

BEFORE THE FLOOD

A world in Le Havre

Architecture & Experience

WORKBOOK

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SOUTENANCE

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Before the flood – a world in Le Havre

After having tested the hypothesis to build a world in Arc-et-Senans, Guise, Clairevivre and Firminy, we settle this year in the city of Le Havre.

We are interested in this city for many reasons and particularly for its capacity to condense several dimensions able to inform the projects. Due to its singular geographic position, at the estuary of the Seine, Le Havre is one of the most important European ports. Built at the beginning of the 16th century, the growth of the port goes alongside with the fast economic development of the city and the rise of pre-industrial brick and tile workshops. Some see this port as the entrance port to Paris, like the Piraeus for Athens. Le Havre is at the crossroad of landscapes, in-between land and sea, the Seine and the Channel, clear and saltwater, giving it a special quality. Thus, the city is also imbued with the imaginary of Perret who actively participated to the post-war Reconstruction.

Nevertheless, its geographic situation is also the sword of Damocles of Le Havre. Following the most pessimist projections of the IPPC (GIEC), the average water levels could rise by one meter until 2100. This rise of water levels increases the risk of water submersions, permanent or temporary, the risk of coastal erosion, increases salt intrusions into coastal aquifer, thus increases the risk on coastal and port infrastructures. Le Havre is then on the frontline facing environmental issues that makes it a representative subject to study the question of the coastal fringe. This question is even more relevant that by the year of 2040, in France, coastal regions could gather a third of the population.

By the interest on the coastal fringe landscape, the aim of a world in Le Havre is to evaluate the consequences of such a situation on the architecture and how this situation opens a huge field of experimentation that leads us to question the definition of architecture. In other words, the question is to understand how the architectural form could be deeply redefined in relation with the environmental issues and then generate unexpected results. Environmental imbalances create a strong paradigm shift that forces us to radically think about our relations to the territory, the construction, the mobility, the uses, etc. and thus to define new balances within the architectural form. In addressing the subject of environmental issues through the means of architecture, we affirm our attachment to the definition of architecture as a knowledgeable and exploratory discipline while outlining the contours of a possible disciplinary approach of the environment in order to propose new standards of comfort.

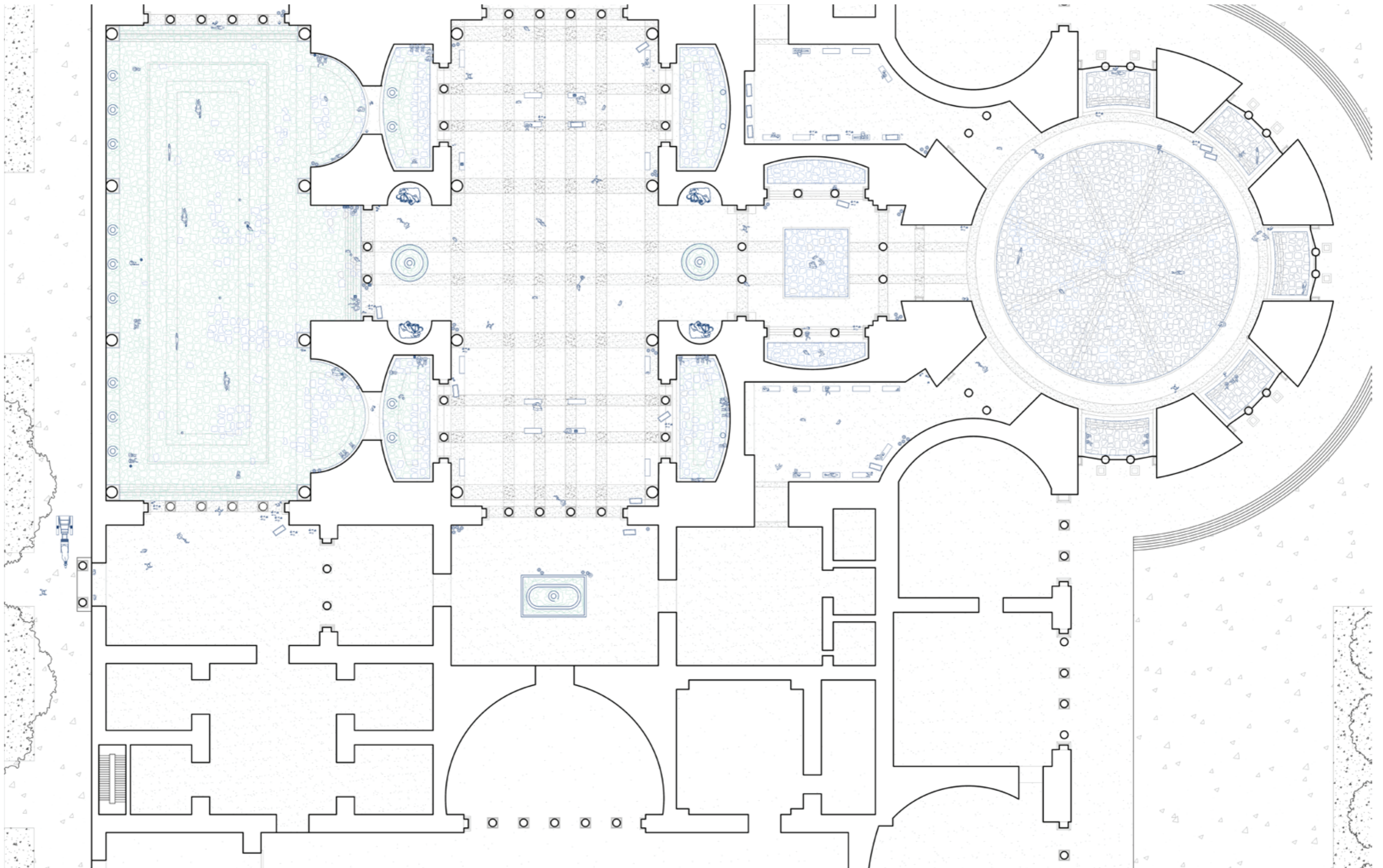
These explorations on the definition of the architectural form and new standards echoes with the work of Perret for the Reconstruction of Le Havre. He developed the “Immeuble standard” or “Appartement modulaire” both based on the use of a constructive grid of 6,24 meter offering at once standardization of the construction and flexibility of uses in order to “inscribe city in measure, like a musical harmony”, to use his words.

Explorations

Seaside culture
Learning from constraints
L'abris souverain
Pilotis

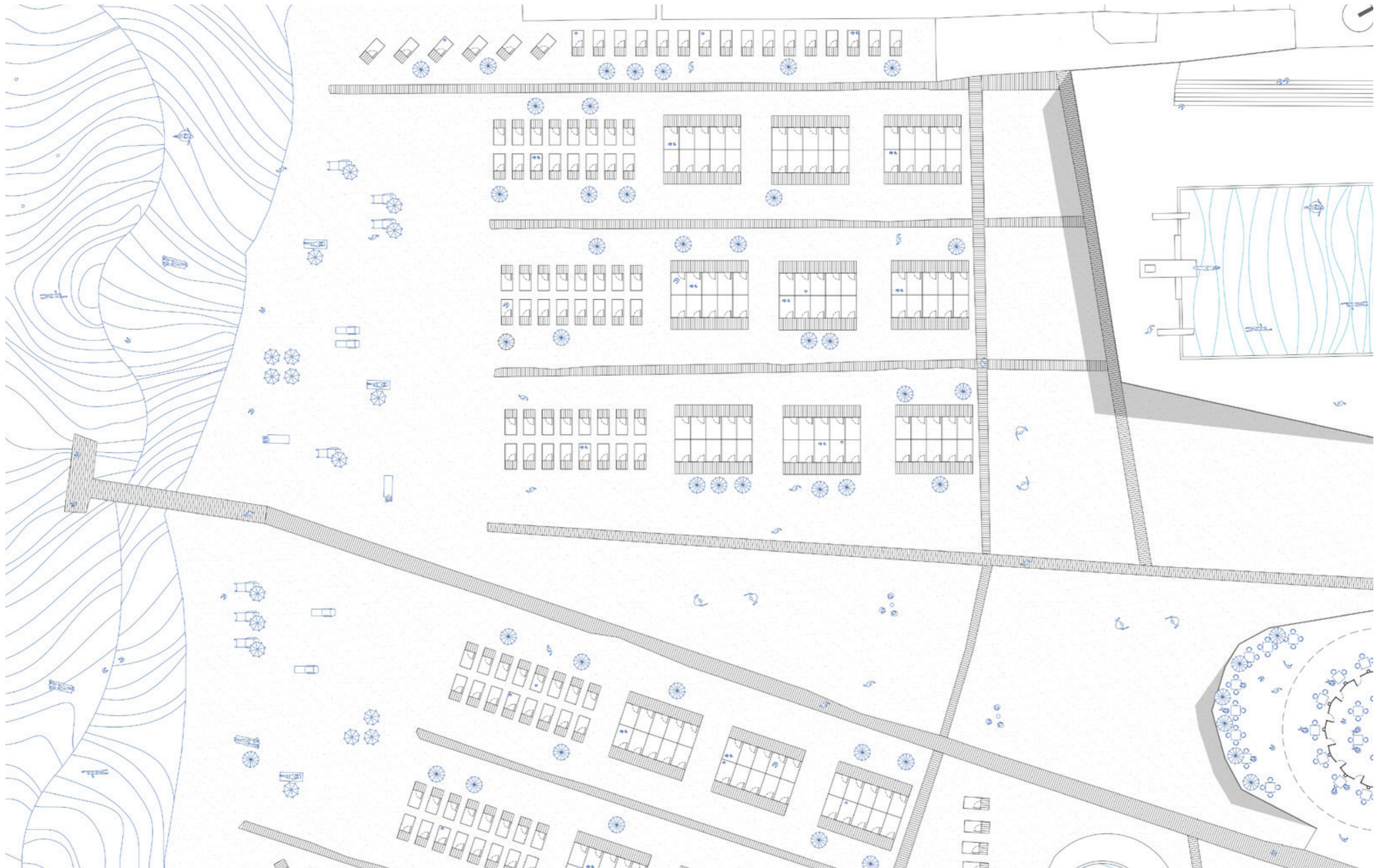
Seaside culture

Thermes de Caracalla, Rome, Italie, 212-216 ap. J-C



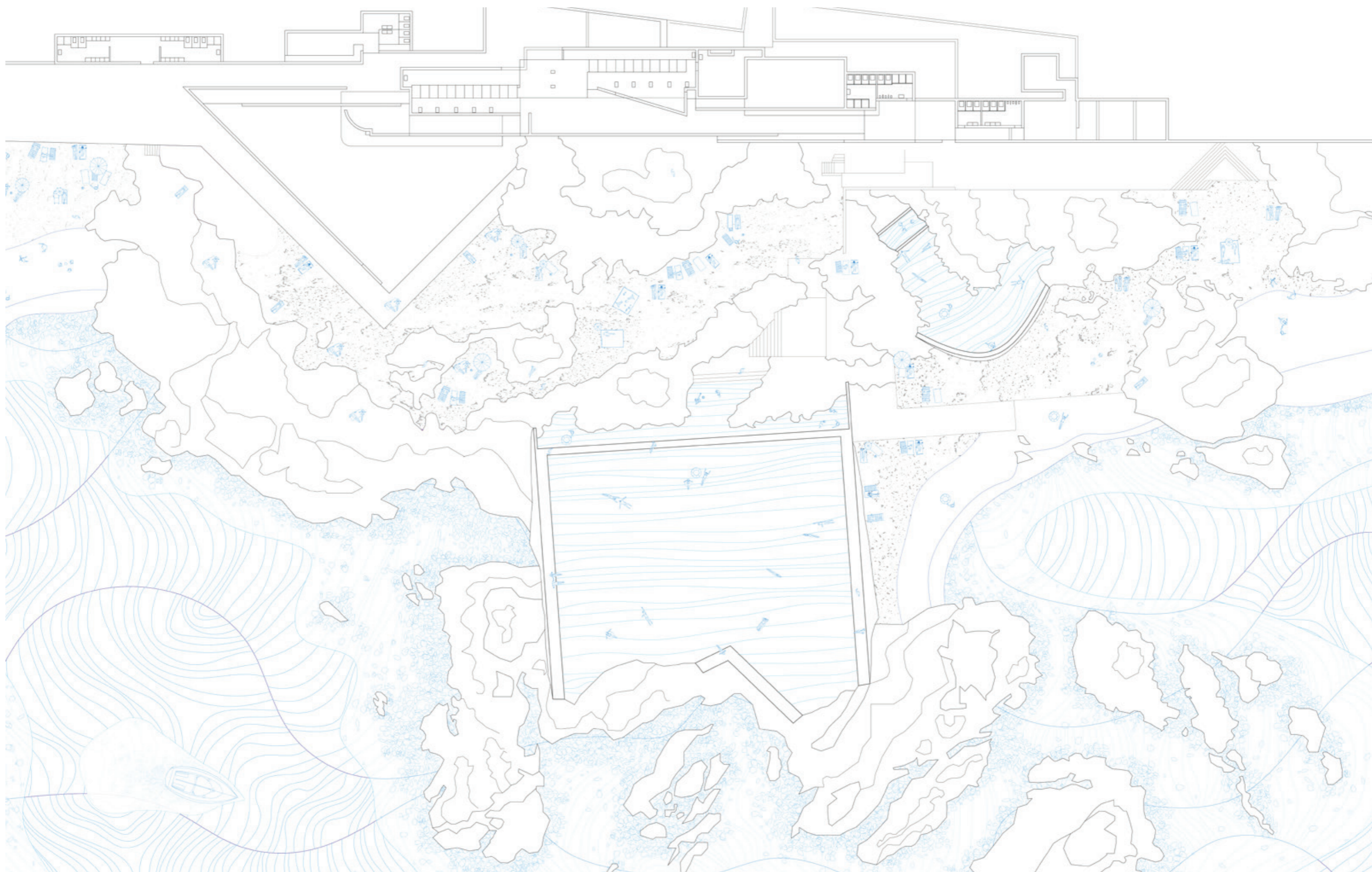
Seaside culture

Pier Luigi Nervi, Piscine d'Ostia Lido, Rome, Italie, 1950



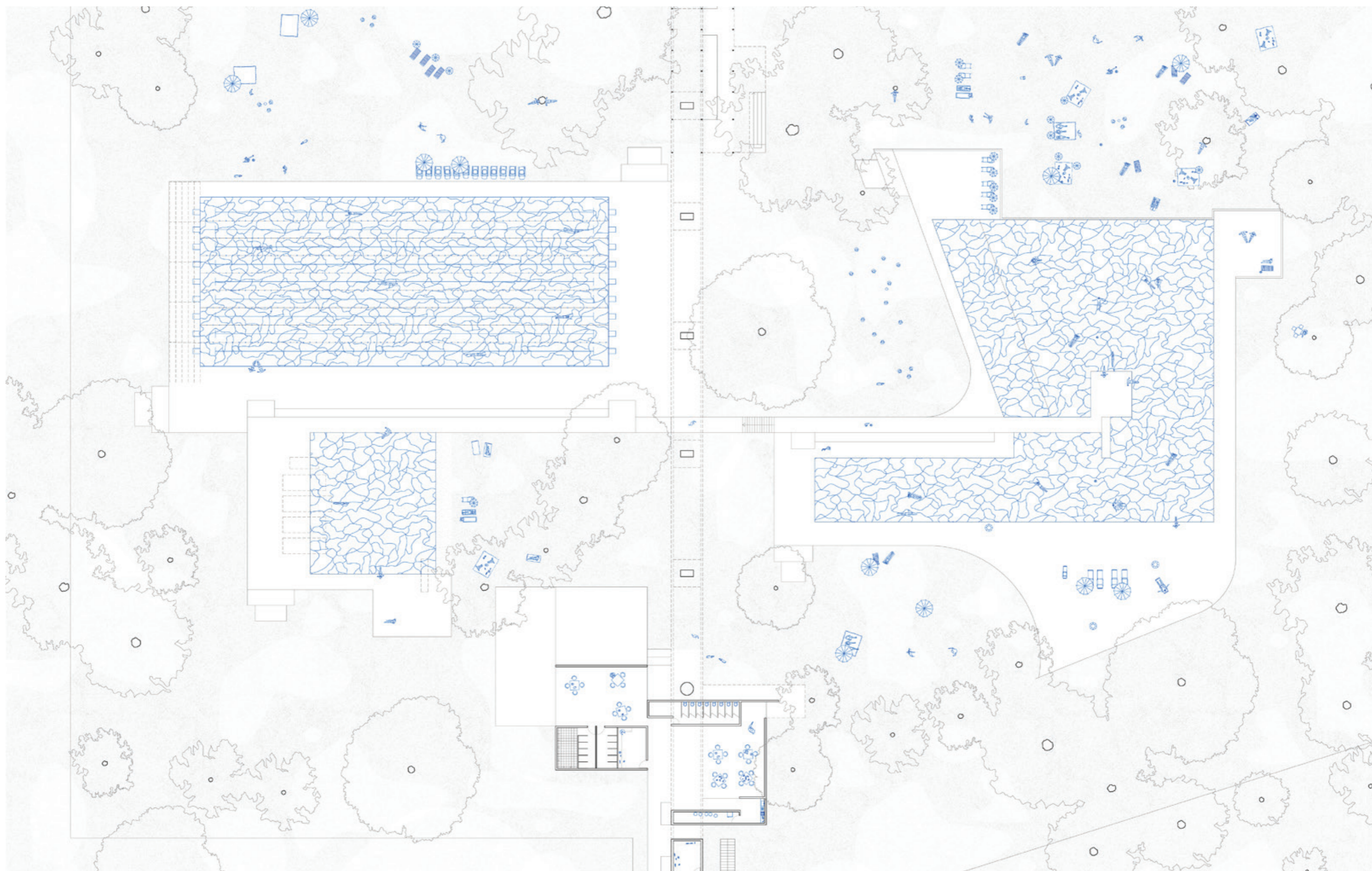
Seaside culture

Alvarò Siza, Piscine Leca da Palmeira, Matosinhos, Portugal, 1966



Seaside culture

Aurelio Galfetti, Piscine, Bellinzola, Italie, 1967



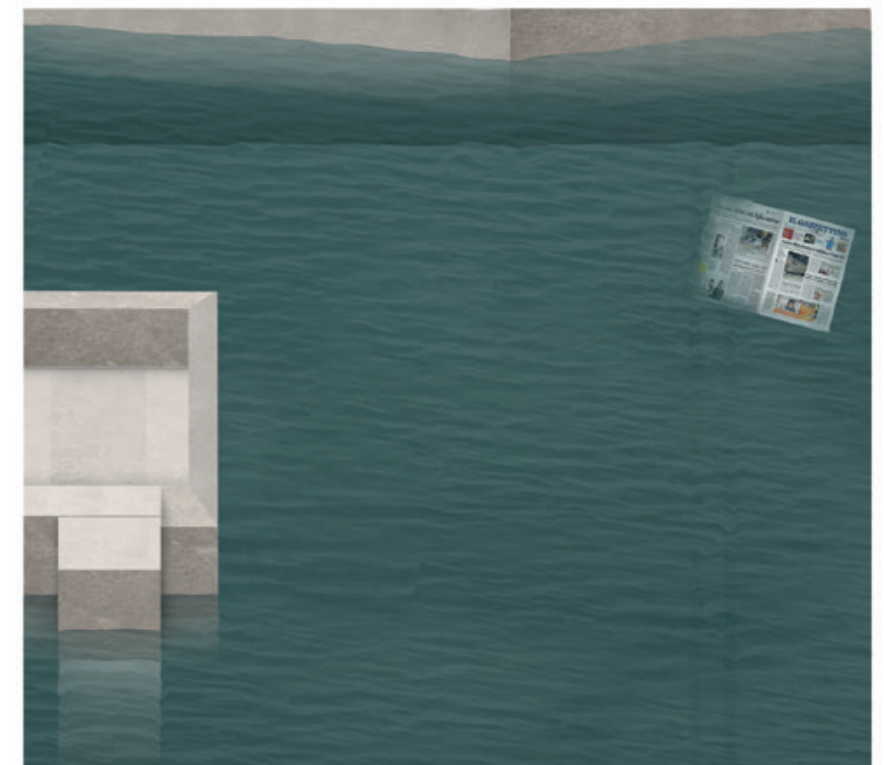
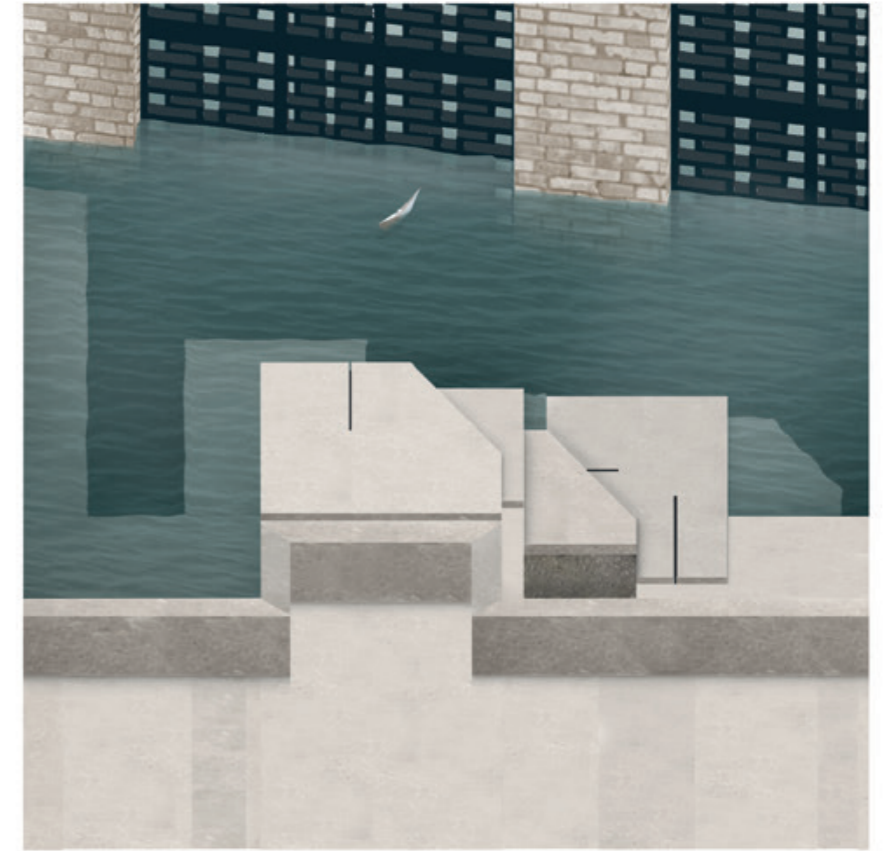
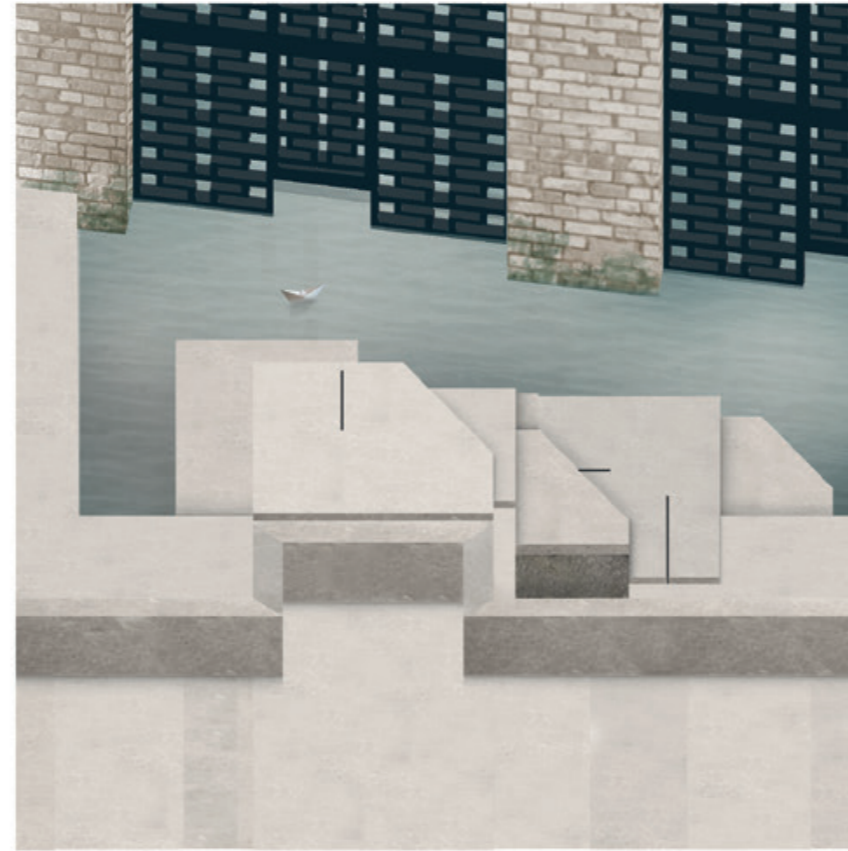


Learning from constraints

Le Corbusier, l'asile flottant, Paris, France, 1929, (flooded in 2018)



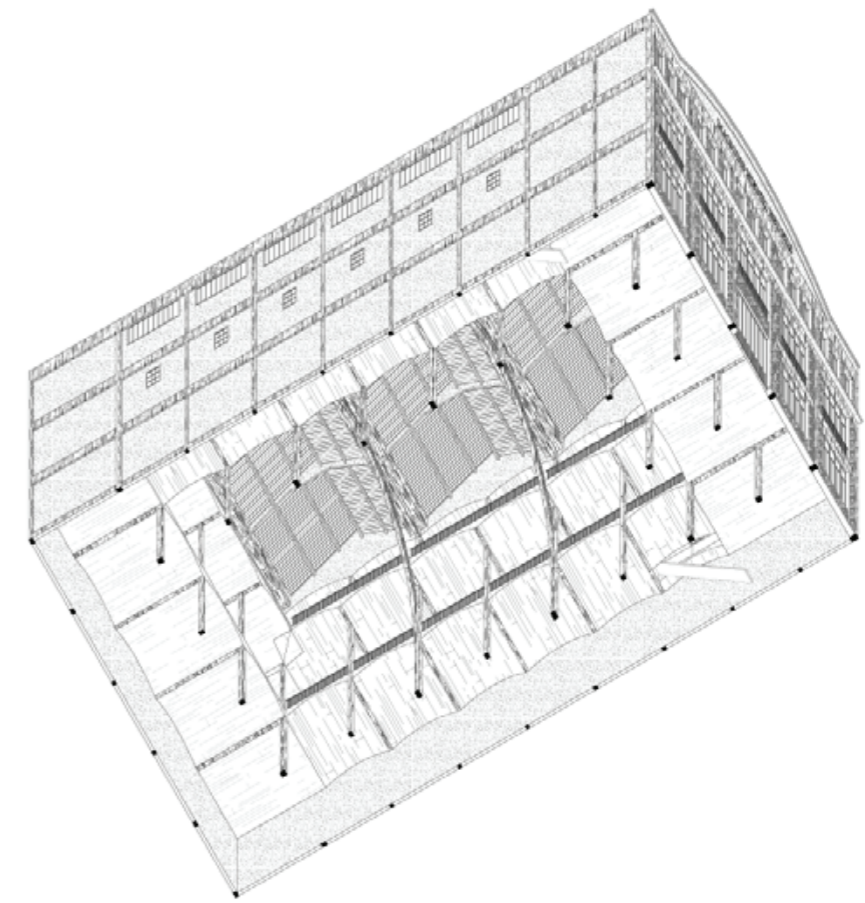
Learning from constraints
Carlo Scarpa, Fondazione Querini Stampalia, Venice, Italie, 1960





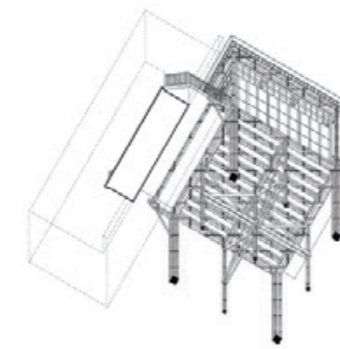
Perret - L'abris souverain

Les ateliers Esders, Paris, France, 1919, (demolished in 1960)

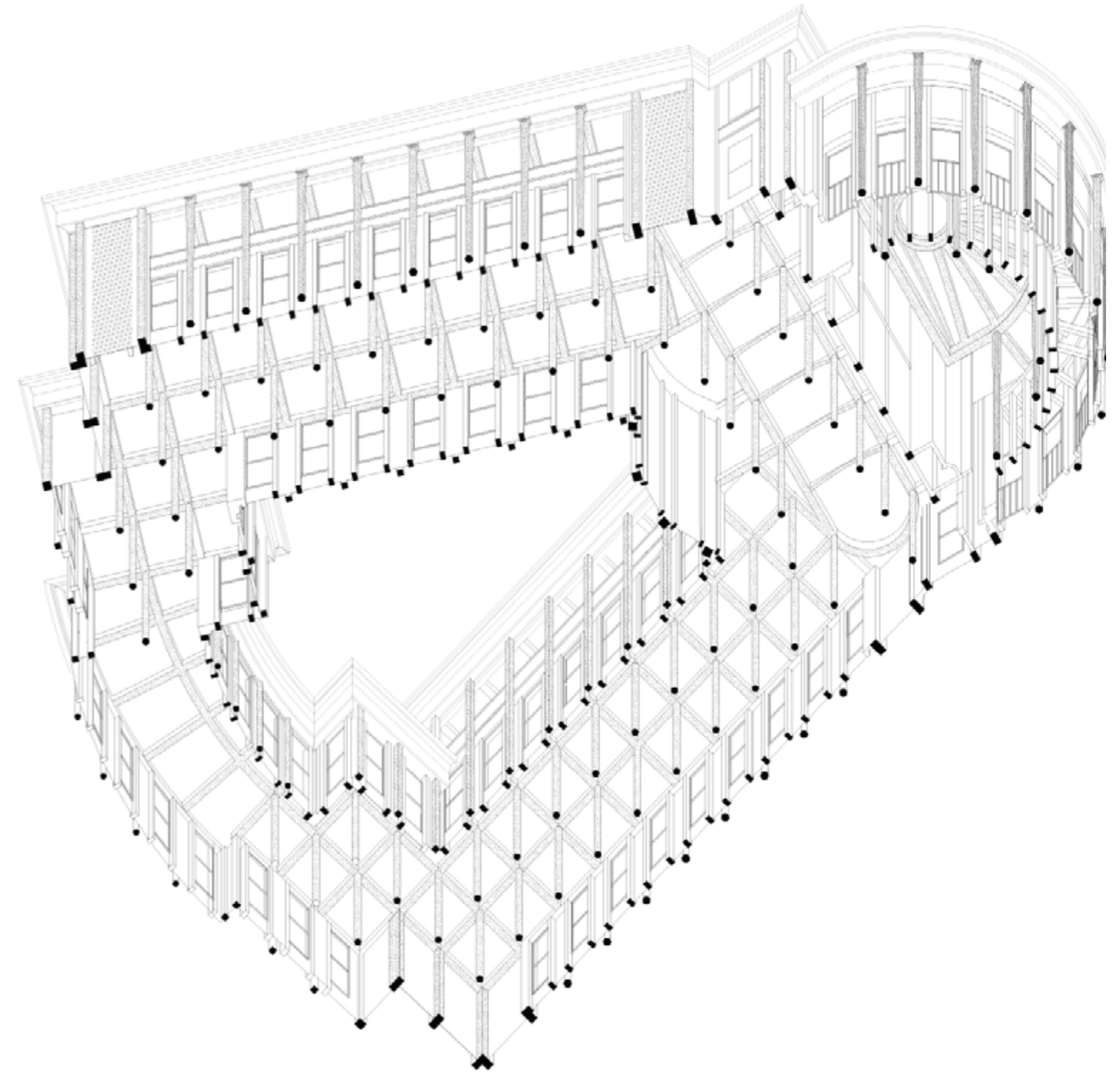


Perret - L'abris souverain

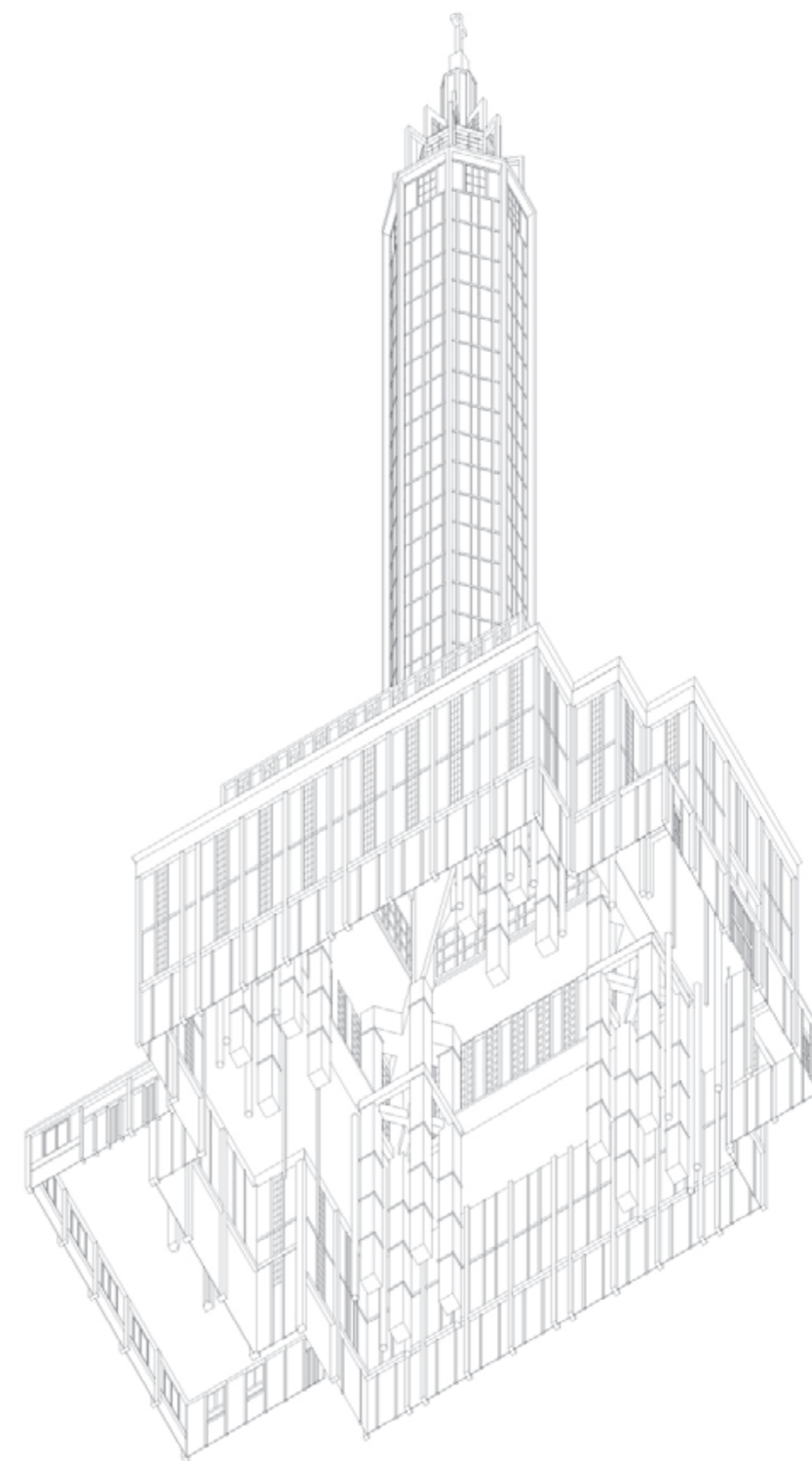
Pavillon d'entrée de la librairie centrale des beaux-arts, exposition internationale des Arts Décoratifs Paris, France, 1925



Perret - L'abris souverain
Palais Léna, Paris, France, 1937



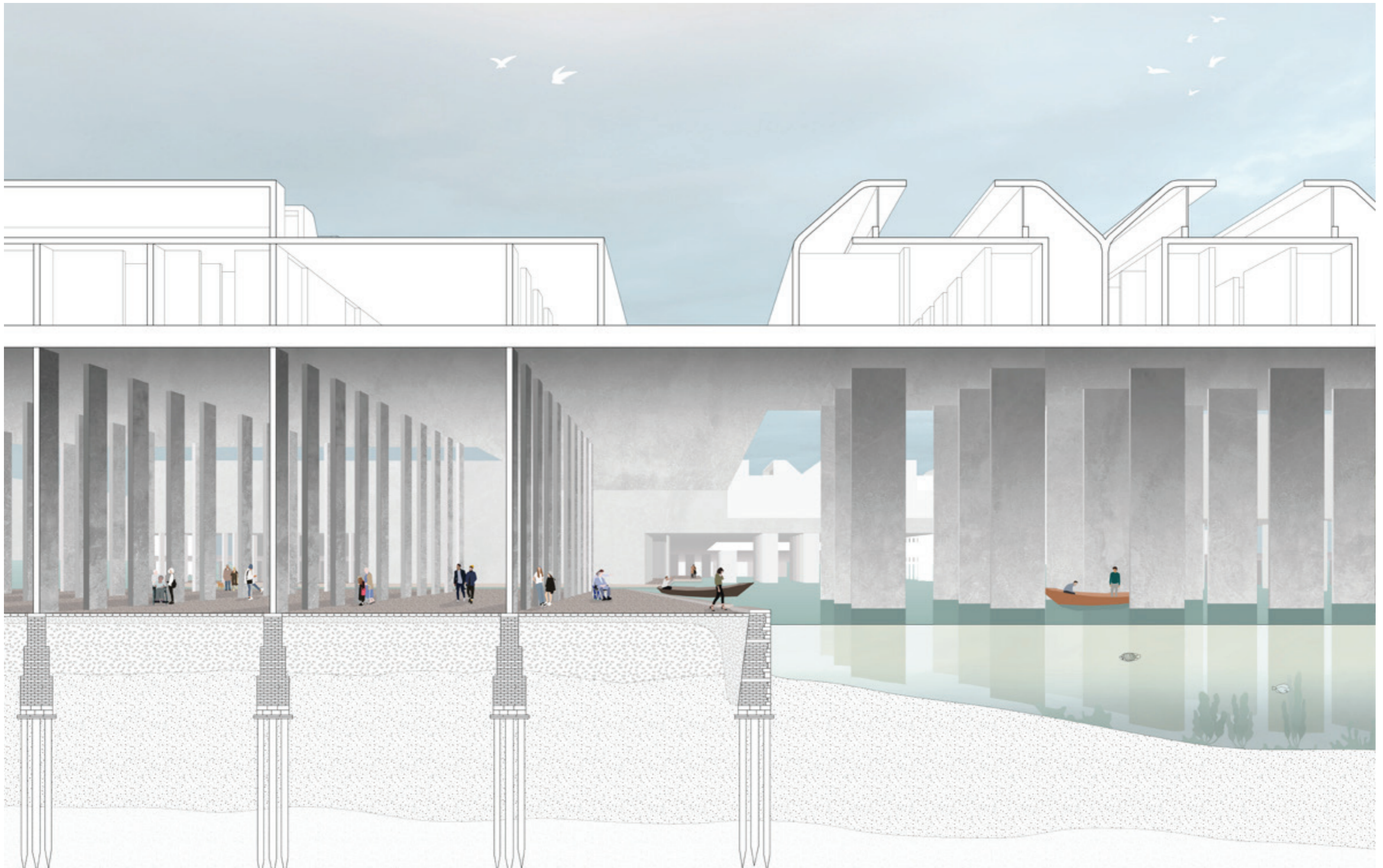
Perret - L'abris souverain
Église Saint-Joseph, Le Havre, France, 1957



Pilotis

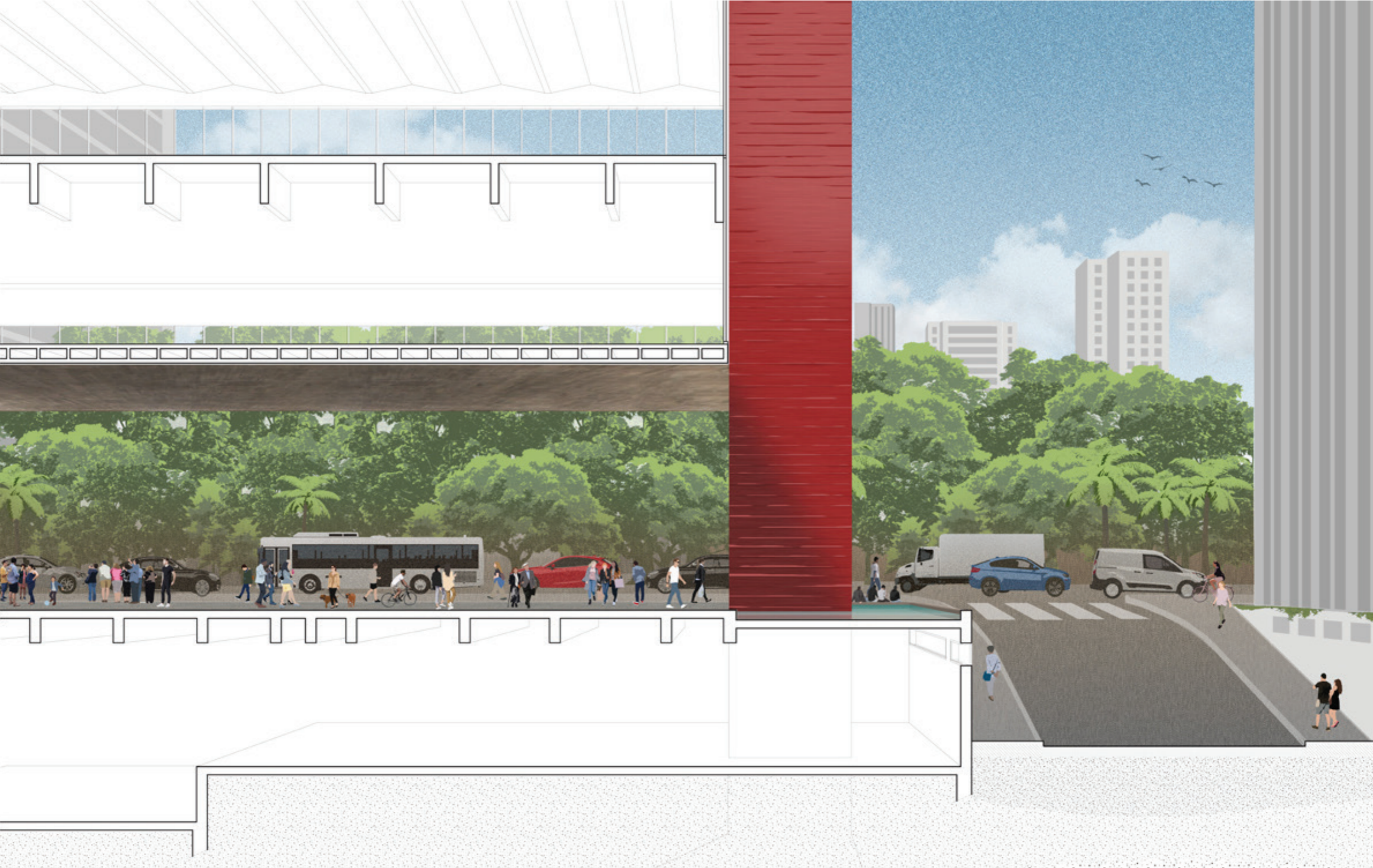
Enrico Cardelli, Rotonda a Mare, Senigallia, Italie, 1933





Pilotis

Lina Bo Bardi, MASP, Sao Paulo, Brésil, 1968



Pilotis

Lacaton & Vassal, Maison, Cap Ferret, France, 1998



BEFORE THE FLOOD - A WORLD IN LE HAVRE





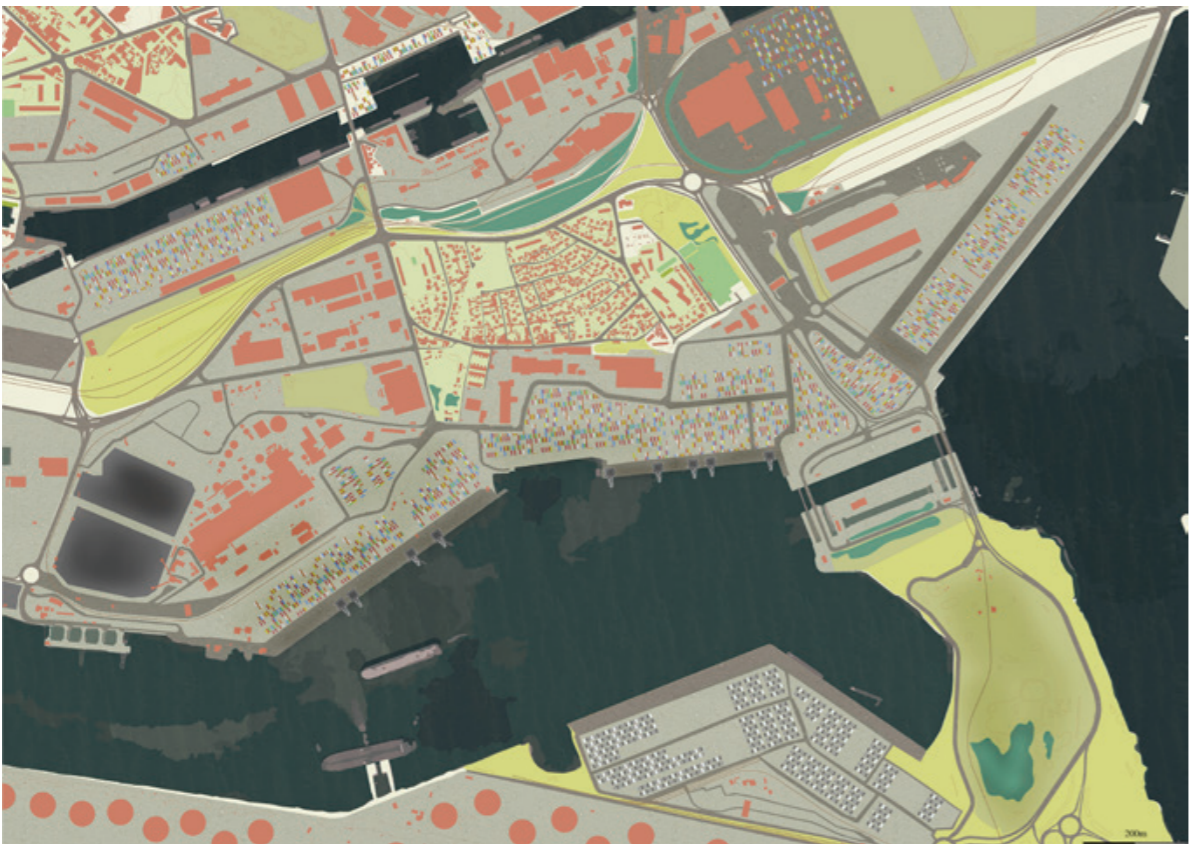
Site 1 - CLIFF



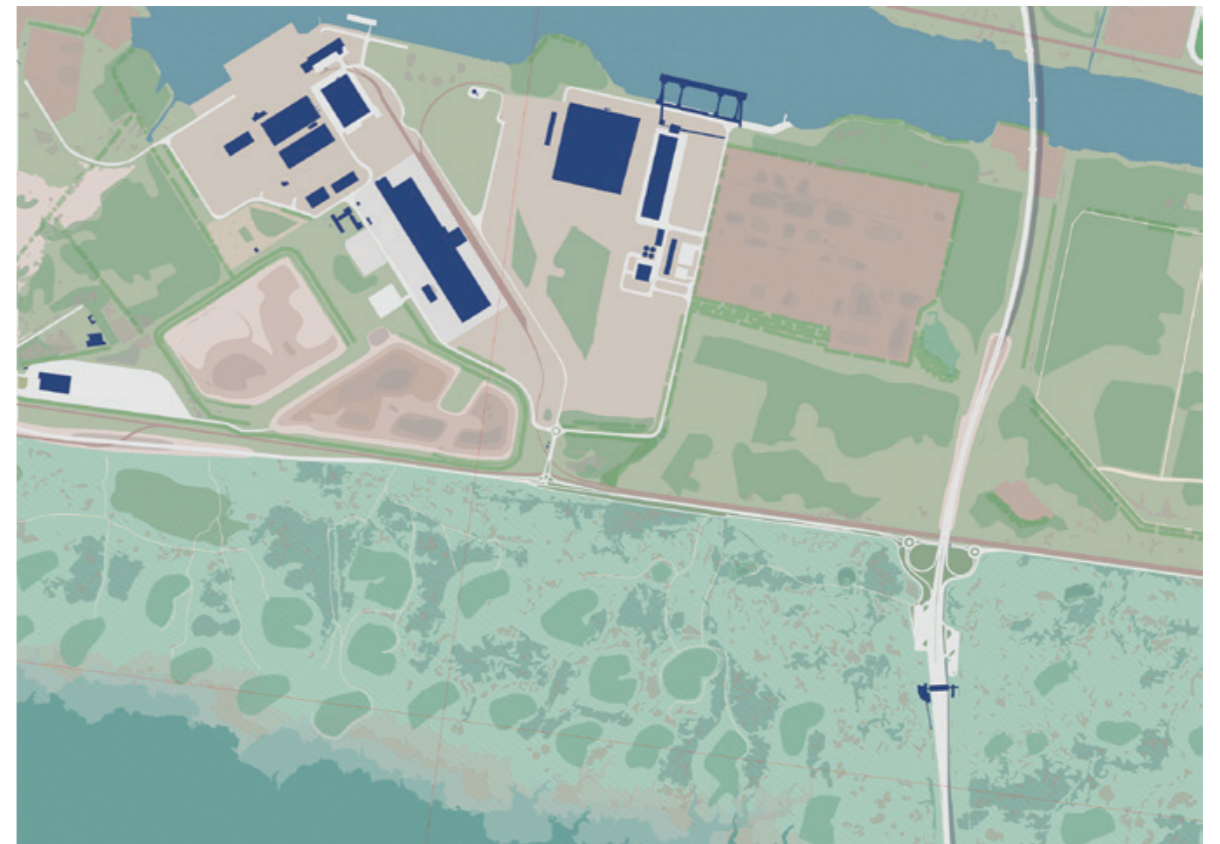
Site 2 - CITY CENTER



Site 3 - HARBOR



Site 2 - SWAMP



DAY 1

01 LE HAVRE CITIZEN SCHOOL p.59

02 BODY CARE p.67

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DAY 2

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DAY 1

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DAY 2

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DAY 1

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DAY 2

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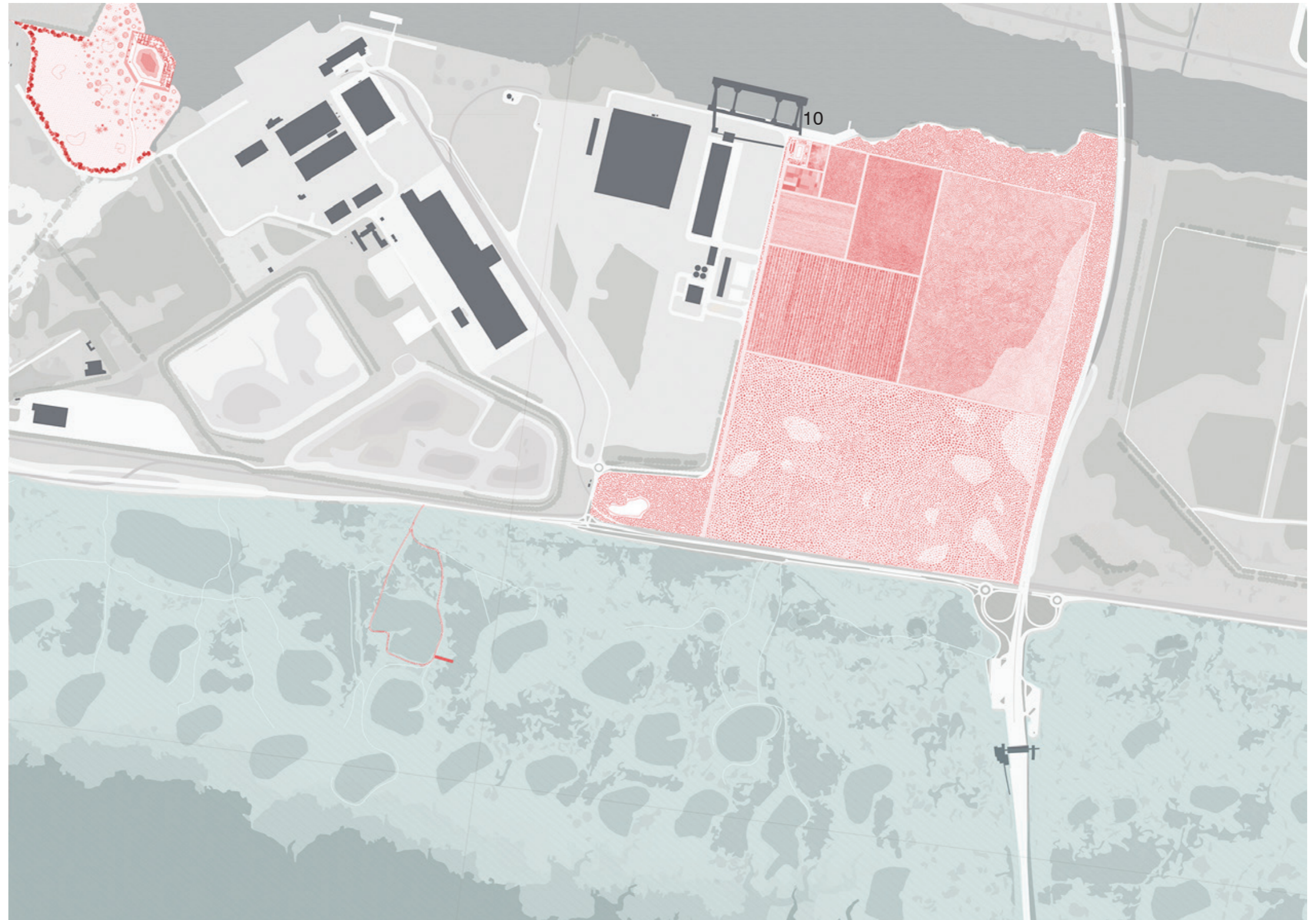
DAY 1

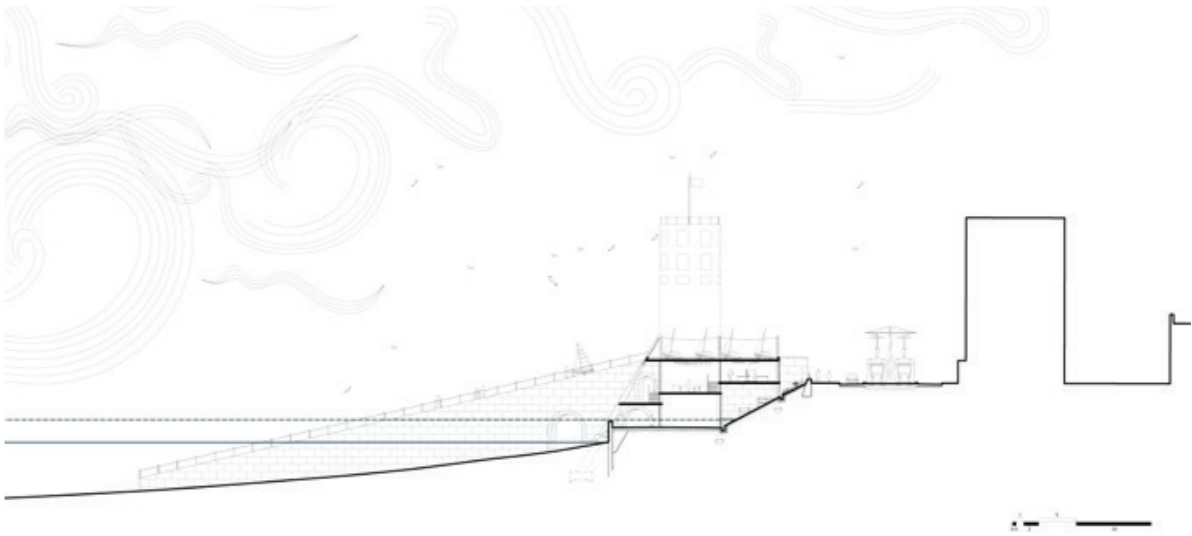
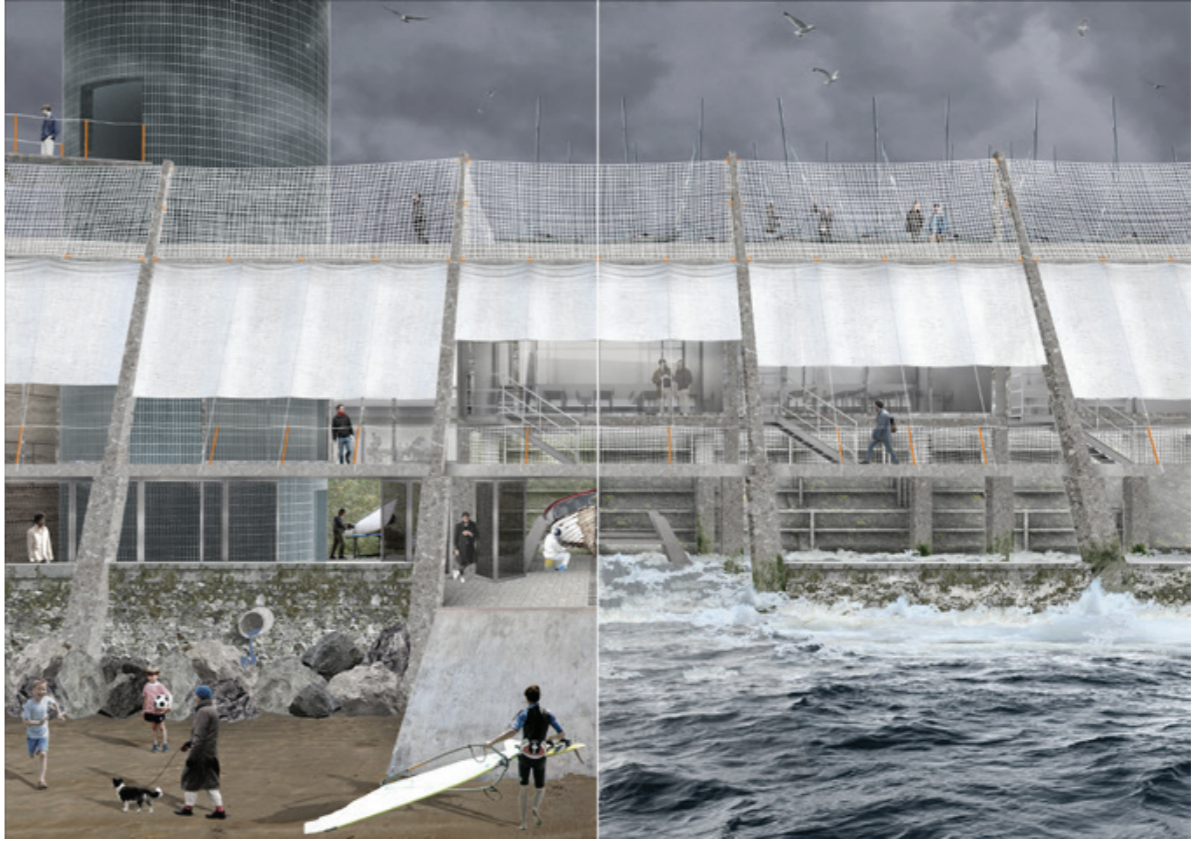
10 SALT WATER FARMING p.131

DAY 2

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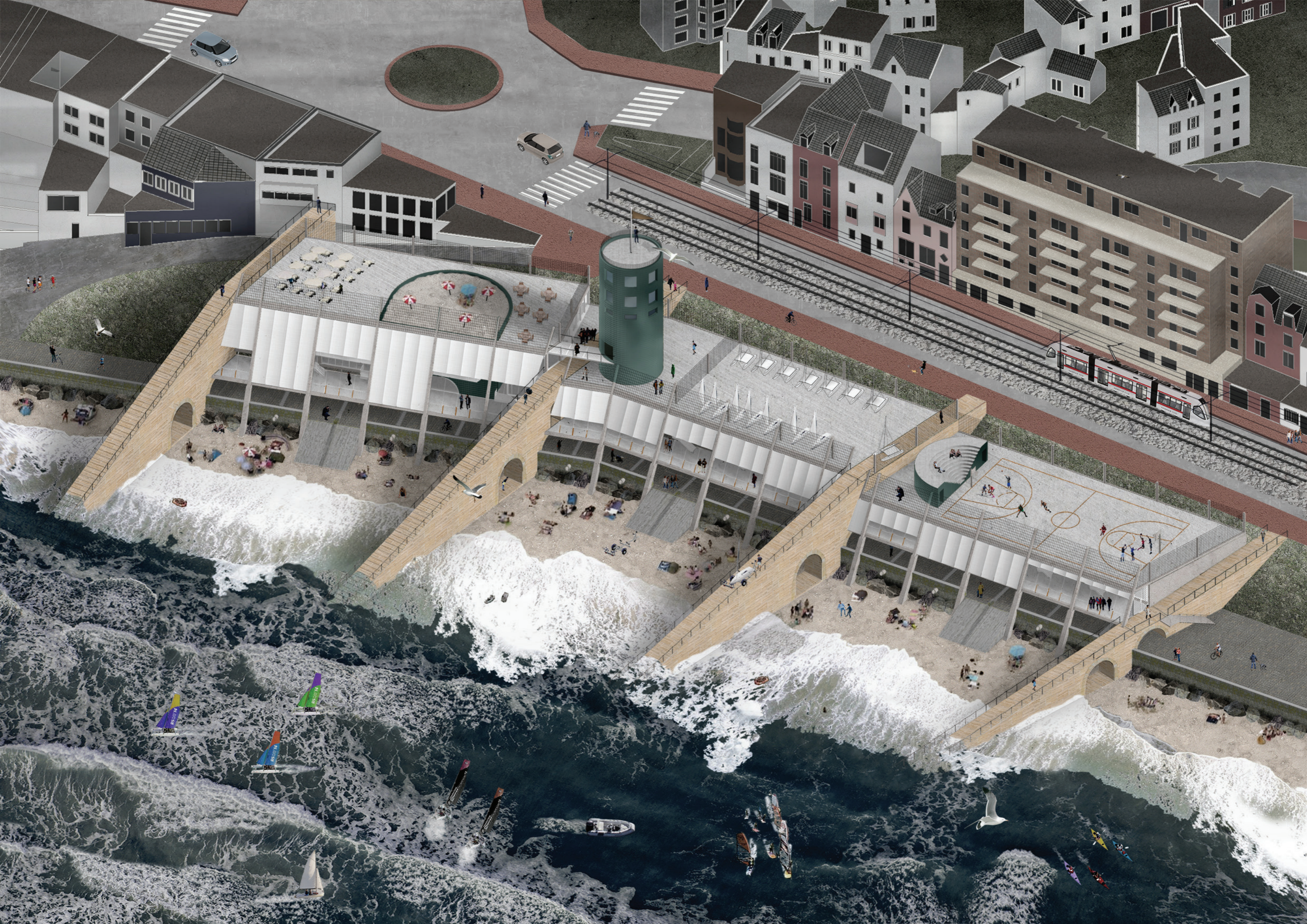
12 OCEANOGRAPHIC CENTER p.147

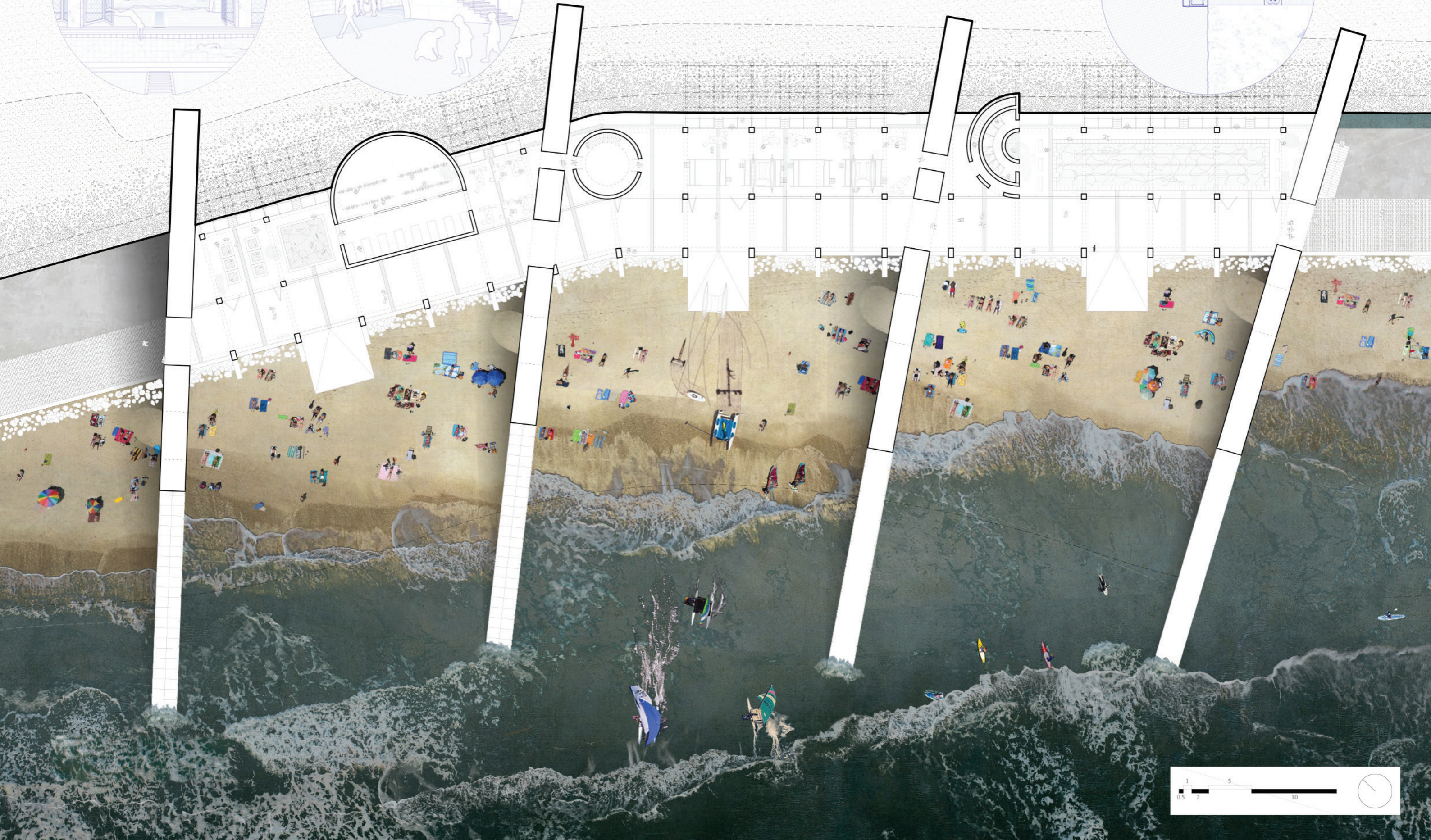
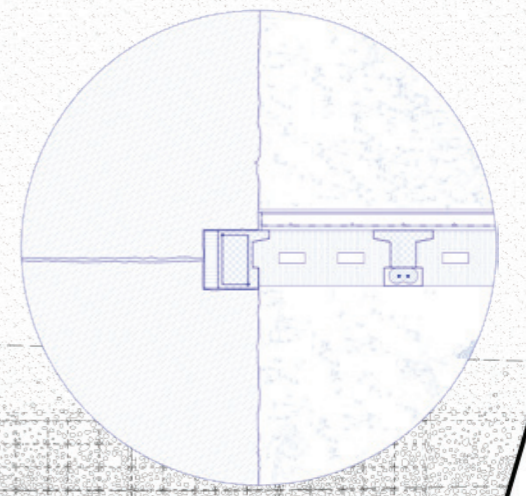
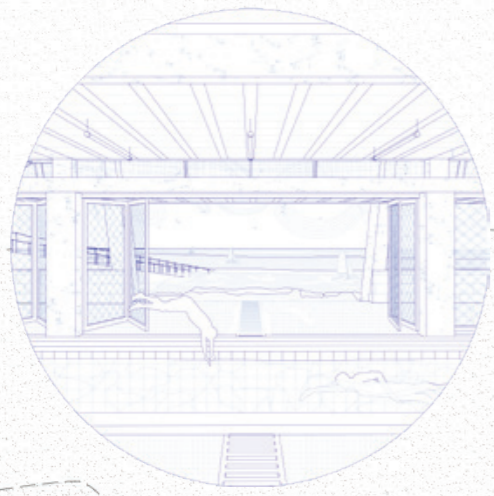




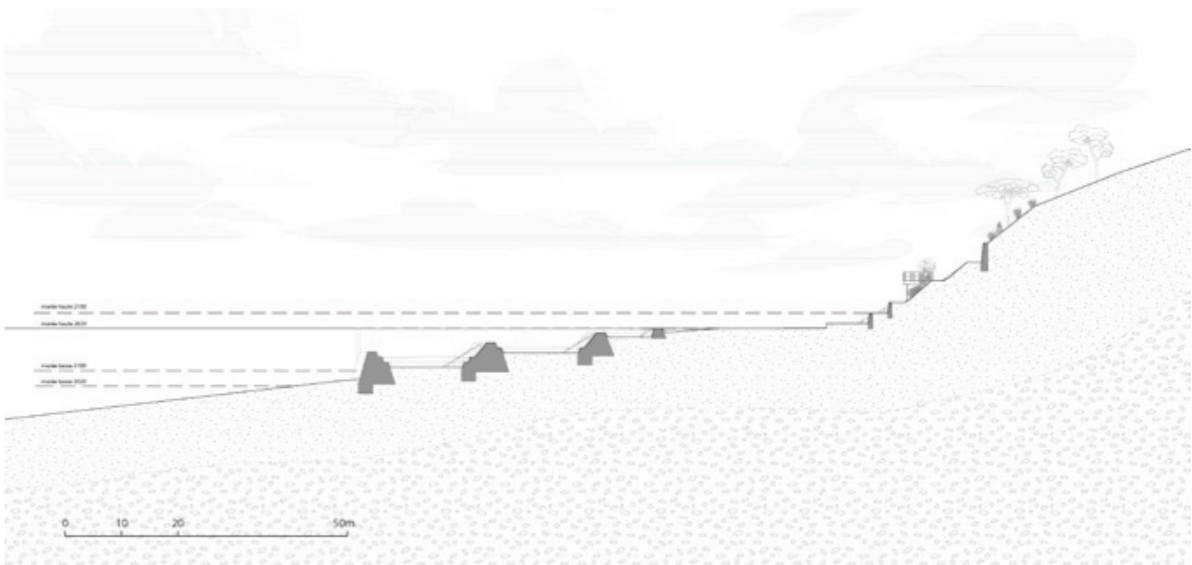
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Maxence Heidert, Clément Paillon, Marie Przepiorski de Cay, Quentin Toulemonde



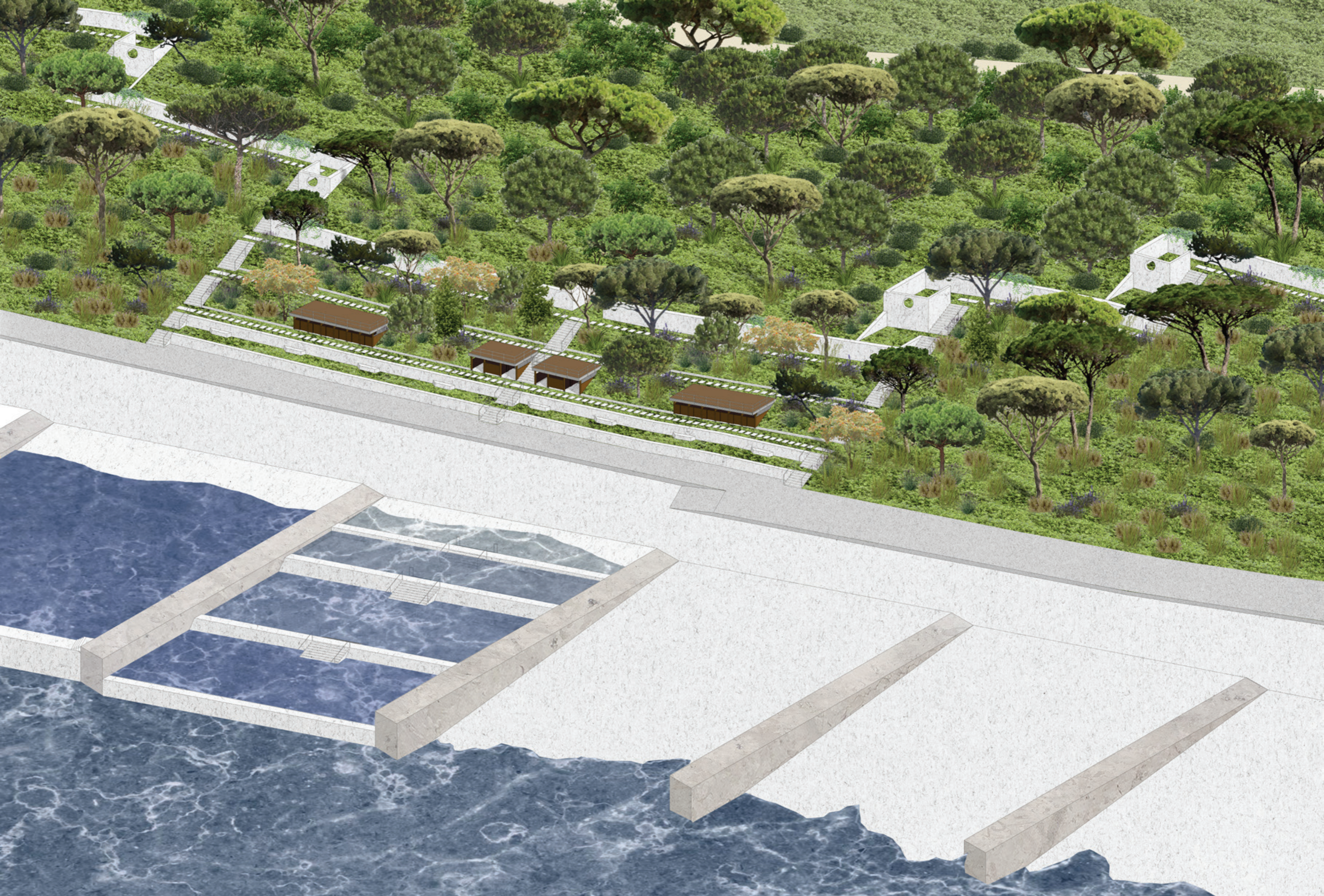


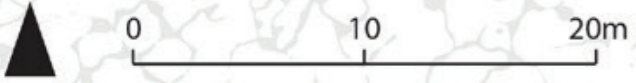
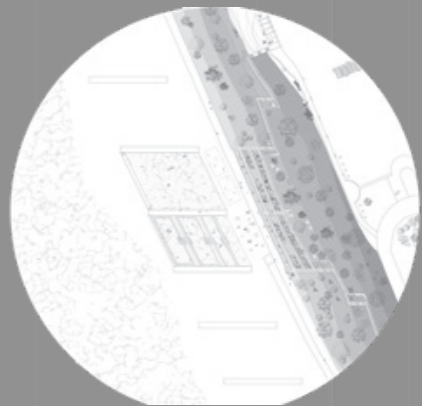
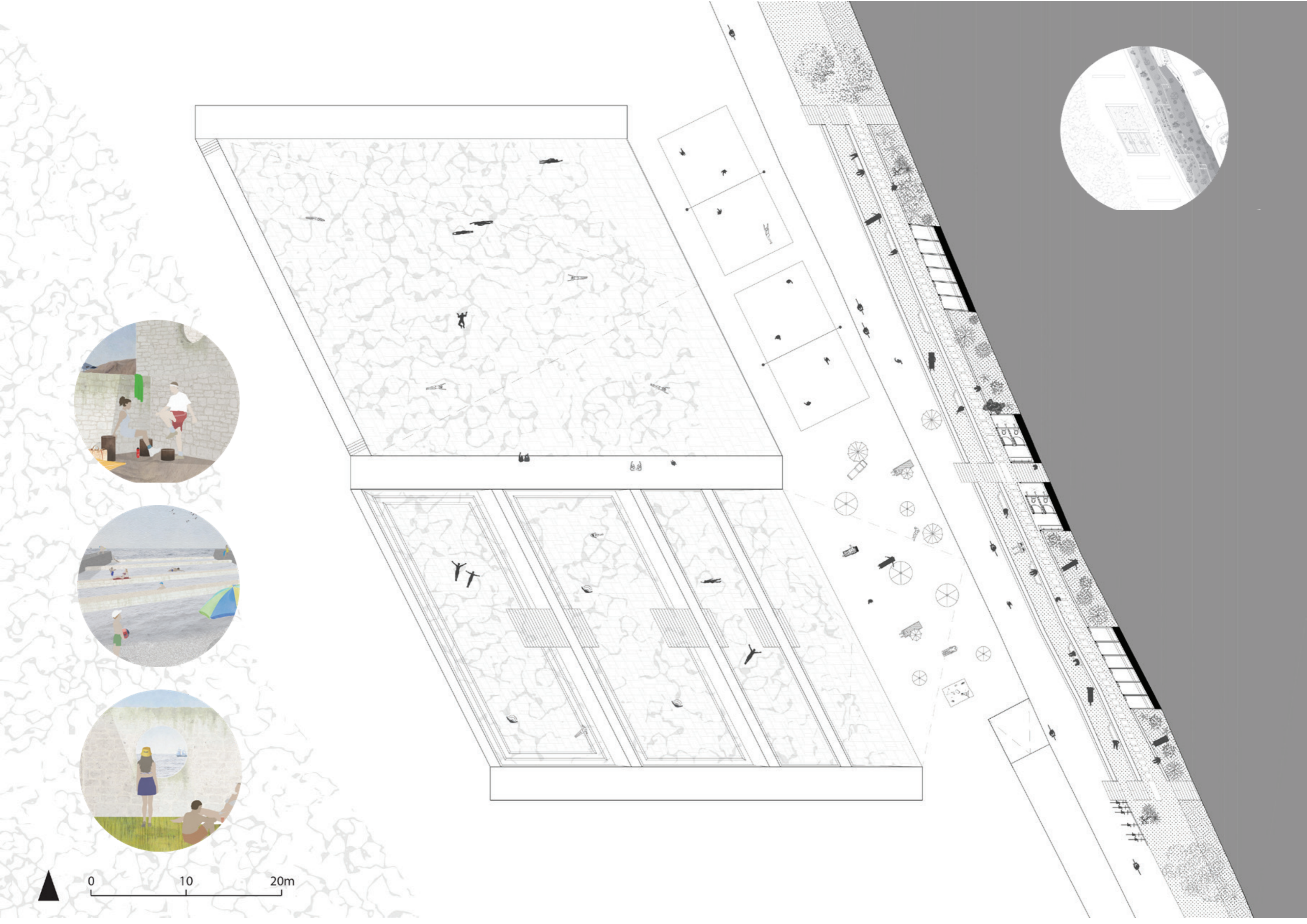




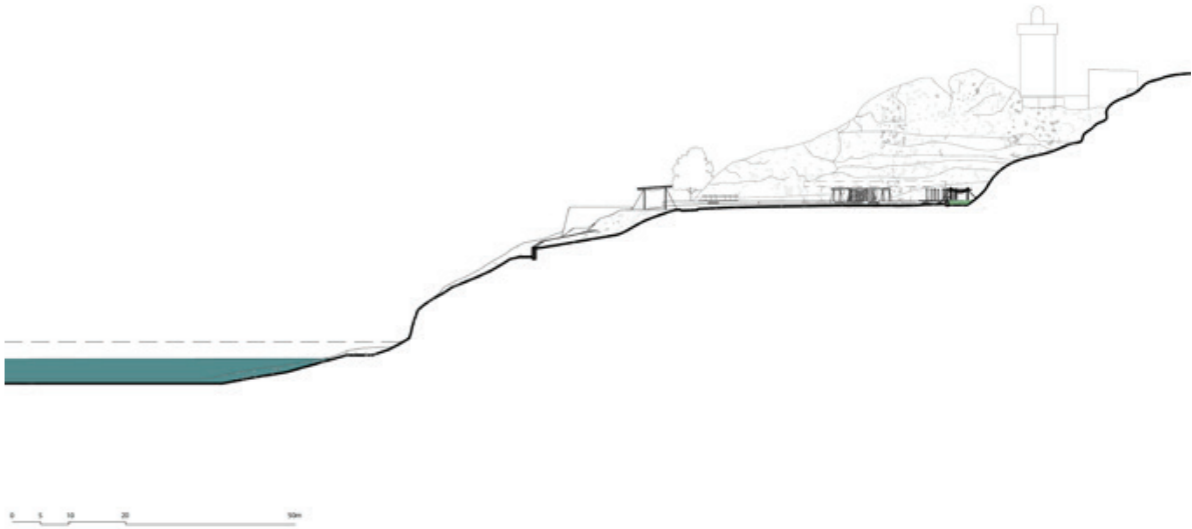
02 Bodycare - Solarium

Gregoire Lortie, Laura Neumann, Louis Chessé









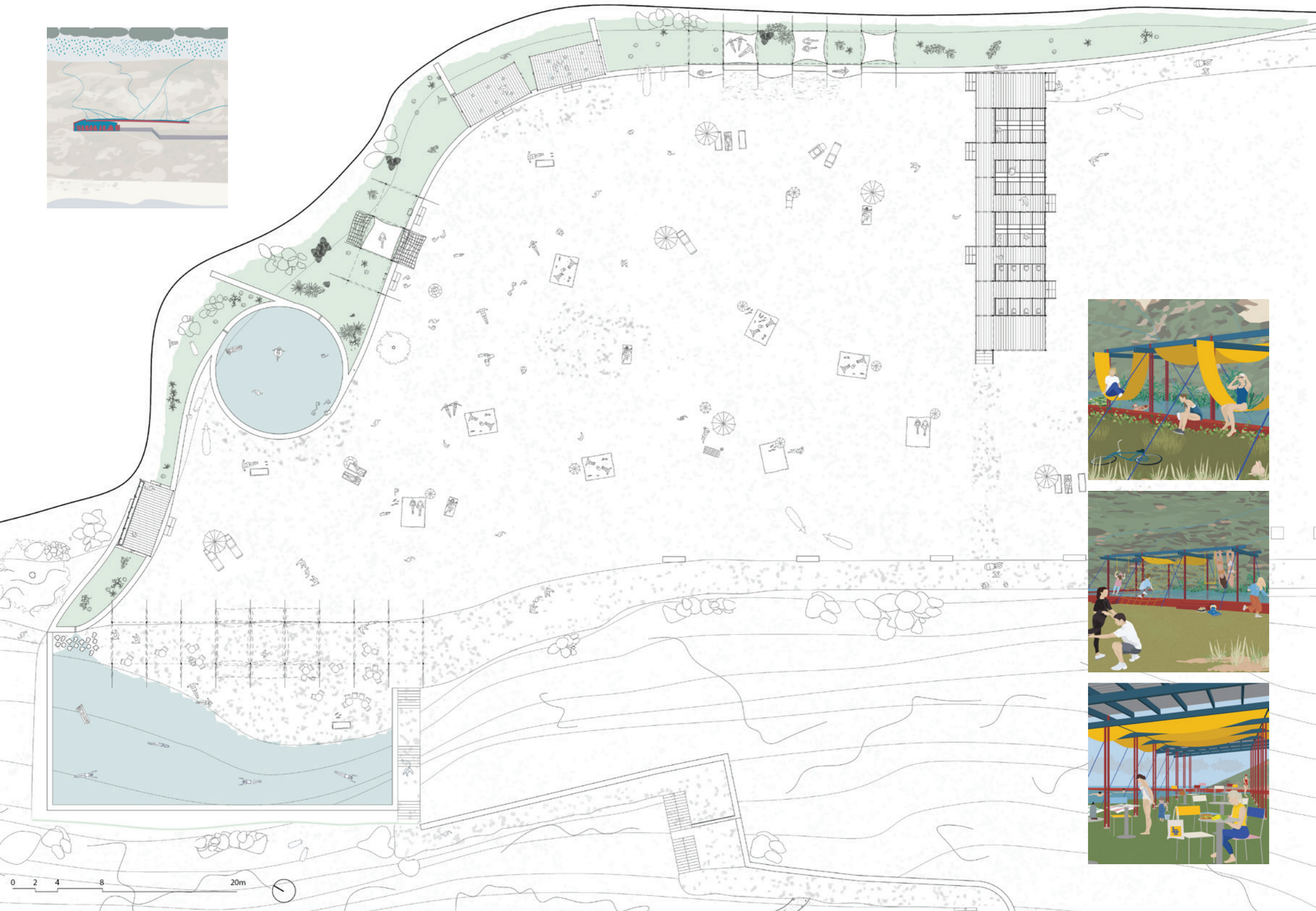
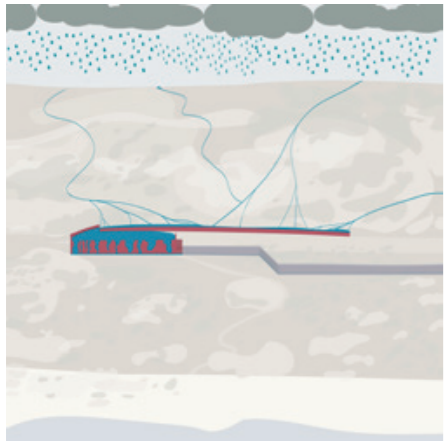
03 Cliffside swimming pool

Agathe Convert, Alexis Da Costa, Camille Perillat

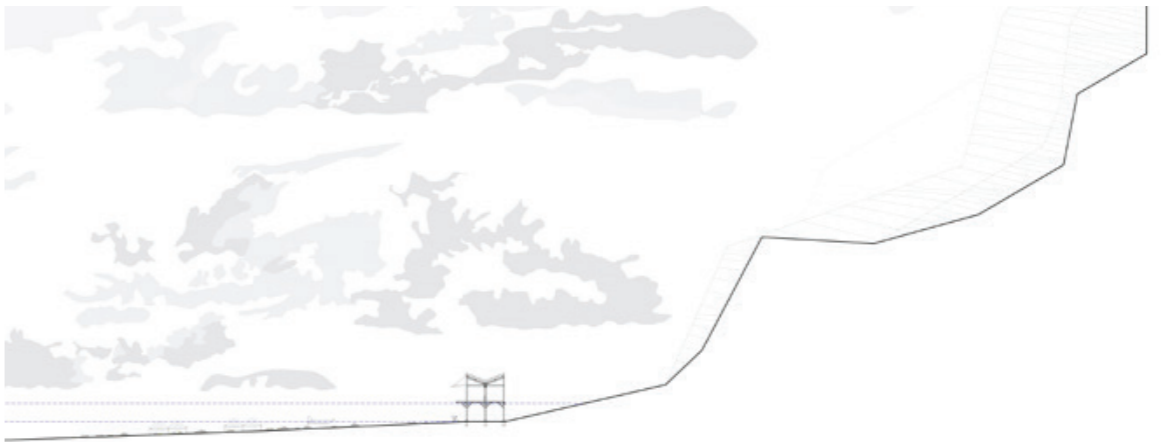


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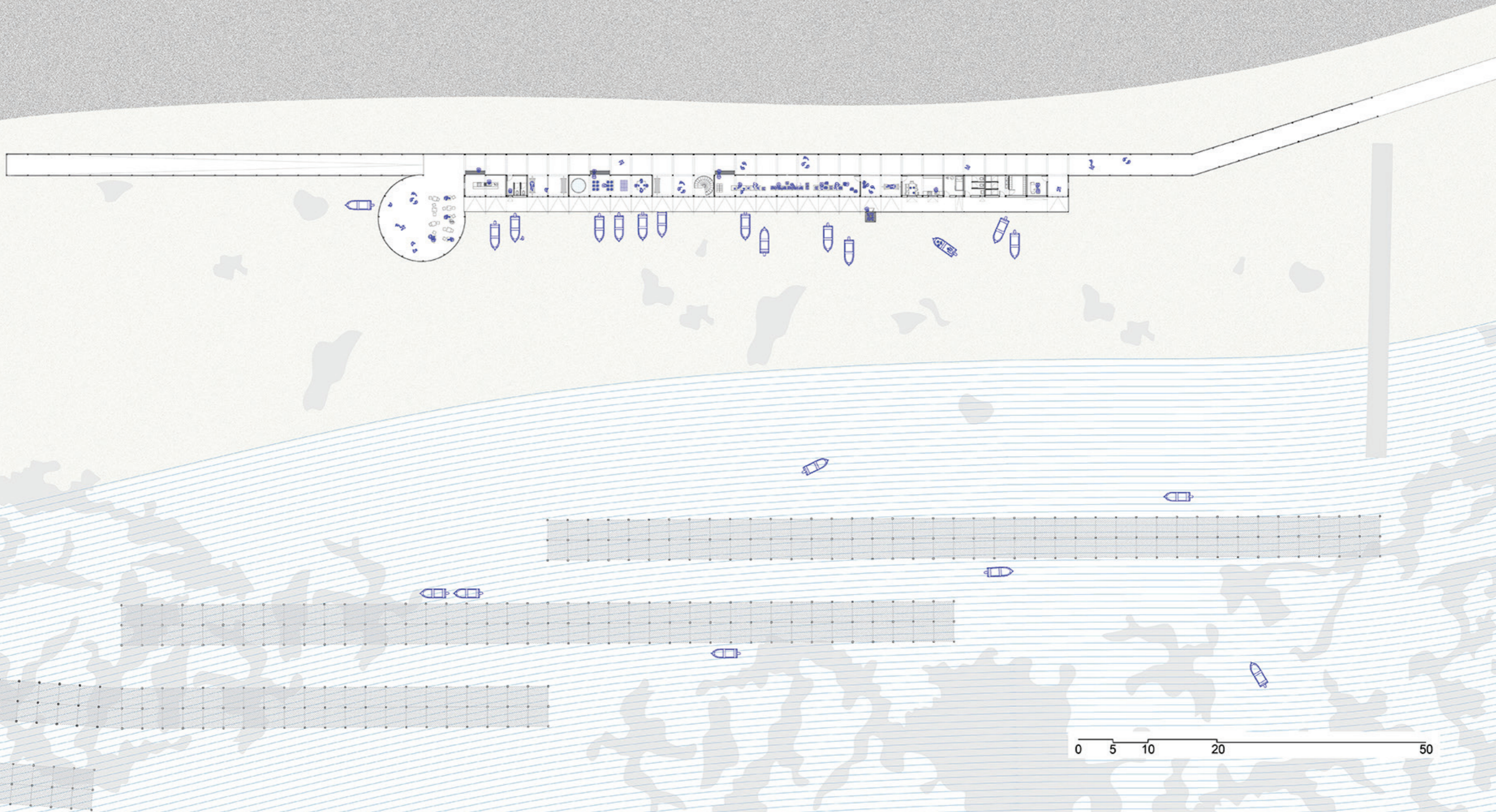
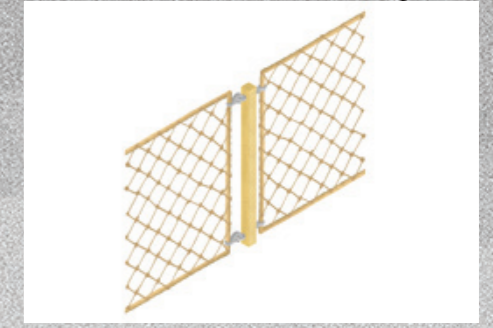
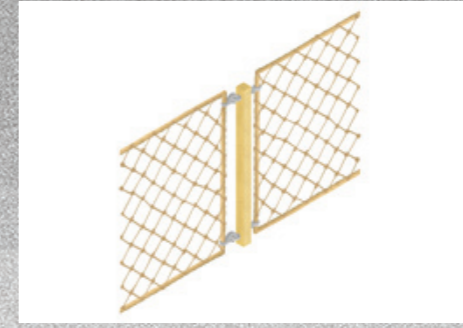
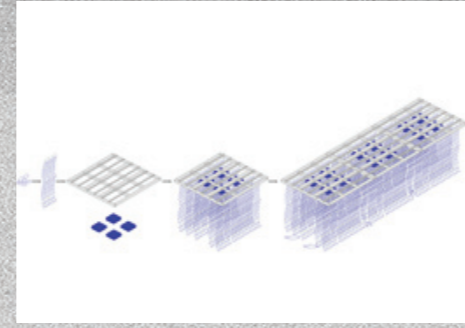
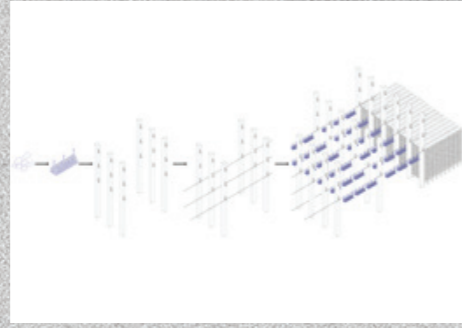




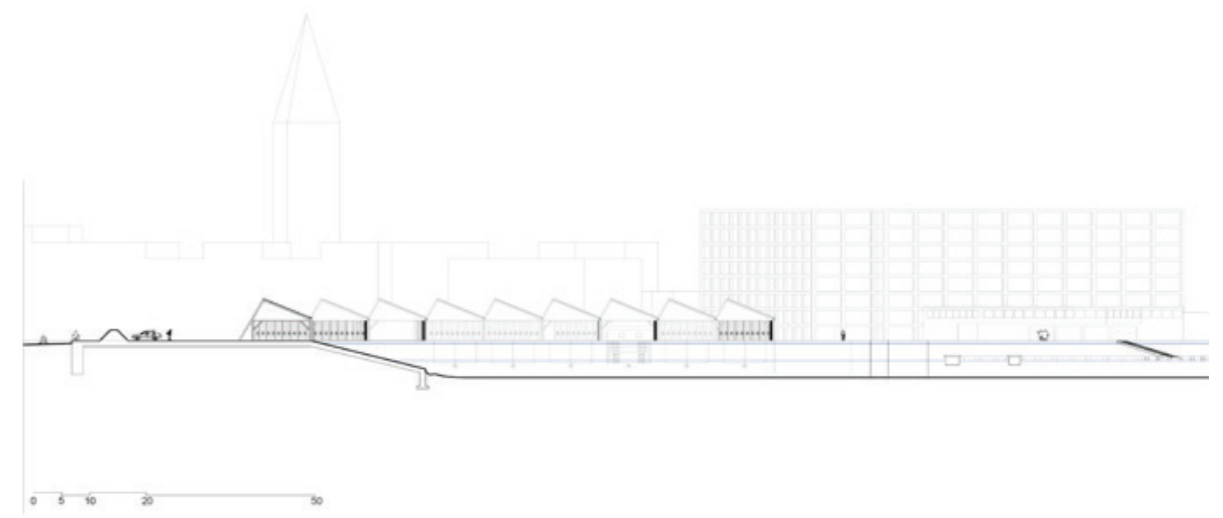
04 Oyster Farming

Mariam Bedraoui Drissi, Nelu Dragomir, Casey Isidor





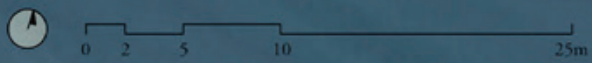
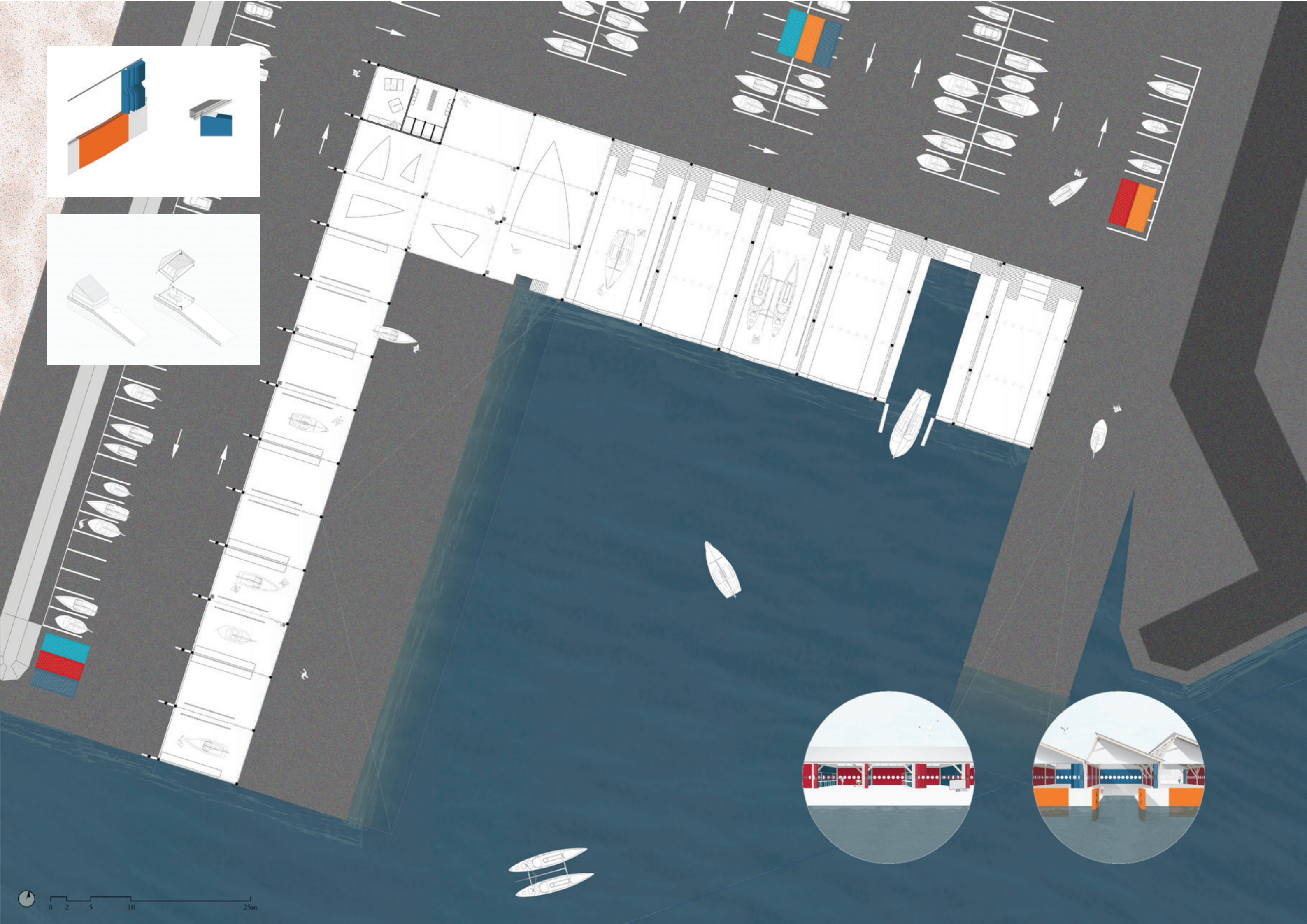
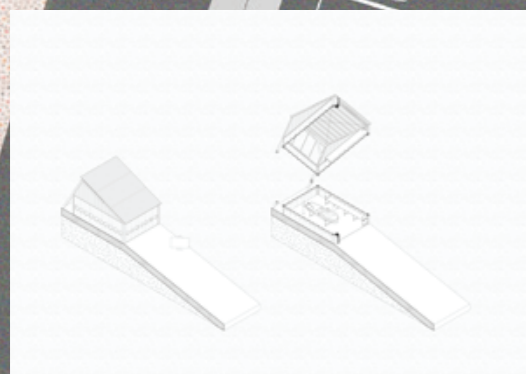
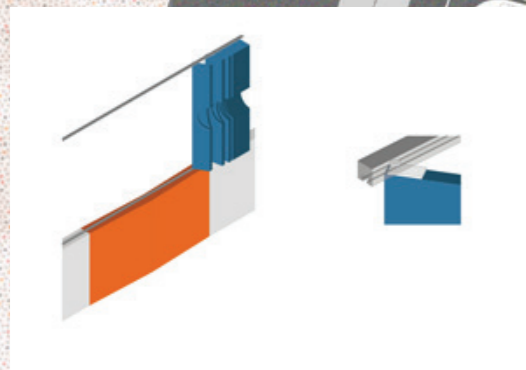


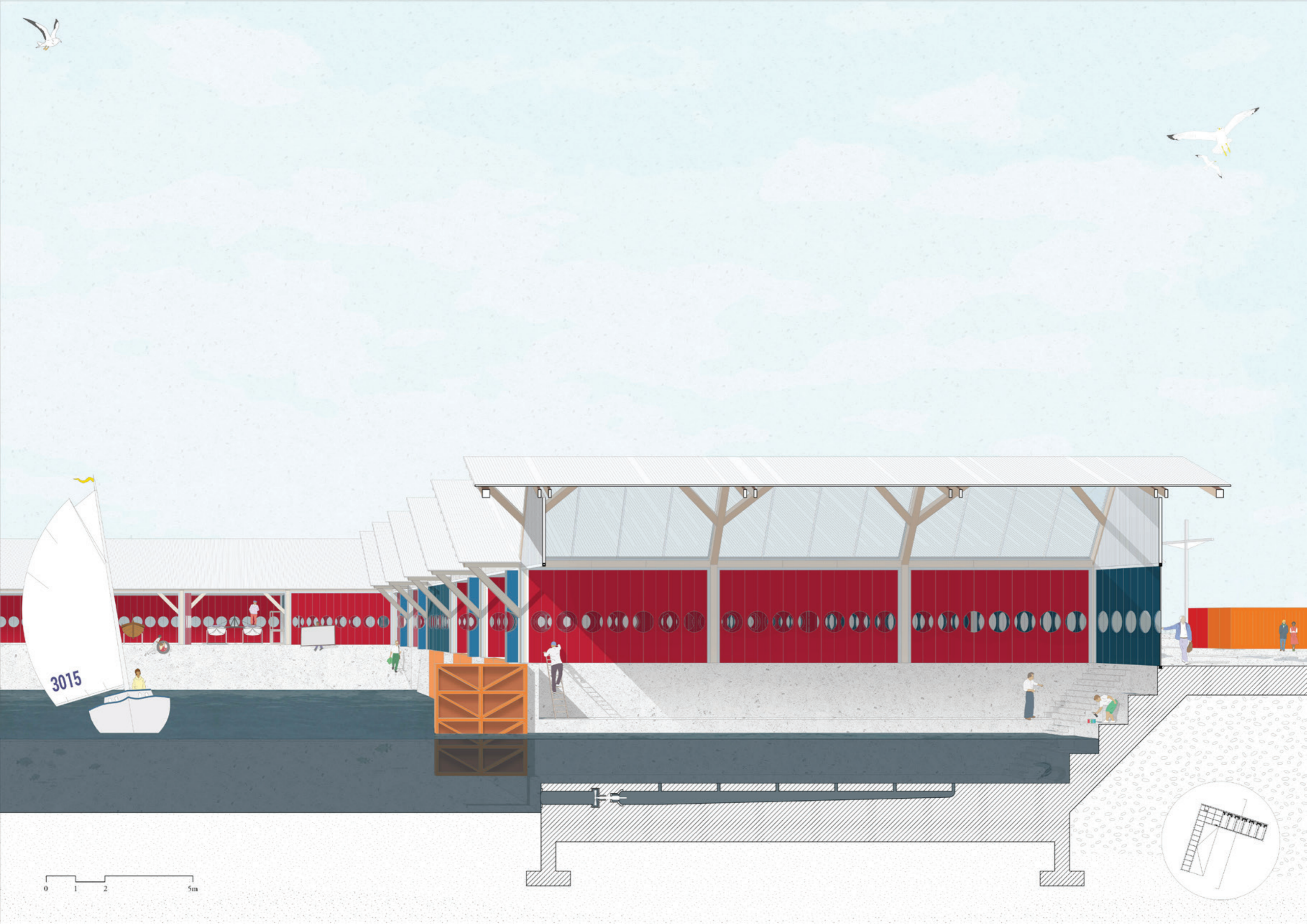


05 Boat repair

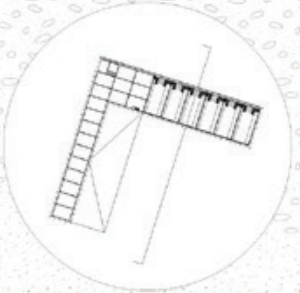
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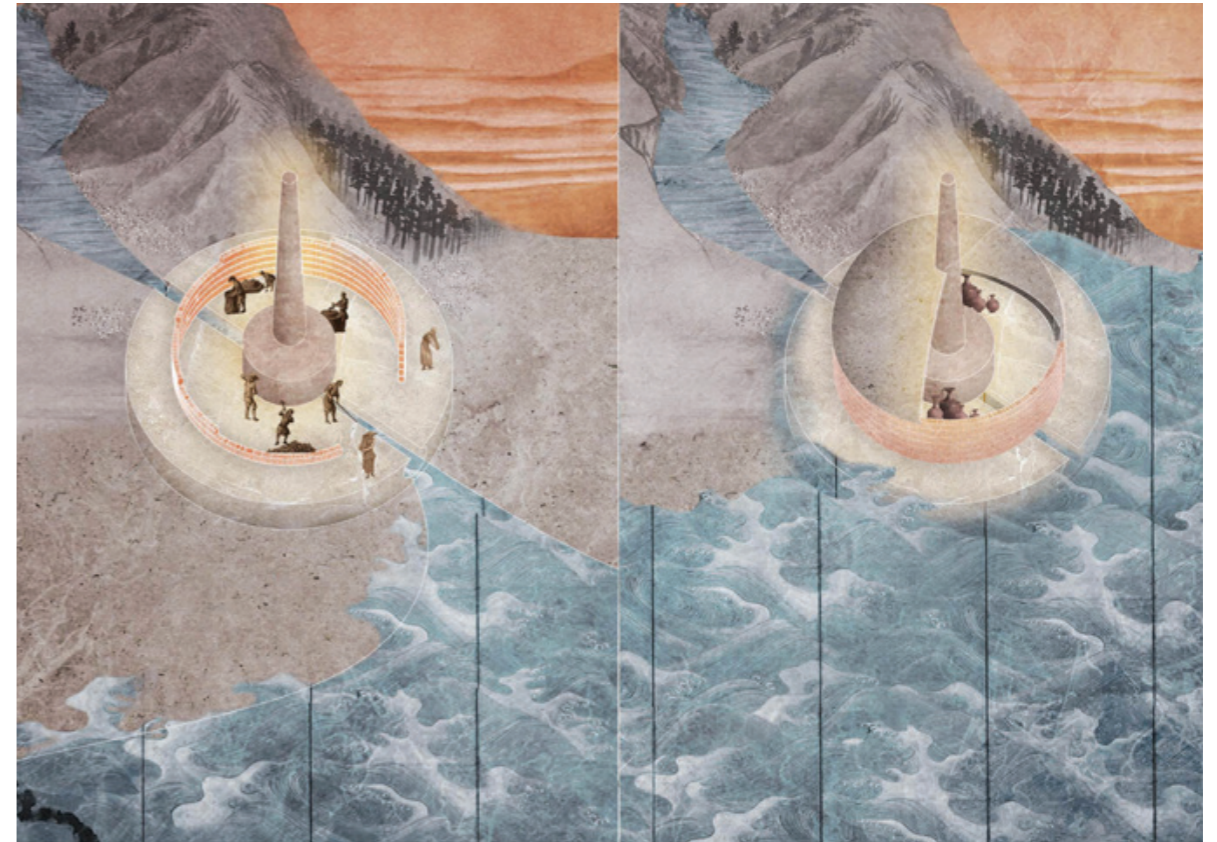






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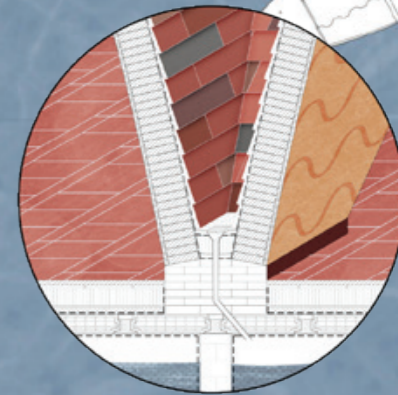
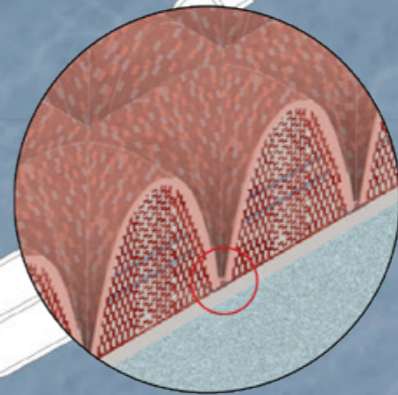
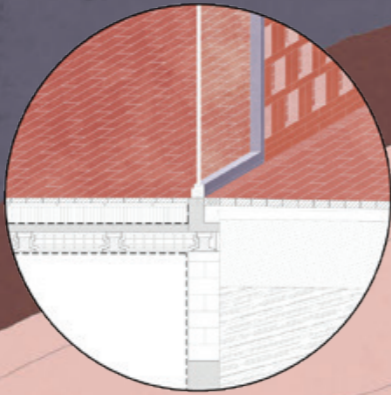
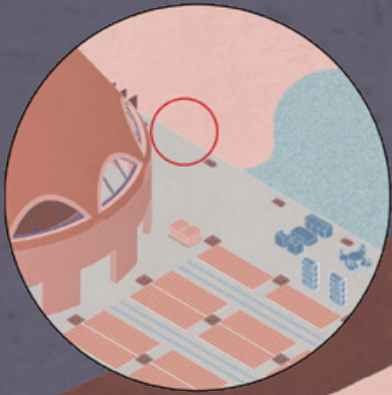
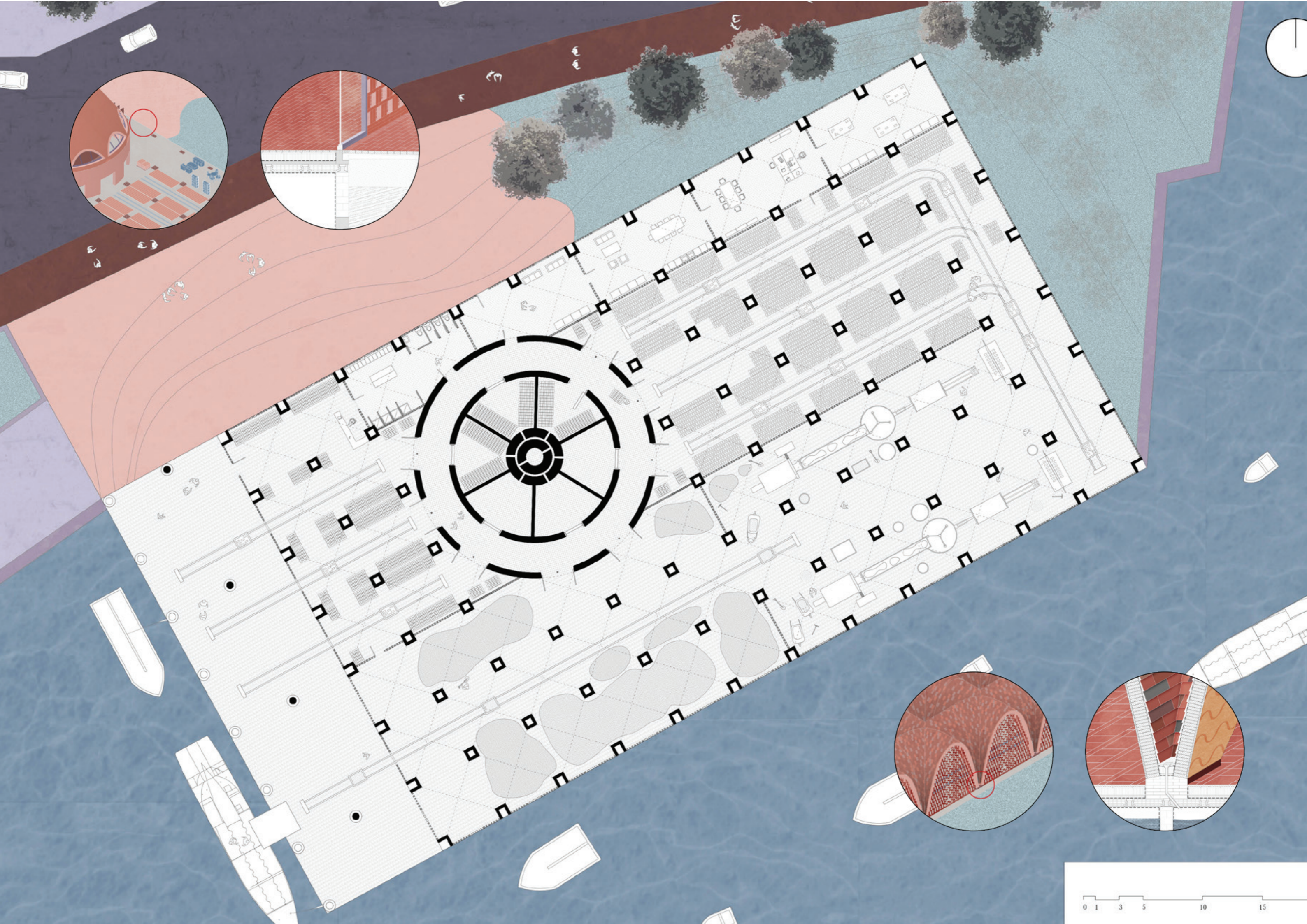


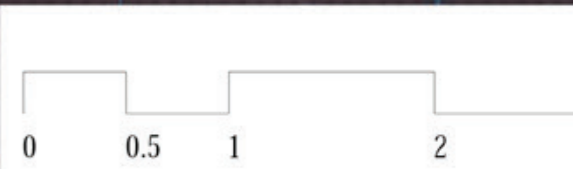


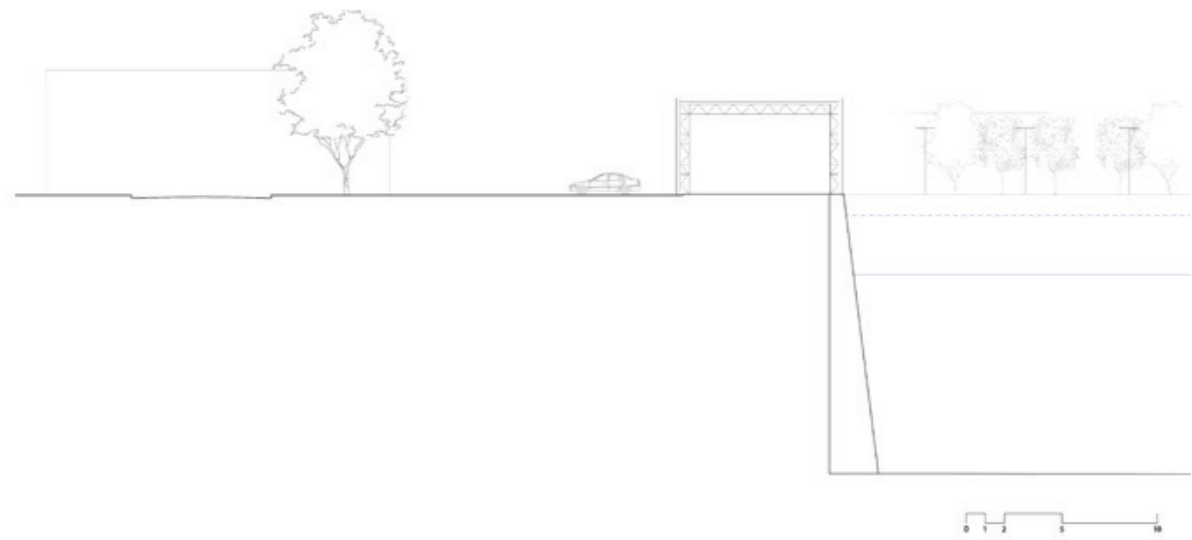
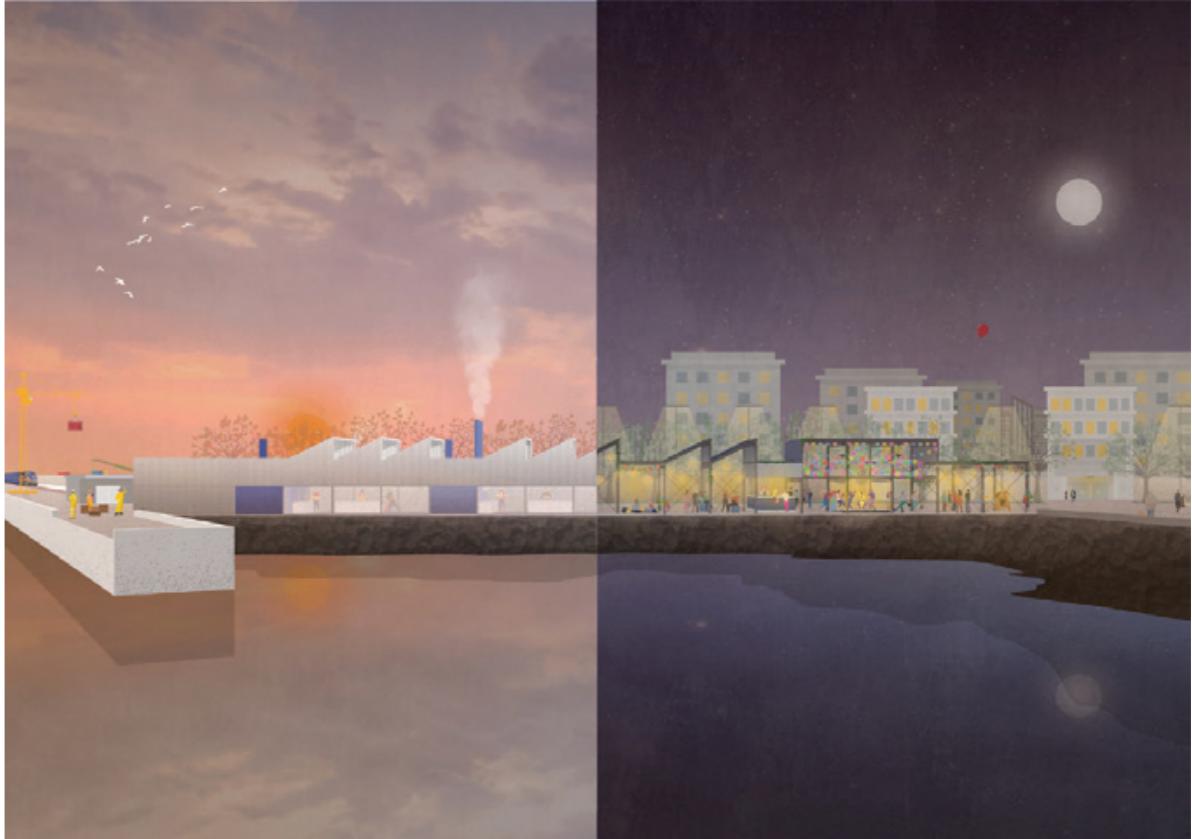
06 Another brick in the wall

Simon Cheritat, Valère Hognait, Cynthia Tréport





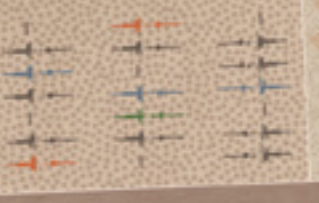




07 Cannery

Enzo d'Auria, Gabriel Flor de Oliveira, Melhing Roselet

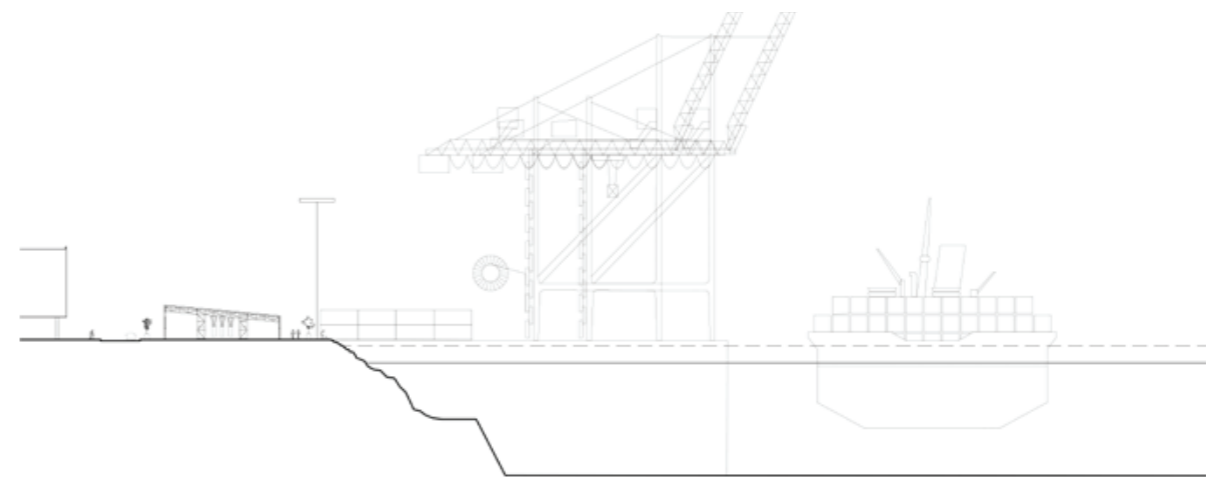
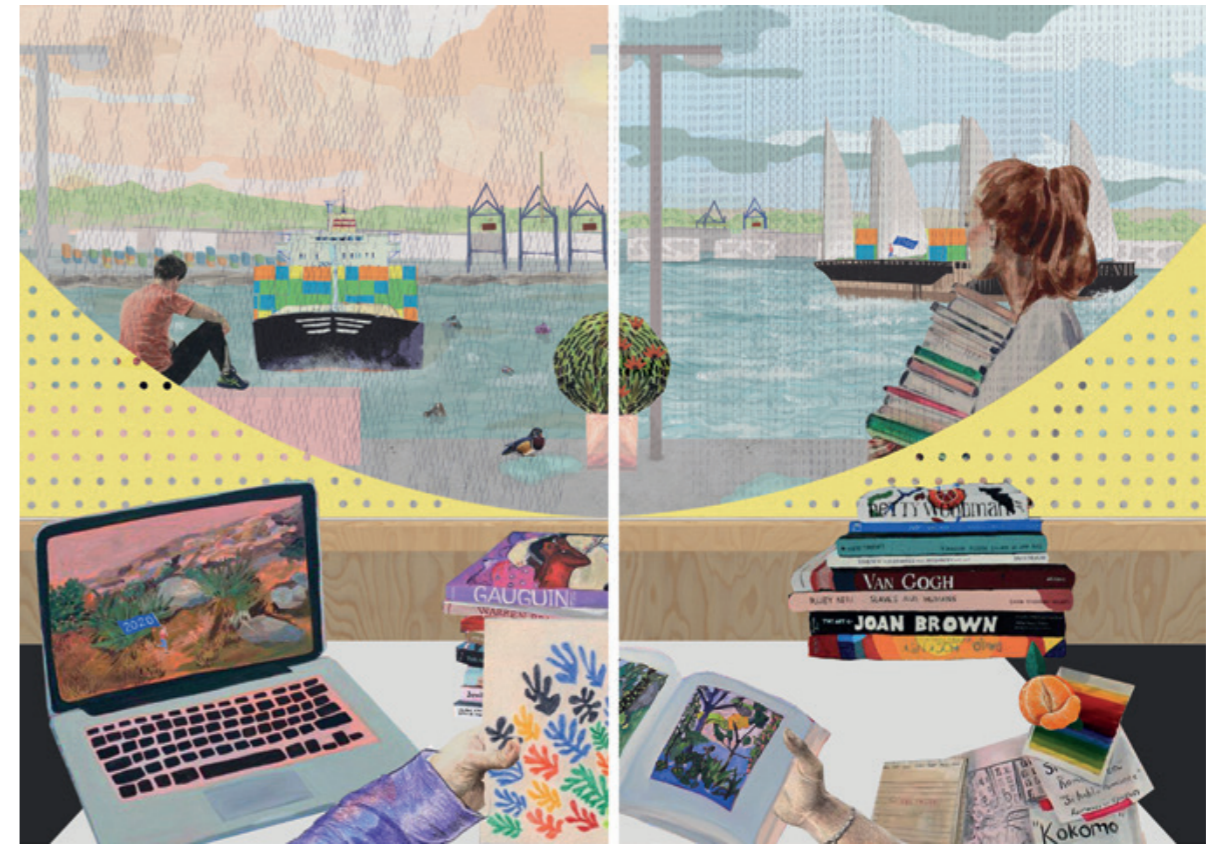




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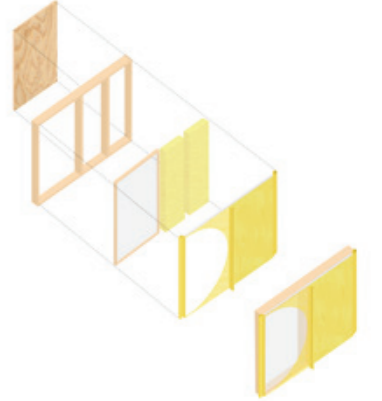
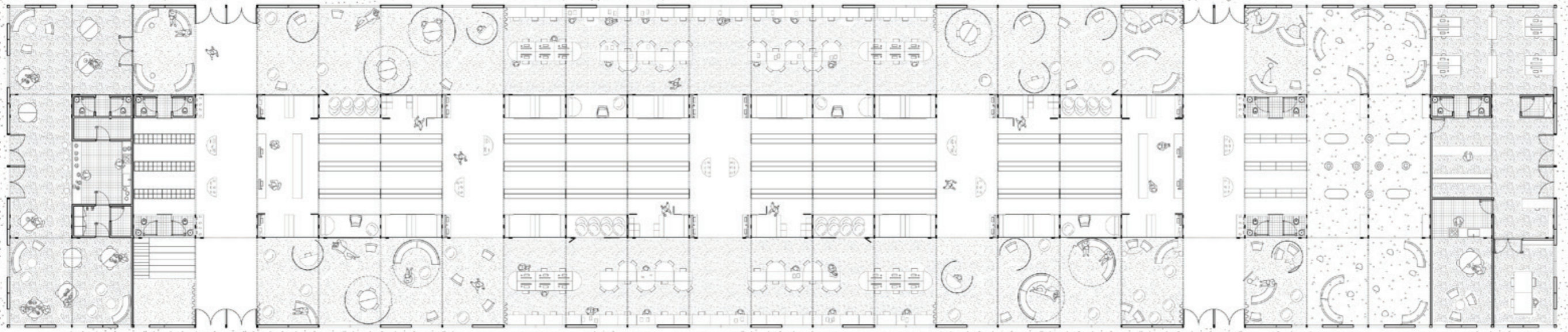


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08 Books by the Ocean

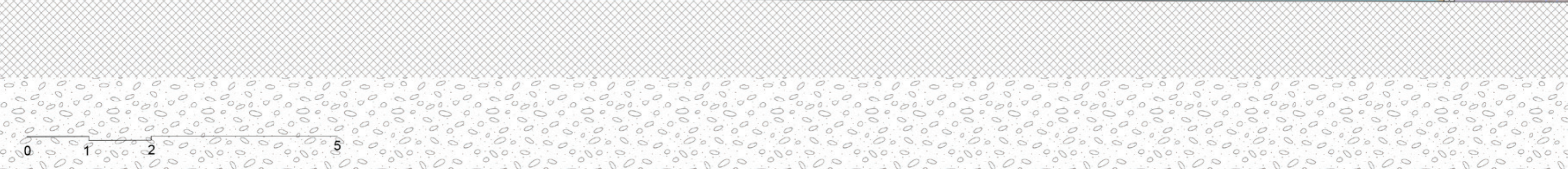
Khadija Barkani, Myriam Berthier, Shaojun Luo, Eva Morin





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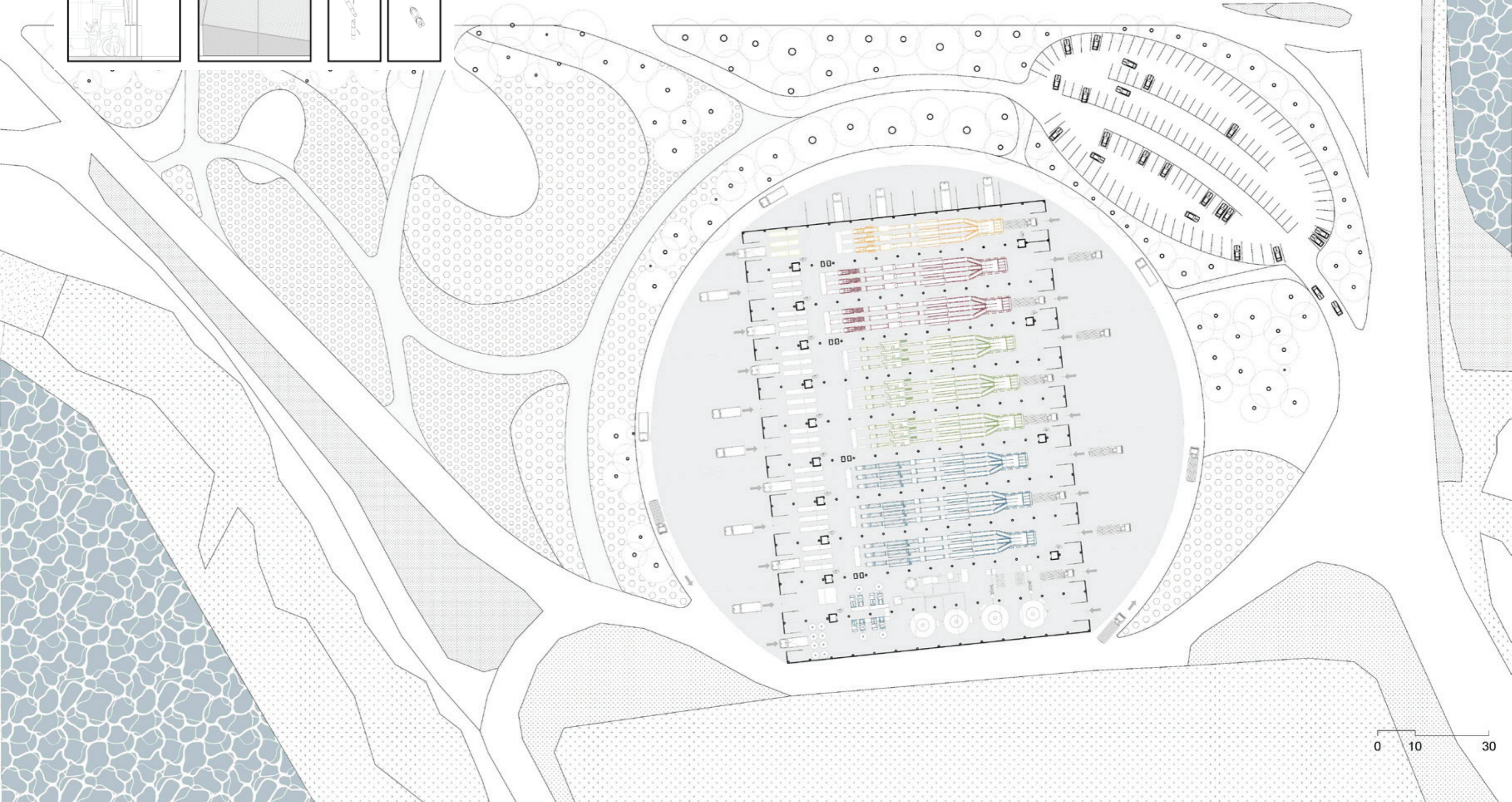
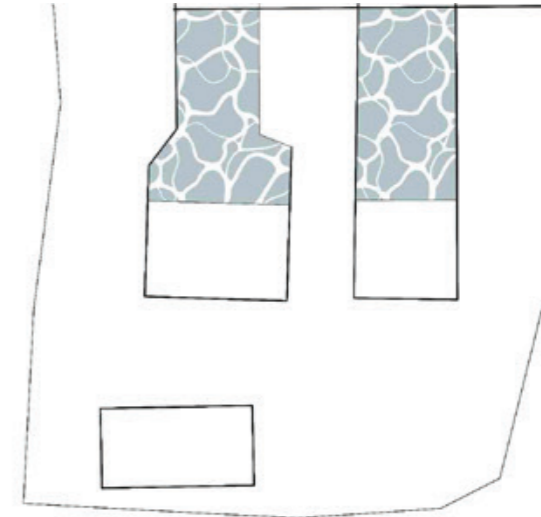
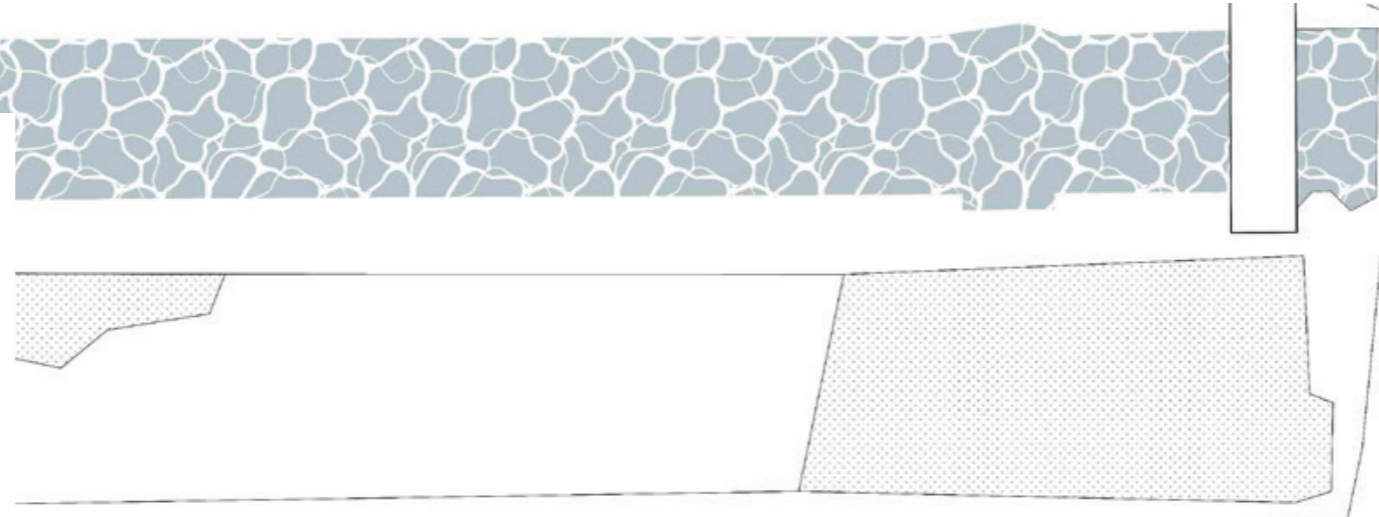
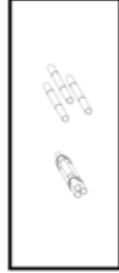
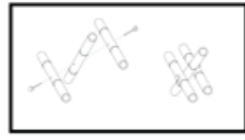
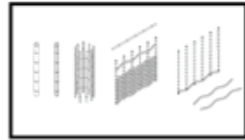
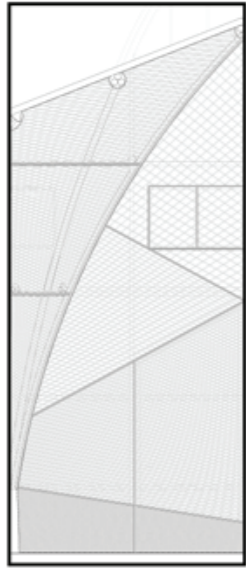


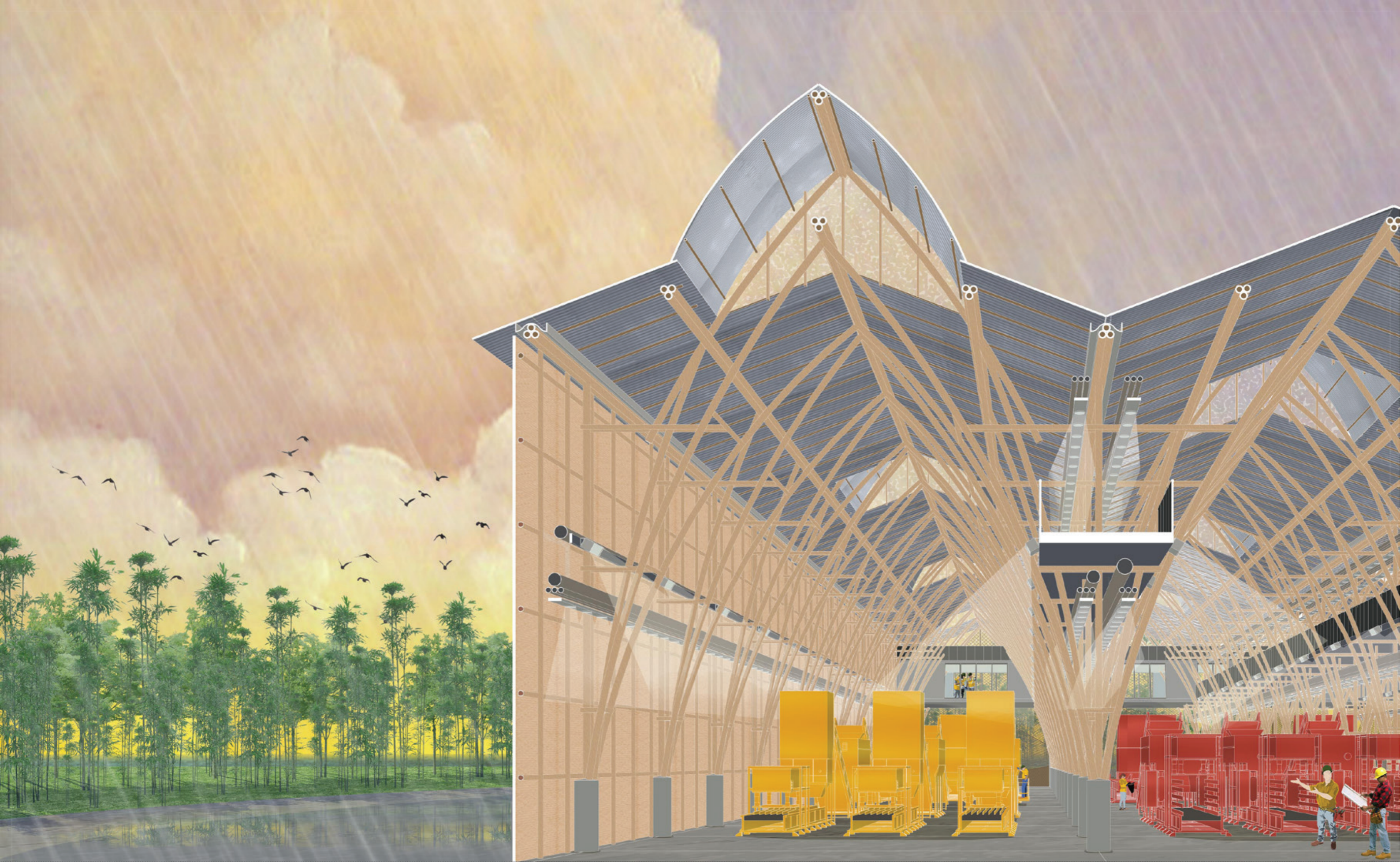


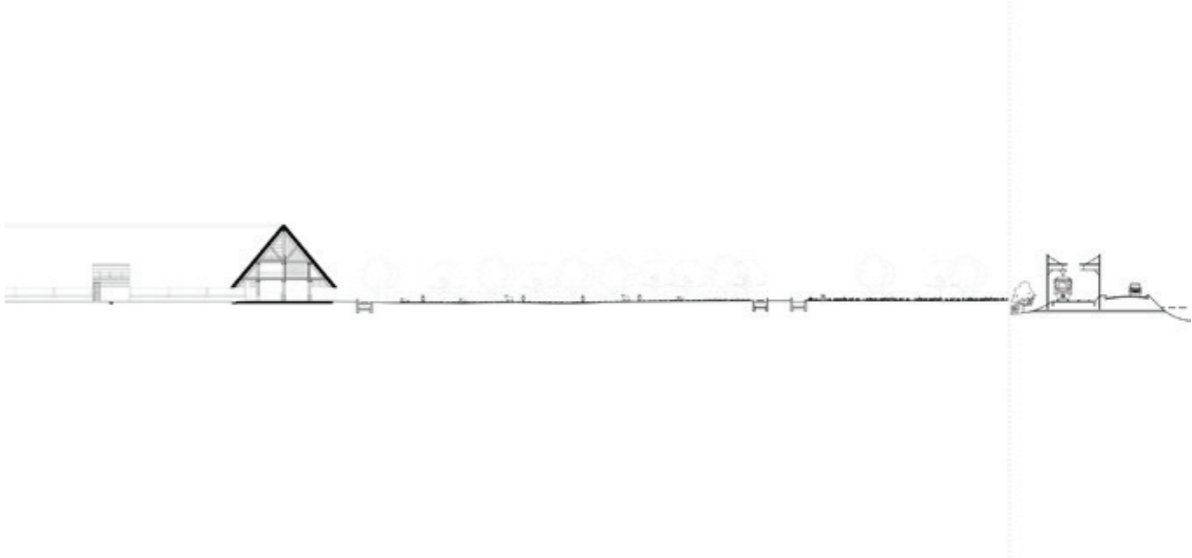
09 Sorting center

Helena Kocik, Bouchra Larbi Bouamrane, Gabriel Santos





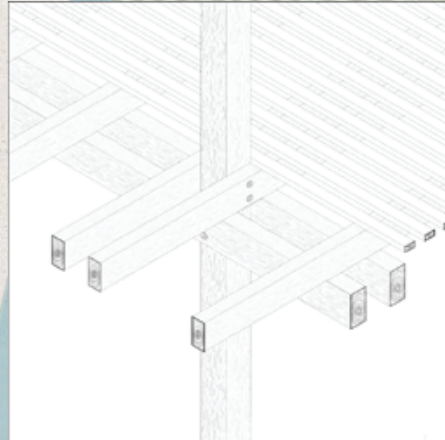
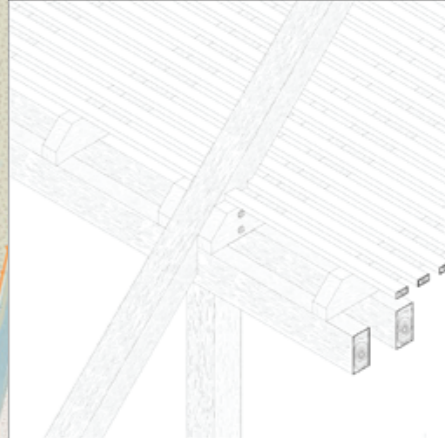
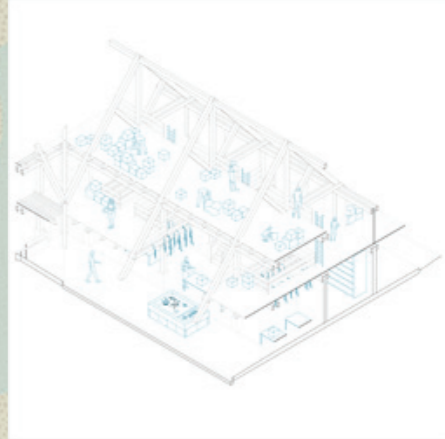
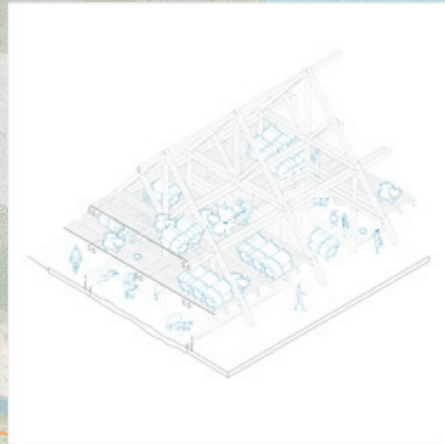
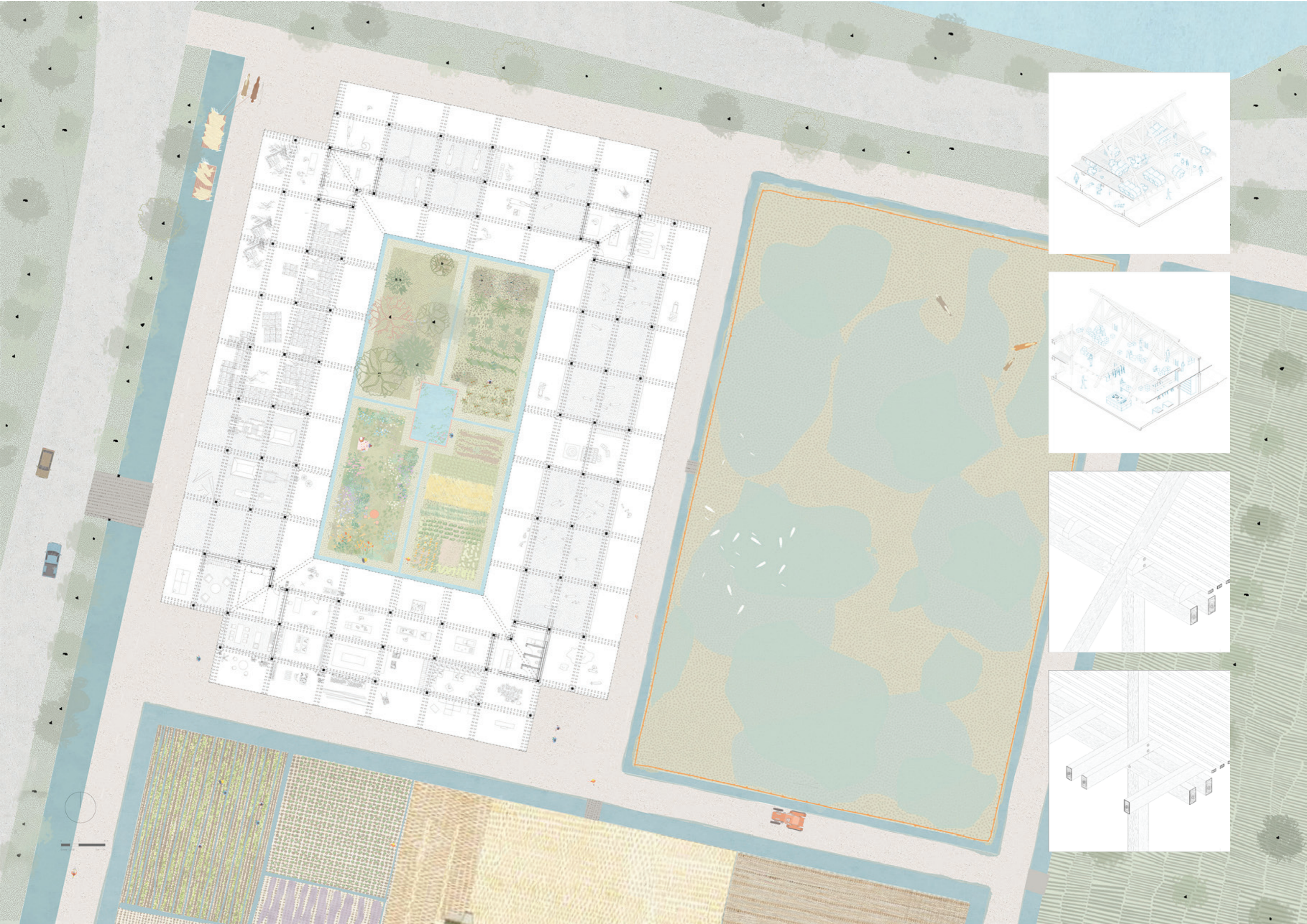




10 Salt water farming

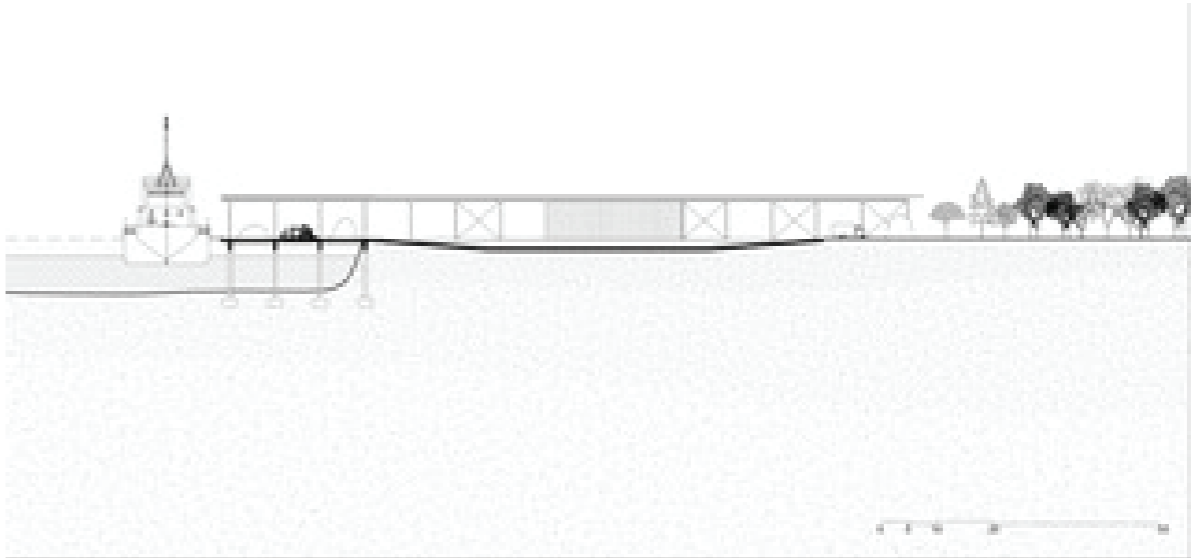
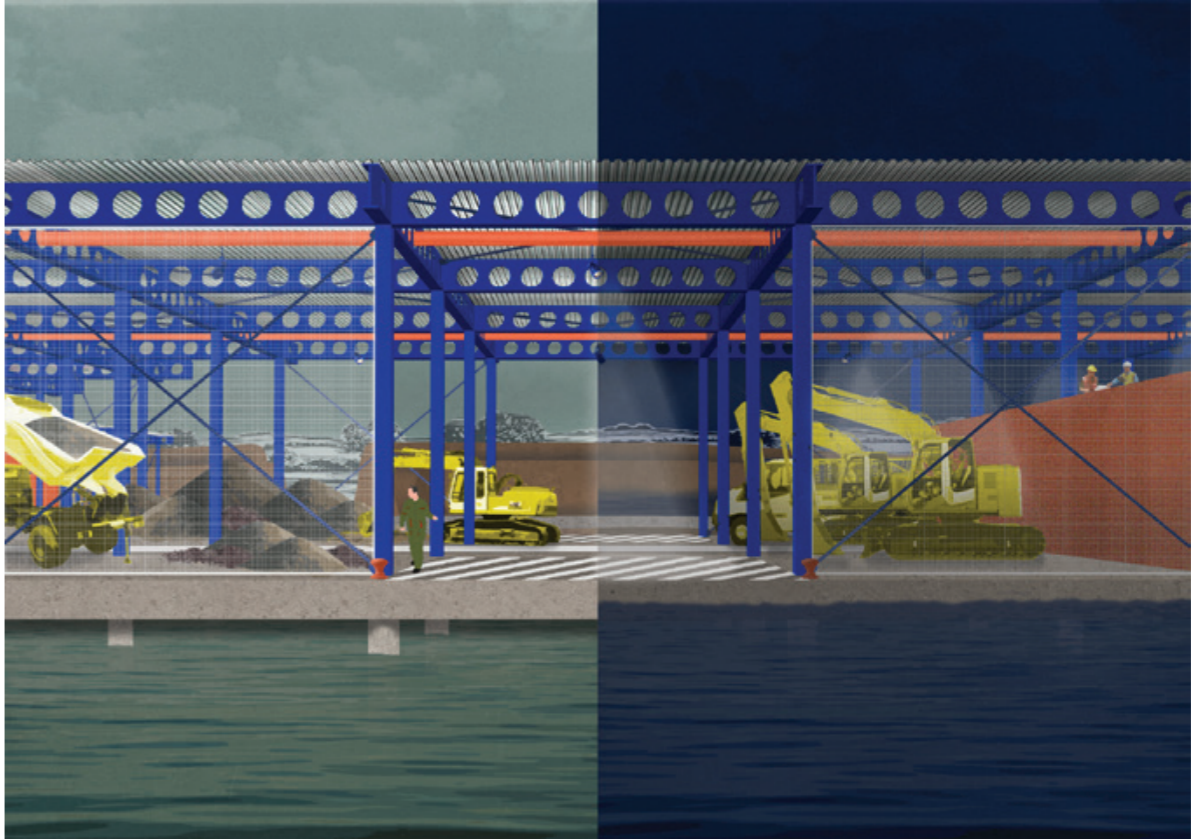
Margot Sustar, Soline Lengaigne, Thibaut Vilcoq







0 0.5 1 m 2 m

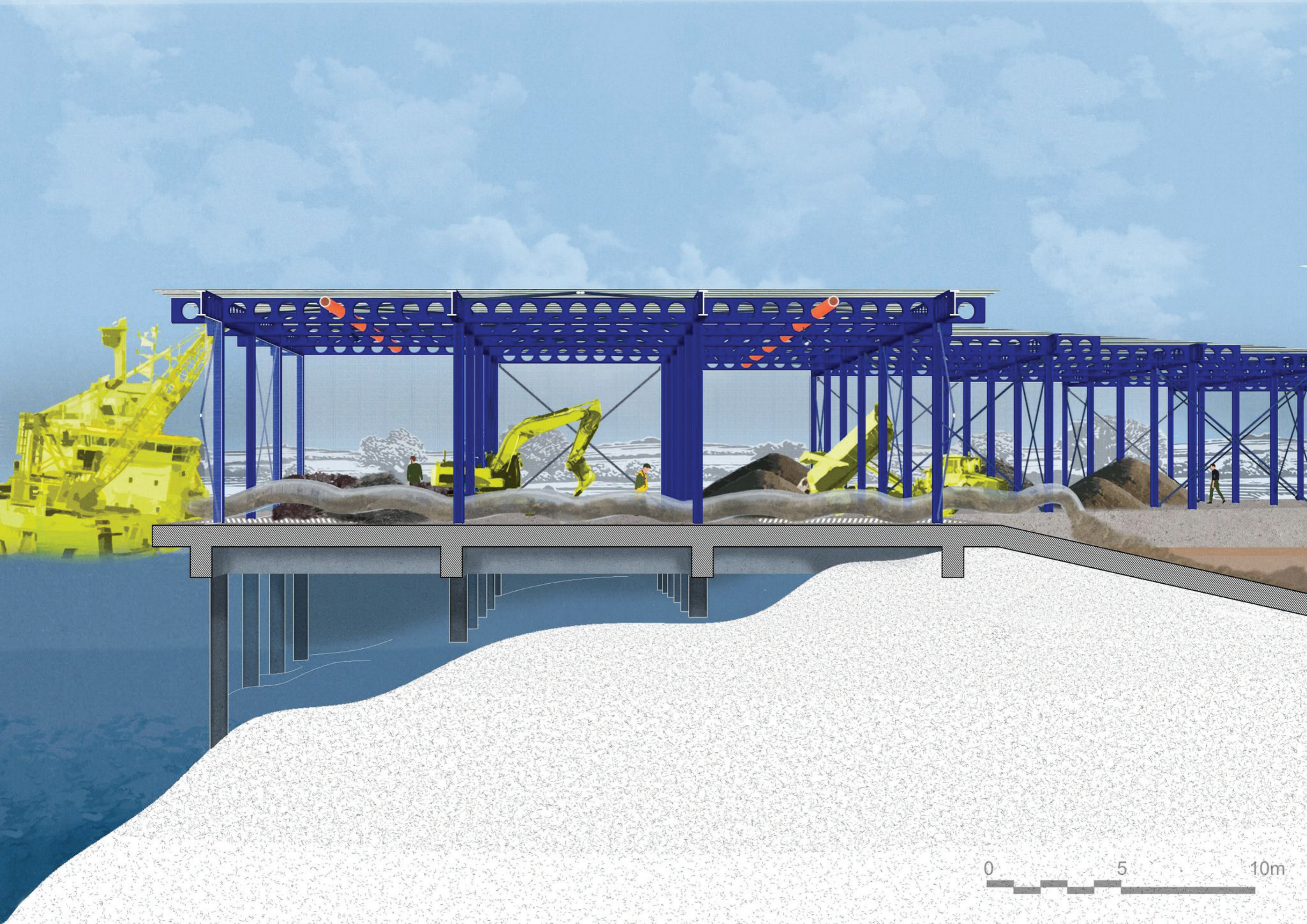


11 Canal & water maintenance

Anne Branchereau, Sirine Damir, Axel Eugene



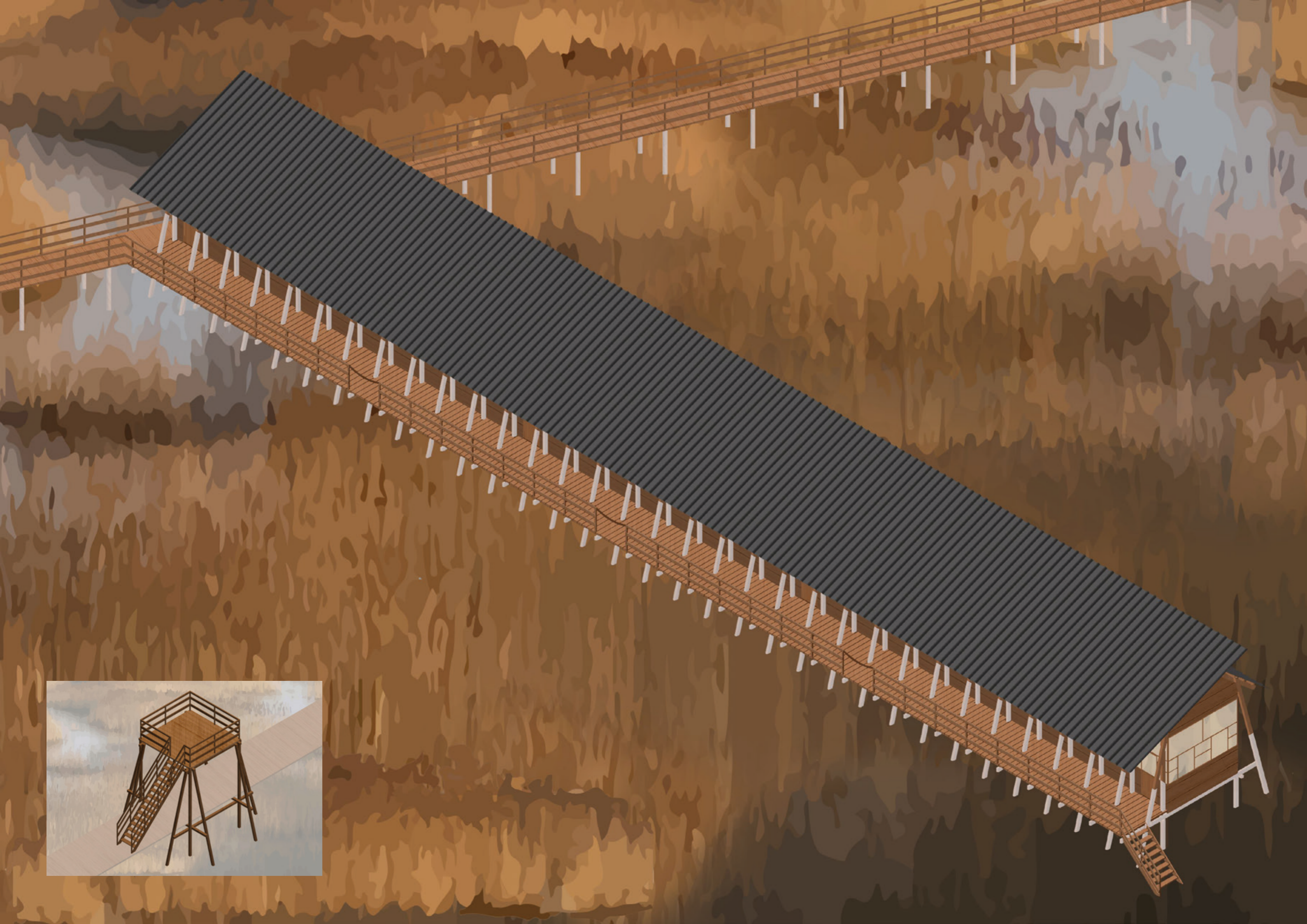


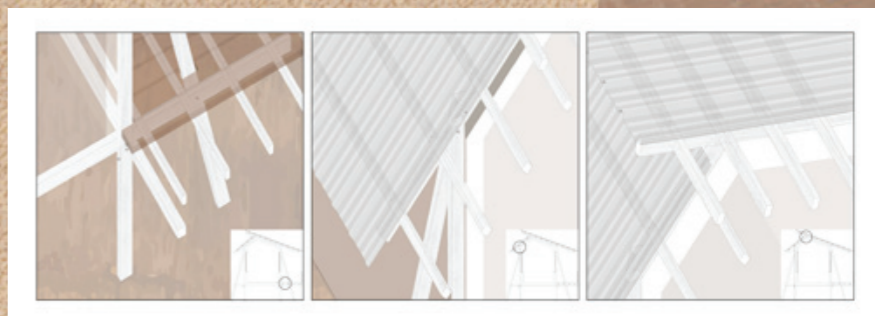
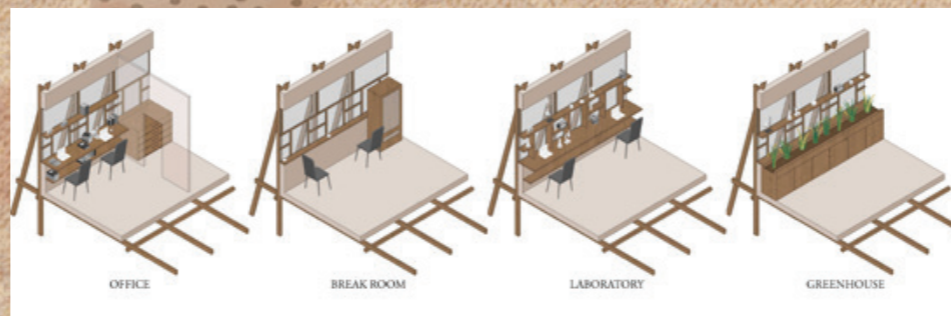
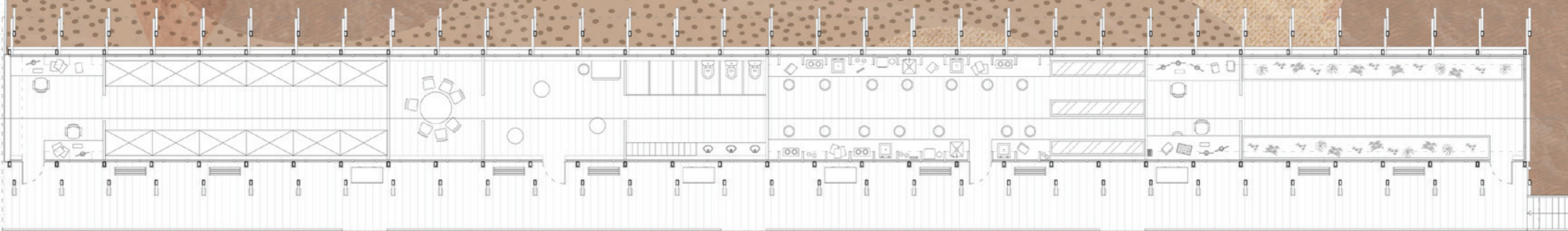




12 Oceanographic research center

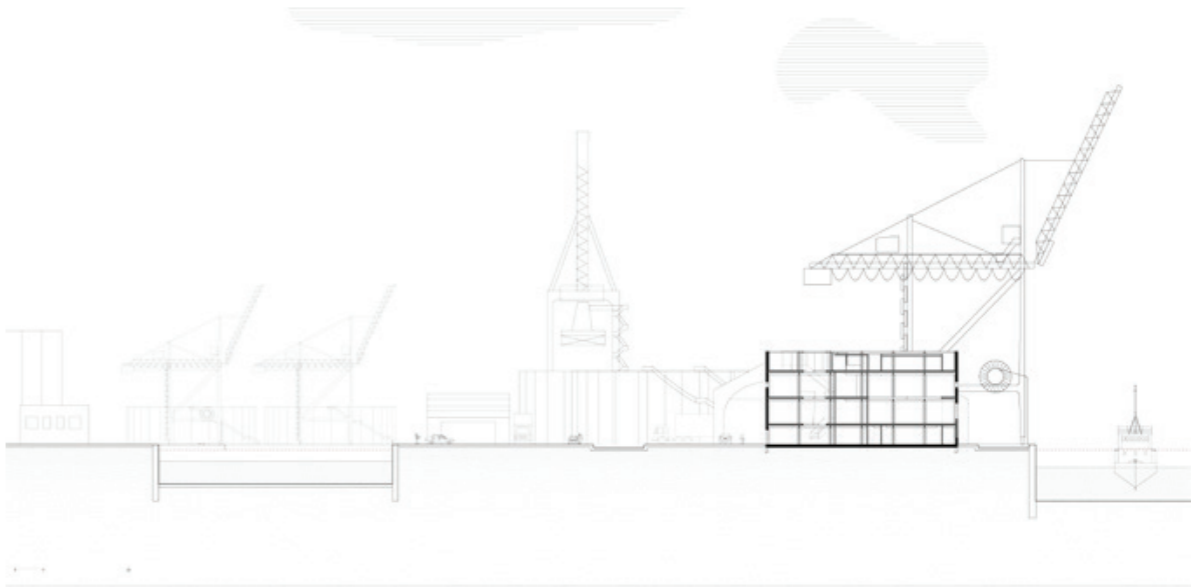
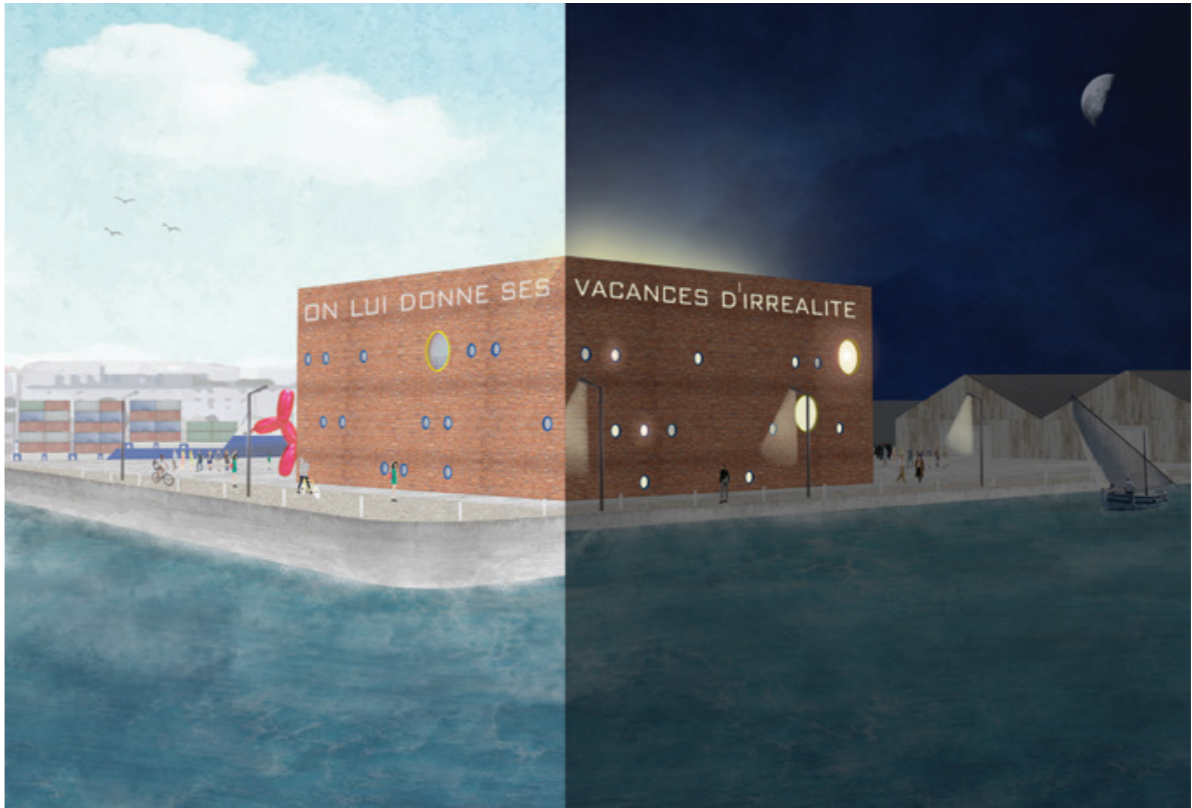
Florian Brehin, Flore Daurel, Clémence Hugues





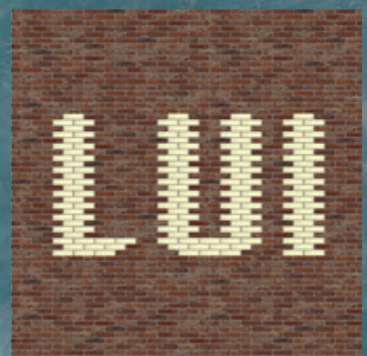
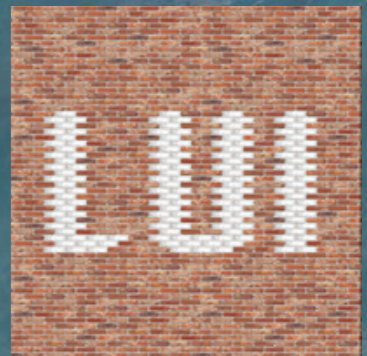
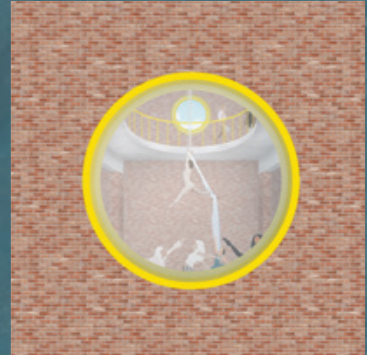


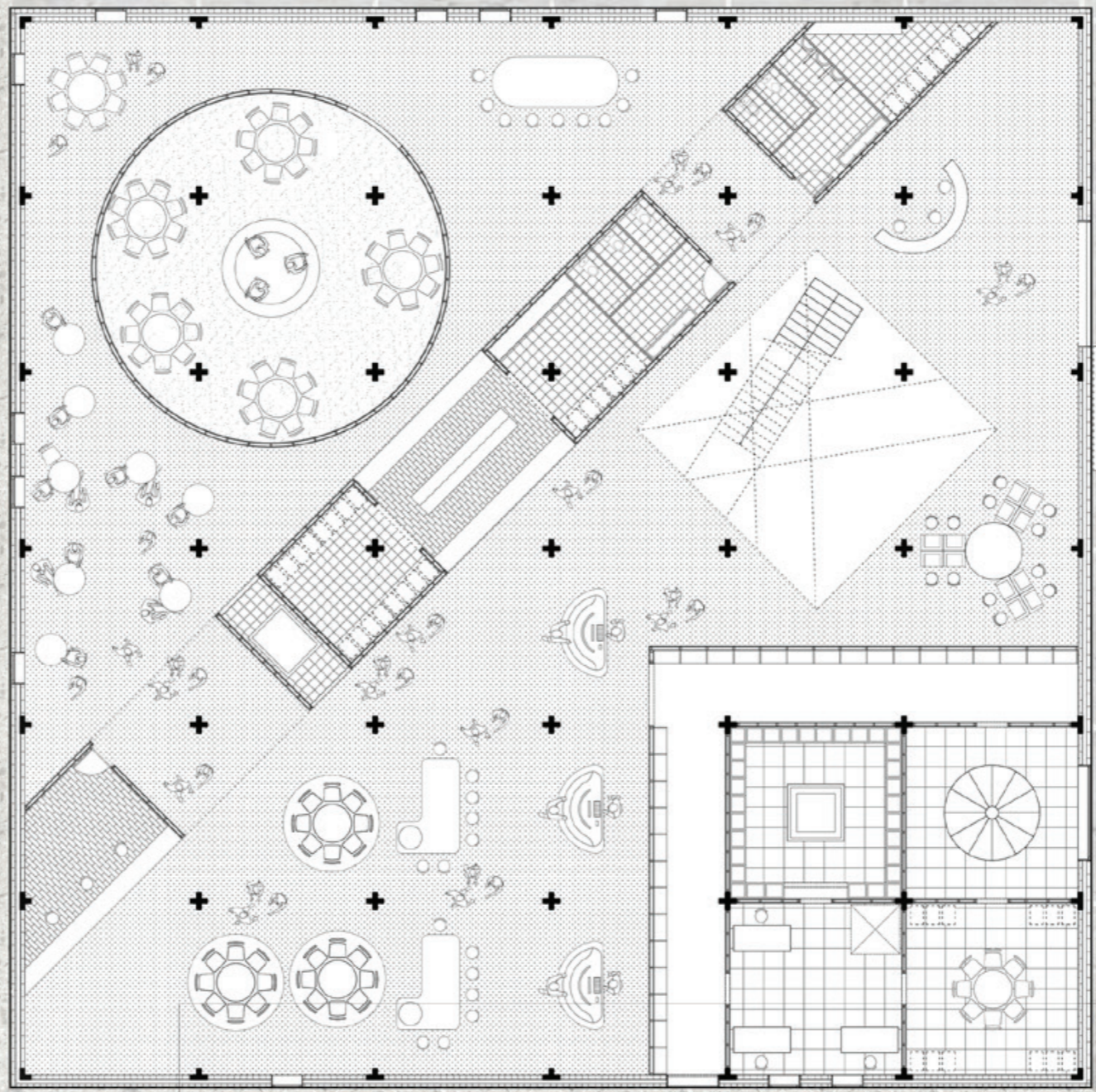
0 1 2m



13 Casino

Maxence Lelievre, Sarah Rodriguez, Lucas Vaudoux





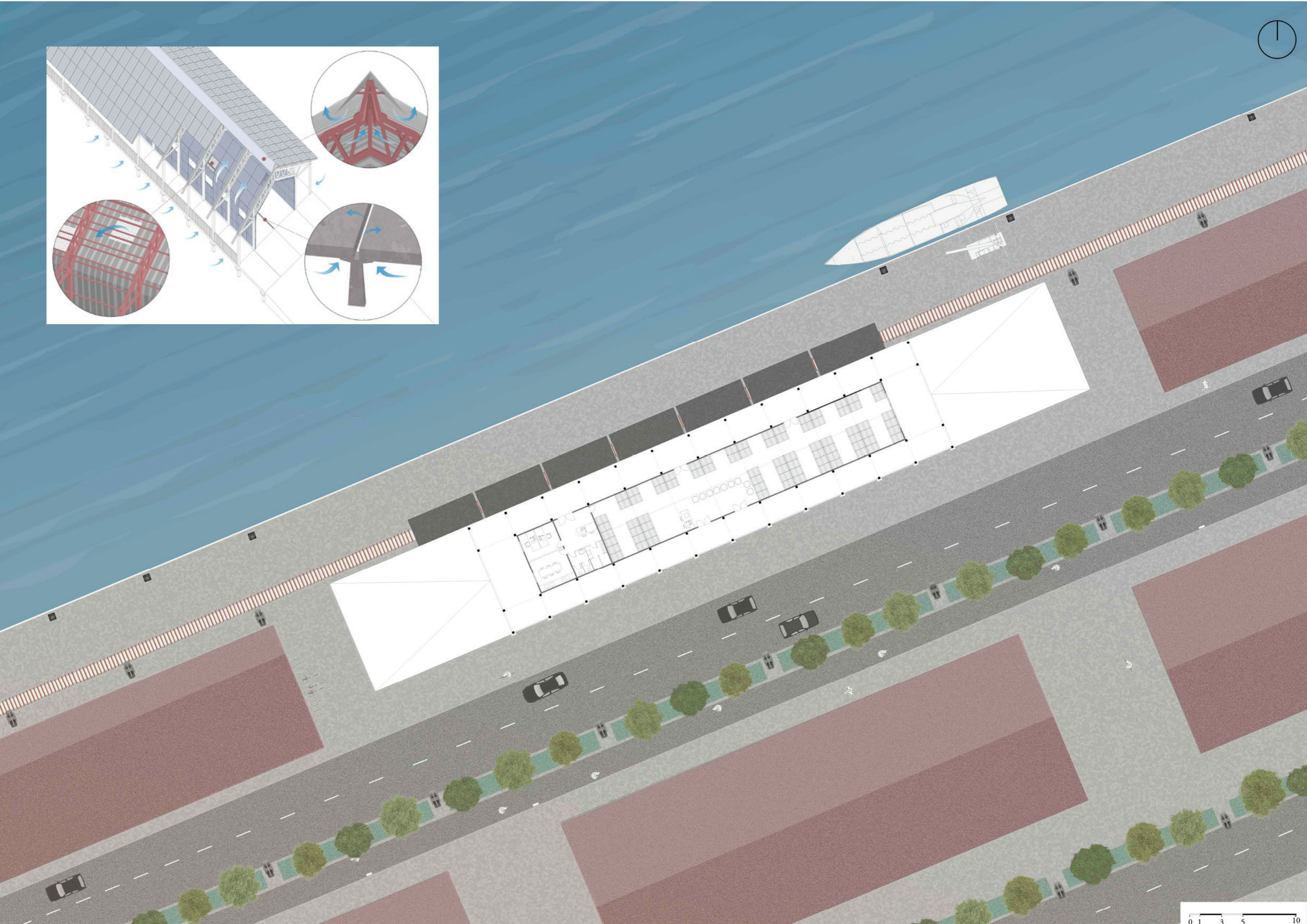
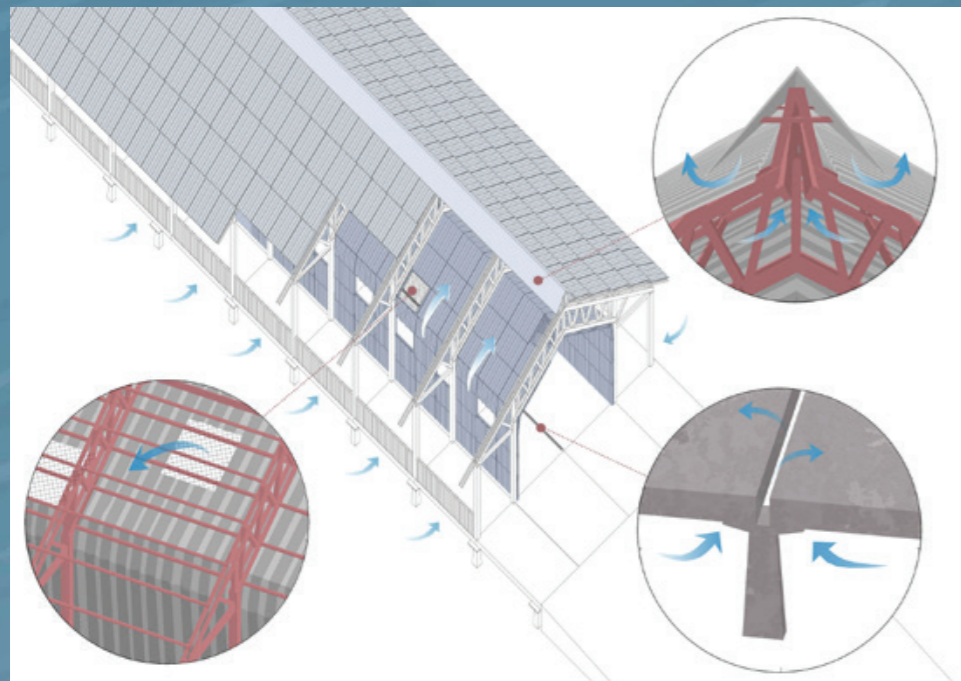




14 Le Havre's Attic

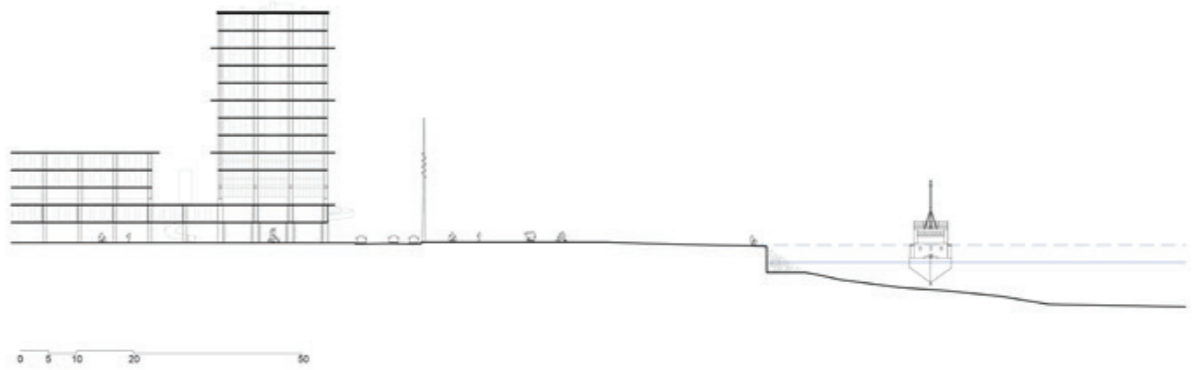
Kelly Chhour, Loic Castelotto, Thibaut Ruix





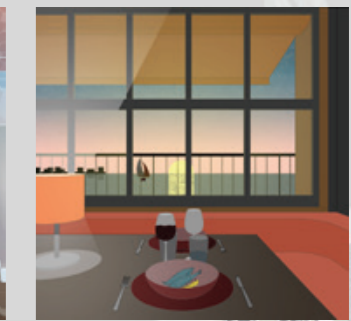
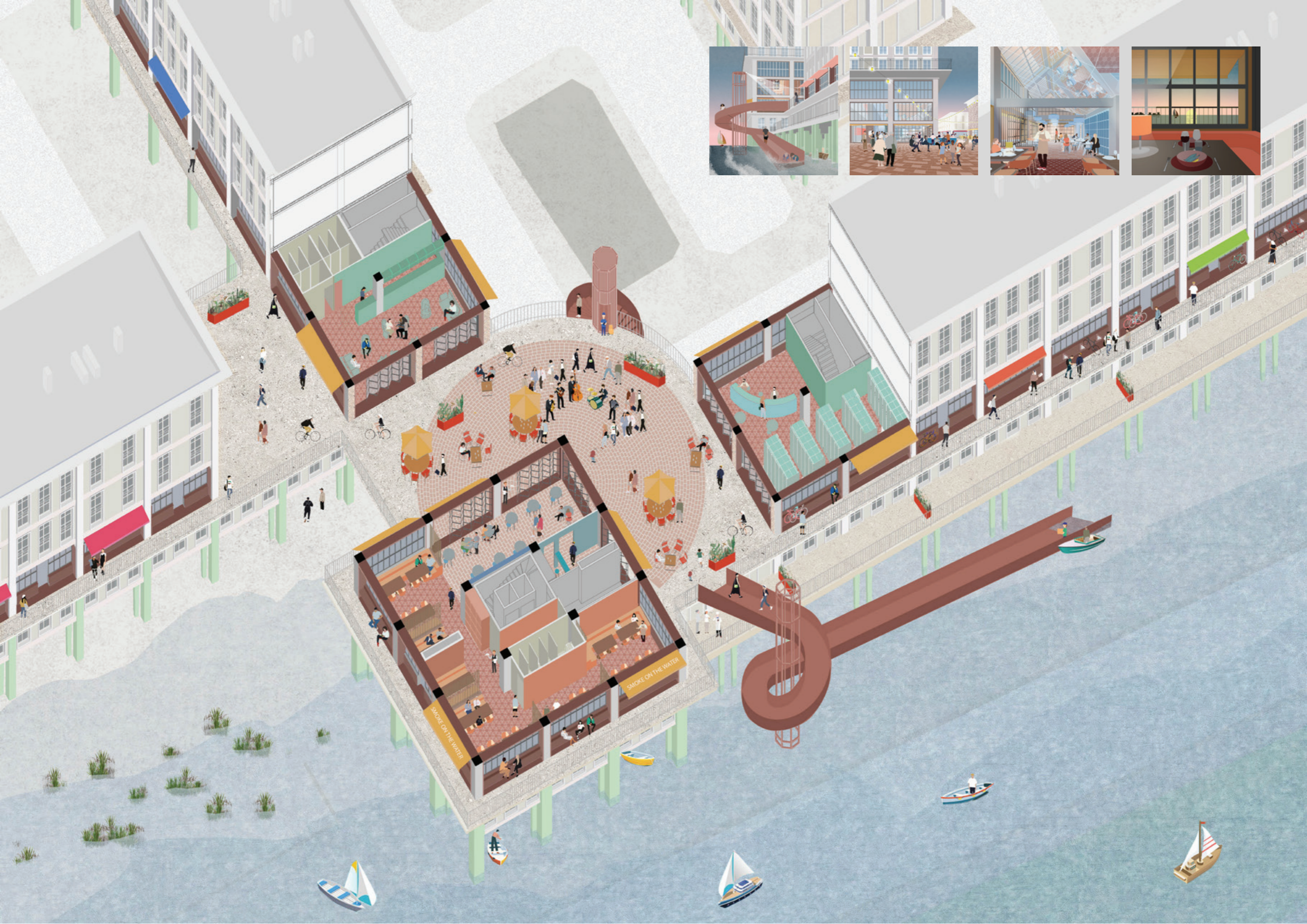


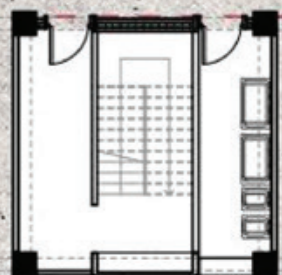
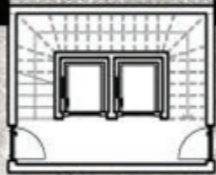
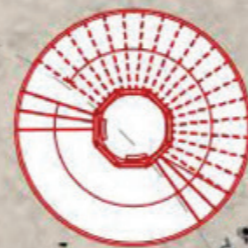
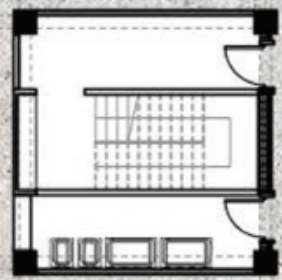
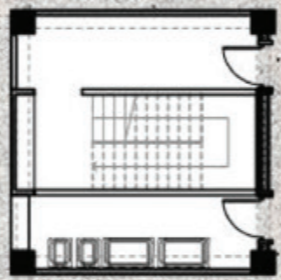
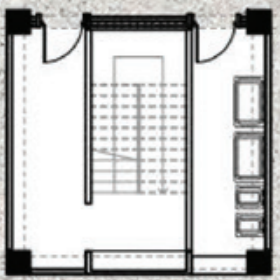
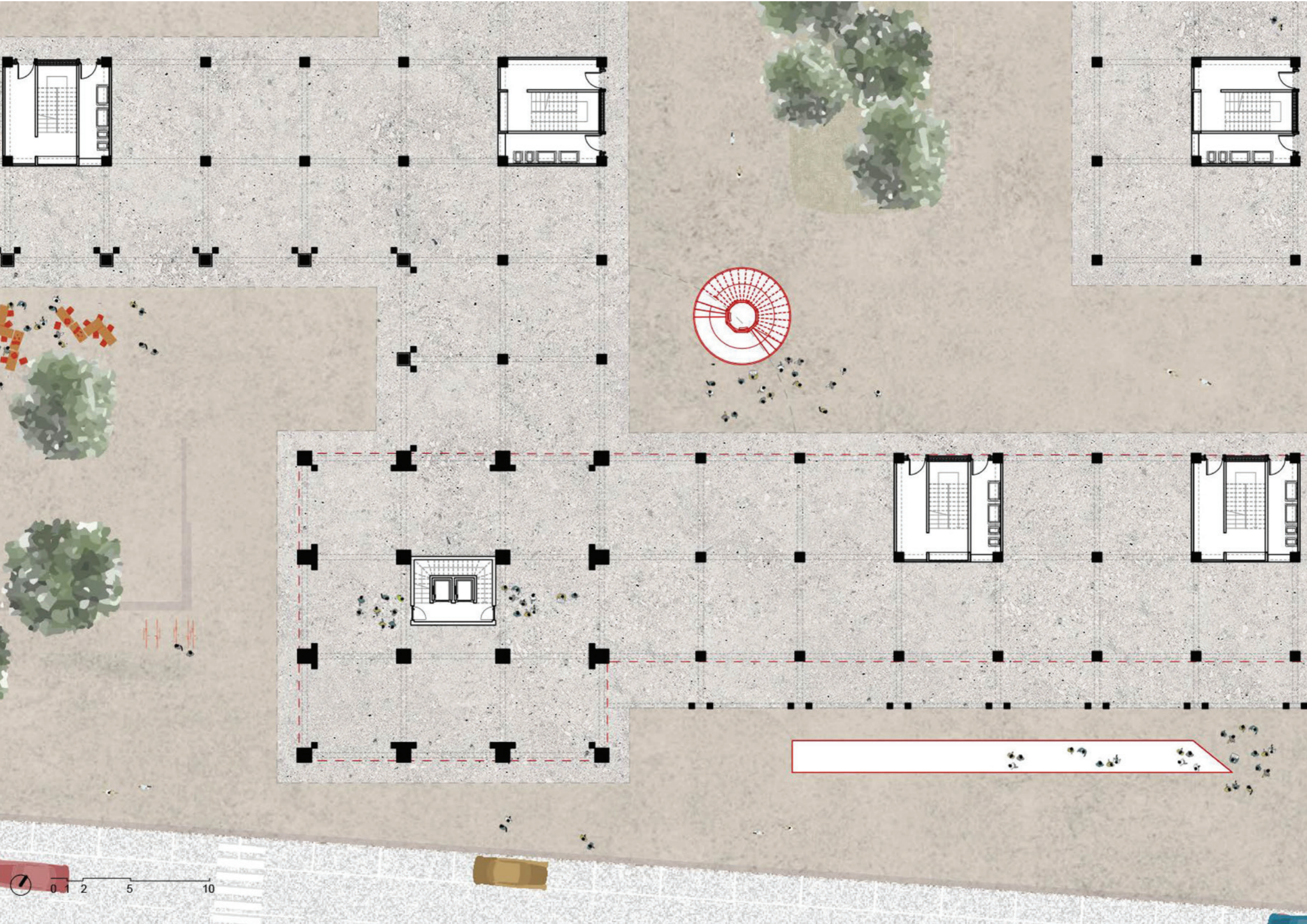
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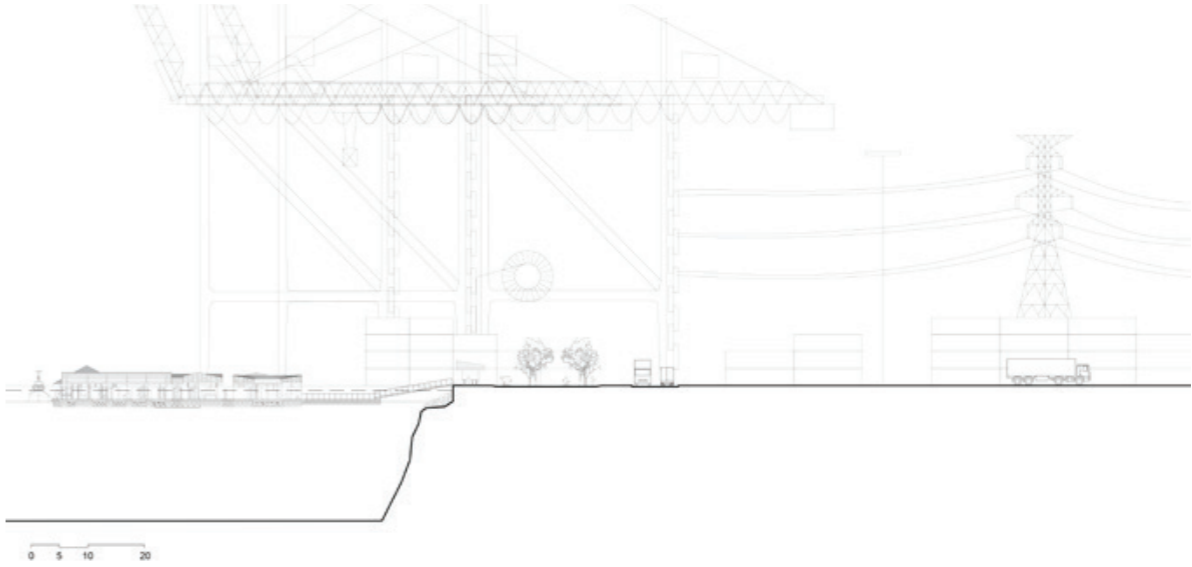
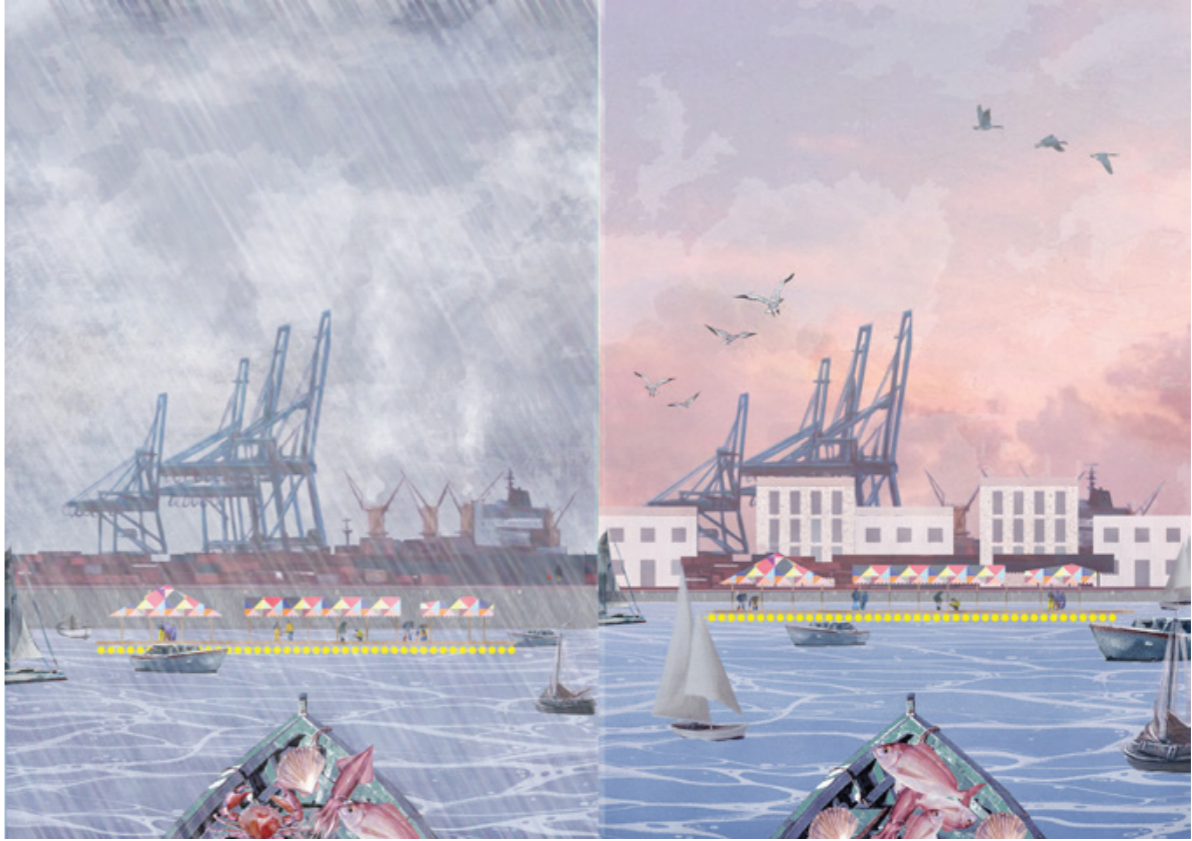
15 Smoke on the water

Antoine Jellimann, Mathilde Maroudeau, Augustin Michel





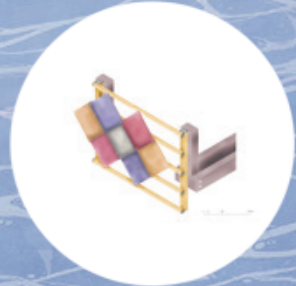
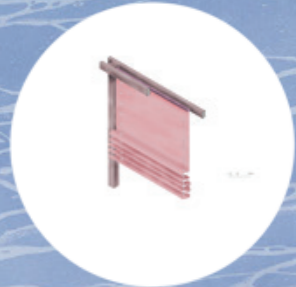
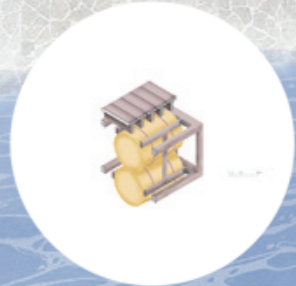
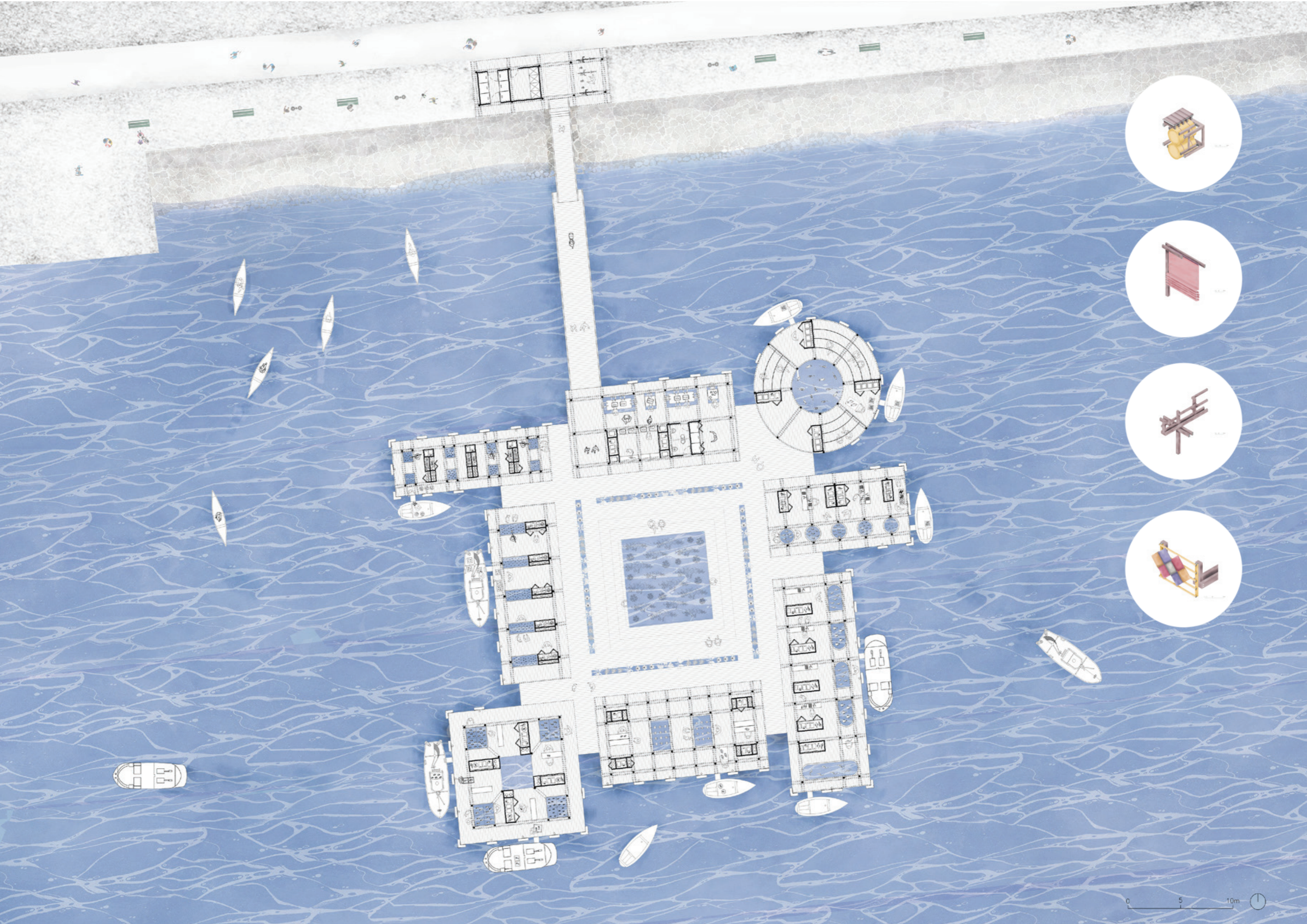




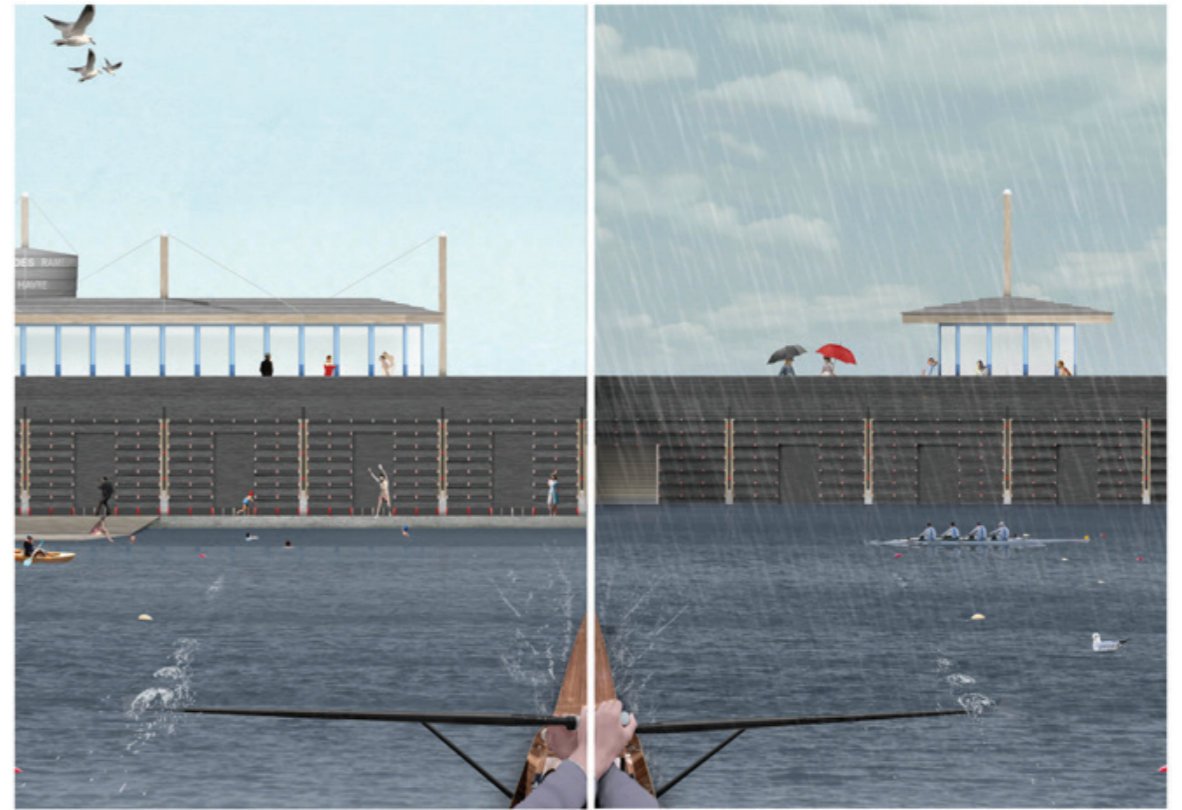
16 Floating Market

Sophie Curty, Claire Vachetti, Inssaf Zinelabidine



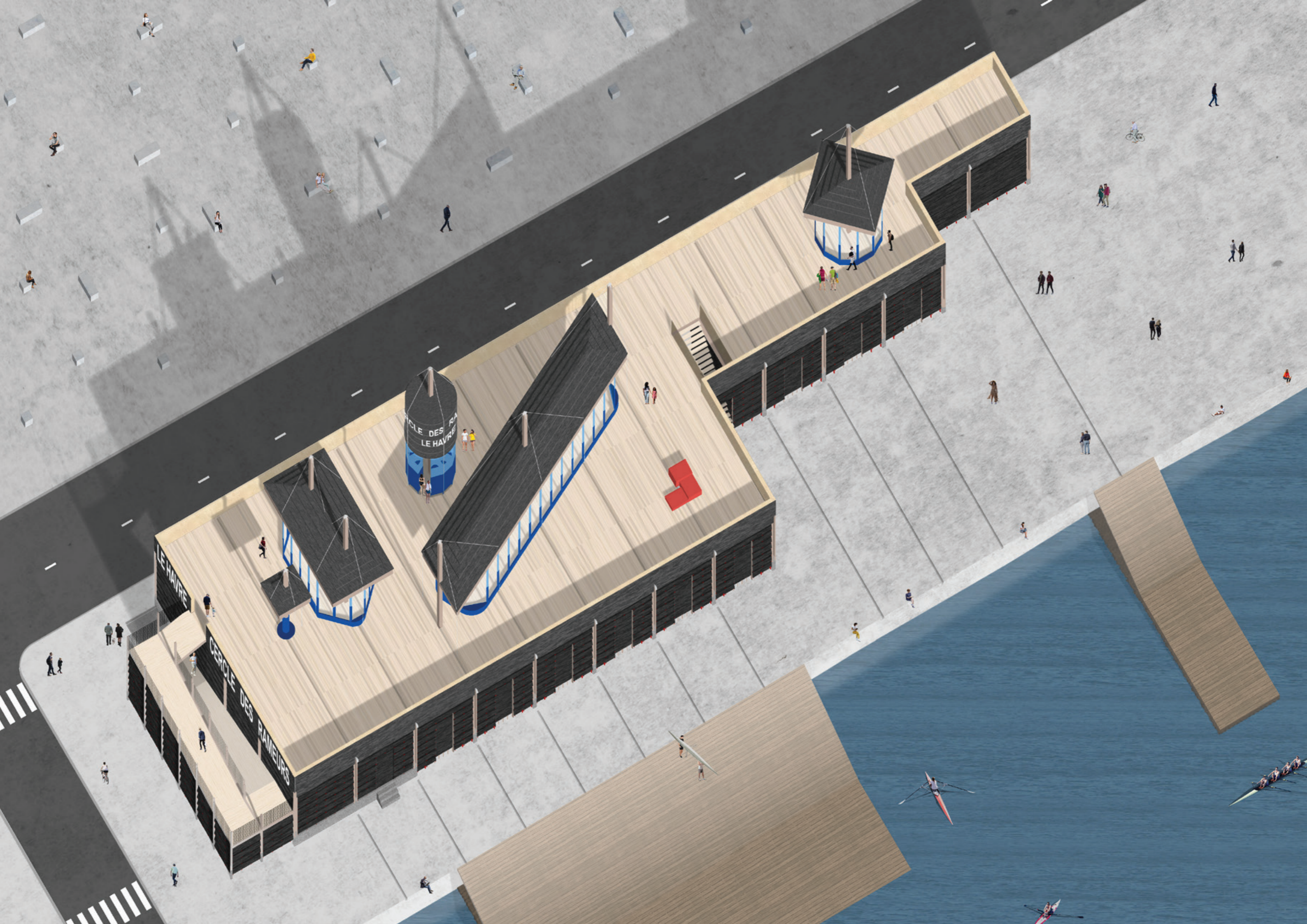






17 Le Havre Rowing Club

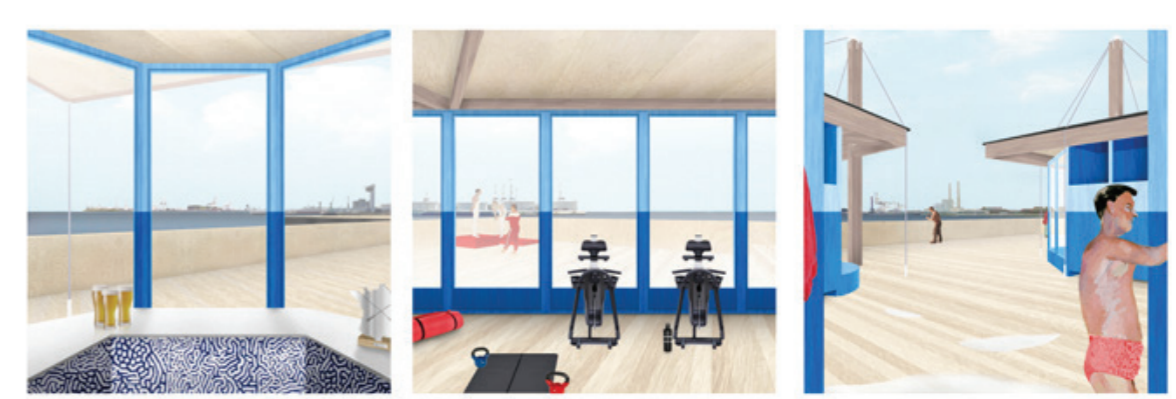
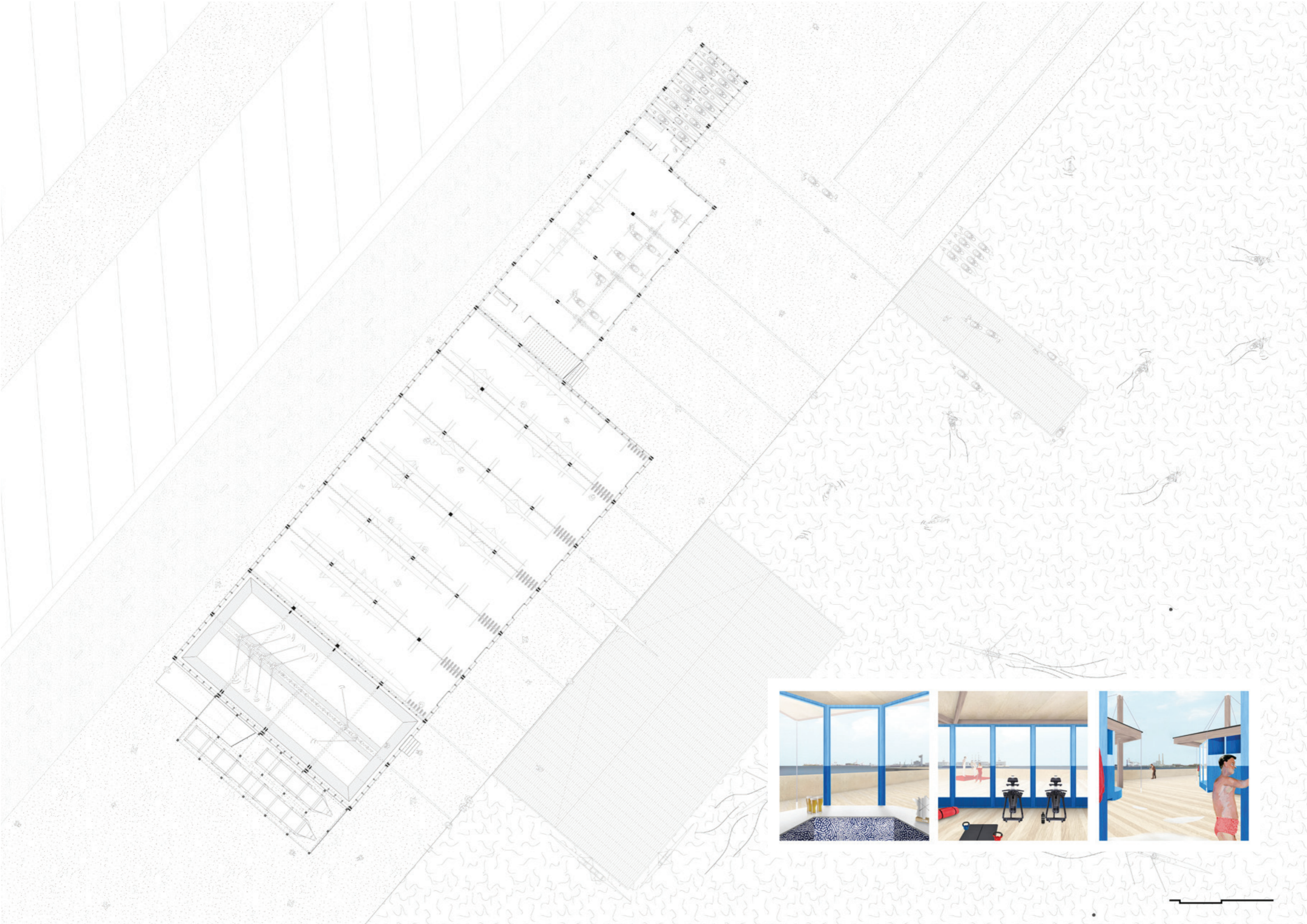
Angela Da Silva, Ange Lemée, Théo Miquel



CERCLE DES RAMMEURS
LE HAUVRE

LE HAUVRE

CERCLE DES RAMMEURS

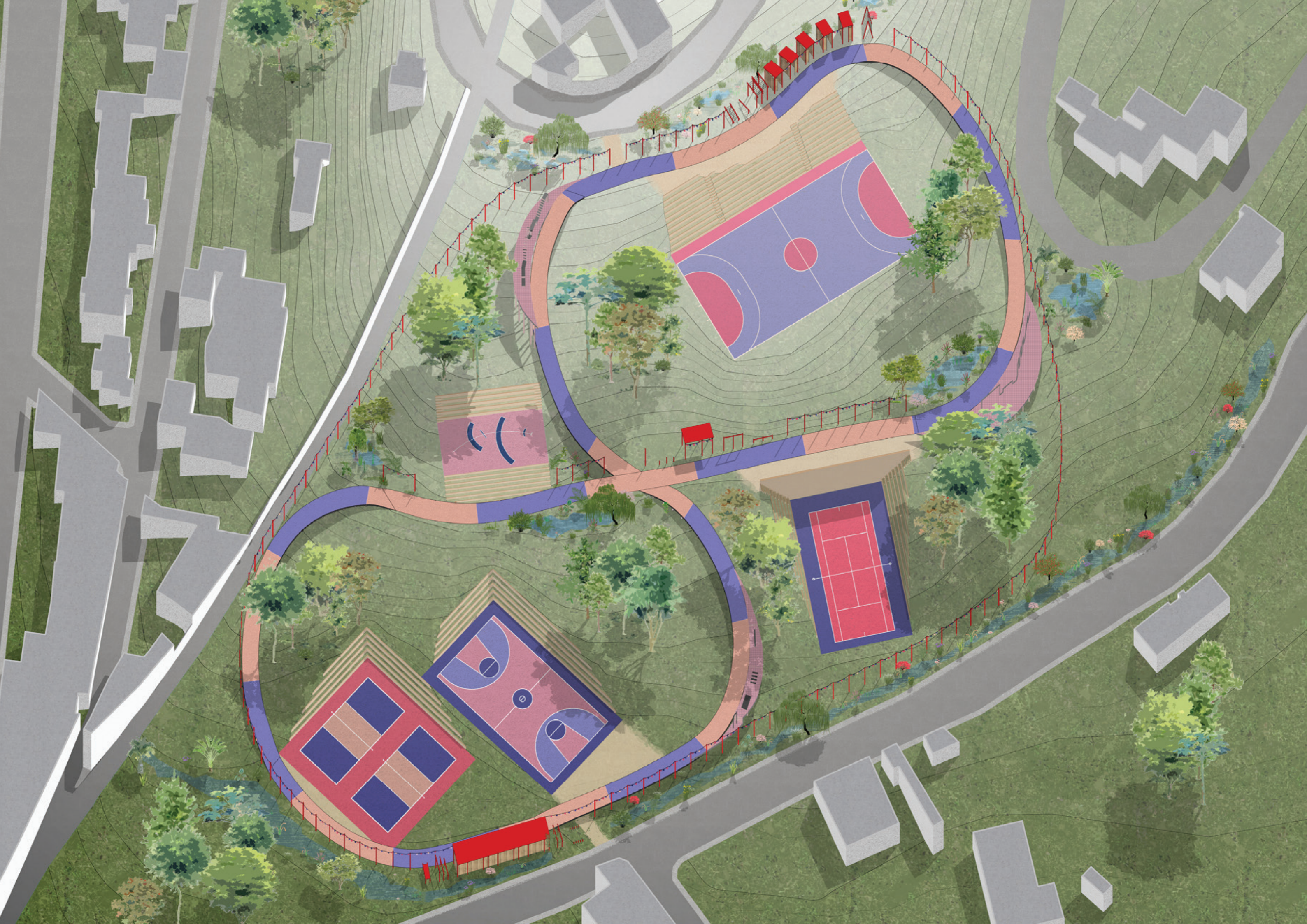






18 The Octopus garden - An outdoor athletic club

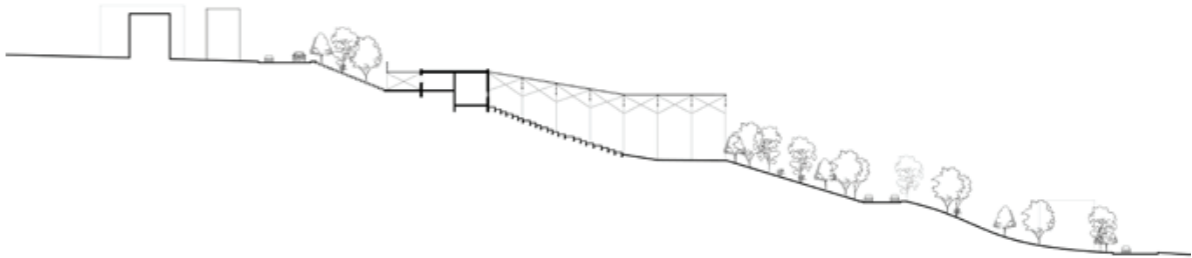
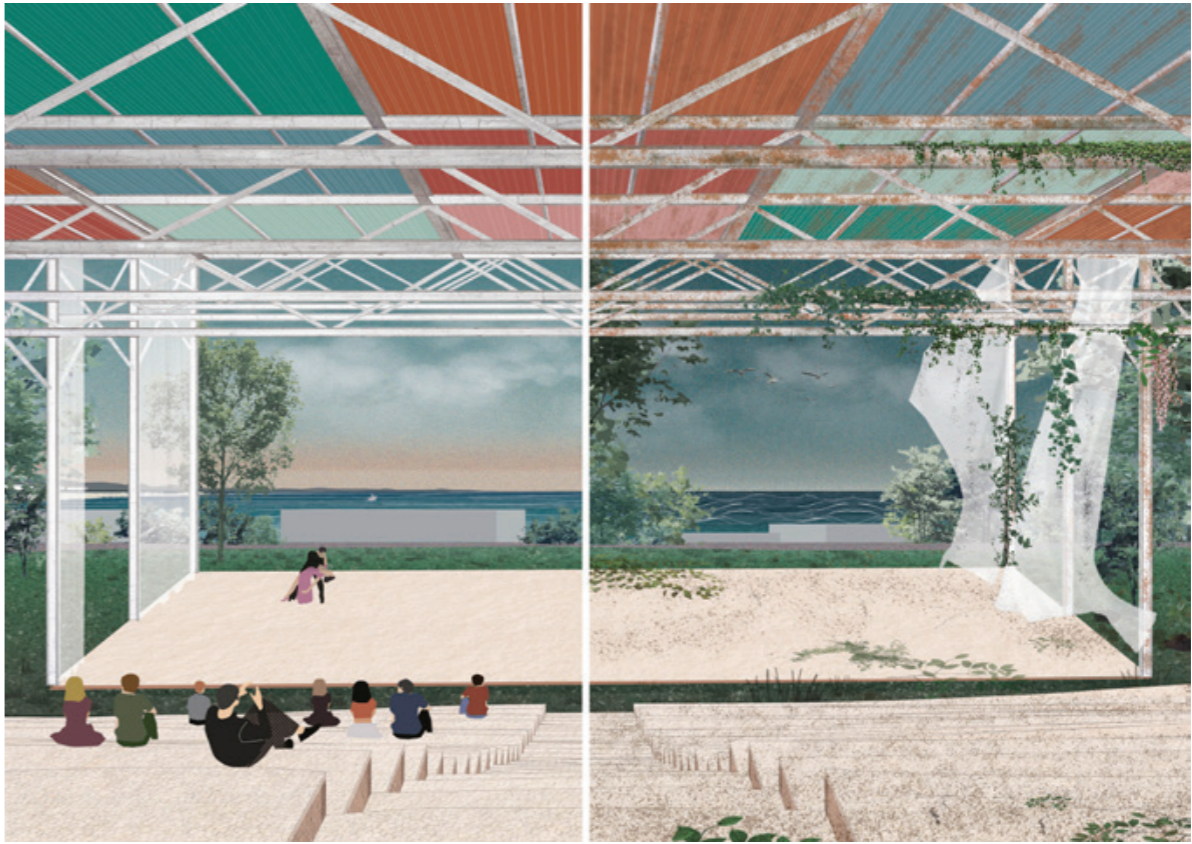
Guillaume Grégoire, Arianna Migliarino, Lucas Nény





0 2 5 10 20

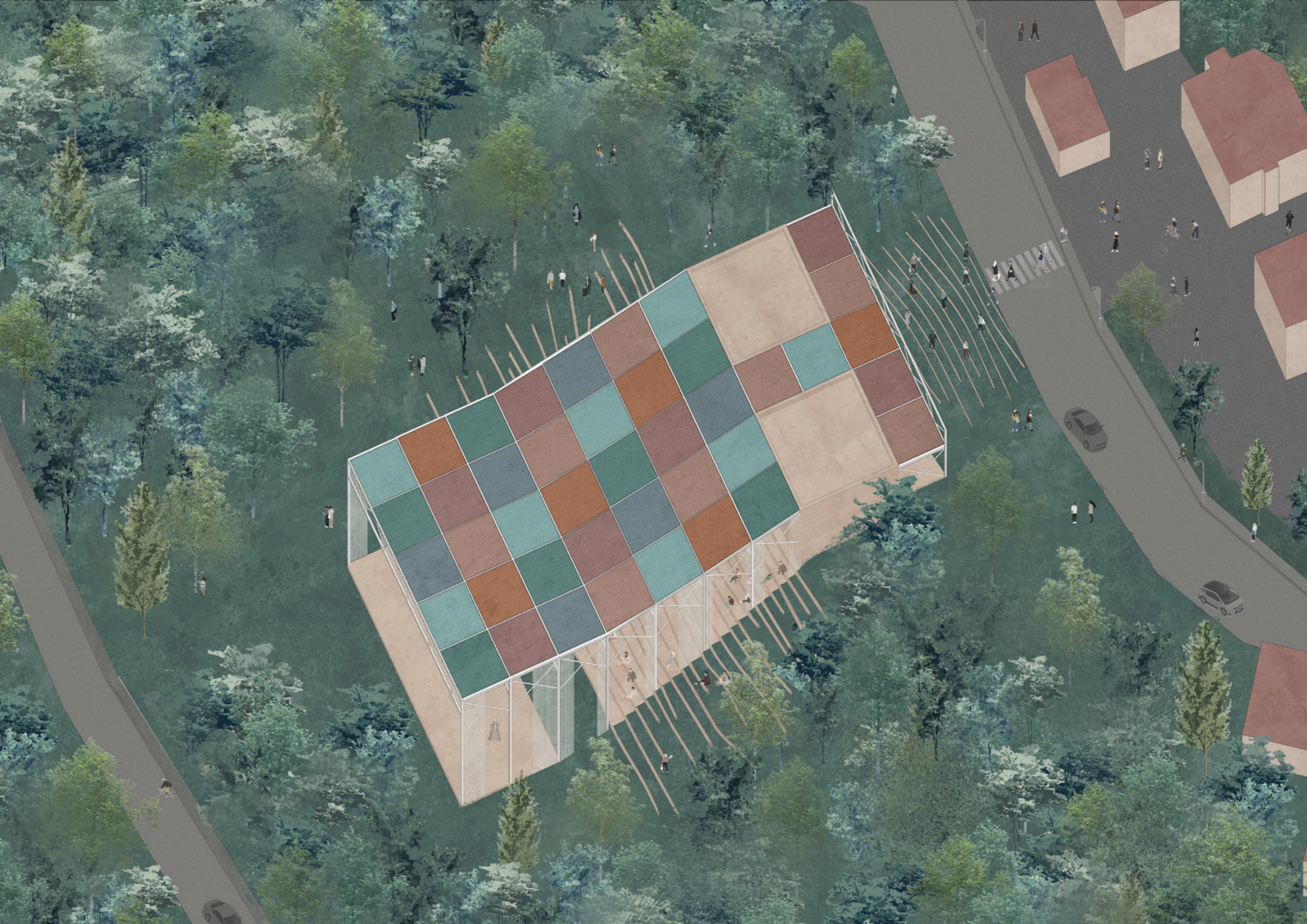


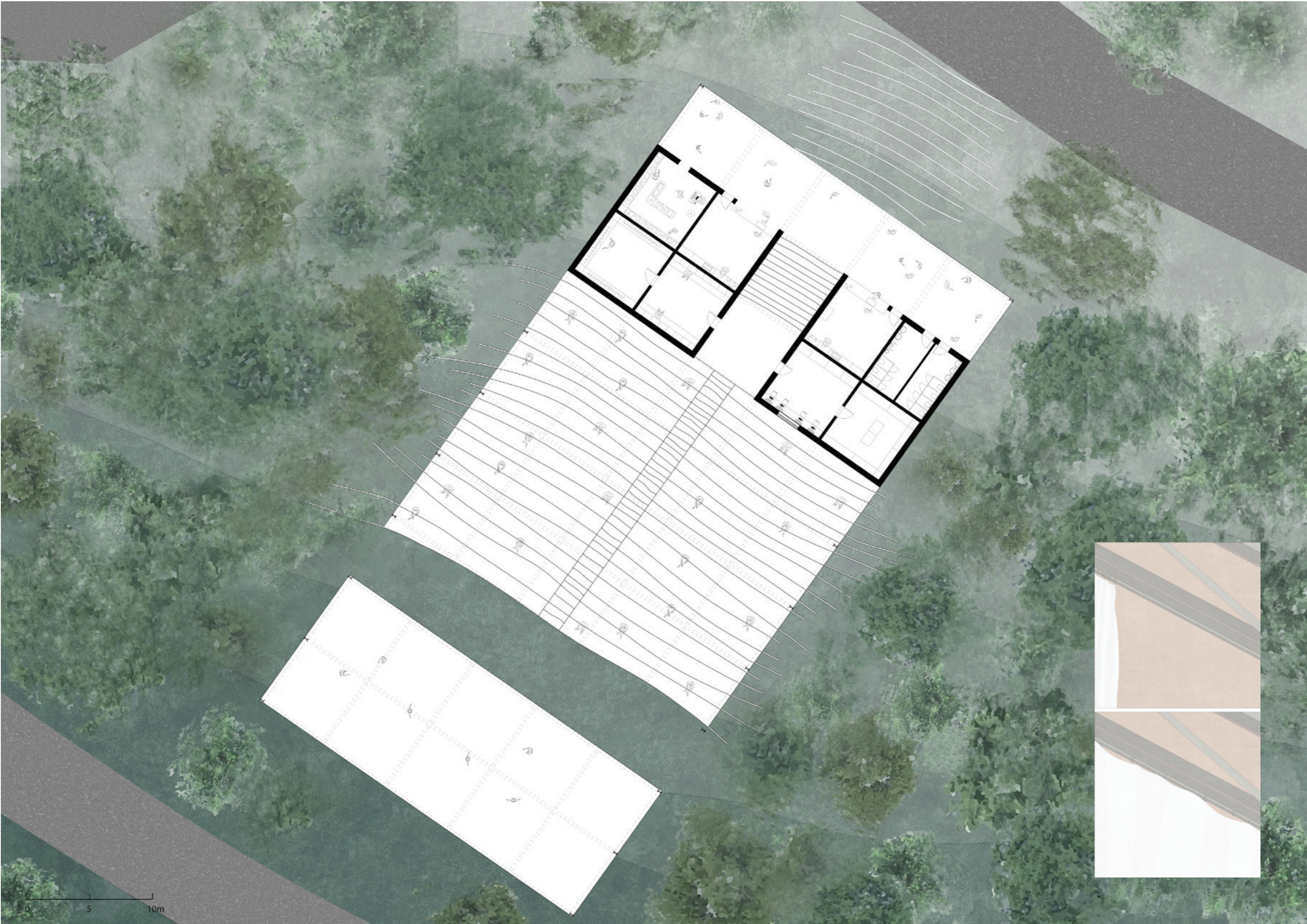


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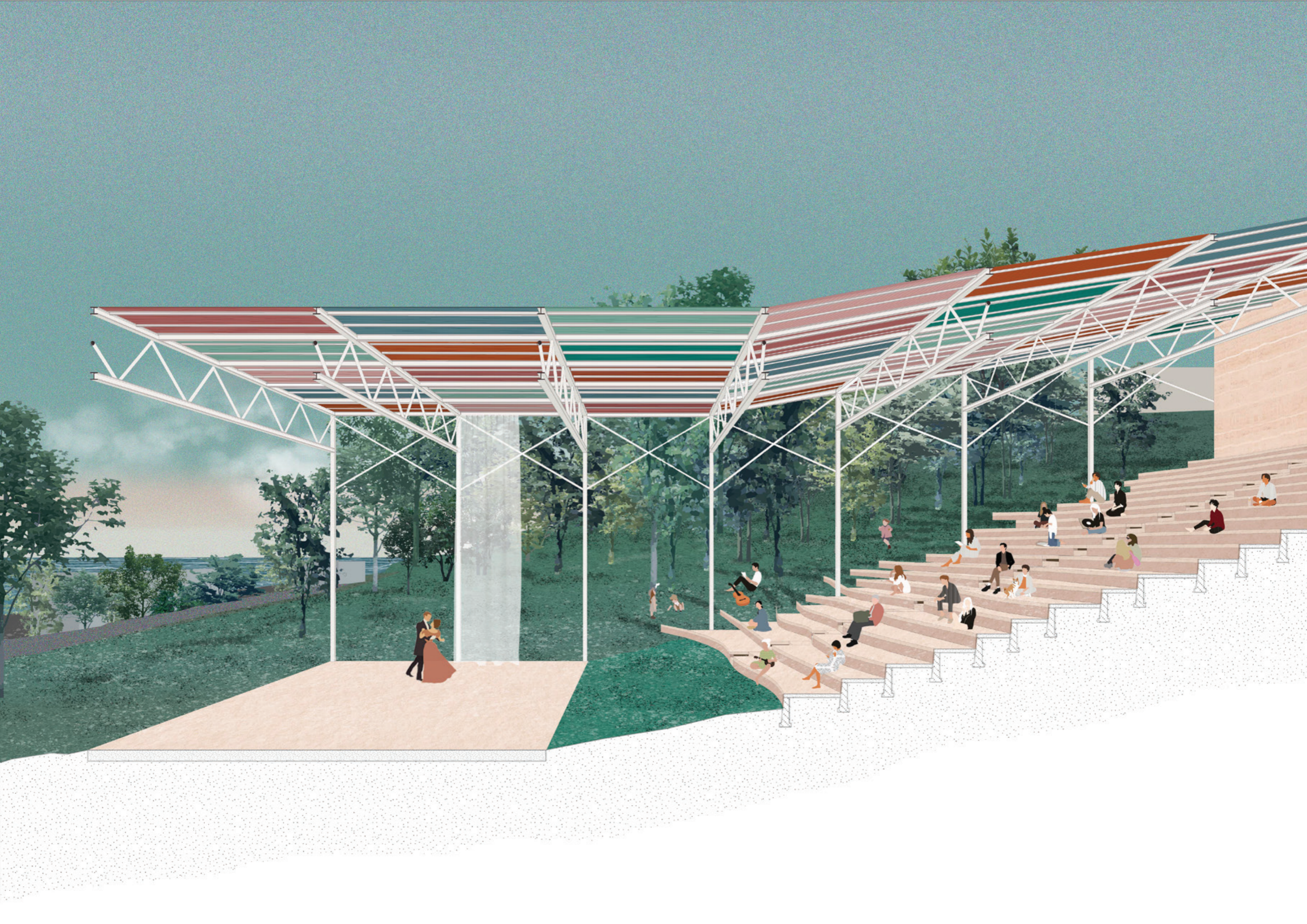
19 Performing Arts Center

Célia Codja, Solène Frémont, Ysamine Majber





0 5 10m



Bedraoui Drissi Mariam, Berthier Myriam, Branchereau Anne, Cheritat Simon, Chessé Louis, Corty Sophie, da Costa Alexis, Damir Sirine, Daurel Flore, Gregoire Guillaume, Hougait Valere, Lemée Ange, Lengaigne Soline, Mahoudeau Mathilde, Majber Yasmine, Migliarino Arianna, Miquel Théo, Morin Eva, Paillon Clement, Payen Victor, Perrillat-Charlaz Camille, Rodriguez Sarah, Roselet Melhing, Ruiz Thibaut, Santos Gabriel, Toulemonde Quentin, Vilcoq Thibaut, Zinelabidine Inssaf, Barkani Khadija, Brehin Florian, Castellotto Loïc, Chhour Kelly, Codjia Célia, Convert Agathe, d'Auria Enzo, da Silva Angela, Derouen Flore, Dragomir Nelu, Eugene Axel, Fachetti Claire, Flor de Oliveira Gabriel, Frémont Solène, Heidet Maxence, Hugues Clémence, Isidore Casey, Jellimann Antoine, Kocik Héléna, Larbi Bouamrane Bouchra, Lelièvre Maxence, Lortie Grégoire, Luo Shaojun, Michel Augustin, Monteiro Mariana, Nény Lucas, Neumann Laura, Przopiorski de Cay Marie, Sustar Margot, Tréport Cynthia, Vaudoux Lucas