

Future Relics

0.

*“About Doel’s ‘de-polderisation’ and
destruction in the Post-Anthropocene era”*

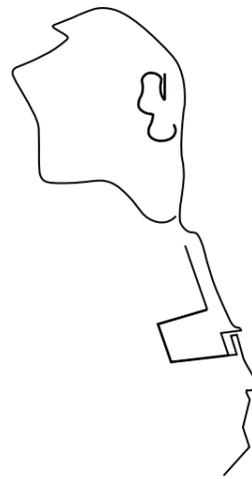
Master Thesis: Presentation

Luca Parlangeli

North Sea: Landscapes of Coexistence
Transitional Territories Studio 2019-2020

Future Relics

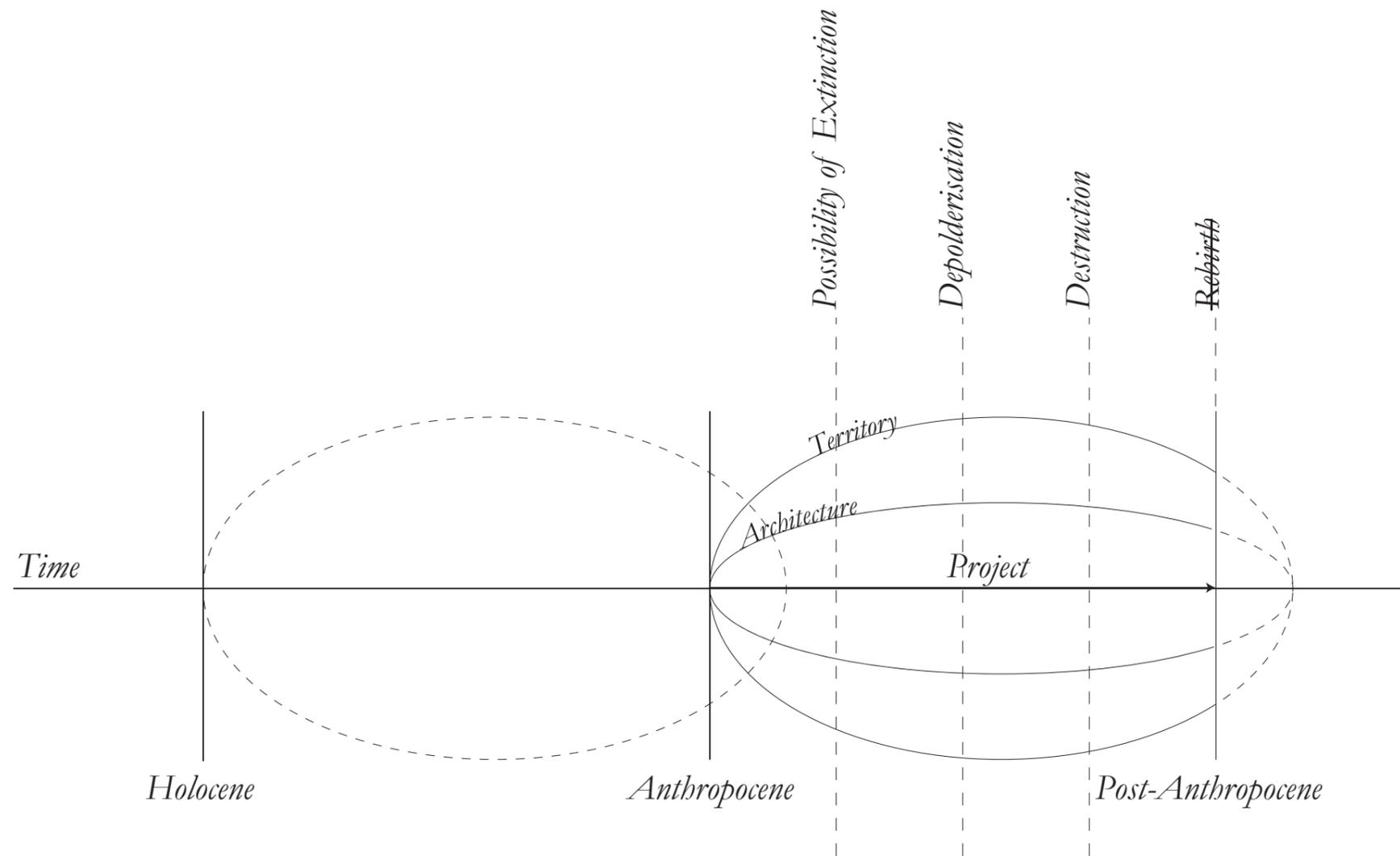
*About Doel's "de-polderisation" and eventual
destruction in the Post-Anthropocene era*



The Anthropocene



Project Timeline



The North Sea

The North Sea

Human Factors

- Eolic Energy*
- Water Quality*
- Trash*
- Shipping Routes*
- Oil & Gas Extraction*
- Over-fishing*
- Sand & Minerals Extraction*
- Cables & Pipelines*
- Tourism*
- Military Use*
- Cultural Heritage*
- Data*
- Migration*

Natural Factors

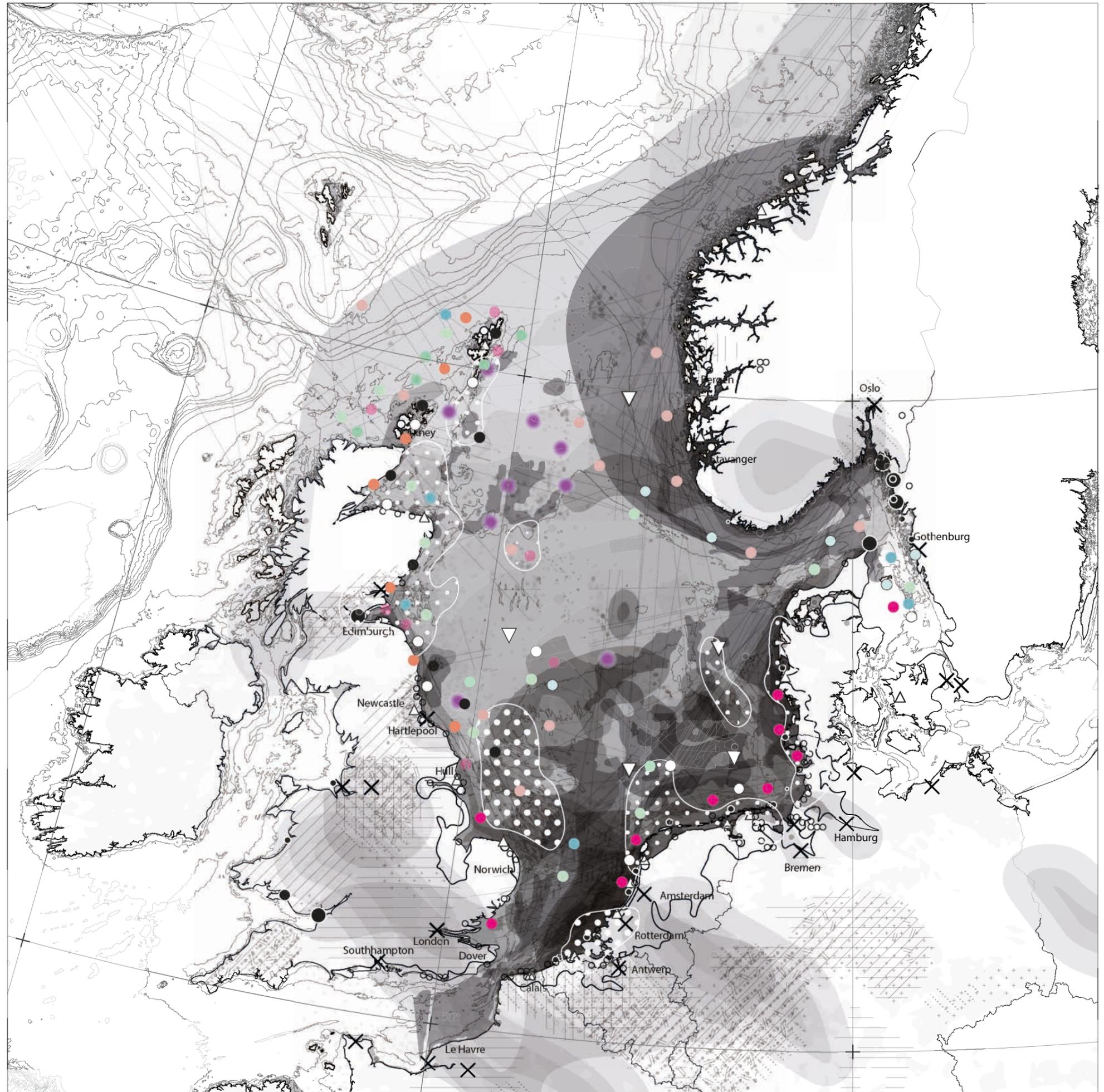
- Nature and Biodiversity*
- Erosion*
- Flooding*
- Terraforming*
- Storm Surge*
- Polluted Grounds*
- Salinity*
- Carbon and Methane Emissions*



Crisis

Gradient of Anthropogenic Phenomena

Concentration of Habitats and Biodiversity



Estuaries



Maas Estuary
Rotterdam



Scheldt Estuary
Antwerp



Elbe Estuary
Hamburg

The Scheldt Estuary

Contradictory Landscape of the Scheldt



The Scheldt Estuary

Drowned Land of Saefstinghe

Doelpolder

Doel Town

Doel Nuclear Power Plant

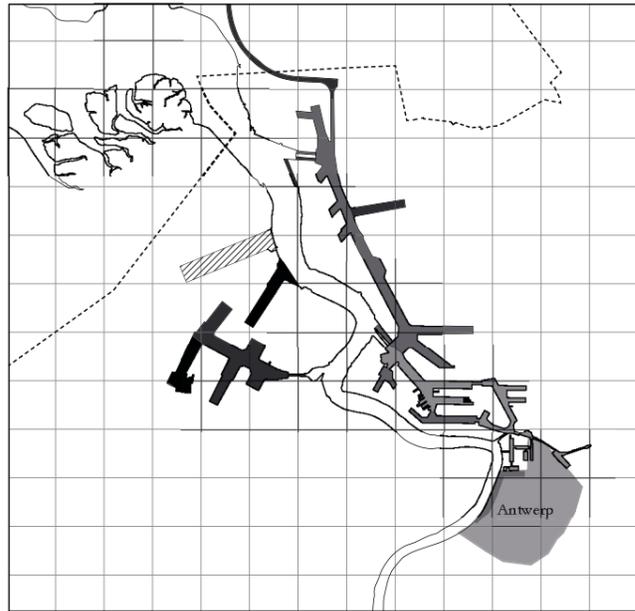
Port of Antwerp

Antwerp

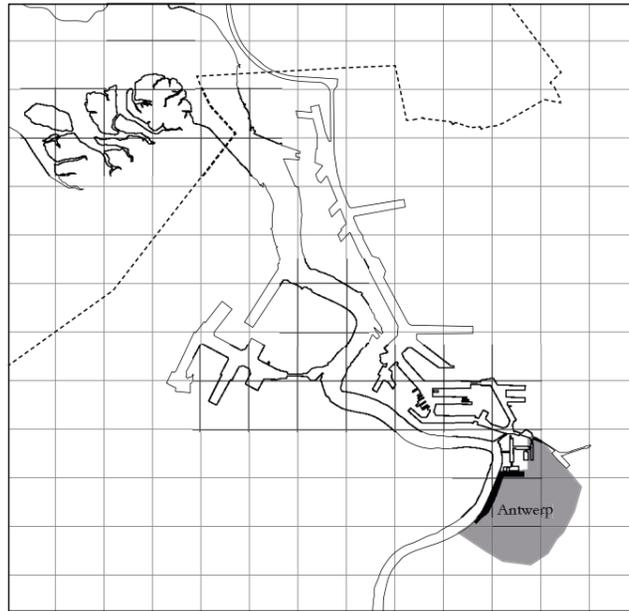


Territorial Conditions

Infrastructural Expansion



Port of Antwerp



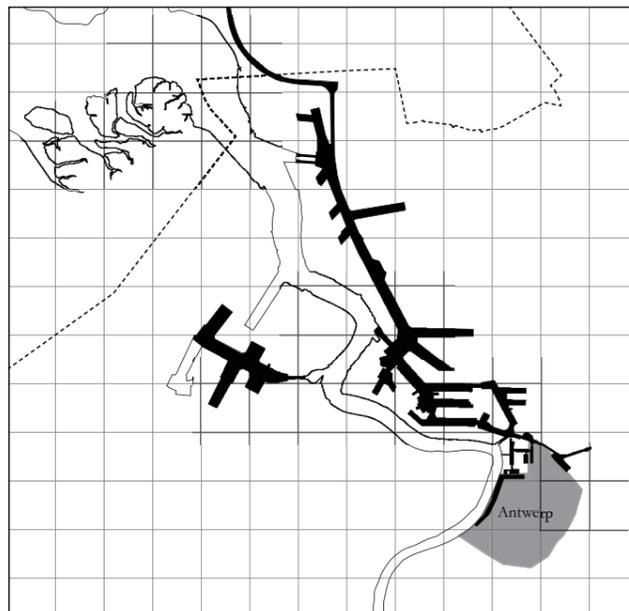
*Before 19th Century
Old River Port*



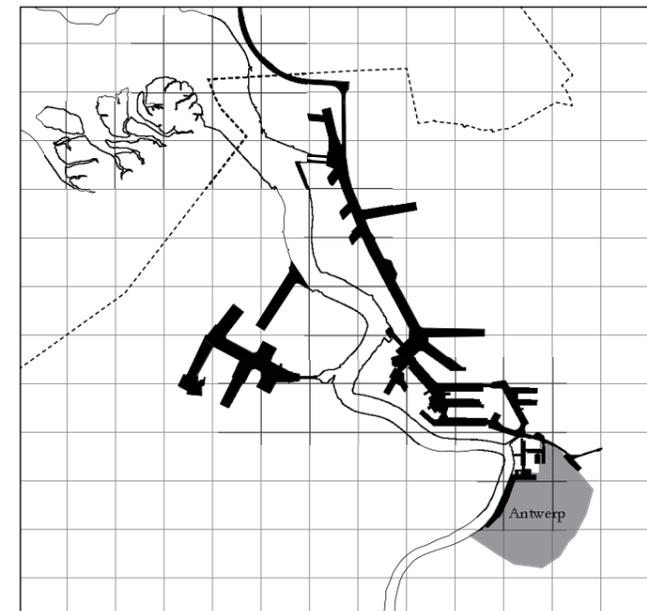
*1811 -1930
Renovation of Old Port (Van Cauwelaert Lock)*



*1951 -1965
Marshall Plan + Expansion (Dutch Border)*



*1970 -2000
Expansion (Waaslandkanaal + Delvaiedok)*



*2000 -2010
Expansion (Deurganckdok + Verrebroekdok)*

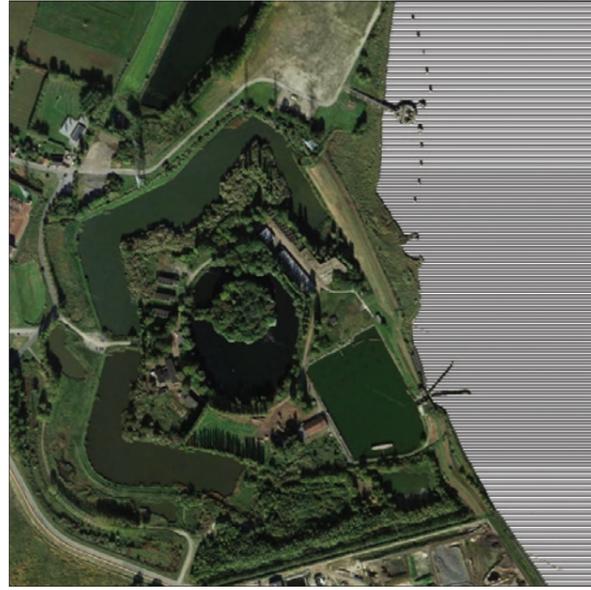
Suburban



Urban



Suburban



Urban



Scheldt

Industrial



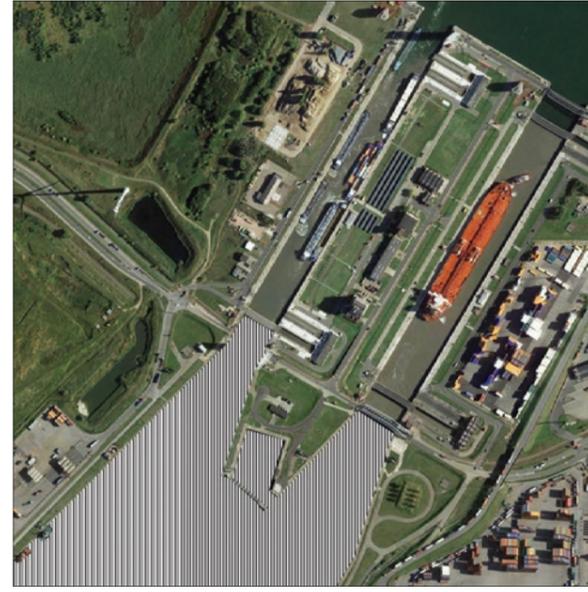
Industrial



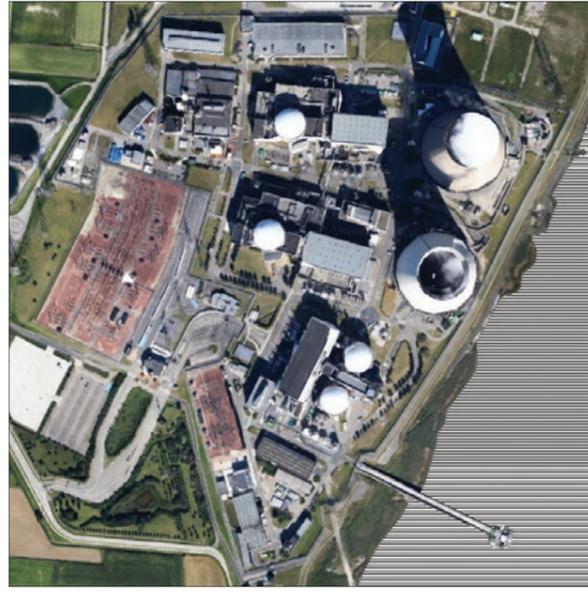
Rural



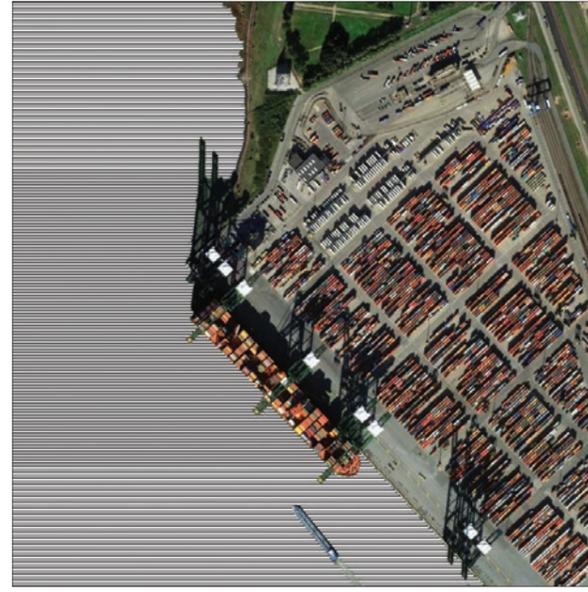
Infrastructural



Industrial



Industrial

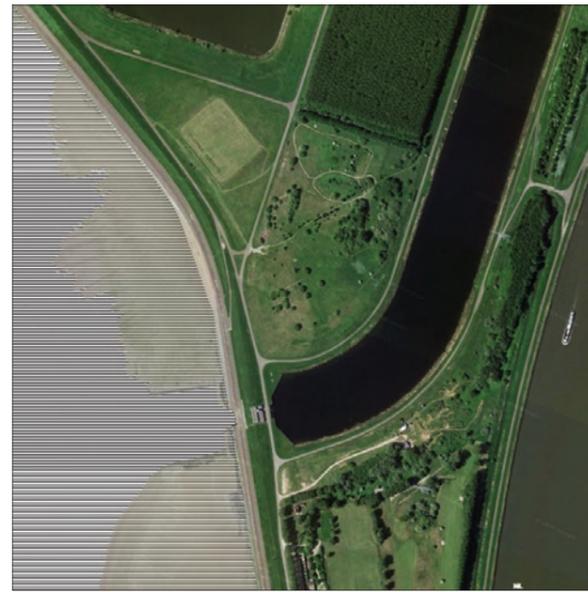


Scheldt

Natural

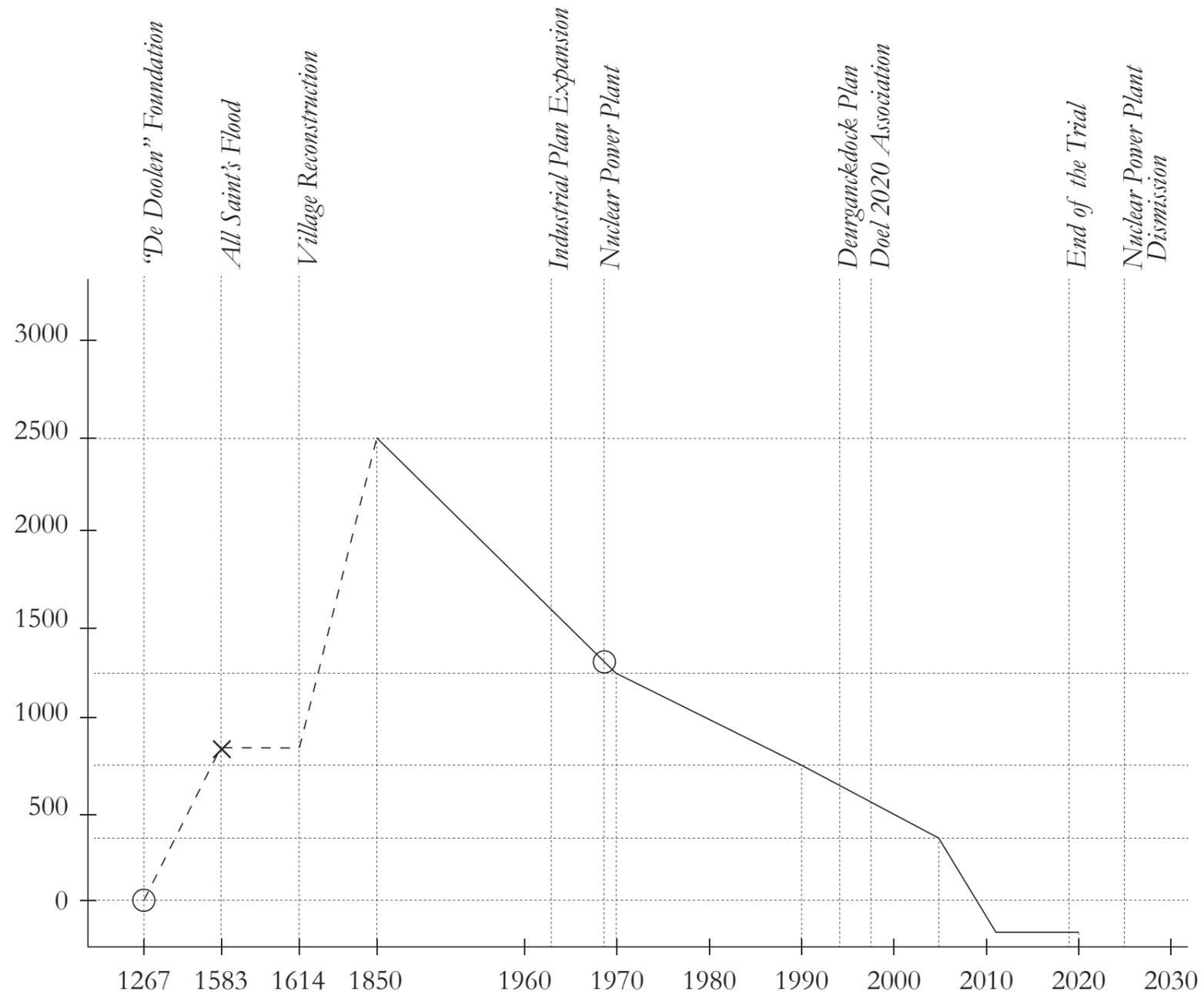


Agricultural



Doel

Doel Extinction



Atlas Obscura

TRIPS EXPERIENCES **PLACES** FOODS STORIES VIDEOS

BEVEREN, BELGIUM

The Doomed City of Doel

Ghost town in Belgium will lose its street art when it ceases to exist.

202 474

51.3116
4.2629

In the very near future, Doel, Belgium will only exist in pictures and memories. The tiny village is scheduled to be completely destroyed to make room for an expanding harbor, and even protest and the incredible street art in the abandoned town cannot stop the inevitable destruction.

Beveren, 9130 Belgium

WEBSITE

Top Places in Belgium

For 700 years, Doel stood near Antwerp along the Scheldt River in Belgium, and includes a home that

FLANDERTODAY Flanders State of the Art

Thursday 9 January 2020

Current affairs Business Politics Innovation Education Art Living

The disappearing village

by A.S.

Recent articles: "Better late than never", Fifth column: Who wants the '17, Outside

SUMMARY

Doel is no ordinary Flemish village: its houses are boarded up, graffiti covers the walls lining its main road, and there's hardly a soul on the street. The schools have closed down, the shops have shut, and most residents have left. But there are still a few villagers determined to stay put.

AS THE PORT OF ANTWERP EXPANDS NORTHWARD, THE FLEMISH REGION GRAPPLES WITH HERITAGE VERSUS COMMERCE

FLANDERS TODAY NEWSLETTER

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- More company cars bought last year than ever before
- Flemish researchers uncover hidden evolution of seaweed
- Most of Brussels to convert to 30kph speed limit
- Vilvoorde to discuss safety measures along canal following death of student
- Unemployment rate at all-time low in Flanders

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No further demolition of Doel in new port expansion plan

by Lisa Bradshaw, editor-in-chief, Flanders Today

Recent articles: More company cars bought last year than ever before, VUB rector Caroline Pauwels to run for re-election, Film news: Schoenaerts and Phoenix to play brothers, Belgian critics reward Never Look Away

SUMMARY

Flemish mobility minister Ben Weyts has announced a new plan for the expansion of container space at the port of Antwerp that avoids further damage to the once-doomed village of Doel

WHAT'S NEXT FOR DOEL?

FLANDERS TODAY NEWSLETTER

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In the headlines

Thursday, 29 January 2020

Partial lunar eclipse will be visible in Belgium on Friday

Unique experiment sees Belgian researchers going to BDSM club to break taboo

Condemned and abandoned: The Belgian ghost town which refuses to disappear

Thursday, 25 July 2019

Doel



The Nuclear Power Plant

REUTERS Business Markets World UK TV More

COMMODITIES NEWS JUNE 28, 2019 / 4:20 PM / UPDATED A YEAR AGO

Belgium unprepared for phasing out nuclear power by 2025: grid operator

By Daphne Psaedakis, Bate Felix 3 MIN READ

BRUSSELS (Reuters) - Belgian grid operator Elia has warned the country could face serious power shortages after it phases out nuclear power in 2025 if the government does not act to speed up investment in alternative energy supplies.

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Germany urges Belgium to shut nuclear reactors temporarily

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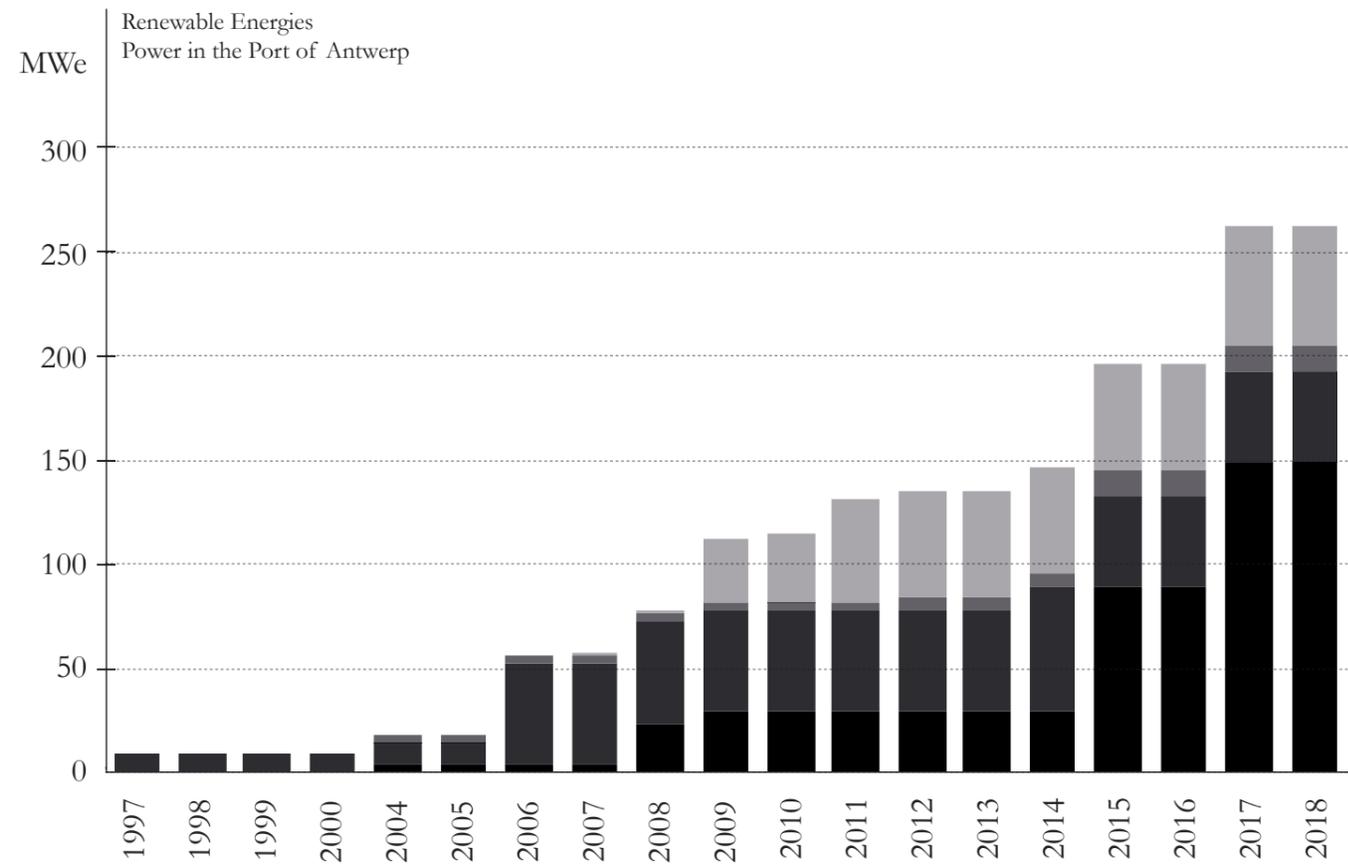
NEWS

Belgium broke law but can keep nuclear plants open, EU court rules

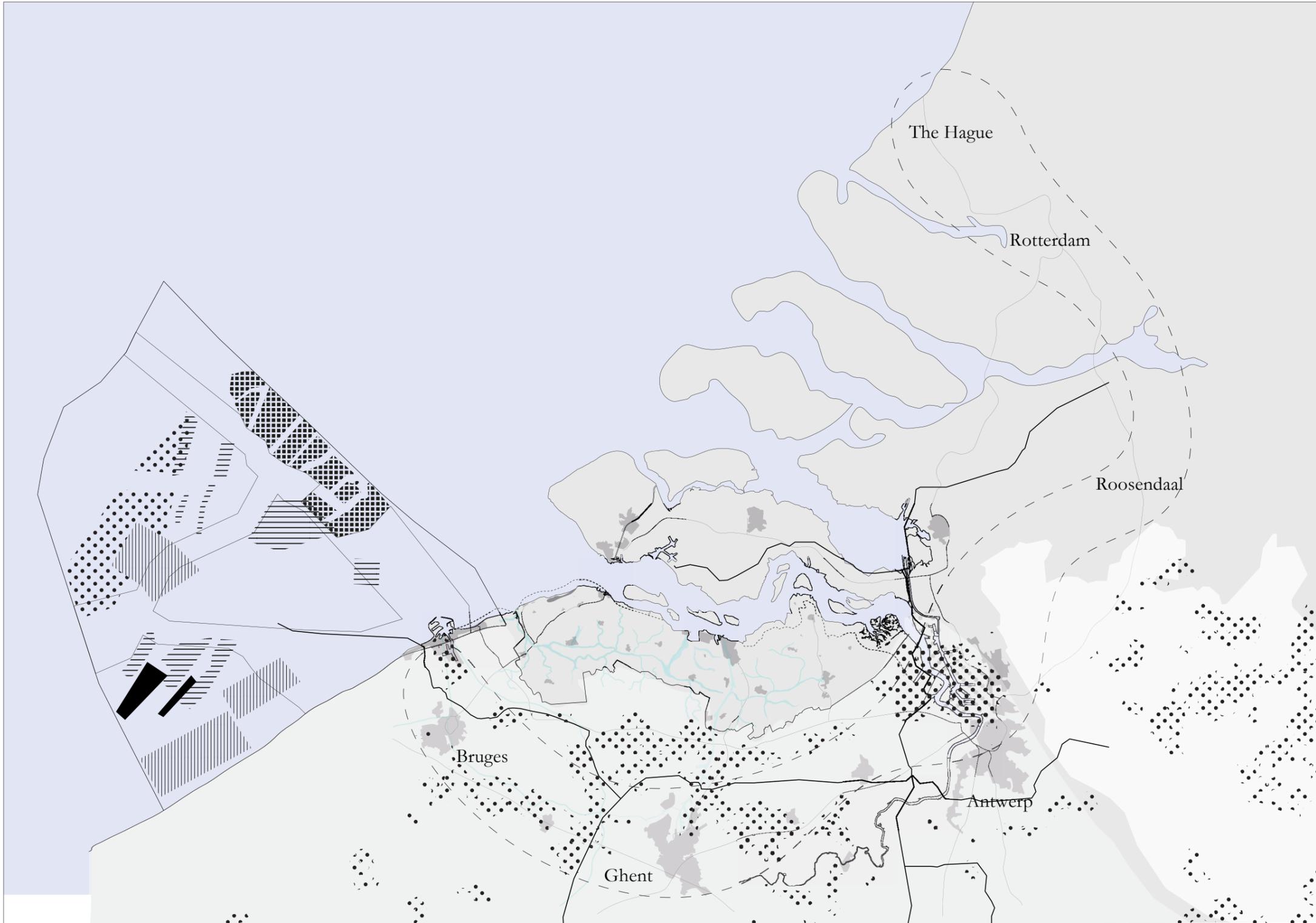
Belgium's self-imposed deadline for giving up nuclear power is not far off. Environmentalists look forward to the end of the atomic era, but not everyone thinks the country is ready to change course.

f t r e +

Renewable Energies Plan in the Port of Antwerp

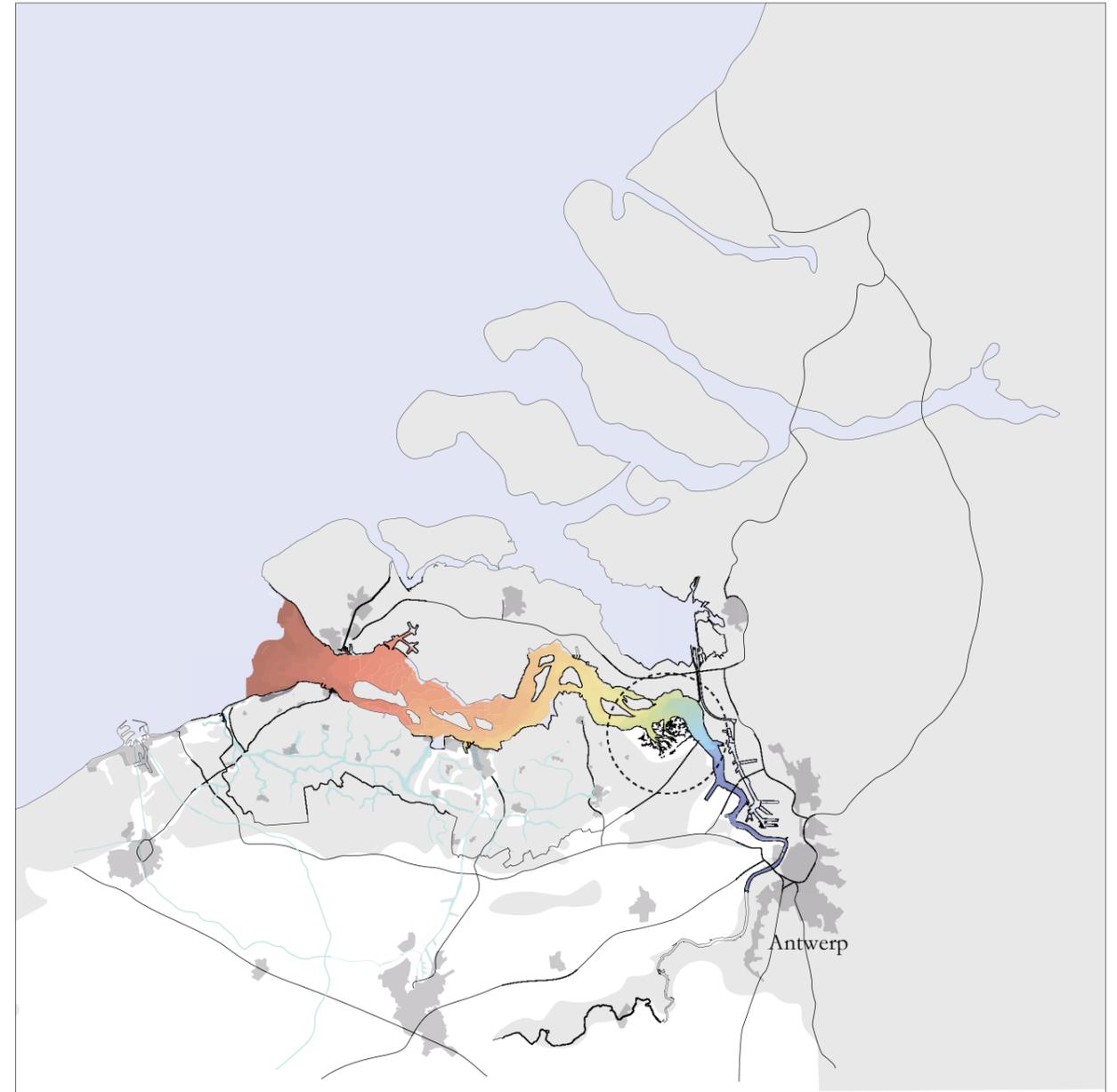
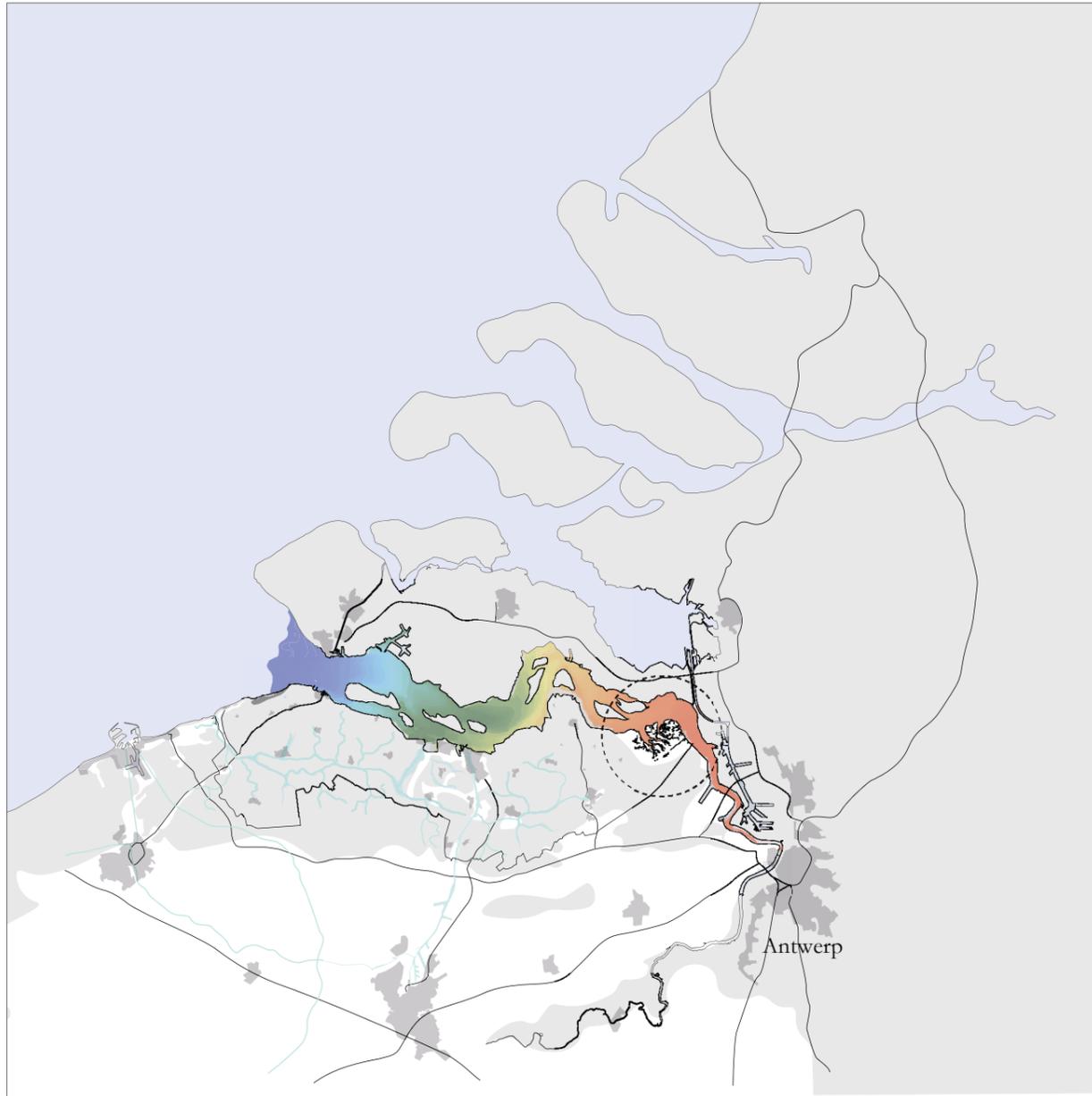


Belgium Renewable Energies Plan

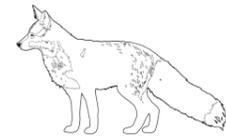
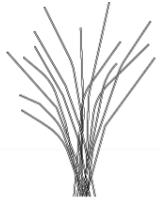


The Drowned Land of Saeftinghe

Pollution and Salinity

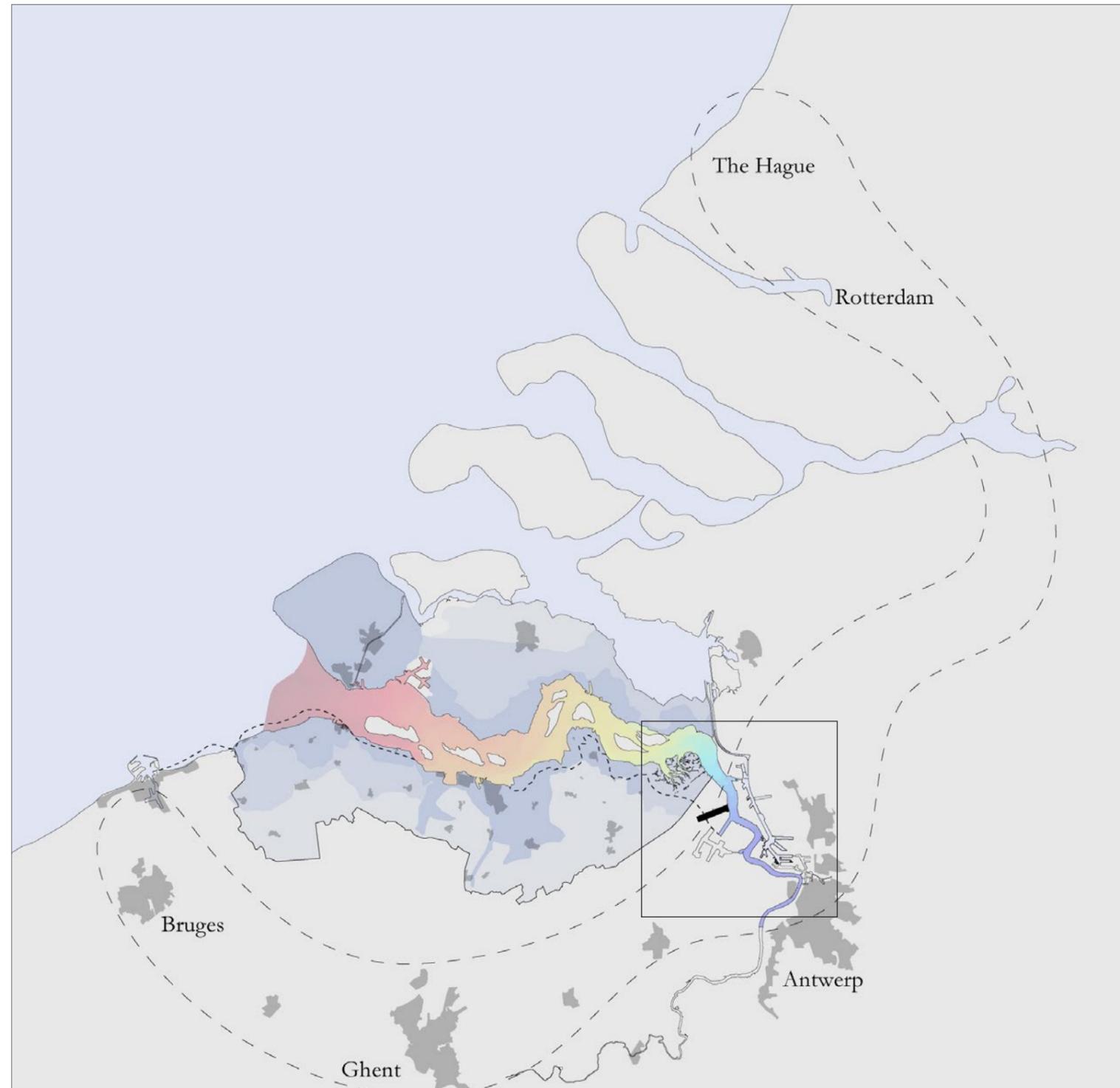


Saeftinghe Herbarium & Bestiarium

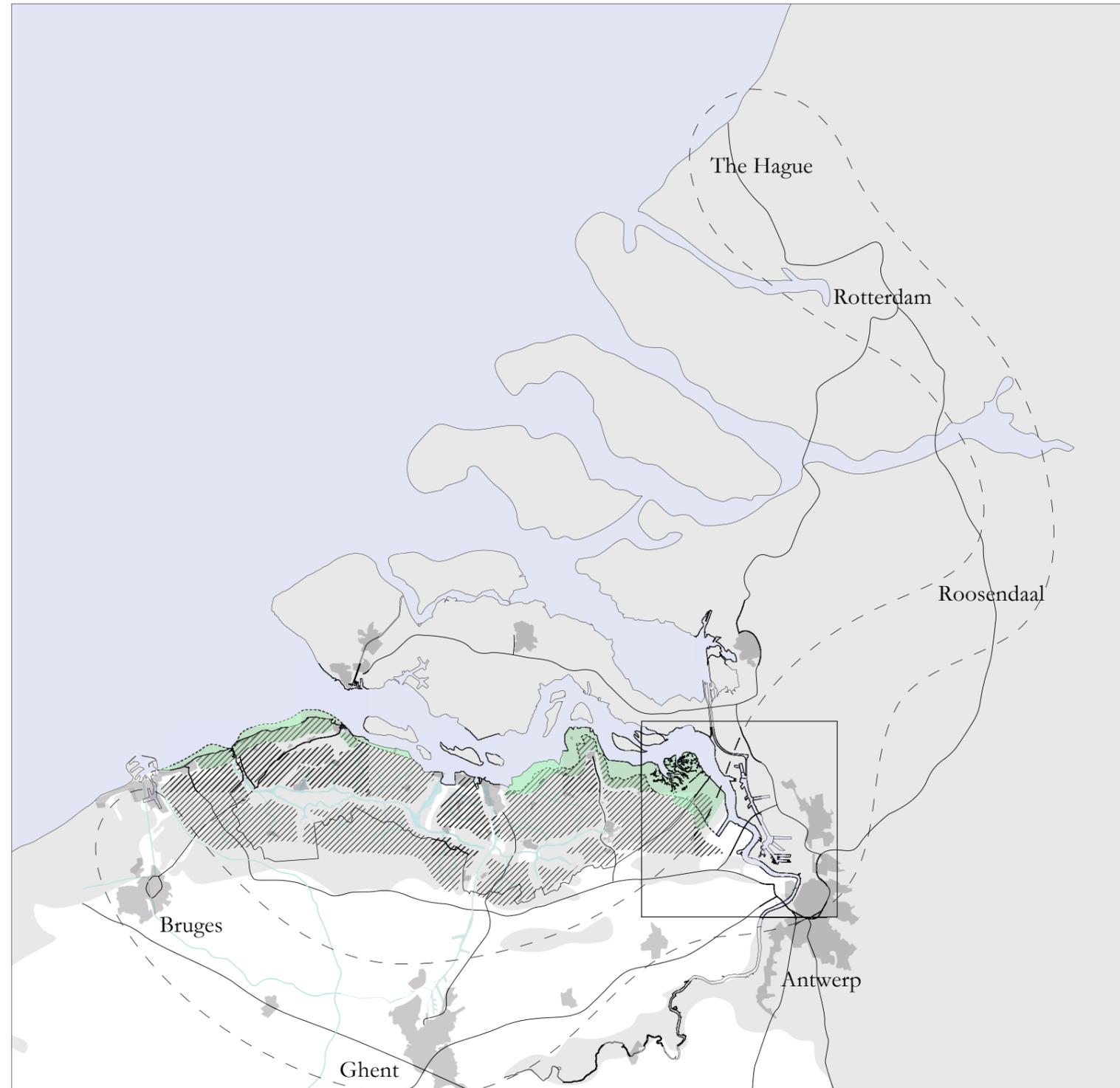


New Territorial Conditions
The Territorial Project

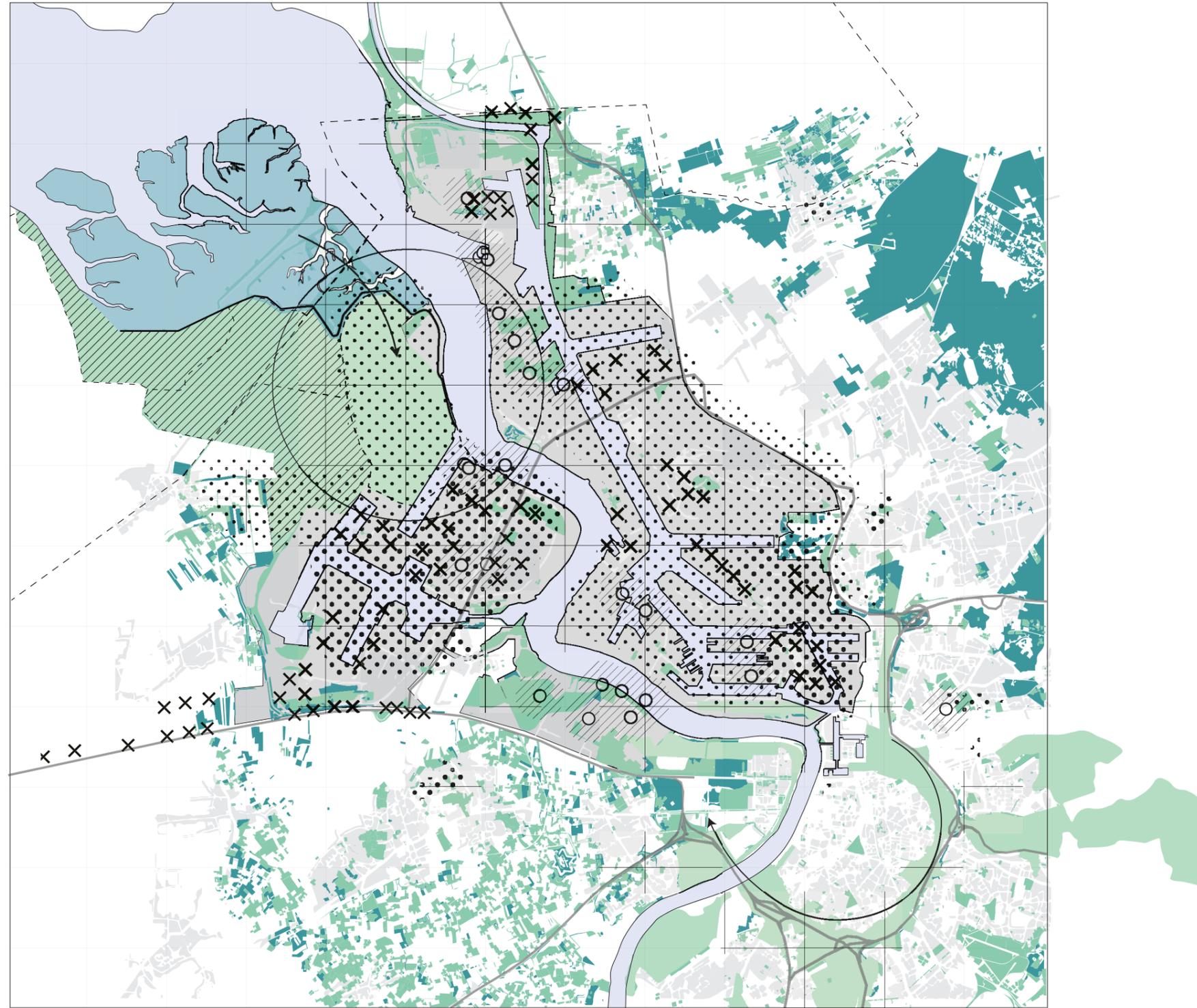
Scheldt Estuary Hazards



New Trans-national Coastal Profile



De-polderisation Project 2025



- | | | |
|---|---|---|
|  Potential Wind Farms |  Wind Turbines |  Semi-polder |
|  Potential Solar Farms |  Residual Heat |  Controlled Tidal Area |
| | |  Natural Reserve |

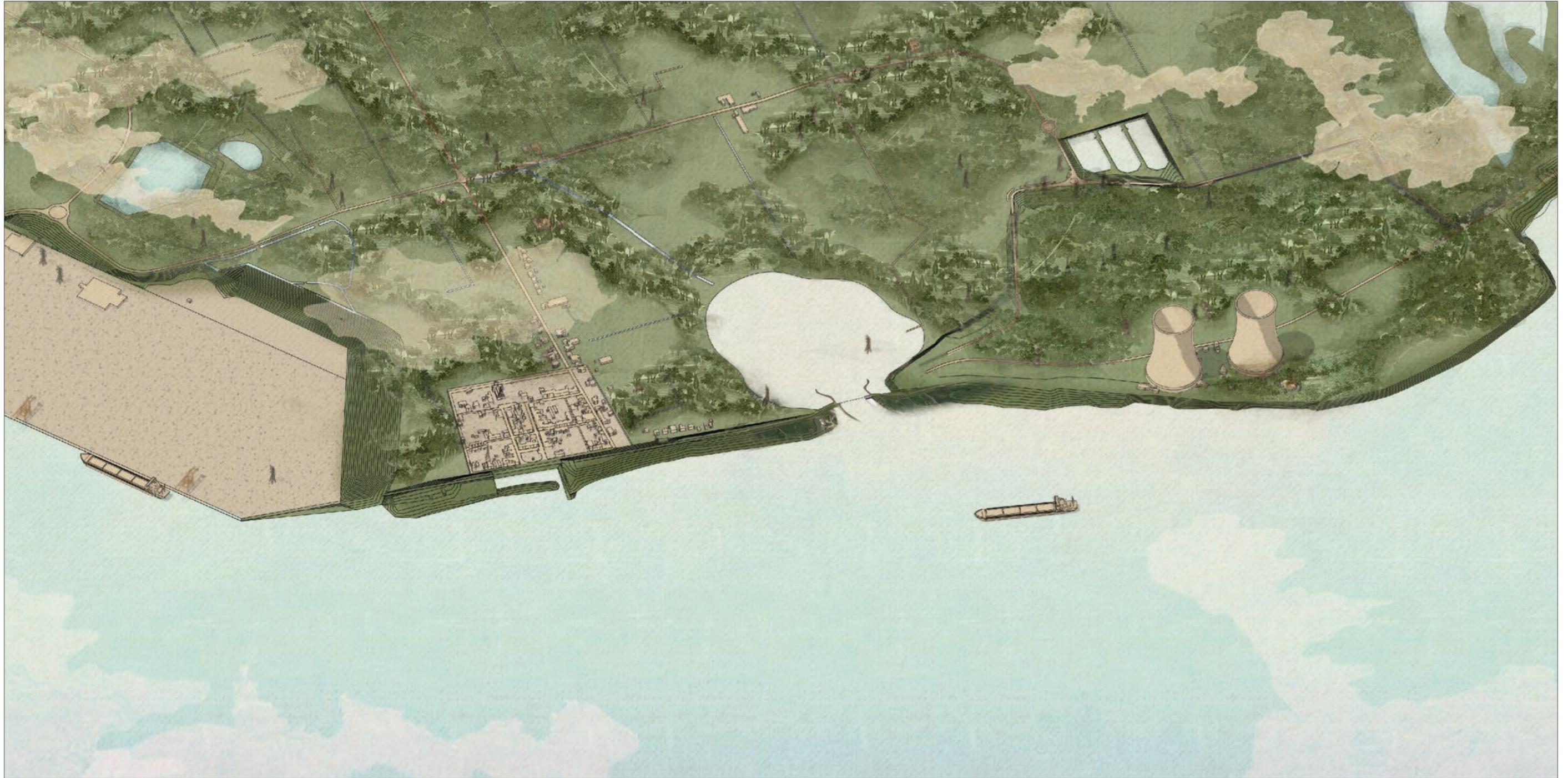
De-polderisation 2050



- | | | |
|---|---|--|
|  Semipolder |  Wind Turbines |  Sandy-Creeks |
|  Potential Tidal Plant |  Agriculture |  Sediments |

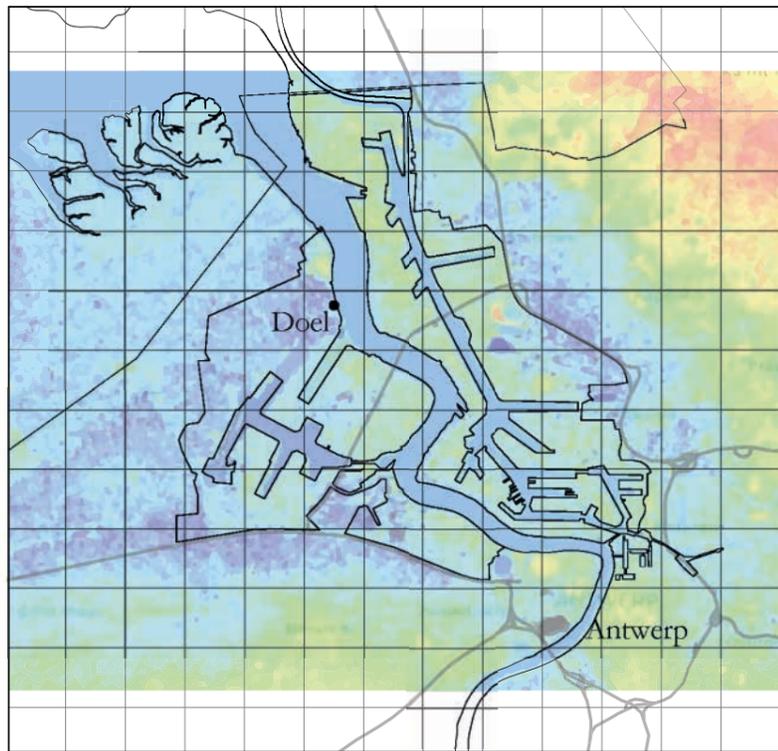


De-polderised Doel



The Possibility of Extinction
The Architectural Project

Flooding Risk



Elevation Map

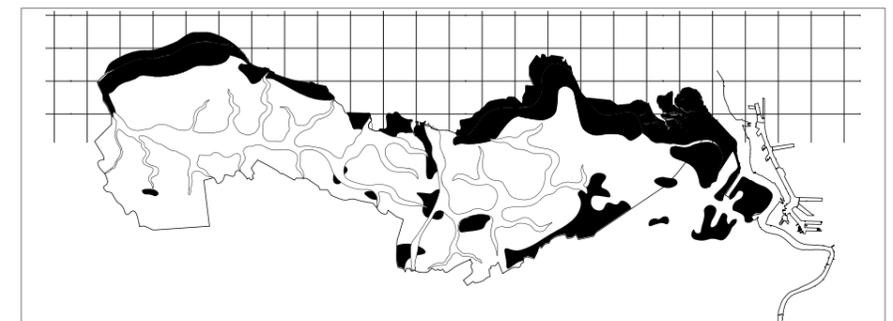
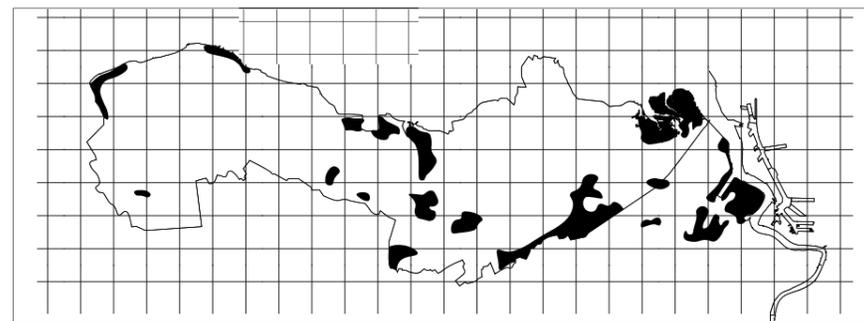
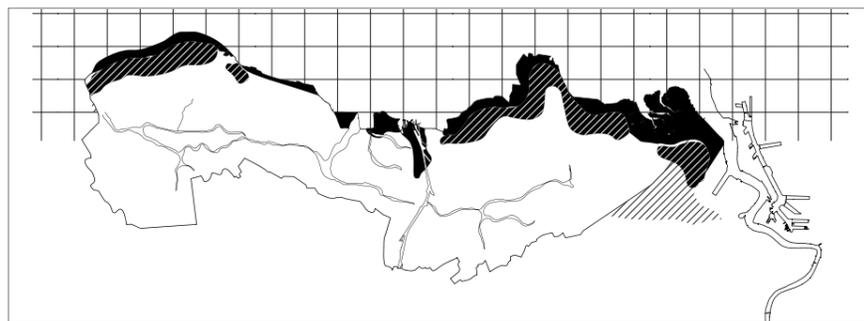
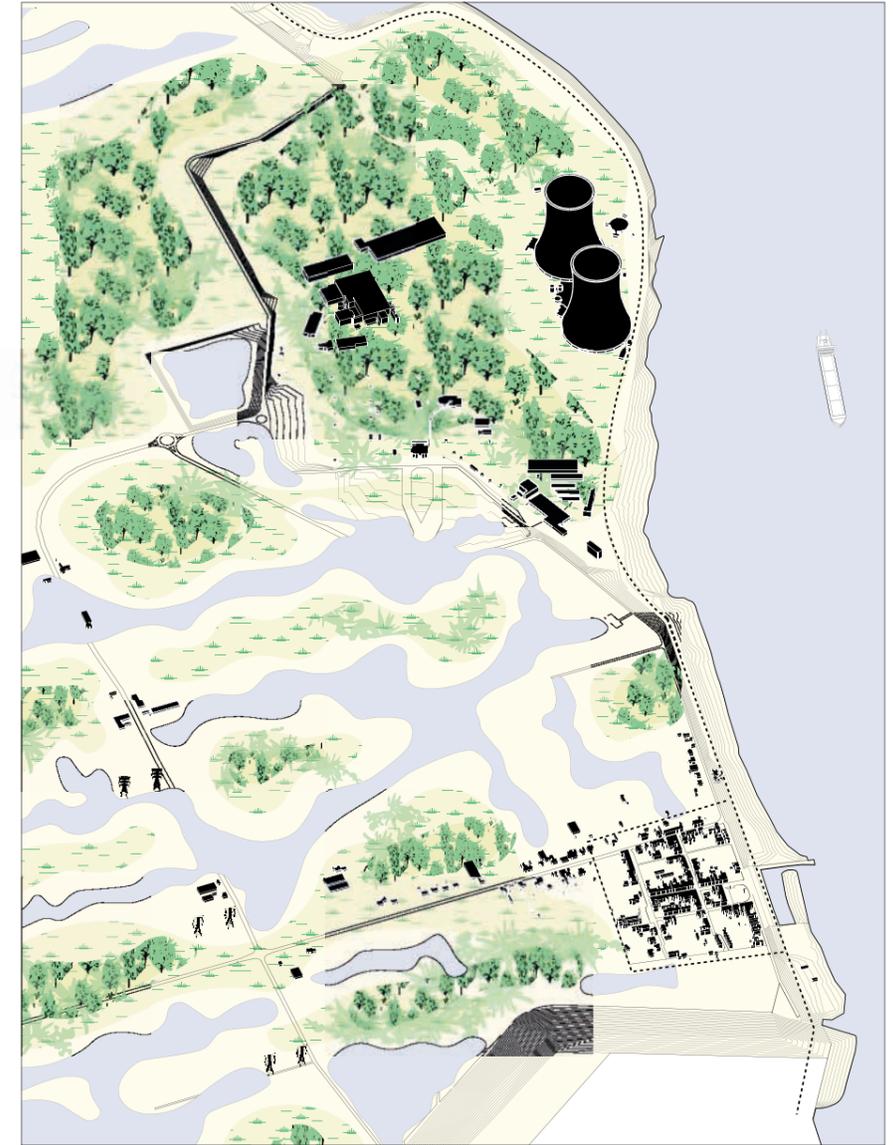


1m Sea Level Rise



5m Sea Level Rise

Territorial Transformations



*Present
(Coastal System)*

*Anthropocene
(Archipelago)*

*Post-Anthropocene
(Swampland)*

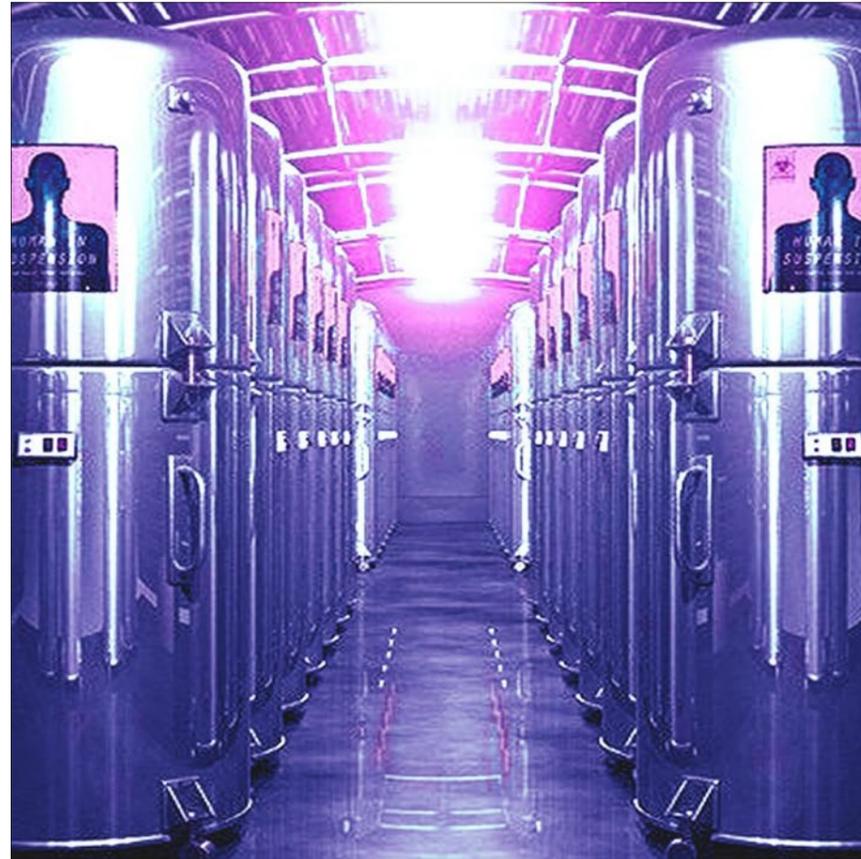


Noah's Ark by Simon de Myle
(1570)



Museum of Extinction

*Embalming
Amberization*



Frozen Zoo

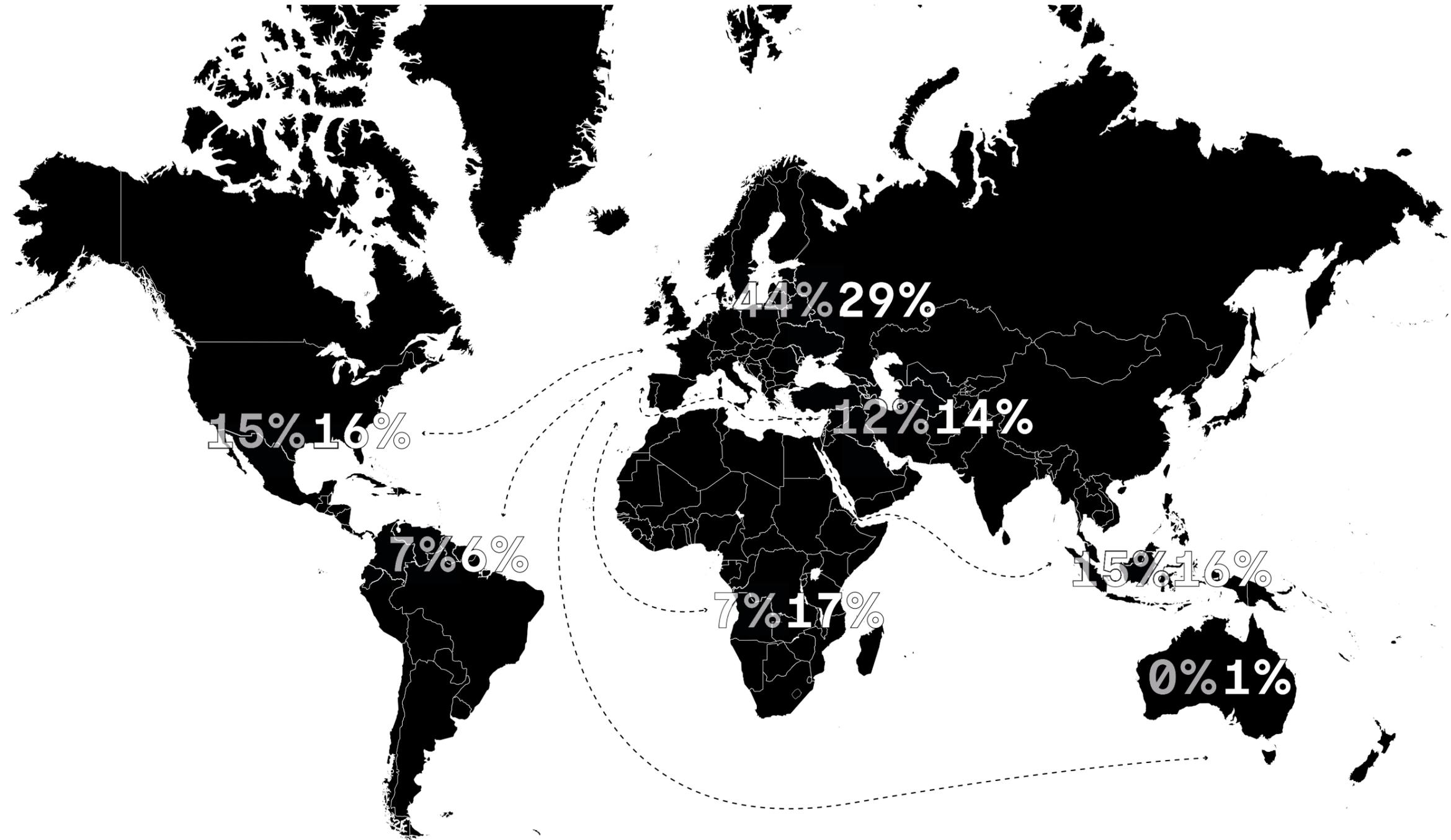
Cryopreservation



Seed Vault

*Cryopreservation
In vitro
Dormant Cuttings*

World-level Infrastructure





Relic Town

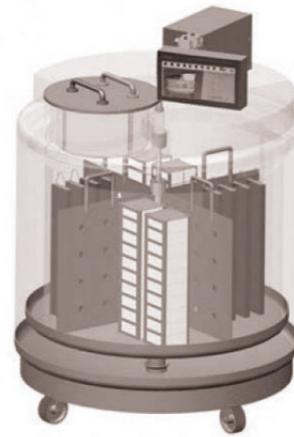


Relic Town 2025

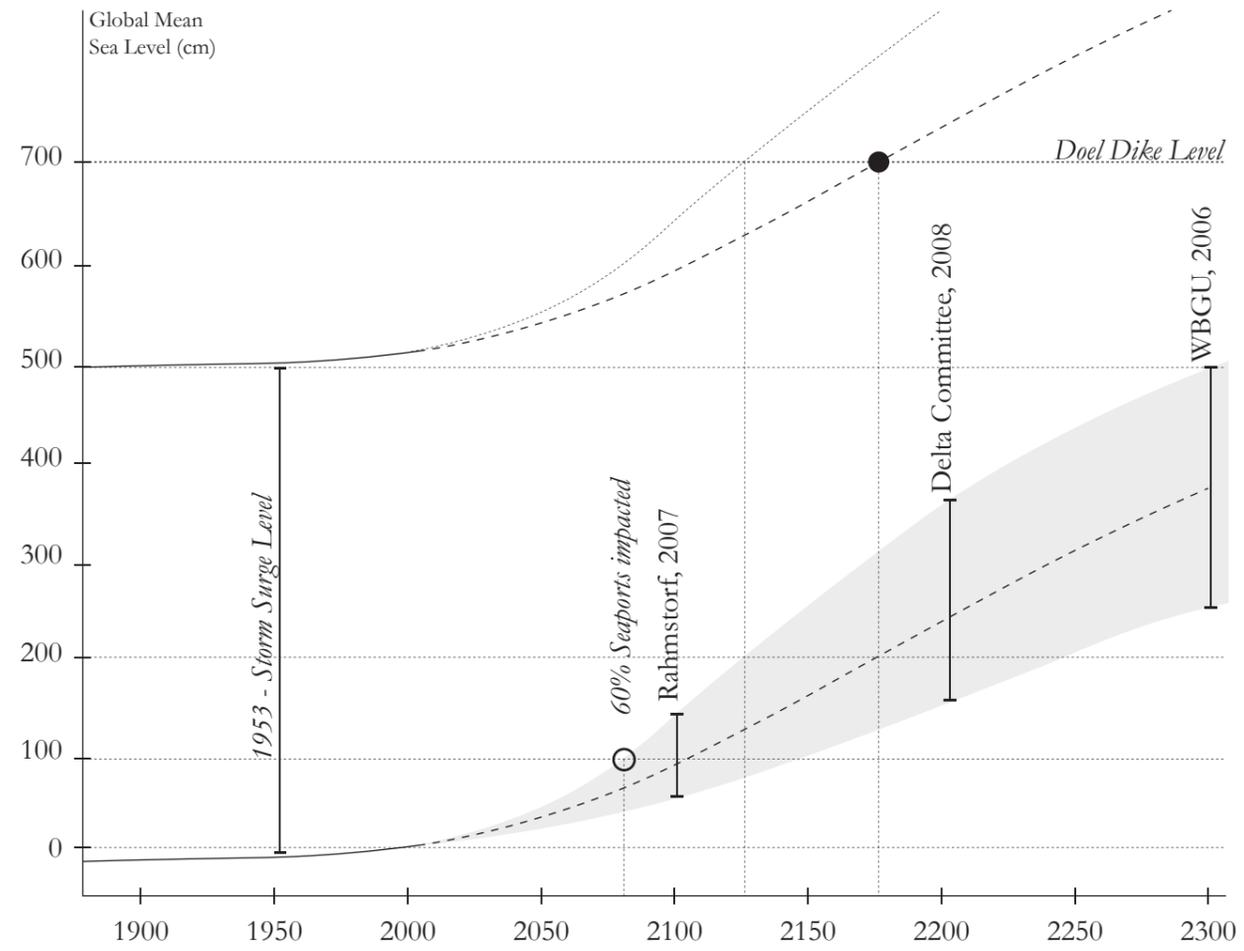


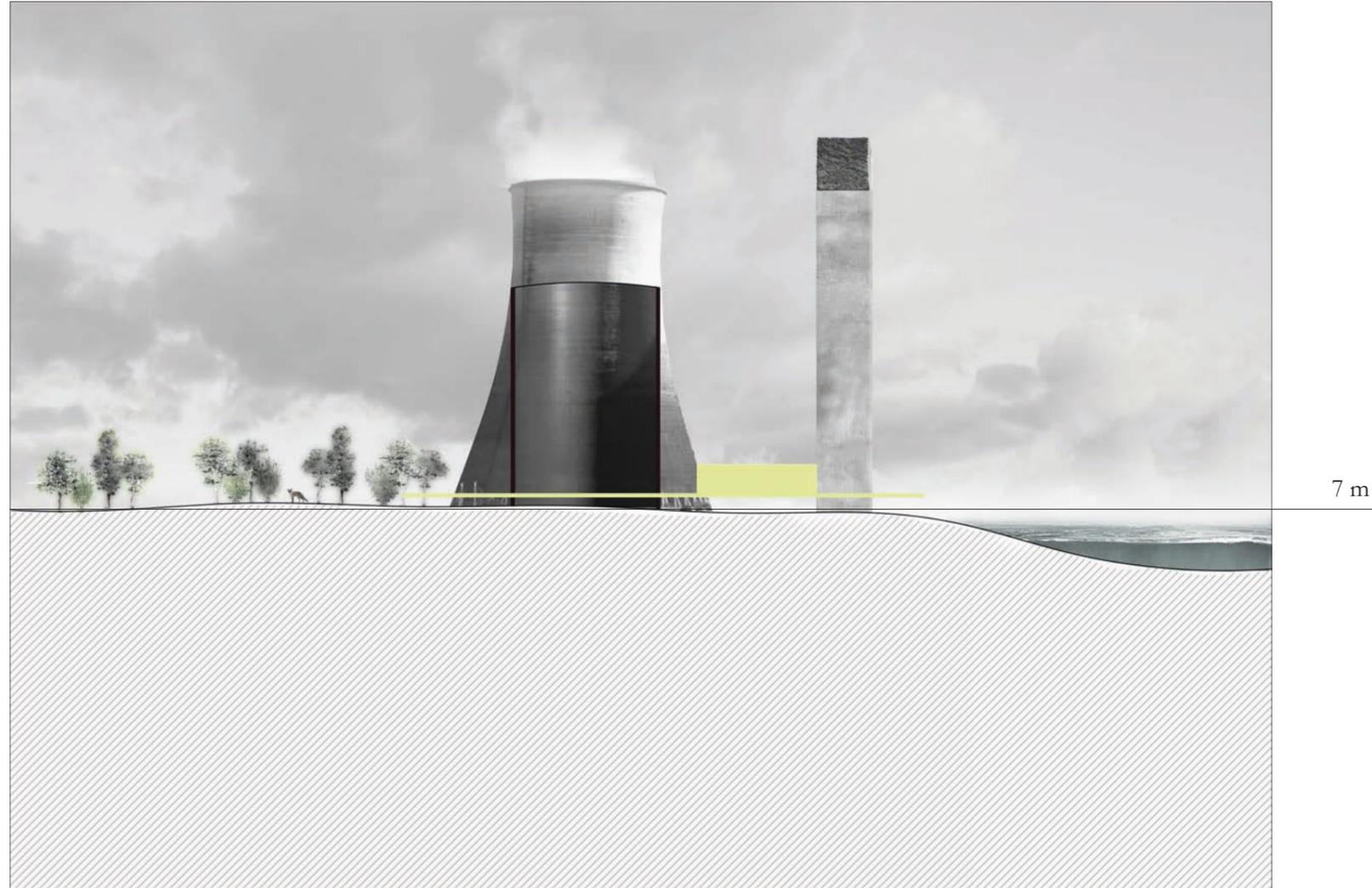
Relic Town Post-Anthropocene

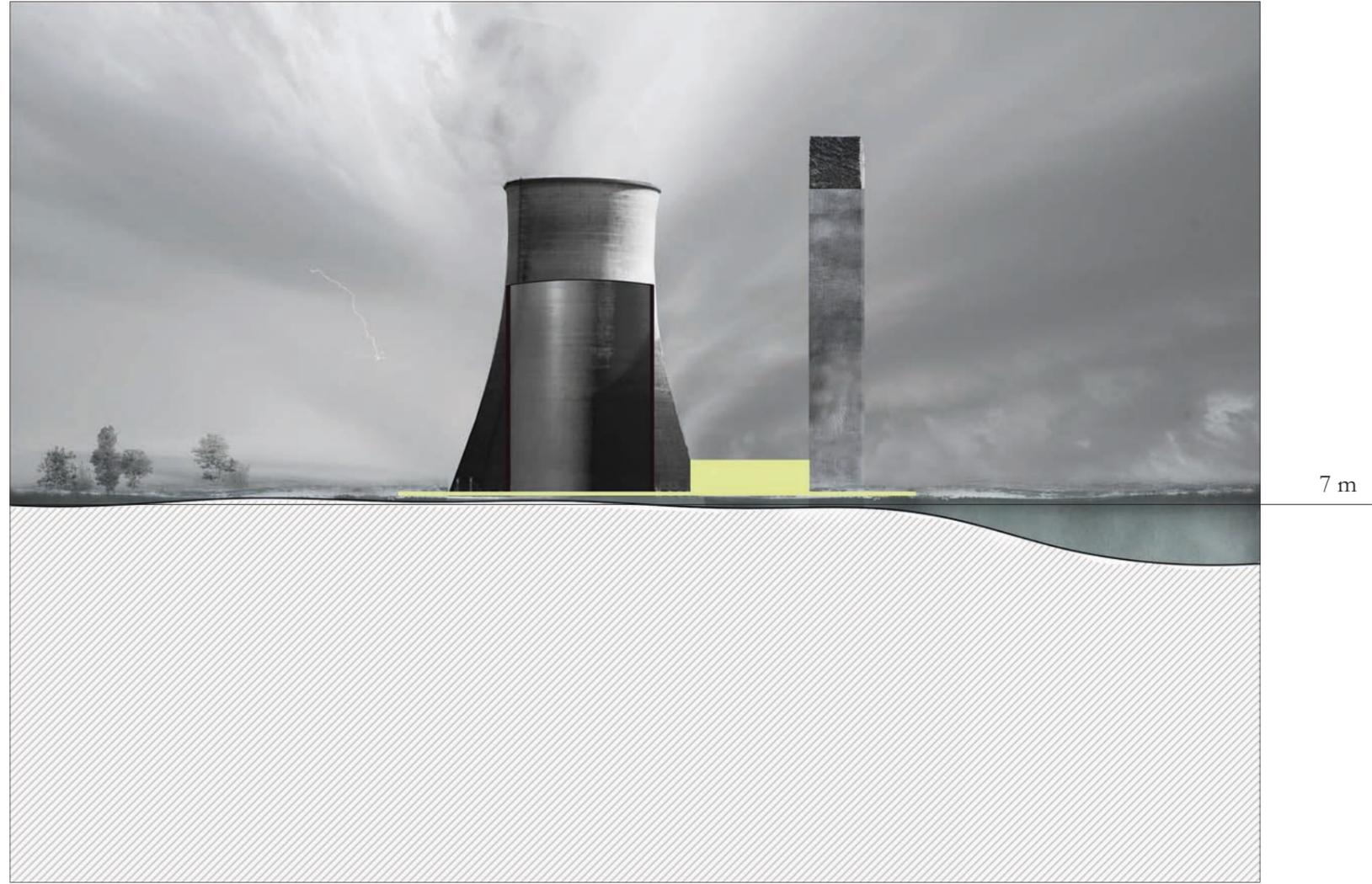
Series of Containers

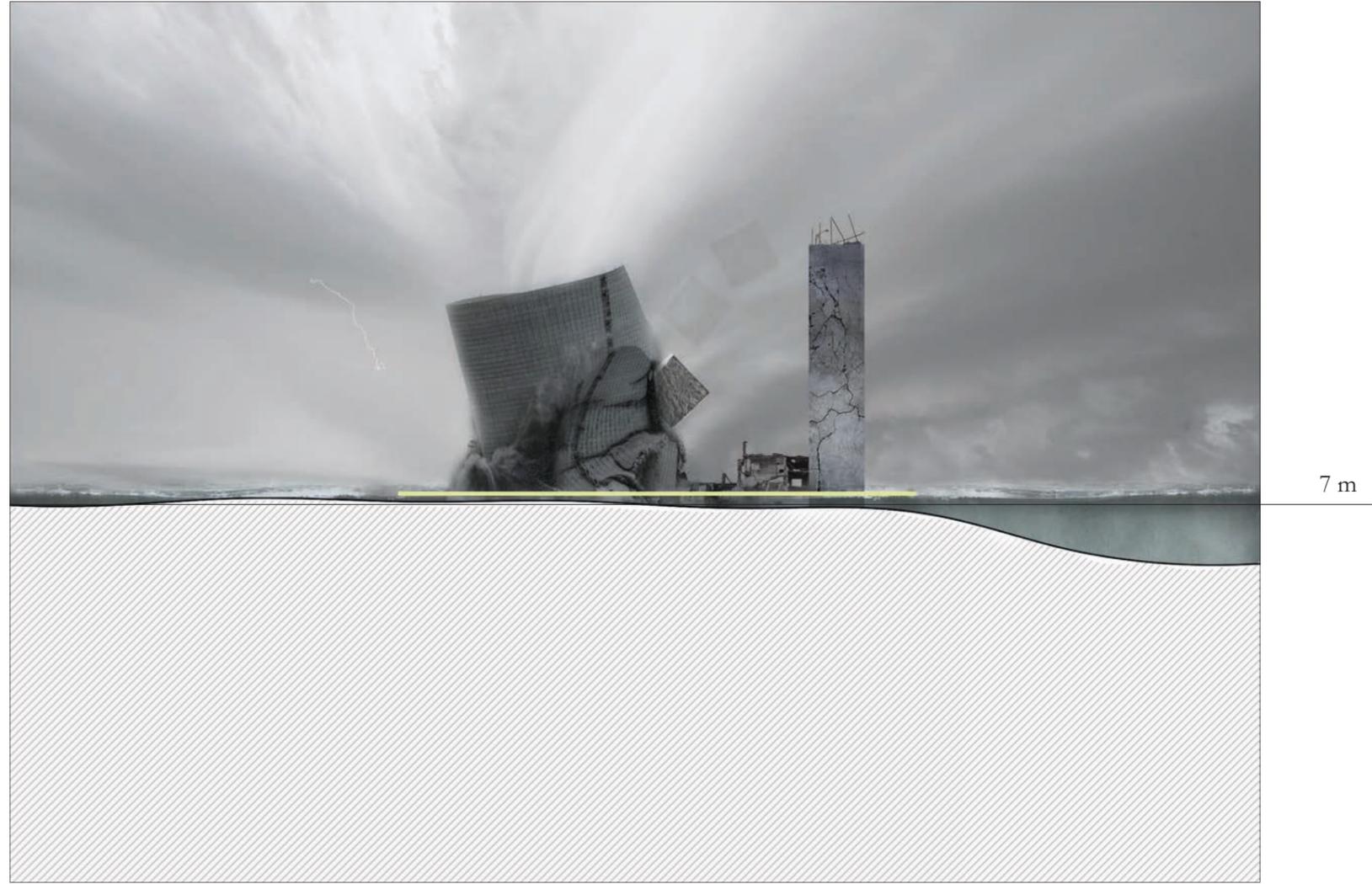


Sea-level Change





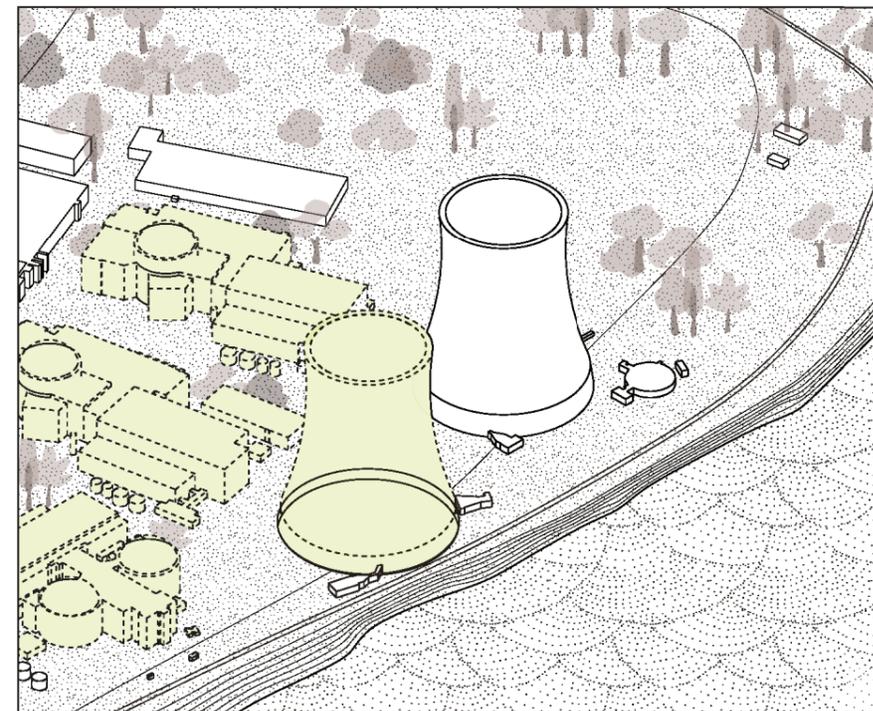
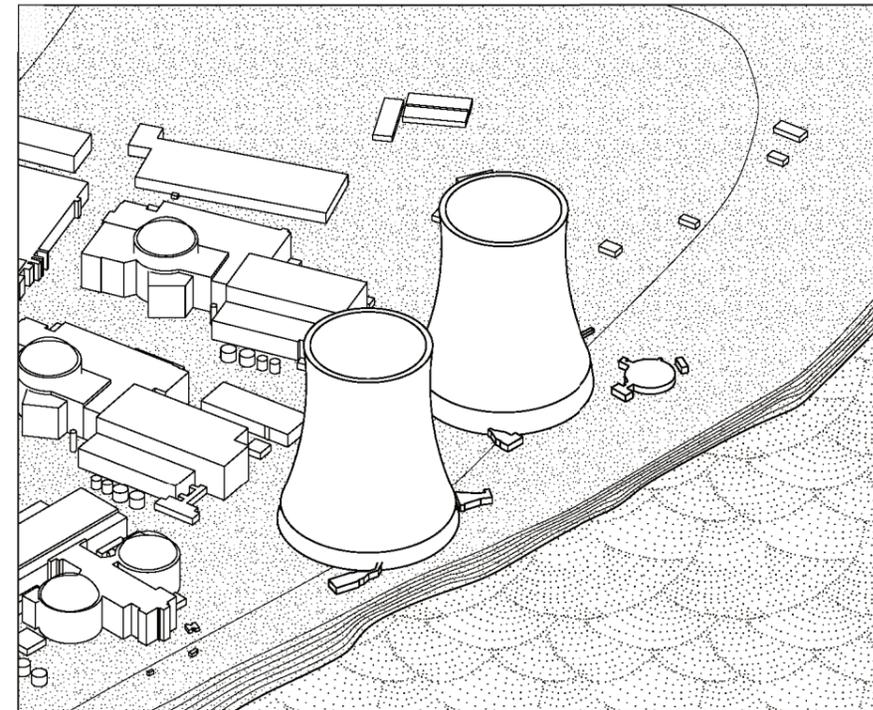
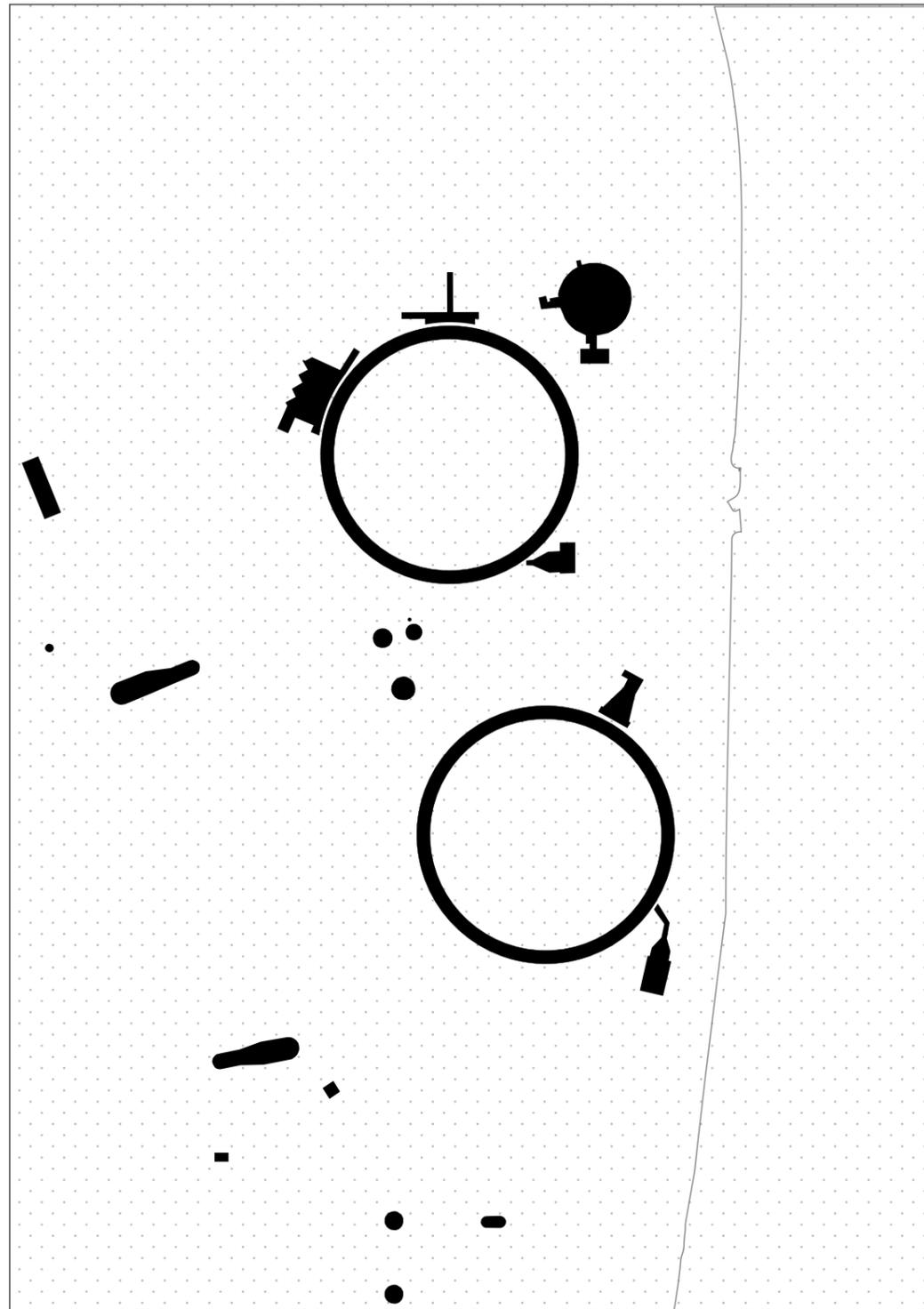




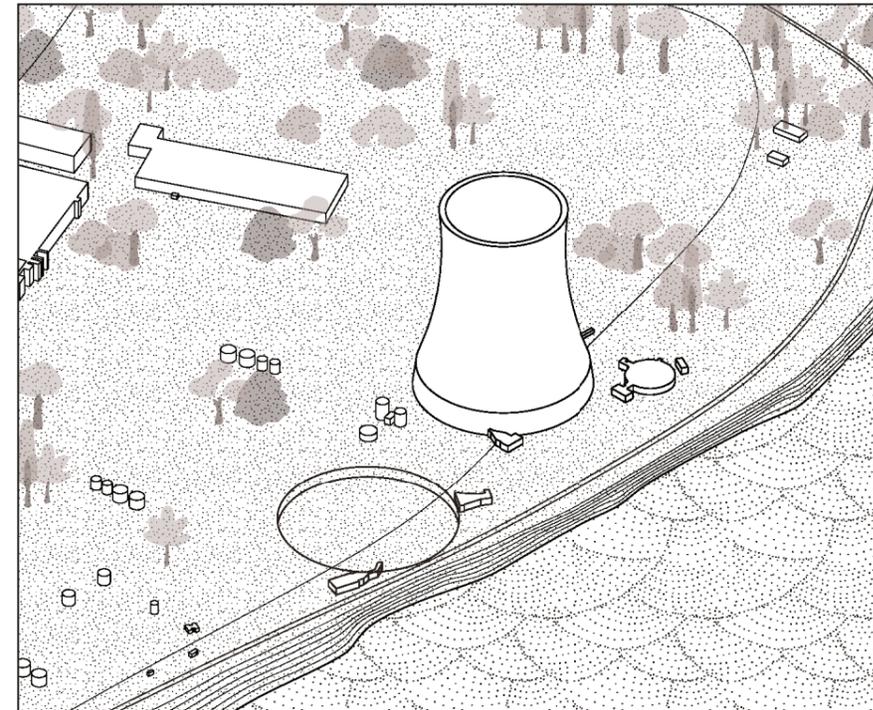
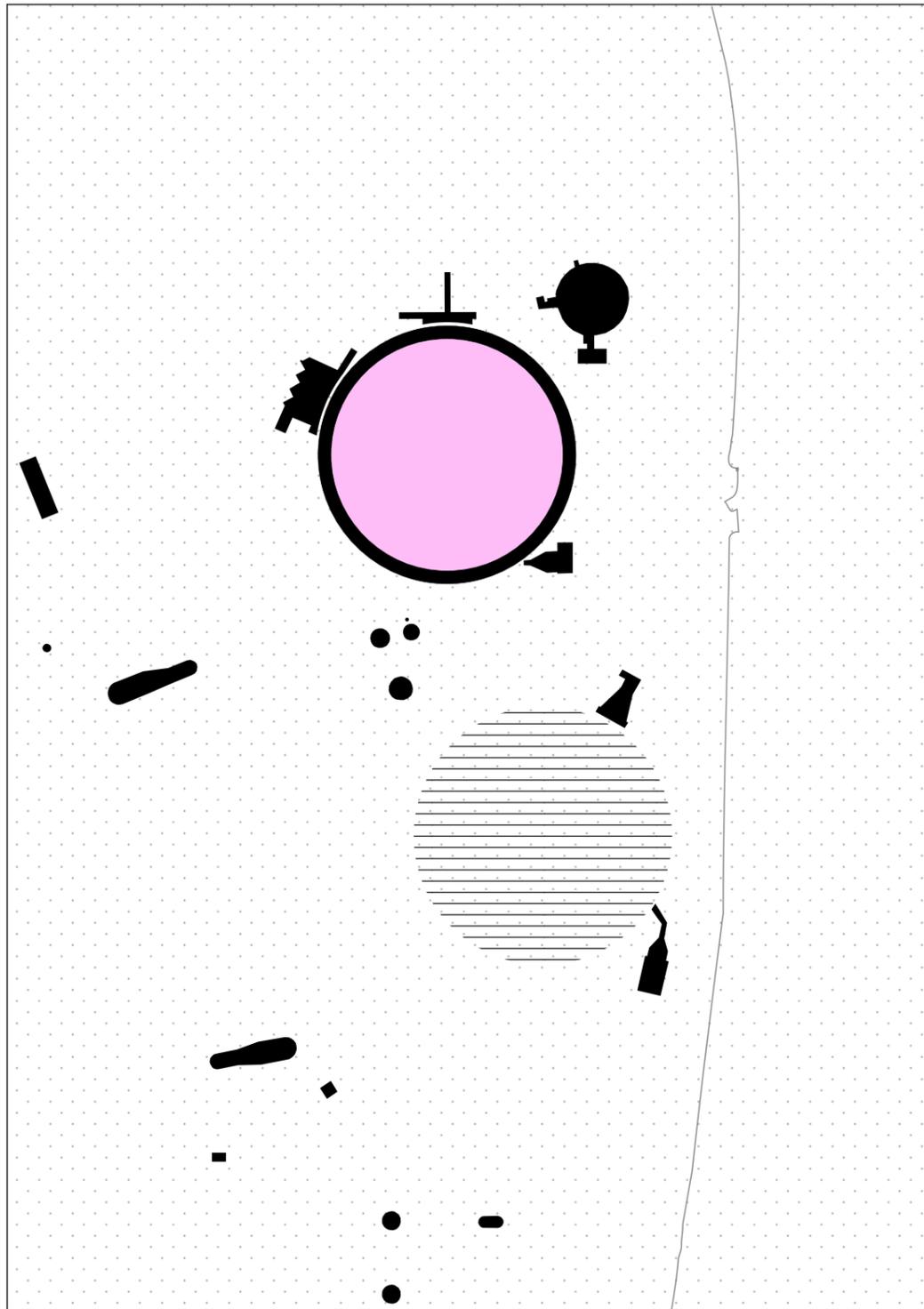
After 2100



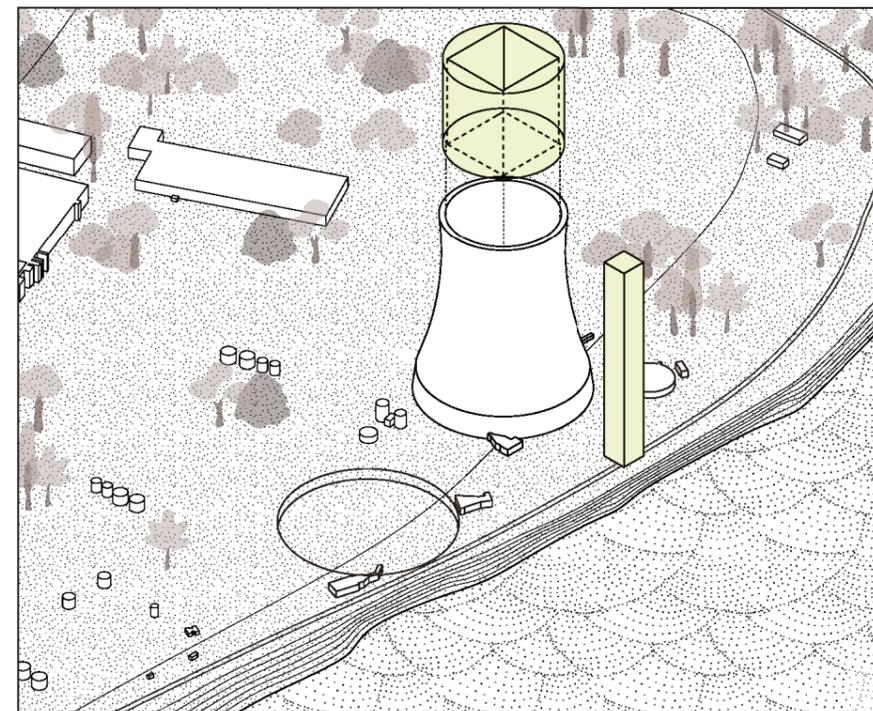
De-nuclearisation

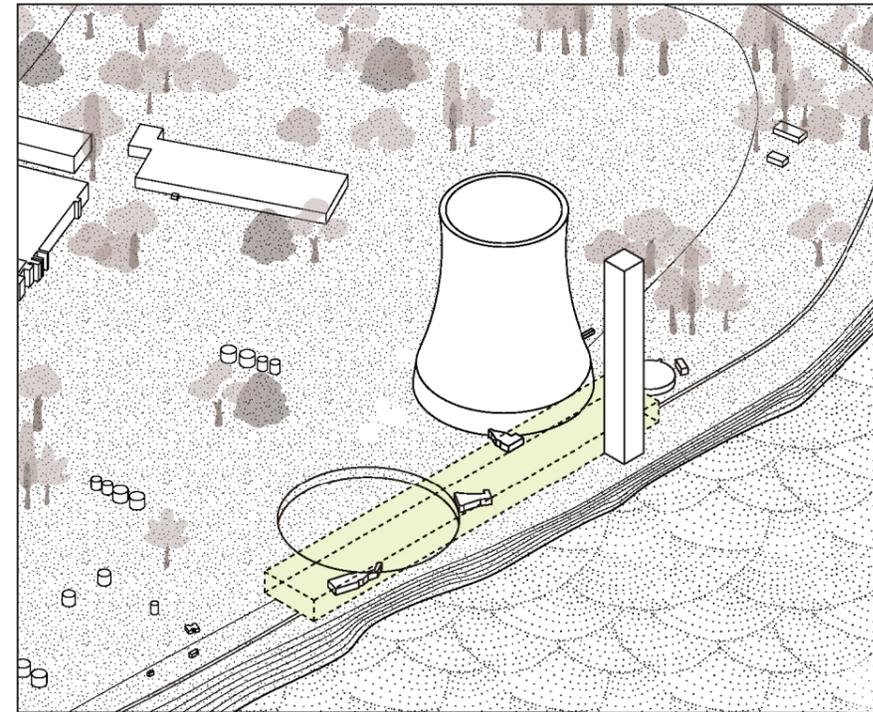
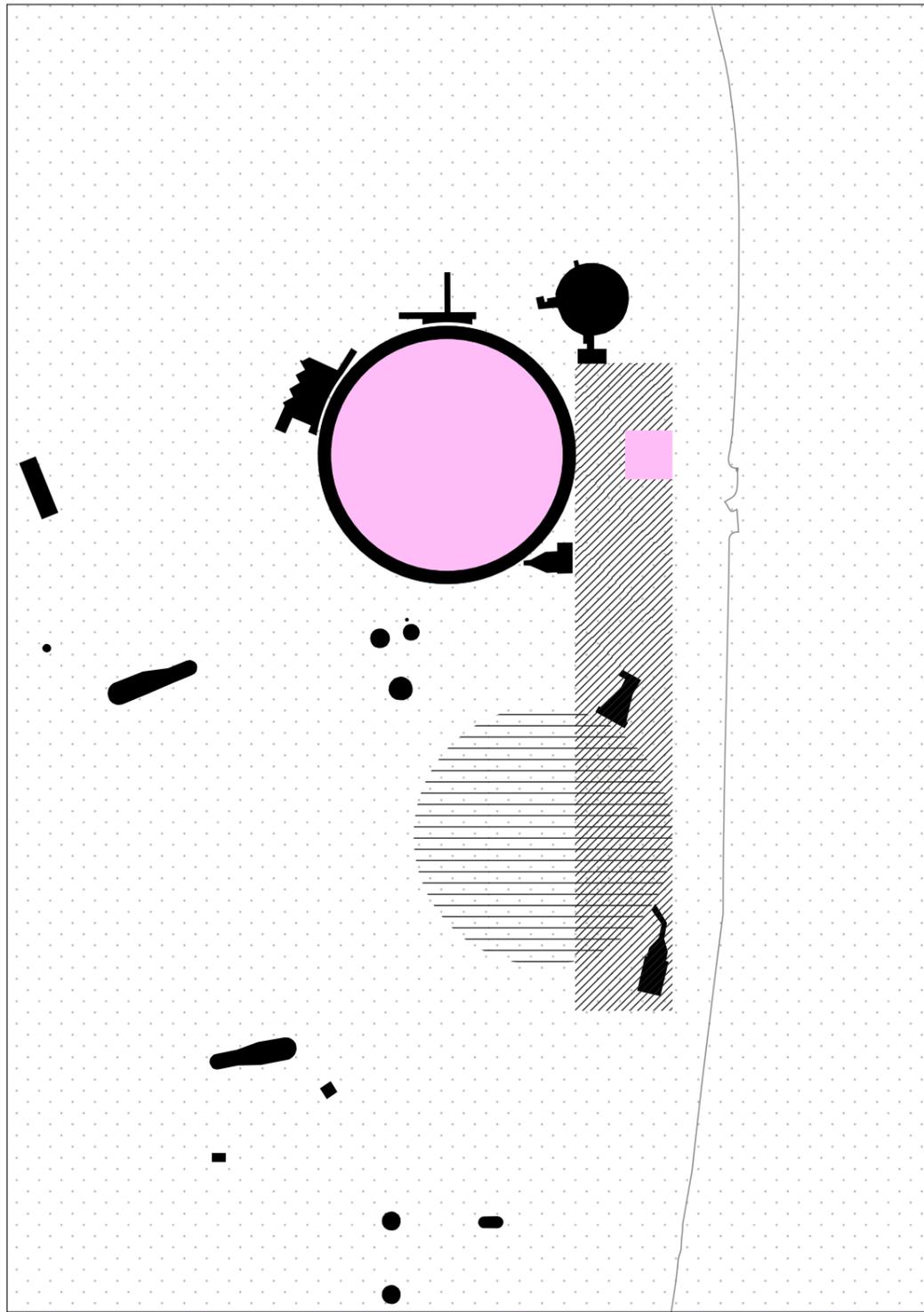


Seed Vault Installation

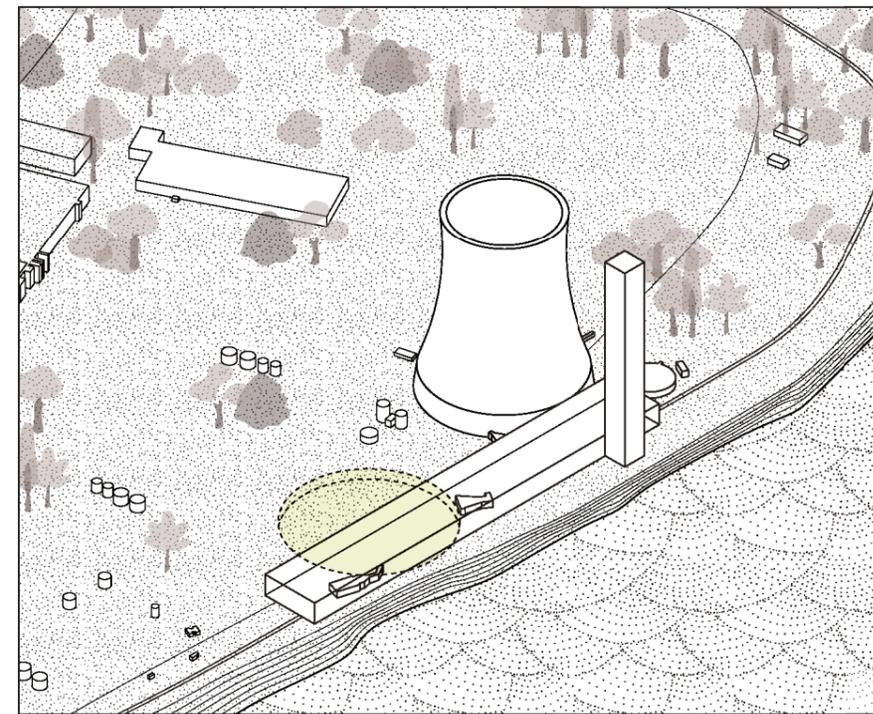


“Ground Zero”

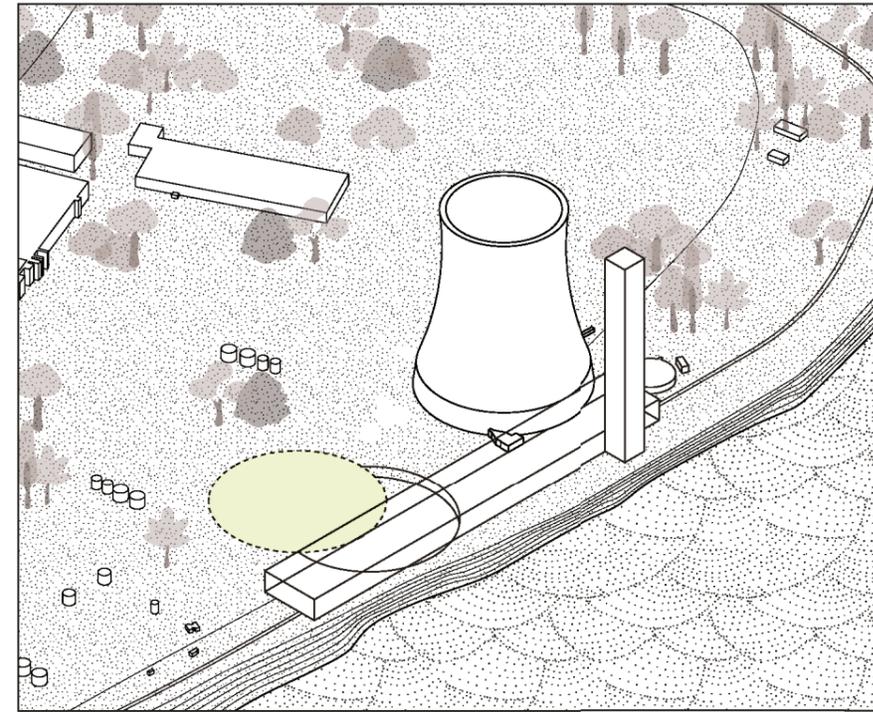
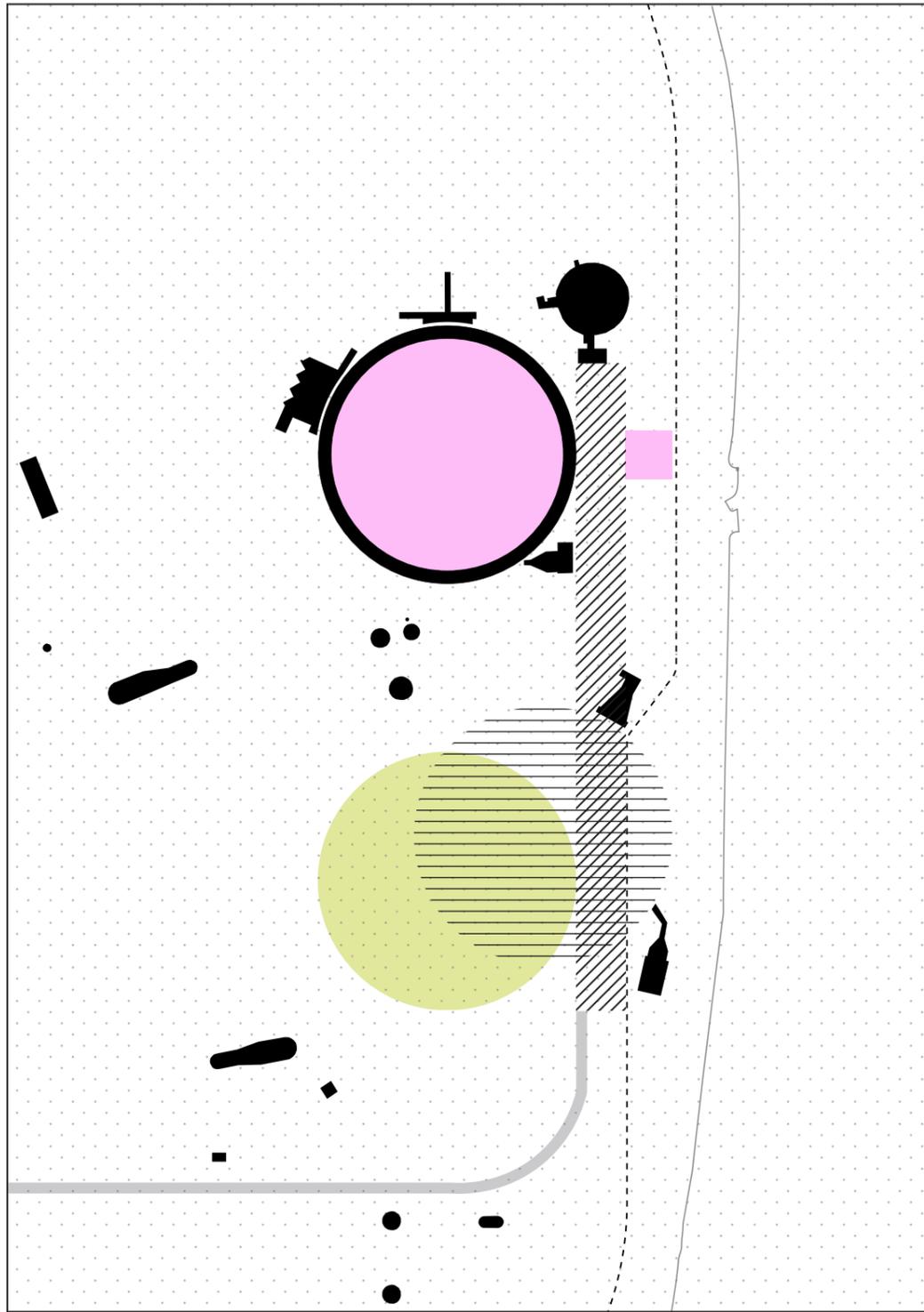




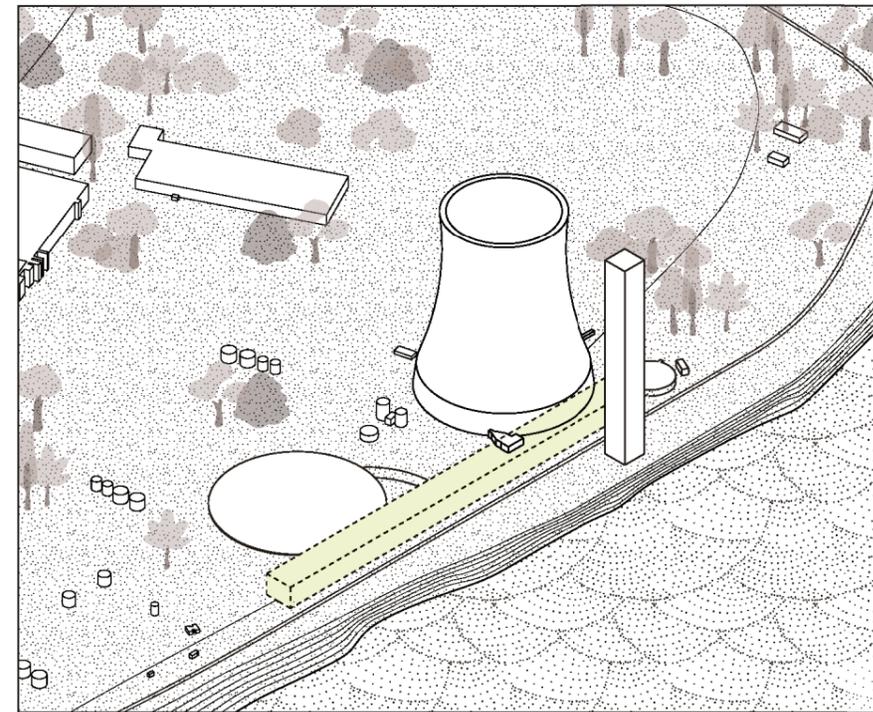
Lab-scape



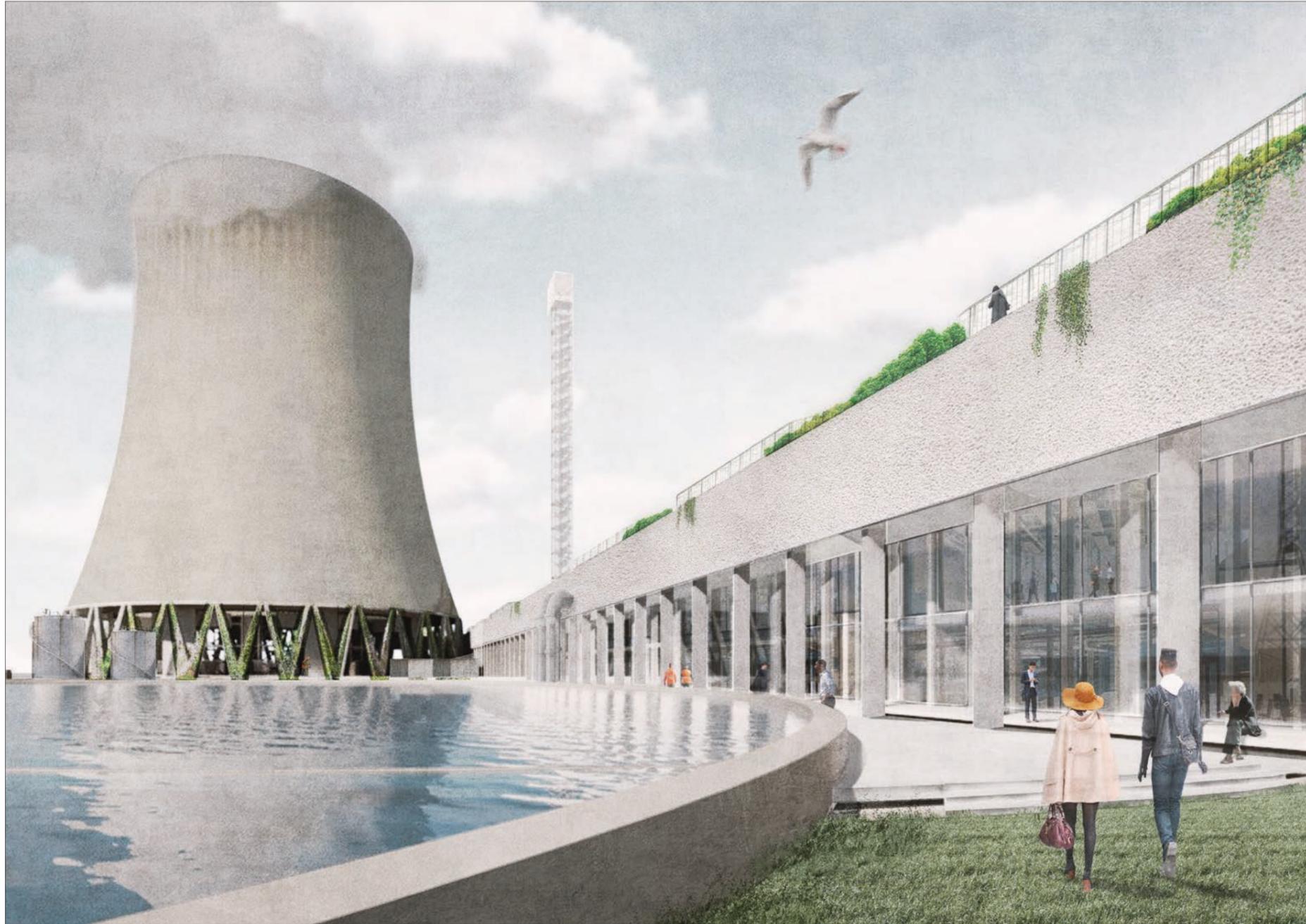
Museum



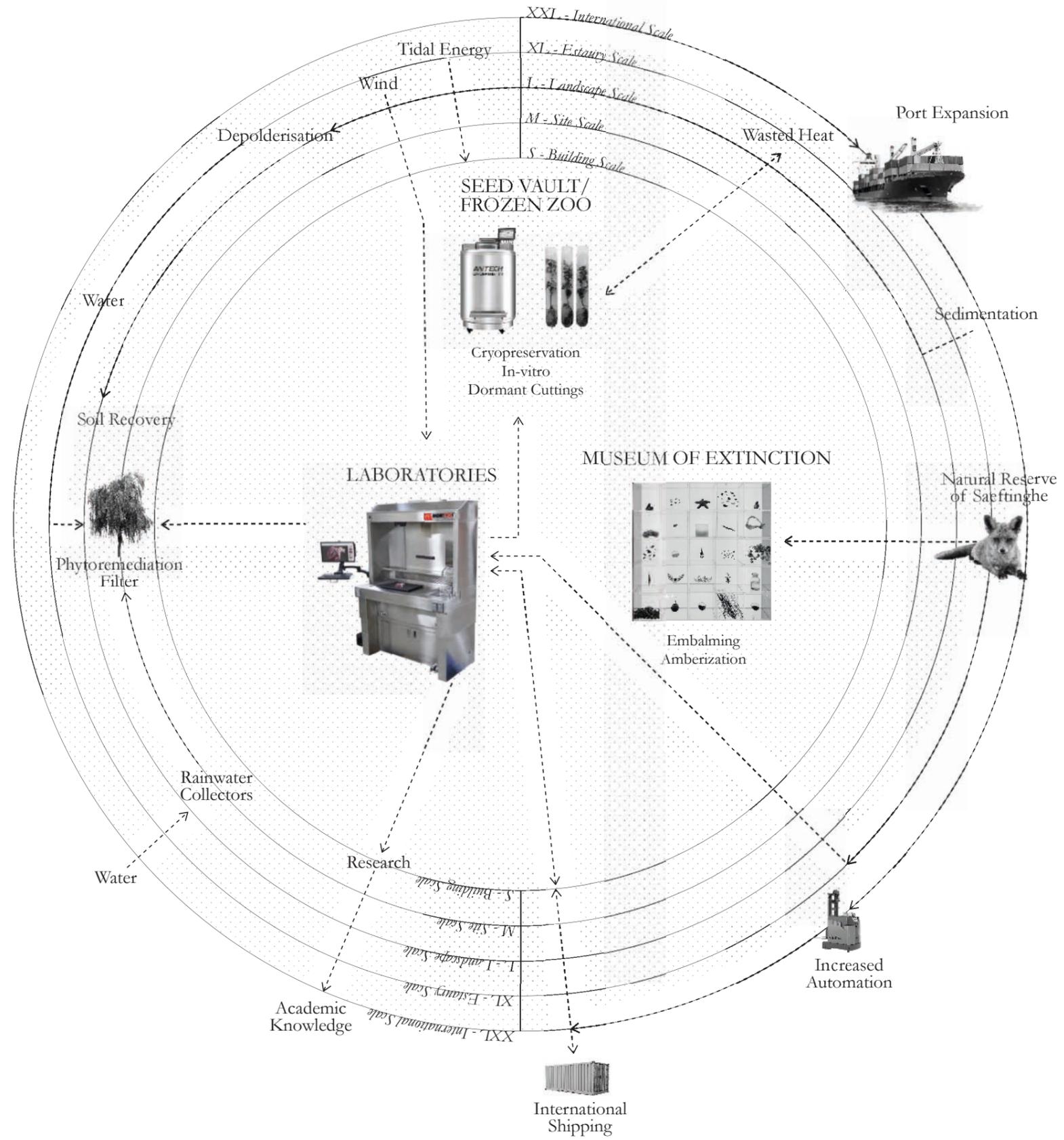
Eclipsed Roof



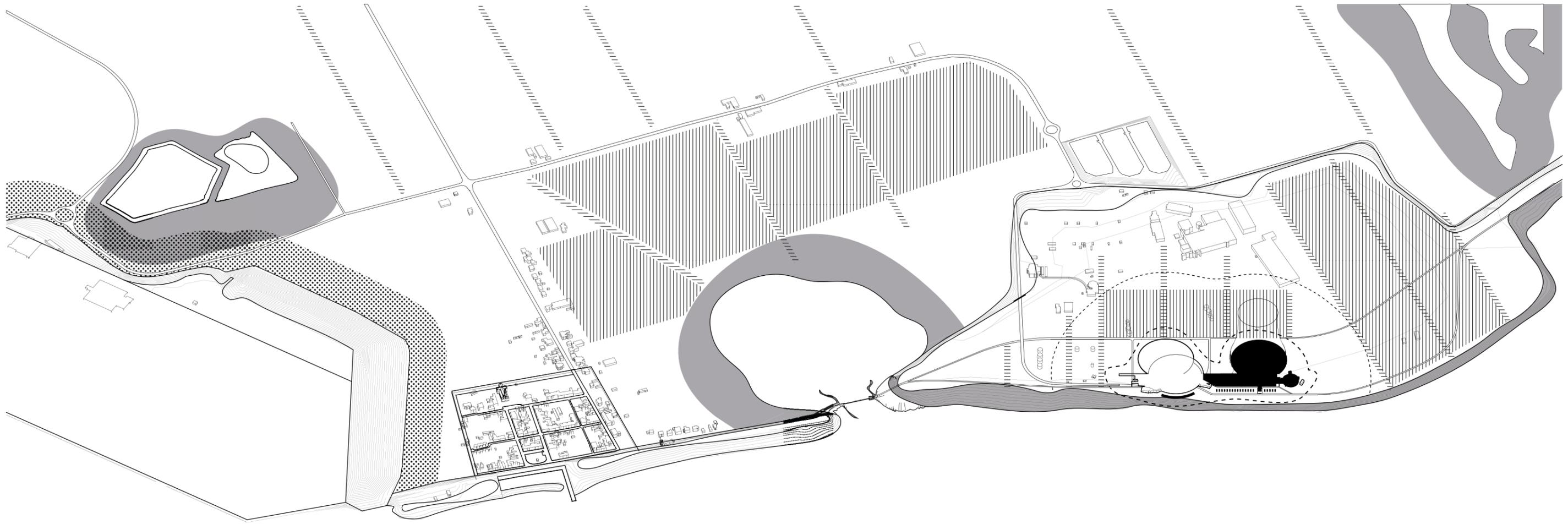
Promenade

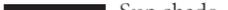


Programmatic Eco-system

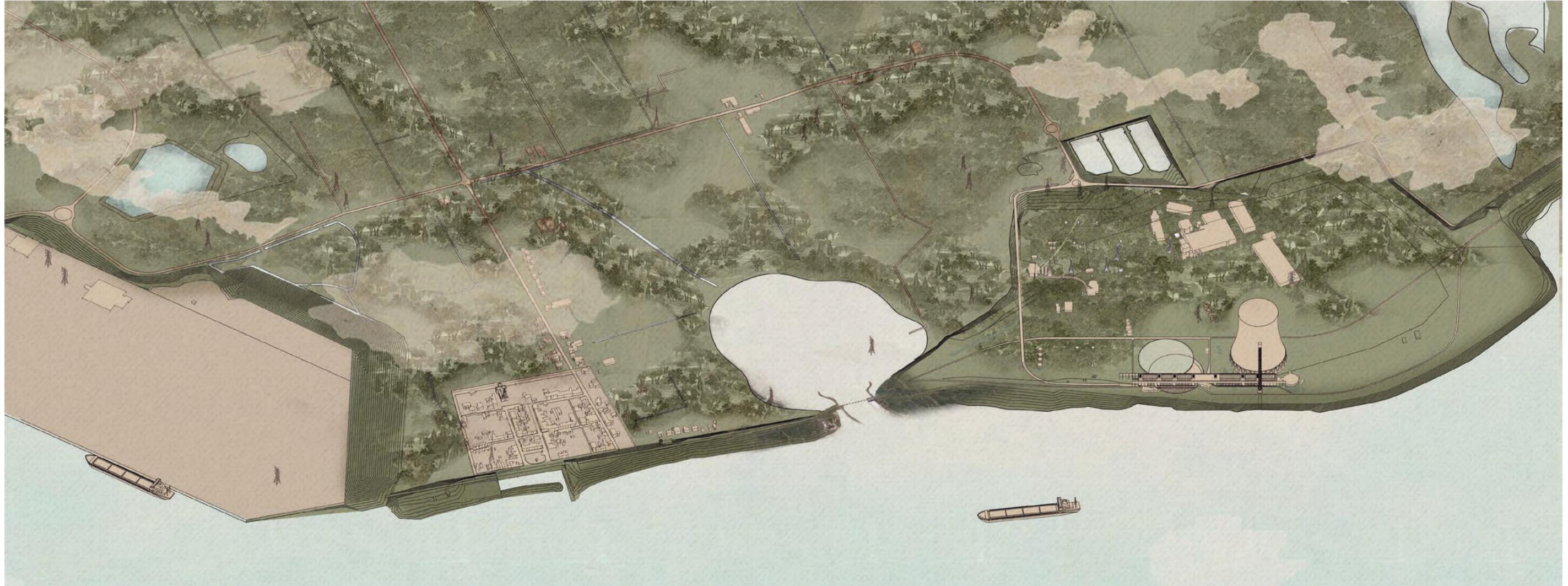


Climatic and Landscape Requirements

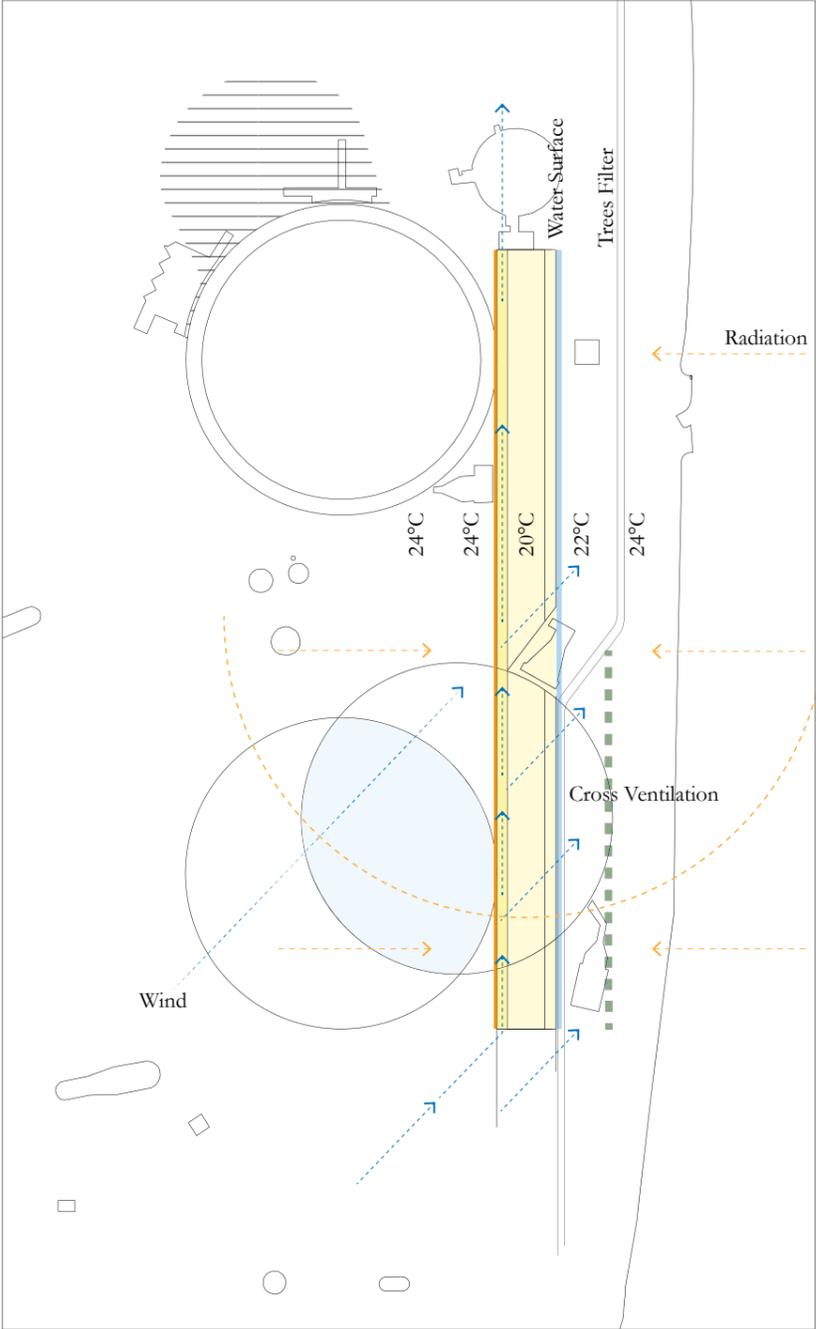


- | | | |
|---|--|---|
|  Noise Pollution |  Shadow environment |  Sun shade |
|  Crops |  Phytodepuration |  Screen |

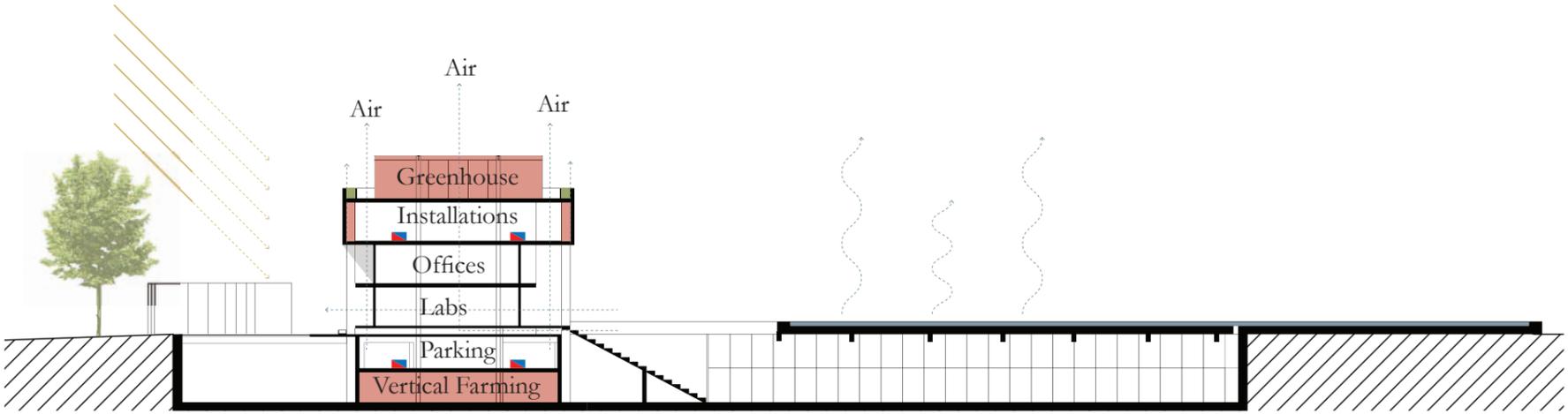
De-polderisation



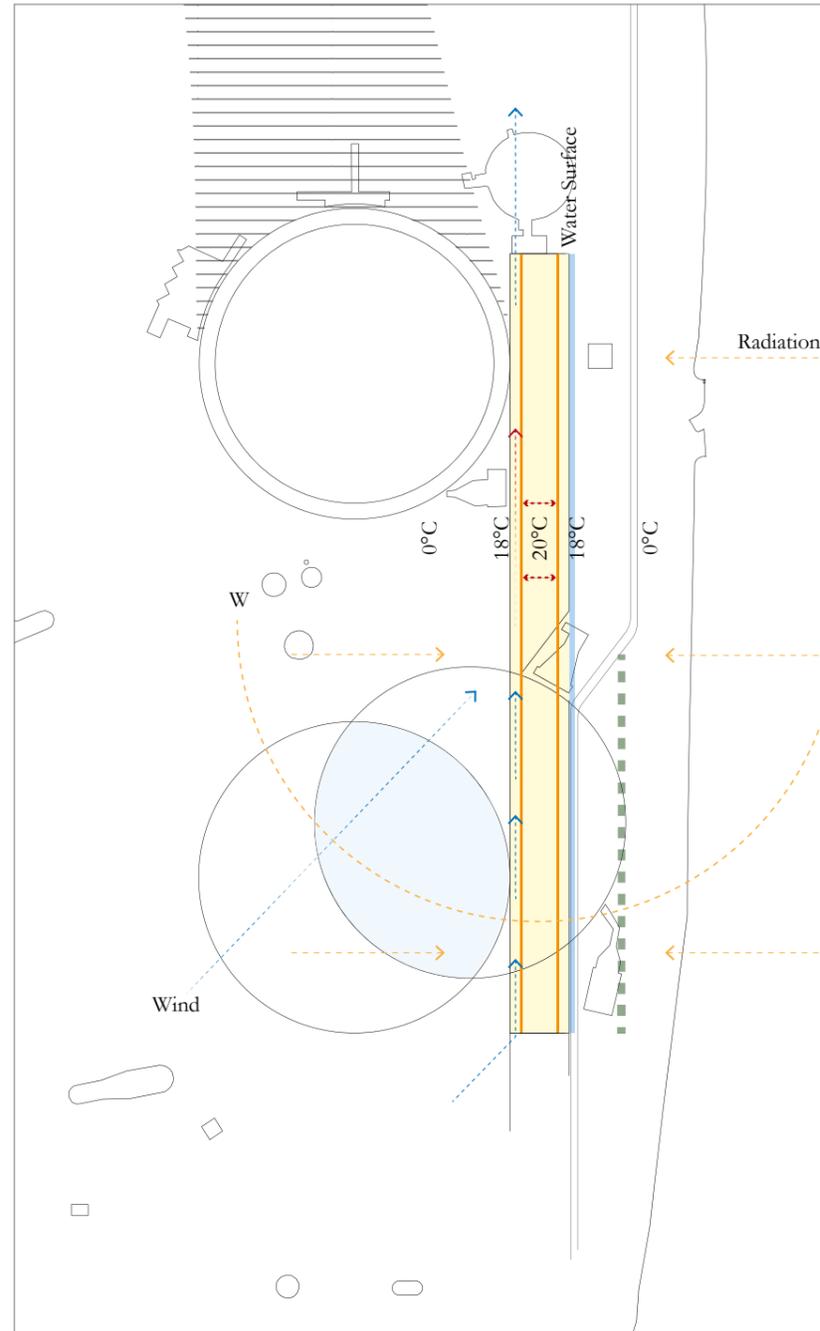
Summer Climate Strategy



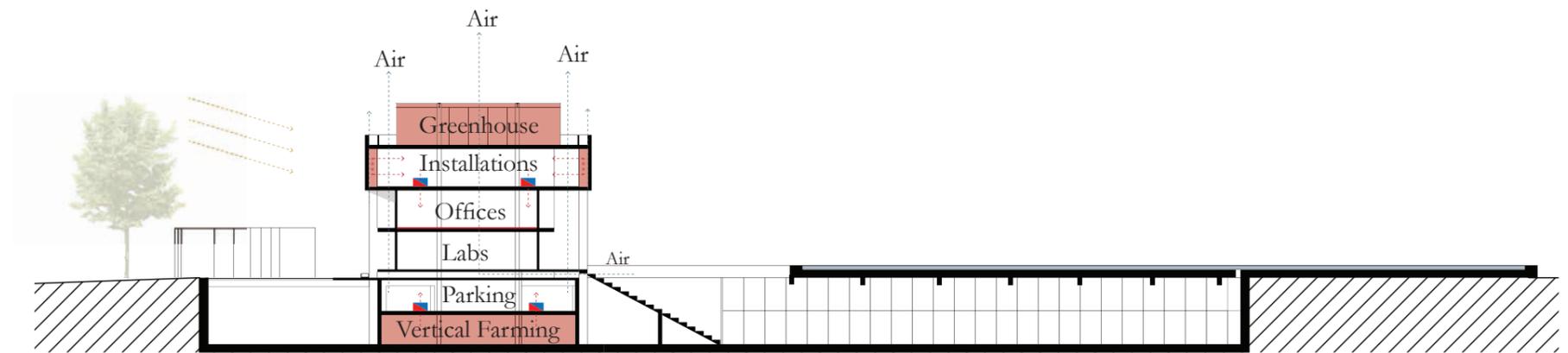
Summer



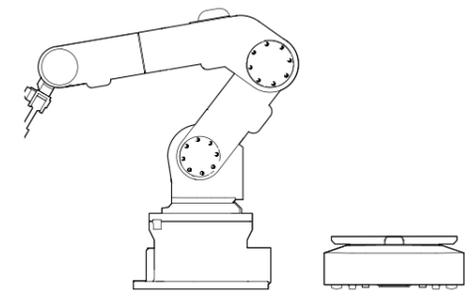
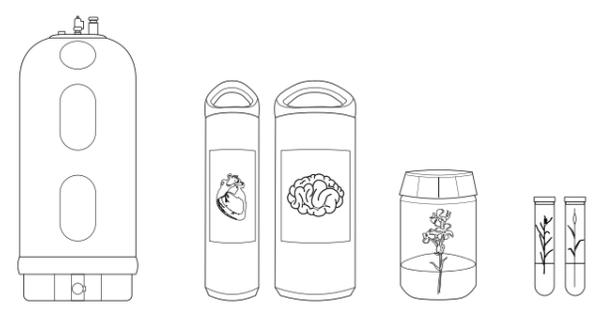
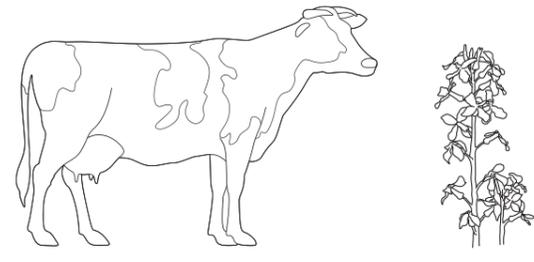
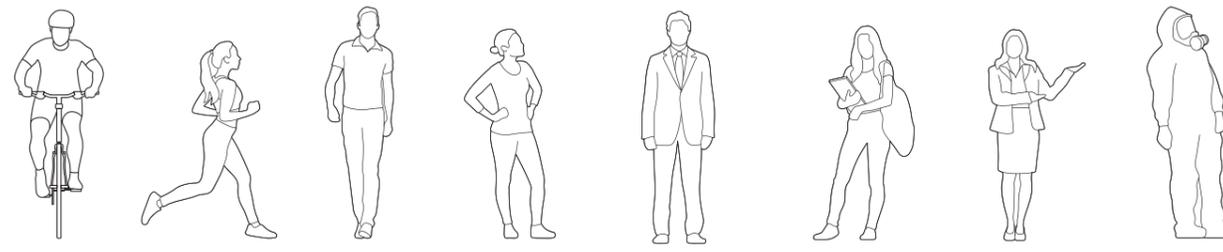
Winter Climate Strategy

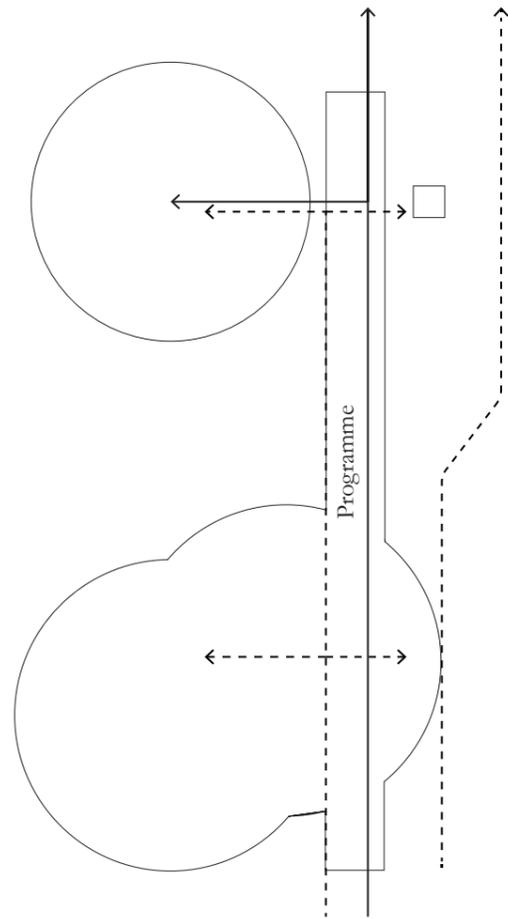


Winter

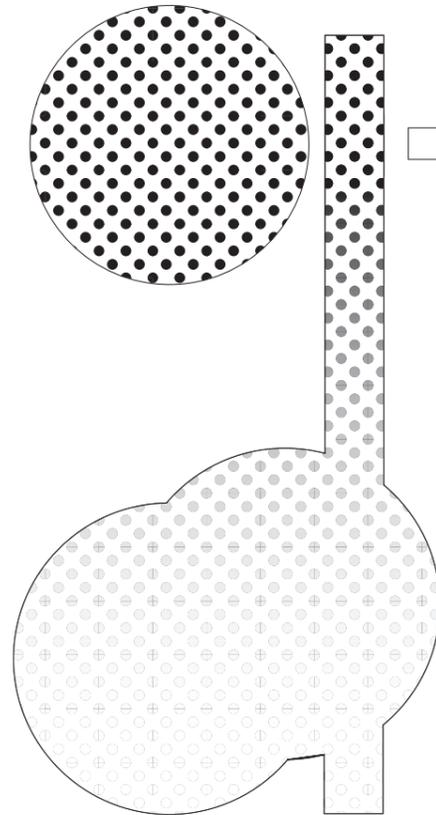


Users





Efficient Material Flow & Circulation

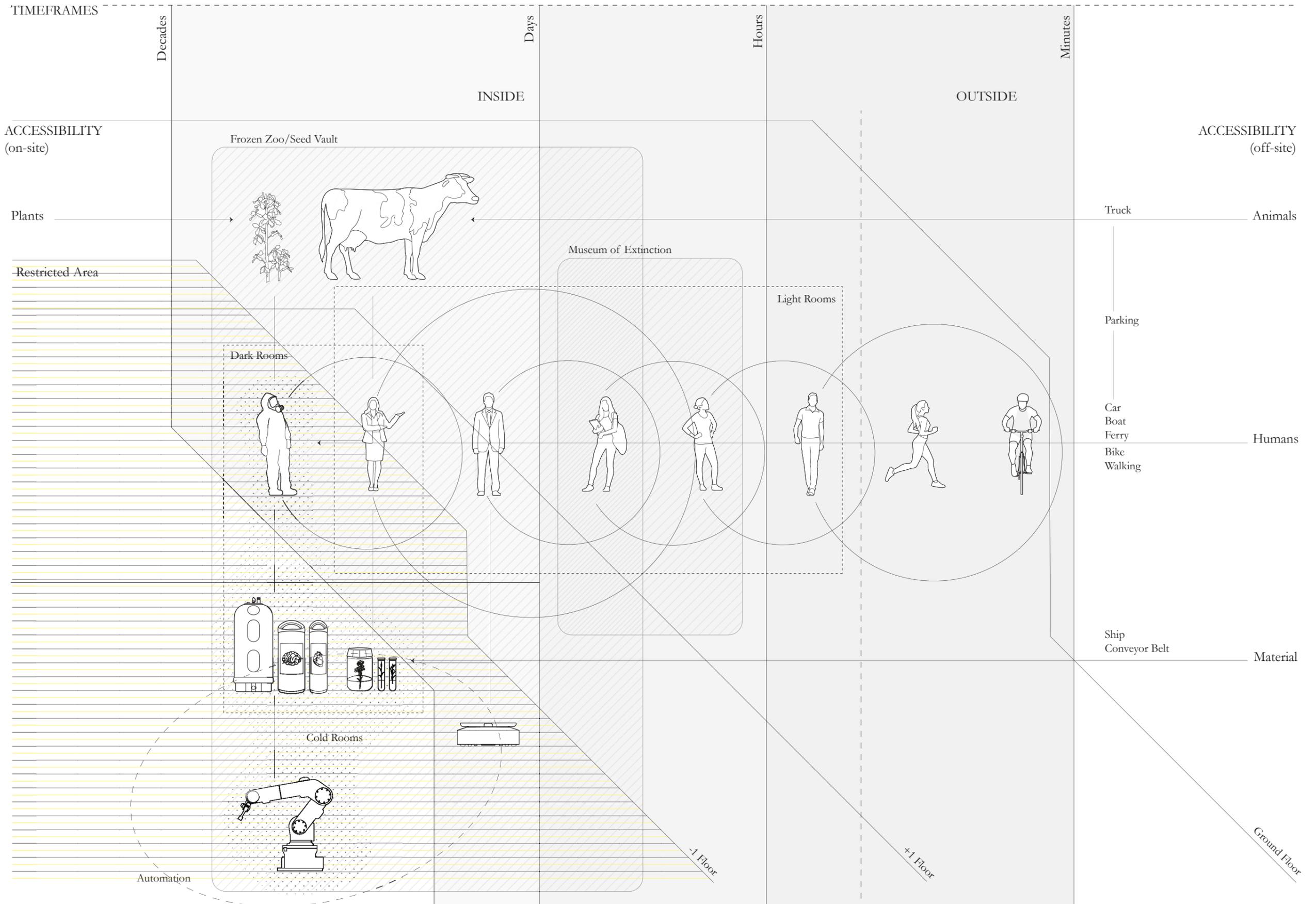


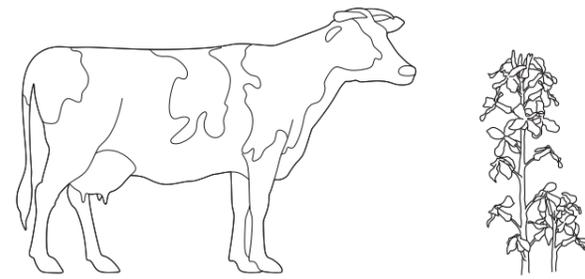
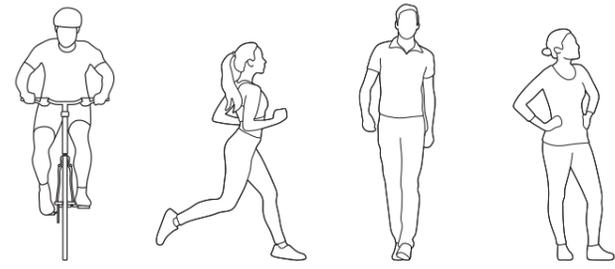
Privacy

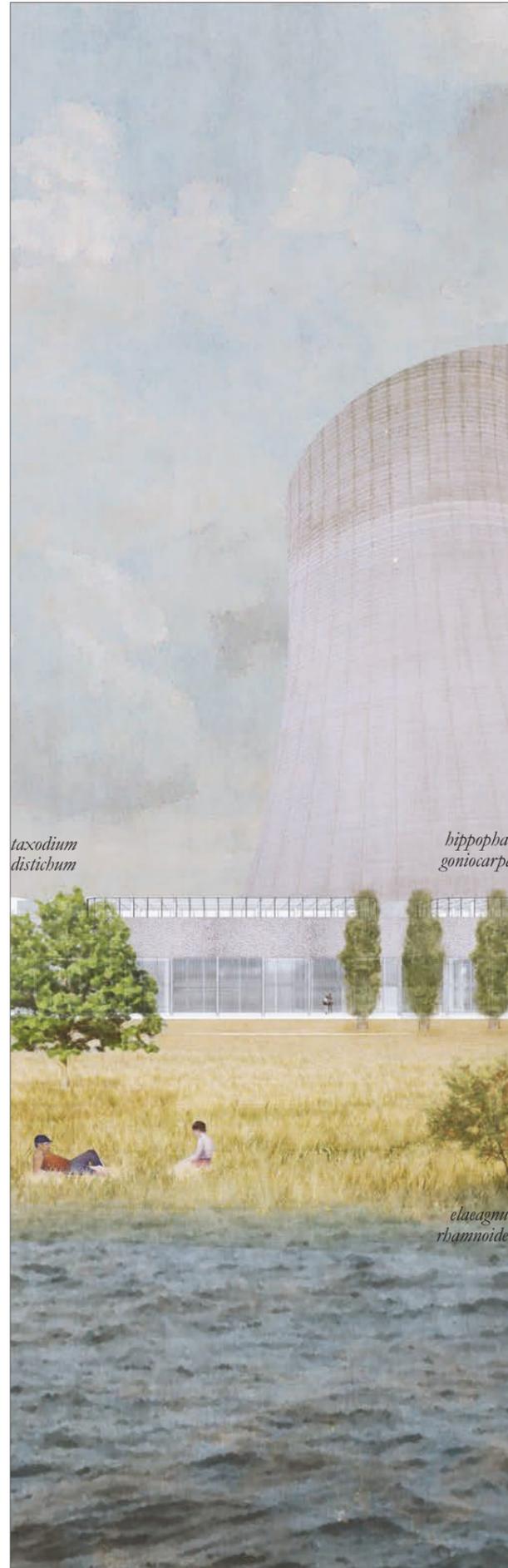
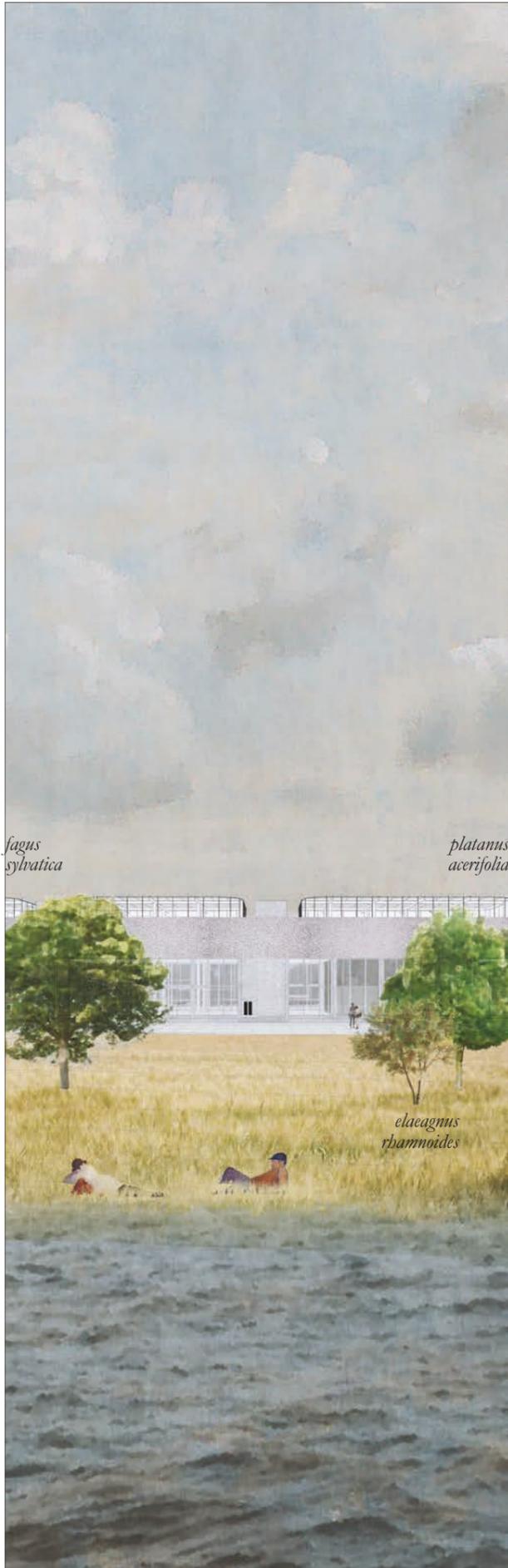


Need of Natural Lighting

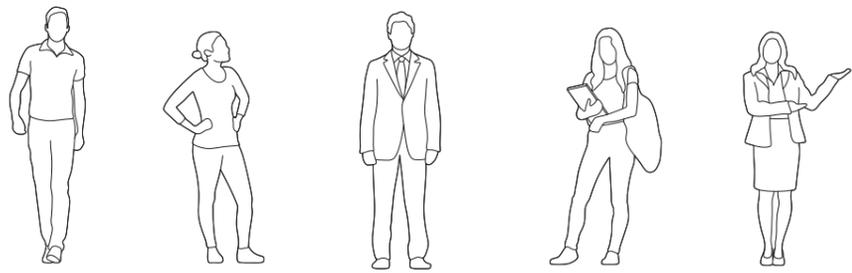
Design Criteria and Complexity



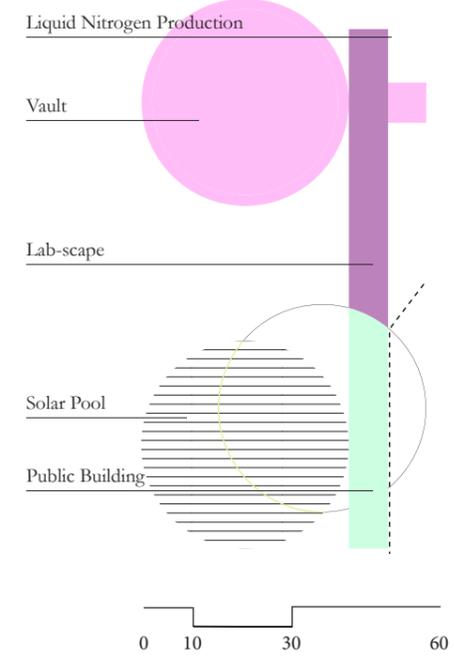
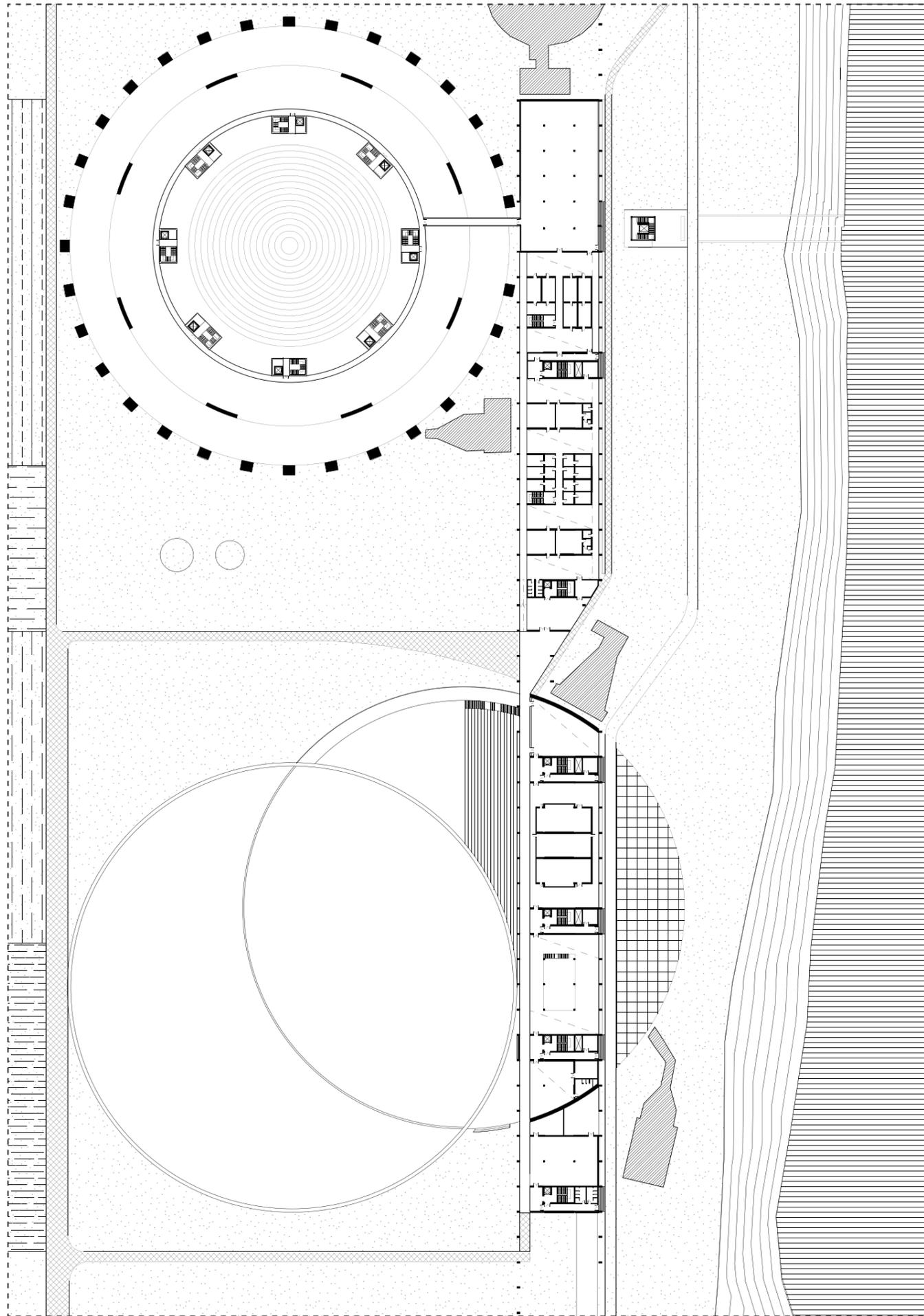








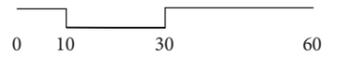
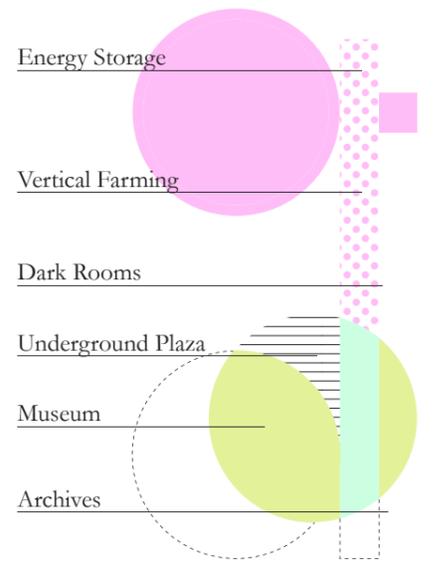
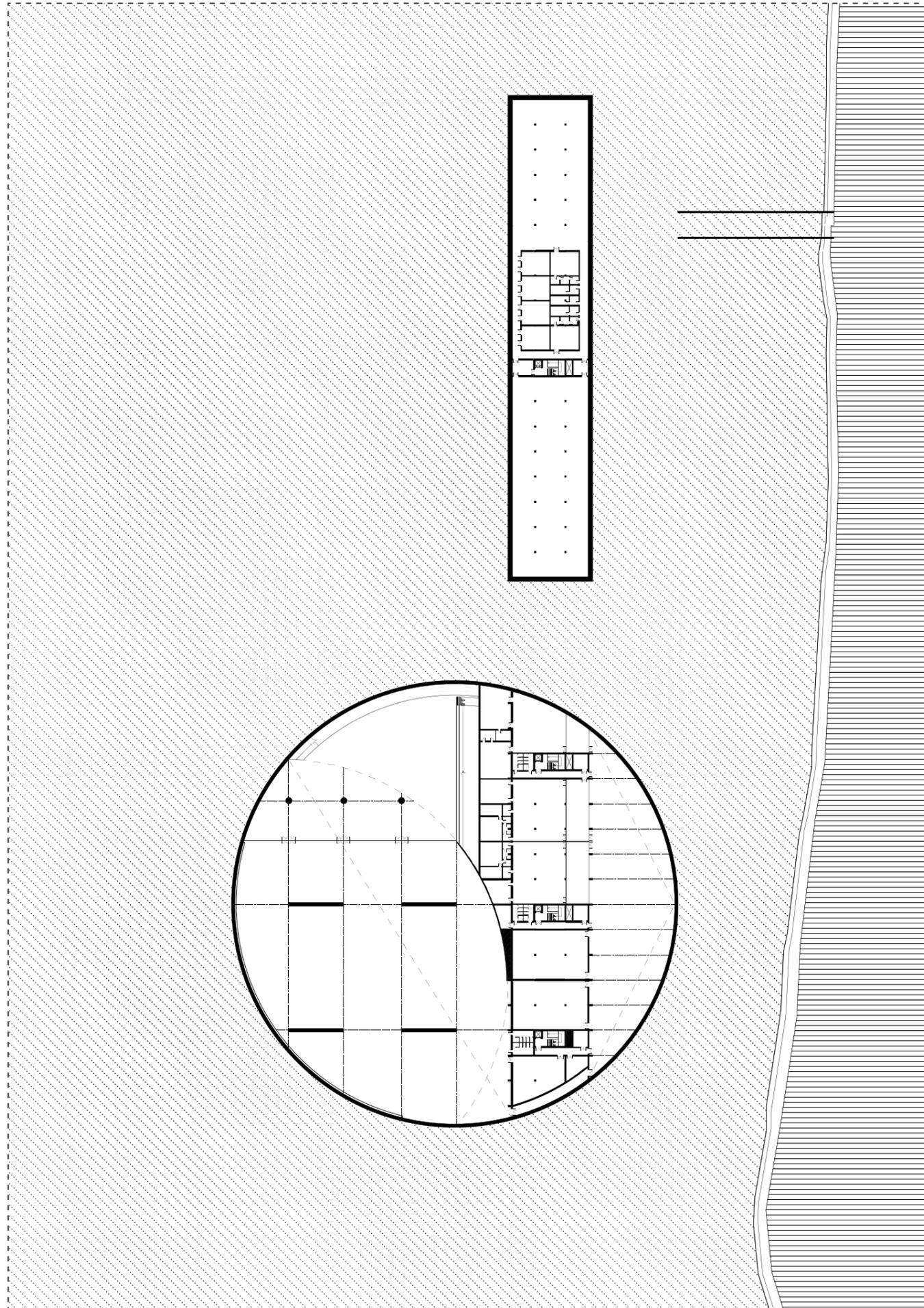




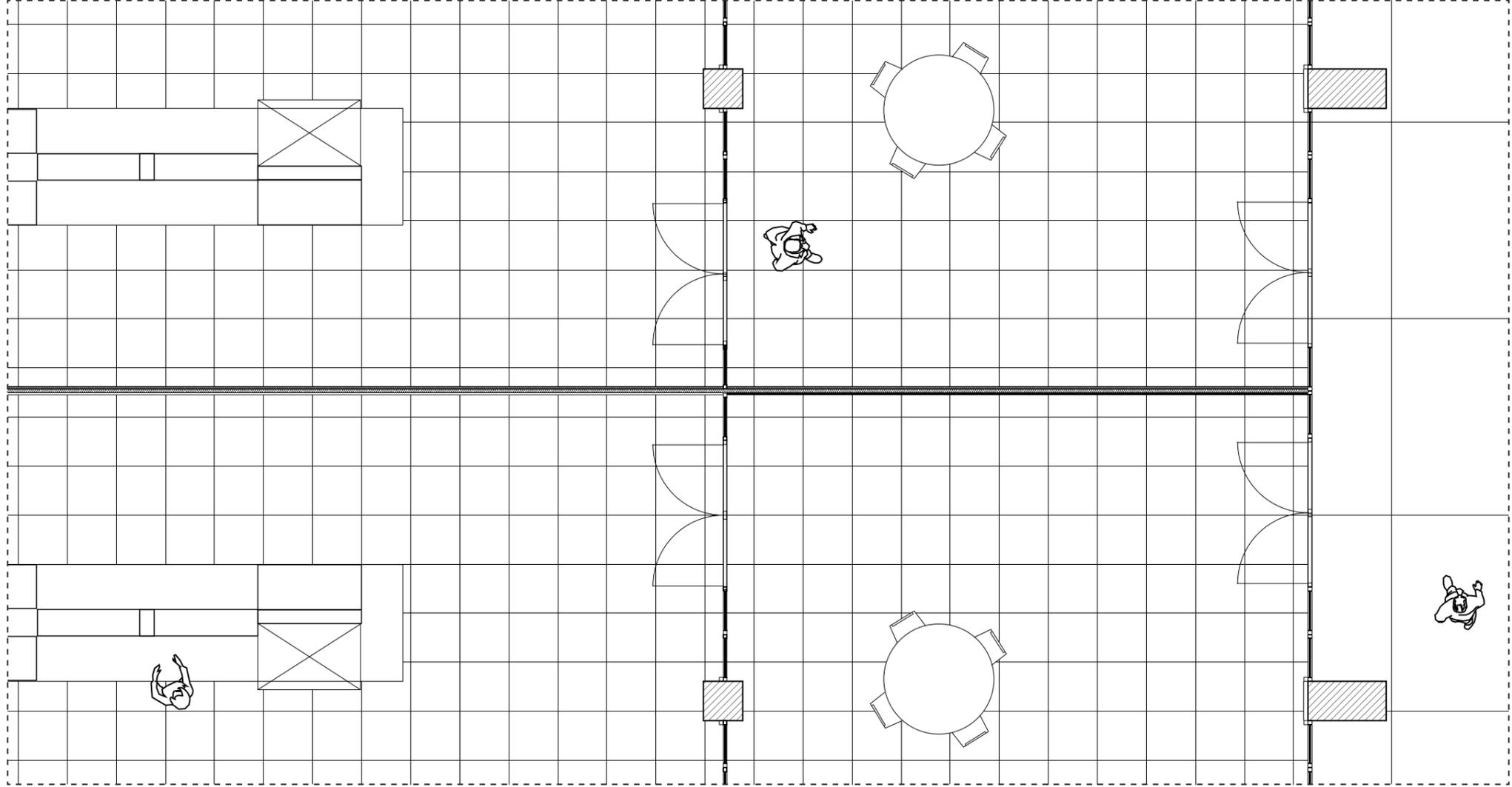


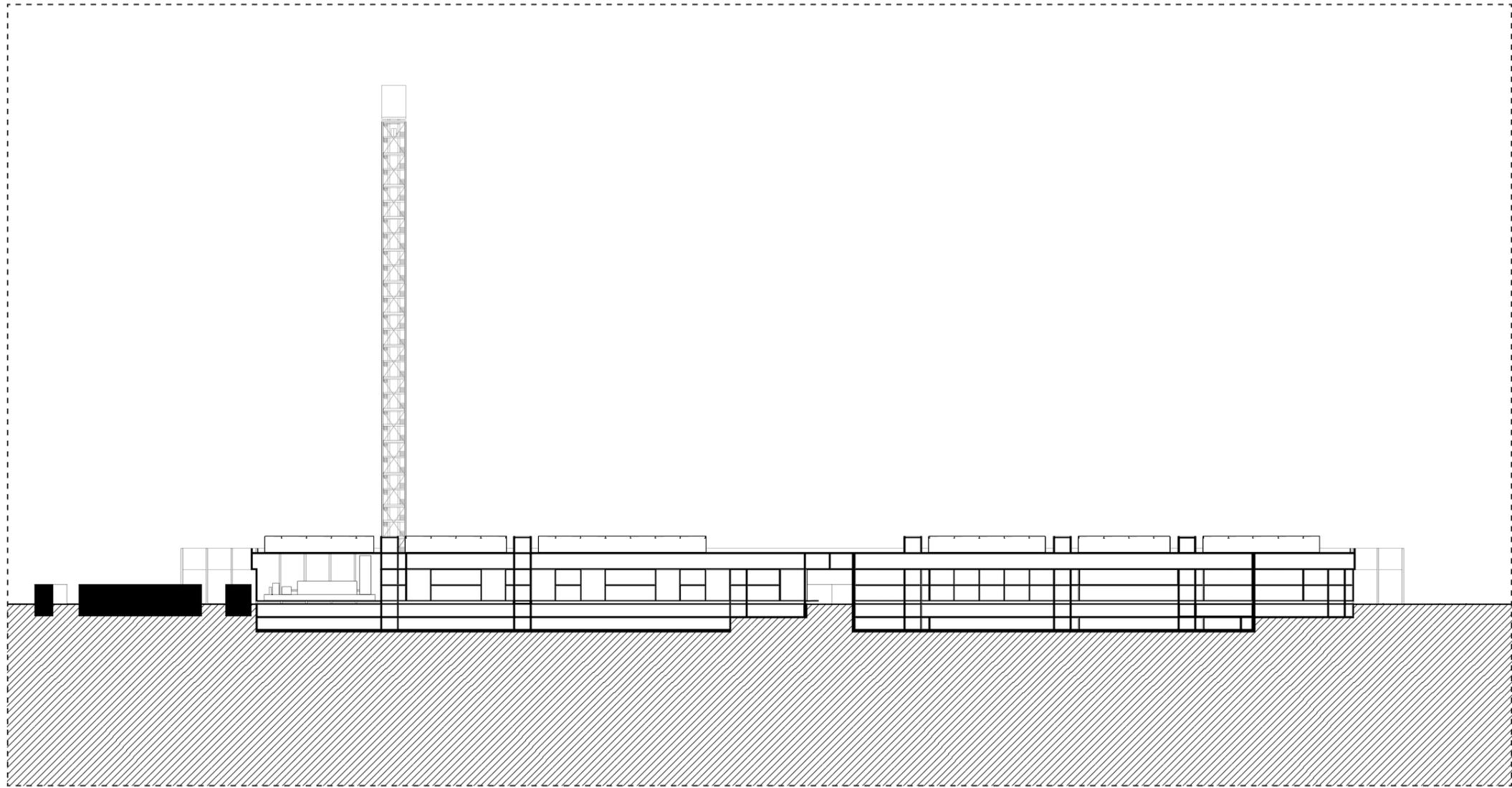
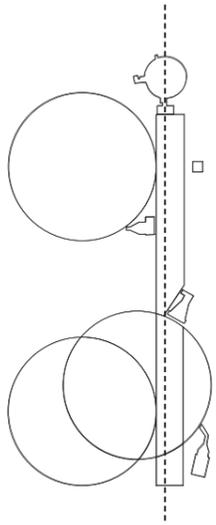


-2 Floor (-7 m)





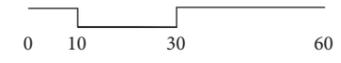
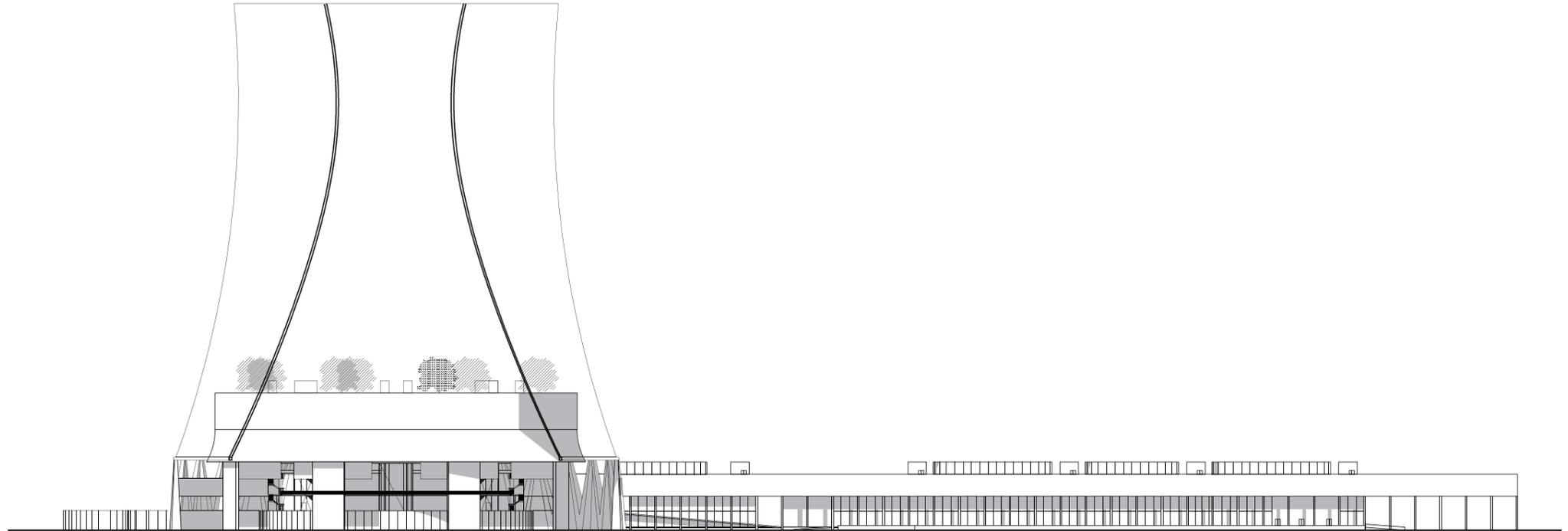
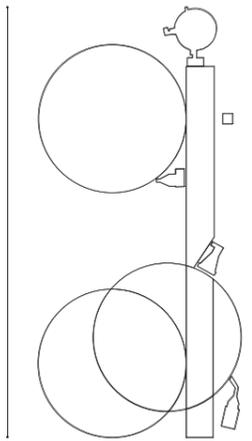


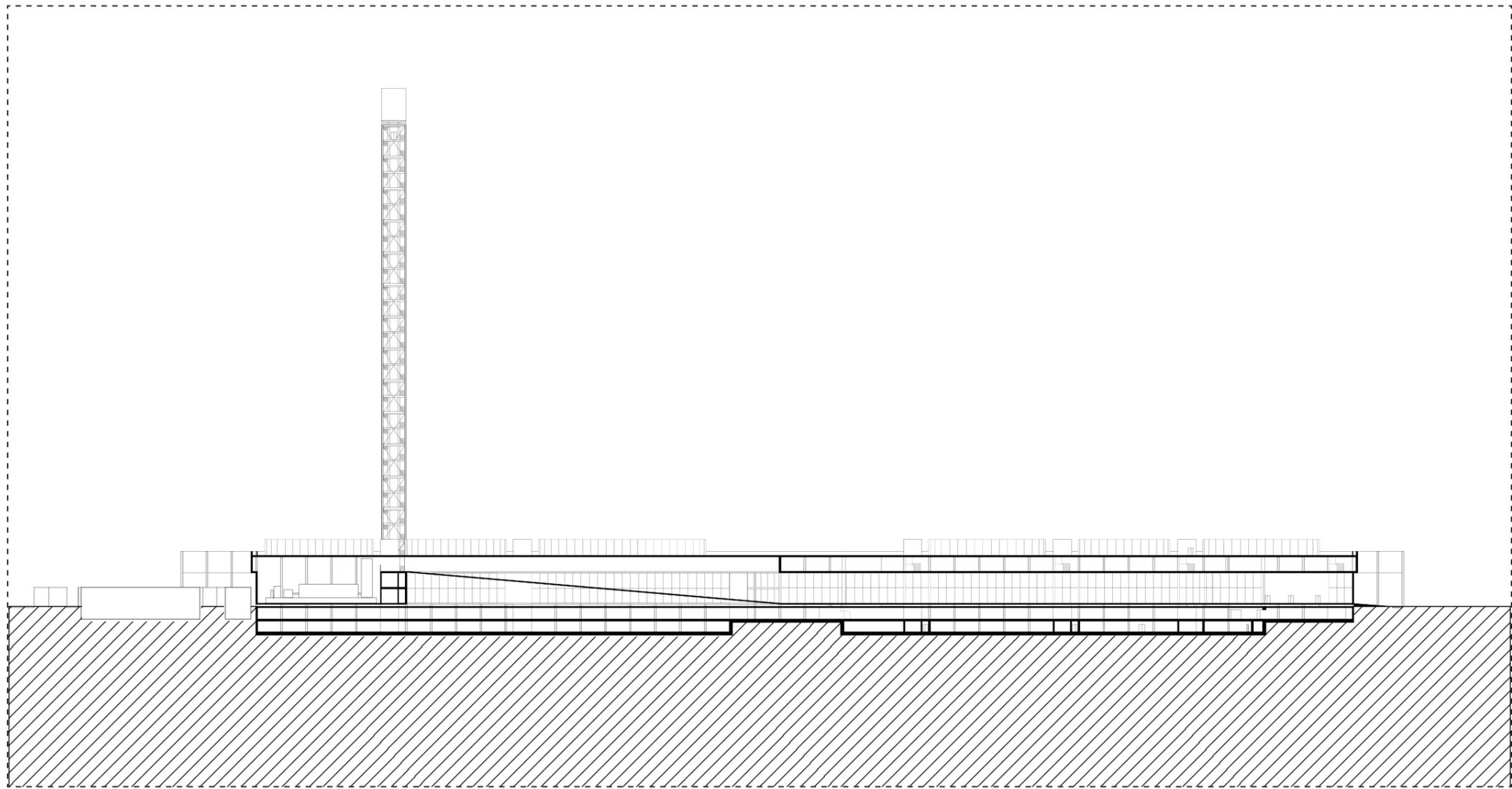
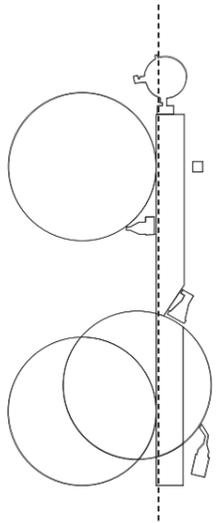


0 10 30 60





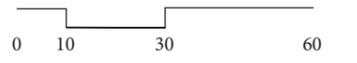
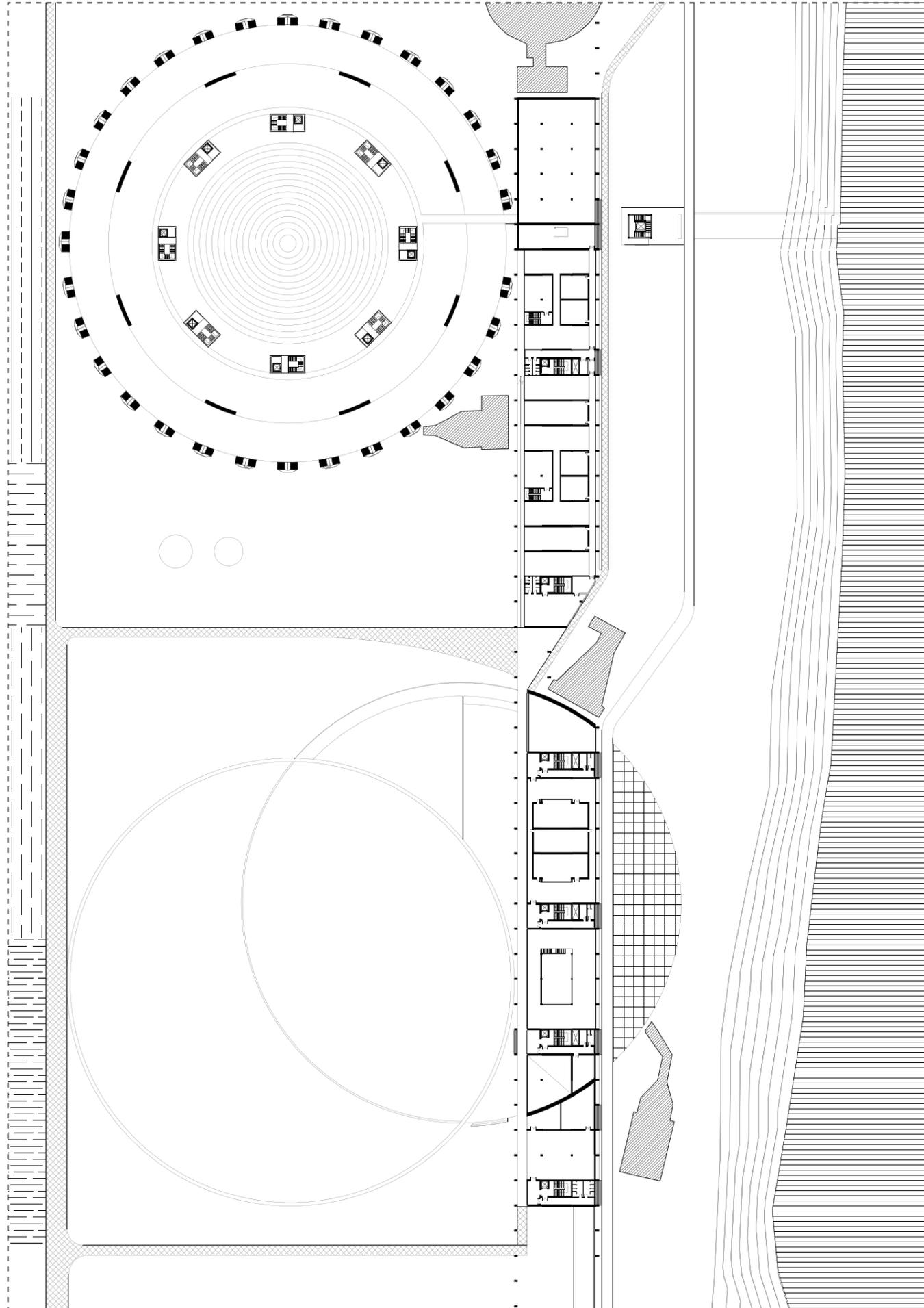


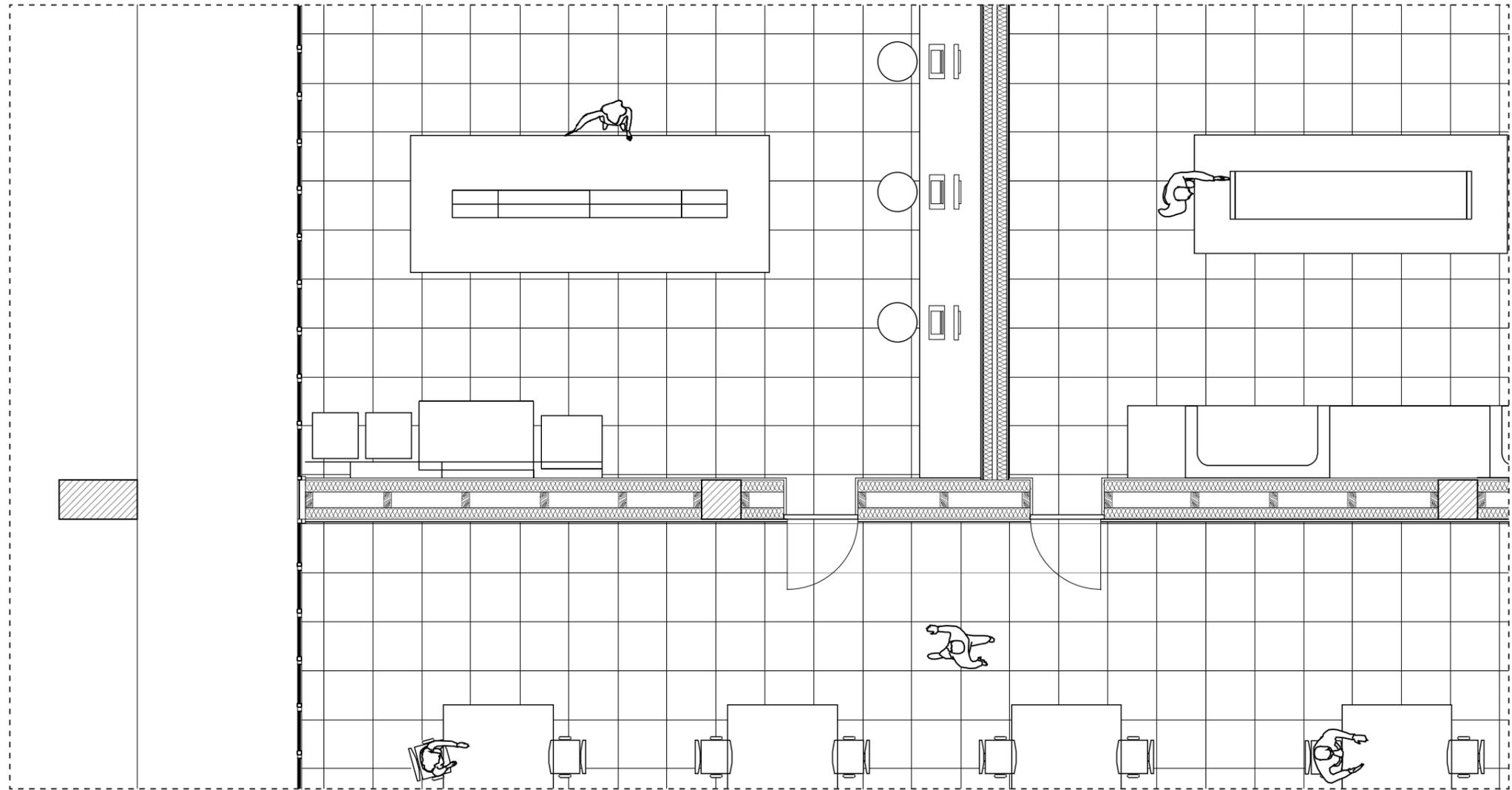


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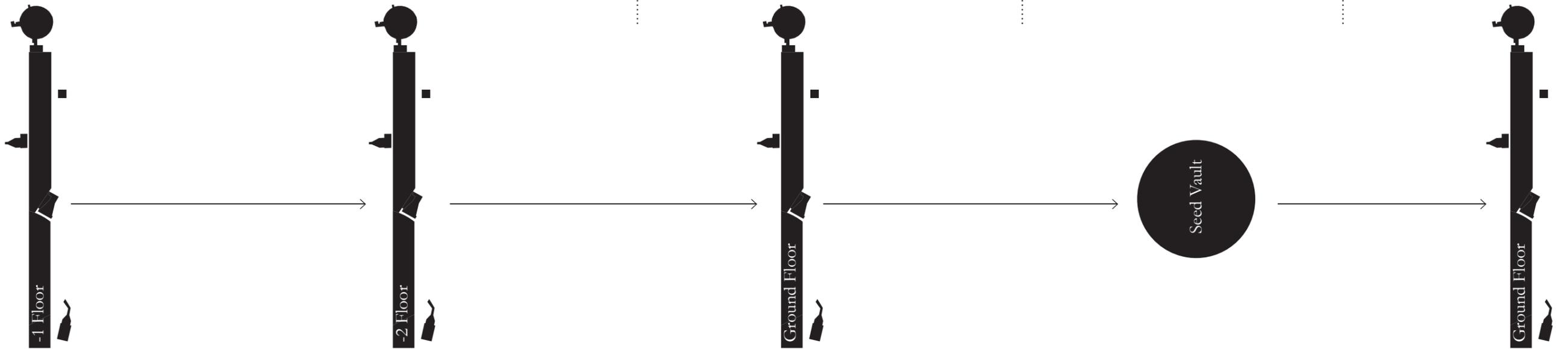
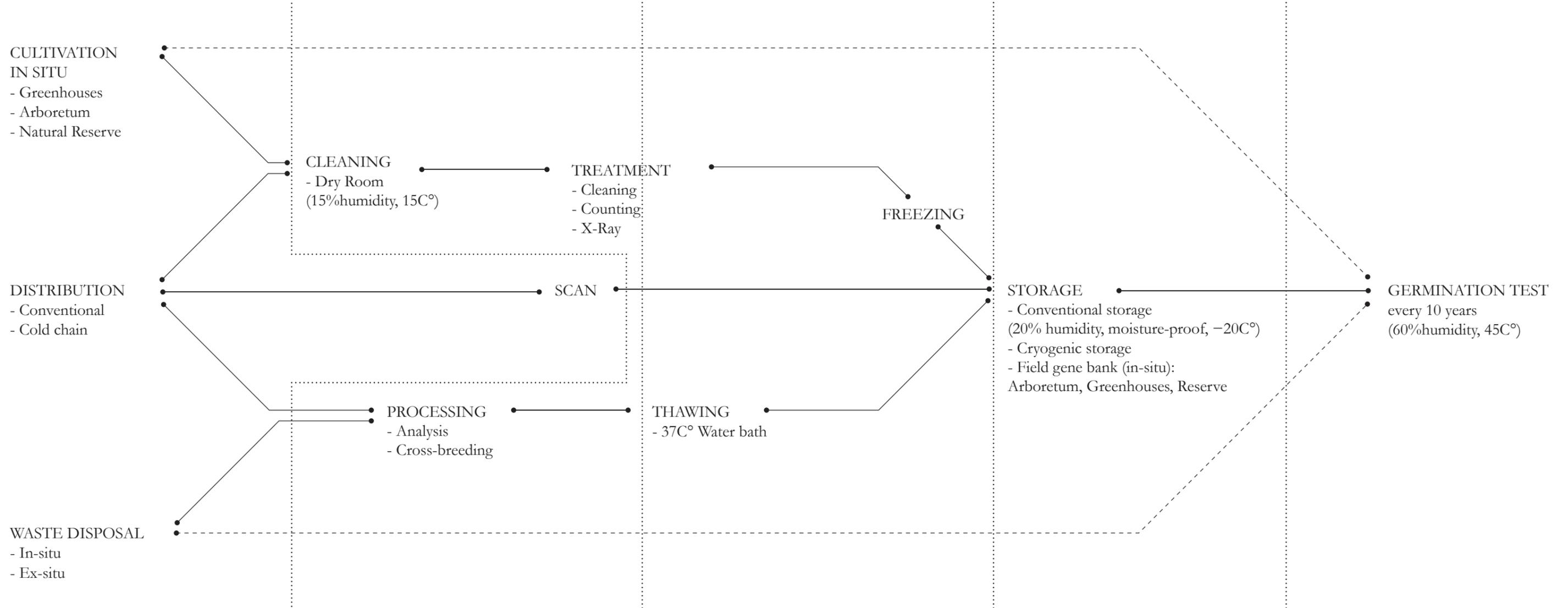


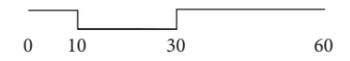
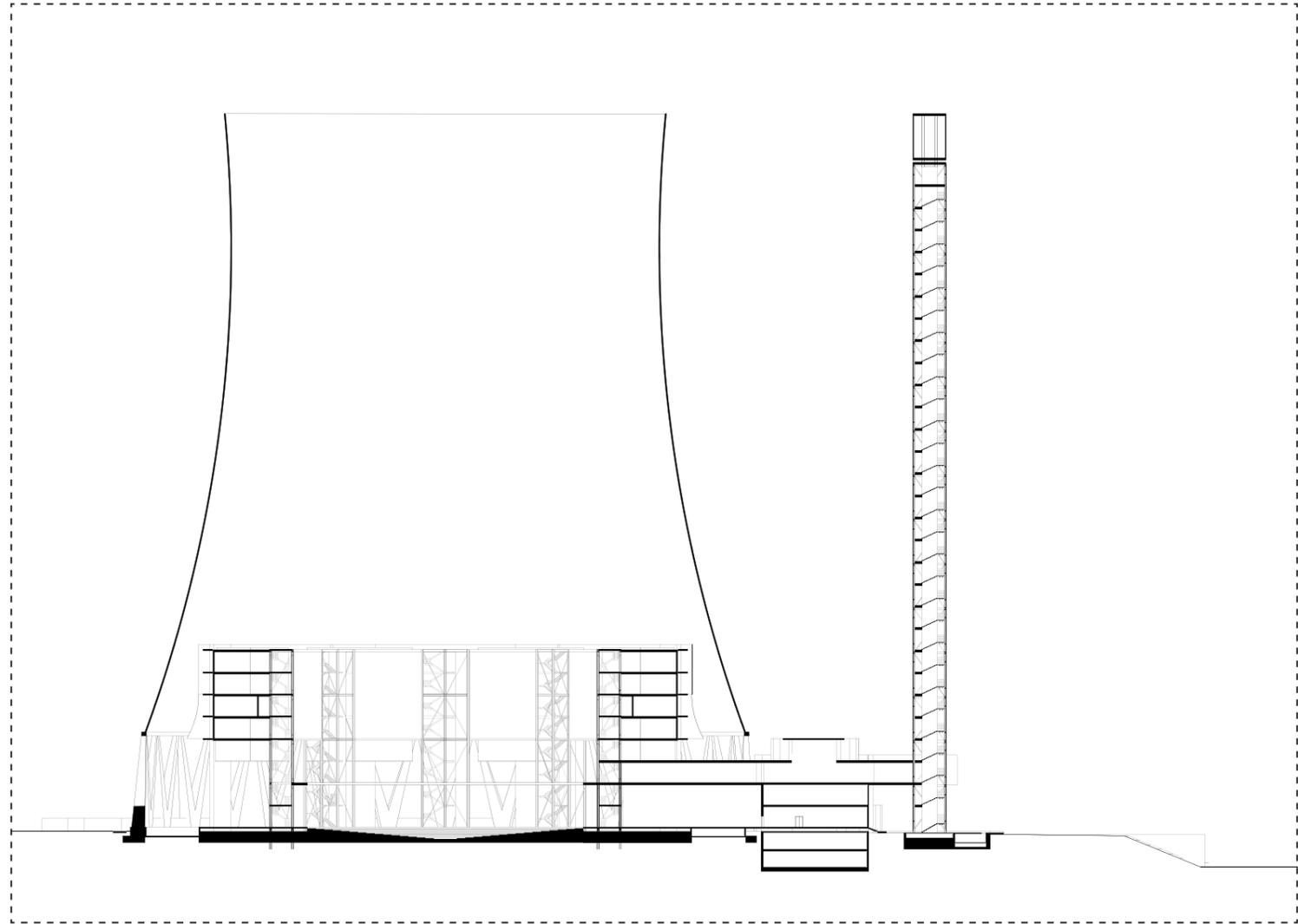
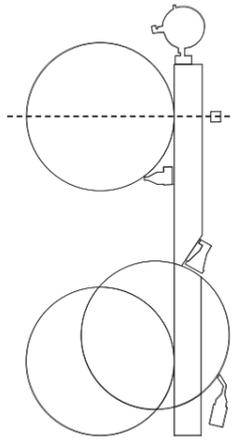
First Floor (+5 m)





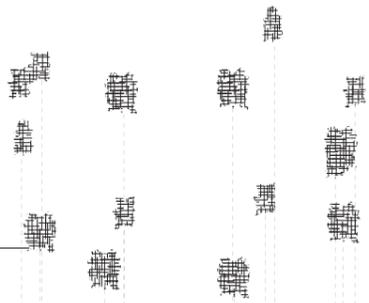
Seed Vault/Frozen Zoo Process



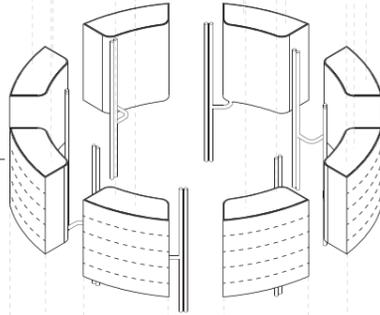




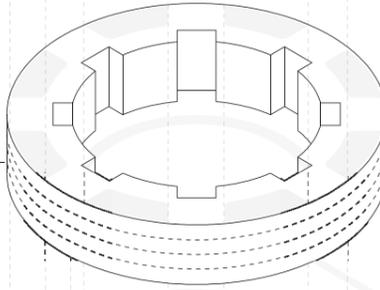
Plants for shadow environments



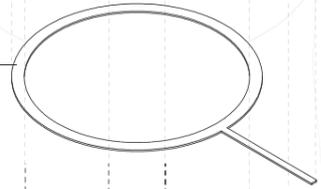
Conservation chambers



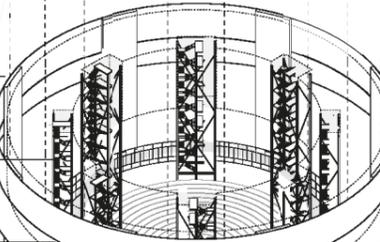
Circulation and work spaces



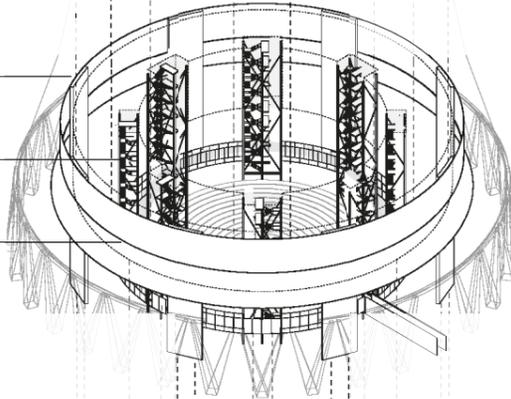
Circular balcony



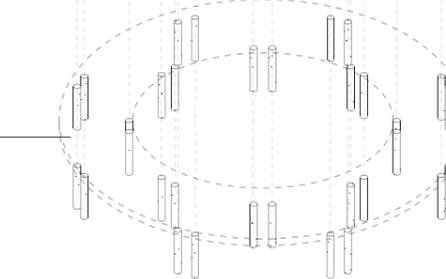
Concrete shear walls



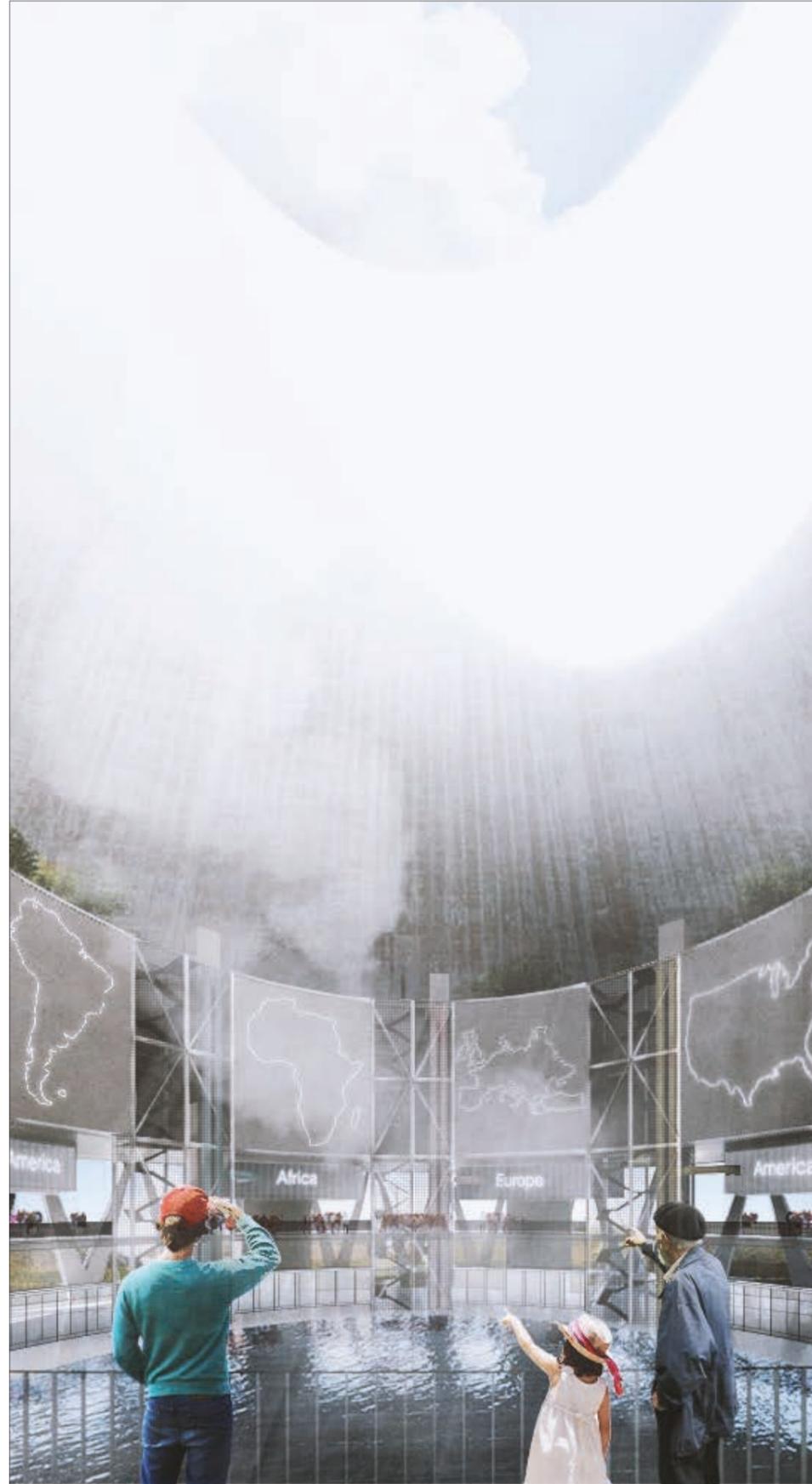
Reinforced tridimensional steel trusses



Steel mesh "fabric" facade



Mixed foundation: concrete bed on piles



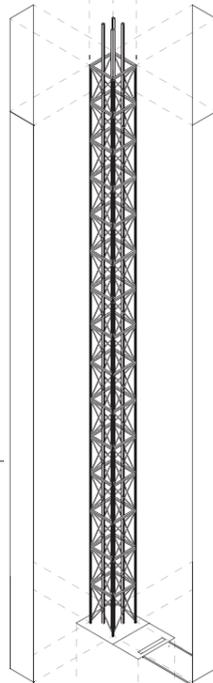
Concrete box filled with debris and coated with marble plates



Steel staircase



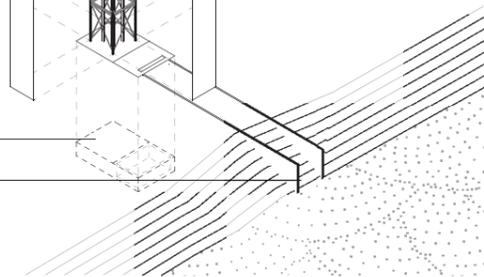
Steel mesh facade



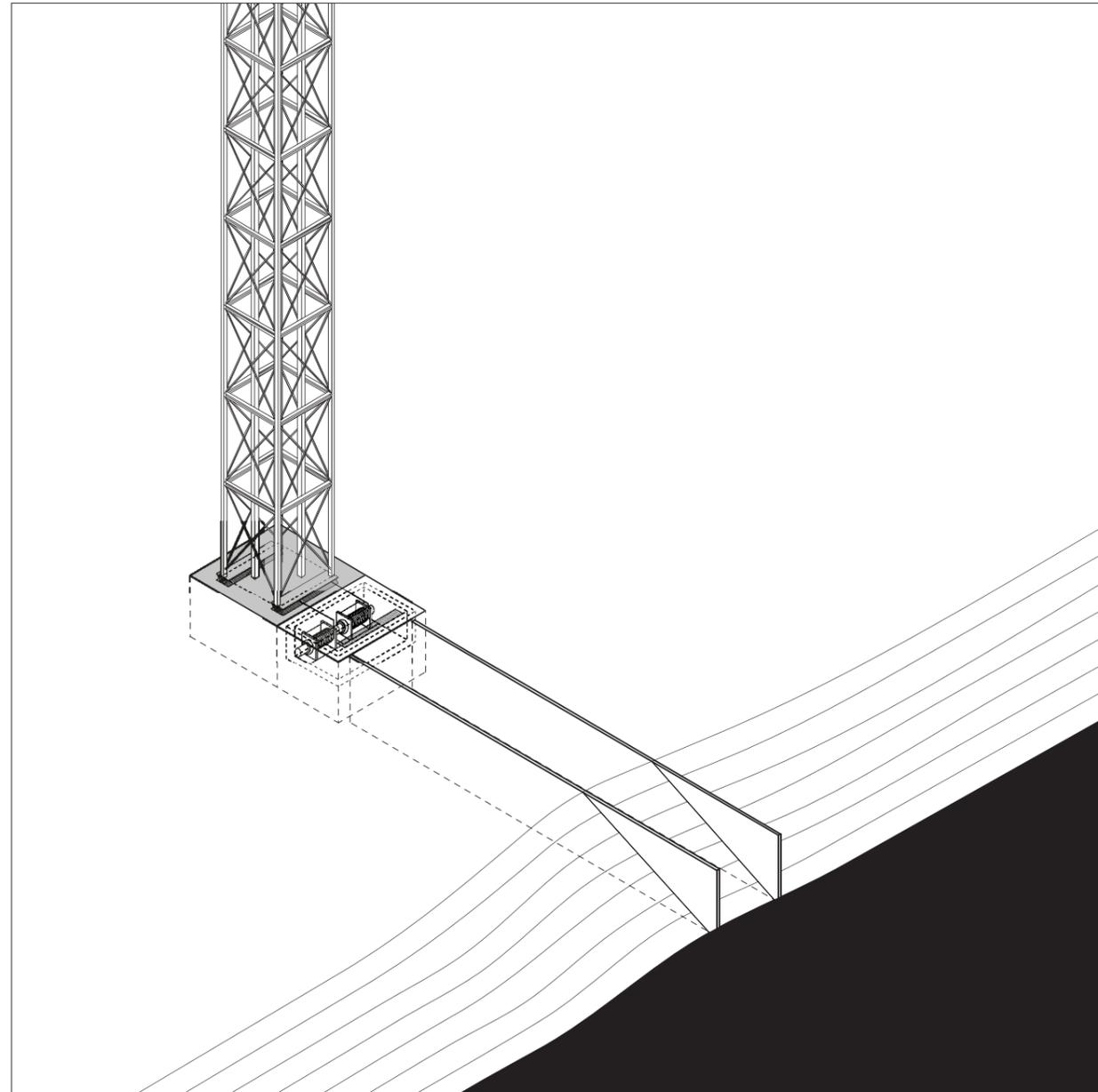
Concrete box foundation with embedded tank

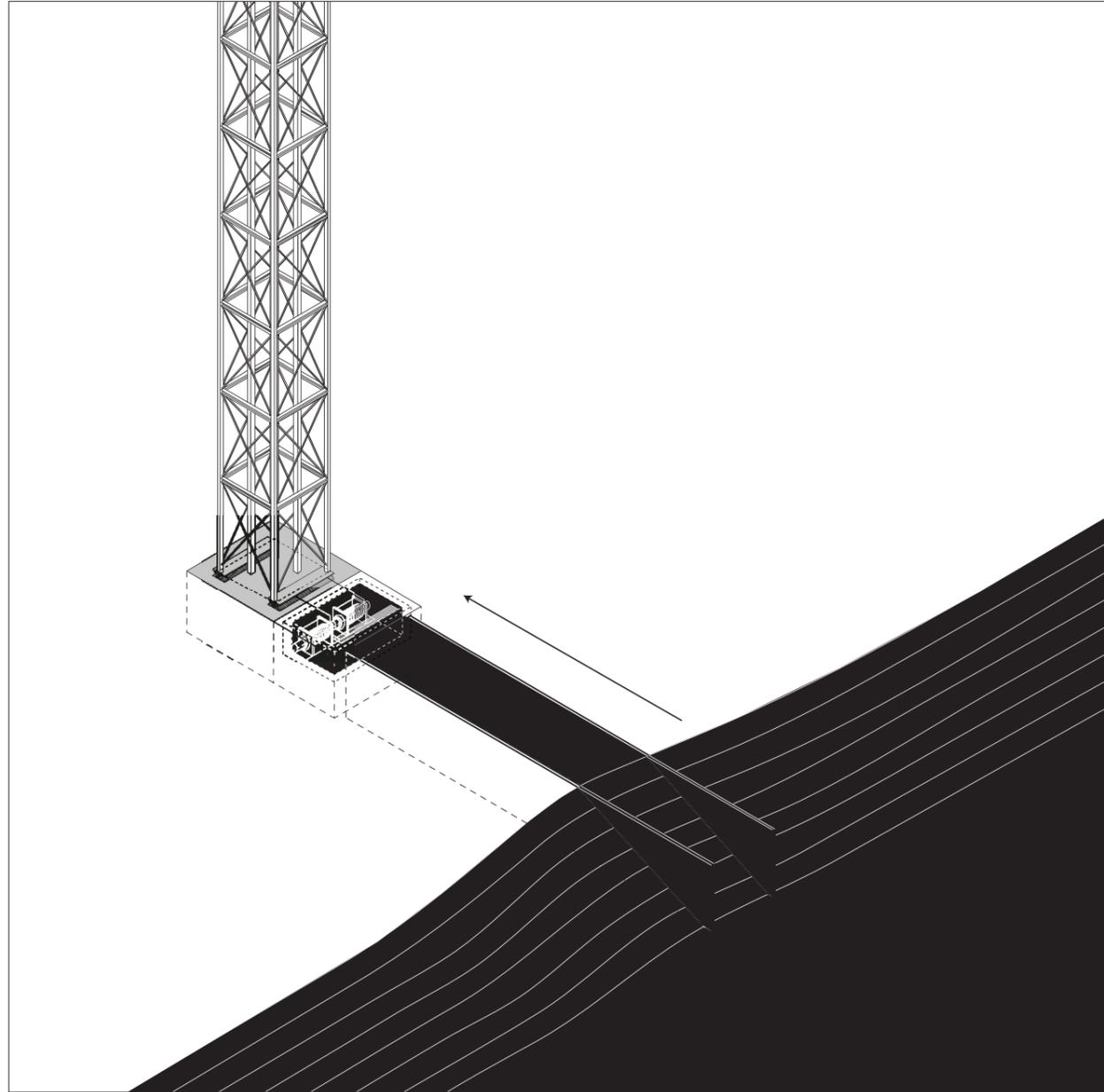


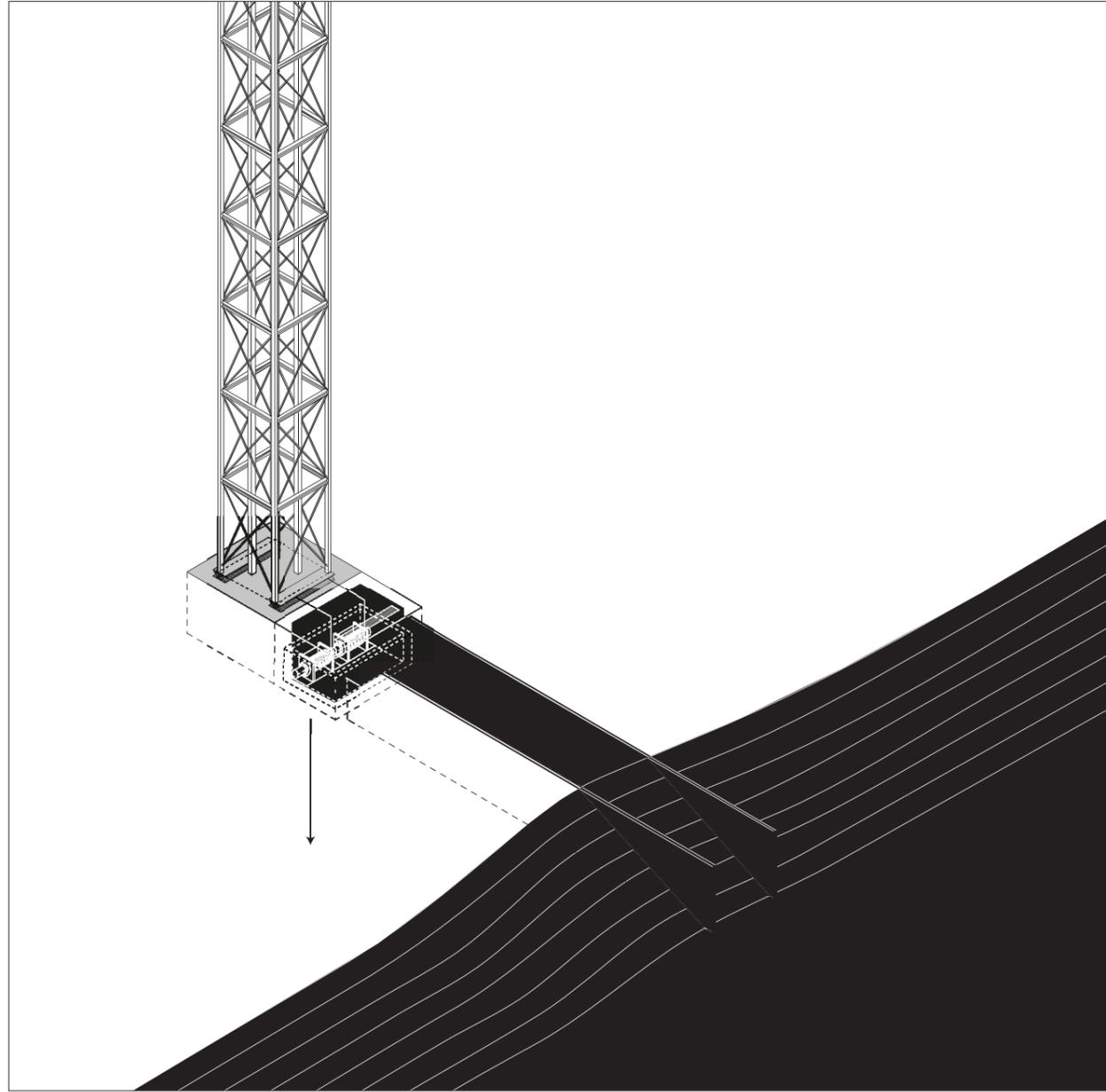
Wall for sea-level rise warning

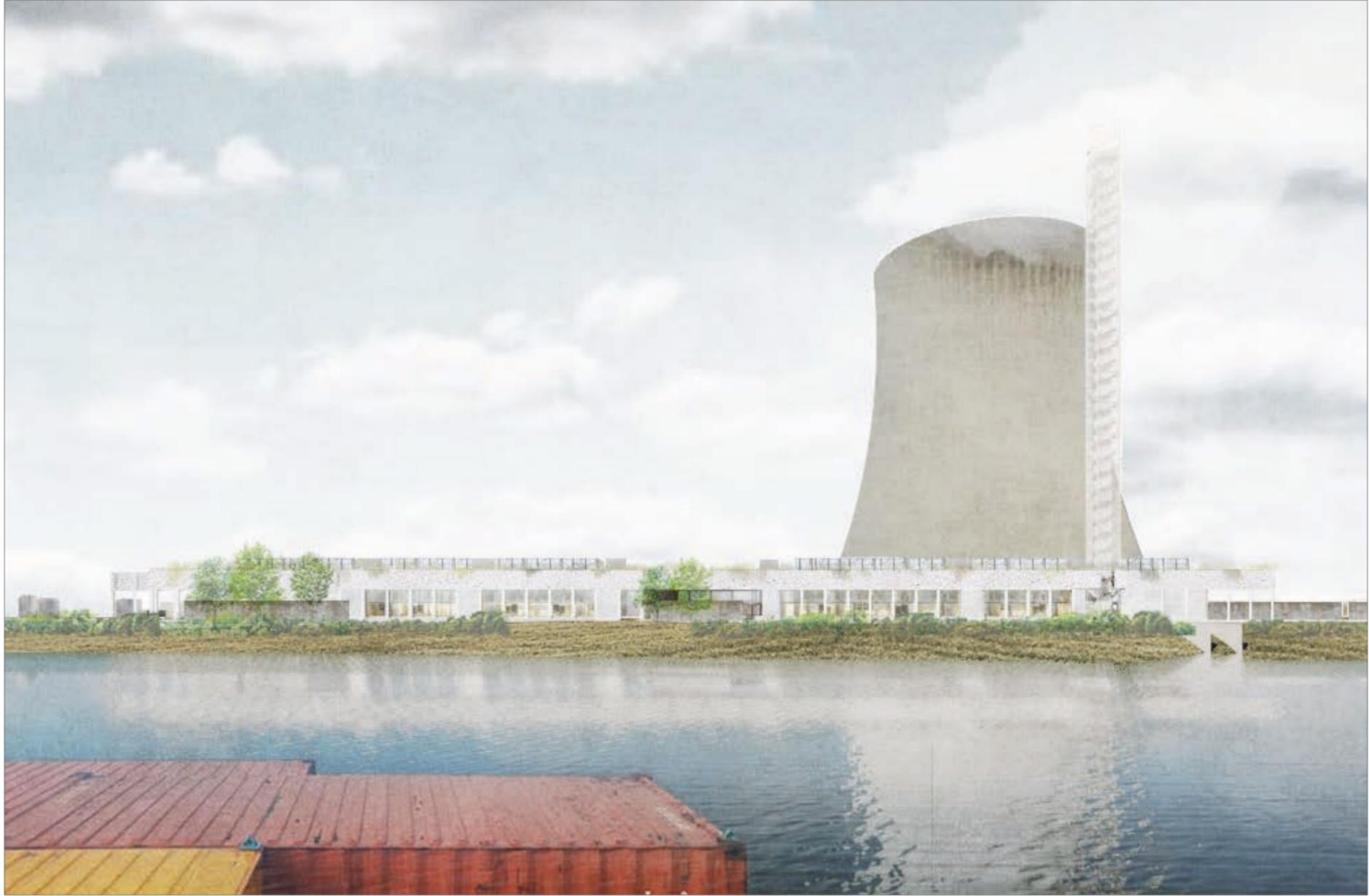


Mechanism for Destruction











Future Relics
Conclusions



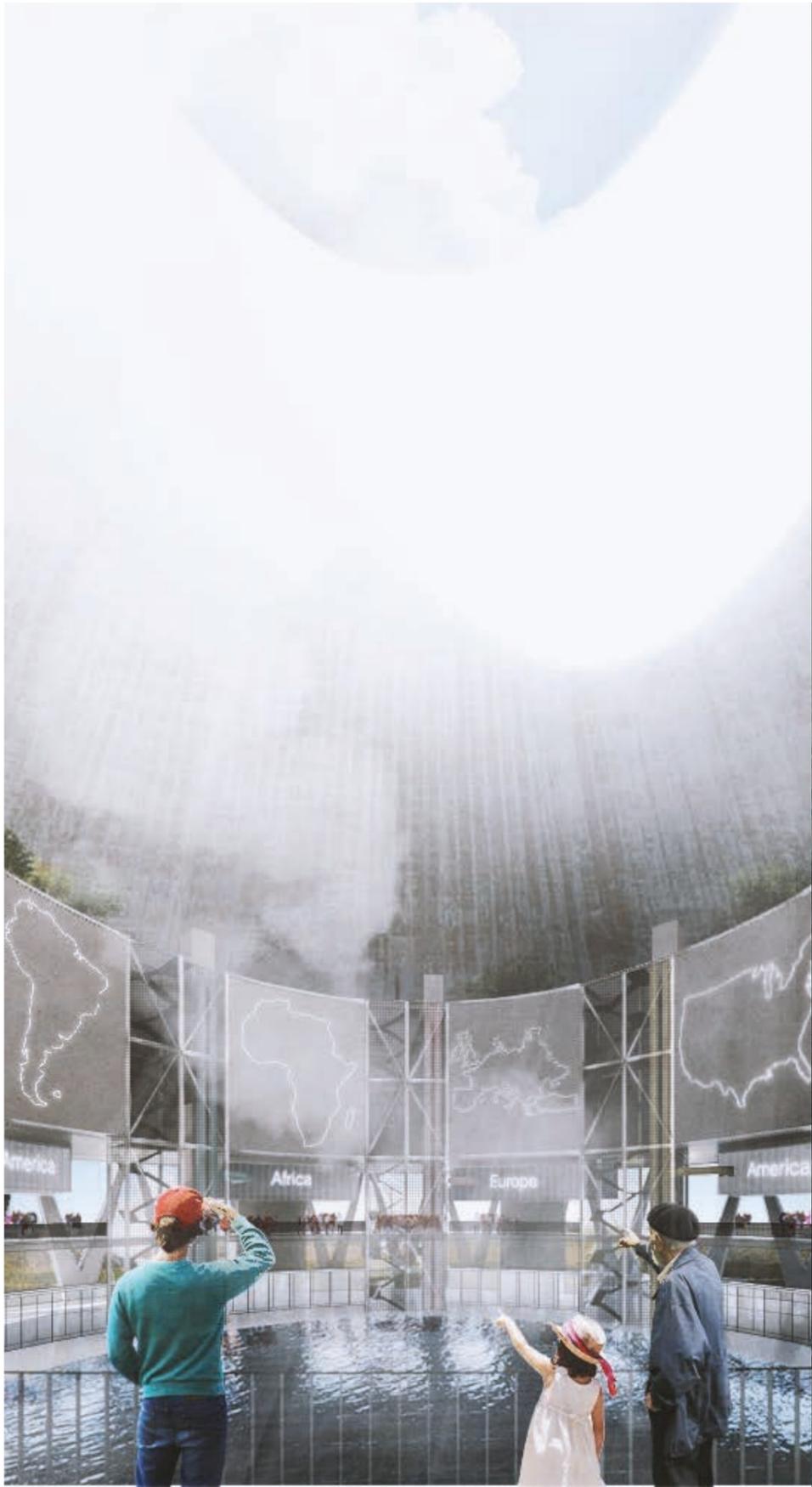
*“These objects create breaks in time and they expand and collapse it
by bringing us outside of our current moment.”*

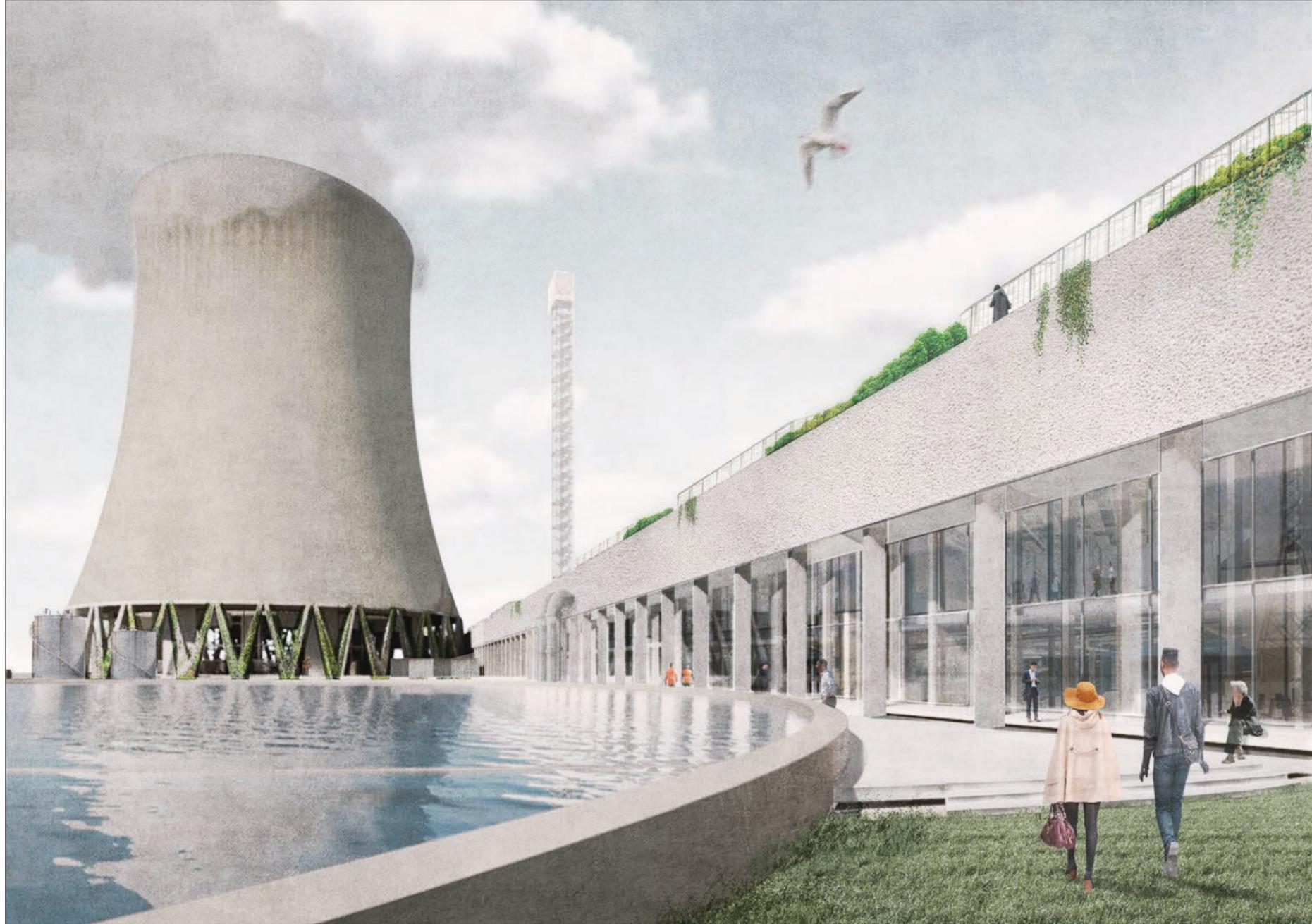
“A speculative inquiry into the future fate of humanity”

(Daniel Arsham)











North Sea: Landscapes of Coexistence

Transitional Territories Studio 2019-2020

P4 Presentation

The End

Student:

Luca Parlangei

Tutors:

Taneha Kuzniecowa Bacchin

Kaveh Dabiri

Sjap Holst

Francesca Rizzetto