

RESEARCH		DESIGN	
01	INTRODUCTION	04	CONCEPT
	Fascination Geography	05	LANDSCAPE Outward-in
02	SITE Societe De La Raffinerie de Dunkerque	06	ARCHITECTURE Inward-out
03	THEORY Health	07	TECHNOLOGY
	Bioremediation Gardens	08	CONCLUSION

ECOLOGICAL

SOCIO-CULTURAL

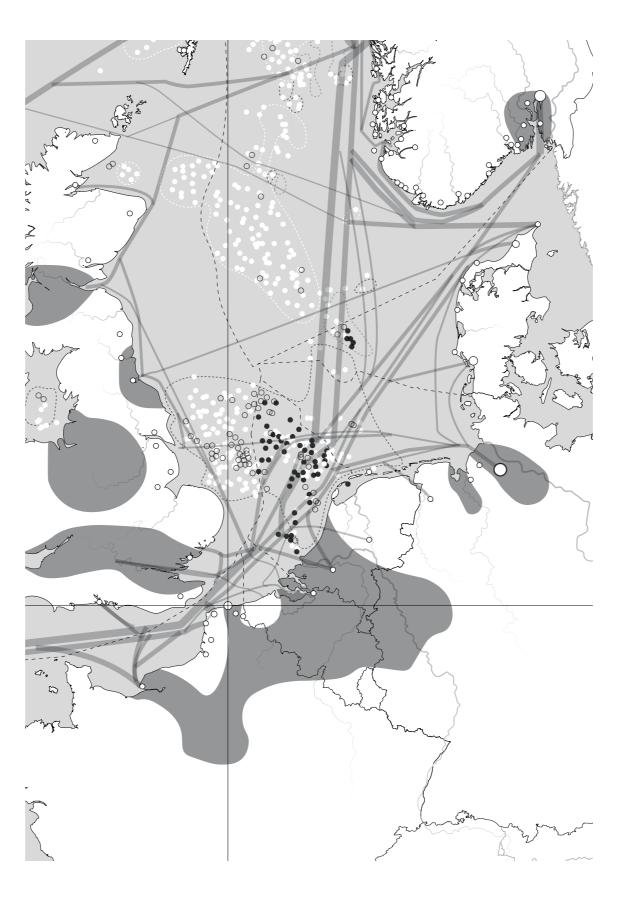
HUMAN

Territory

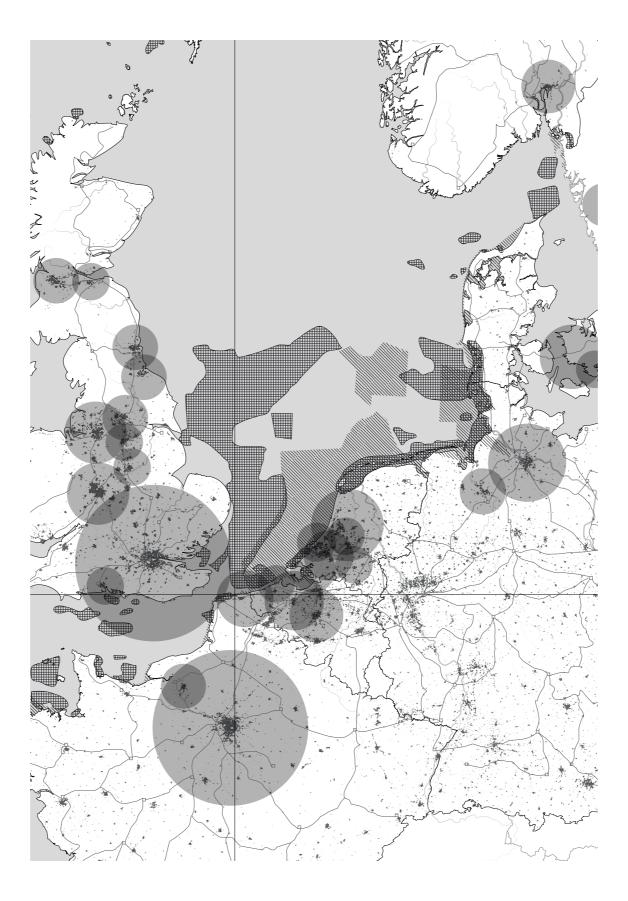
Urban/Landscape

Body & Mind

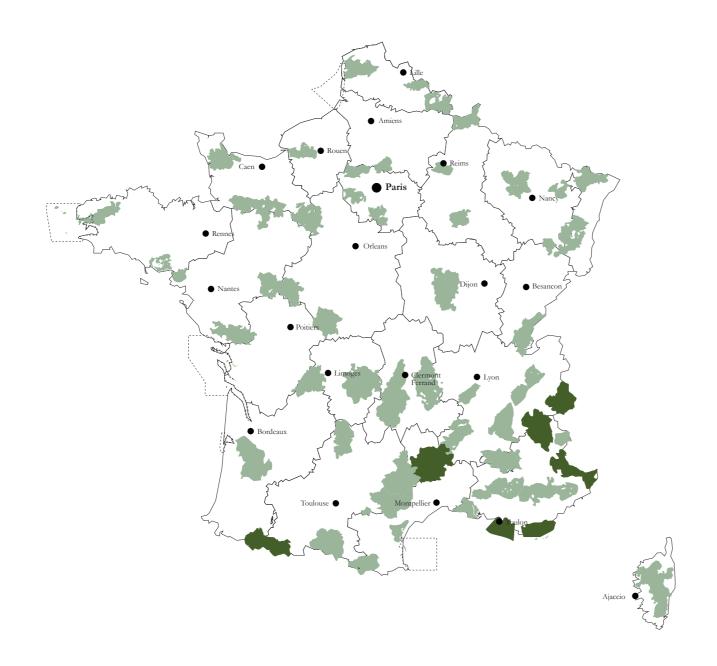
Fascination: Health

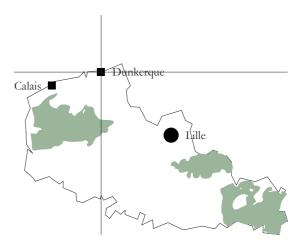


Territorial Analysis *Economy*



Territorial Analysis *Ecology*





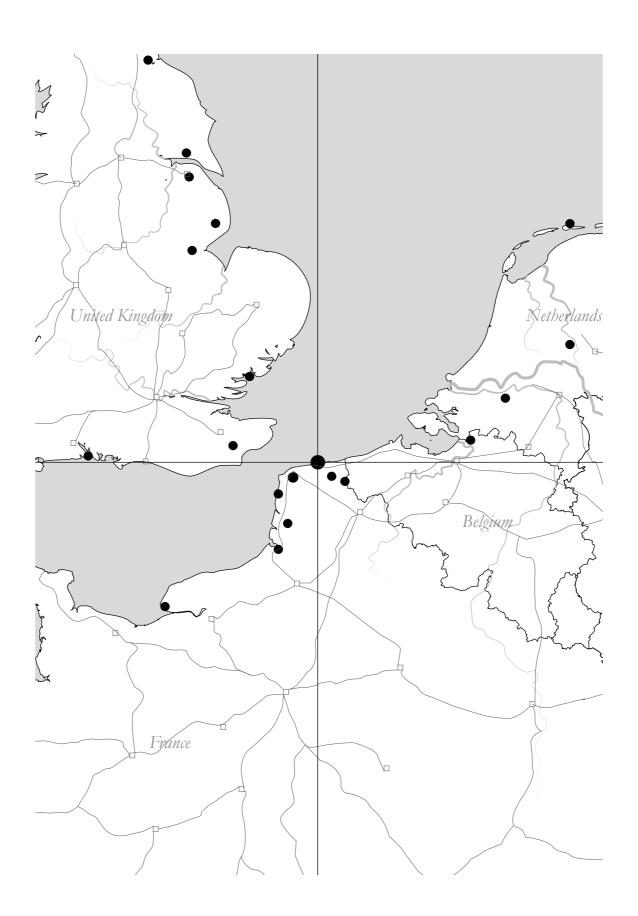
Green Infrastructure in France

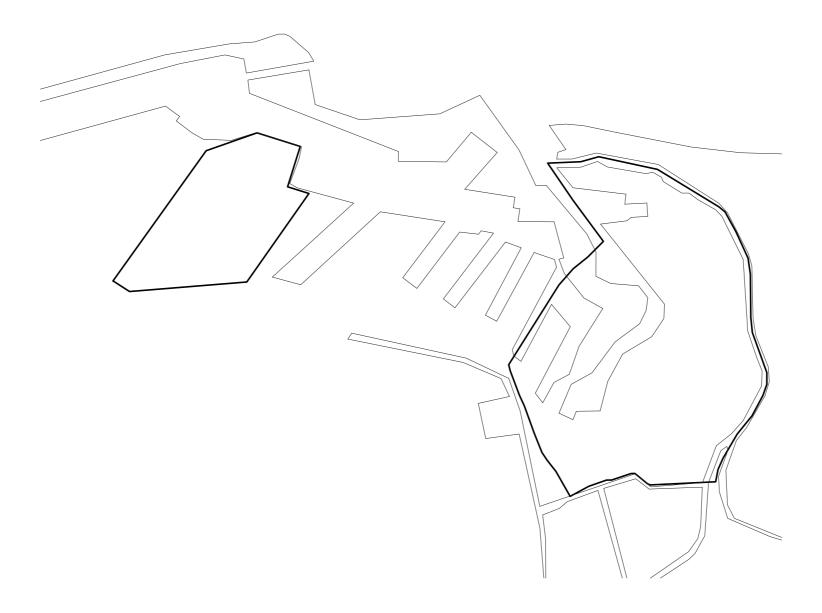
RESEARCH QUESTION

What kind of green infrastructure intervention can foster remediation and decontamination of the North Sea ecosystem of coastal Dunkerque while providing a wider economical benefit?

02 SITE

Societe De La Raffinerie de Dunkerque







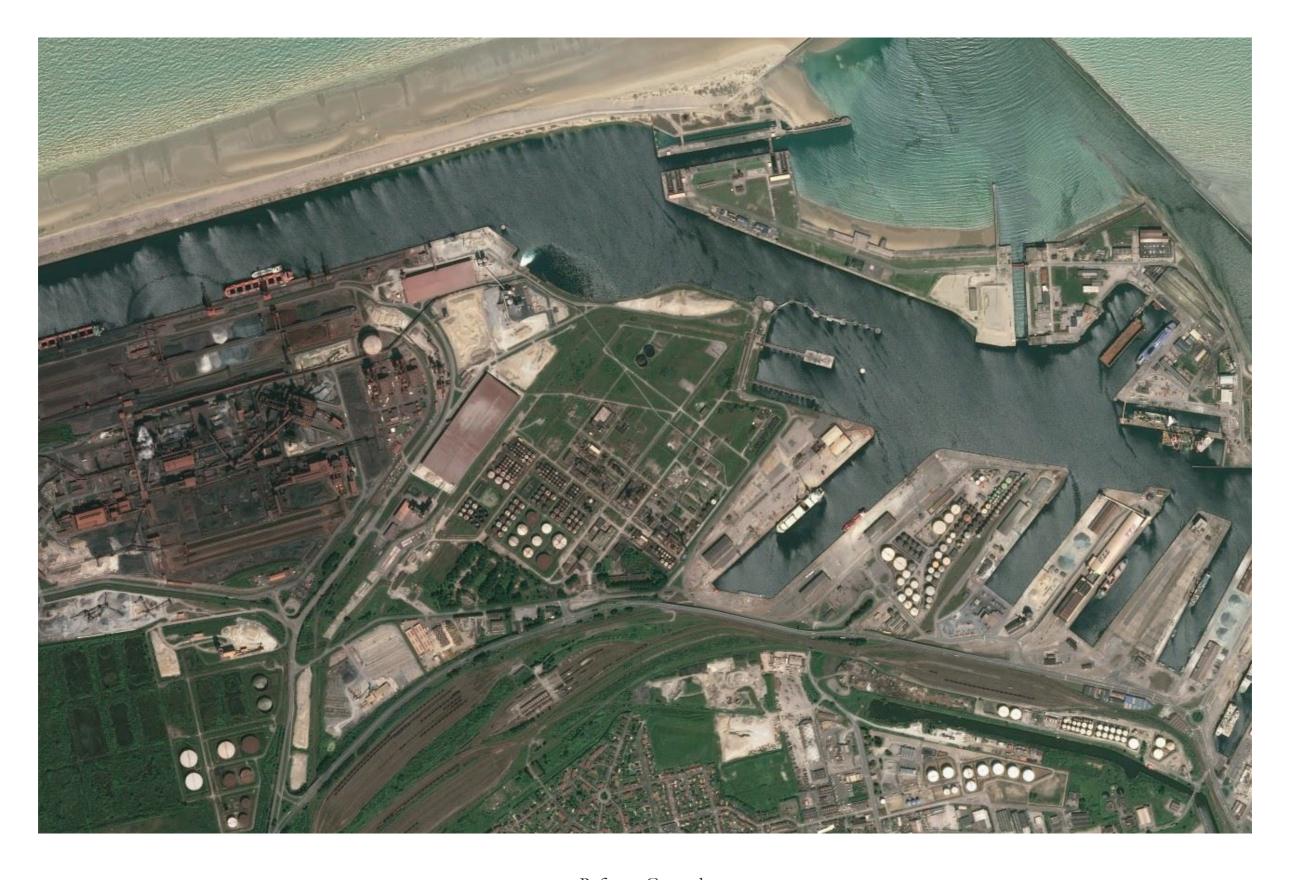




Marginalised foreshore

Abandoned railway line

Lack of green infrastructure



Refinery Grounds





RESEARCH QUESTION

- 1. What kind of architectural intervention can 'bridge' the invisible boundary between land and water on one hand, and between the city and the port on the other hand?
- 2. To what extend can the industrial leftover structures and objects on site, both habitable and inhabitable, become integrative part of the design?

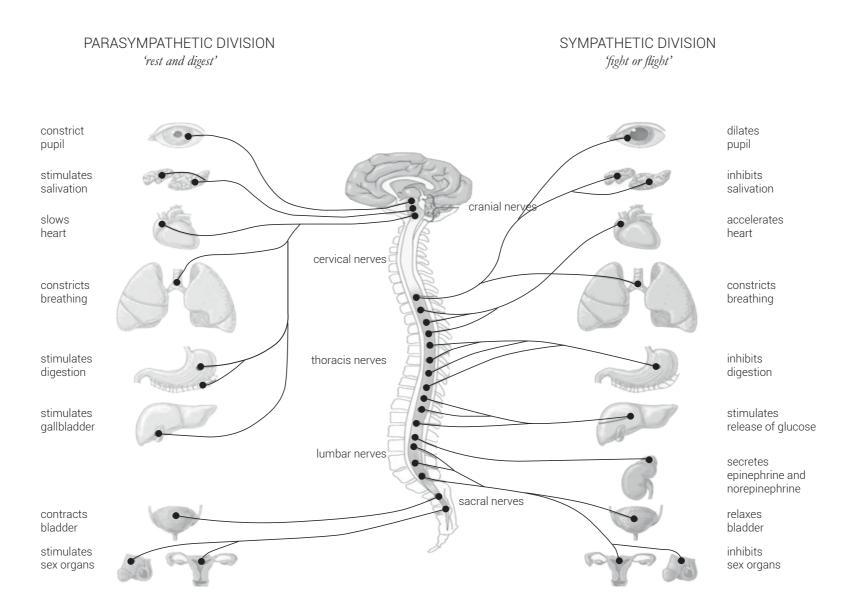
03 THEORY

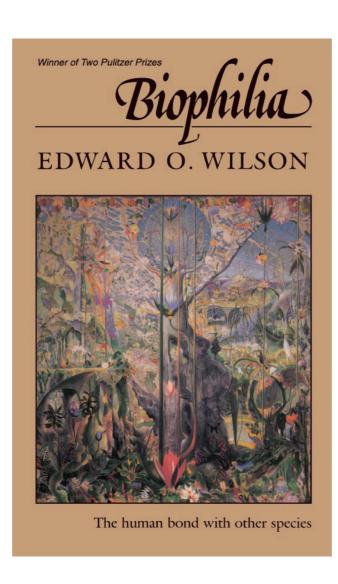
Health | Bioremediation | Gardens



Health

Shinrinyoku – 'Forest Bathing'





Biophilia



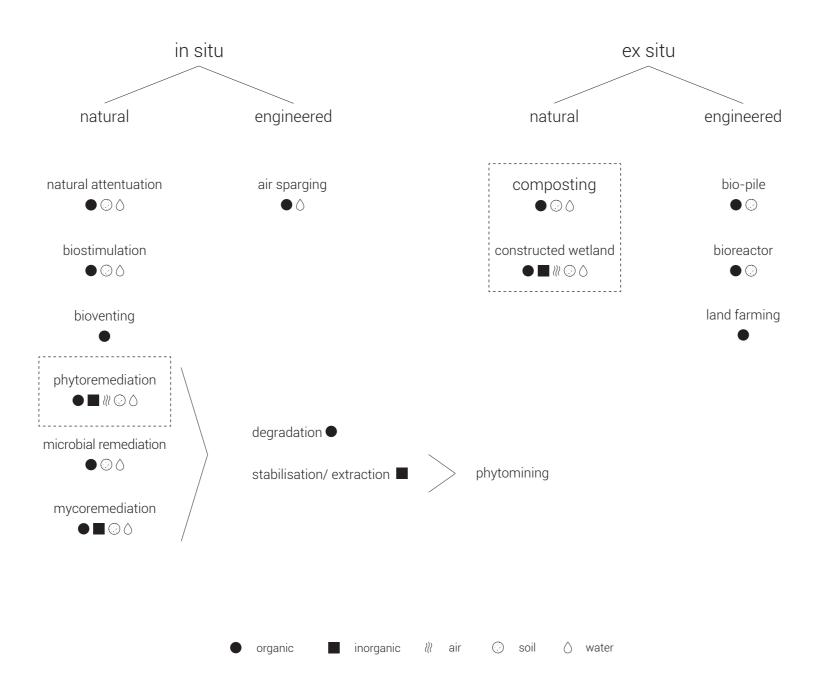


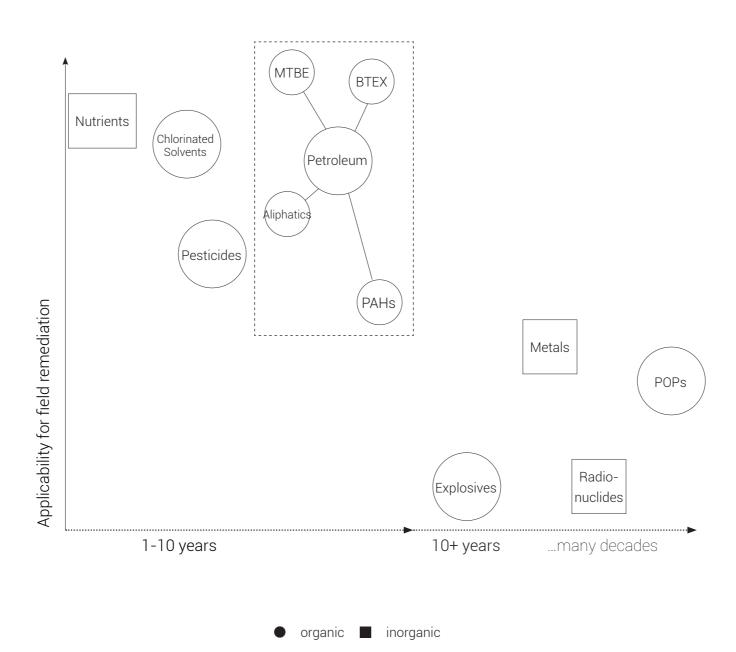
Horticulture therapy Sesual experience



Bioremediation

Landfill Reclamation, James Corner





Bioremediation







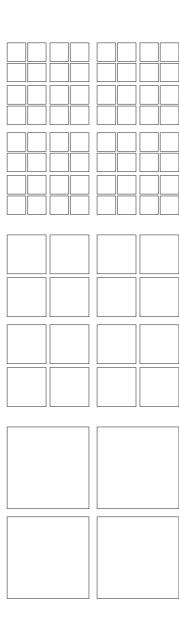
Trees Grasses Wetland plants

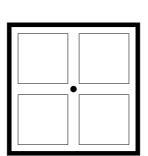


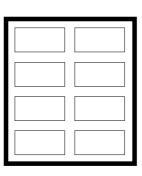
Garden

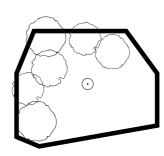
Hortus Conclusus, Peter Zumthor

THEORY









Spiritualityhortus contemplationis

Activity
hortus catalogi

Rest hortus ludis



RESEARCH QUESTIONS

- 1. How can the existing 'wild' nature and a newly created cultivated one synthesise into novel form of garden, and what would such a garden look like?
 - 2. How does a health-informed programme spatially and structurally manifest within the framework of a garden?

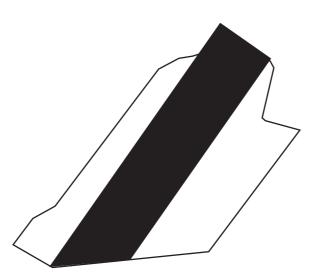
04 CONCEPT

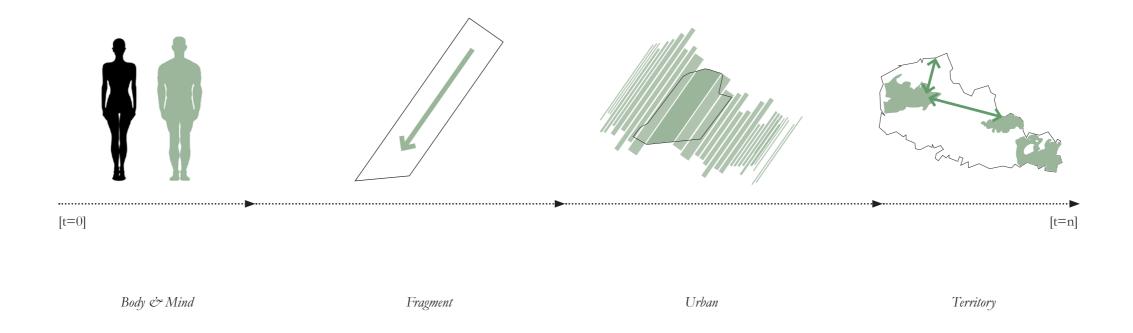
From the Territory to the Mind.

1. Remediate ground

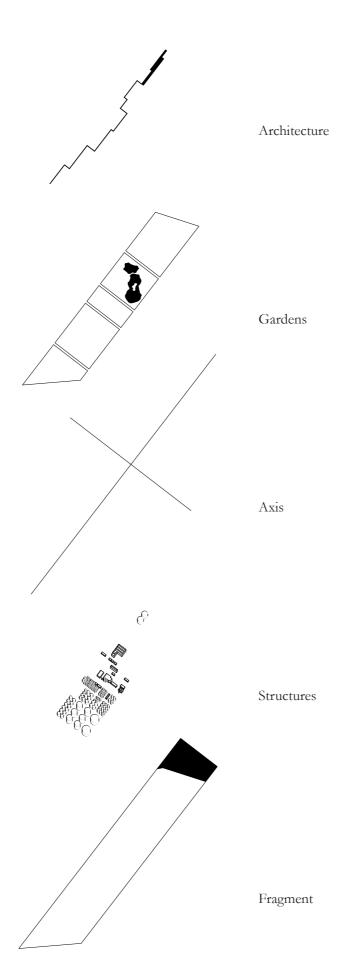
2. Redefine boundaries

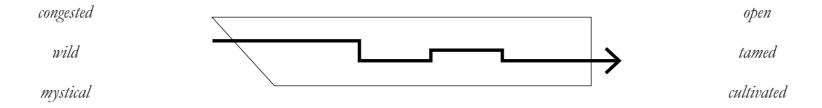
3. Reconcile inhabitants and their environment

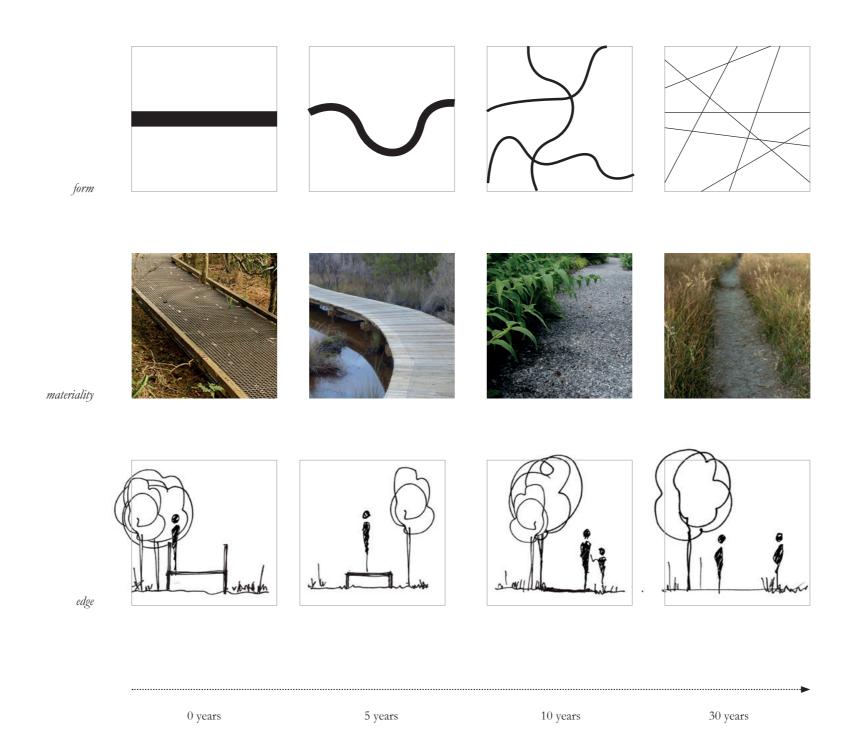




CONCEPT

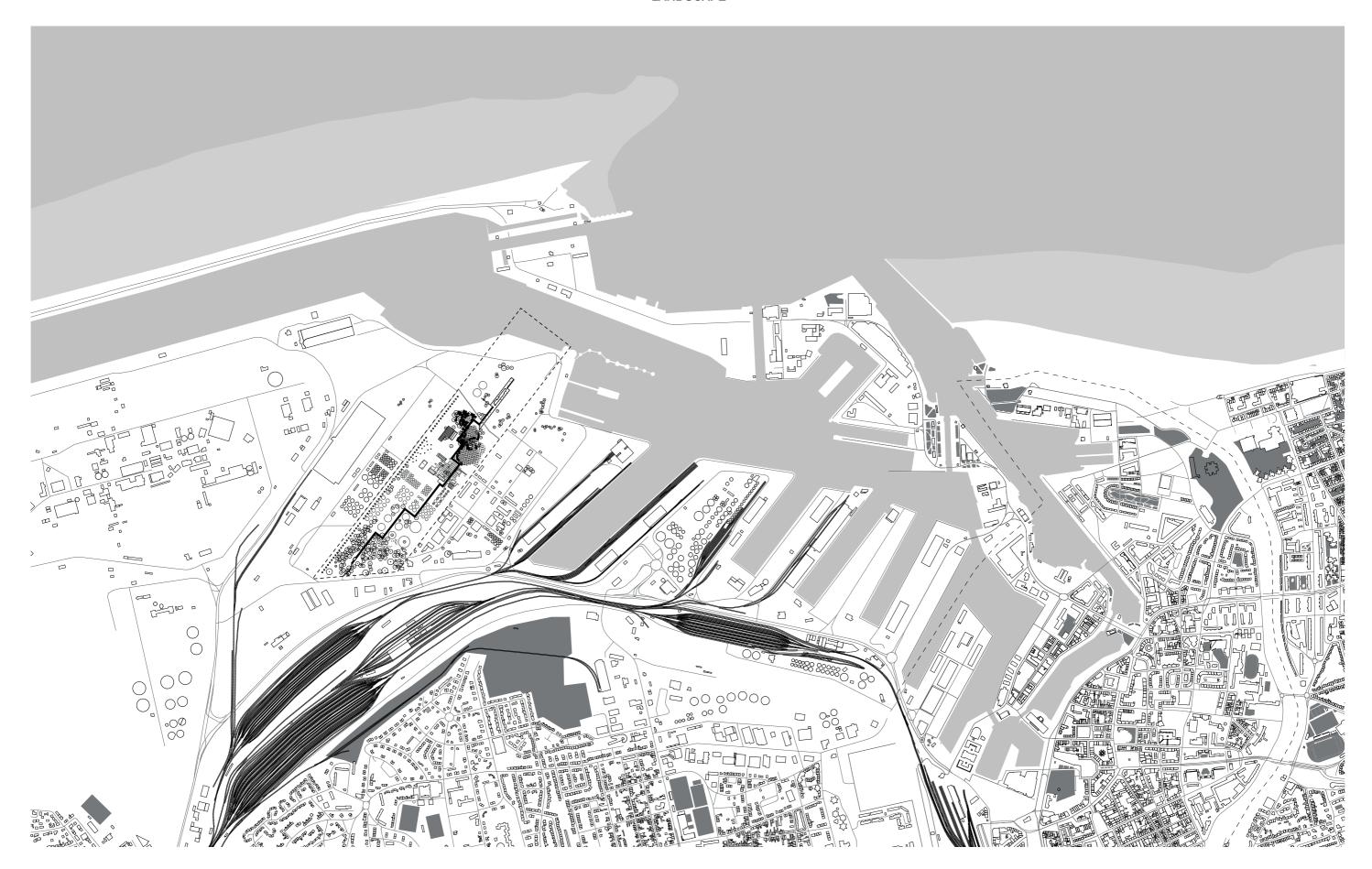


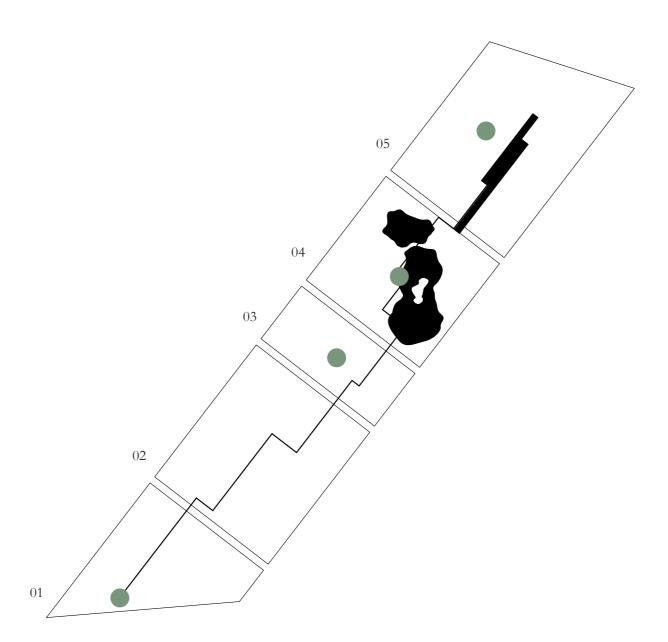




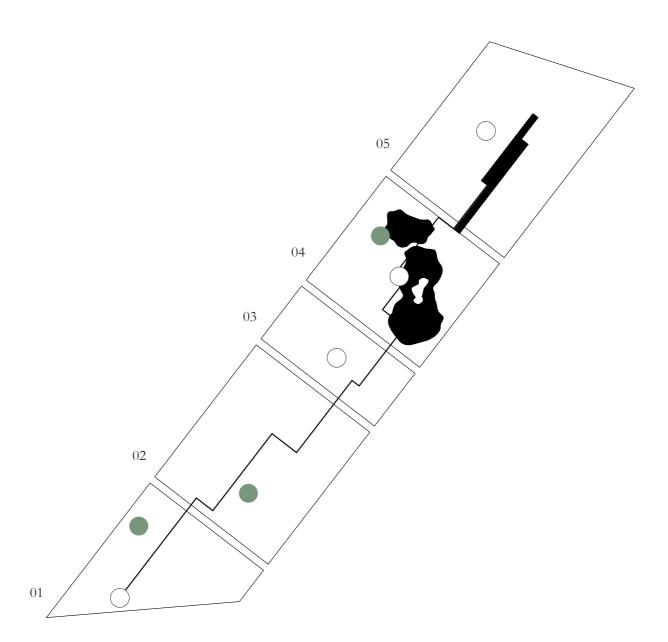
05 LANDSCAPE

outward-in

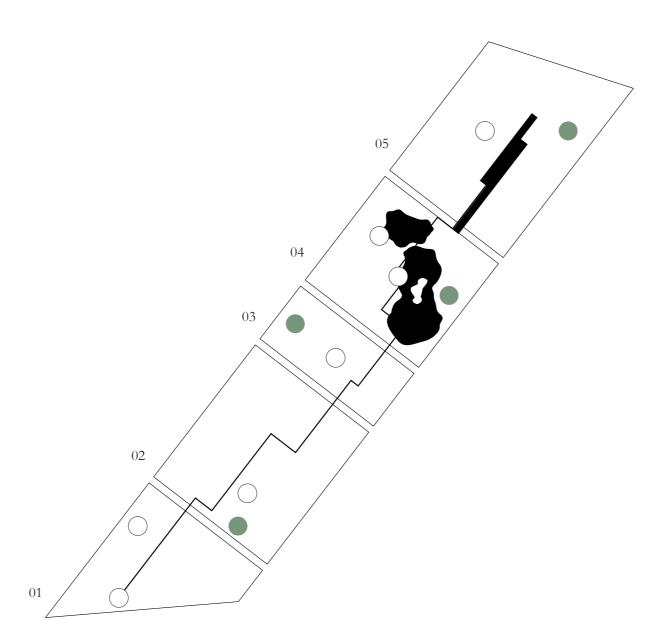




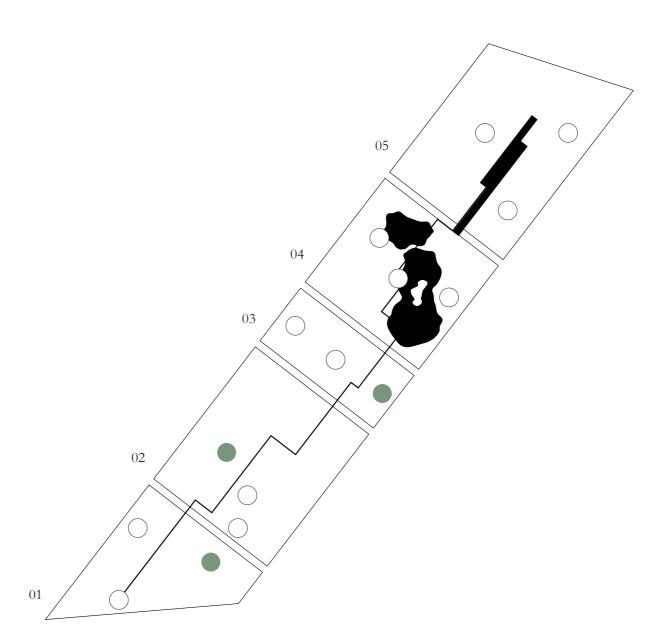
Moments *0 years*



Moments 5 years

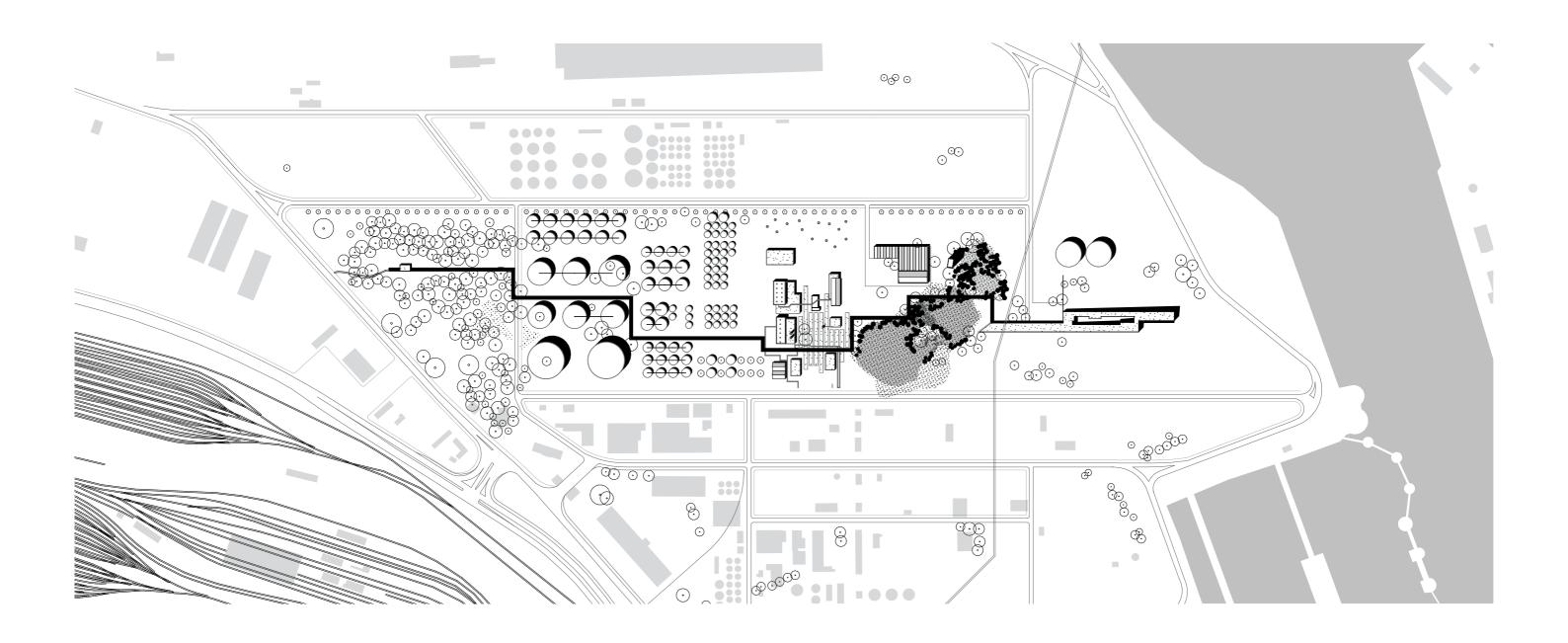


Moments 10 years

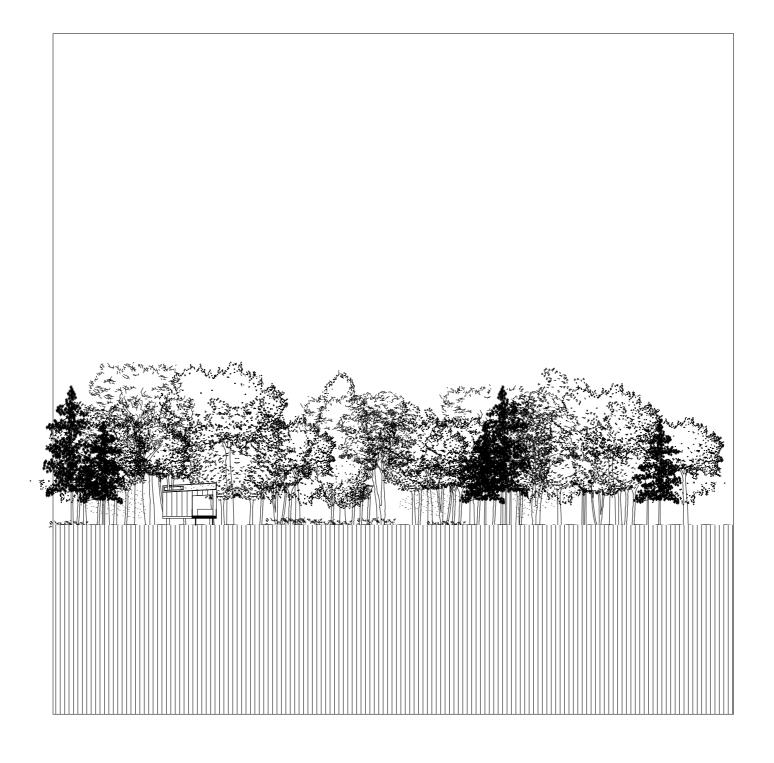


Moments 30 years

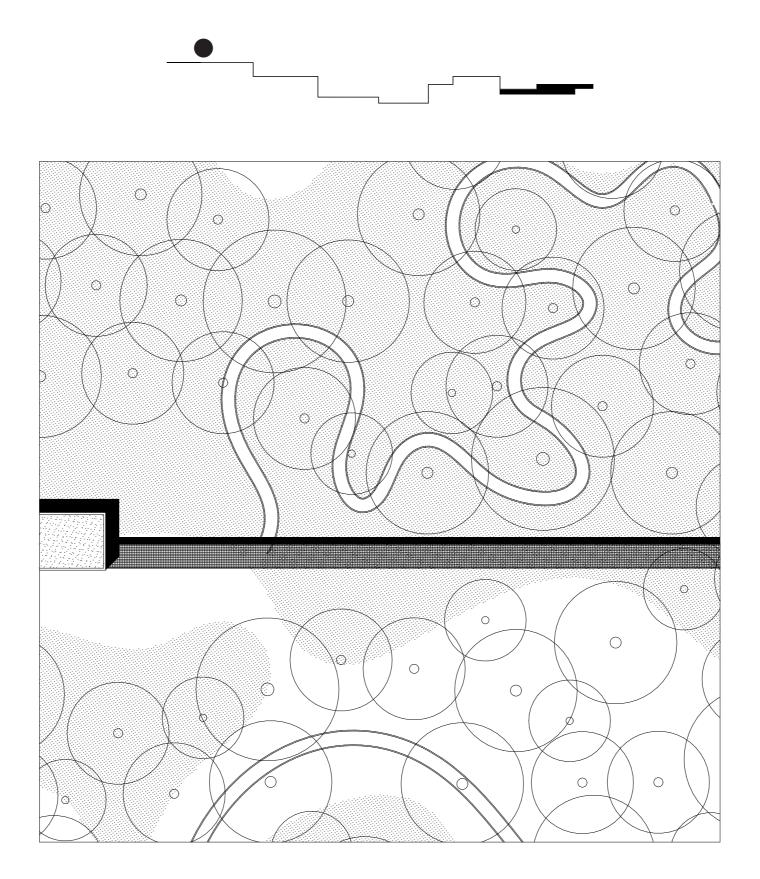








Arrival
Forest Garden – 0 years



Treetop Walk
Forest Garden – 5 years



Hammocks
Forest Garden – 30 years



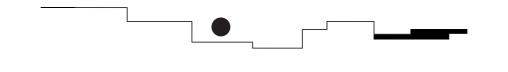


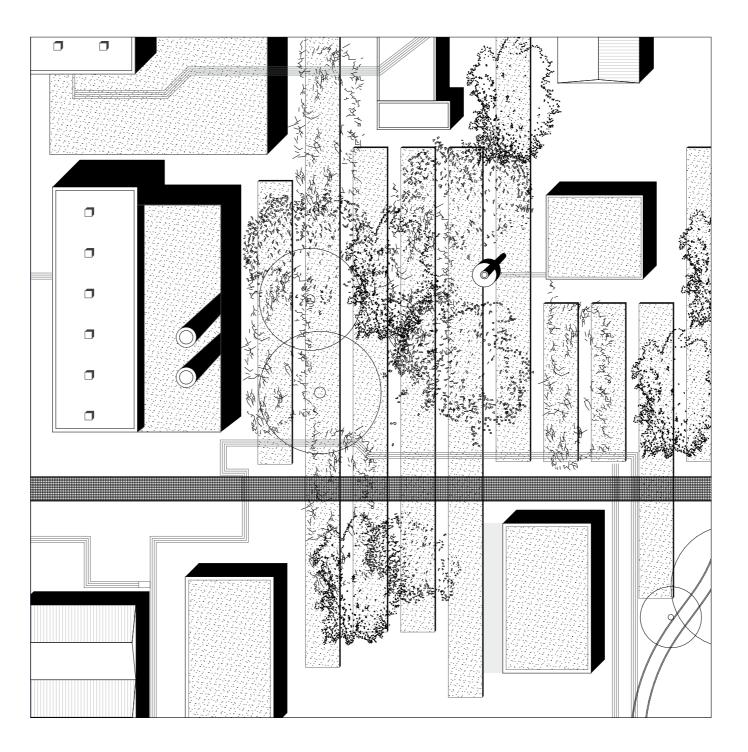
Peak Holes
Wild Garden – 5 years





Hideout
Wild Garden – 30 years





Perennials
Flower Garden – 0 years

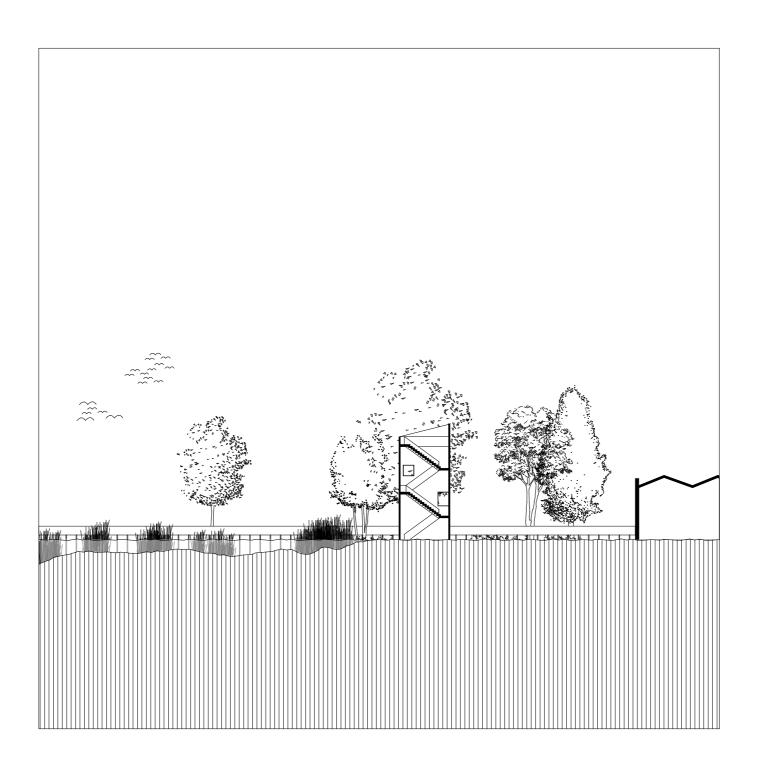
LANDSCAPE



Walk along Refinery Structures

Flower Garden – 10 years





LANDSCAPE



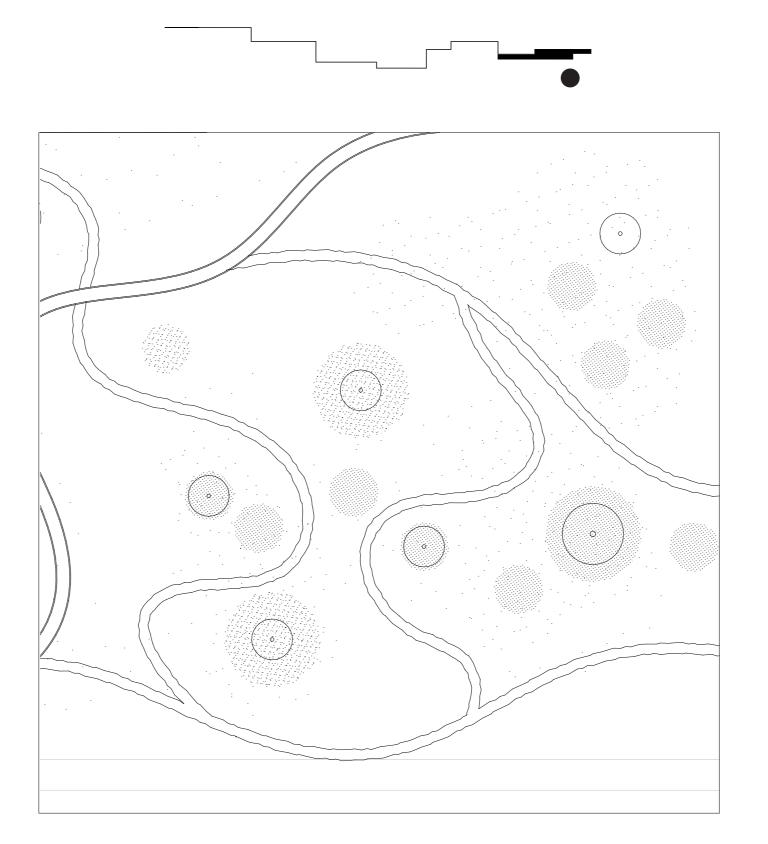
Swings Water Garden – 10 years





Horticultural Therapy

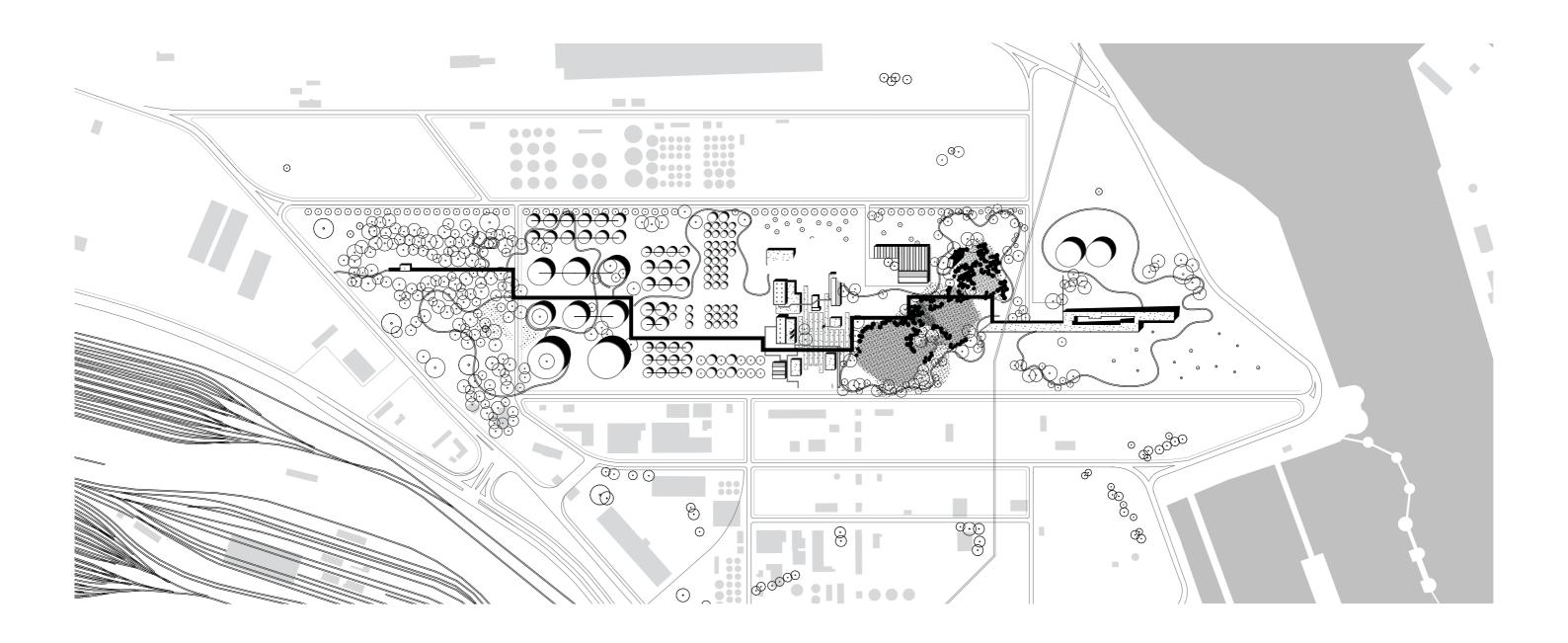
Plain Garden – 0 years

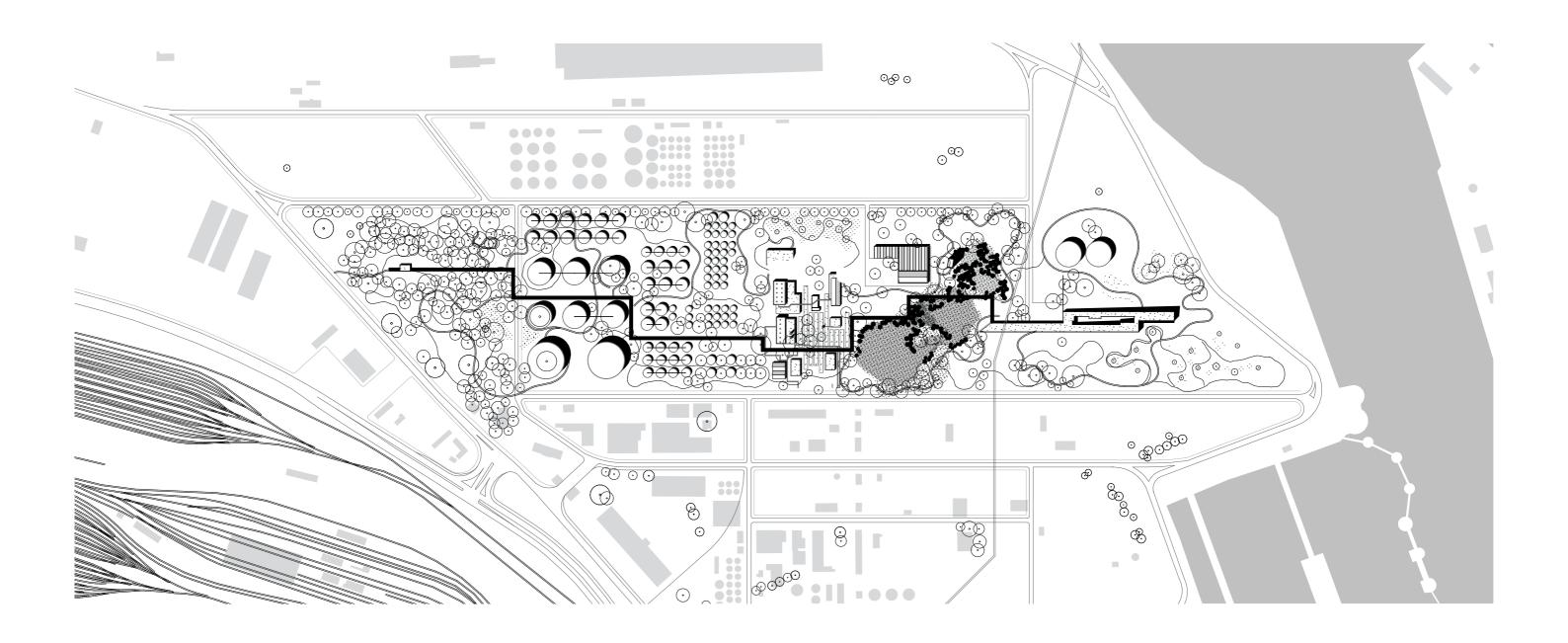


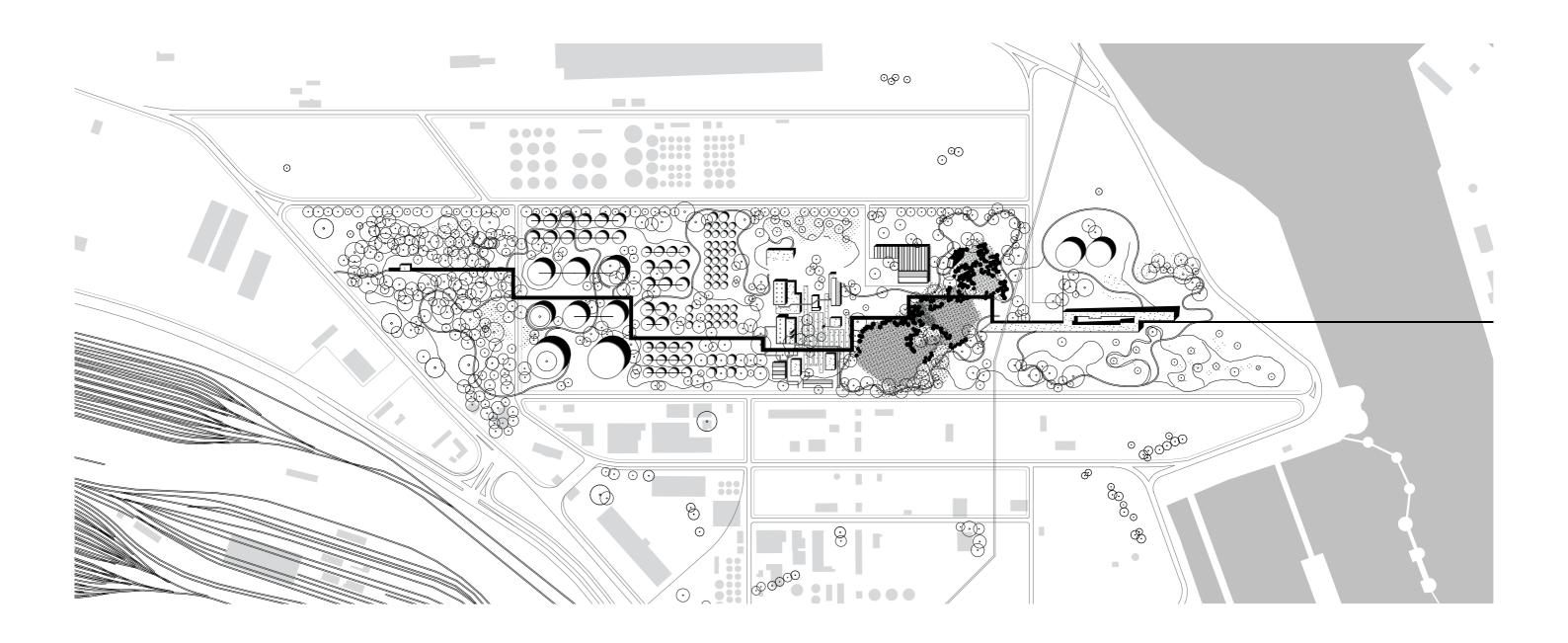


Meditation Field

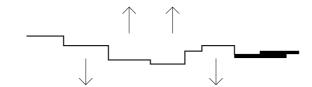
Plain Garden – 10 years

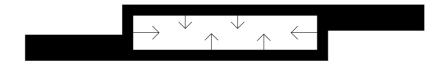






inward-out





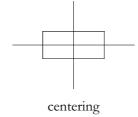
wall

'inhabited wall'

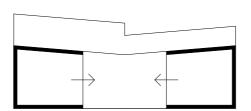
public – private



enclosing

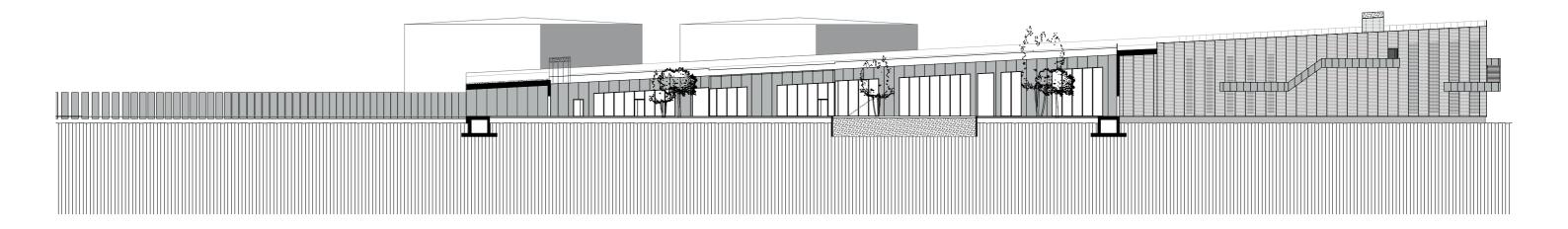


Built Form

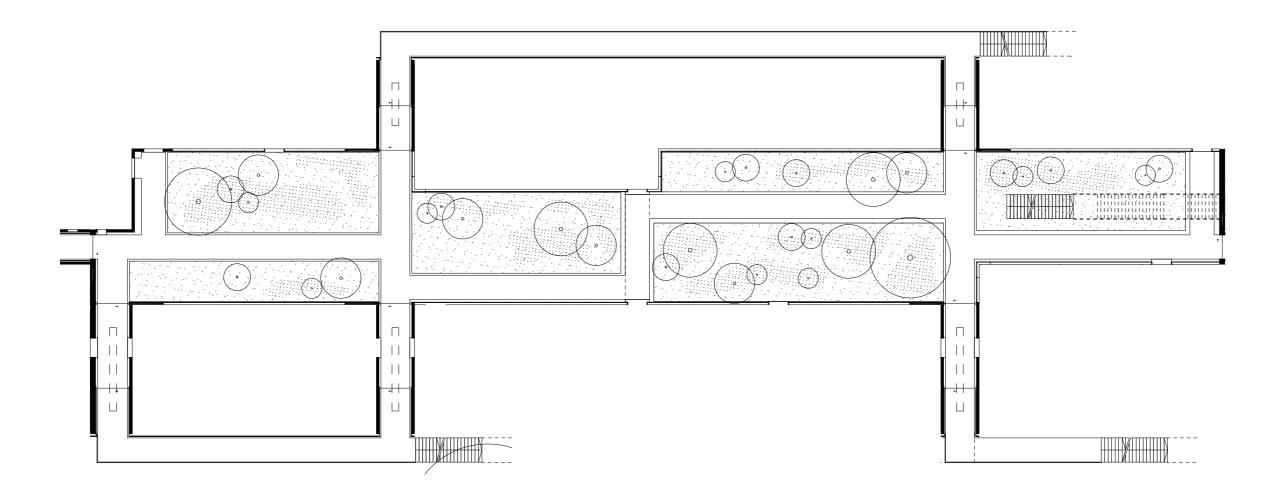




Approaching the Visitor Centre

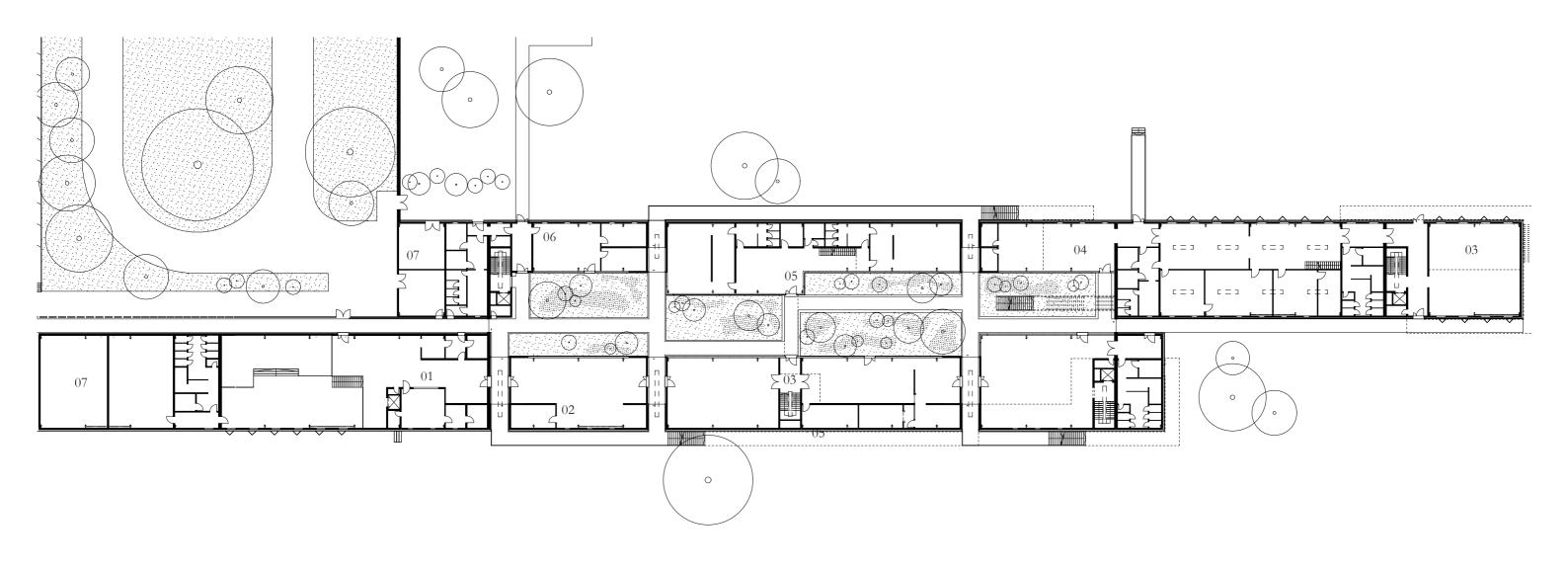


And so we encircle it, ...
the garden turns into a place.

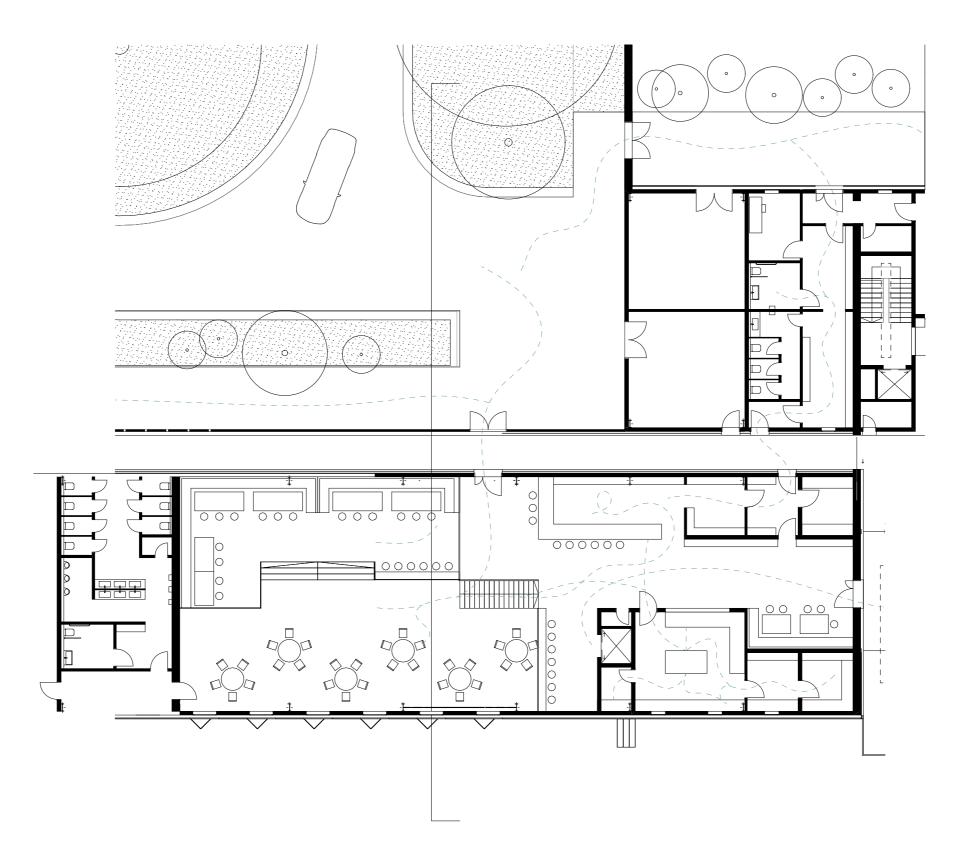


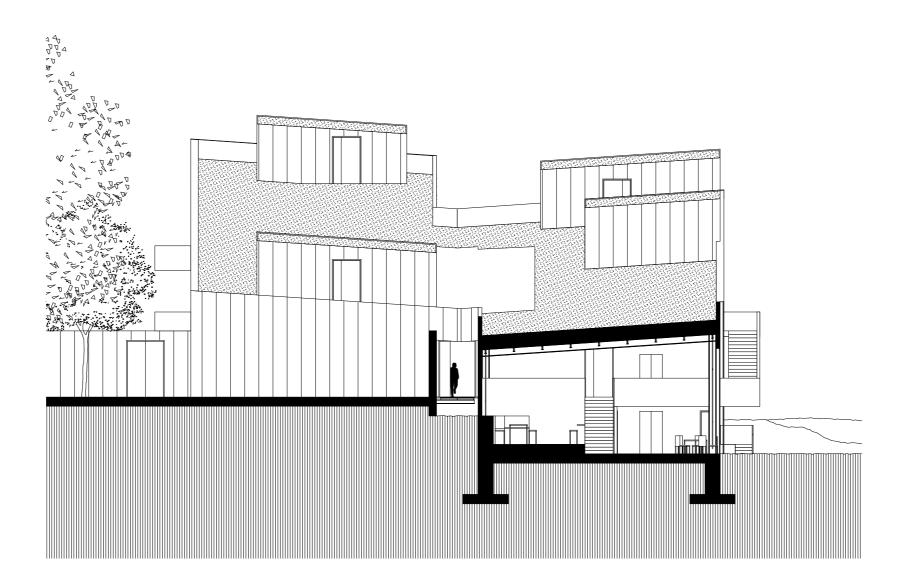


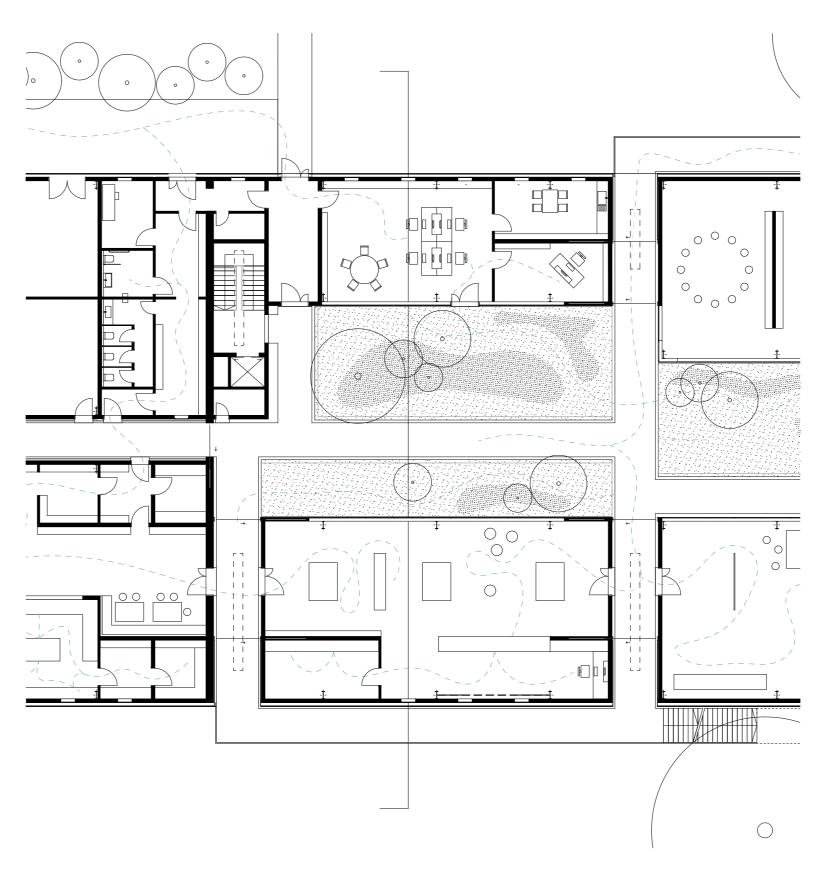
Inside the internal Garden



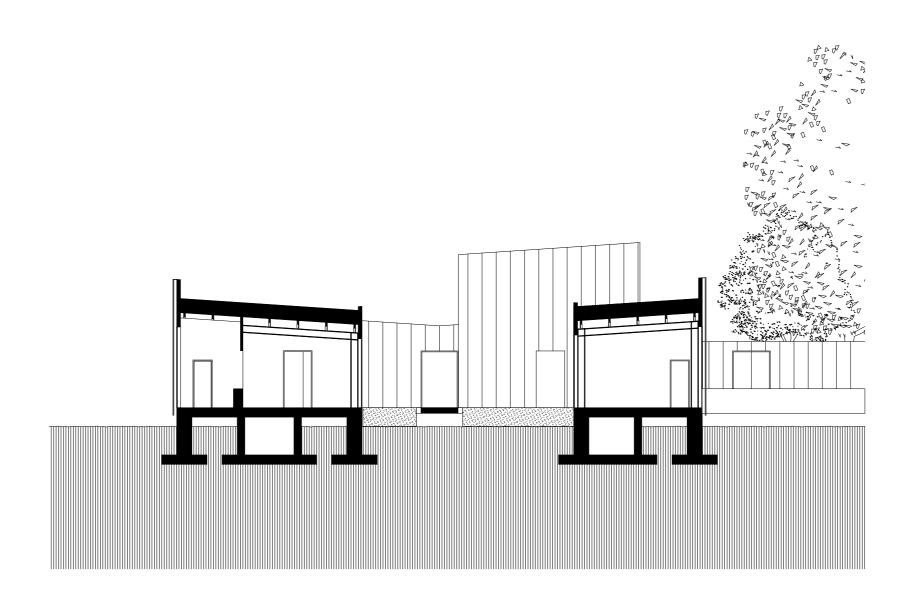
Programme Ground Level

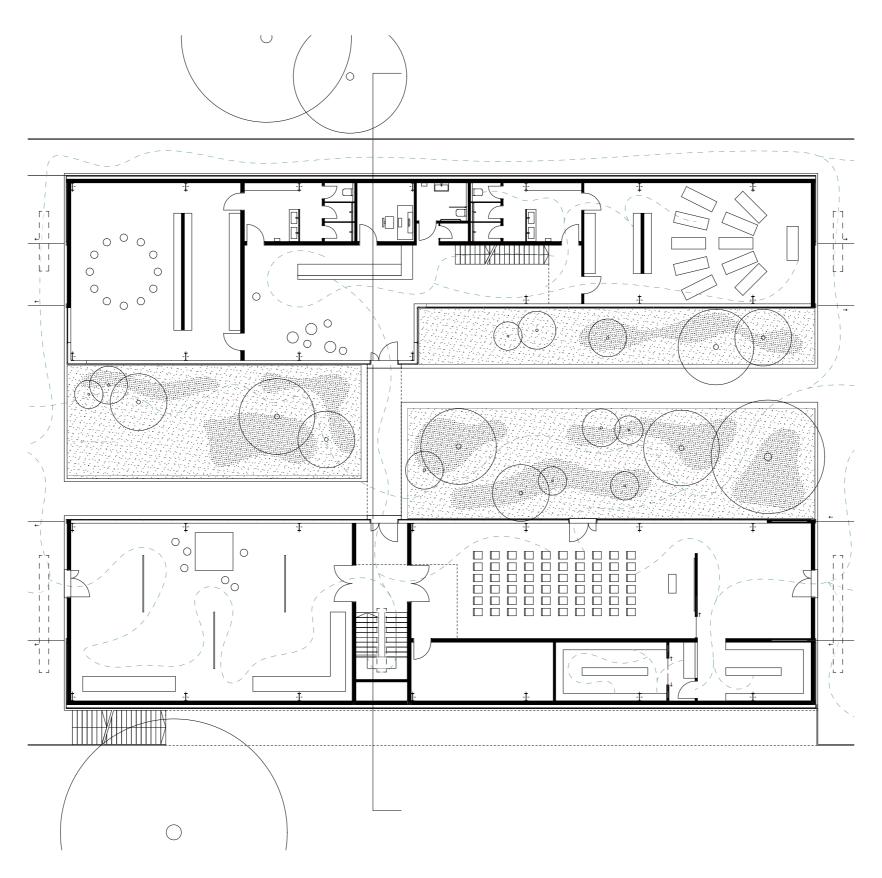


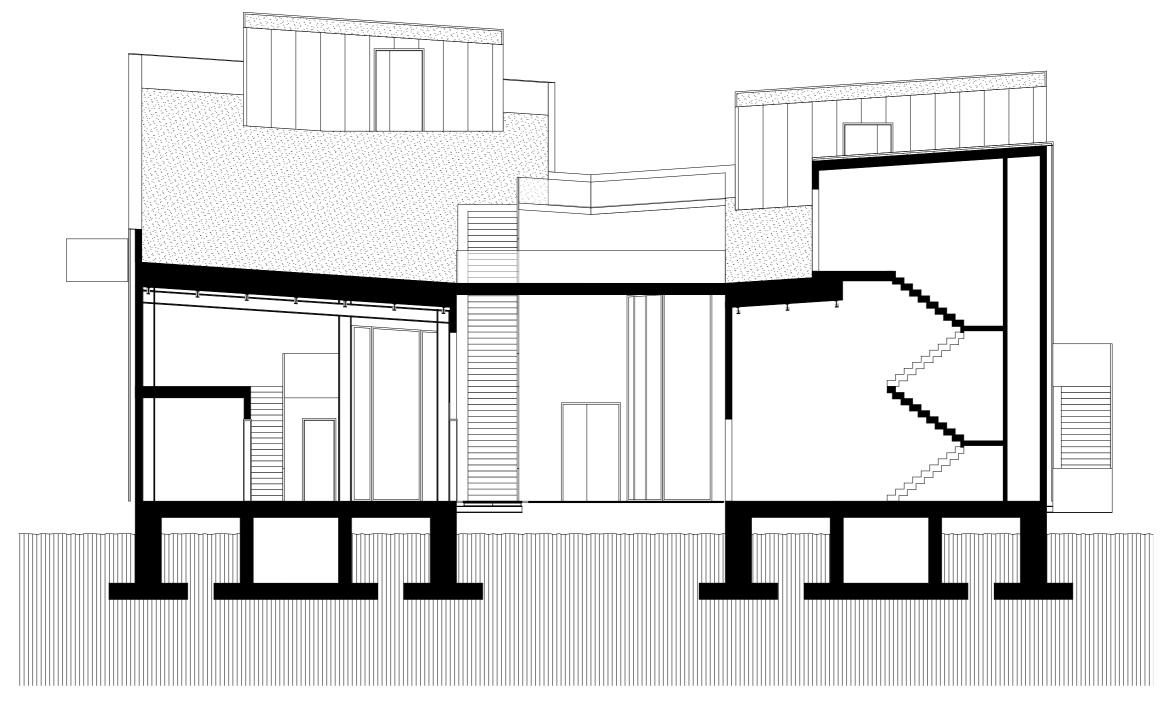




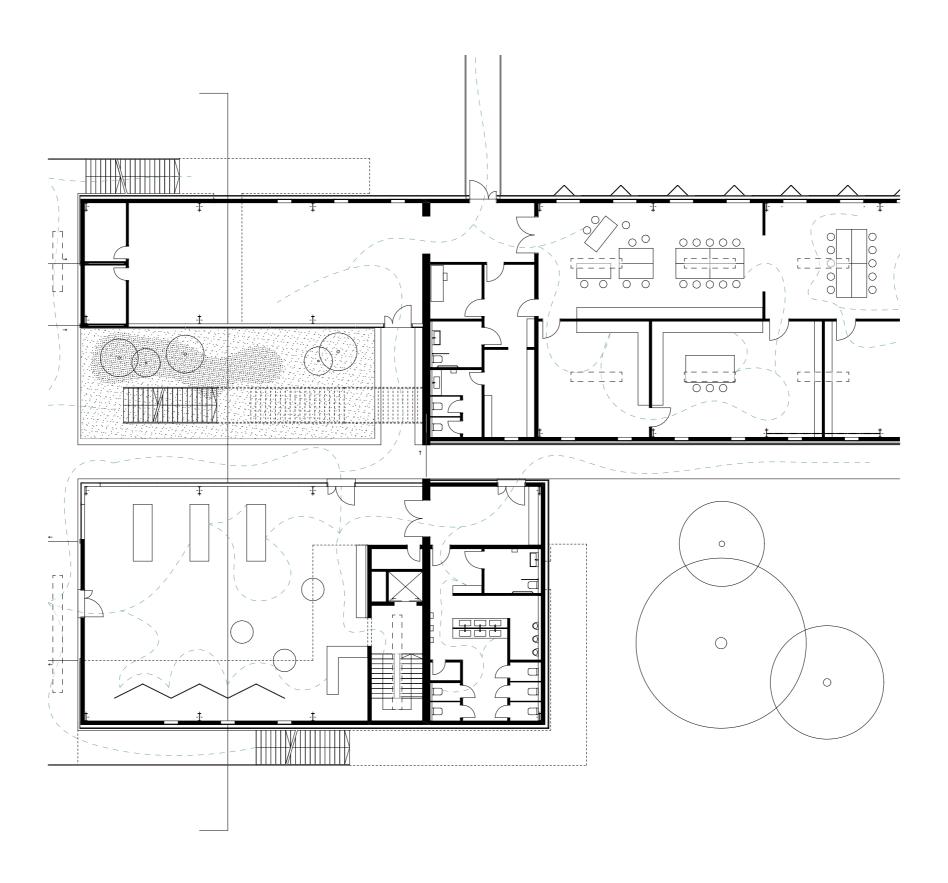
Administraion & Shop

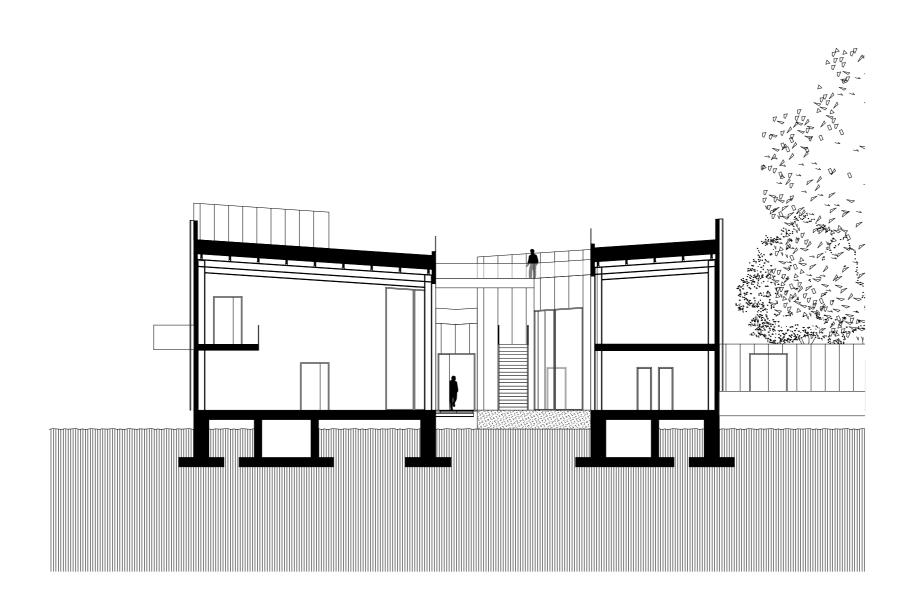


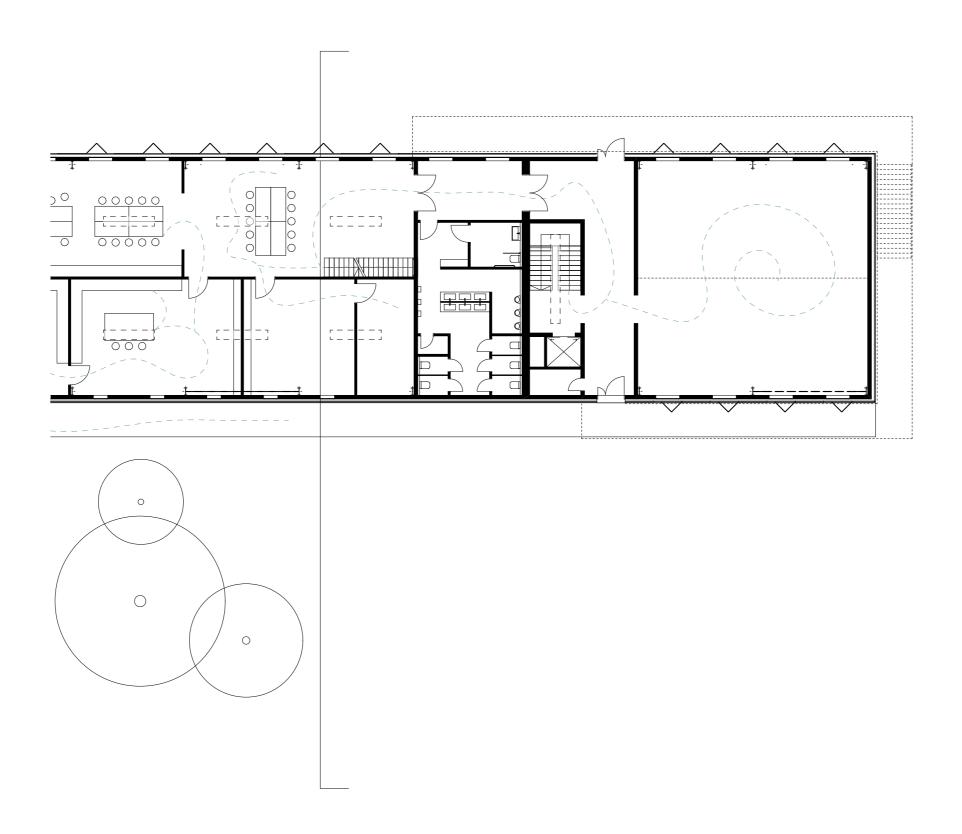




View towards Entry from Water

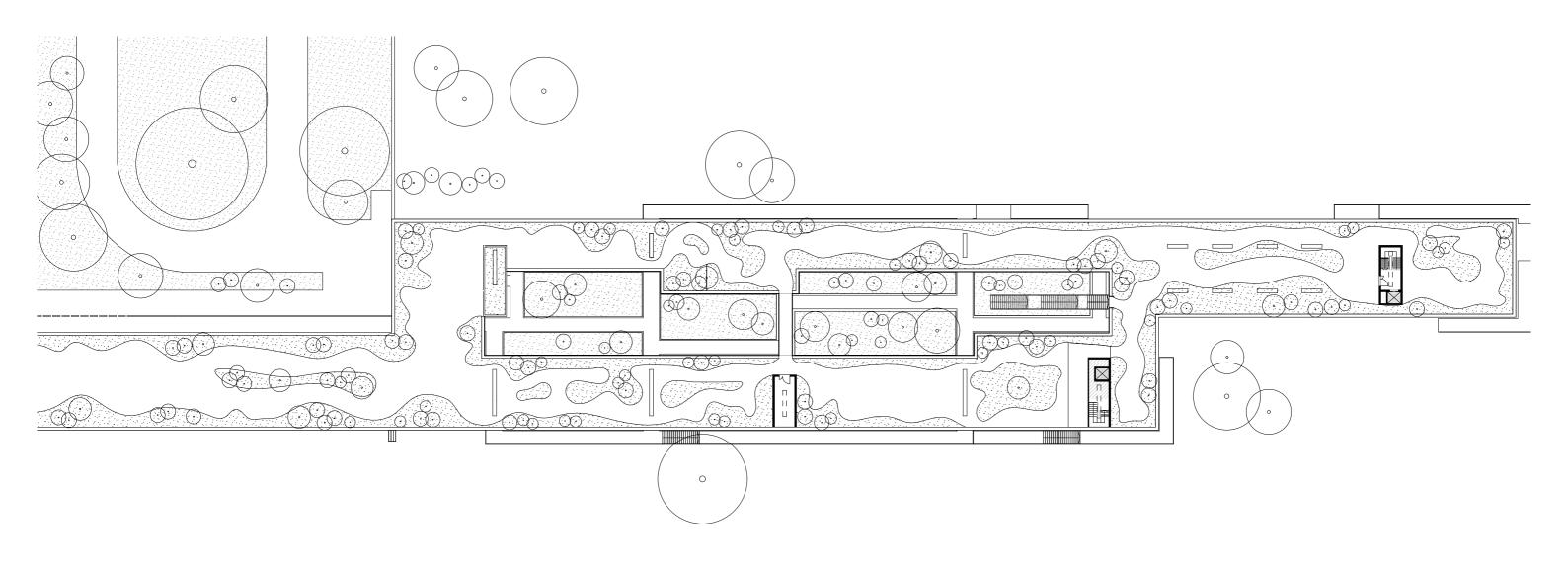


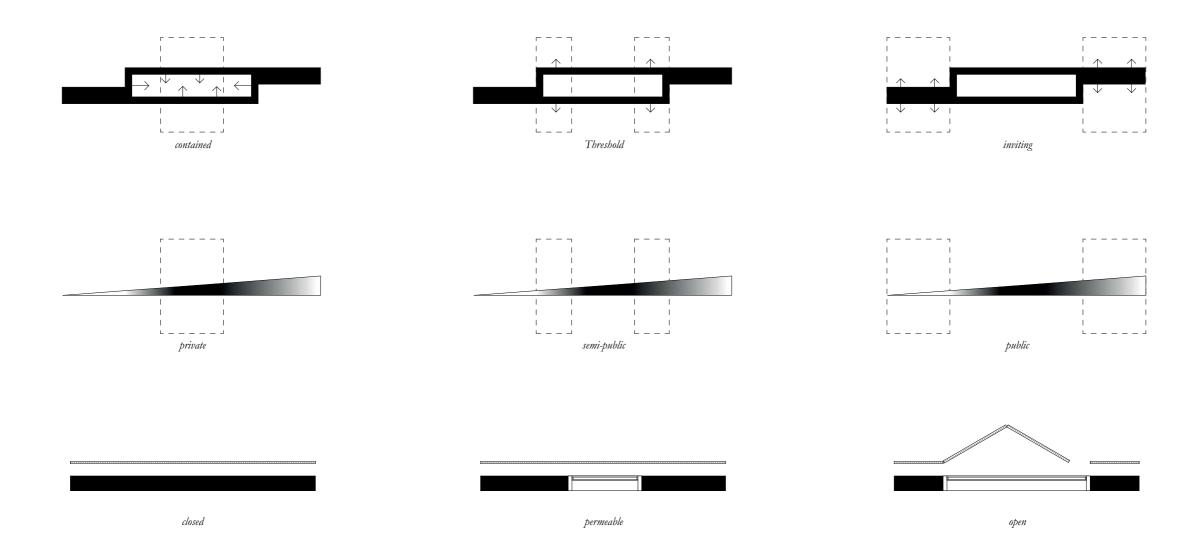




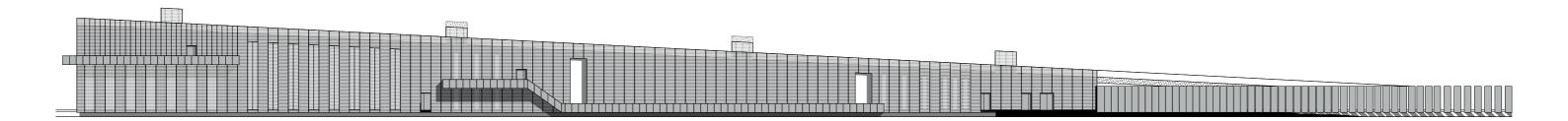


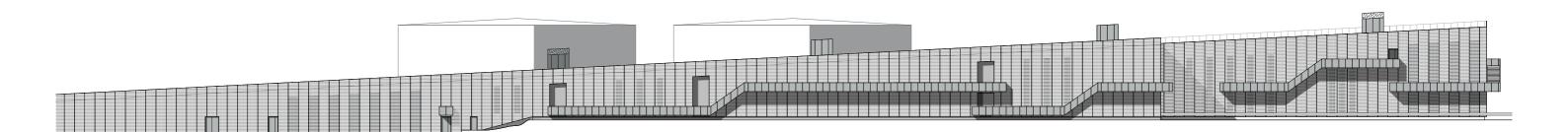
Stairs towards Rooftop

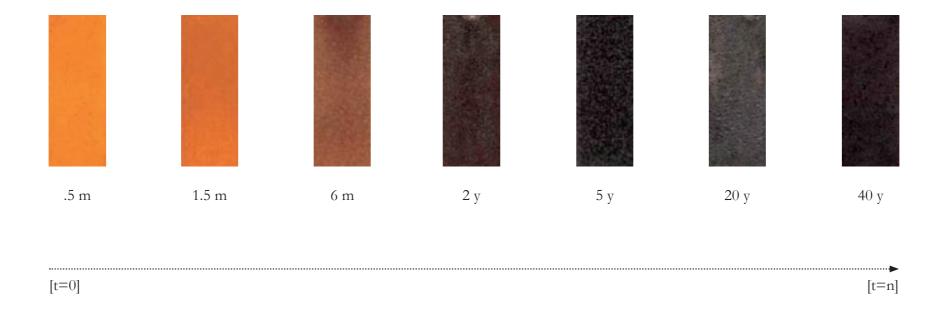




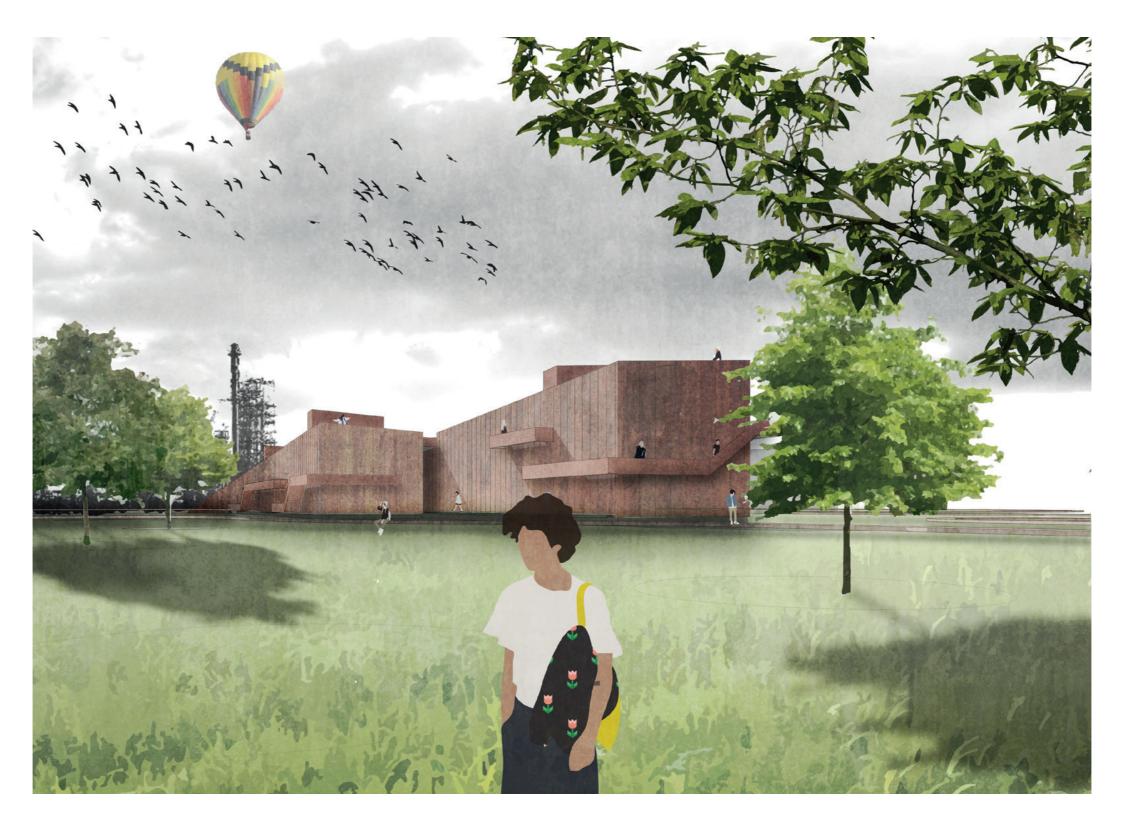
Façade Scheme







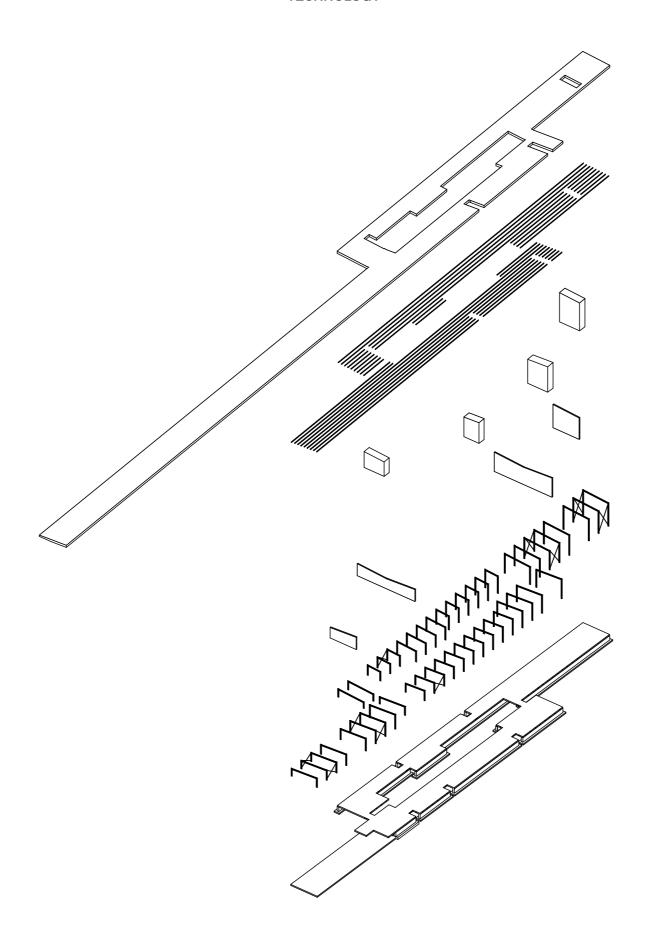
Ephemerality



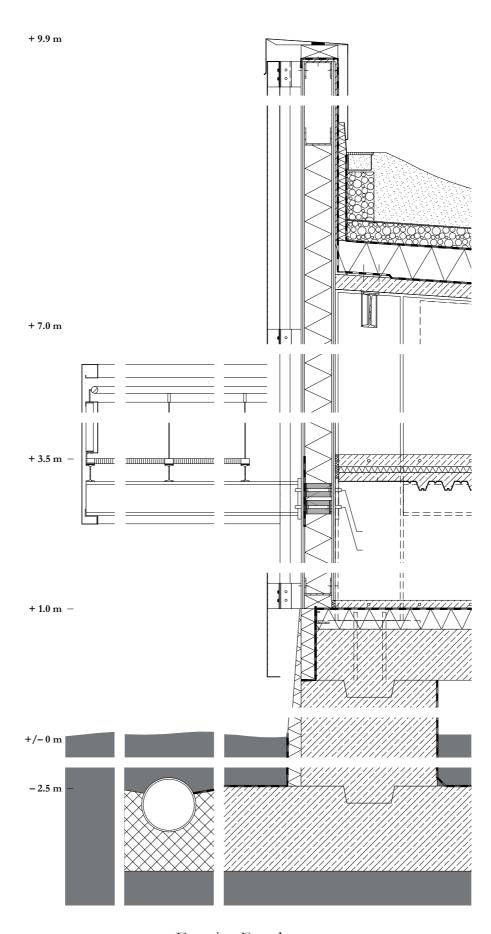
View from North Sea

Plain Garden

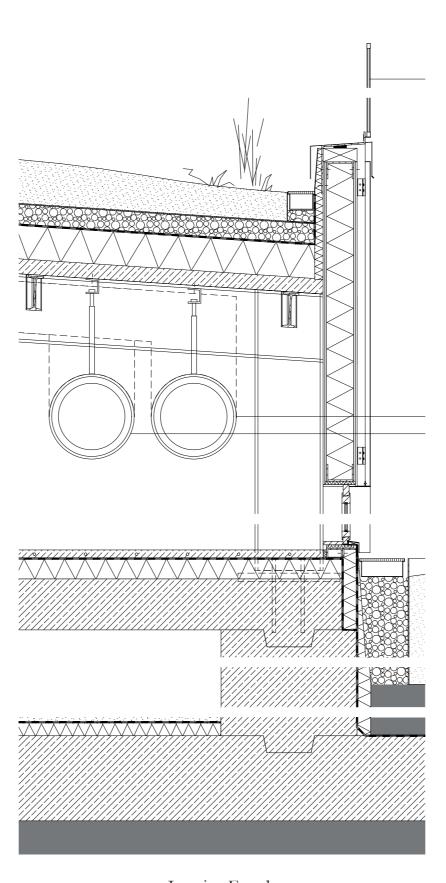
TECHNOLOGY



Structural Elements

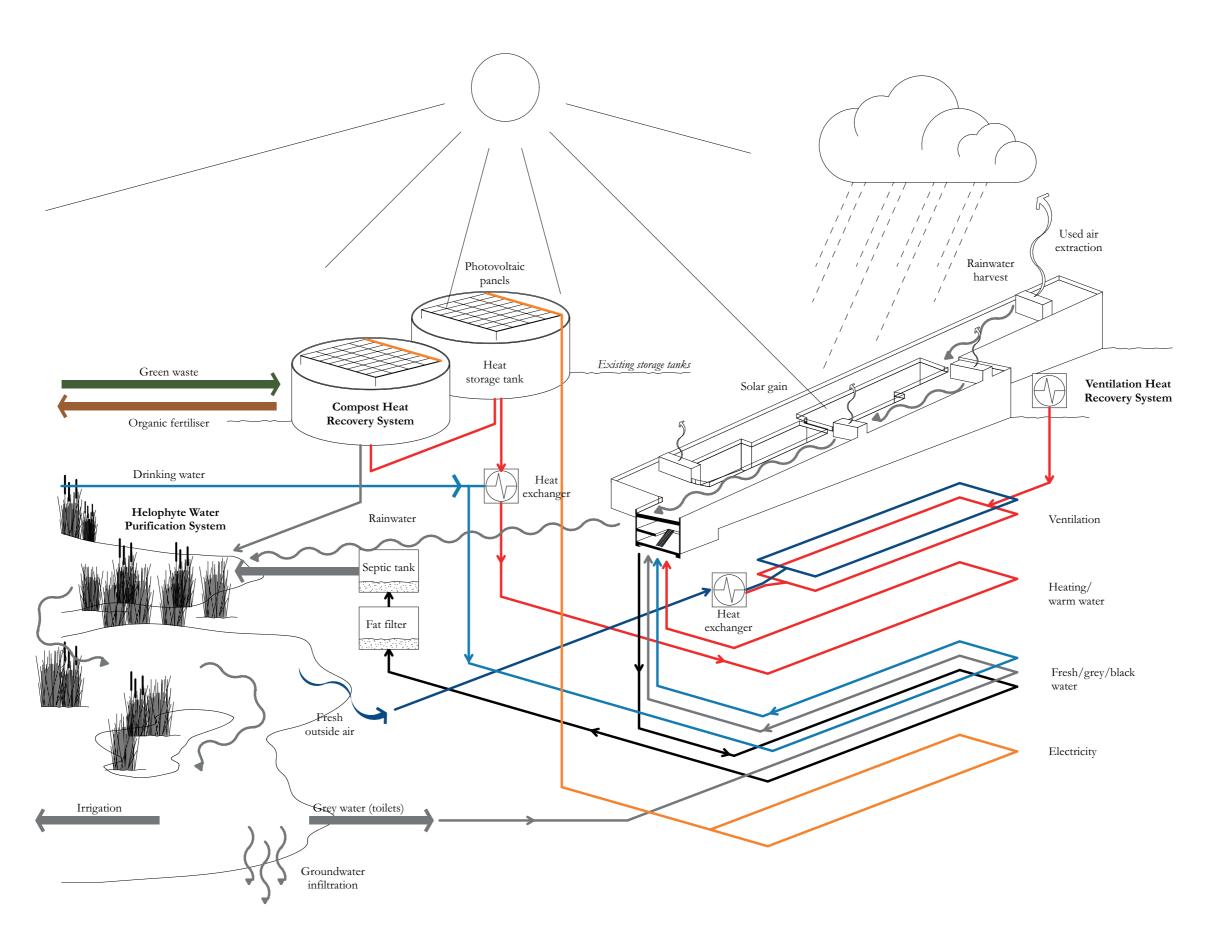


Exterior Façade

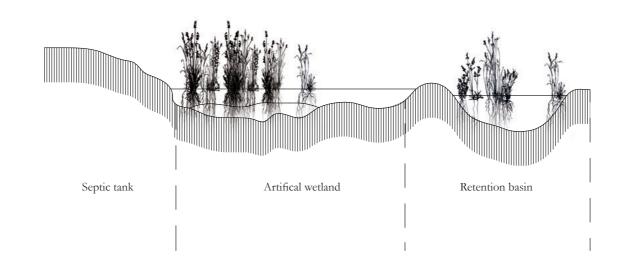


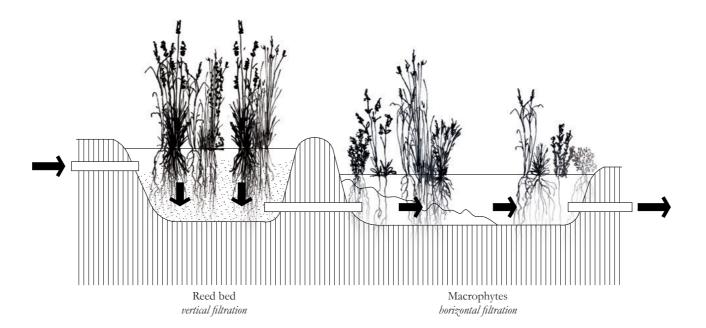
Interior Façade

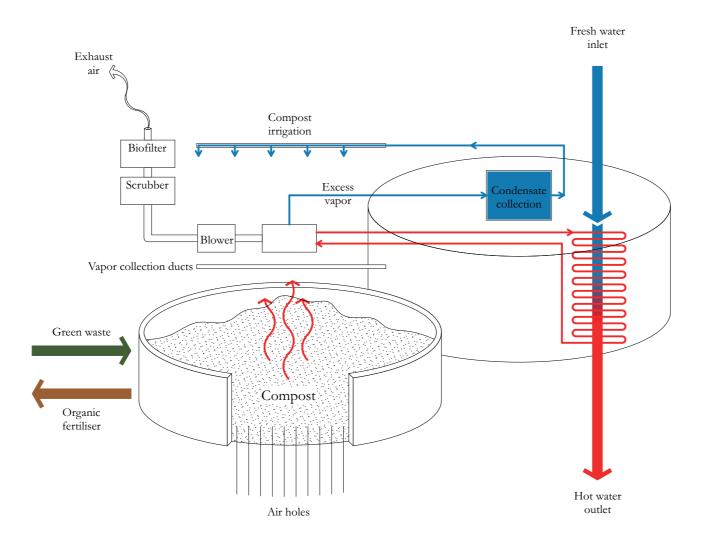
TECHNOLOGY

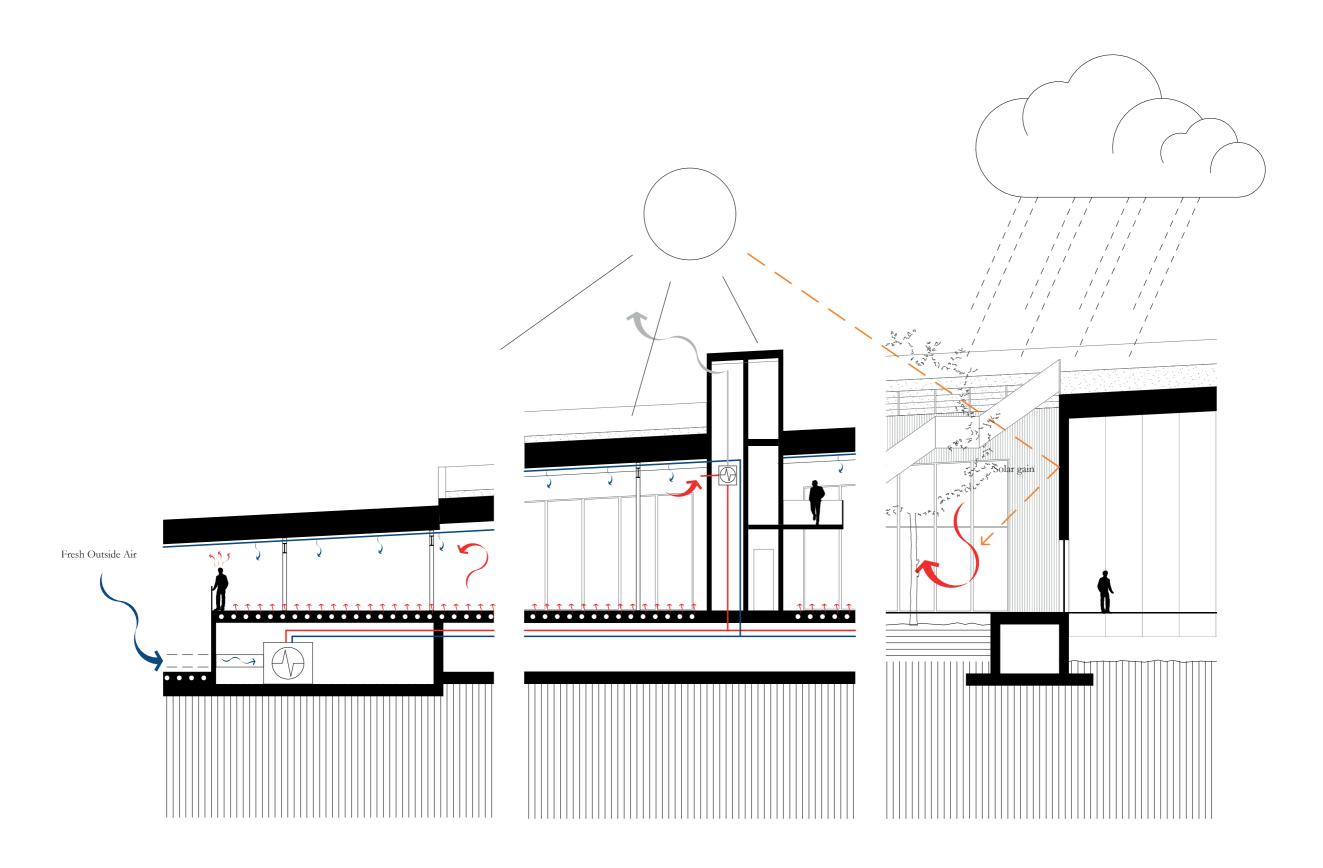


System Flows

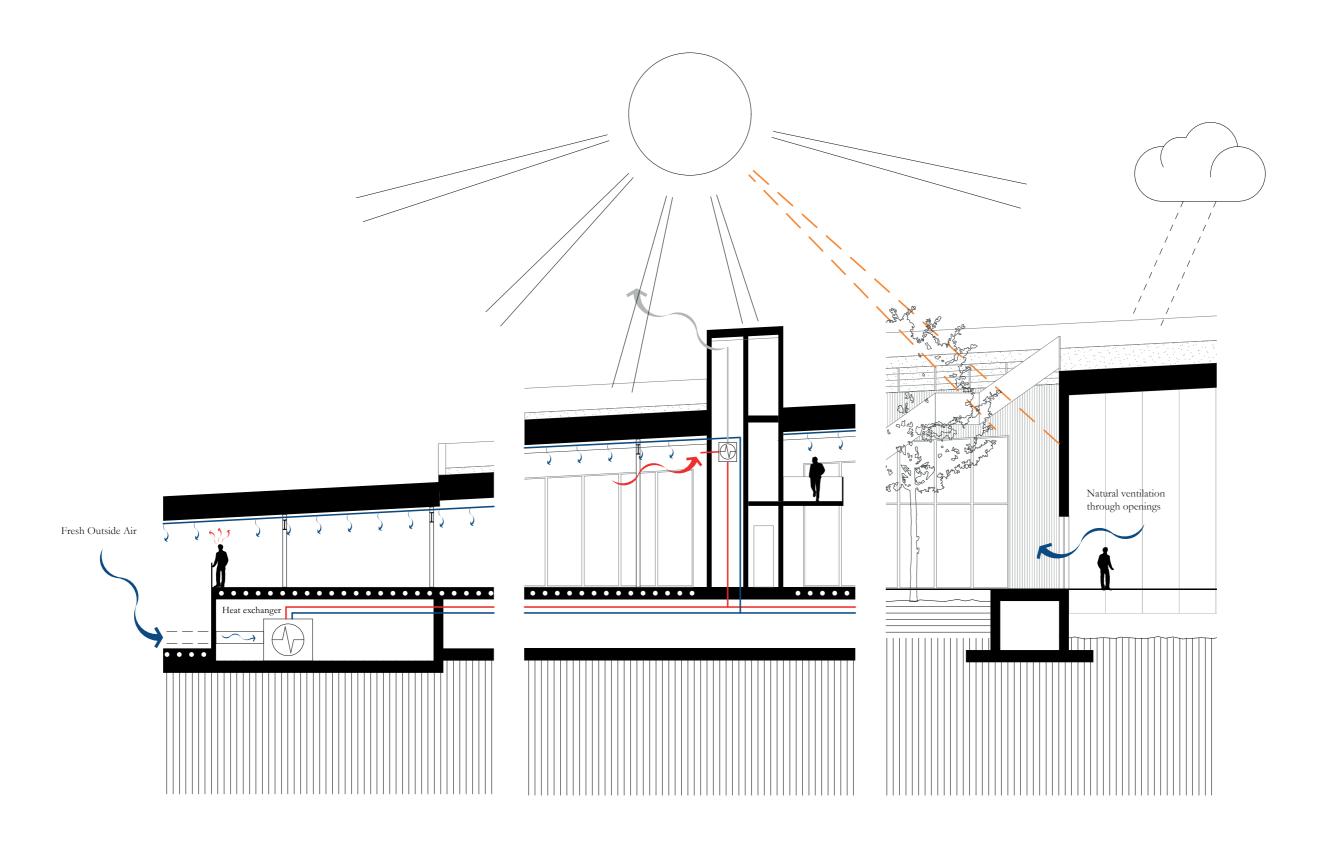








Climate Scheme Winter



Climate Scheme Summer

08 CONCLUSION

Healing Gardens

CONCLUSION

REVIVED ECOSYSTEM

INCREASED SITE VALUE

HEALTHIER PUBLIC

Territory

Urban/Landscape

Body & Mind



CONCLUSION

LINKING ECOSYSTEMS RENEWABLE ENERGY SOURCES

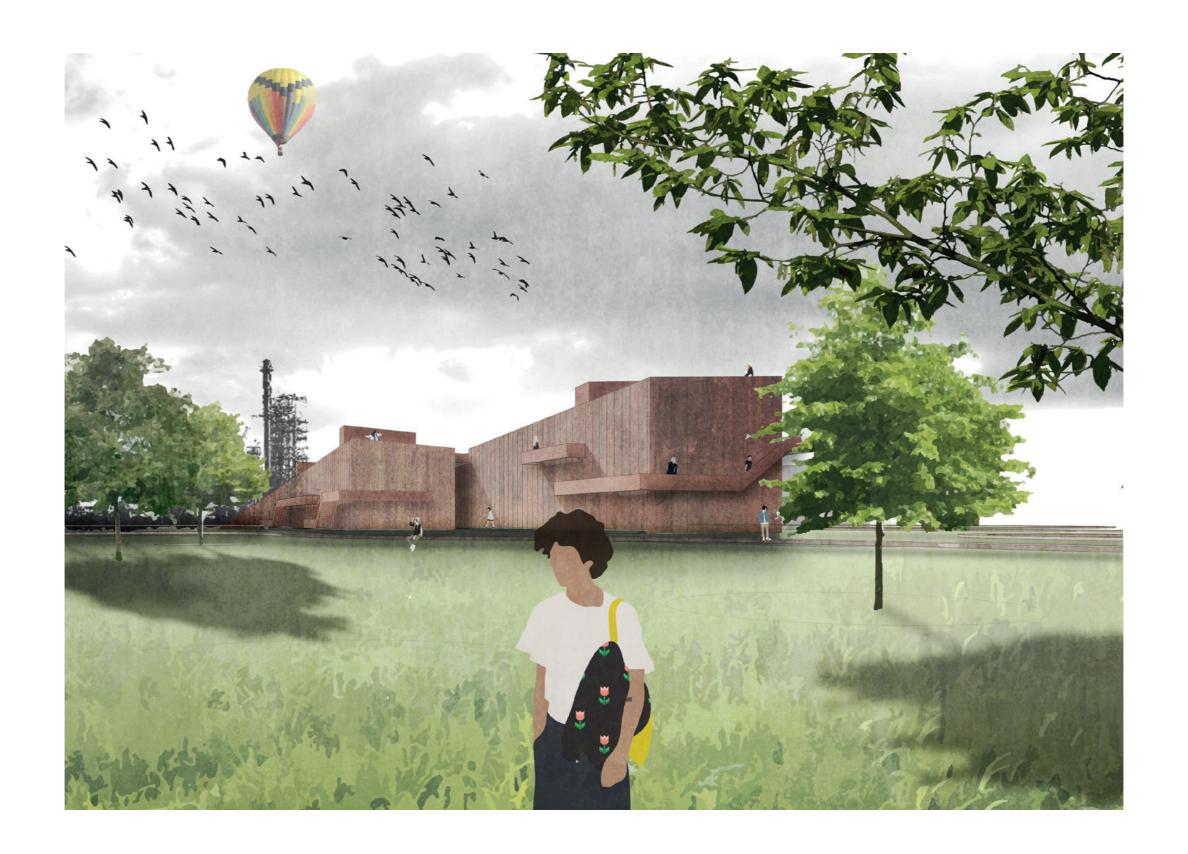
EDUCATIONAL EXPERIENCE

Territory

Urban/Landscape

Body & Mind

MINDSCAPES



Thank you.