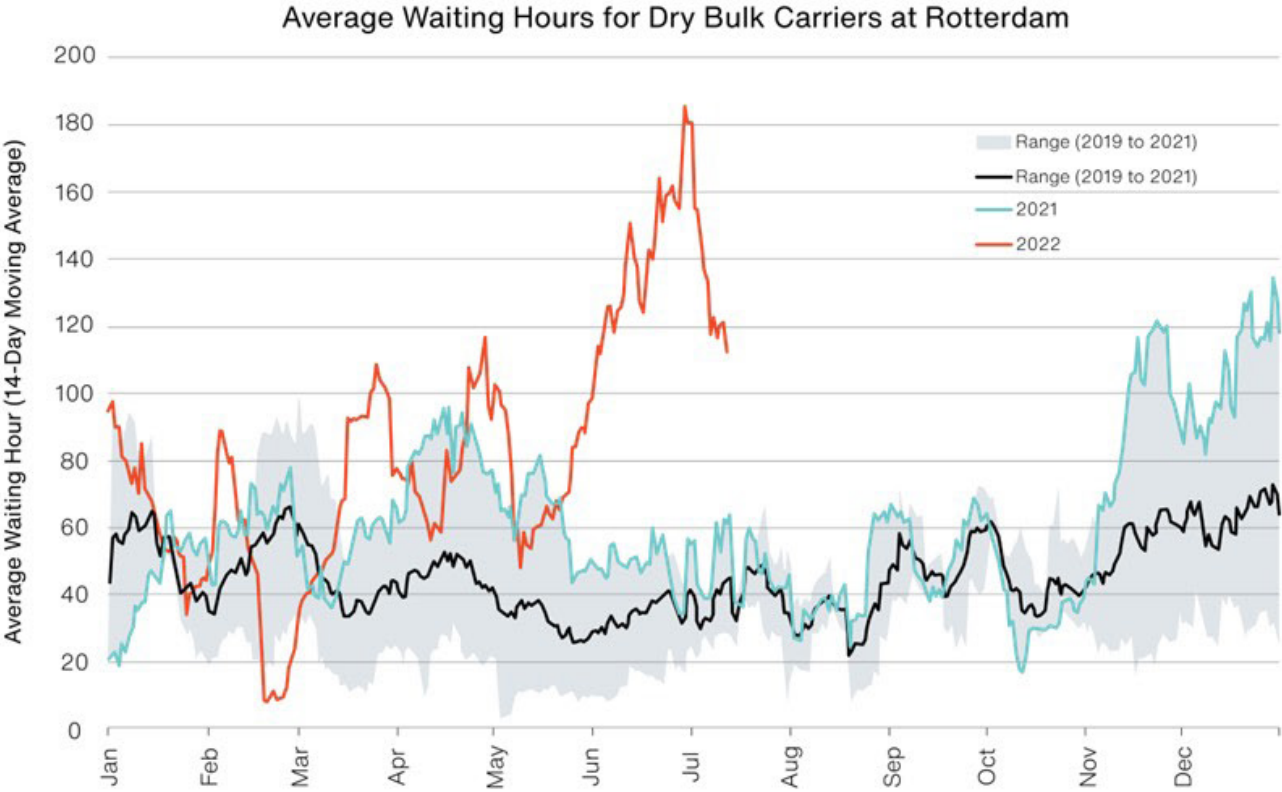
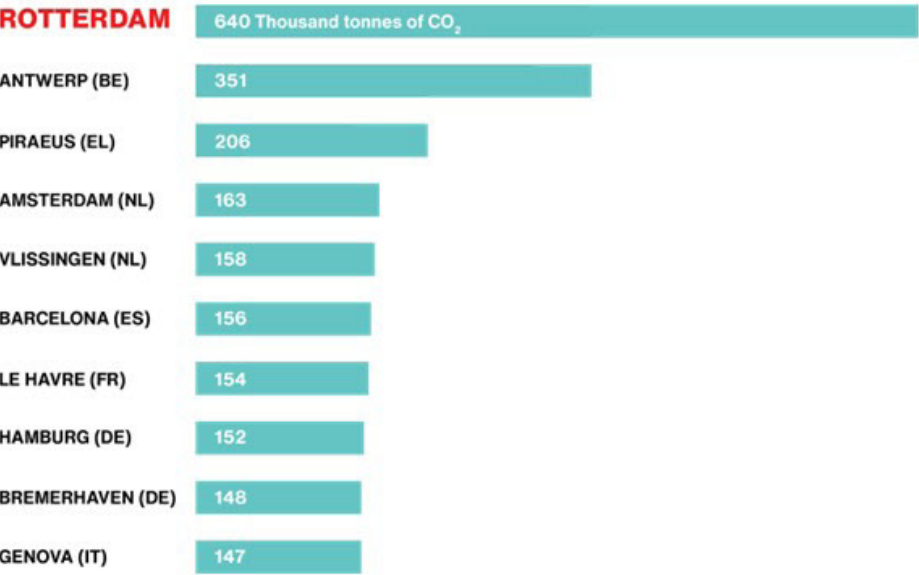
Container-carrying capacity has increased by around **1,500%** since 1968 and has almost doubled over the past decade



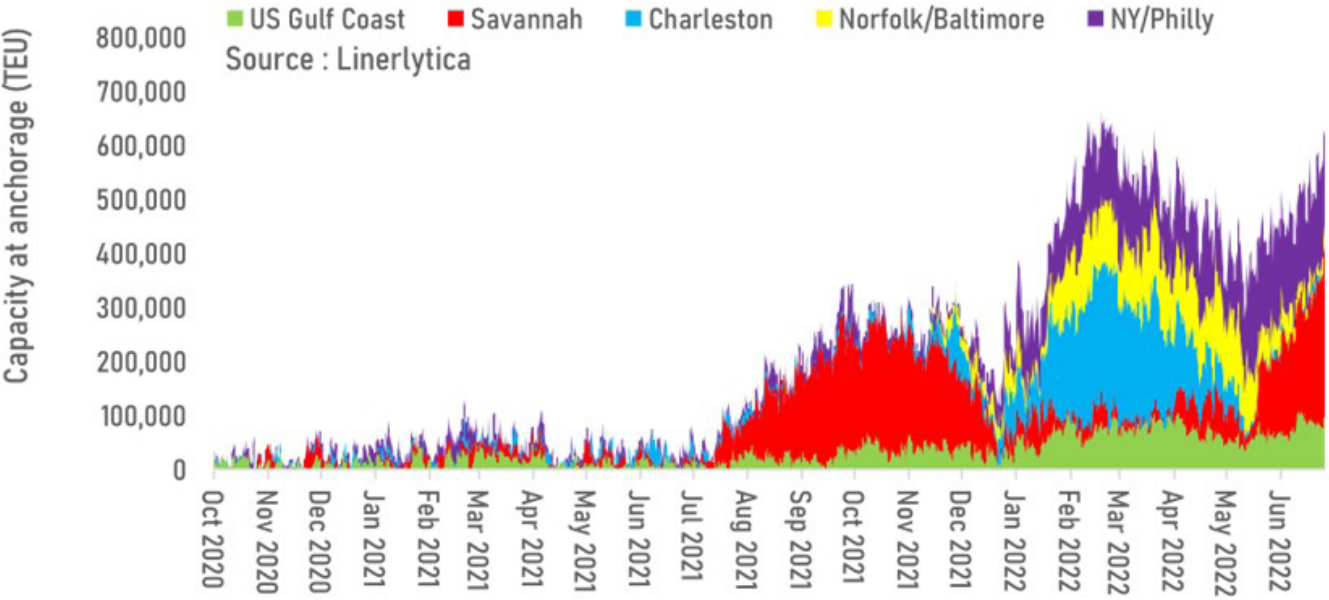
Most Polluting European Ports



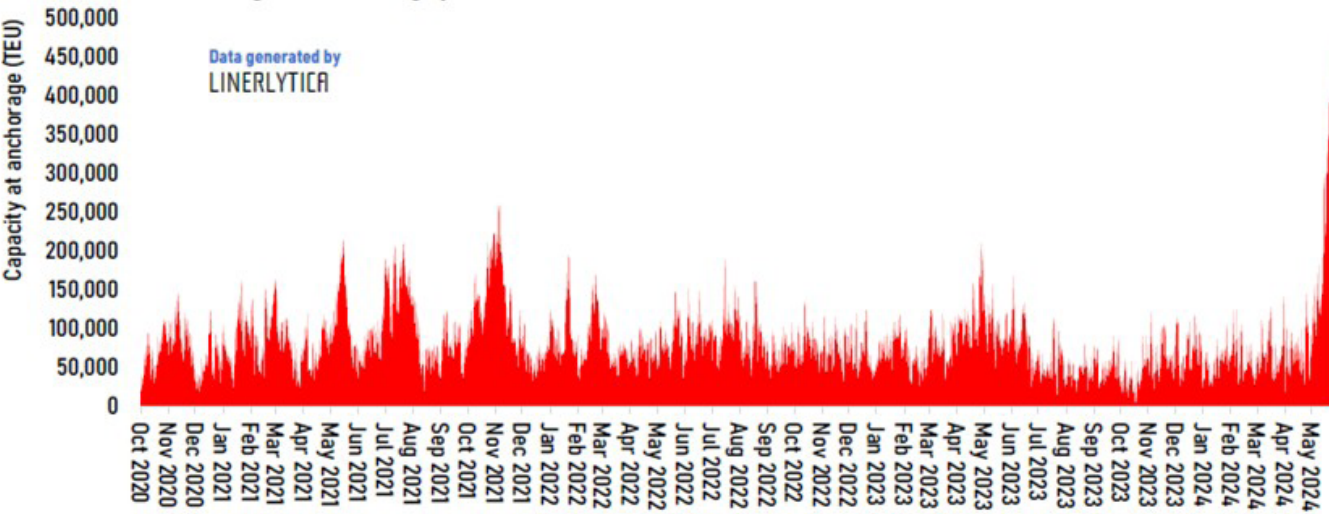
Emissions from Ship Activities at Port



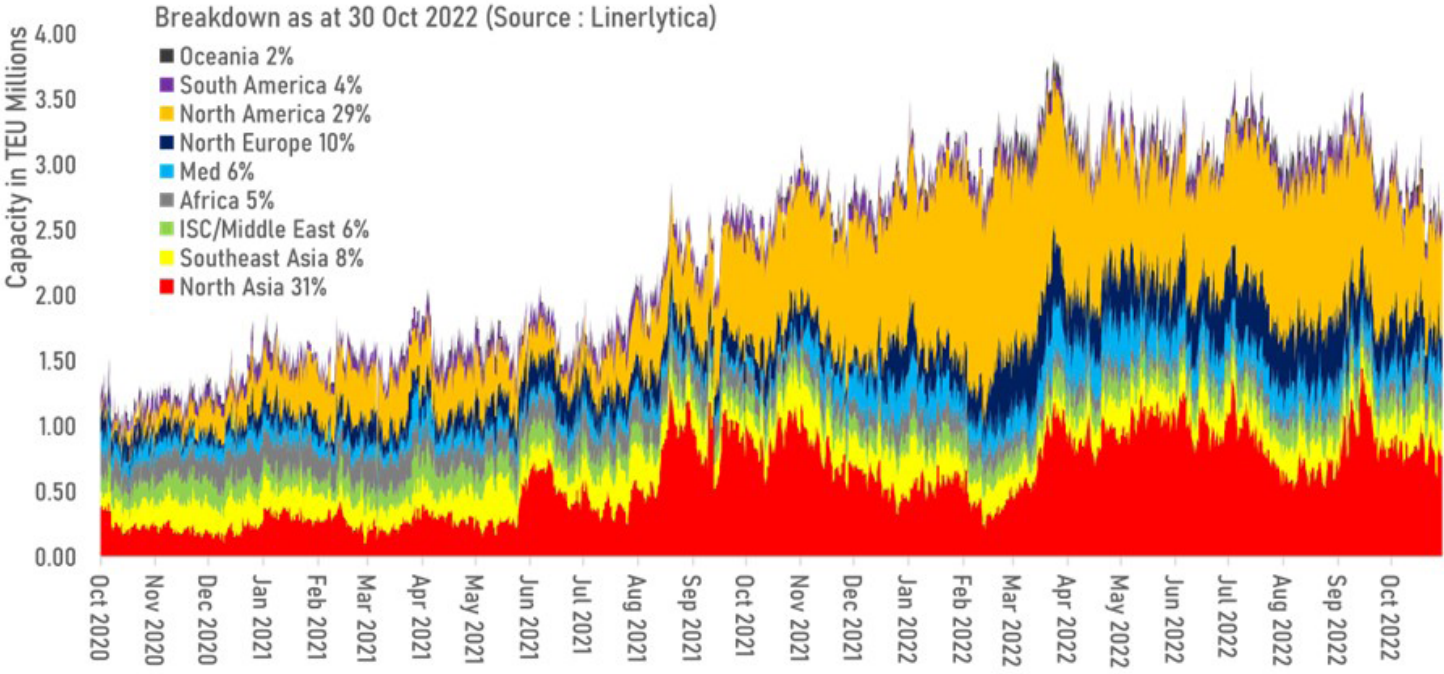
Port Congestion - US East Coast



Port Congestion - Singapore



Port congestion by region



Zuid-Holland wil in 2027 besluit over uitbreiding Maasvlakte in zee

22 mei, 12:23

De provincie Zuid-Holland hoopt dat in 2027 een besluit valt over de mogelijke uitbreiding van de Maasvlakte. De provincie organiseert komende maandag een symposium, waar 140 vertegenwoordigers van betrokken partijen discussiëren over zeewaartse uitbreiding van de Rotterdamse haven. Het havengebied is in de afgelopen zeventig jaar al twee keer vergroot door voor de westkust grote hoeveelheden zand op te spuiten.





What if we could move part of the terminal offshore?



1 large container ships

2 trans-shipment in floating terminal

3 feederships

4 land terminal

5 road transport

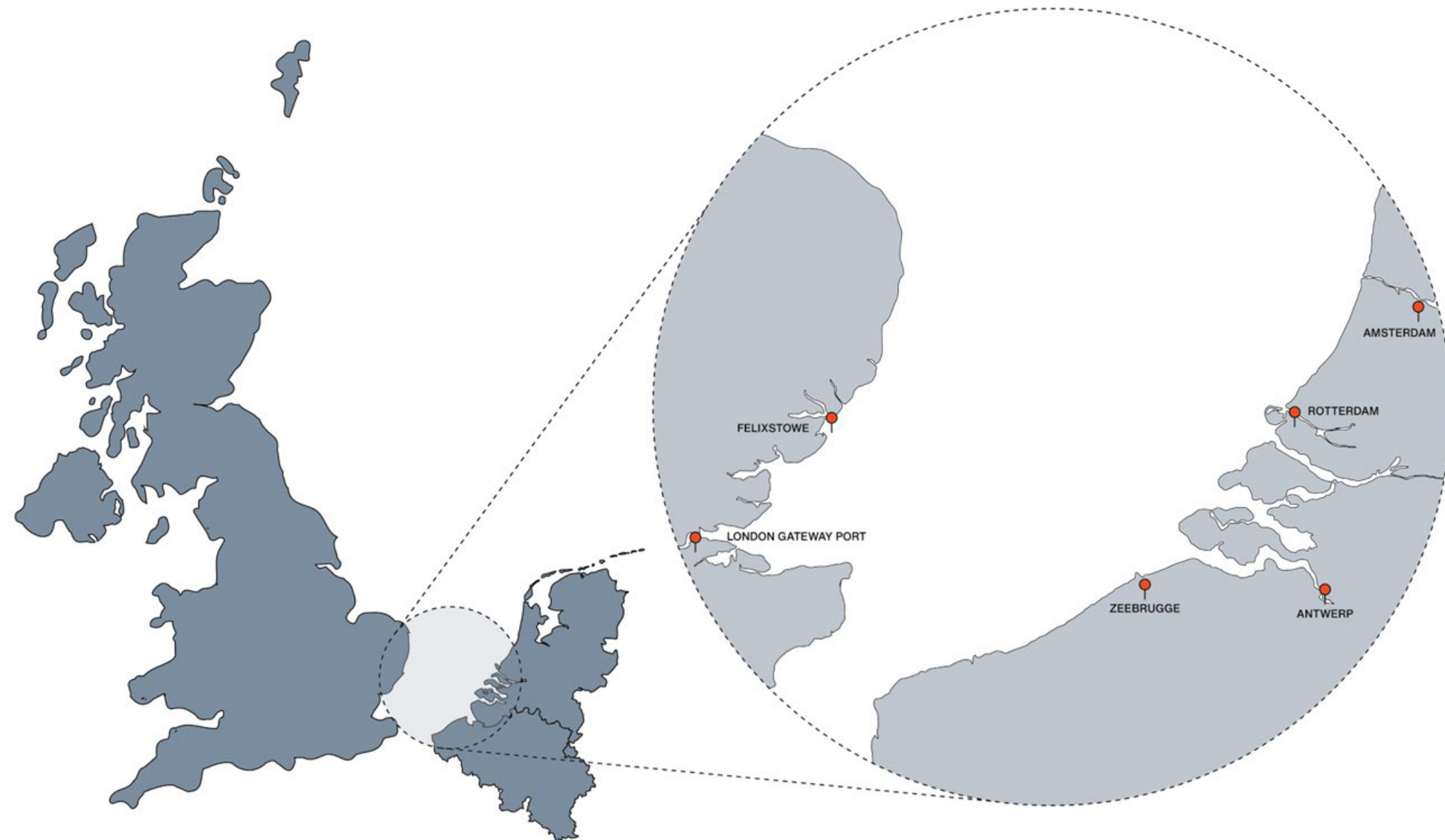


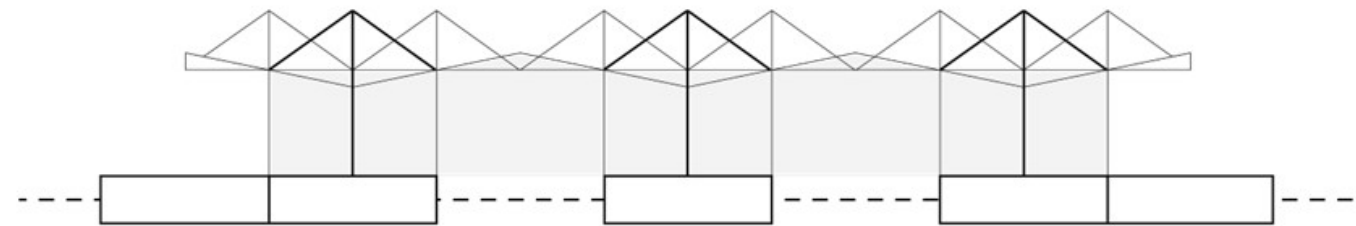
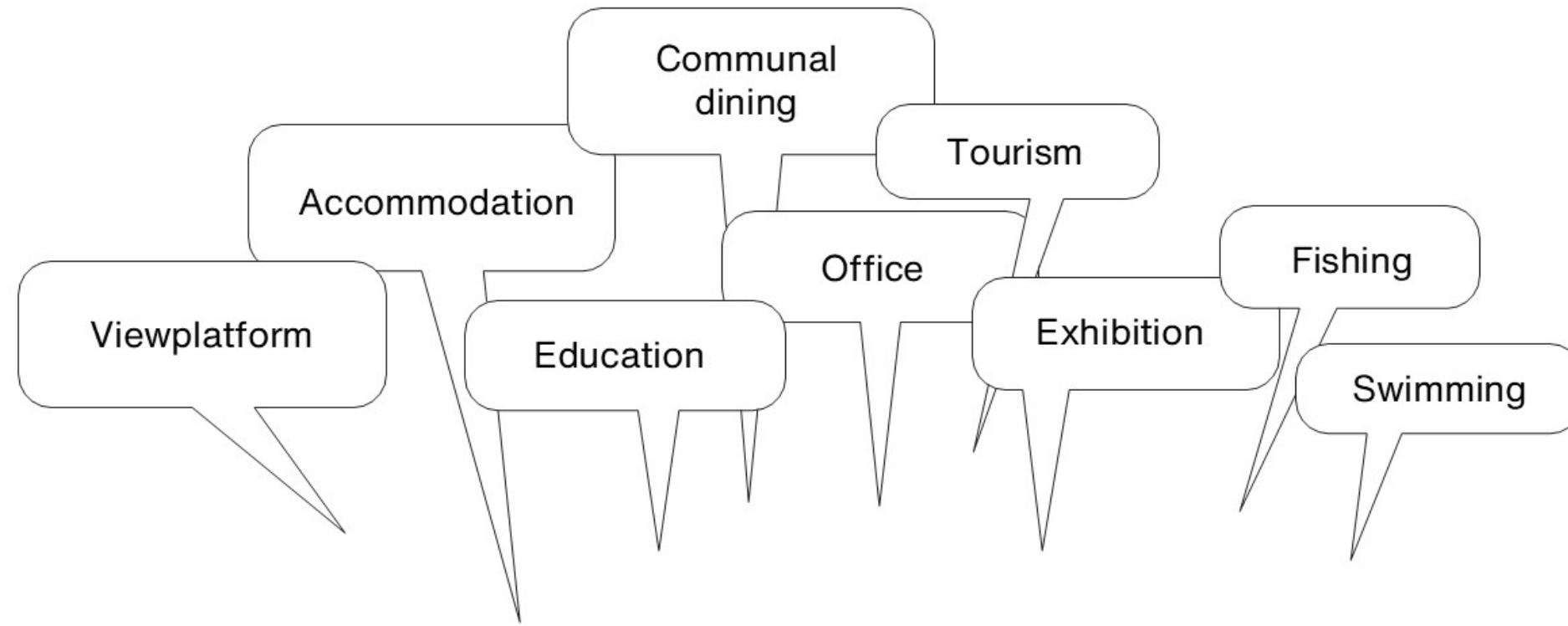
SCALABILITY

ADDED

MOVED

EXPANDED



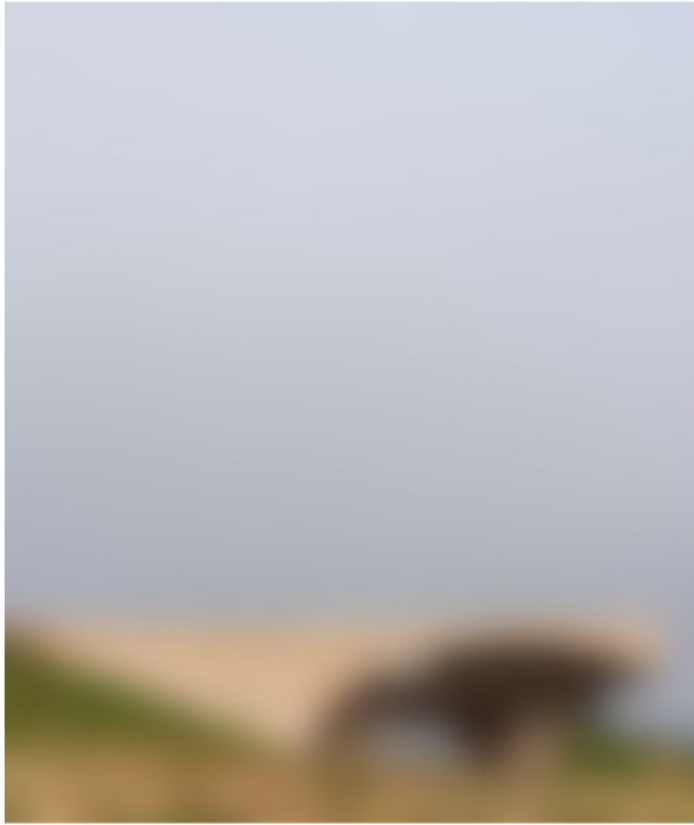






SITE SPECIFIC





**SITE
SPECIFIC?**





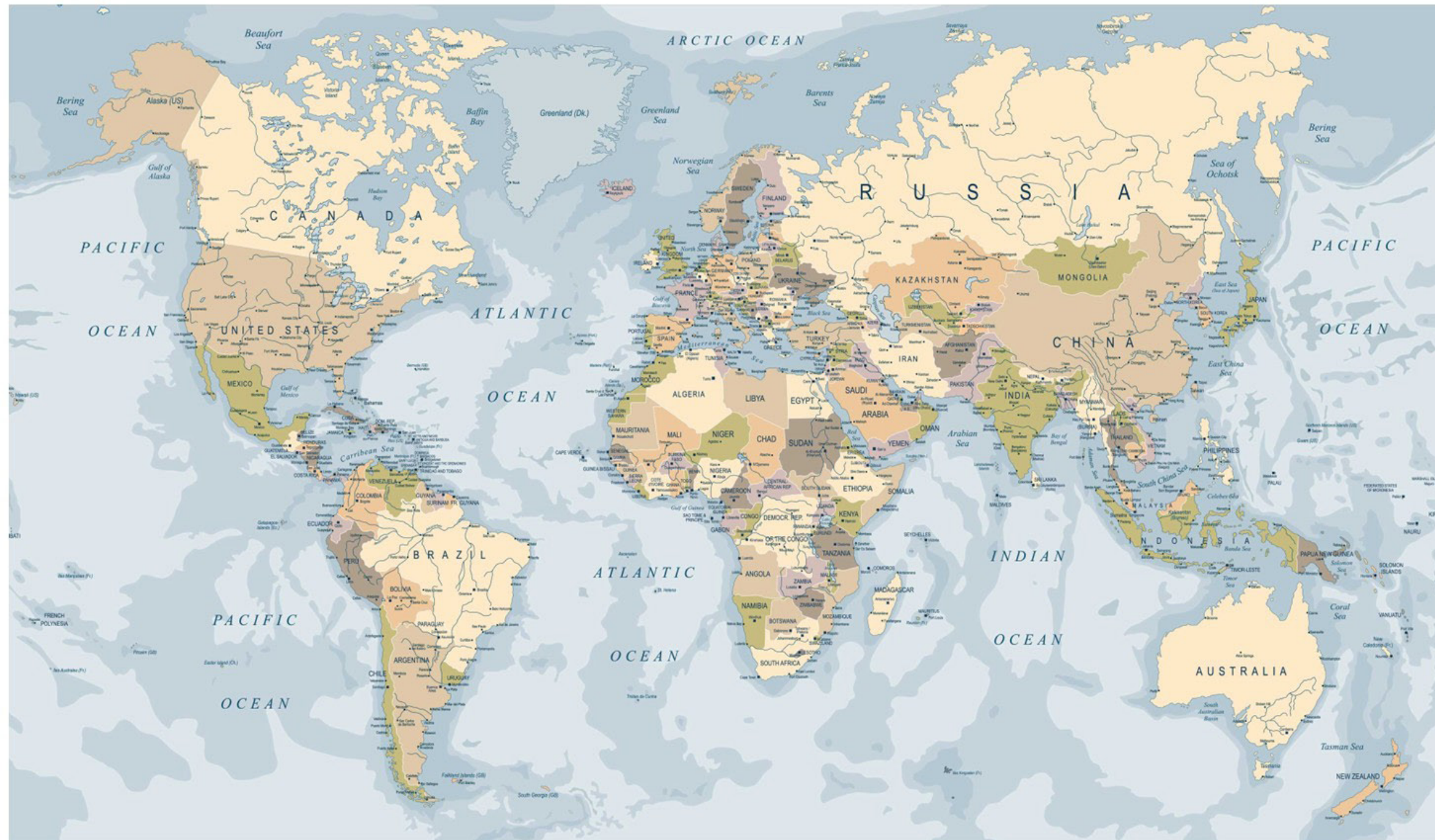
This project is not **site-specific**. It is **system-specific**.

scale, program, structure, environmental strategies

derived from the logic of offshore port operations

What can only exist here?

What must exist everywhere?



System specific doesn't mean location is irrelevant.

It means it is **flexible**, but still **intentional**.

Floating Haven

Floating Haven



Structure

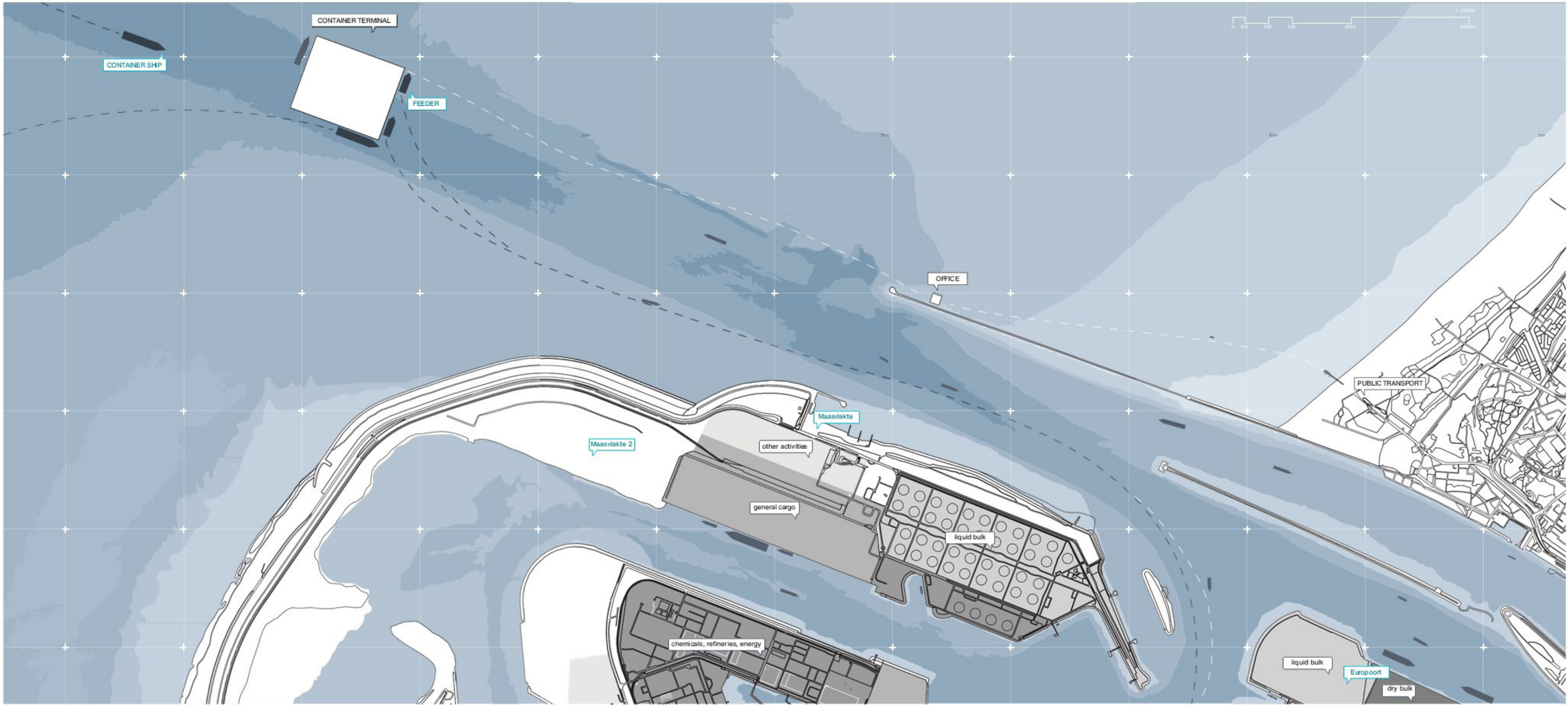


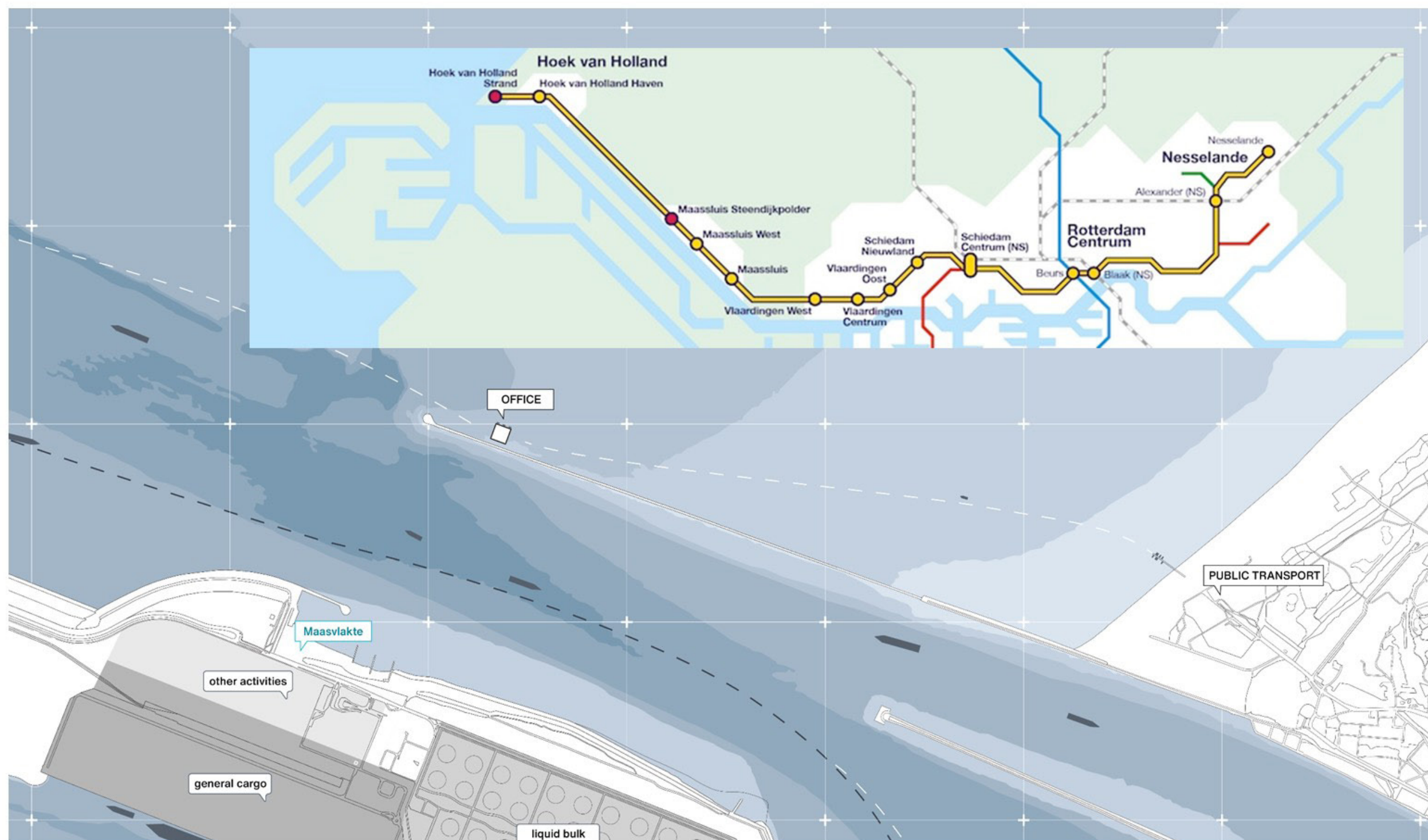
Sustainability



Façade

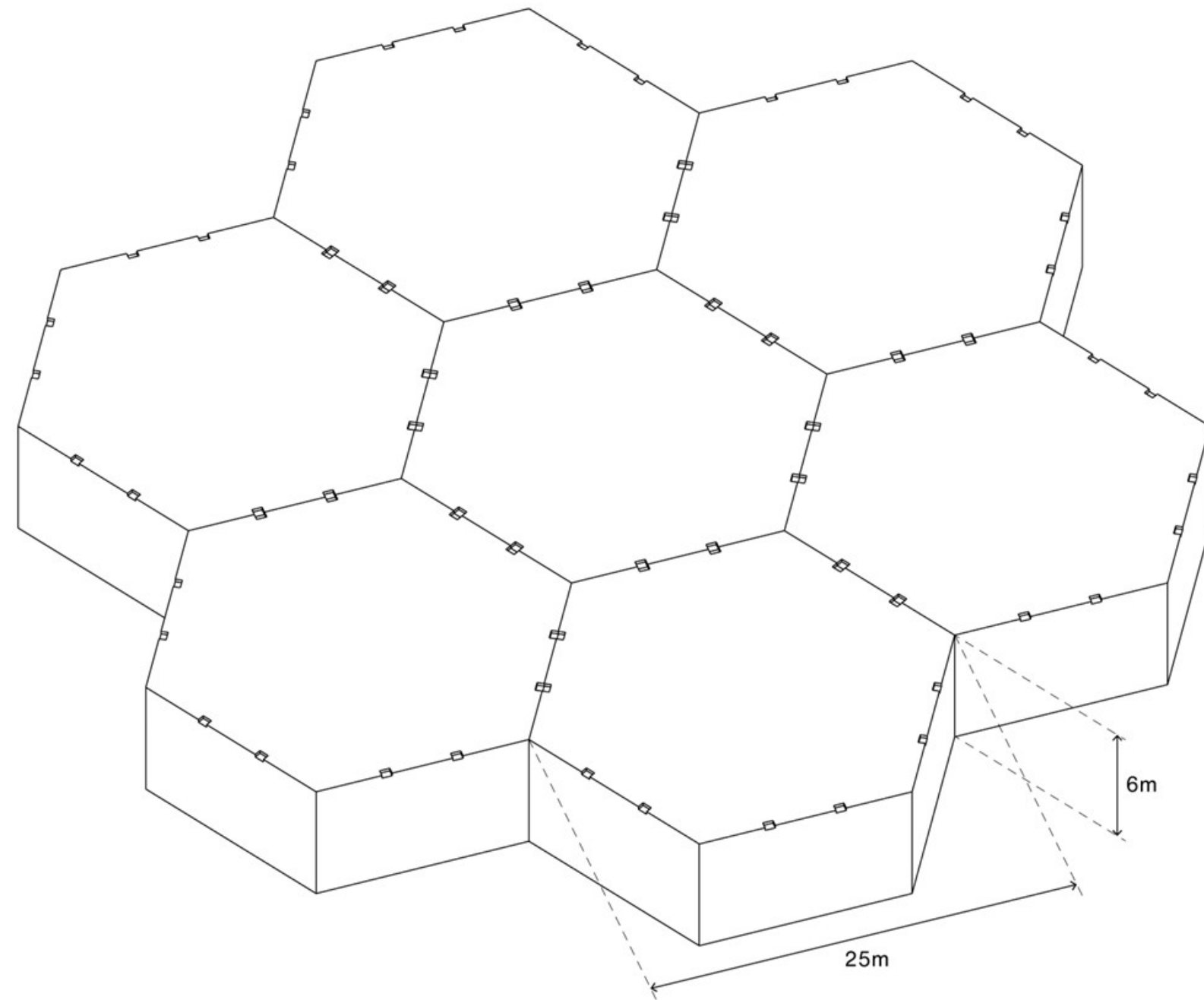


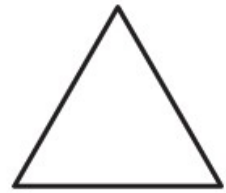






coming from the land





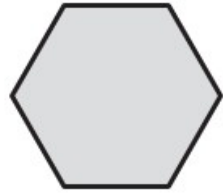
triangular

14%



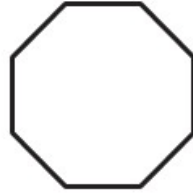
squared

23.22%



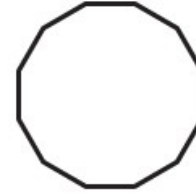
hexagonal

25.31%



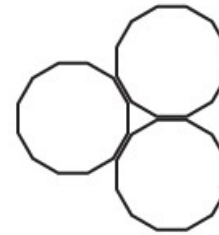
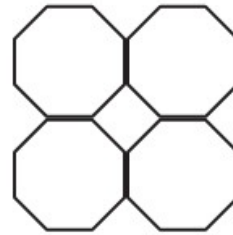
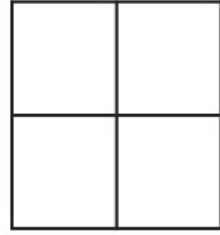
octagonal

14.15%



dodecagonal

23.29%



EL-Shihy, A. A. (2024). A new approach for configuring modular floating cities: assessing modular floating platforms by means of analytic hierarchy process. City, Territory and Architecture, 11(1). <https://doi.org/10.1186/s40410-024-00228-6>

SEA KEEPING

- offer superior wave resistance and structural stability

MODULARITY

- allows infinite expansion with seamless interlocking

SPACE UTILIZATION

- maximize land use efficiency

MINIMIZED GAP

- connect tightly to adjacent modules without leaving unused spaces

SIX-DIRECTIONAL CONNECTIVITY

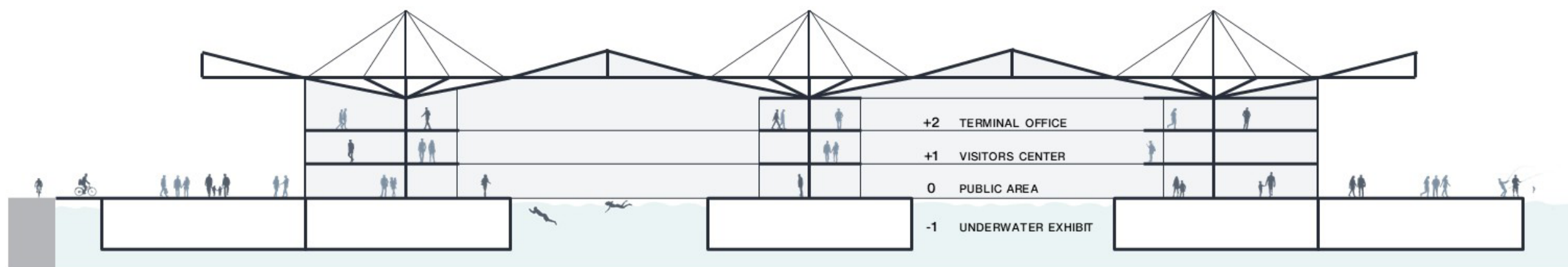
- enable flexible layouts and efficient circulation

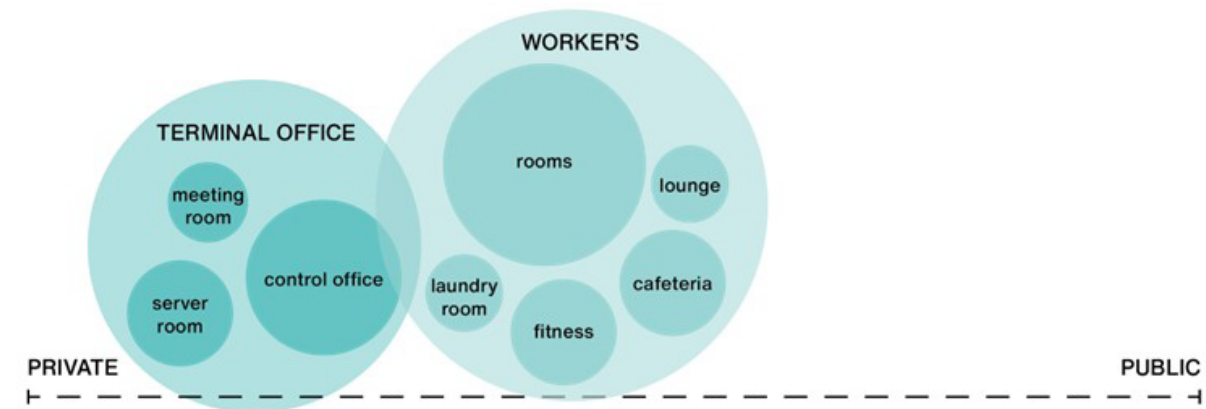
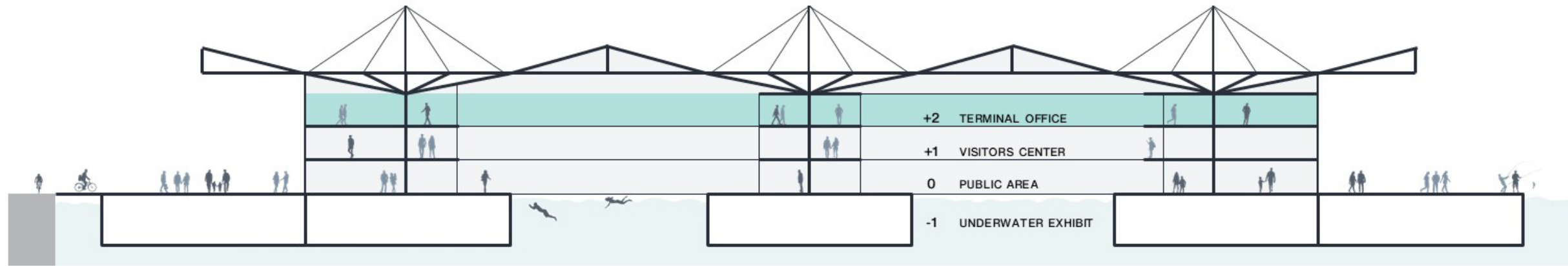
COST EFFICIENCY

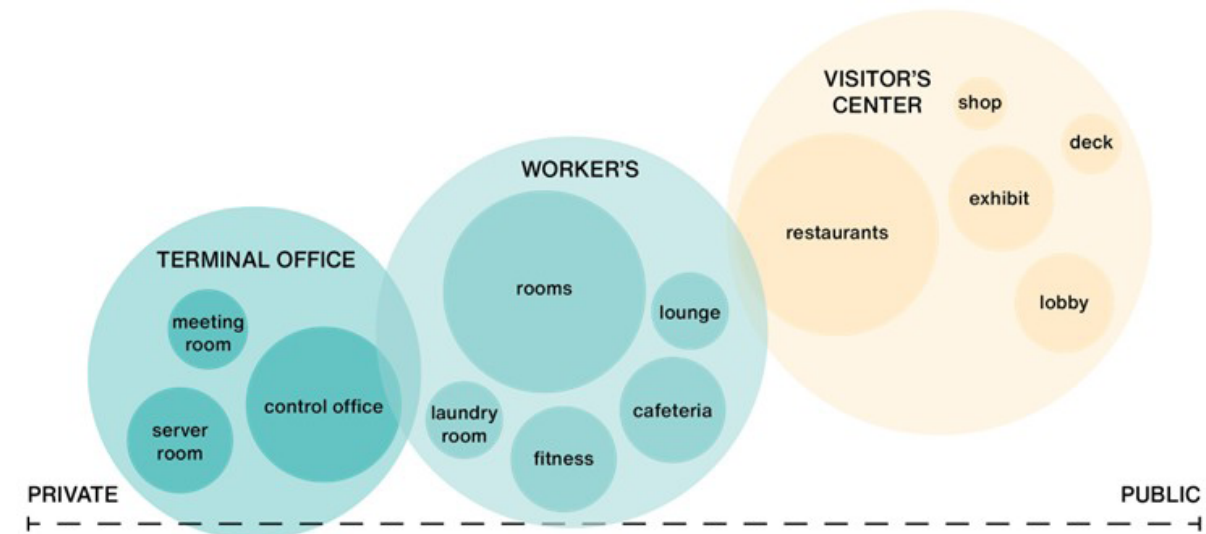
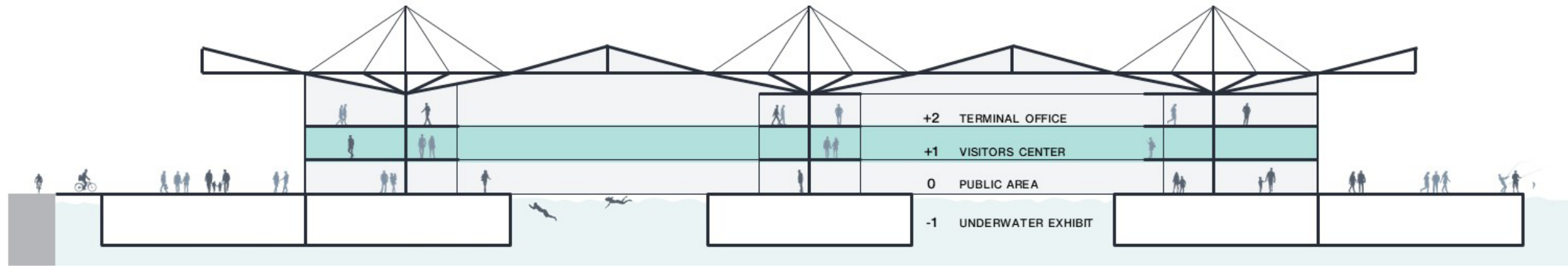
- expansion costs are reduced by up to 23% compared to other shapes

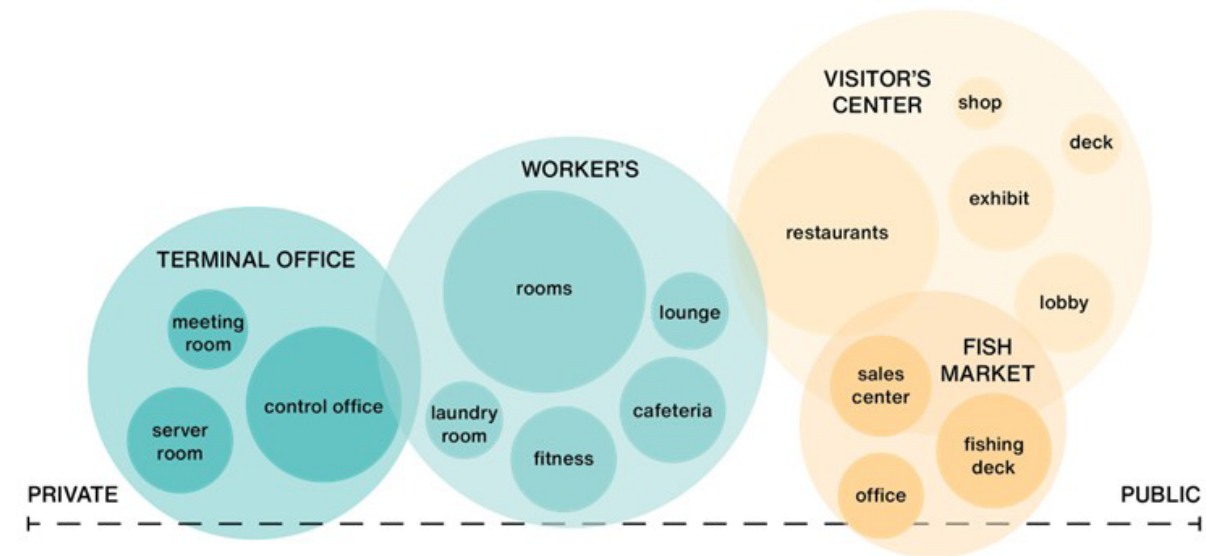
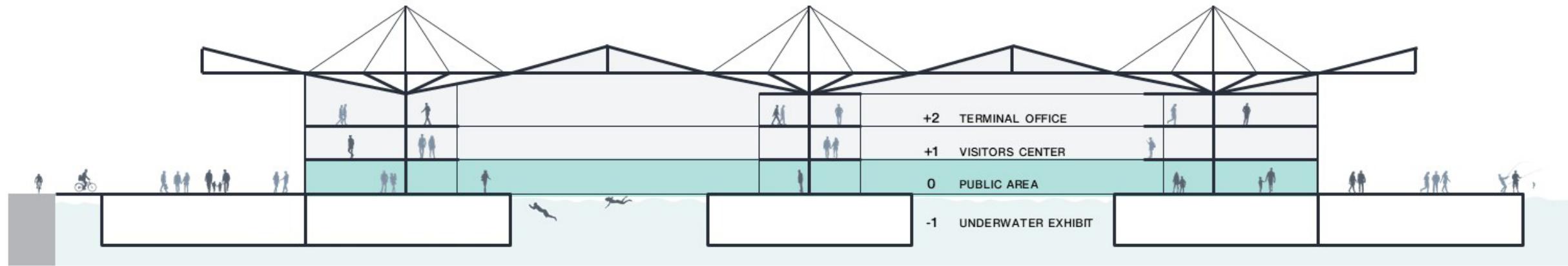
STANDARDIZED PRODUCTION

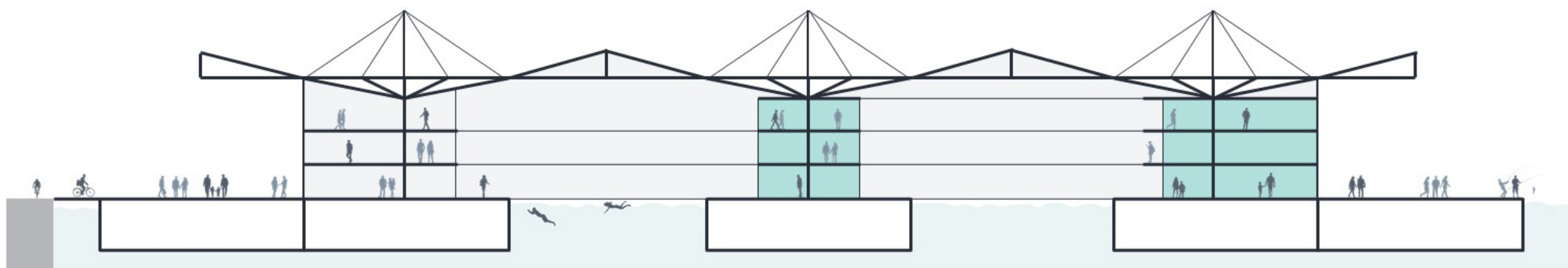
- manufacturing time is reduced by 37%, enhancing scalability

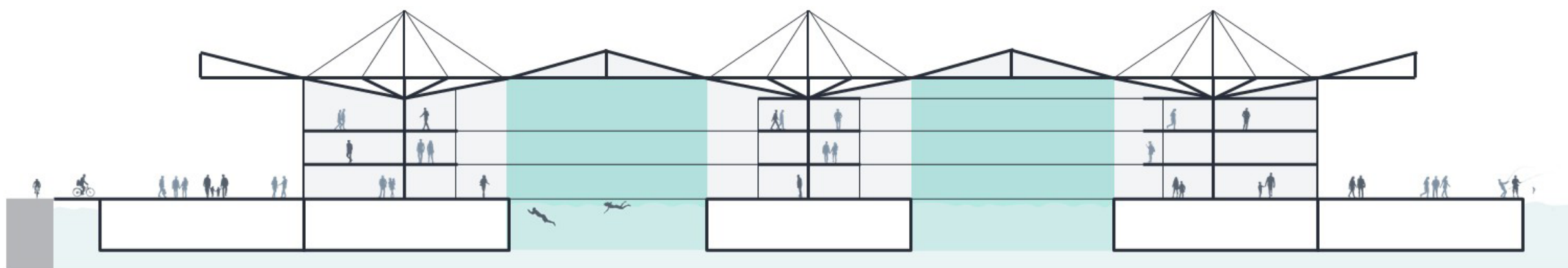


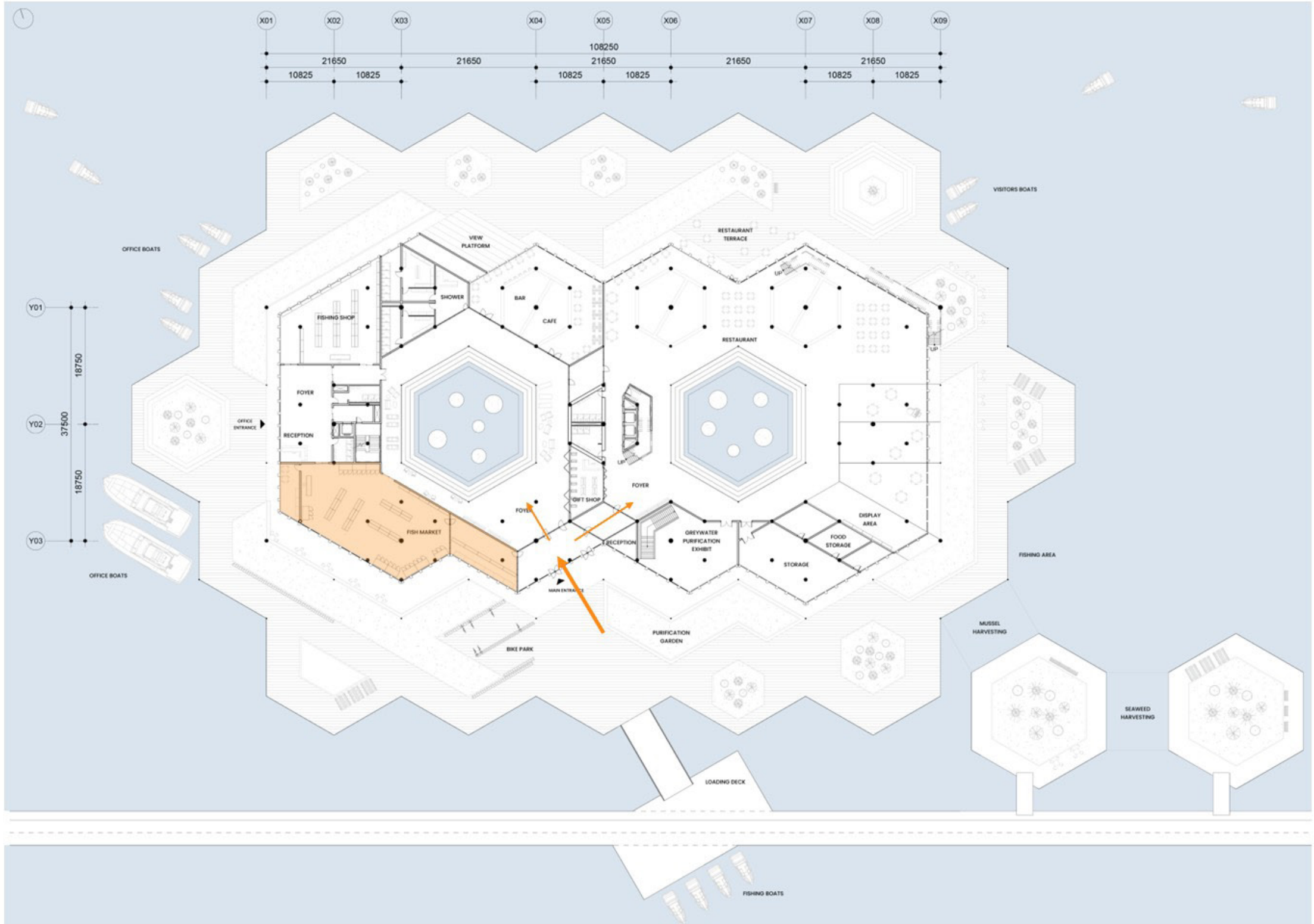












Species

There might be more species you can catch in this location or in the area, but the current page and description focusses on these fish species.

Sea bass

Dicentrarchus Labrax



Sea Trout

Salmo Trutta Trutta



Freshwater



Saltwater



Twaid shad

Alosa Fallax



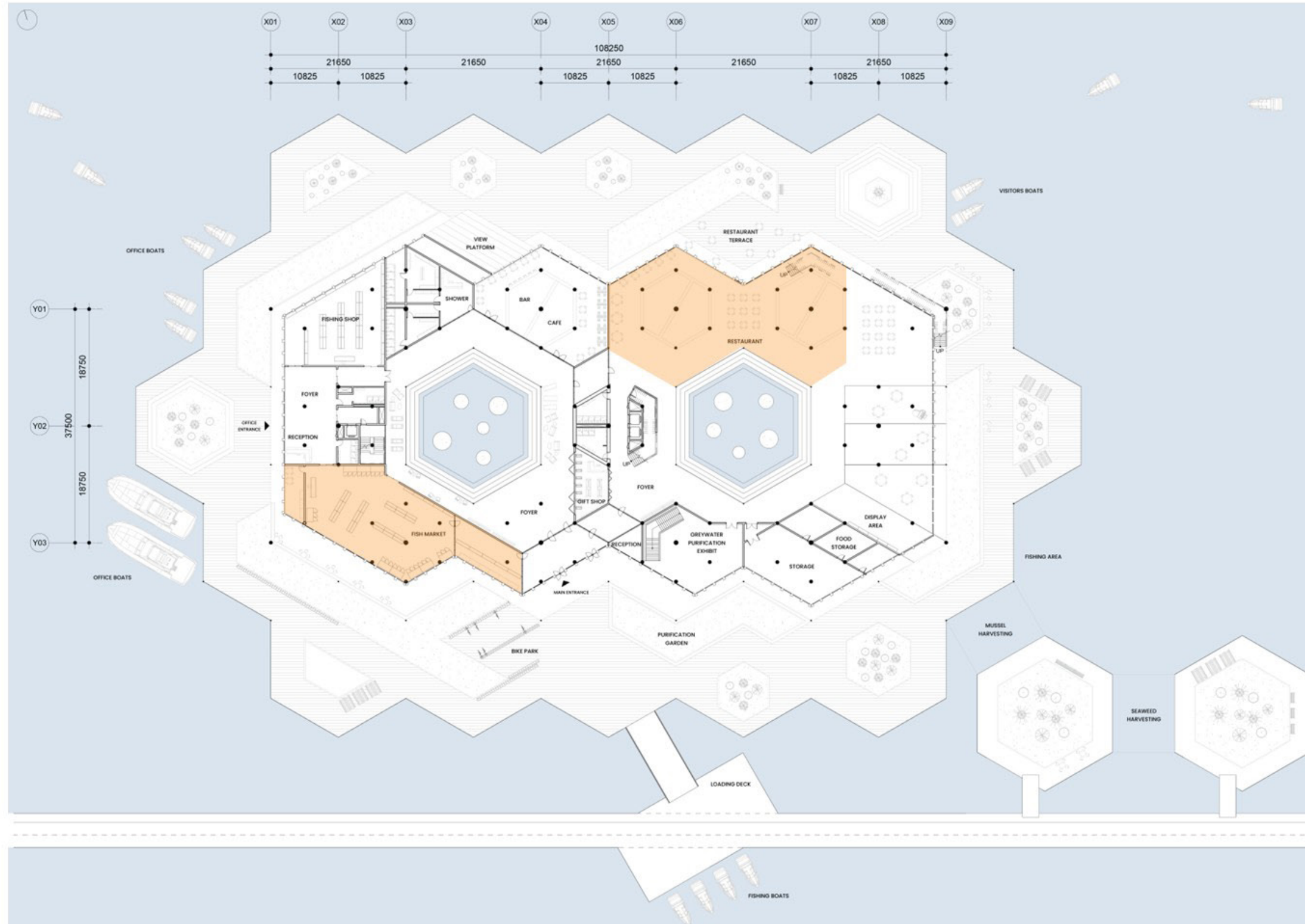
Saltwater

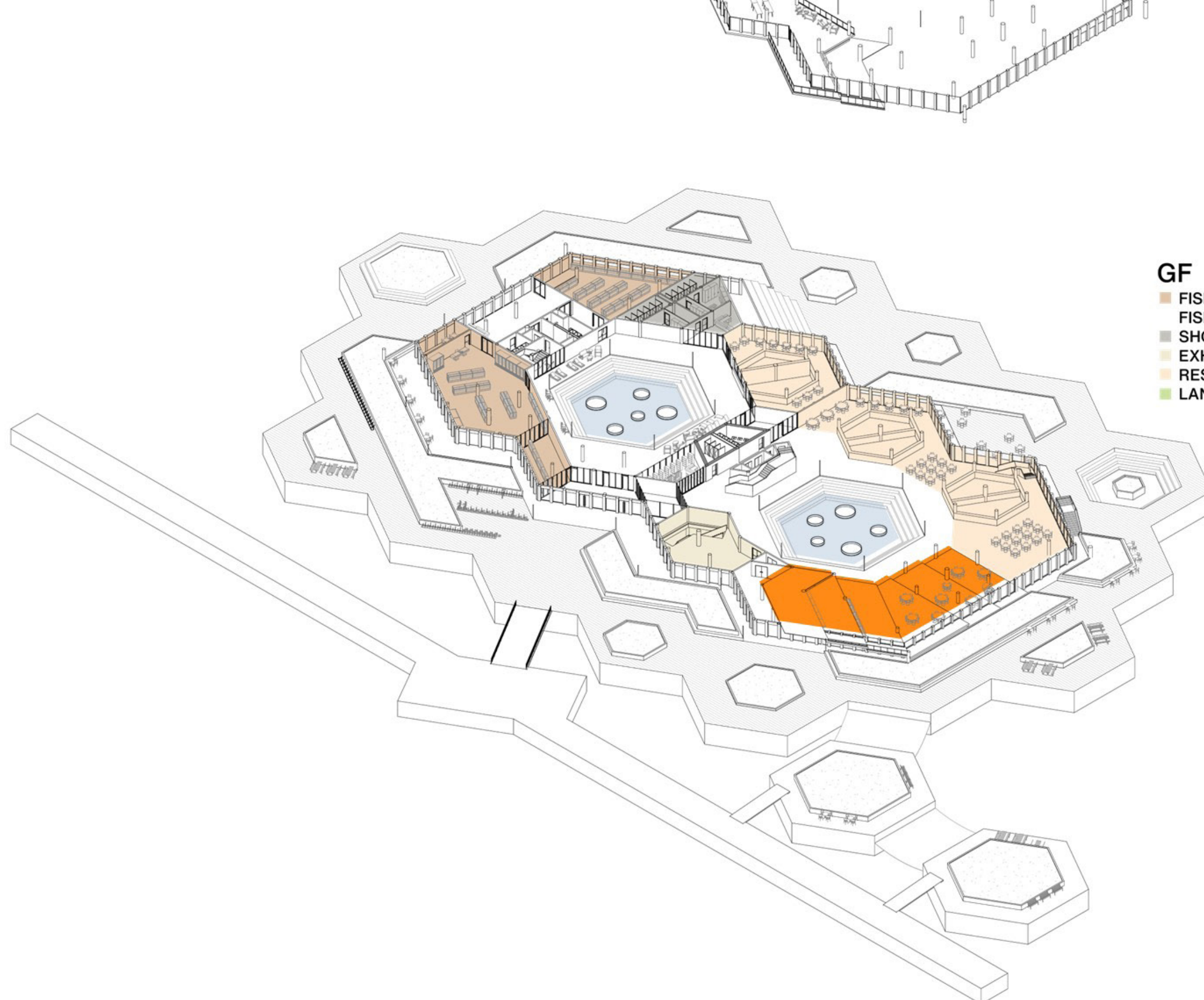


fishing zone nearby



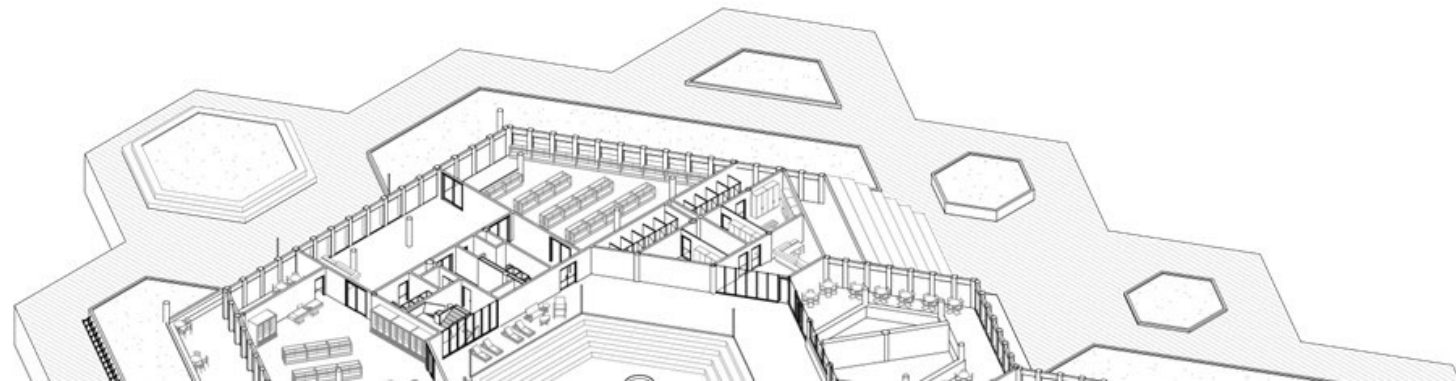
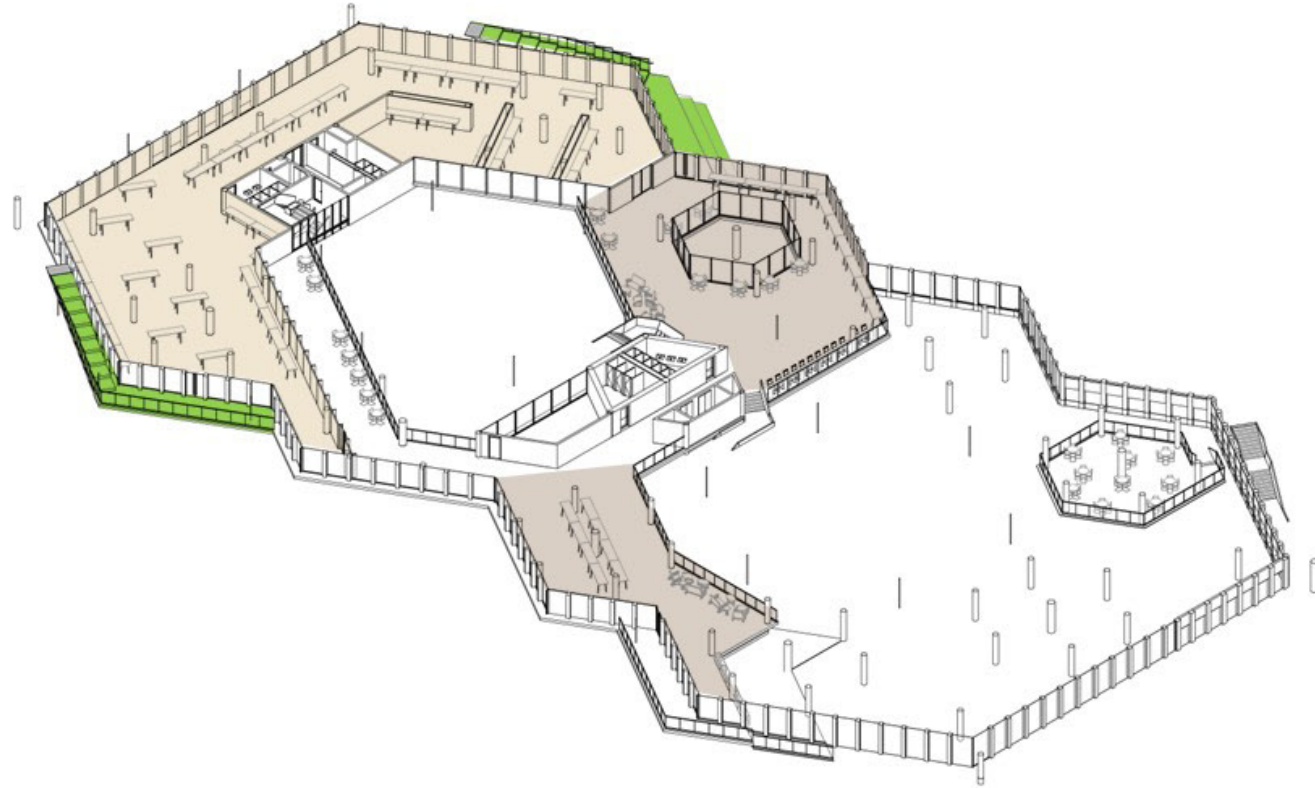
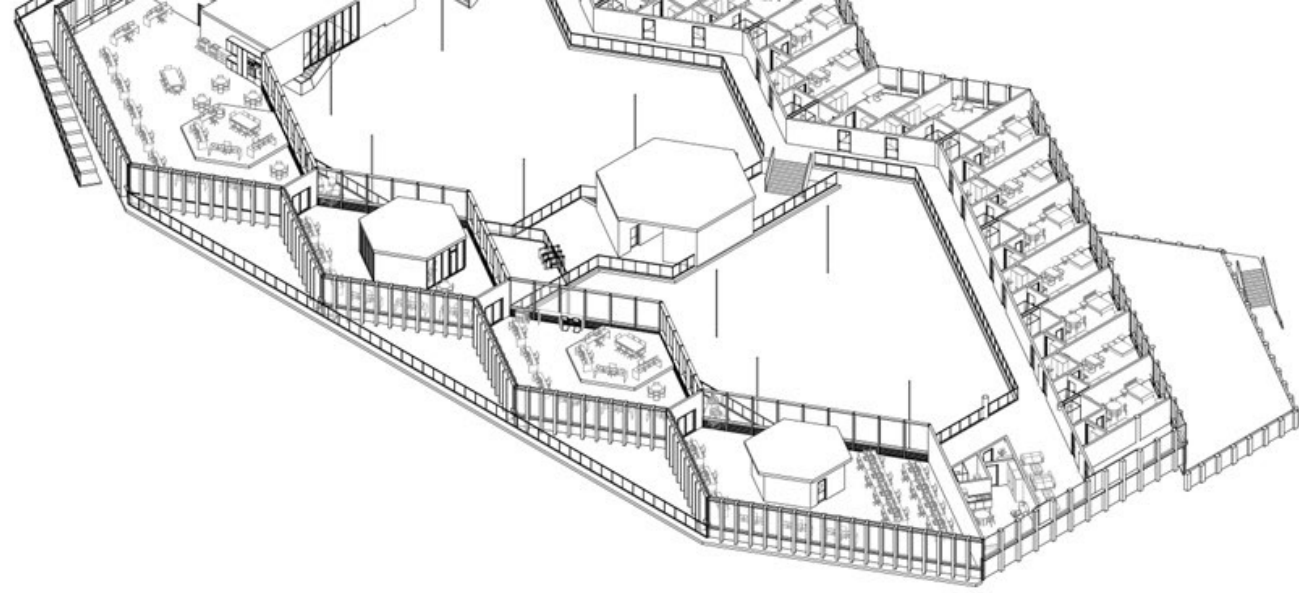
view from the fishing zone

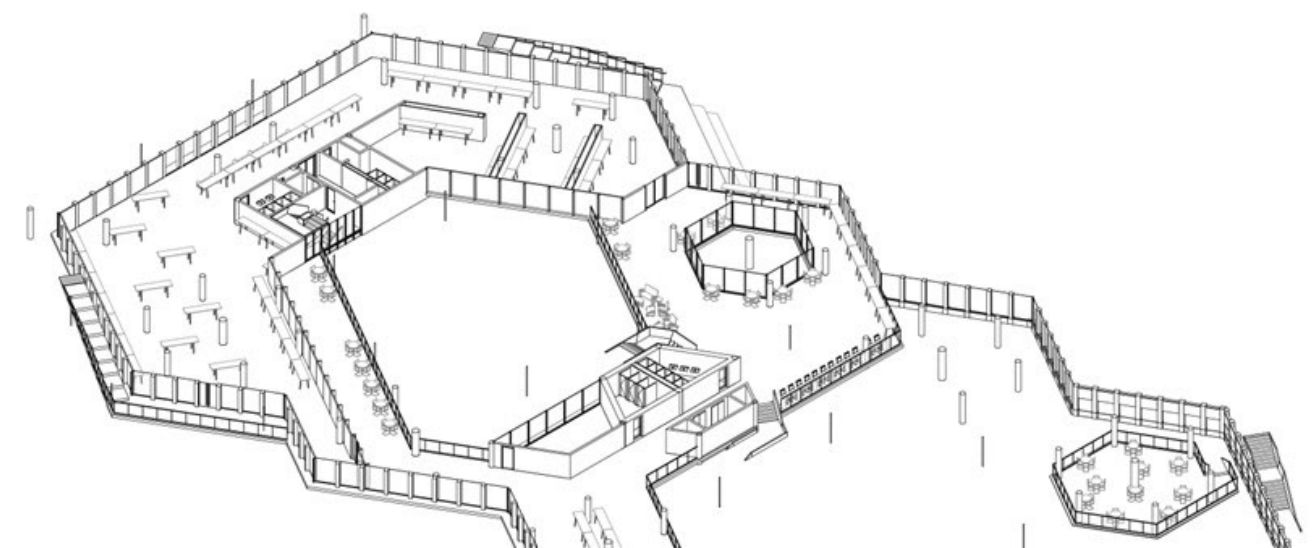
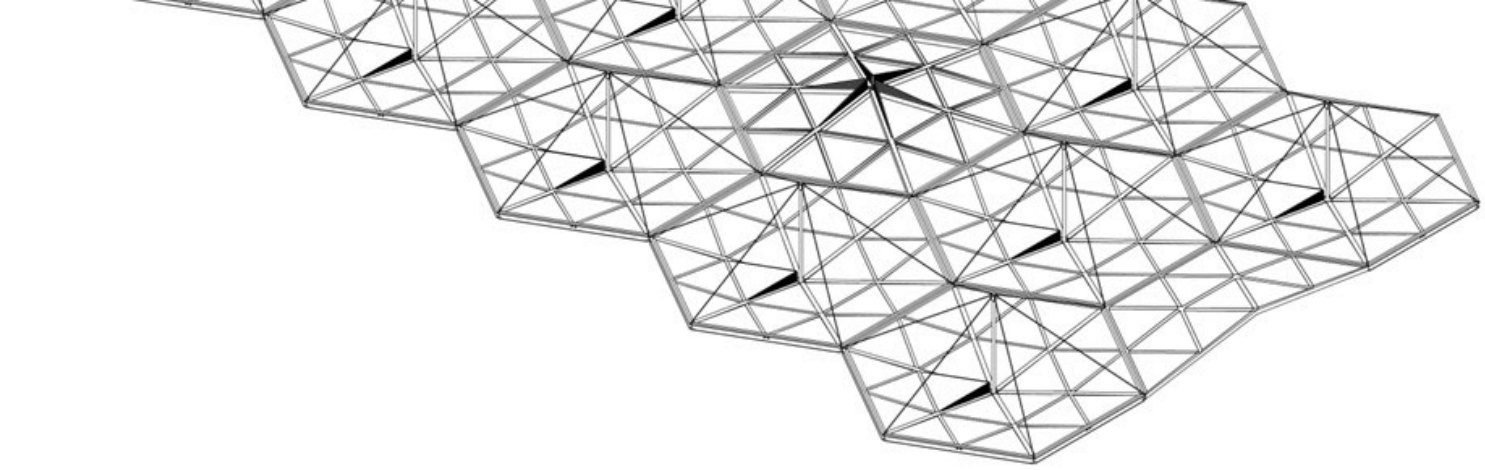




GF

- FISH MARKET
- FISH SHOP
- SHOWER
- EXHIBIT
- RESTAURANT
- LANDSCAPE



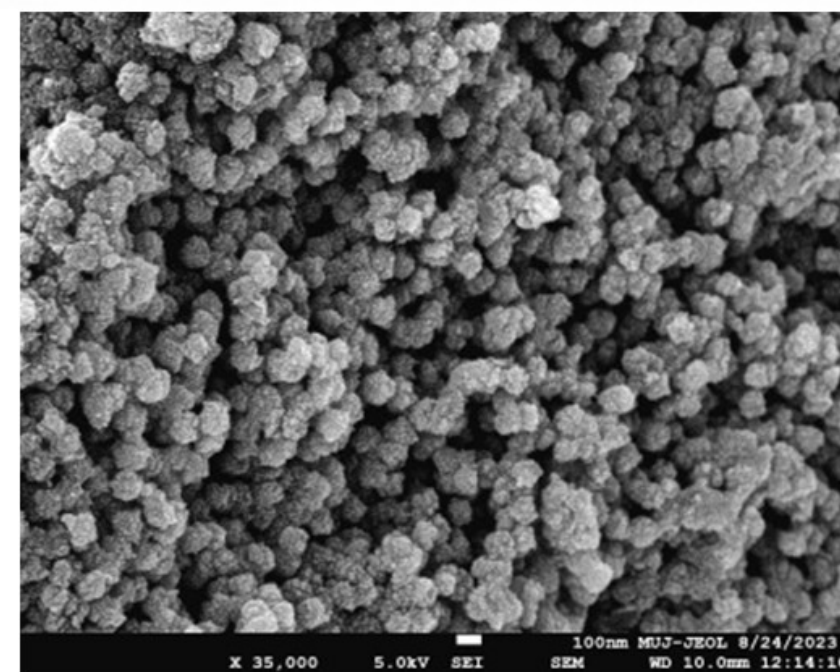
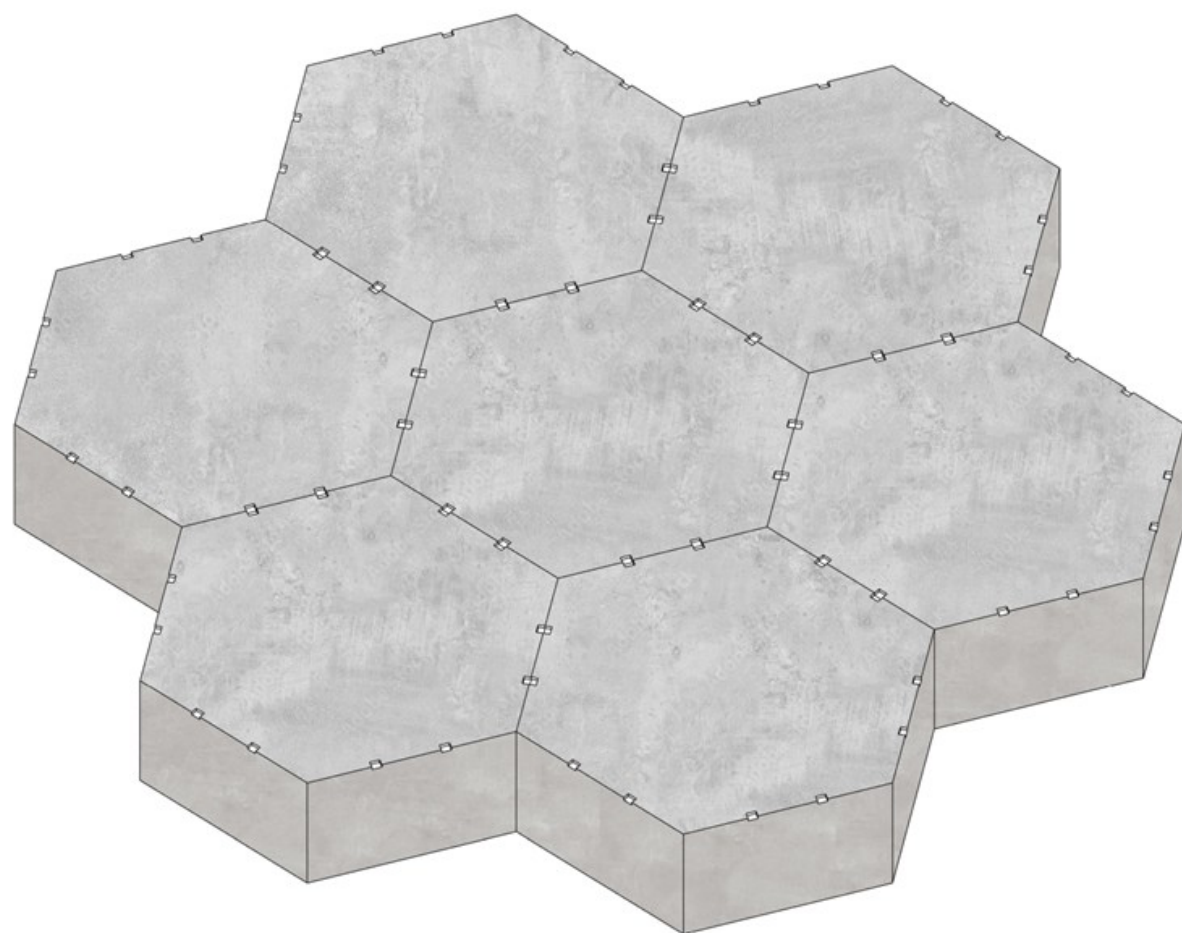


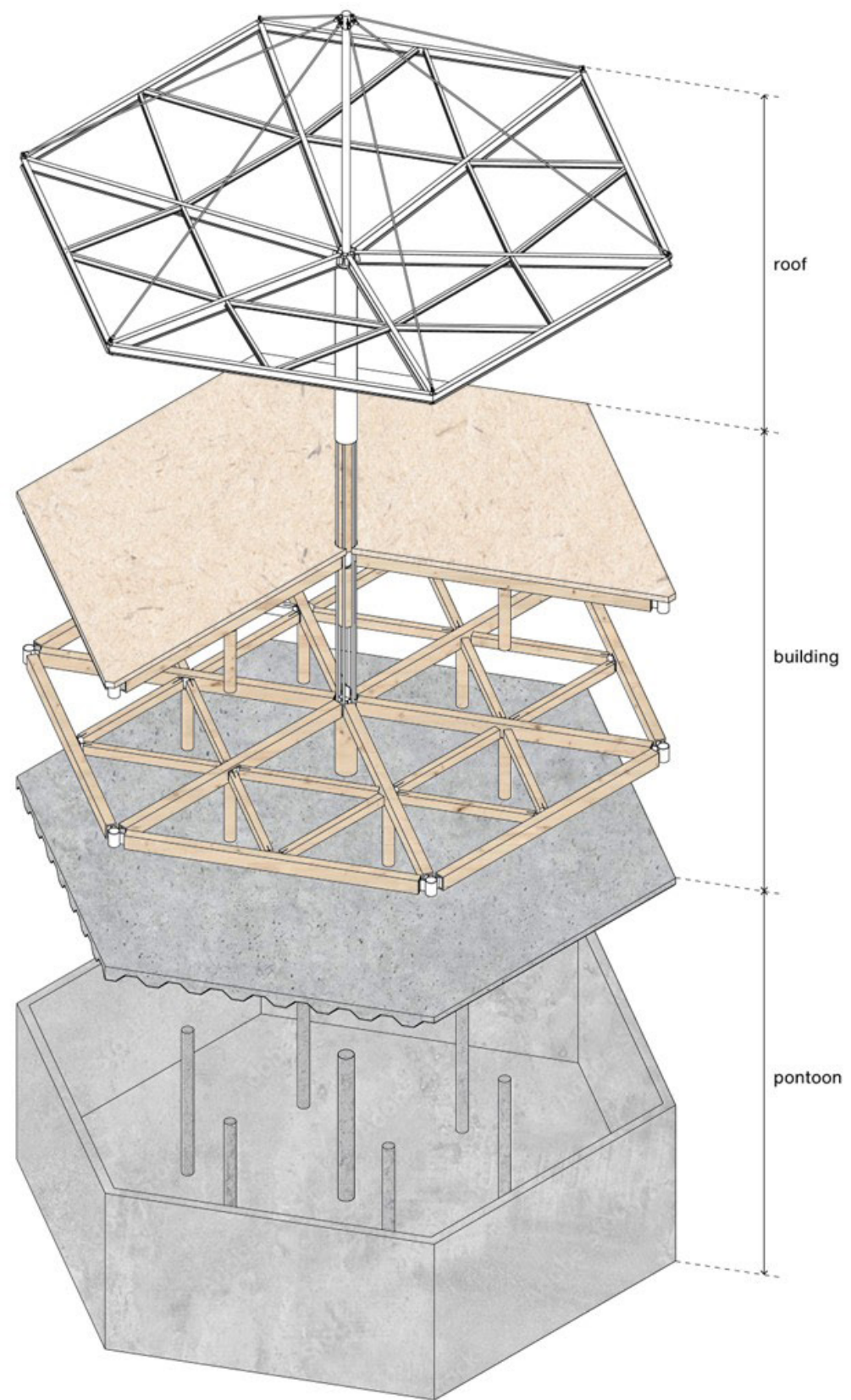


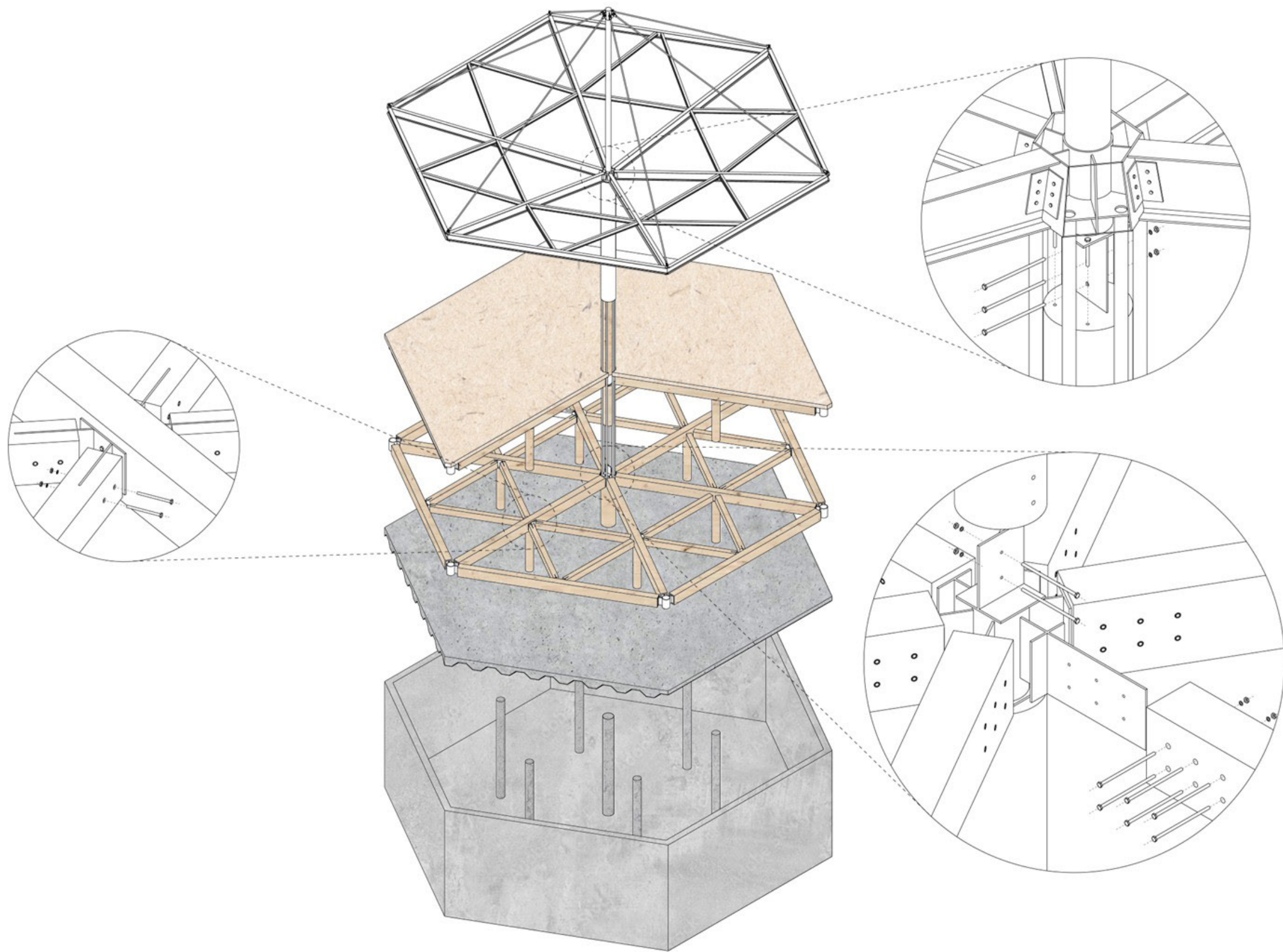
view from exhibition space

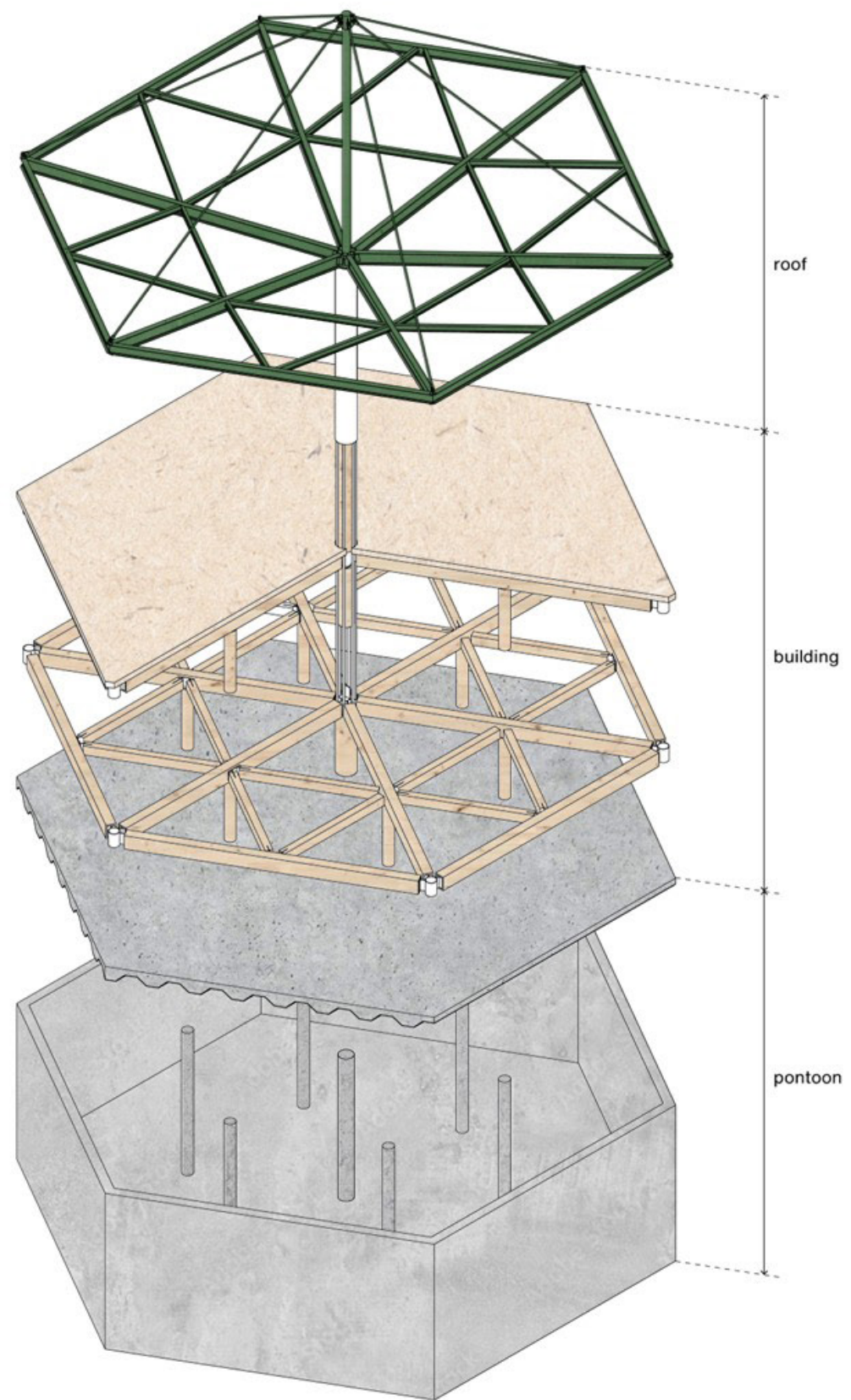
Structure





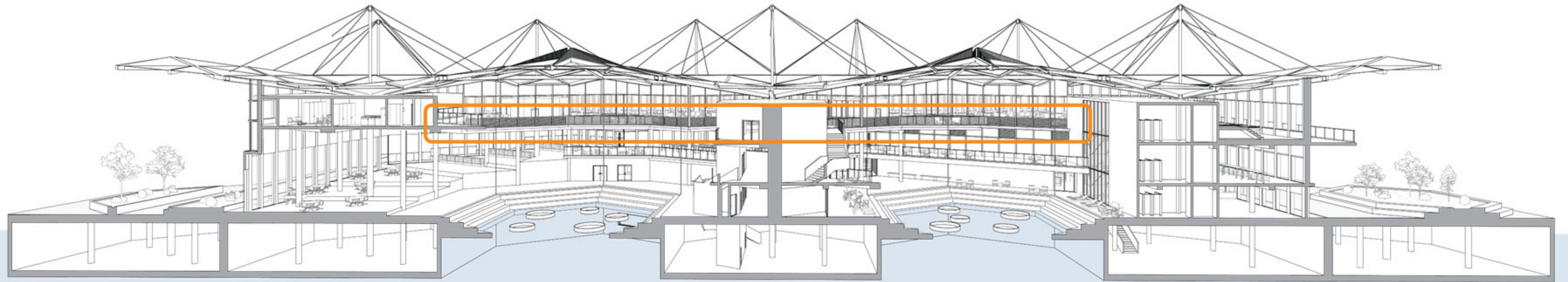
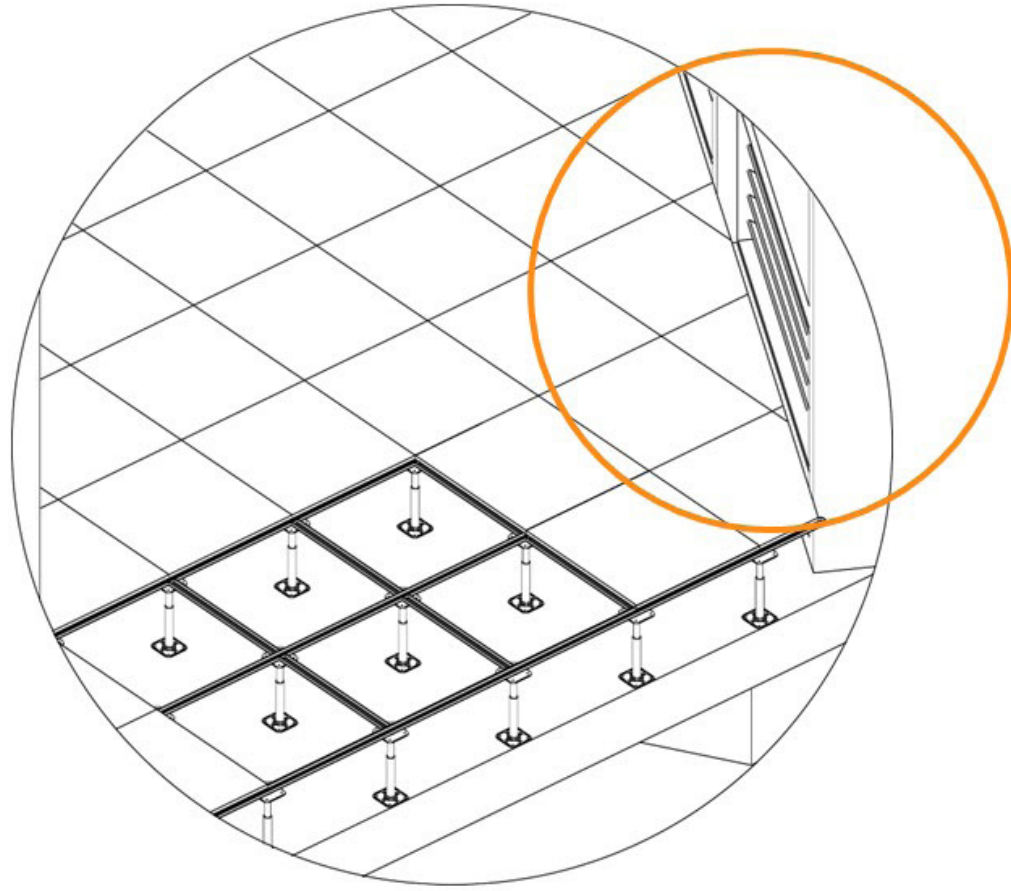


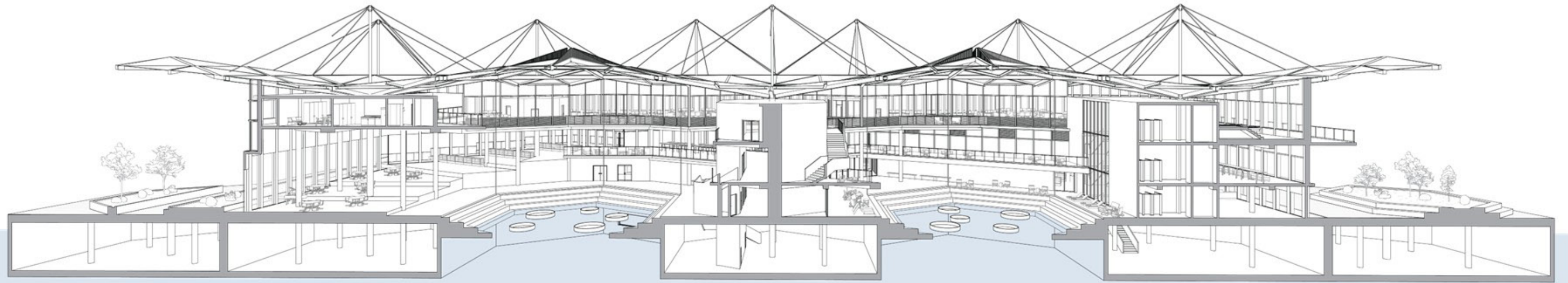
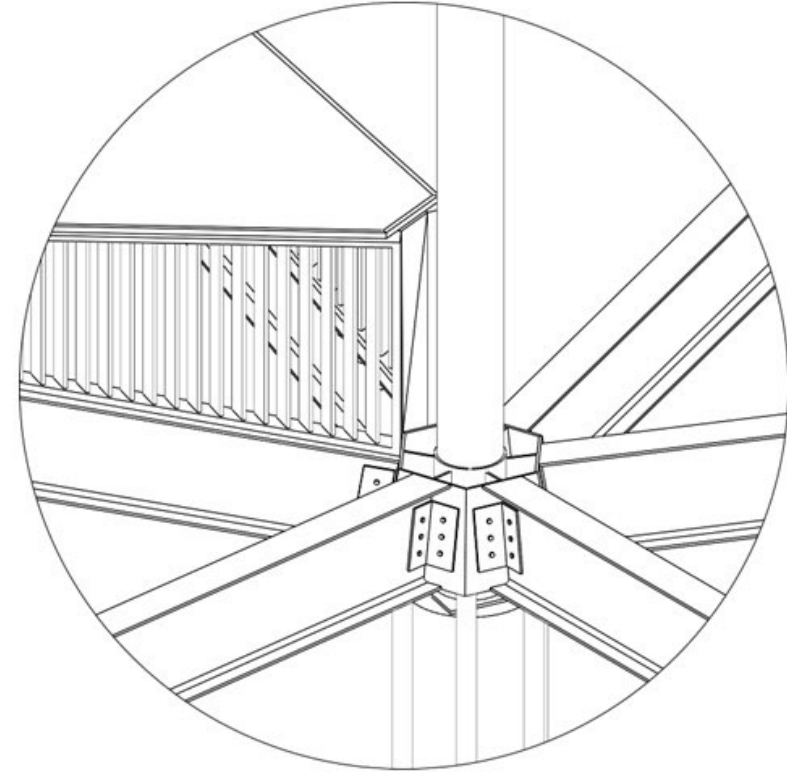
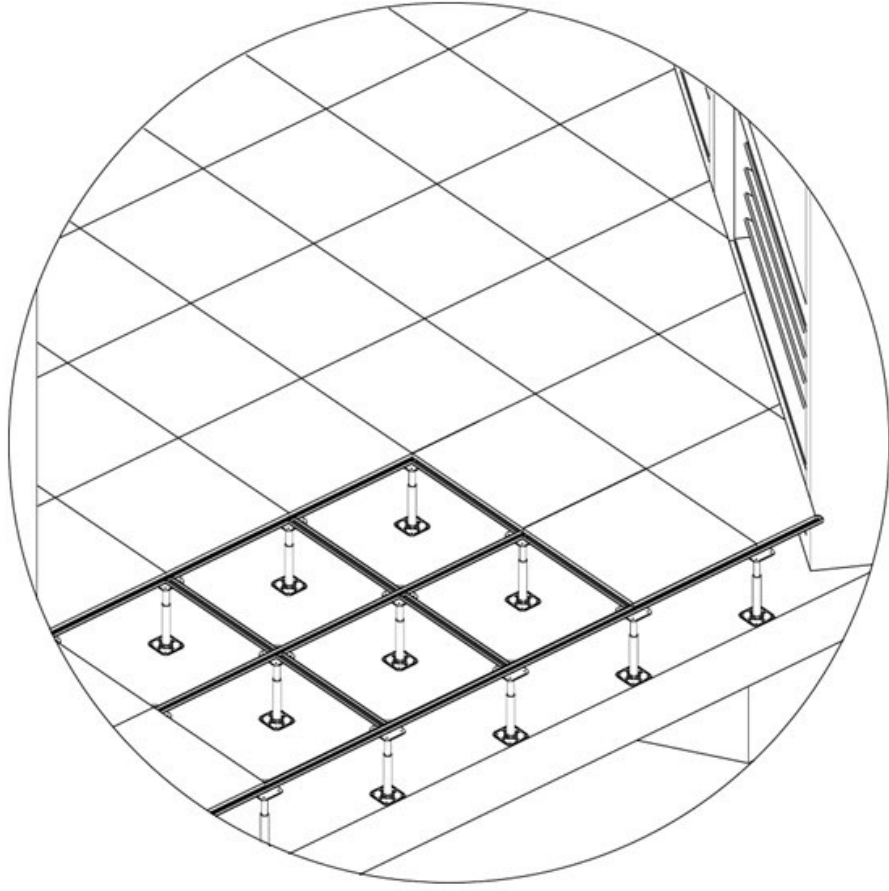


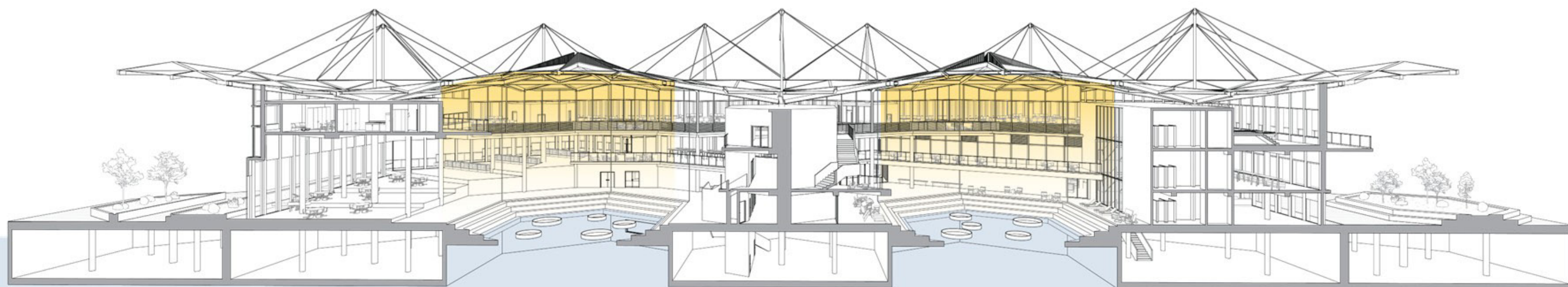




view from restaurants

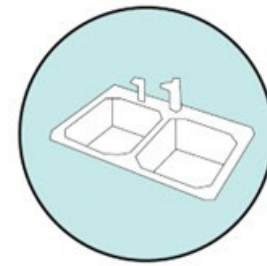
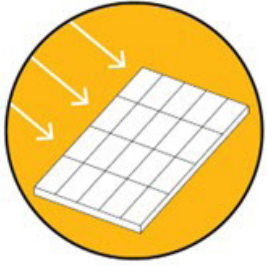


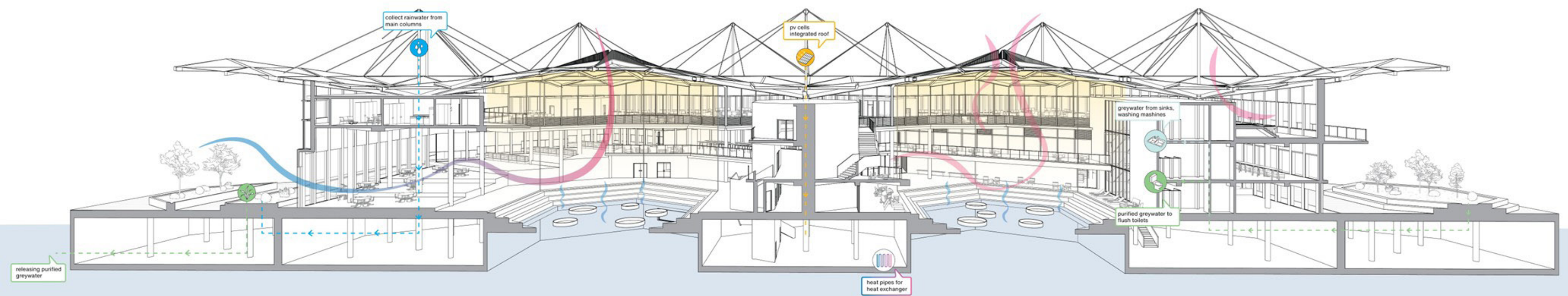


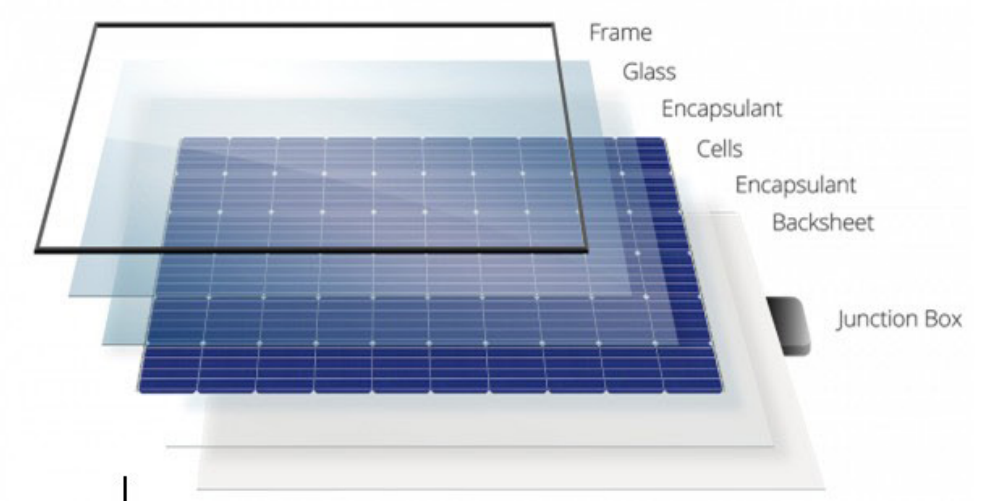
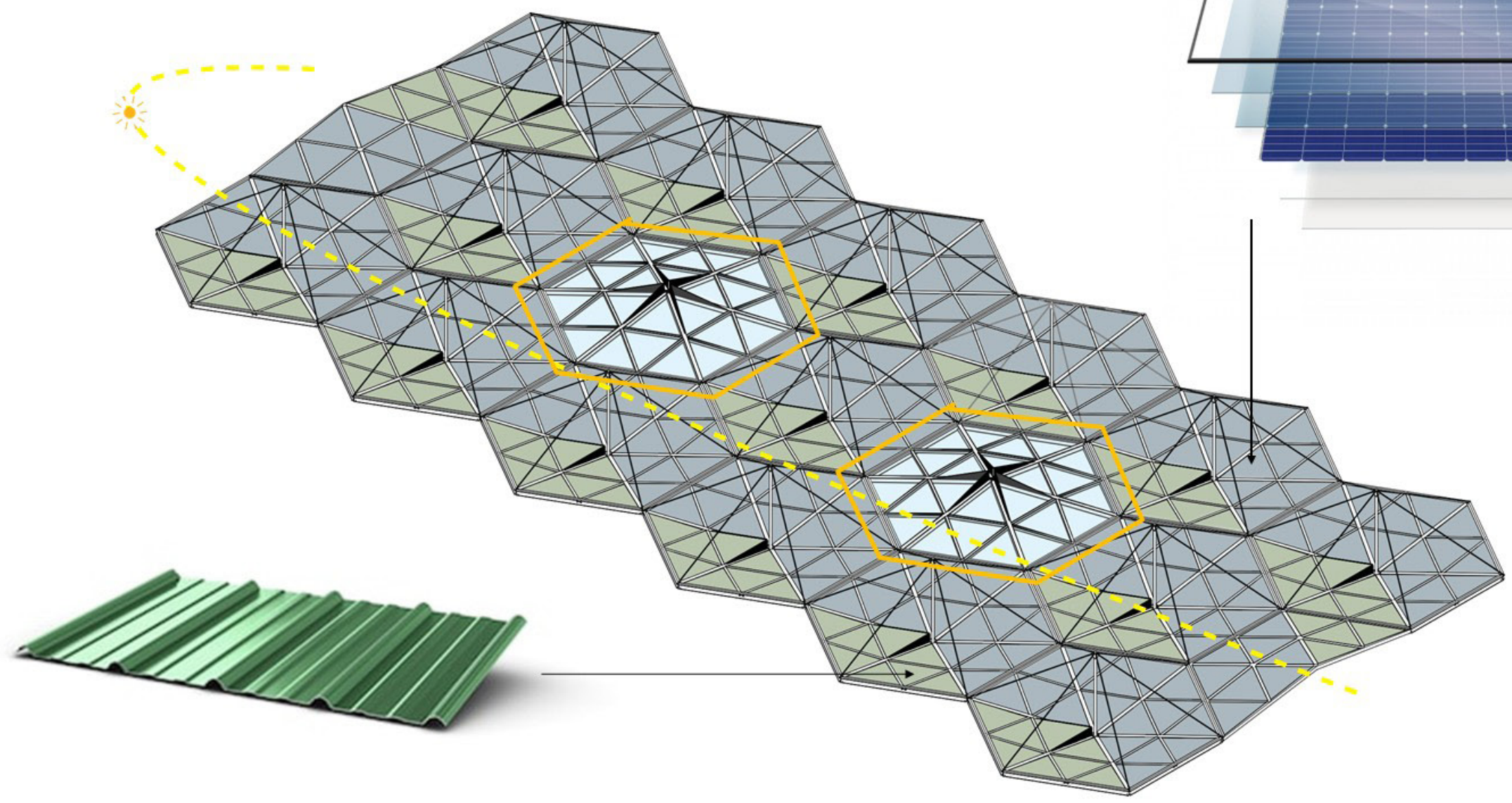


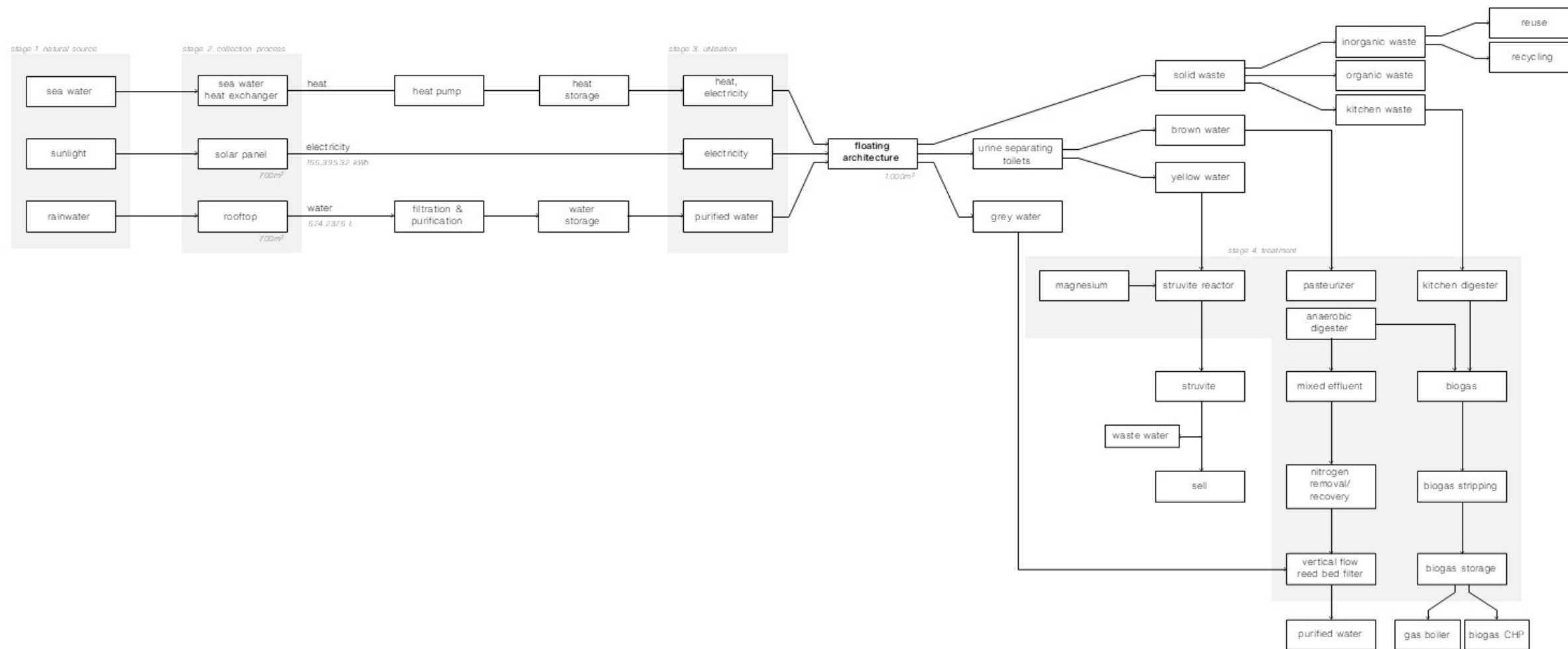
Sustainability and Energy Strategy











Rainwater Collection

$$Q_{\text{year}} = 0.0371 \times 24 \times 365 = 325 \text{ m}^3$$

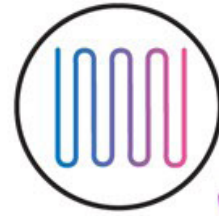
Solar Power

$$E = (13.1 \times 256) \times 0.15 \times 1344.55 \times 0.8 = 541,089.9456 \text{ kWh/year}$$

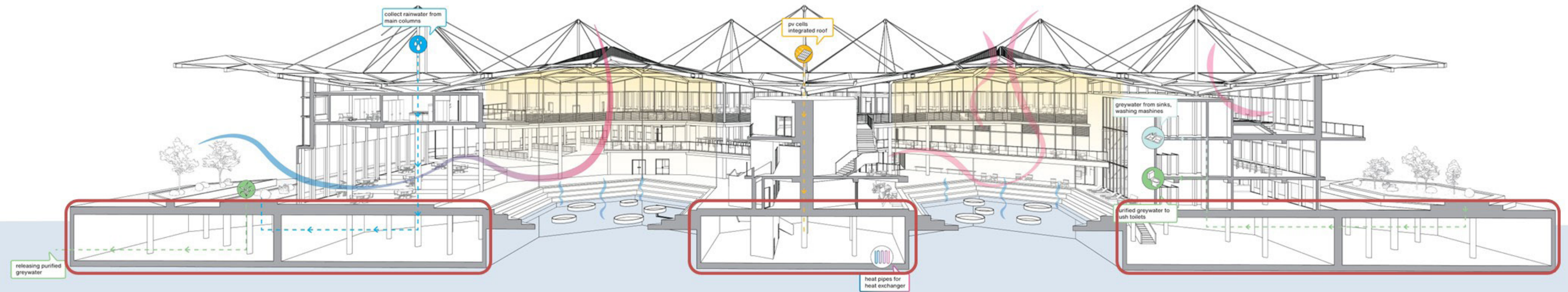
Estimated Annual Electricity Consumption

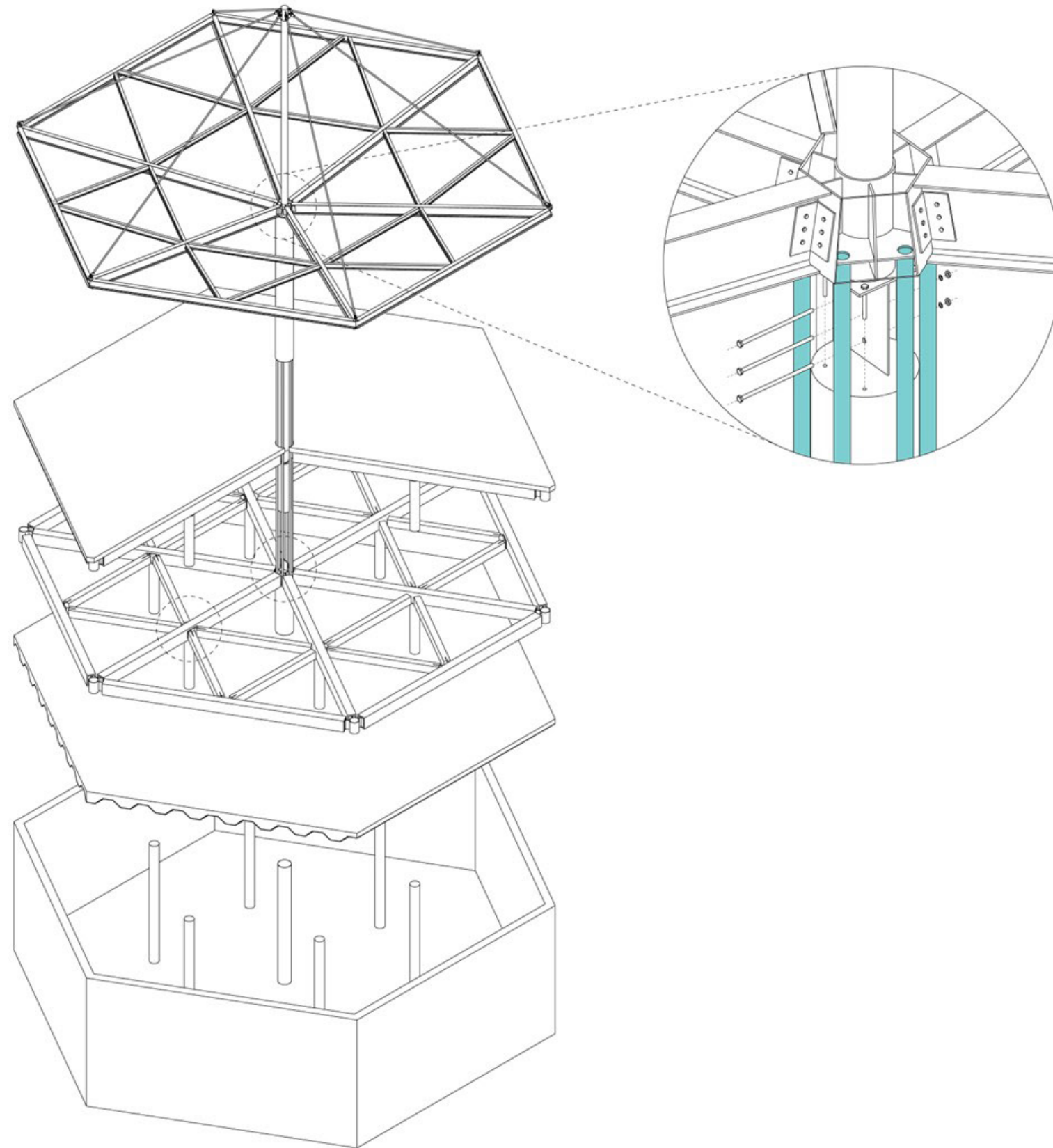
Office: 72,000 ~ 96,000
 Accommodation: 50,000
 Restaurants: 195,000 ~ 260,000
 Cafe and Bar: 20,000
 Exhibitions: 30,000

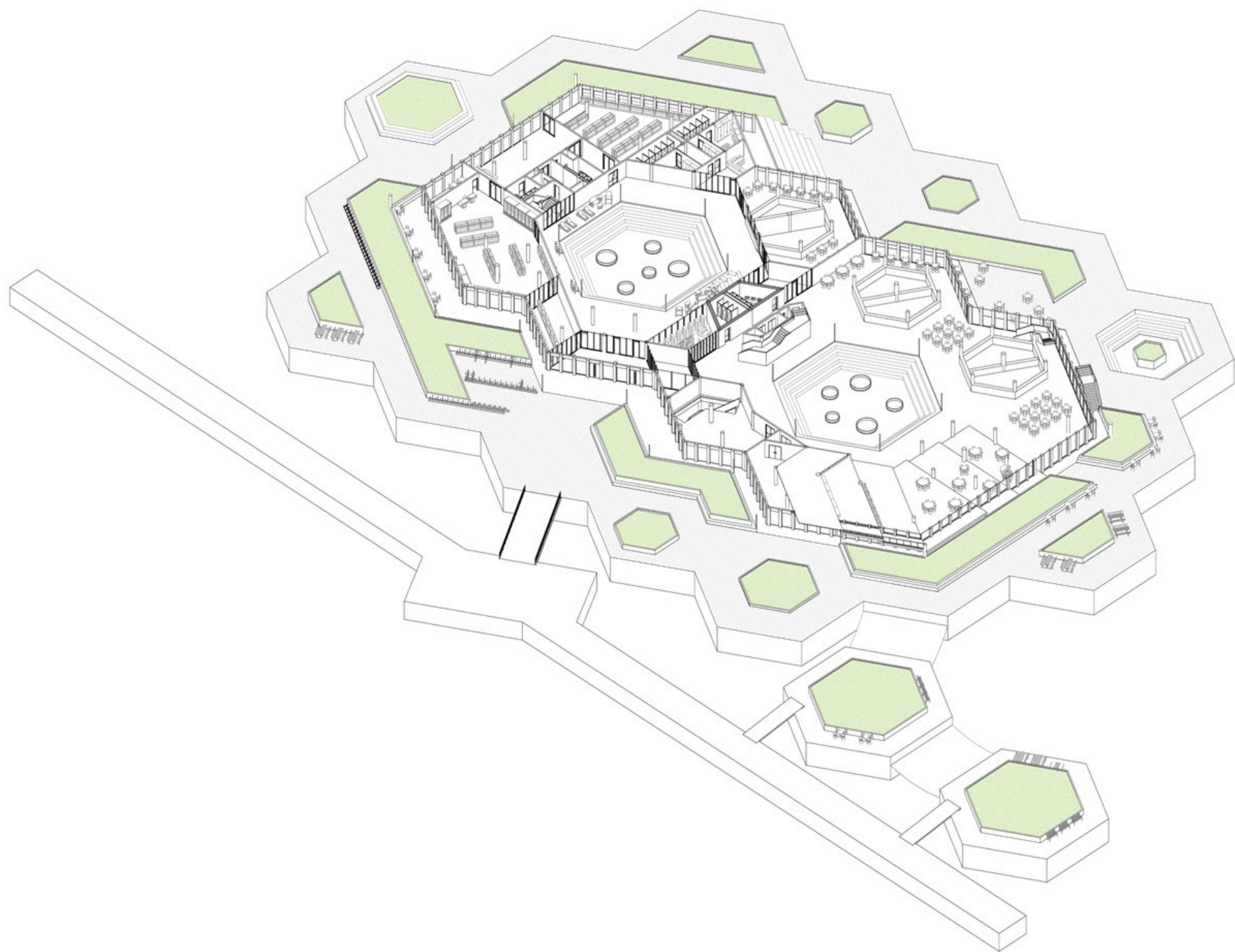
Total: 367,000 ~ 456,000 kWh

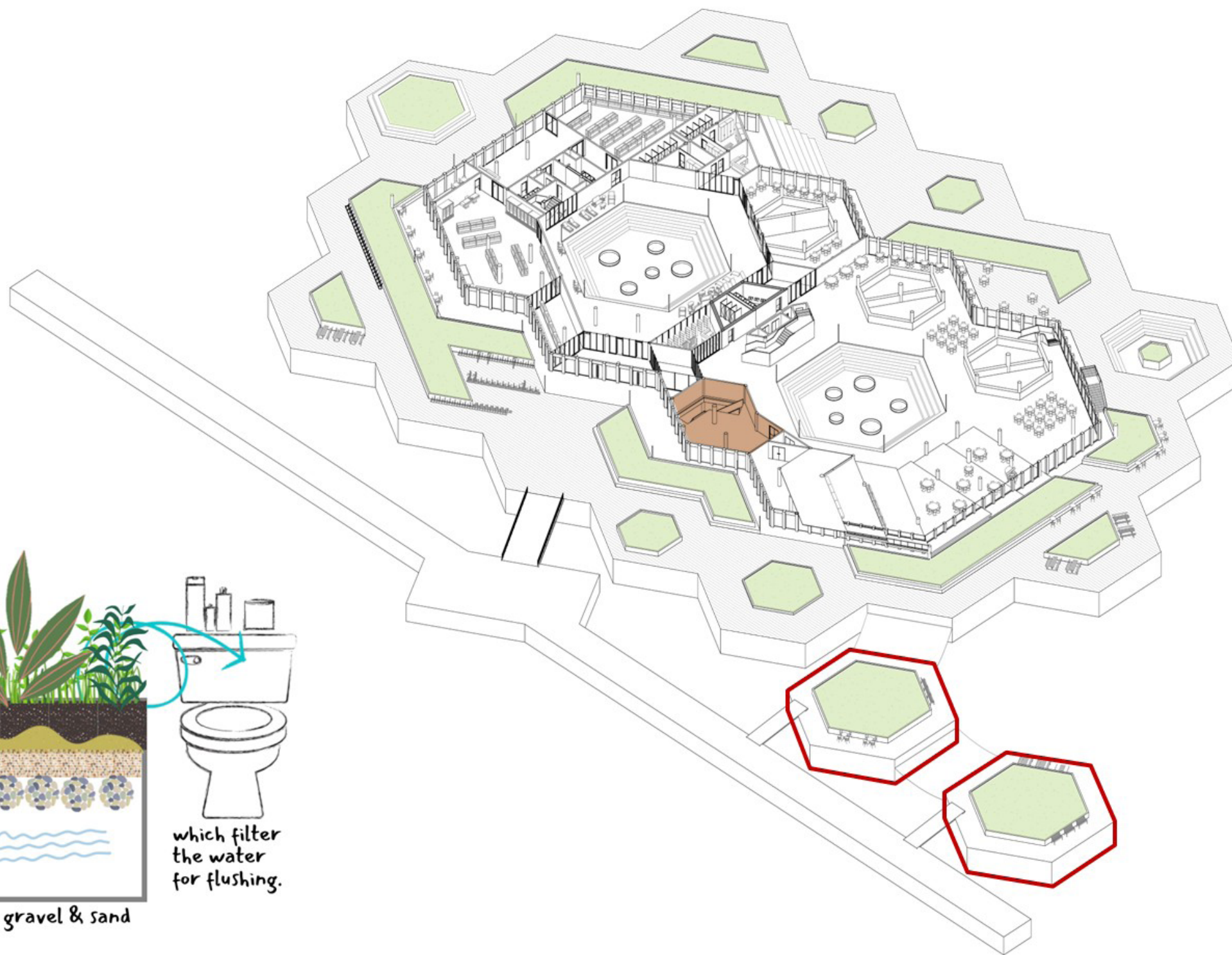
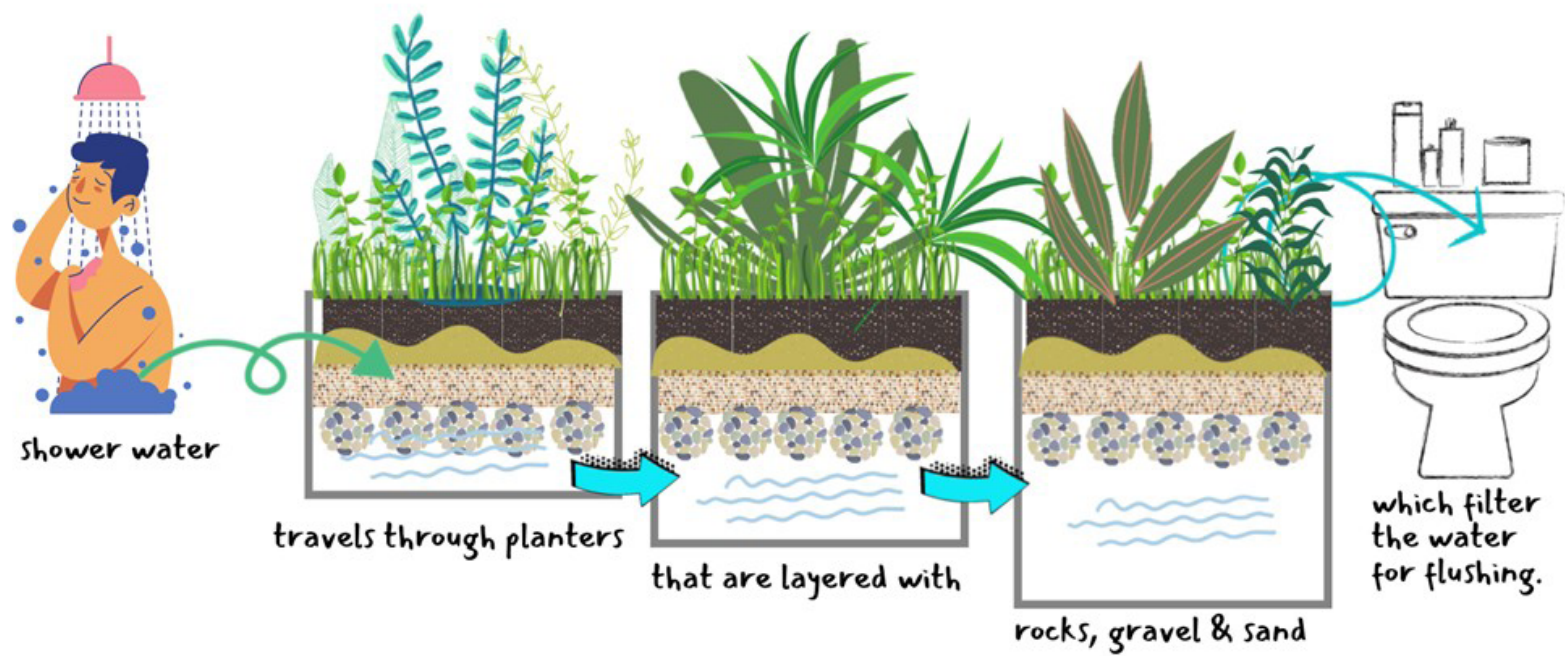


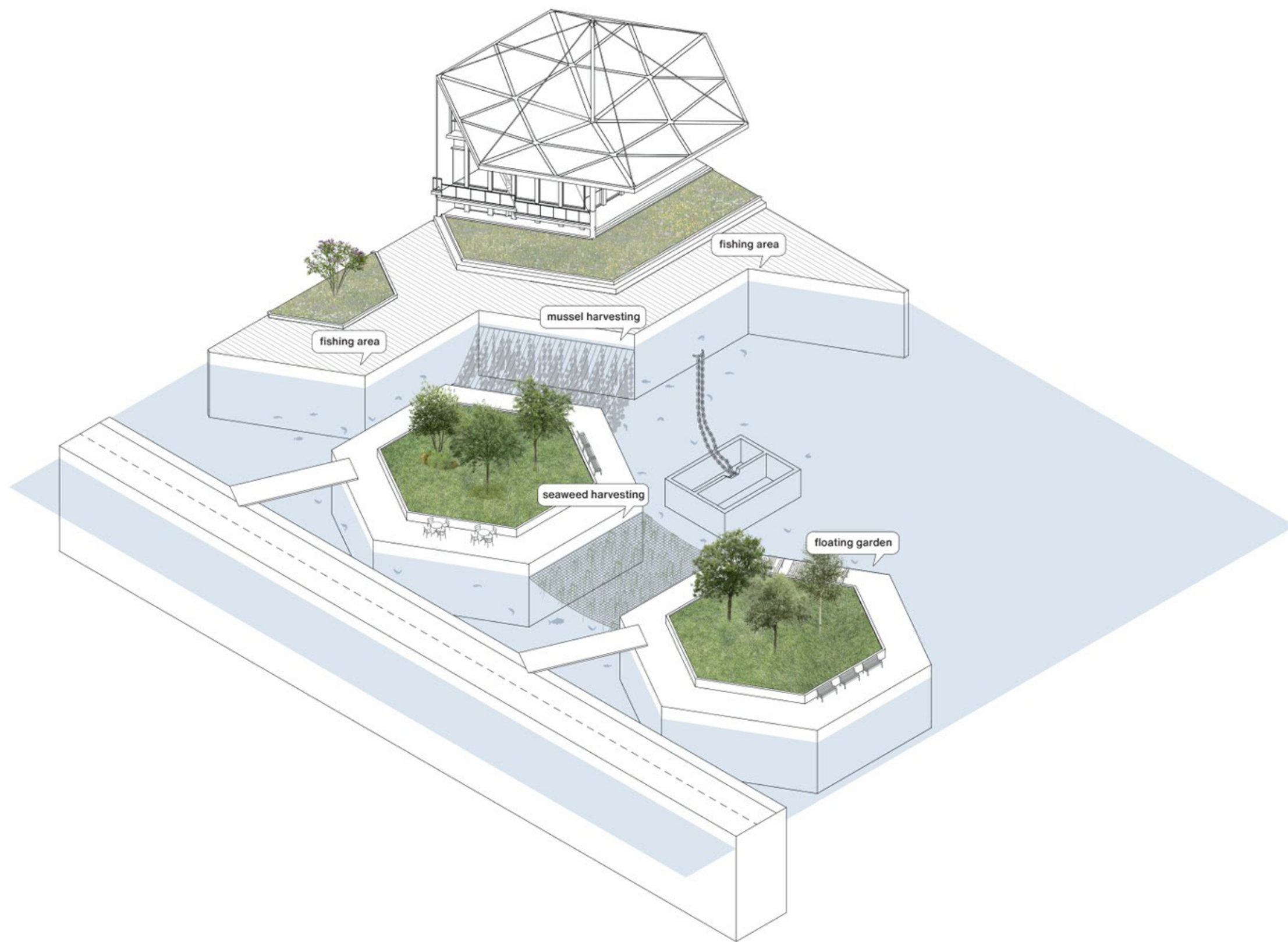
heat pipes for
heat exchanger











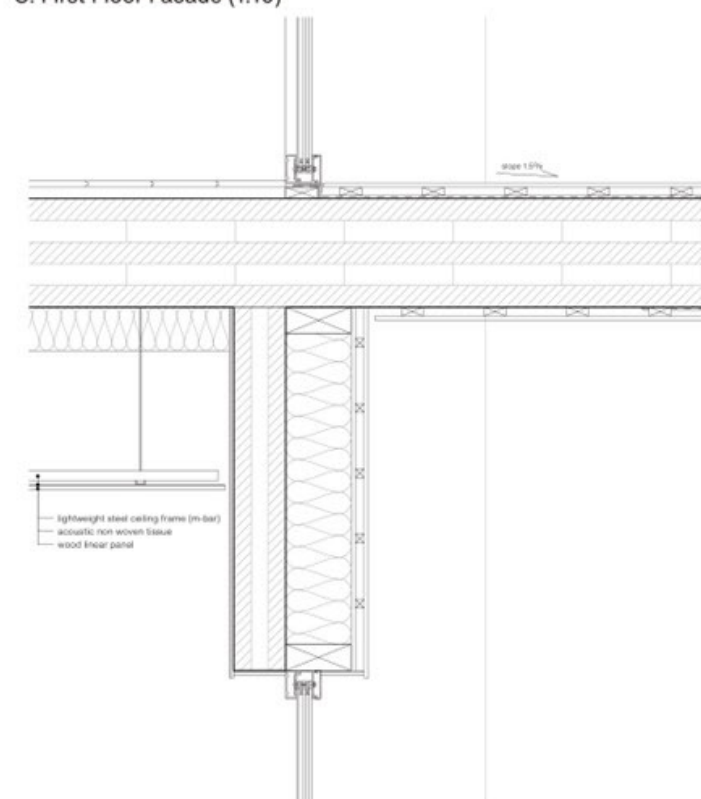
Façade



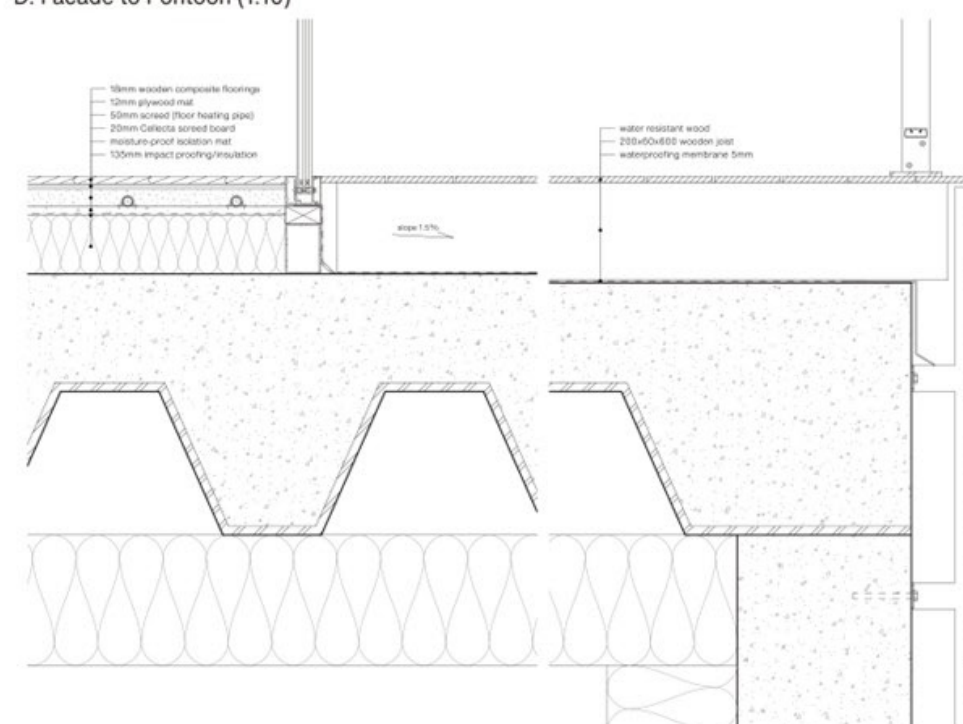




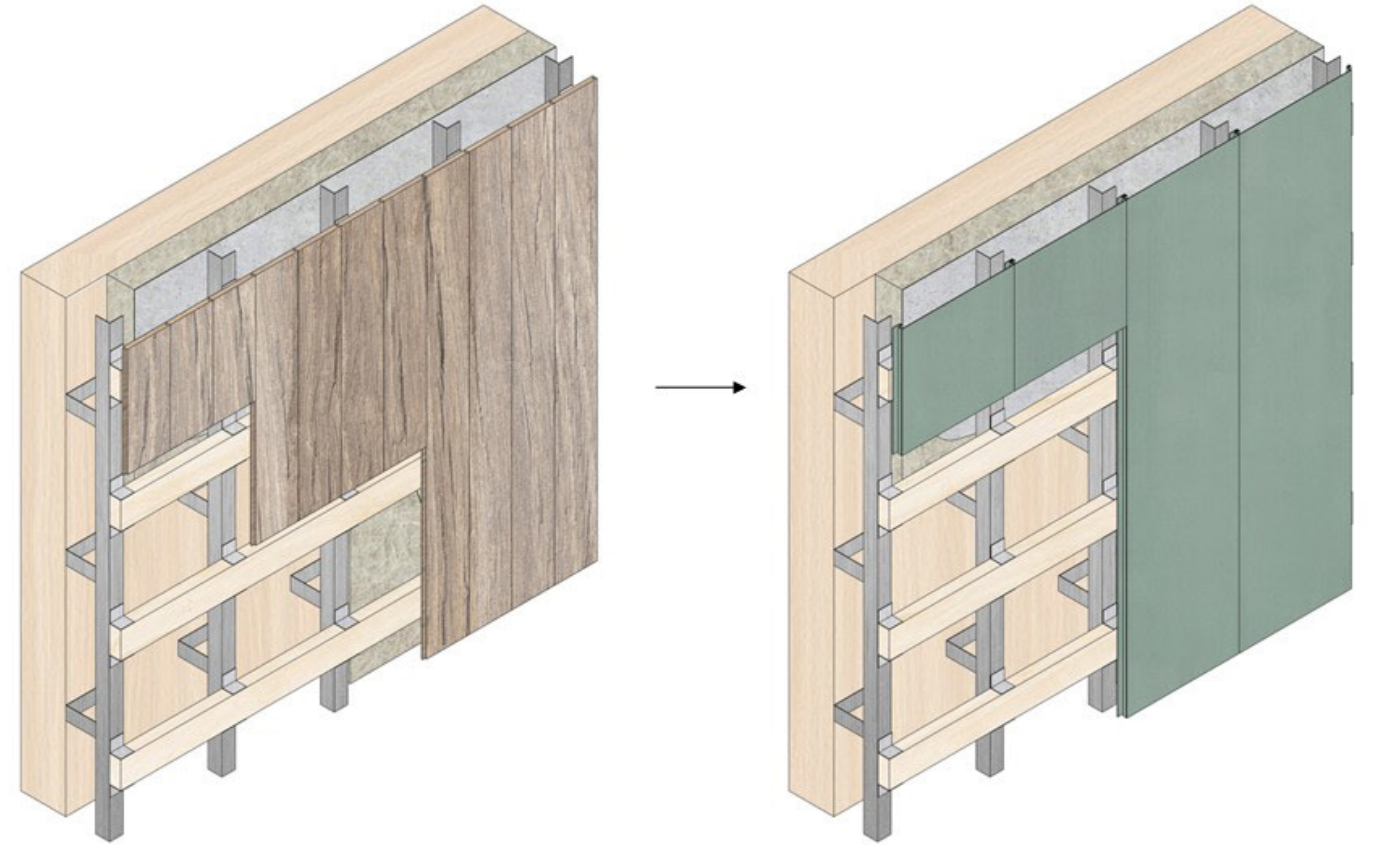
C. First Floor Facade (1:10)



D. Facade to Pontoon (1:10)

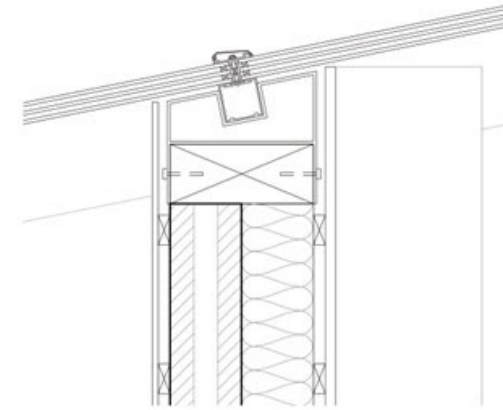




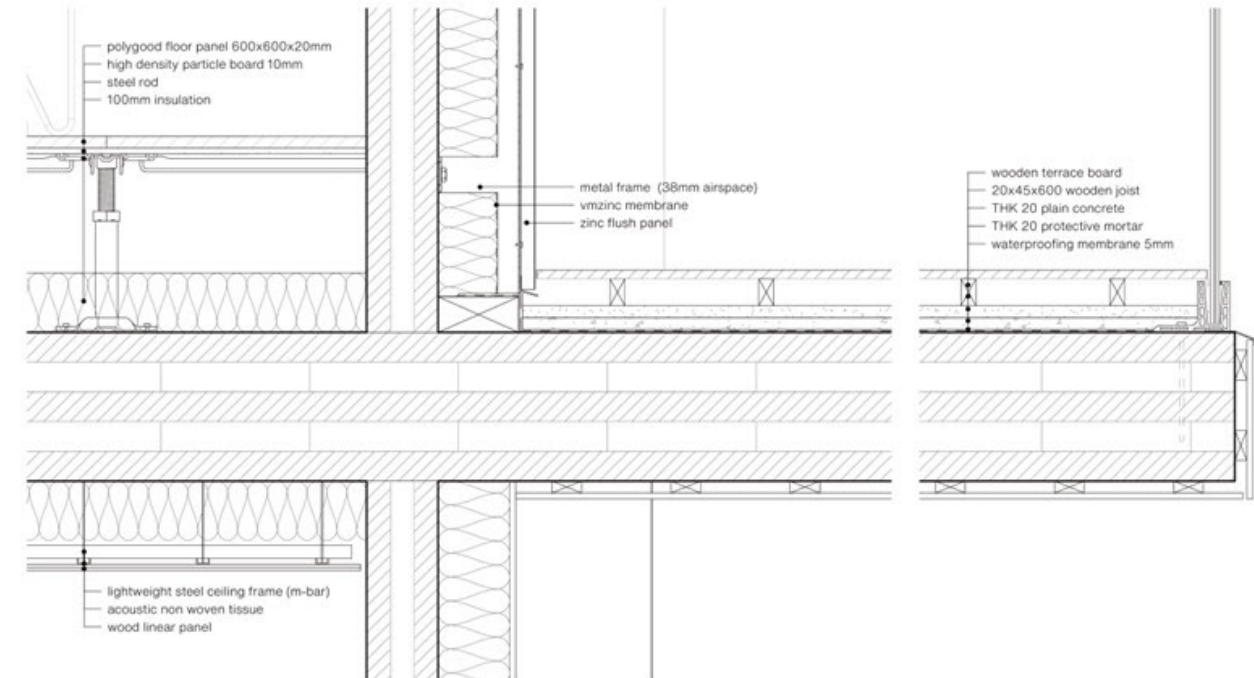




A. Facade to Roof (1:10)

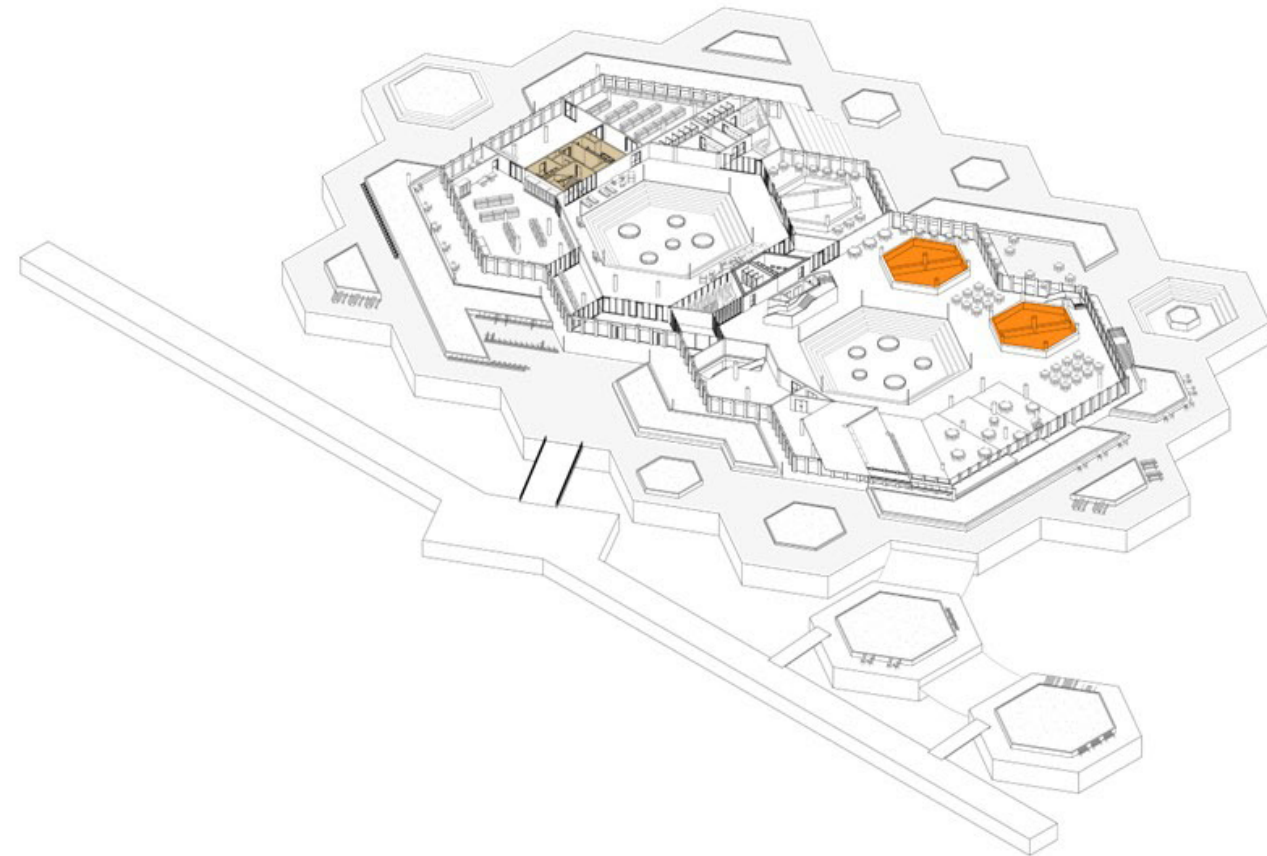
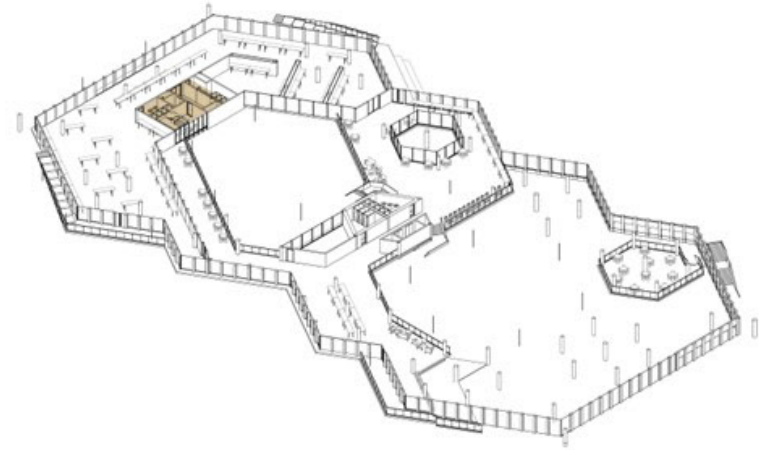
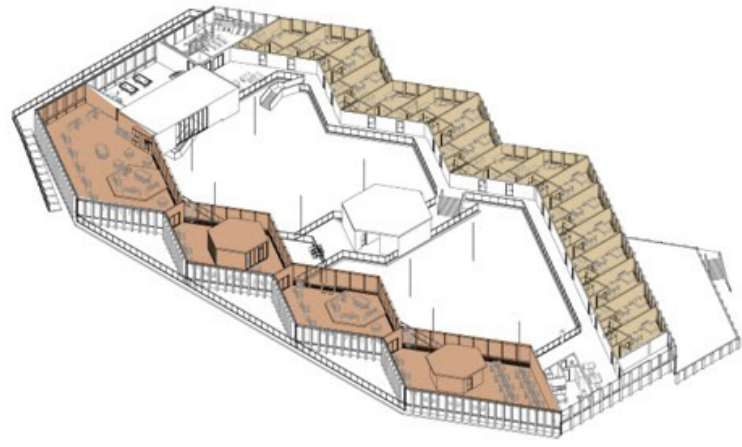


B. Second Floor Facade and Terrace (1:10)



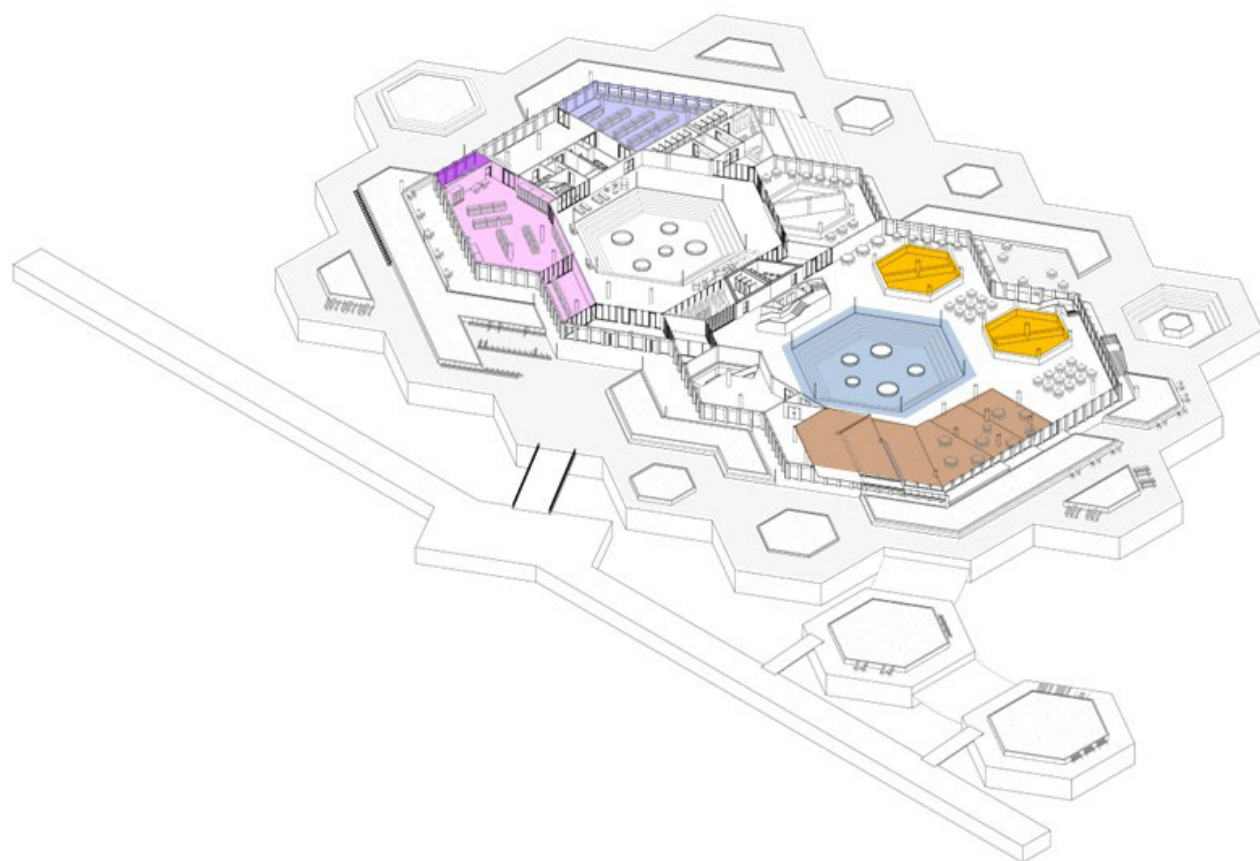
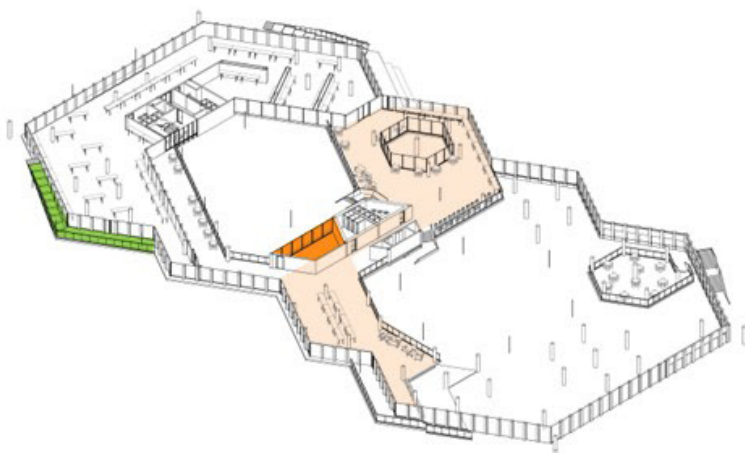


coming from the terminal





view of the entrance







Floating Haven _ Floating Maritime Terminal Office