

The “Time Shelter” Nedstaal

Revitalizing one of Alblasserdam’s most iconic maritime industrial heritage sites

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Research tutor: Dr. Marie-Therese van Thoor

Building Technology tutor: Thijs Bennebroek

Revitalizing Heritage | Architecture & Heritage

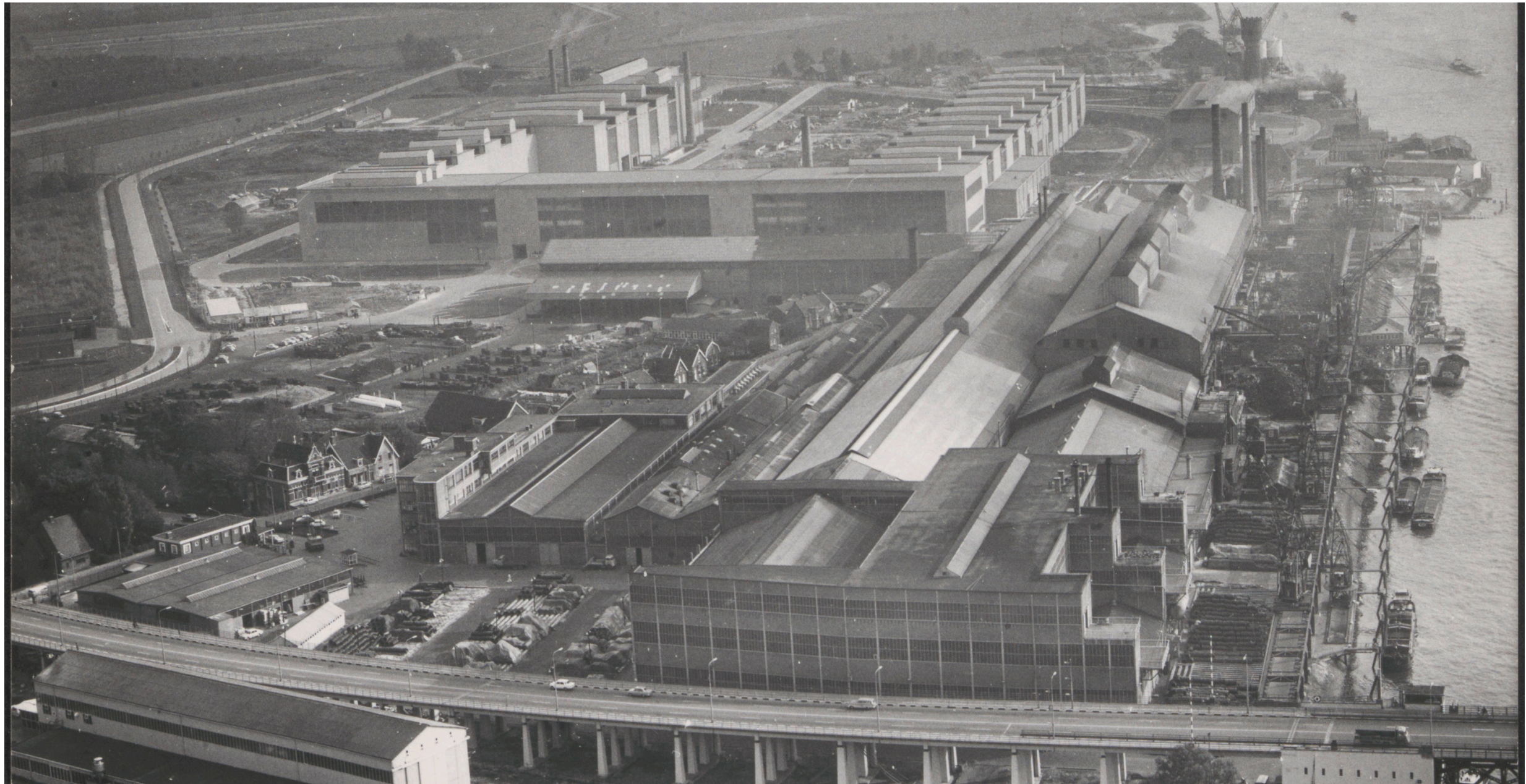
TU/ Delft | P5 presentation | 23.06.2025

Nedstaal terrain | Situation



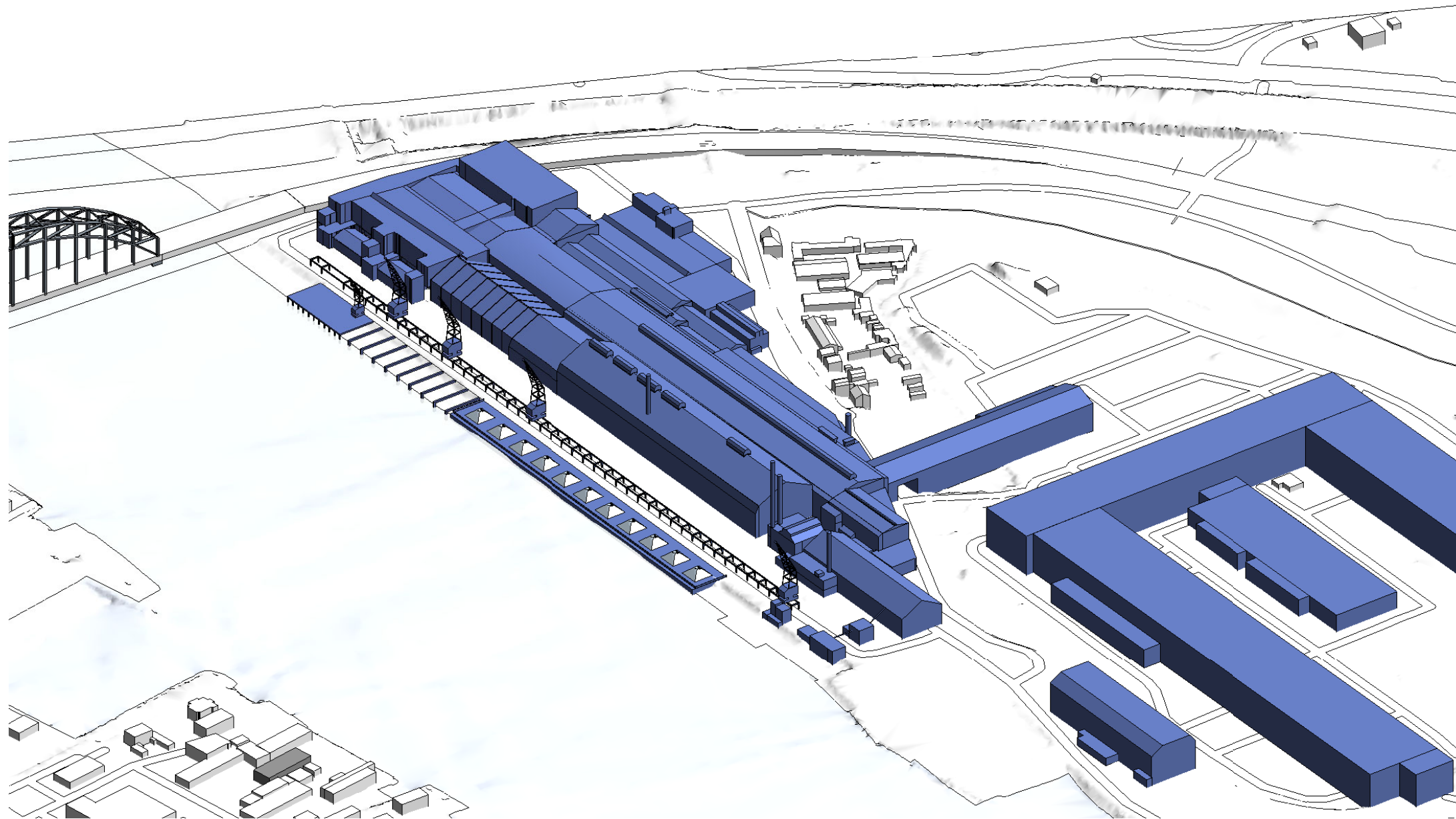
Maps source: (Google Earth, 2025)

Nedstaal in the 70's

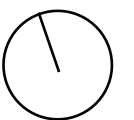


Source: (Areal view of Nedstaal in Alblasterdam [photograph]. (1974). Regional Archive Dordrecht.)

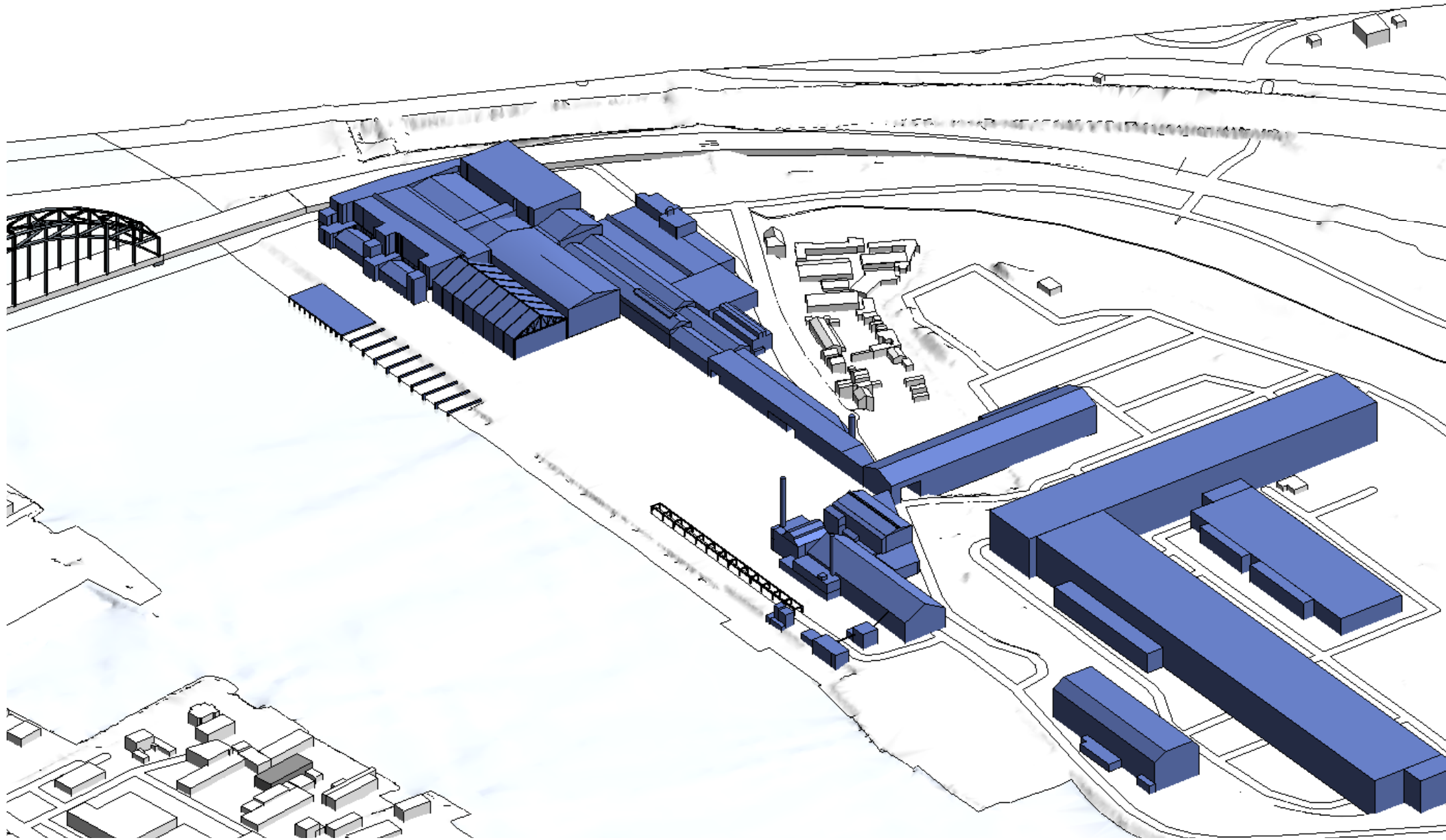
Nedstaal in the period 1960's up until 2018 | South-west view



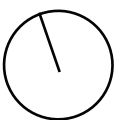
Source: (Marinova, M., 2024)



Nedstaal current situation | South-west view



Source: (Marinova, M., 2024)





“Time Shelter” / sheltering “time” / Who’s time? Time = Memories = Place formation

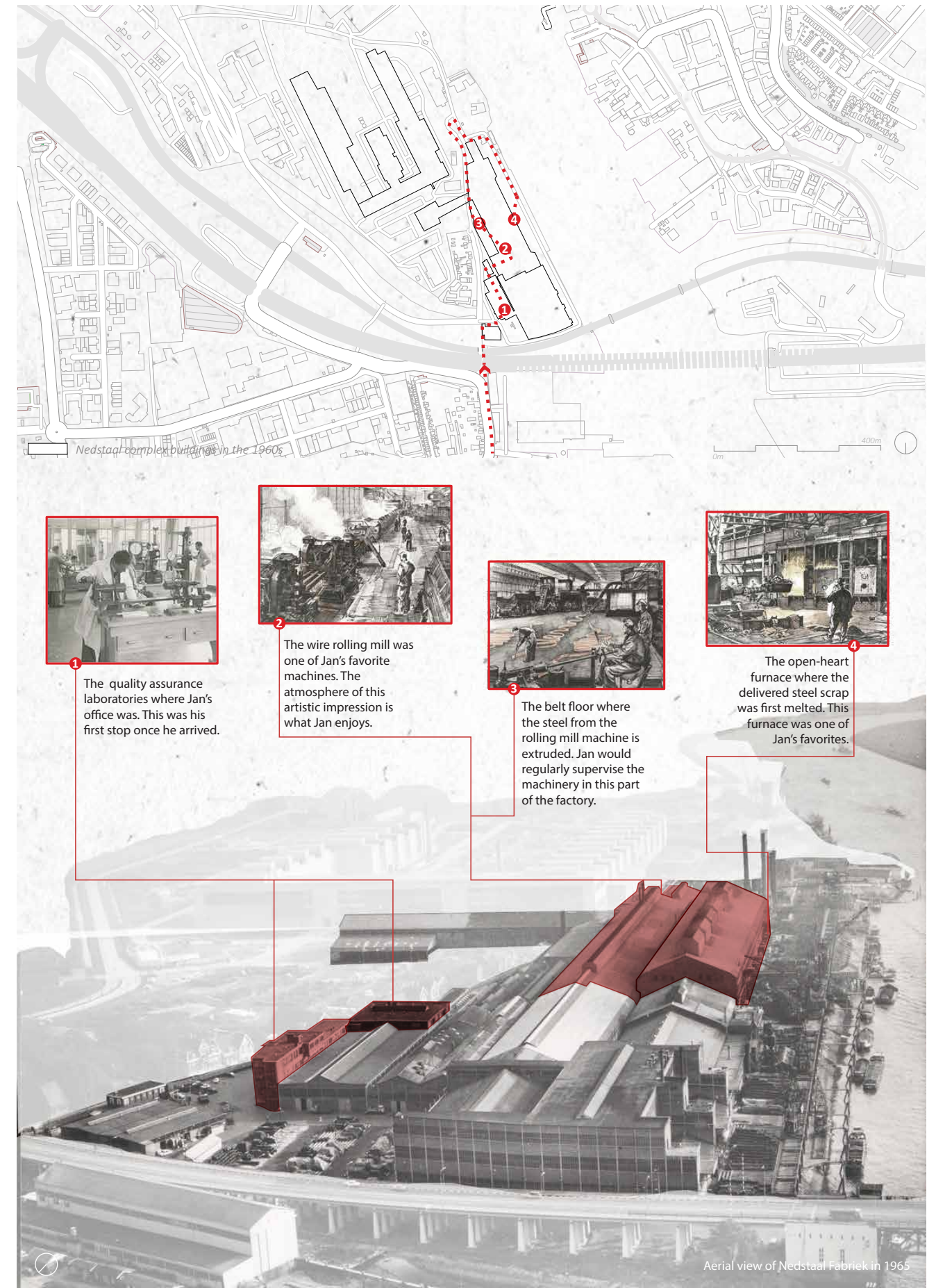
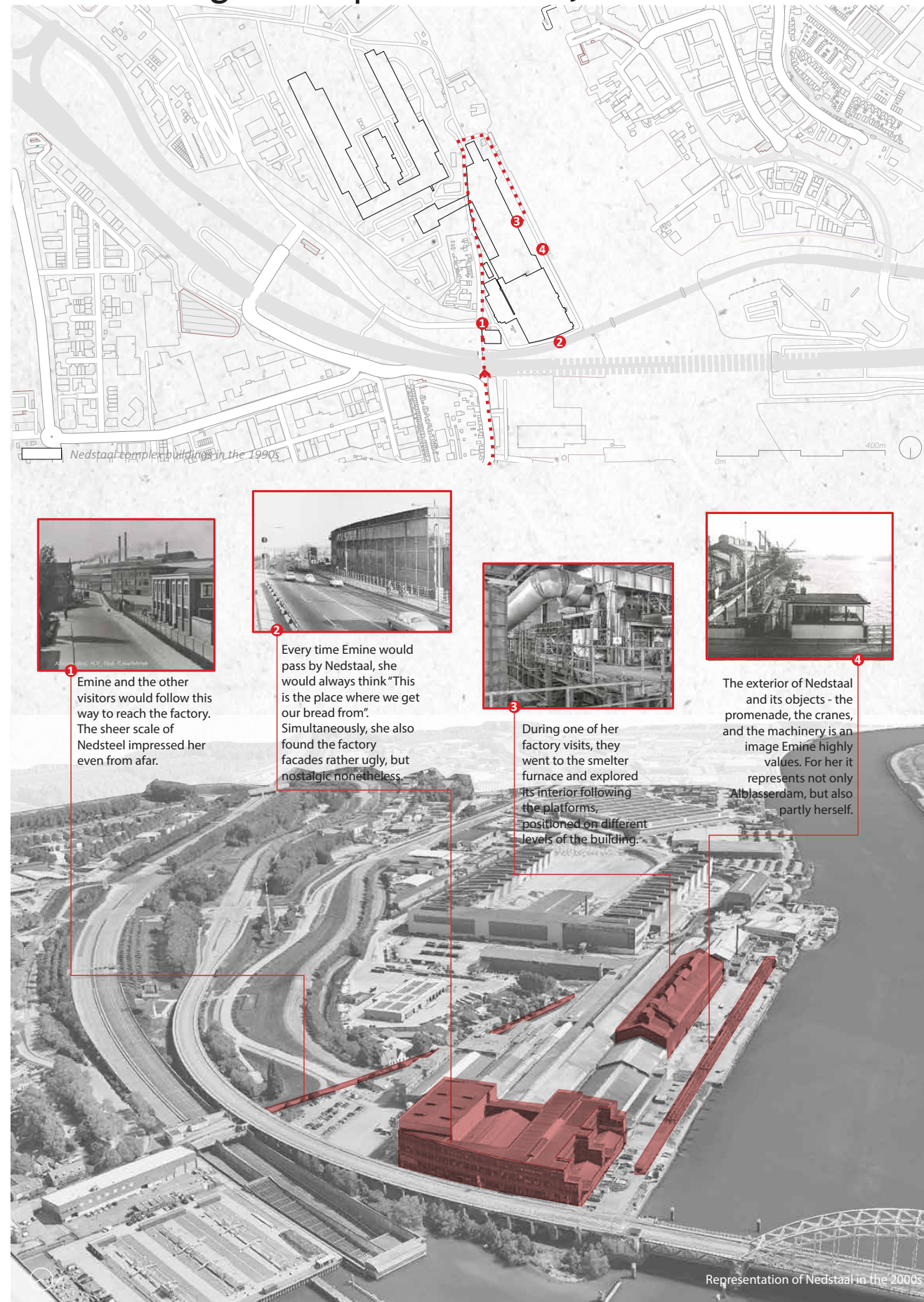
Nedstaal understood as a “time-shelter” of Alblasterdam’s industrial past and socio-cultural formation

How can the personal narratives about Nedstaal Fabriek identify its maritime industrial heritage values?

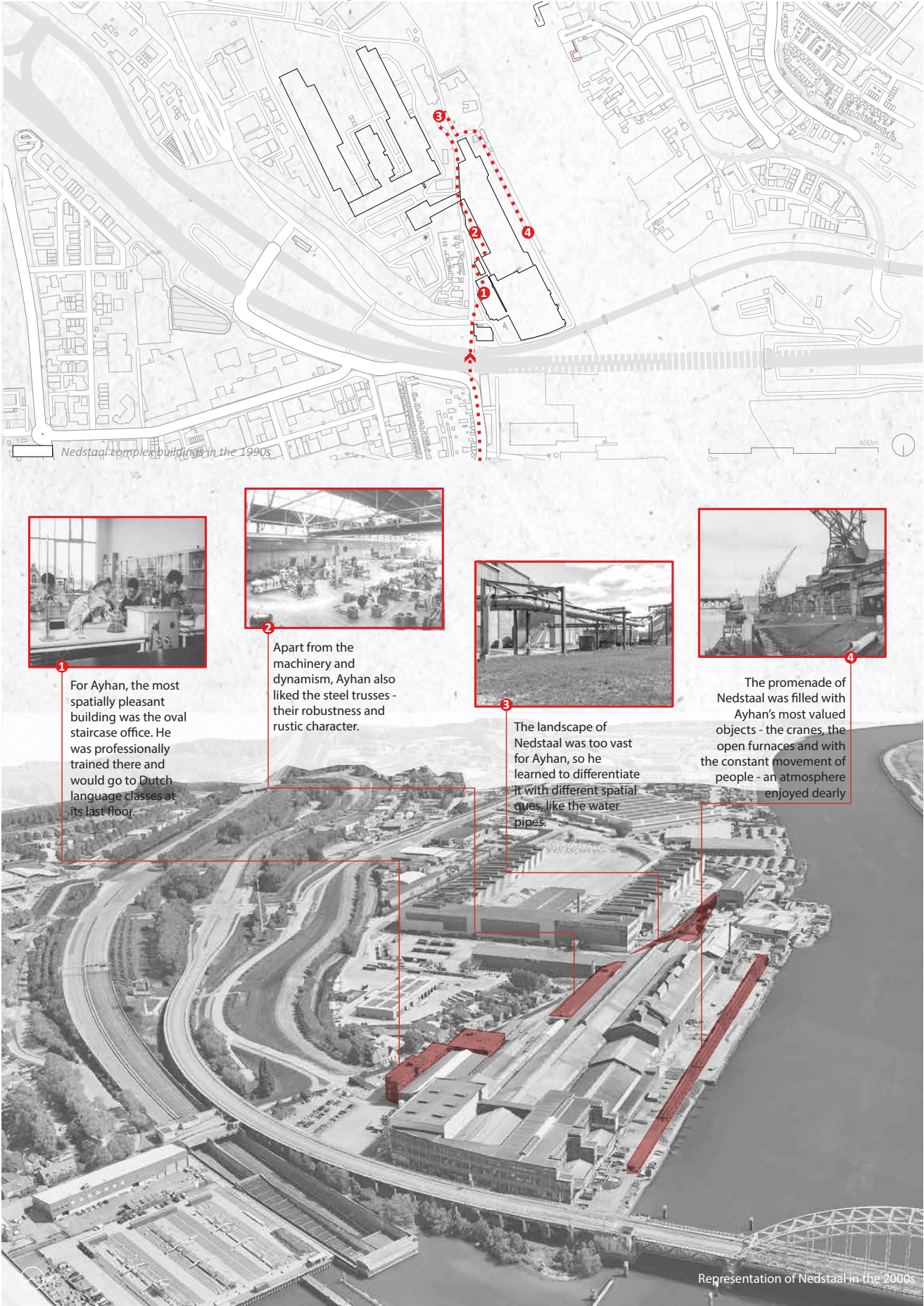
research question from a specifically conducted research for the graduation

Source: (Areal view of Nedstaal in Alblasterdam [photograph]. (1974). Regional Archive Dordrecht

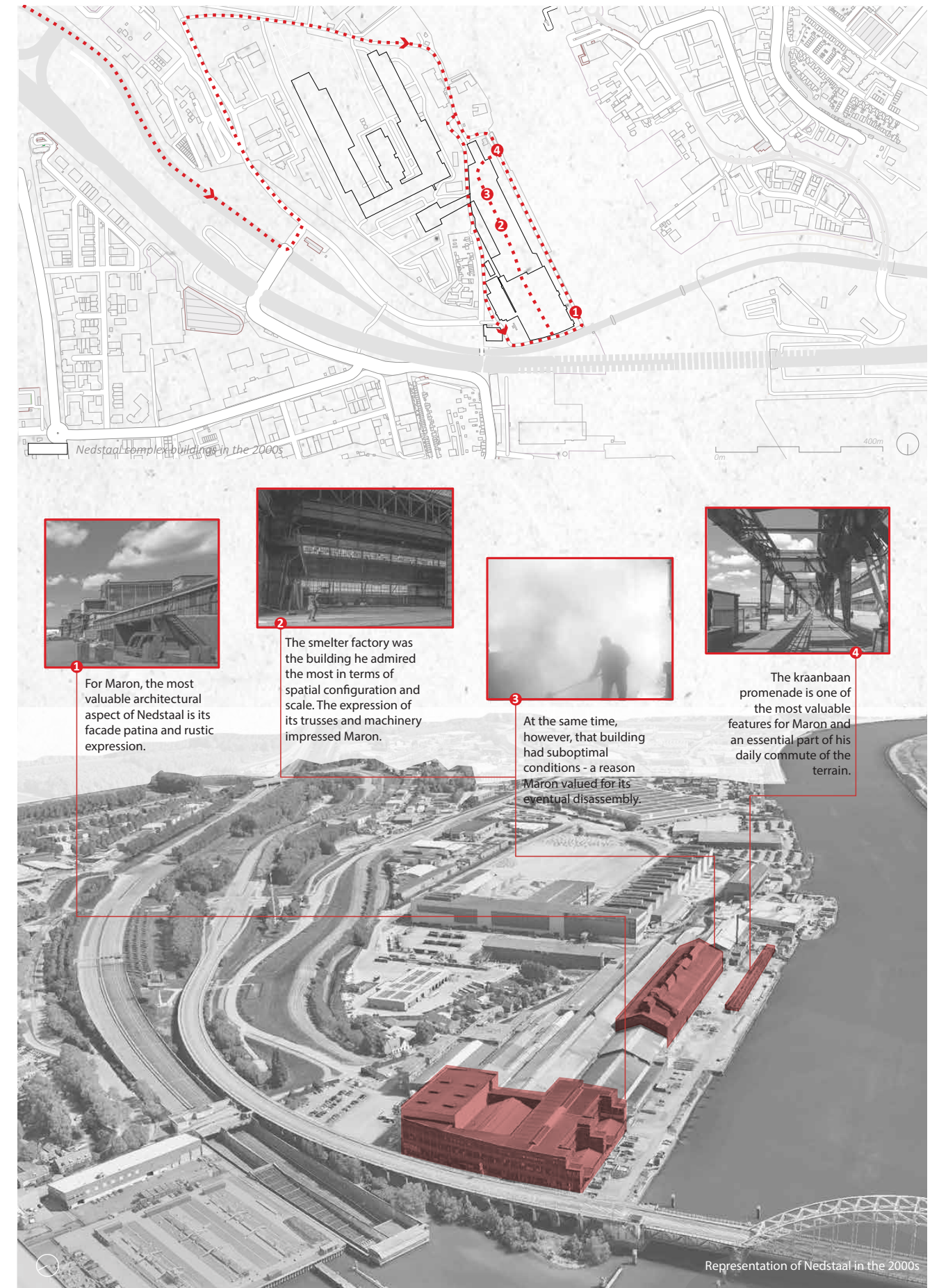
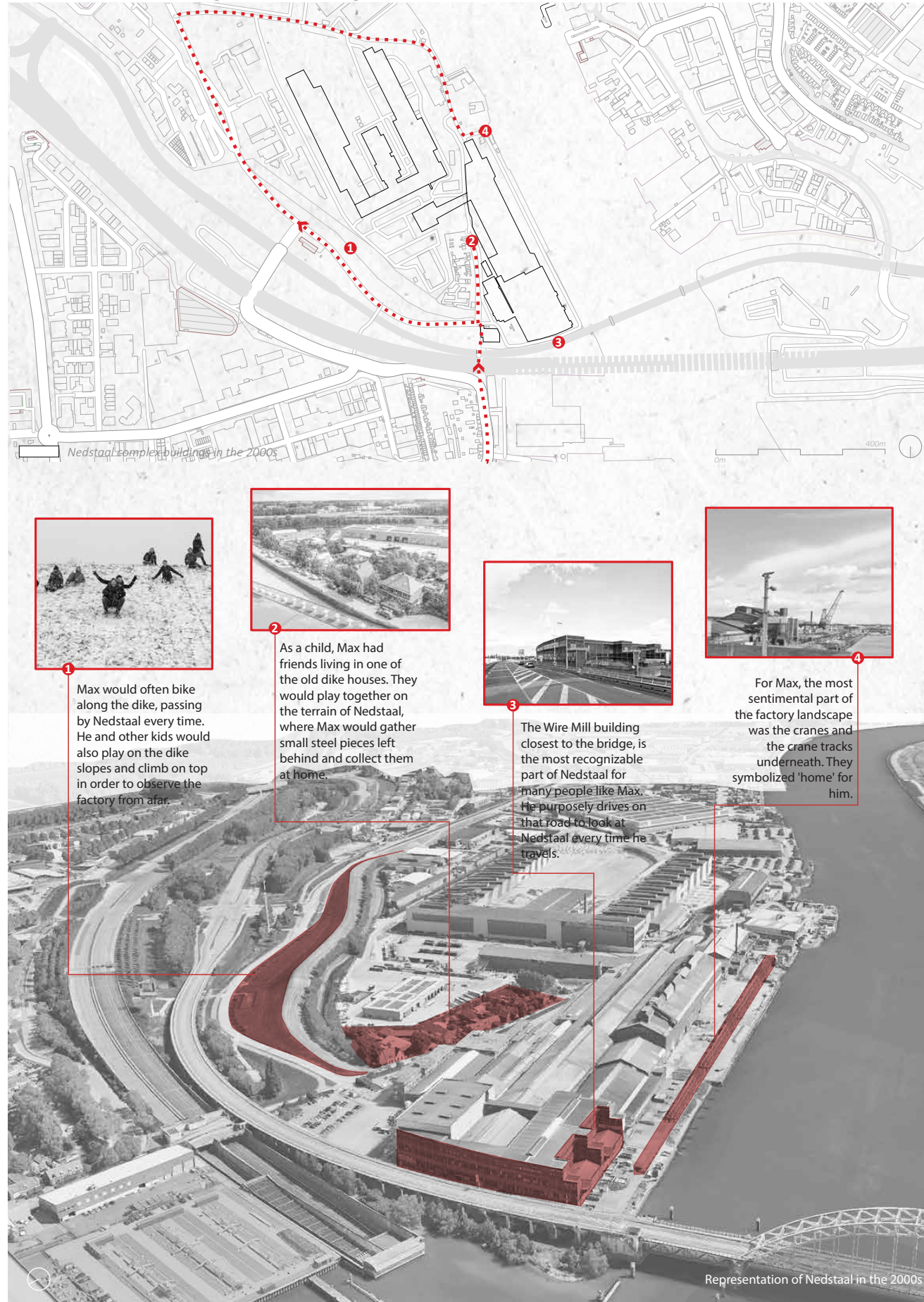
Narrative fragments | Oral history results



Narrative fragments | Oral history results



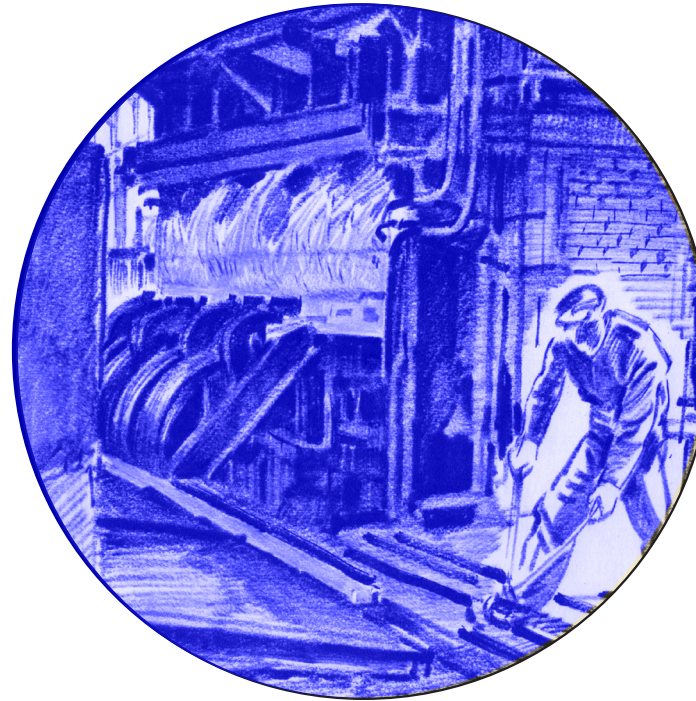
Narrative fragments | Oral history results



Narrative fragments | Oral history results



Landscape objects-
cranes, machinery,
crane tracks



Workers community Atmosphere



Machinery, installations, trusses, patina



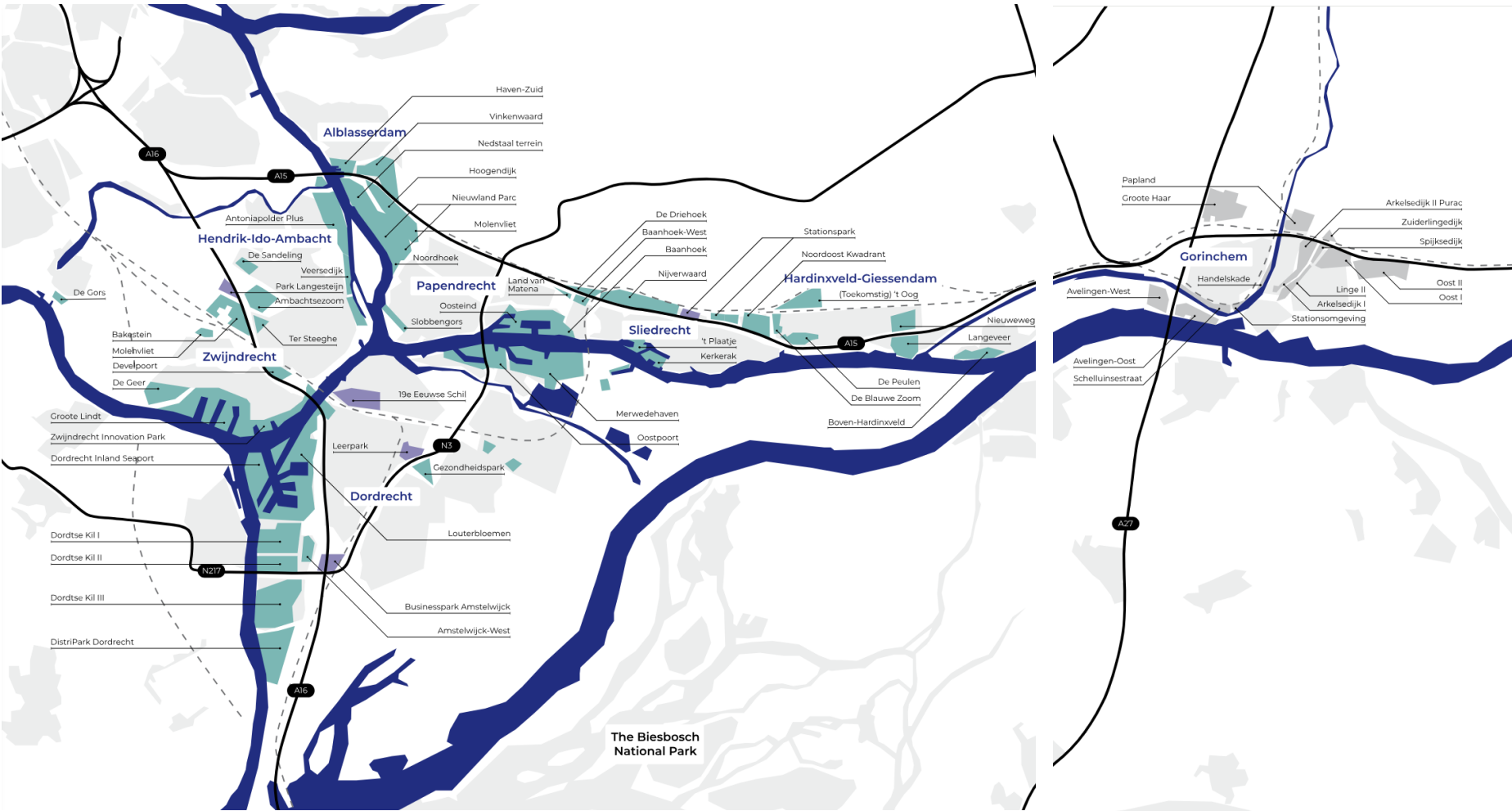
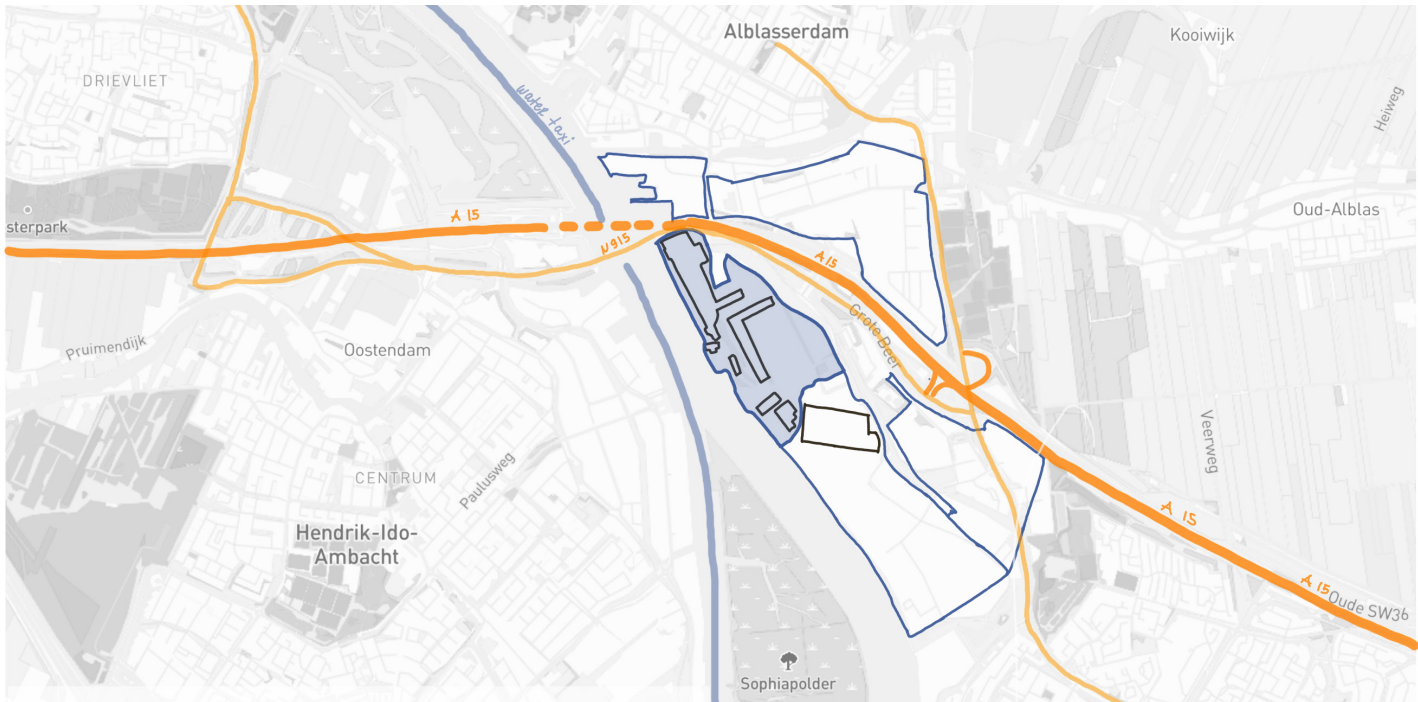
Process of steel making Landscape

Total evaluation matrix | Research + Site analysis

	Age	Historic	Art	Use	Newness	Rarity	Aesthetic
Context							
Site							
Skin							
Structure							
Plan							
Surfaces							
Services							
Stuff							
Story							

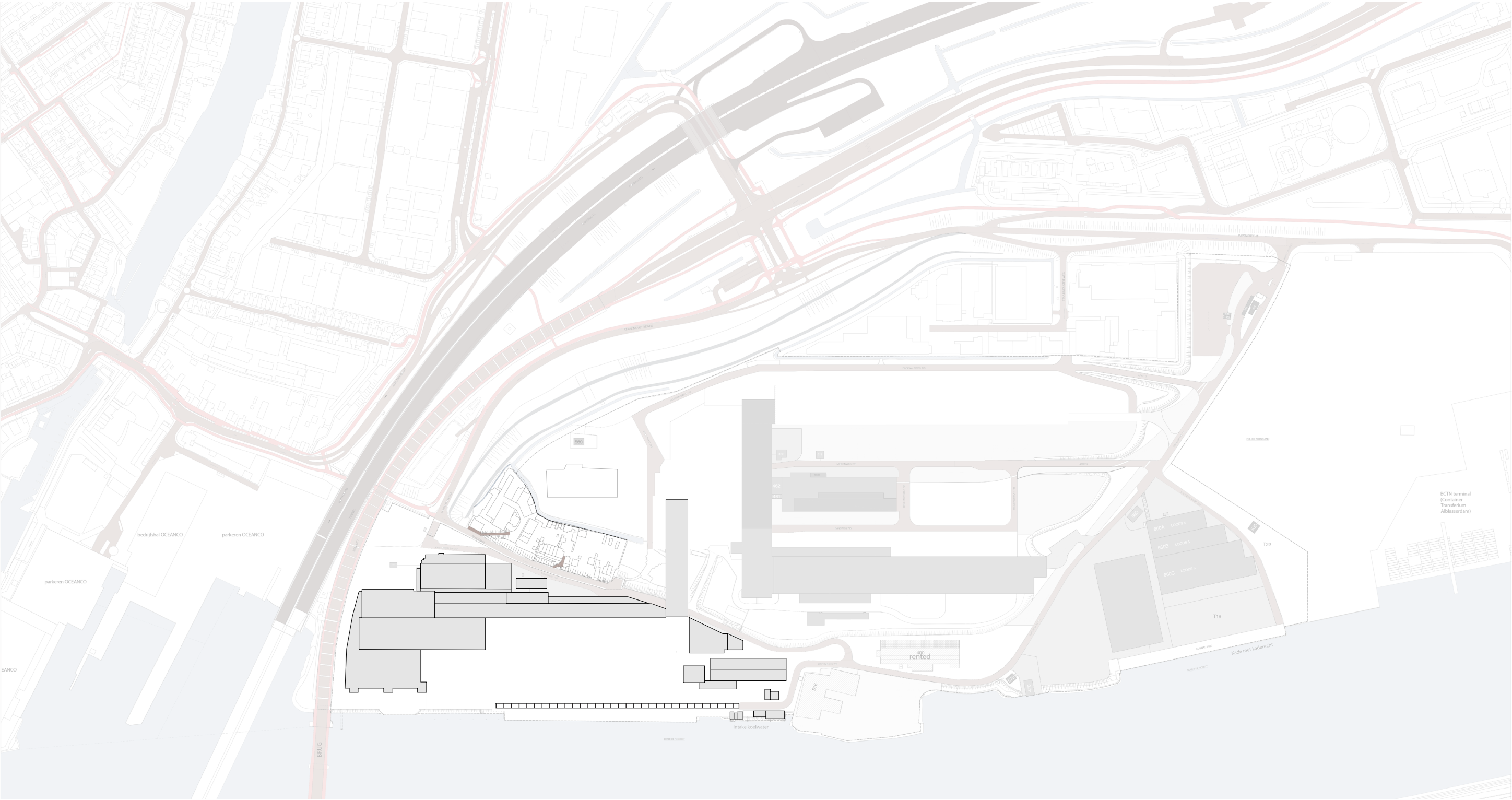
Highly valued Positively valued Least valued

Economical importance | future demand

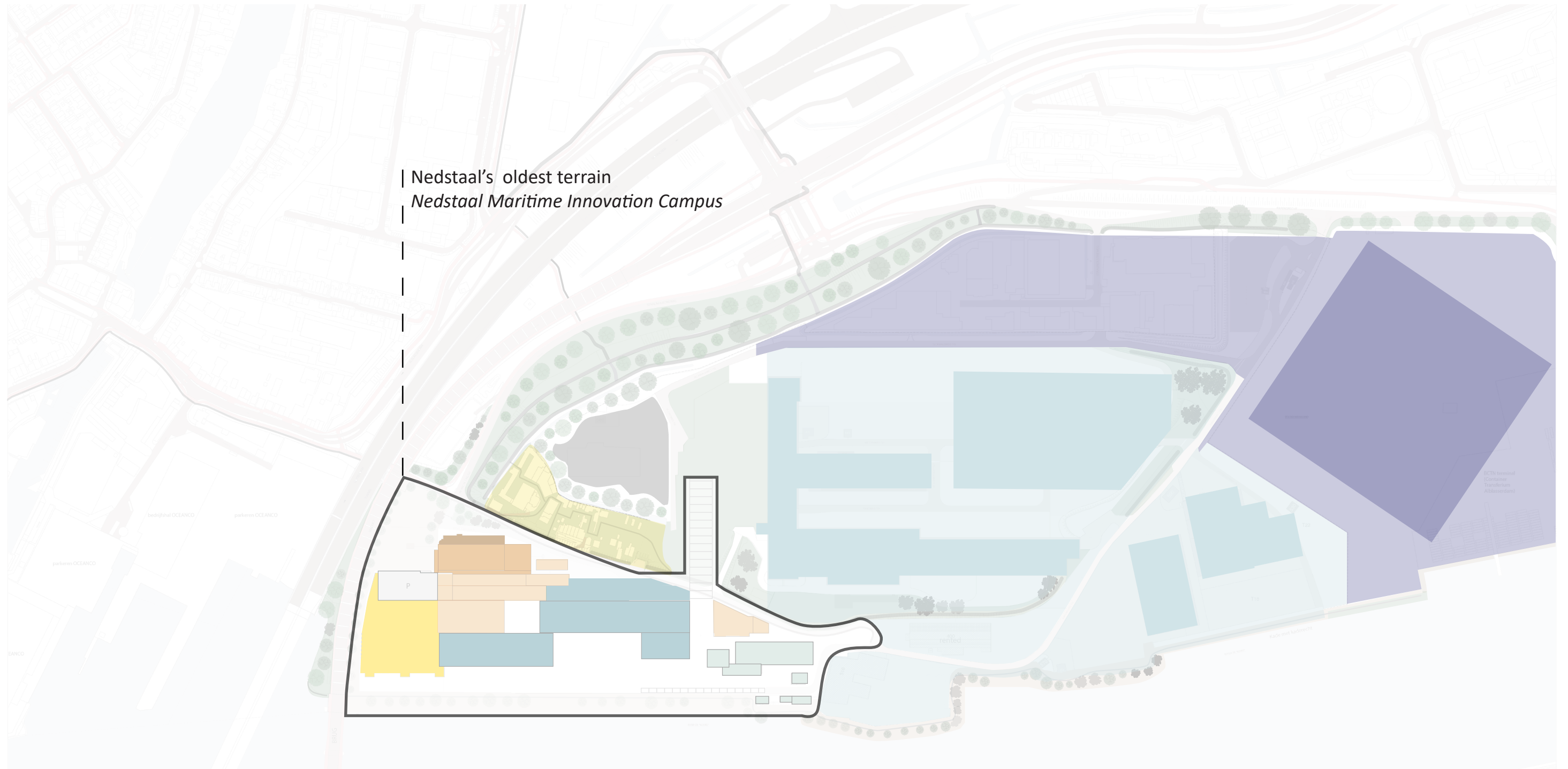











Maps source: (Kaarten | Environmental Health Atlas, 2025)

Nedstaal terrain | Current situation



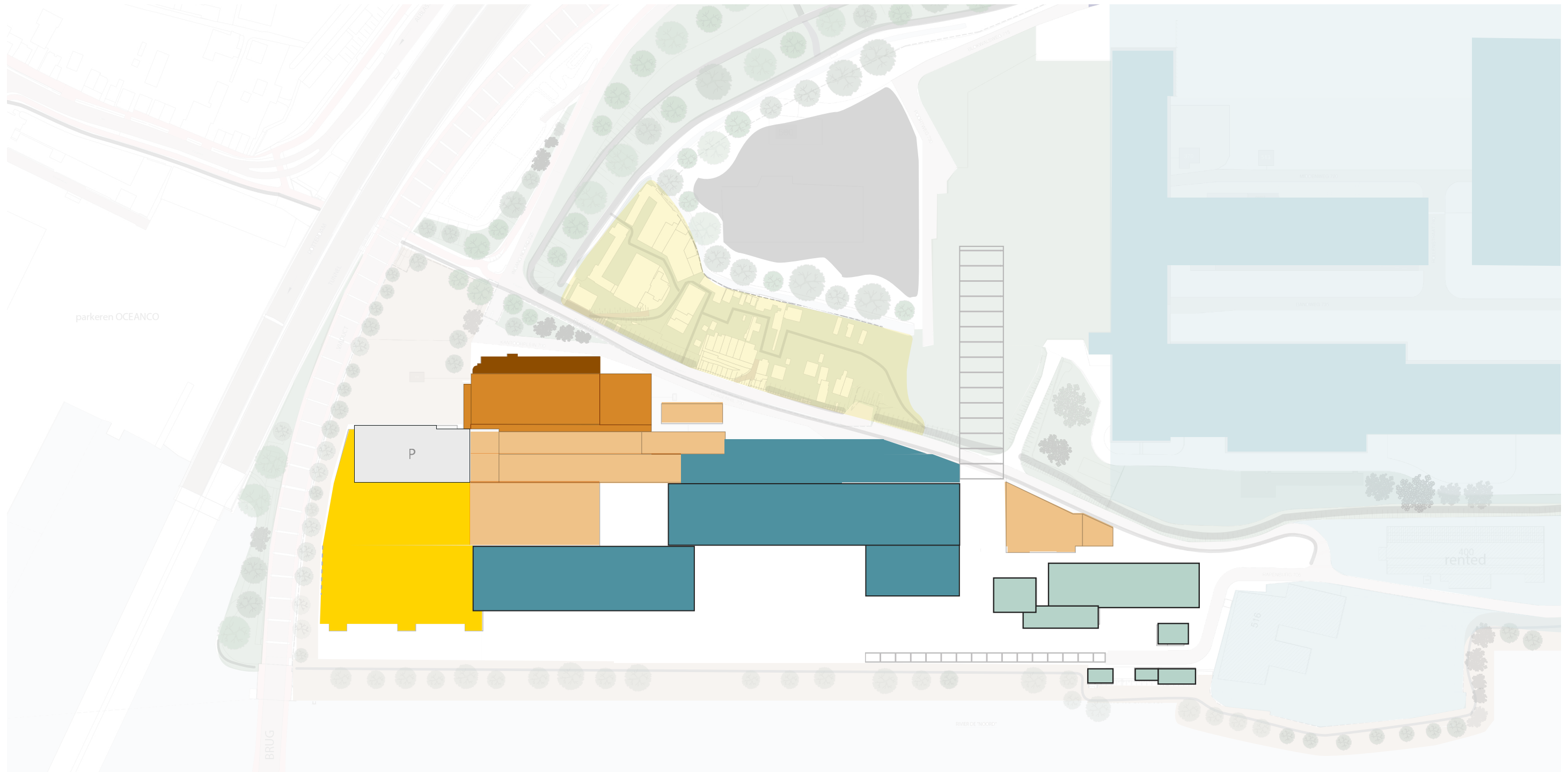
“Nedstaal Maritime Innovation Campus” | Function zoning












- | | | | | | |
|---|--|---|---|---|---|
|  | Industrial zone -category 4 |  | Manufacturing zone -mid-scale / cat. 2 |  | Commercial /food, leisure/ |
|  | Industrial zone -category 3 |  | Historic dijkpark shopping village |  | Nedstaal startup campus - mixed-use office, workshop and venue spaces for the maritime technological enterprises of the Drechtsteden region |
|  | Industrial zone - vehicles storage |  | Practical training and educational facilities for the maritime industry | | |
|  | Manufacturing zone -small-scale / cat. 1 | | | | |



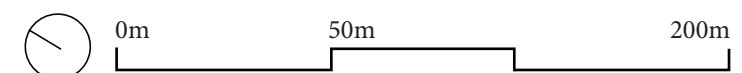
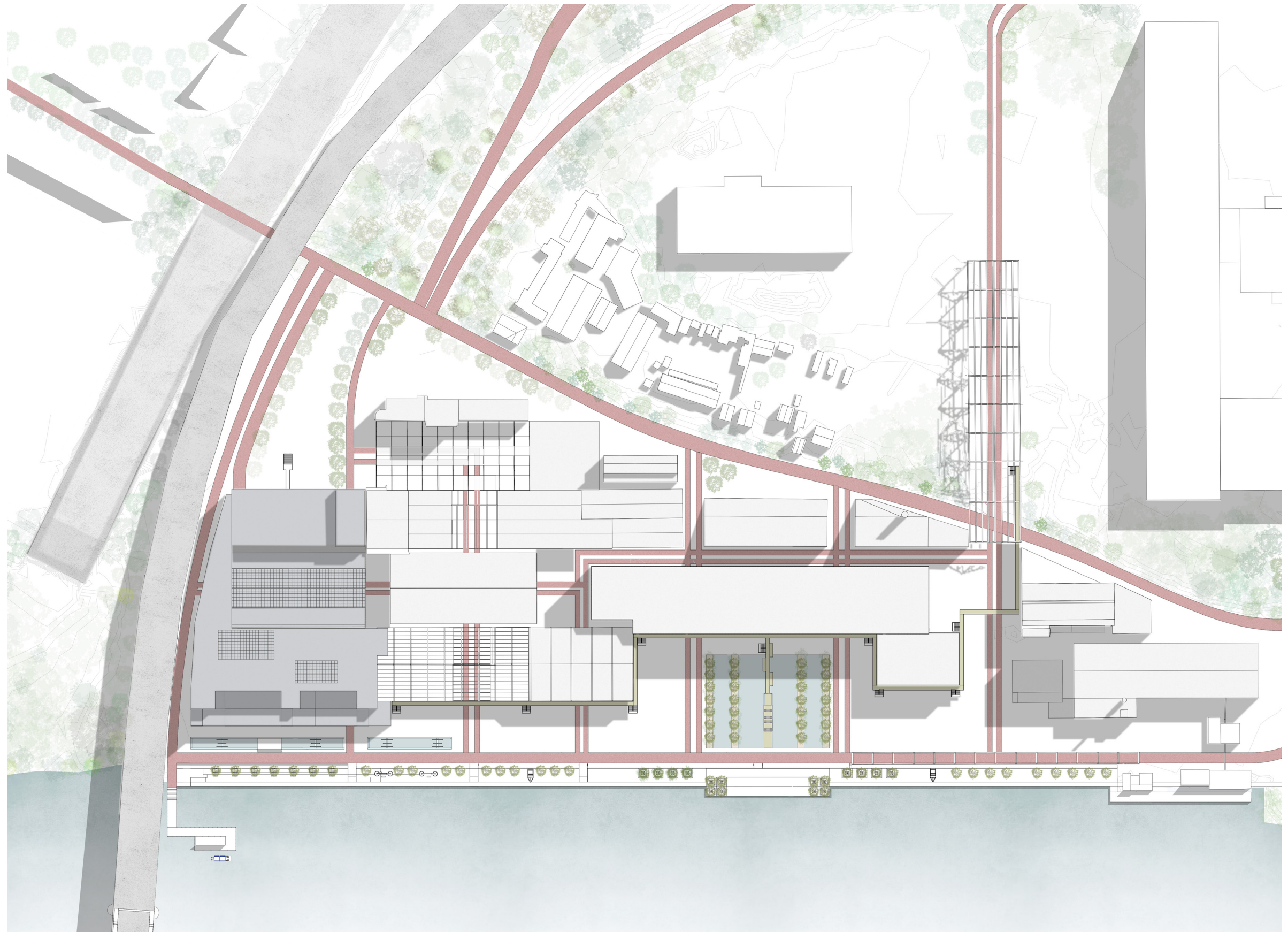
“Nedstaal Maritime Innovation Campus” | Function zoning



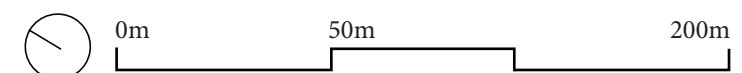
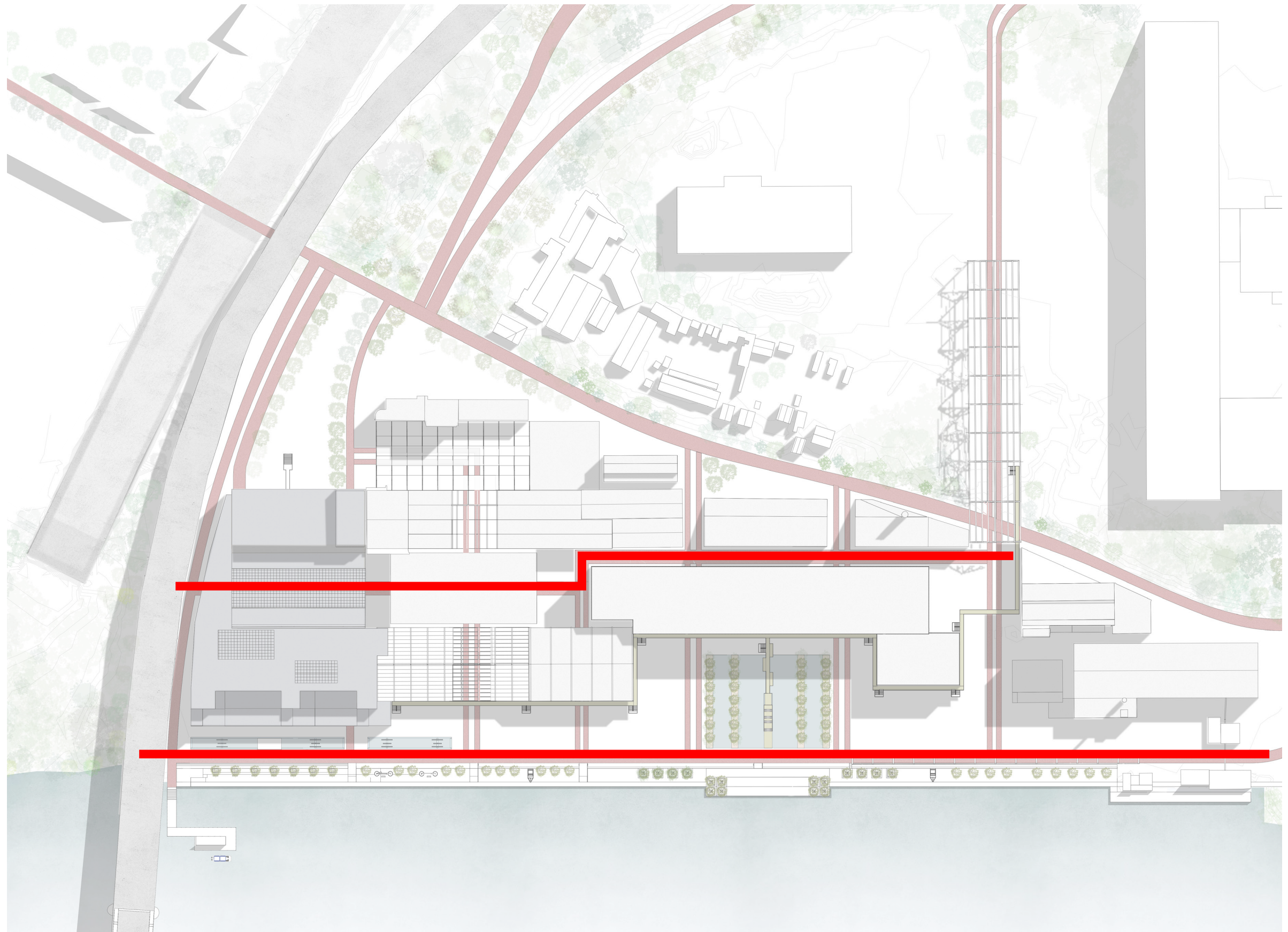
- | | | | | | |
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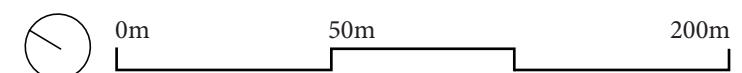
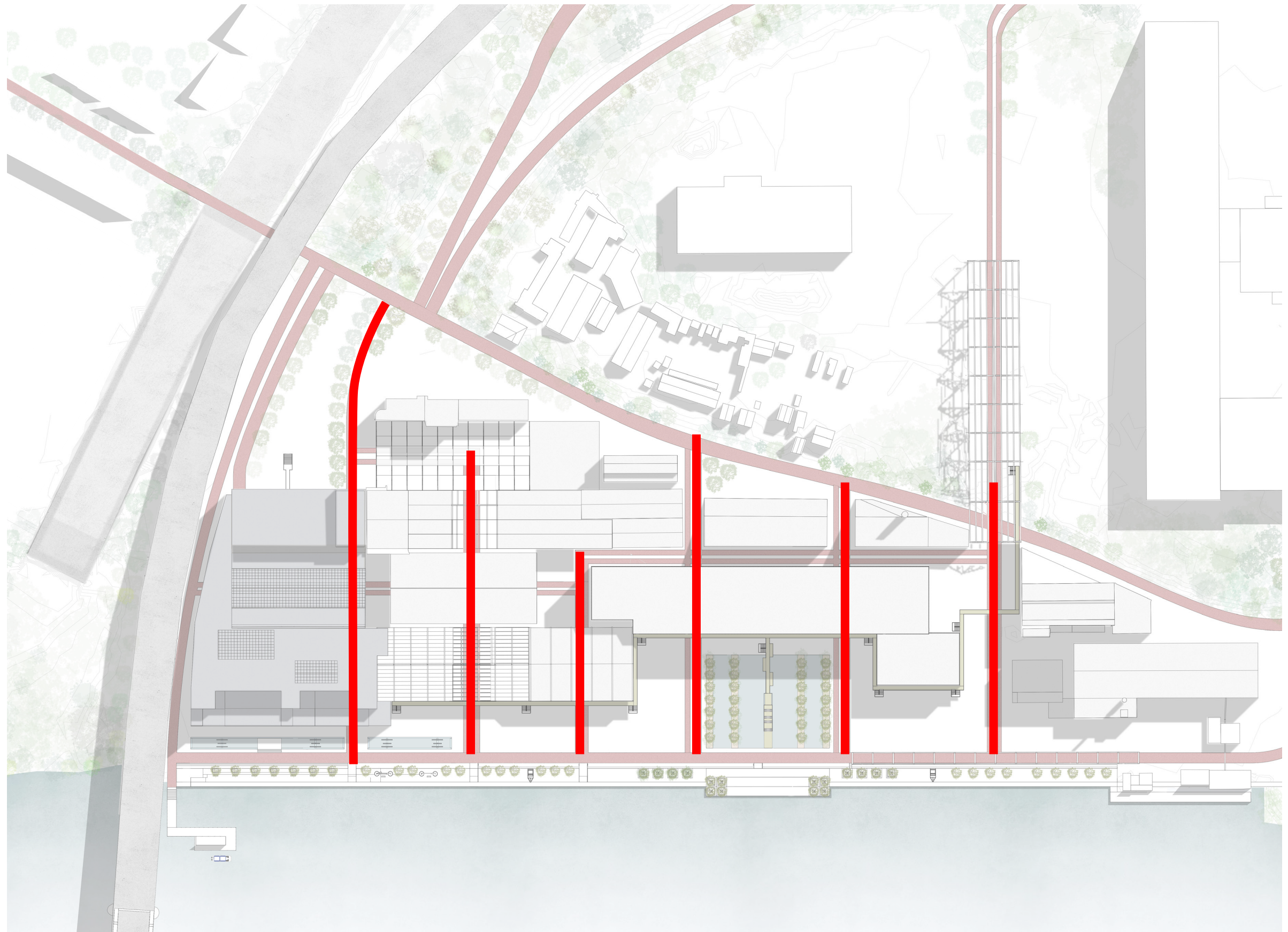
“Nedstaal Maritime Innovation Campus” | Site Plan



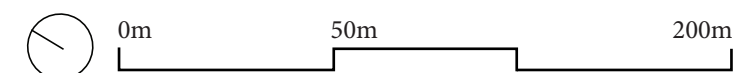
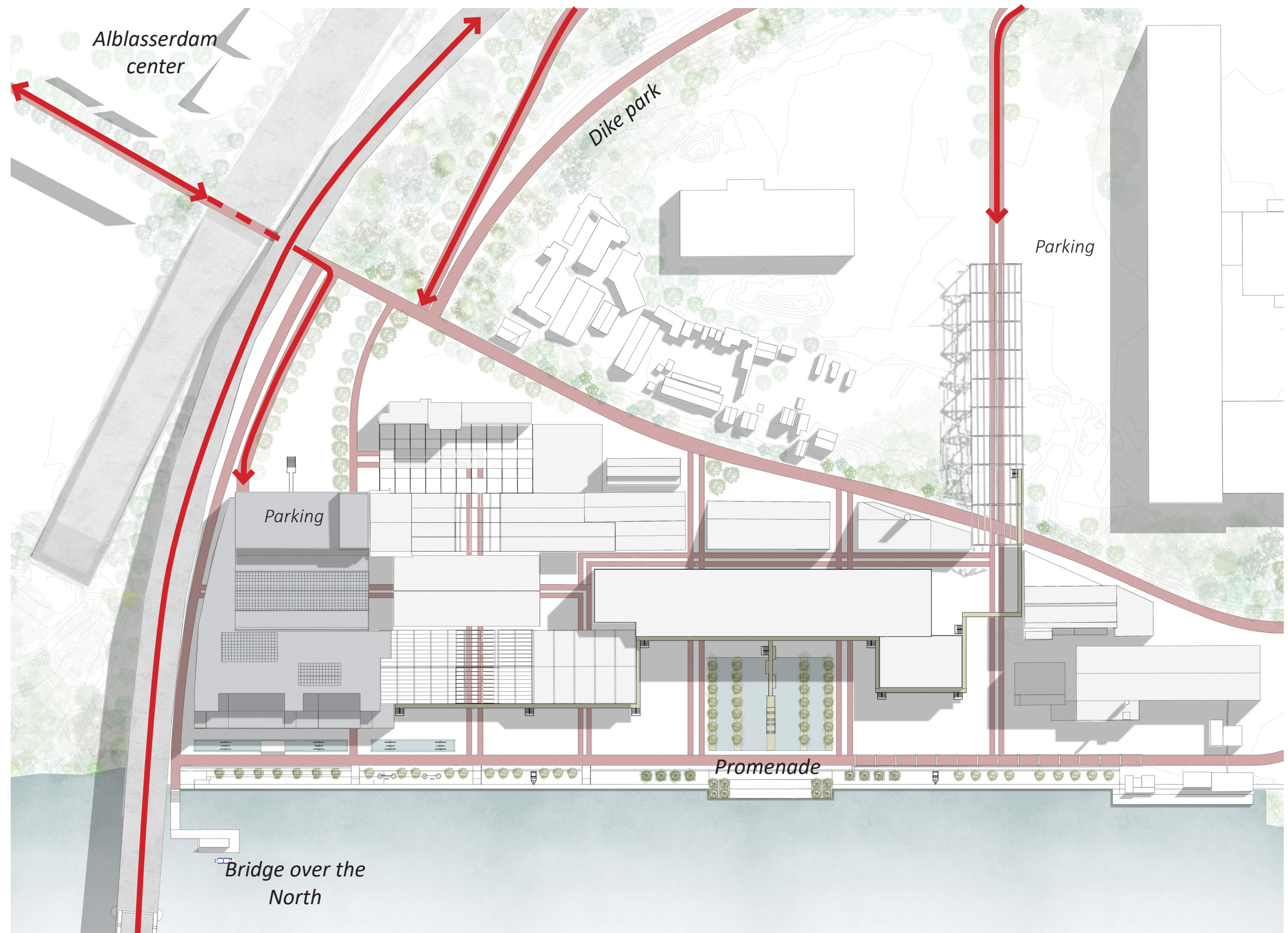
“Nedstaal Maritime Innovation Campus” | Site Plan: main axes



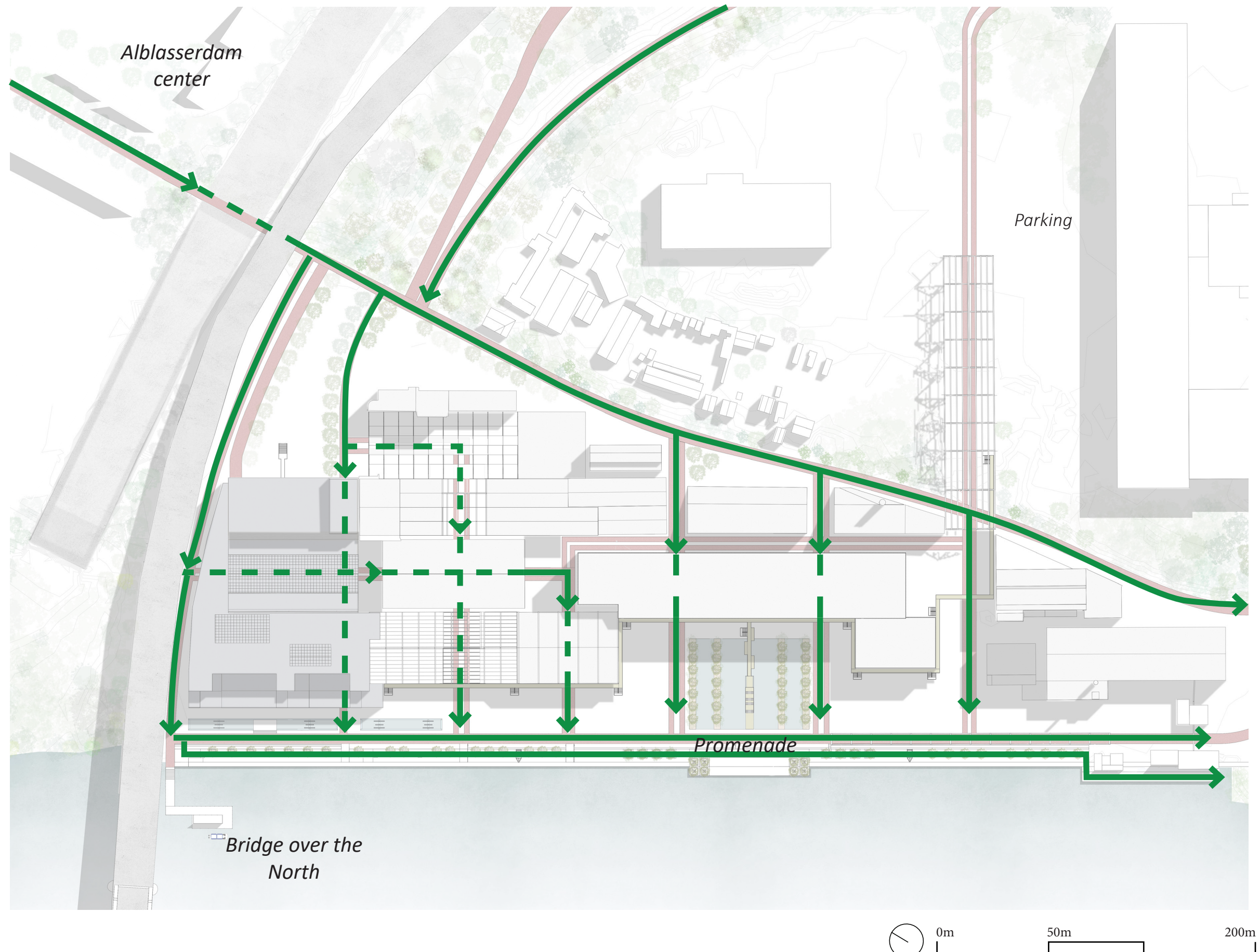
“Nedstaal Maritime Innovation Campus” | Site Plan: main axes



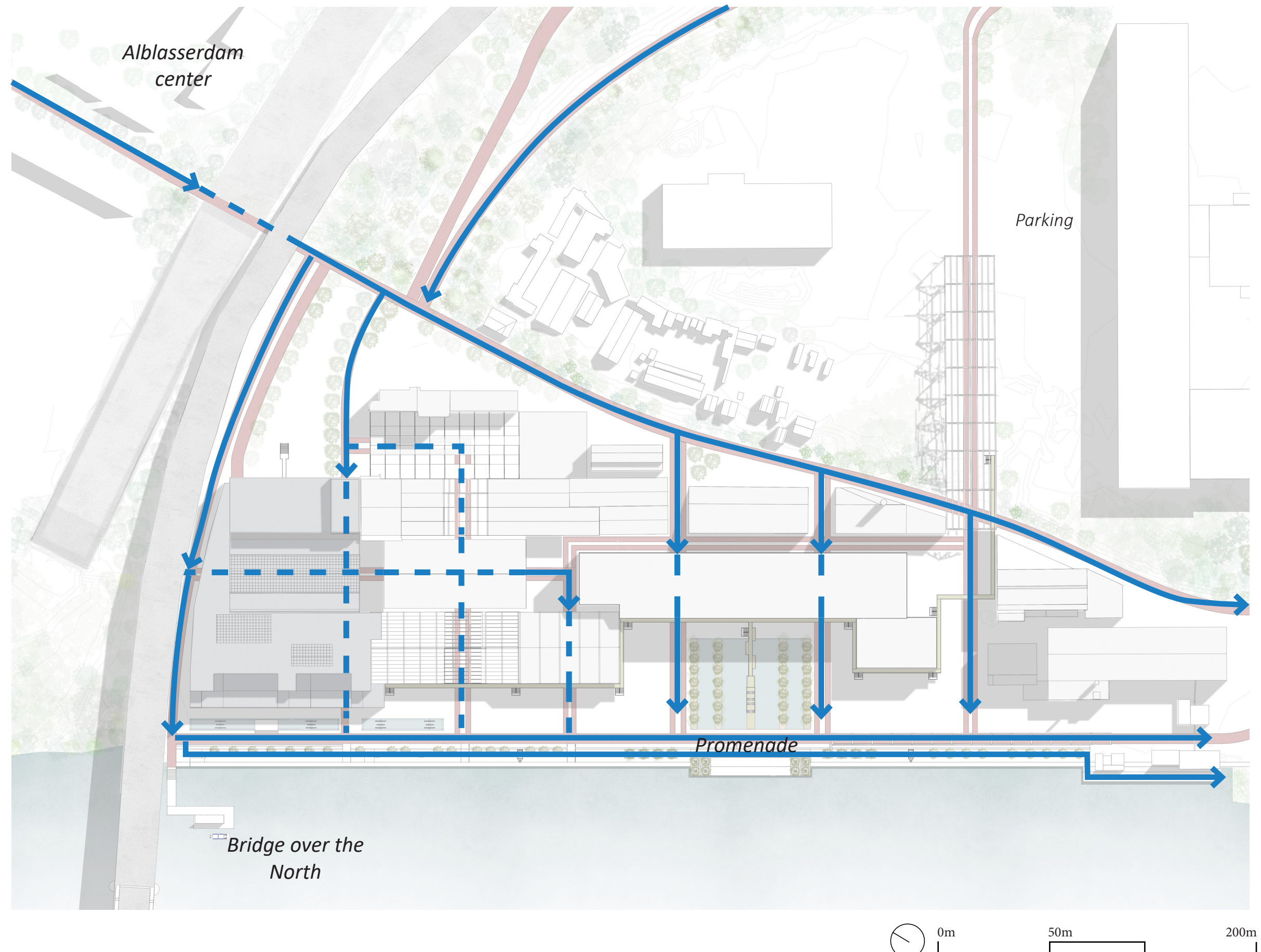
“Nedstaal Maritime Innovation Campus” | Car routing



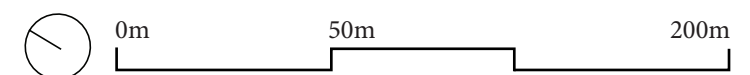
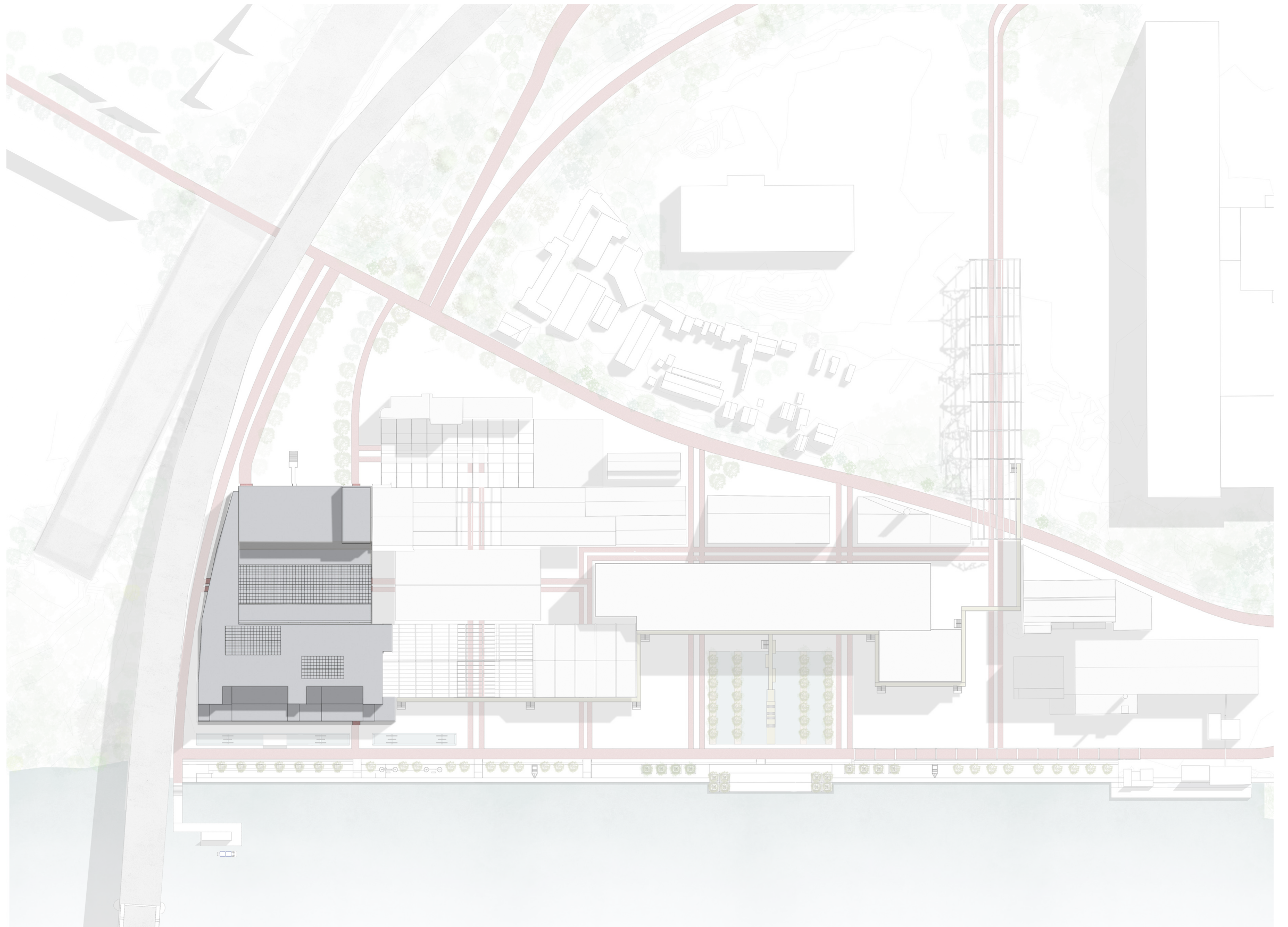
“Nedstaal Maritime Innovation Campus” | Bike routing



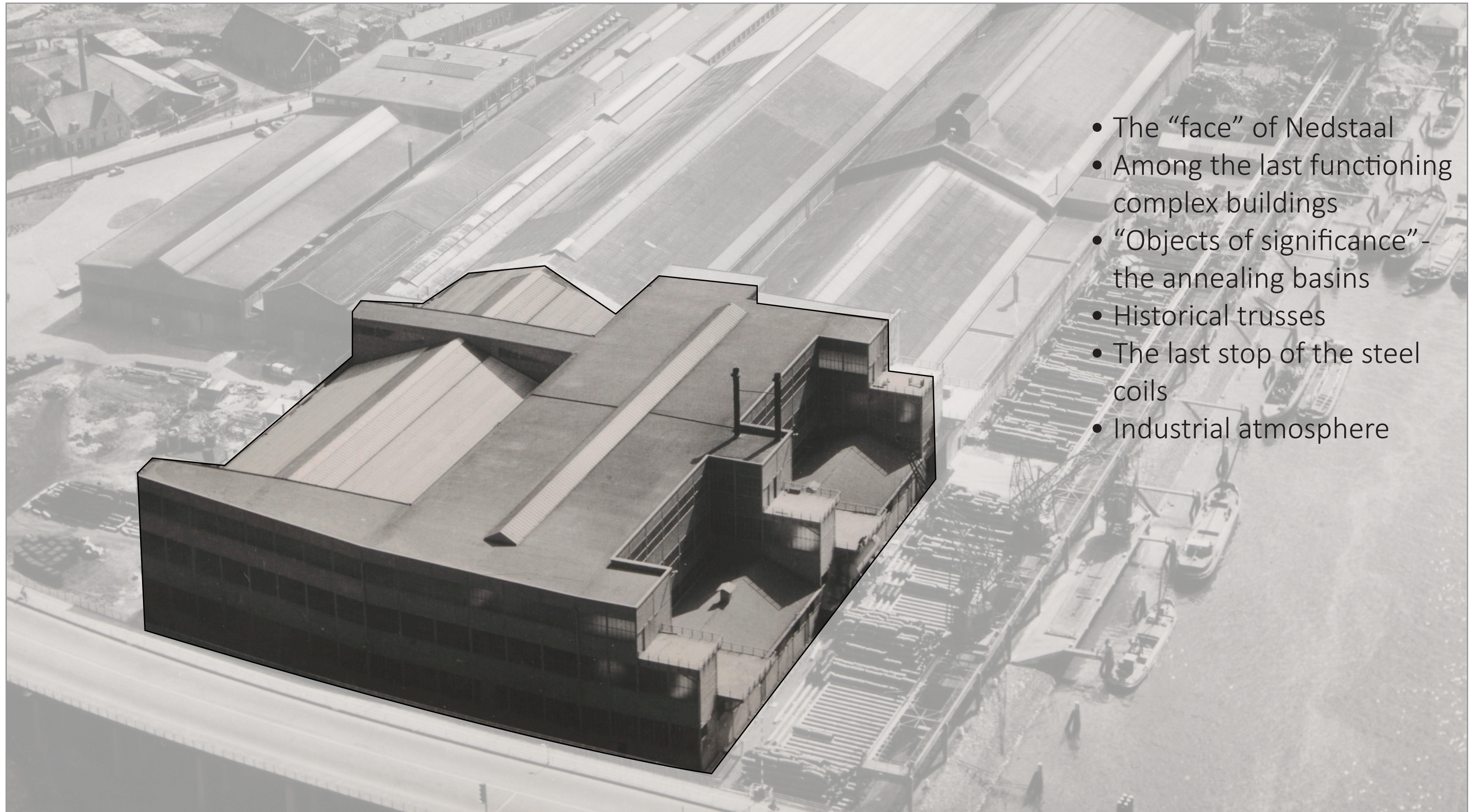
“Nedstaal Maritime Innovation Campus” | Pedestrian routing



“Nedstaal Maritime Innovation Campus” | Focusing on the former annealing department



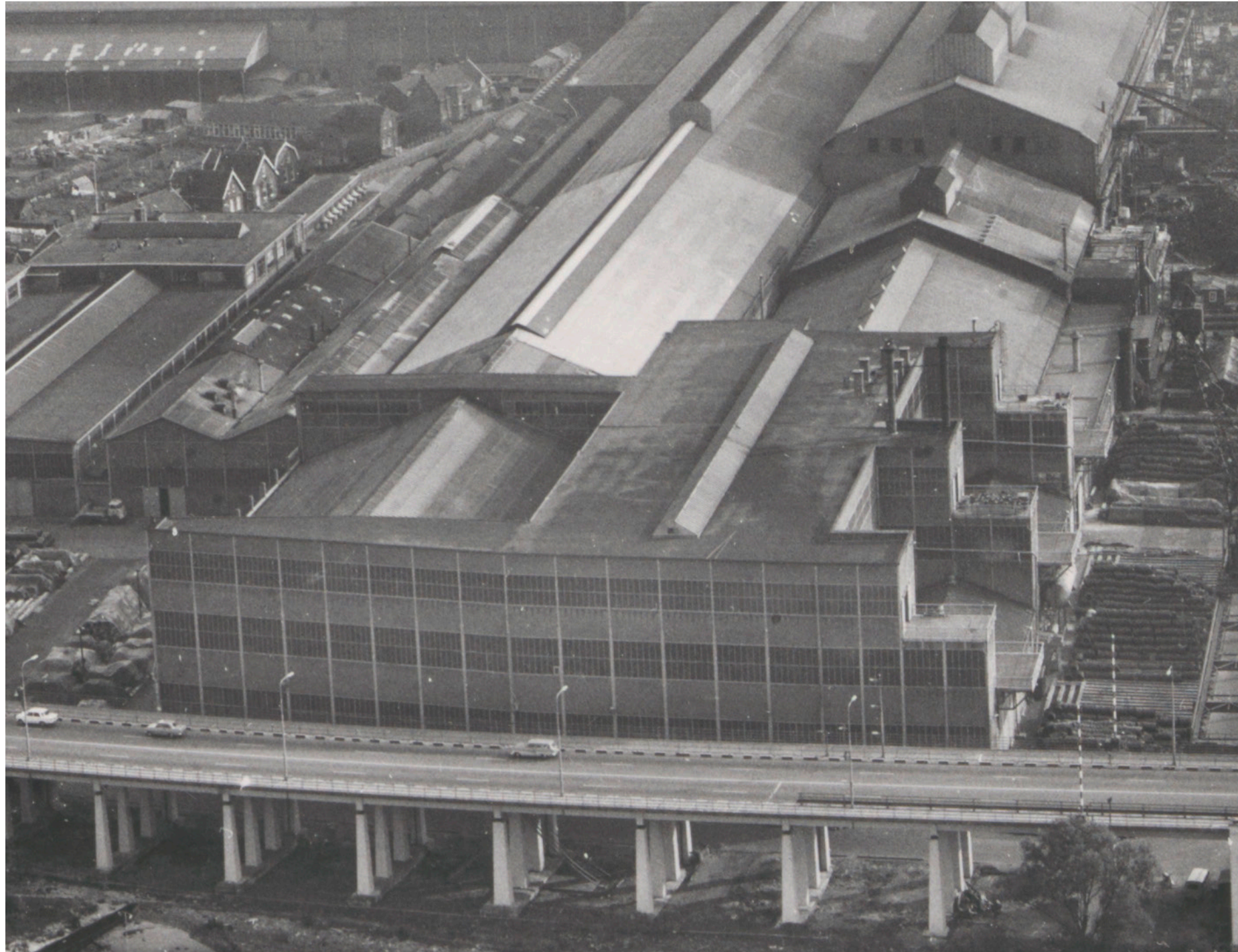
“Nedstaal Maritime Innovation Campus” | Focusing on the former annealing department



- The “face” of Nedstaal
- Among the last functioning complex buildings
- “Objects of significance” - the annealing basins
- Historical trusses
- The last stop of the steel coils
- Industrial atmosphere

Source: (Areal view of Nedstaal in Alblasserdam [photograph]. (1974). Regional Archive Dordrecht.)

The public “face” of Nedstaal



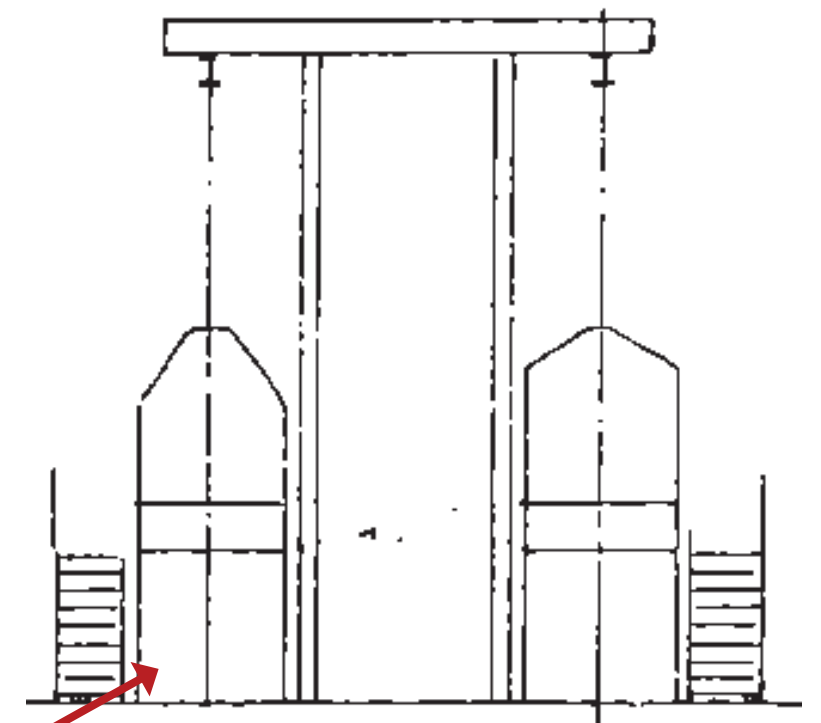
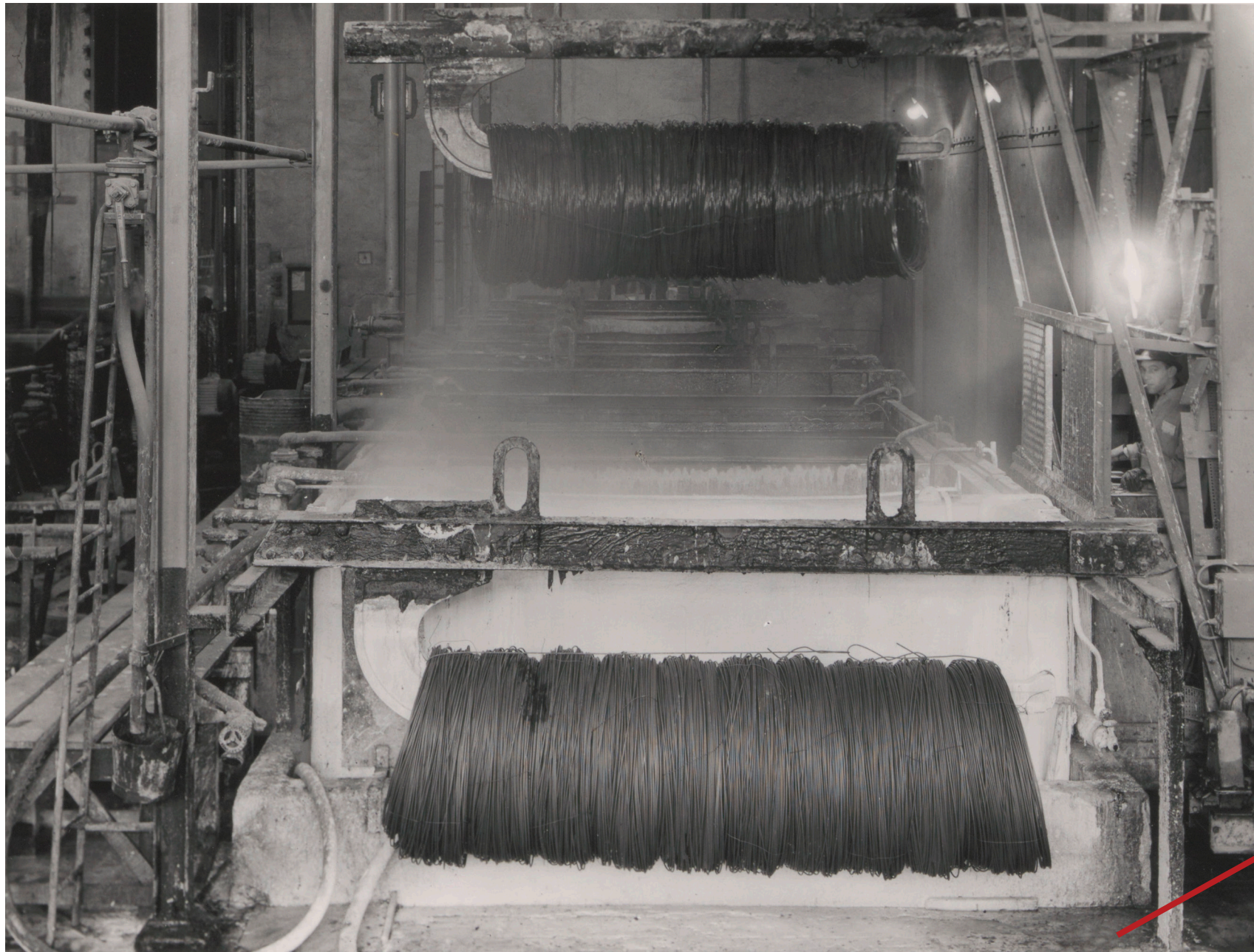
Source: (Areal view of Nedstaal in Alblasterdam [photograph]. (1974). Regional Archive Dordrecht.)

Storage hall for wire rods in the annealing department



Image source: (Storage hall for wire: Nedstaal in Alblasserdam [photograph]. (1965-1974). Regional Archive Dordrecht.)

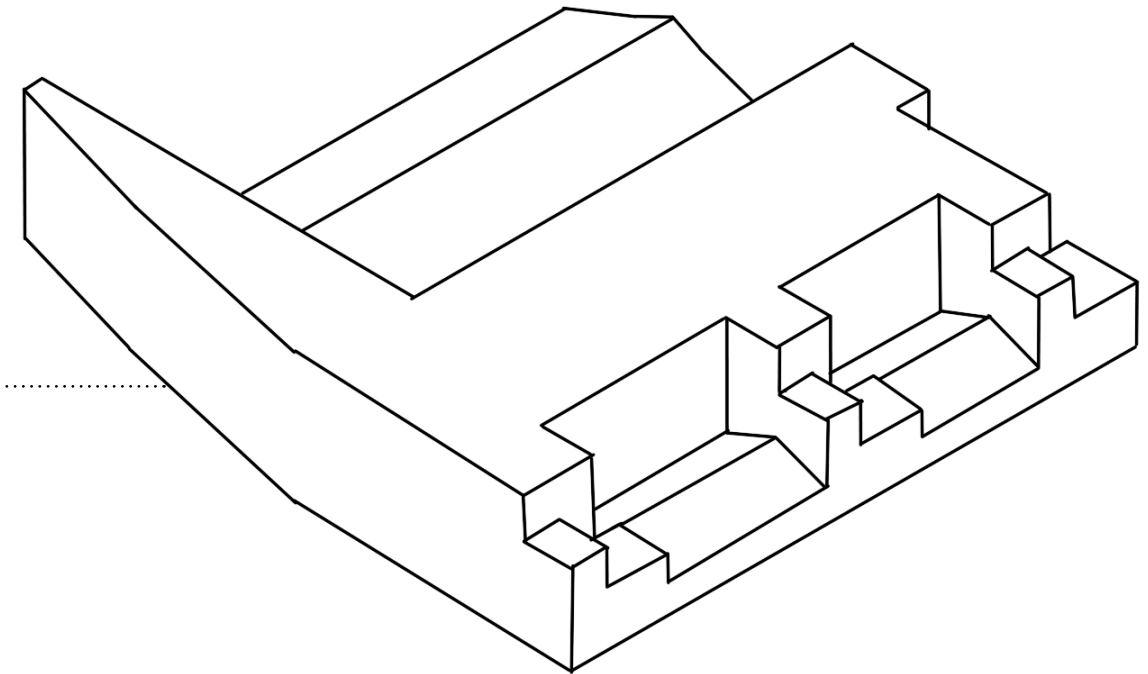
“The objects” of Nedstaal - the coil wire annealing basins



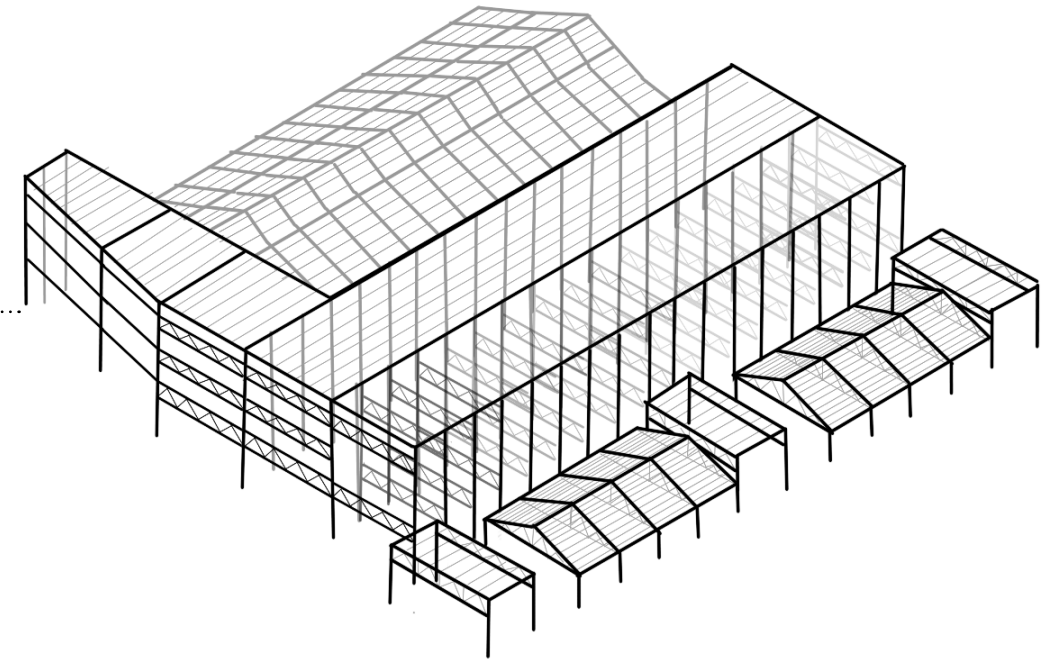
Maps source: (Annealing department Nedstaal in Alblasserdam [photograph]. (1965-1974). Regional Archive Dordrecht.)

“Nedstaal Maritime Innovation Campus” | Adaptive approach

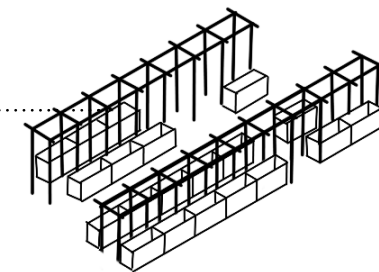
The shell



The skeleton



The object



“Nedstaal Maritime Innovation Campus” | Adaptive approach

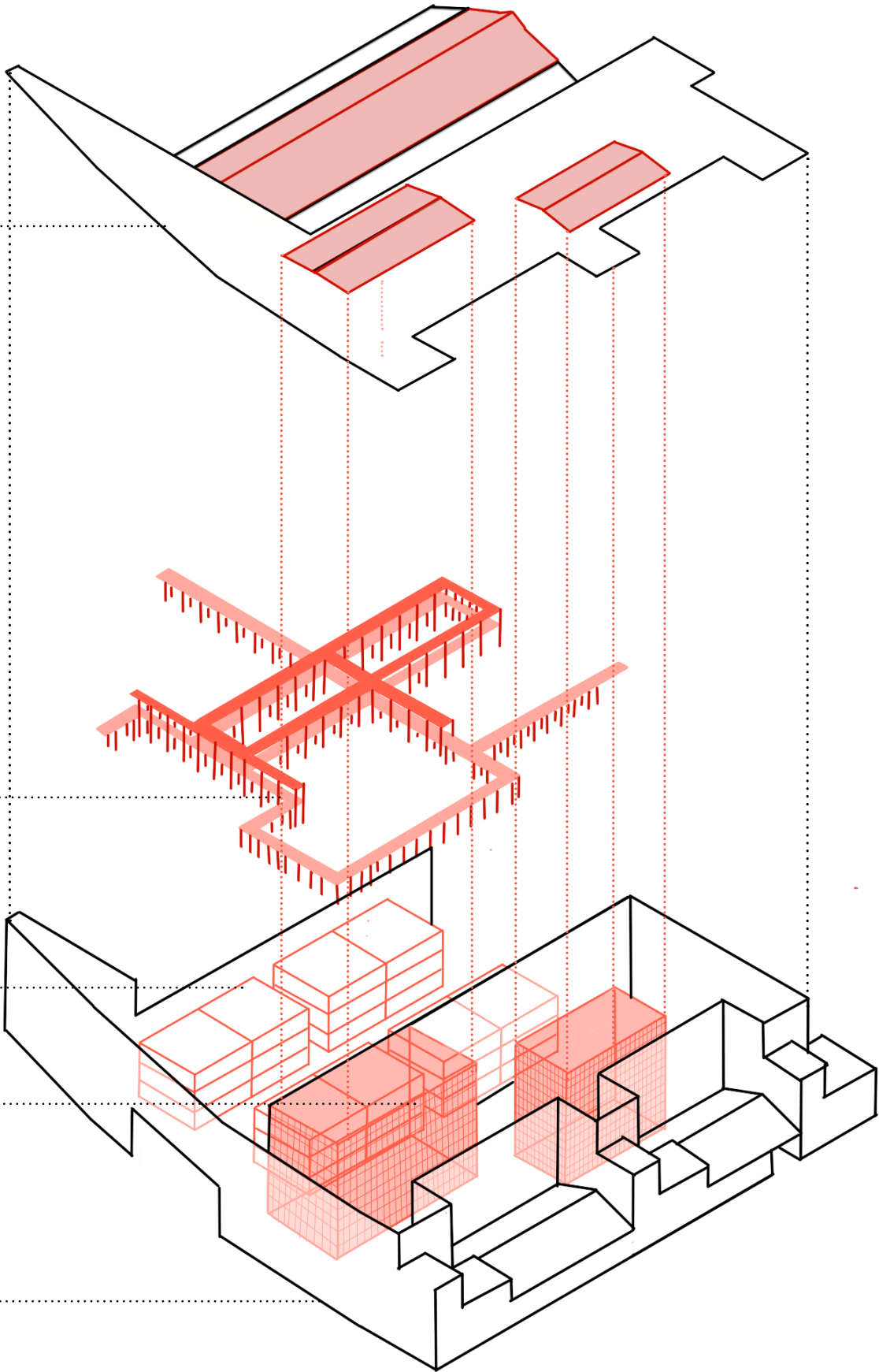
The existing shell

connecting spine- steel galleries

Startup cubicles

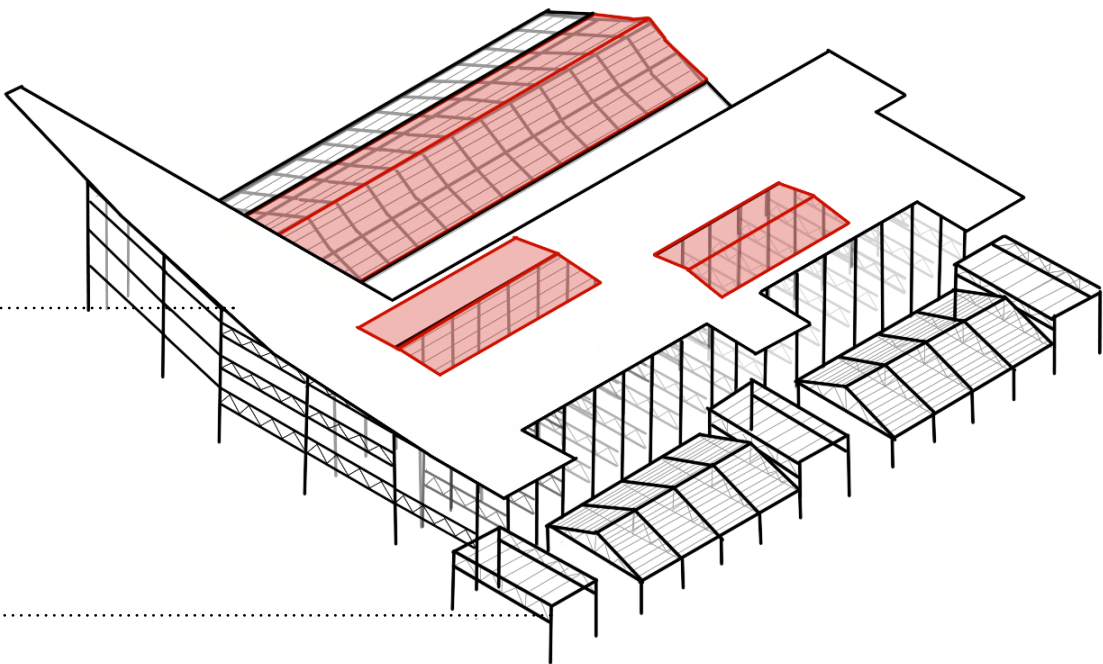
Workshop atriums

The existing shell

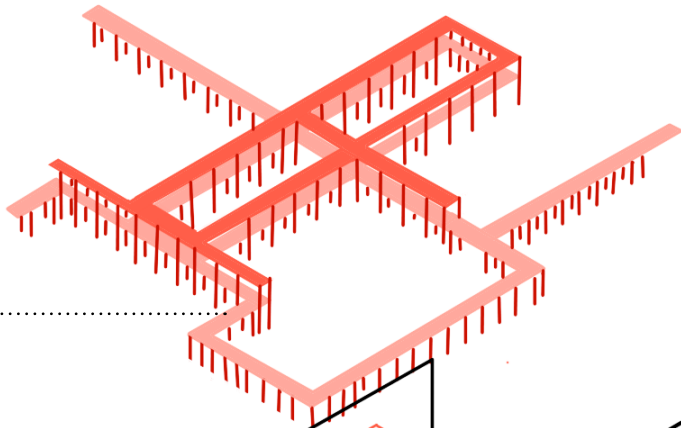


“Nedstaal Maritime Innovation Campus” | Adaptive approach

The existing shell



The skeleton



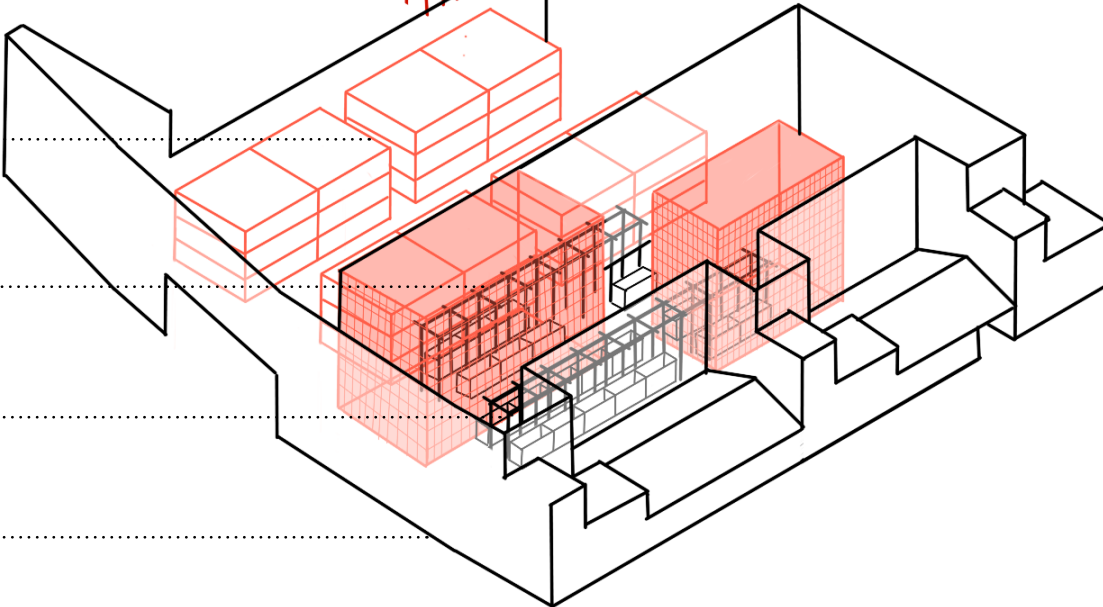
connecting spine- steel galleries

Startup cubicles

Workshop atriums

The object

The existing shell



Newly added



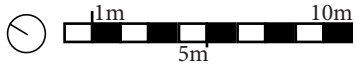
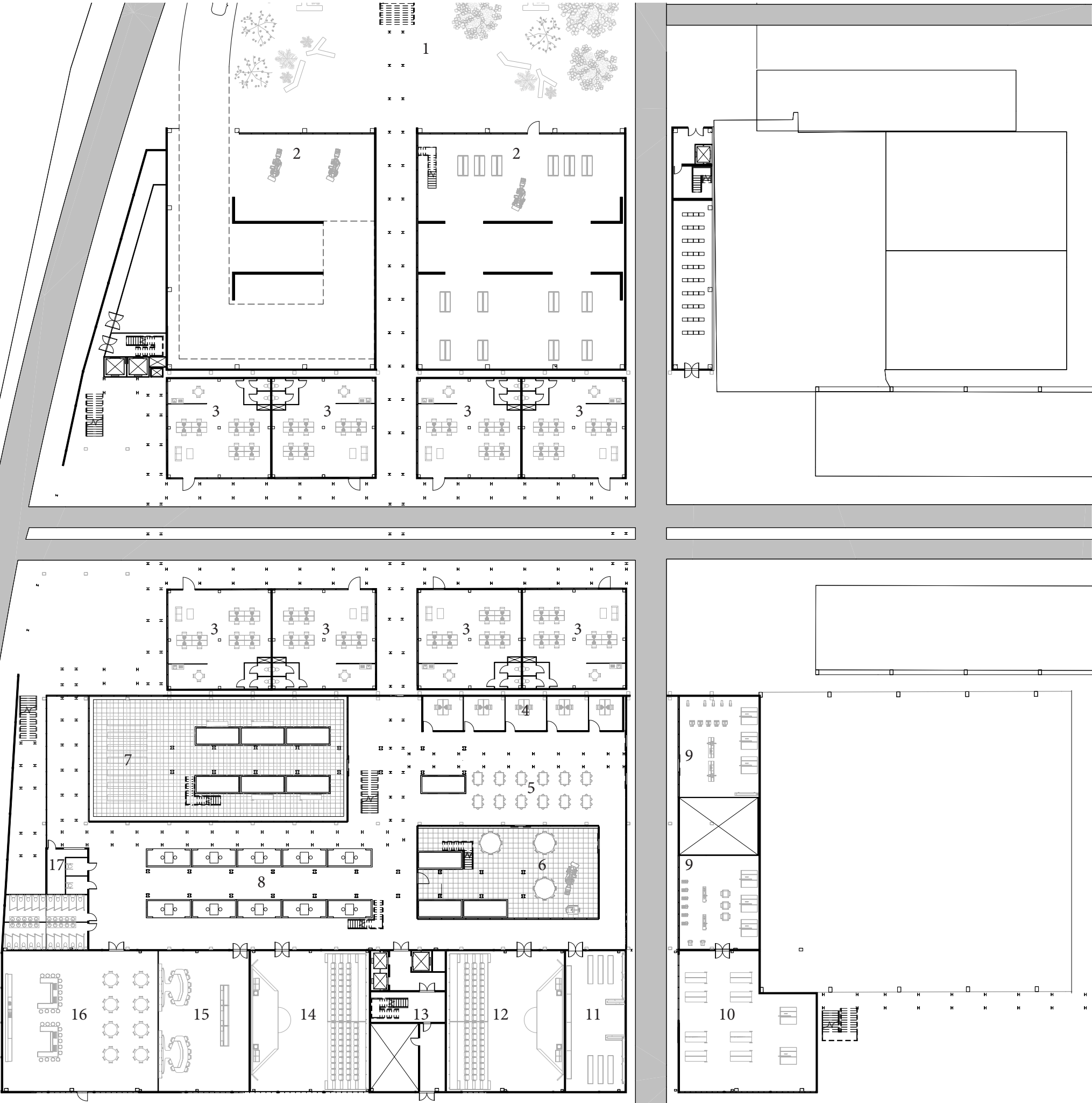
Existing

Ground Floor: Scheme



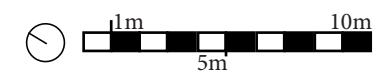
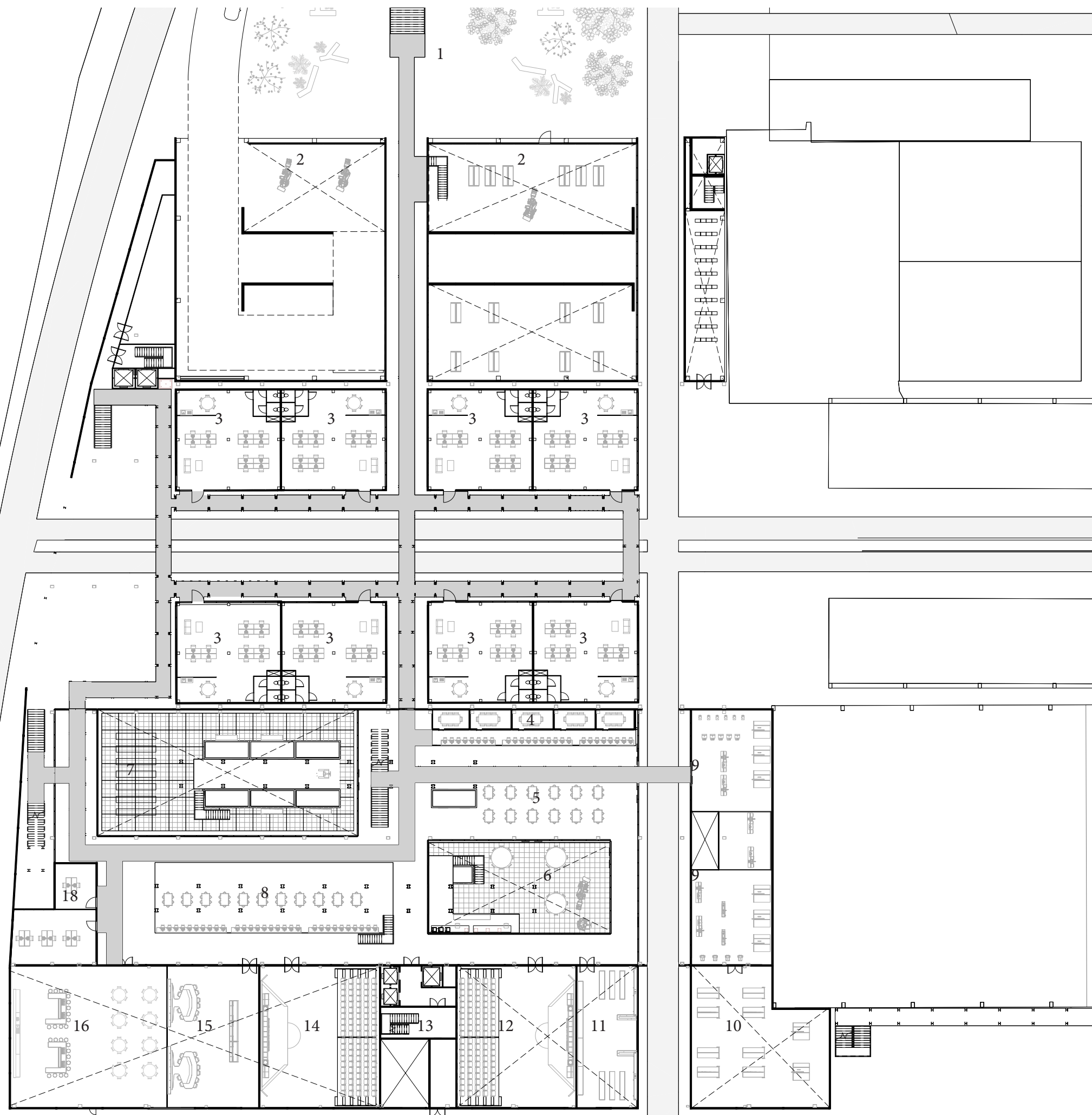
Ground Floor

- 1. Public square
- 2. Showroom for the innovation campus
- 3. Start-up cubicles
- 4. Meeting rooms/offices
- 5. Open workshop area
- 6. Atrium A - Robotics laboratory
- 7. Atrium B - Aqua laboratory
- 8. Flexible working/display area in the former annealing basins
- 9. Woodworking workshop
- 10. Plastics workshop
- 11. Materials shop
- 12. Auditorium
- 13. Vertical circulation
- 14. Auditorium
- 15. VR laboratory
- 16. Cafe-restaurant
- 17. Wardrobe area



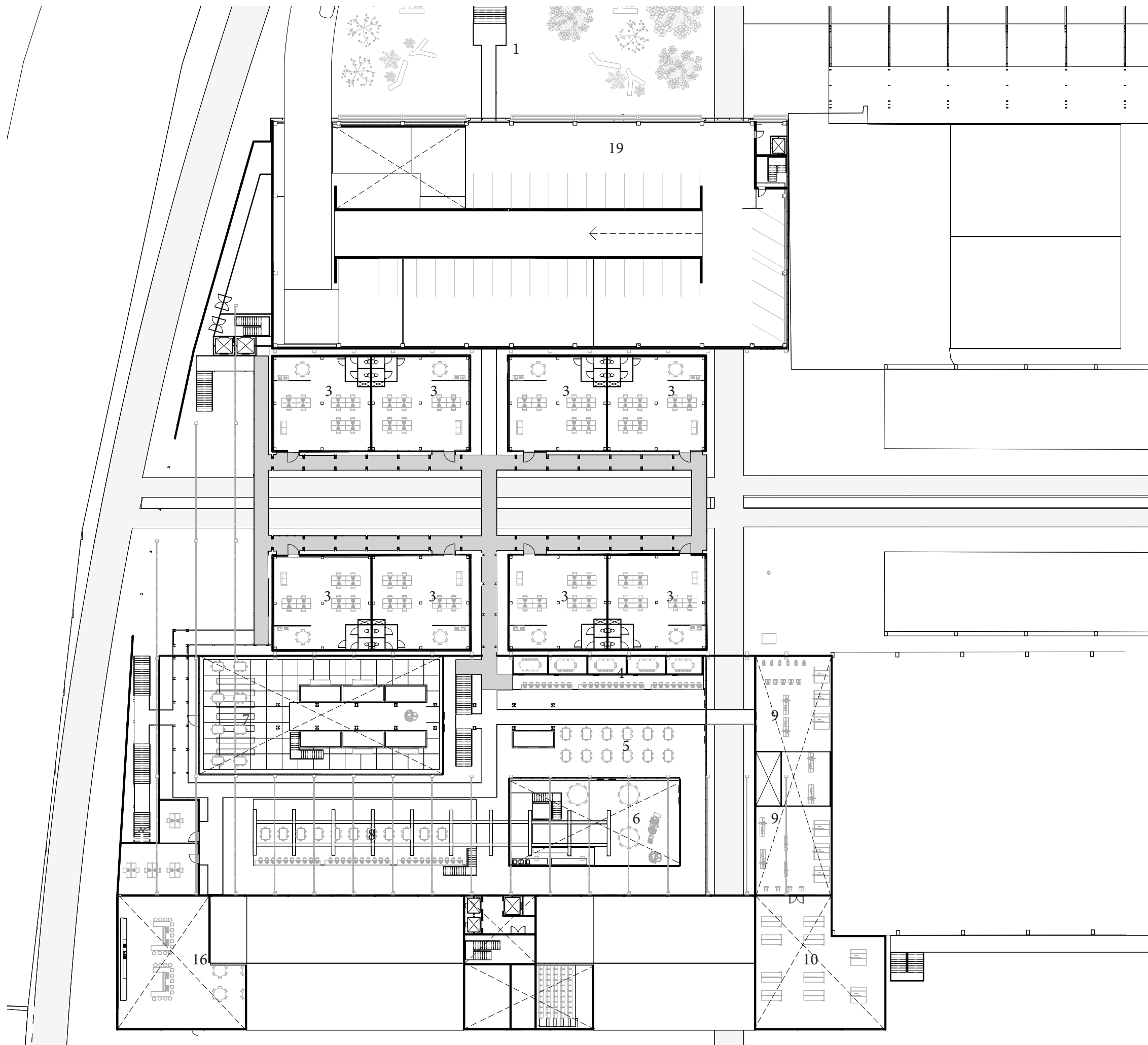
Gallery level 1

1. Public square
2. Showroom for the innovation campus
3. Start-up cubicles
4. Meeting room/offices
5. Open workshop area
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7. Atrium B - Aqua laboratory
8. Flexible working/display area in the former annealing basins
9. Woodworking workshop
10. Plastics workshop
11. Materials shop
12. Auditorium
13. Vertical circulation
14. Auditorium
15. VR laboratory
16. Cafe-restaurant
18. Office spaces



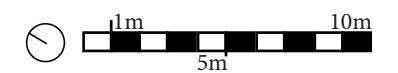
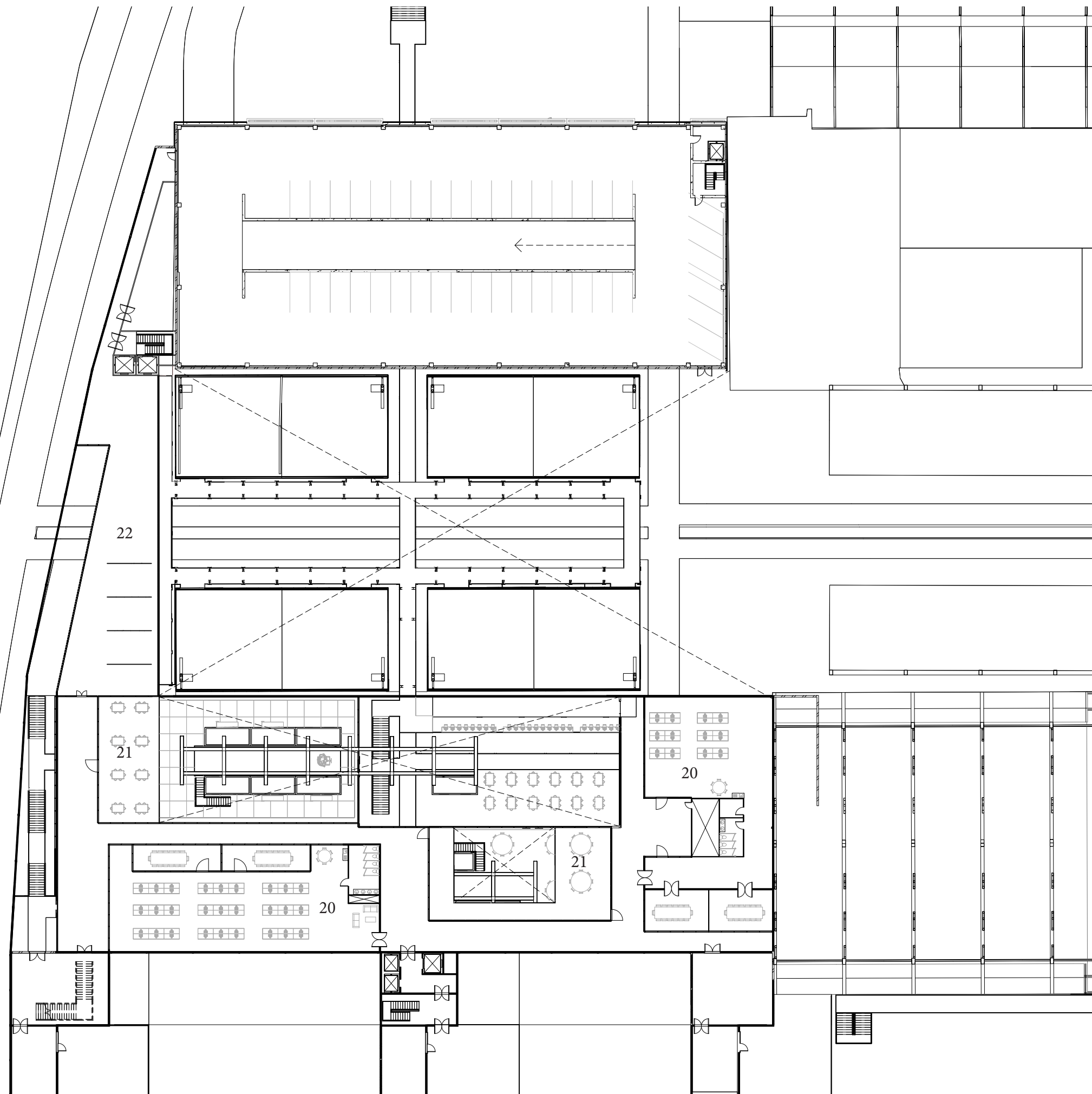
Gallery level 2

1. Public square
2. Showroom for the innovation campus
3. Start-up cubicles
4. Meeting room/offices
5. Open workshop area
6. Atrium A - Robotics laboratory
7. Atrium B - Aqua laboratory
8. Flexible working/display area in the former annealing basins
9. Woodworking workshop
10. Plastics workshop
11. Materials shop
12. Auditorium
13. Vertical circulation
14. Auditorium
15. VR laboratory
16. Cafe-restaurant
19. Parking



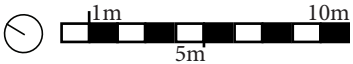
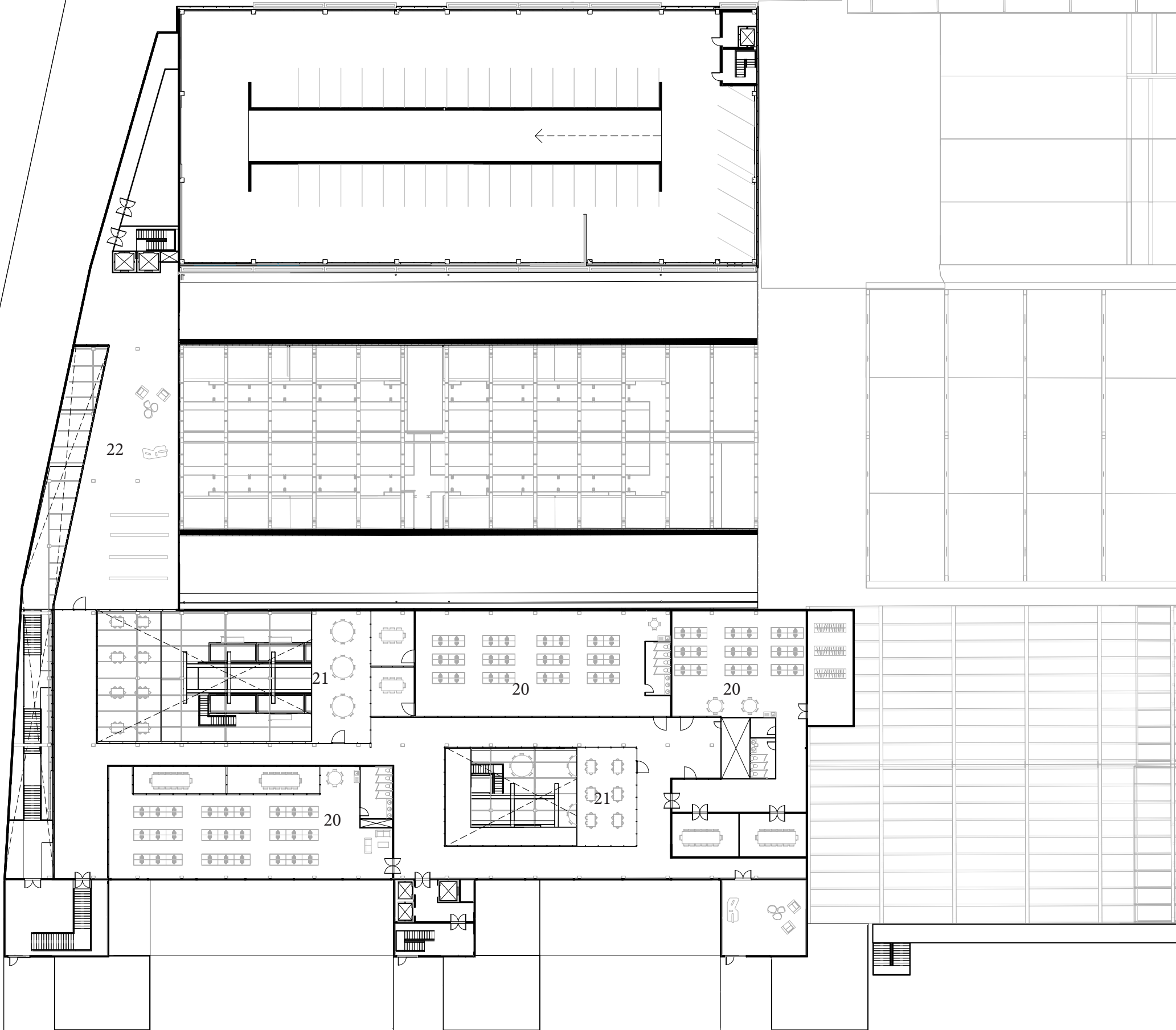
Office floor level 1

- 20. Larger offices for expanding startups
- 21. Atrium workshop/meeting spaces
- 22. Flexible exhibition/event space



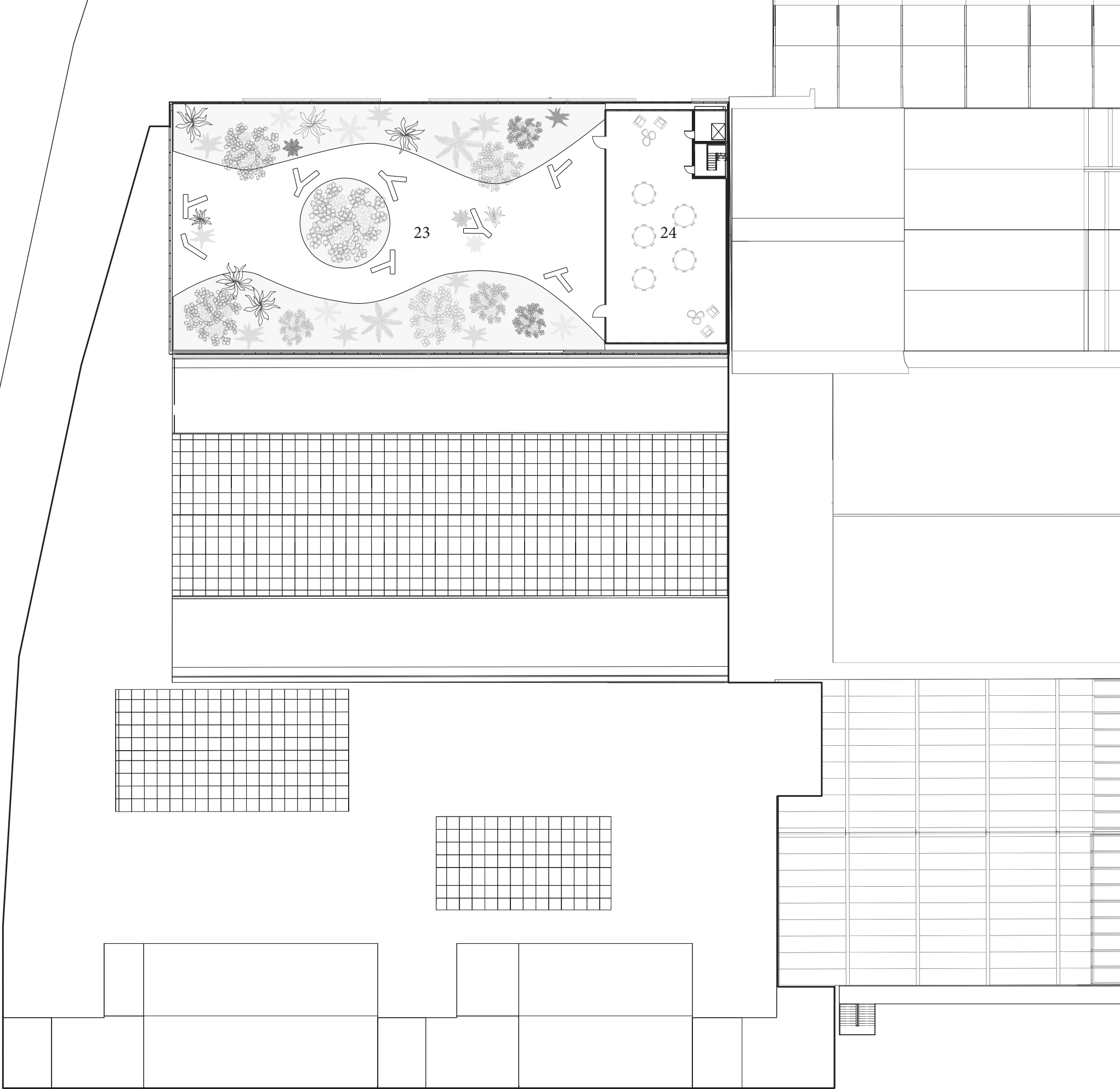
Office floor level 2

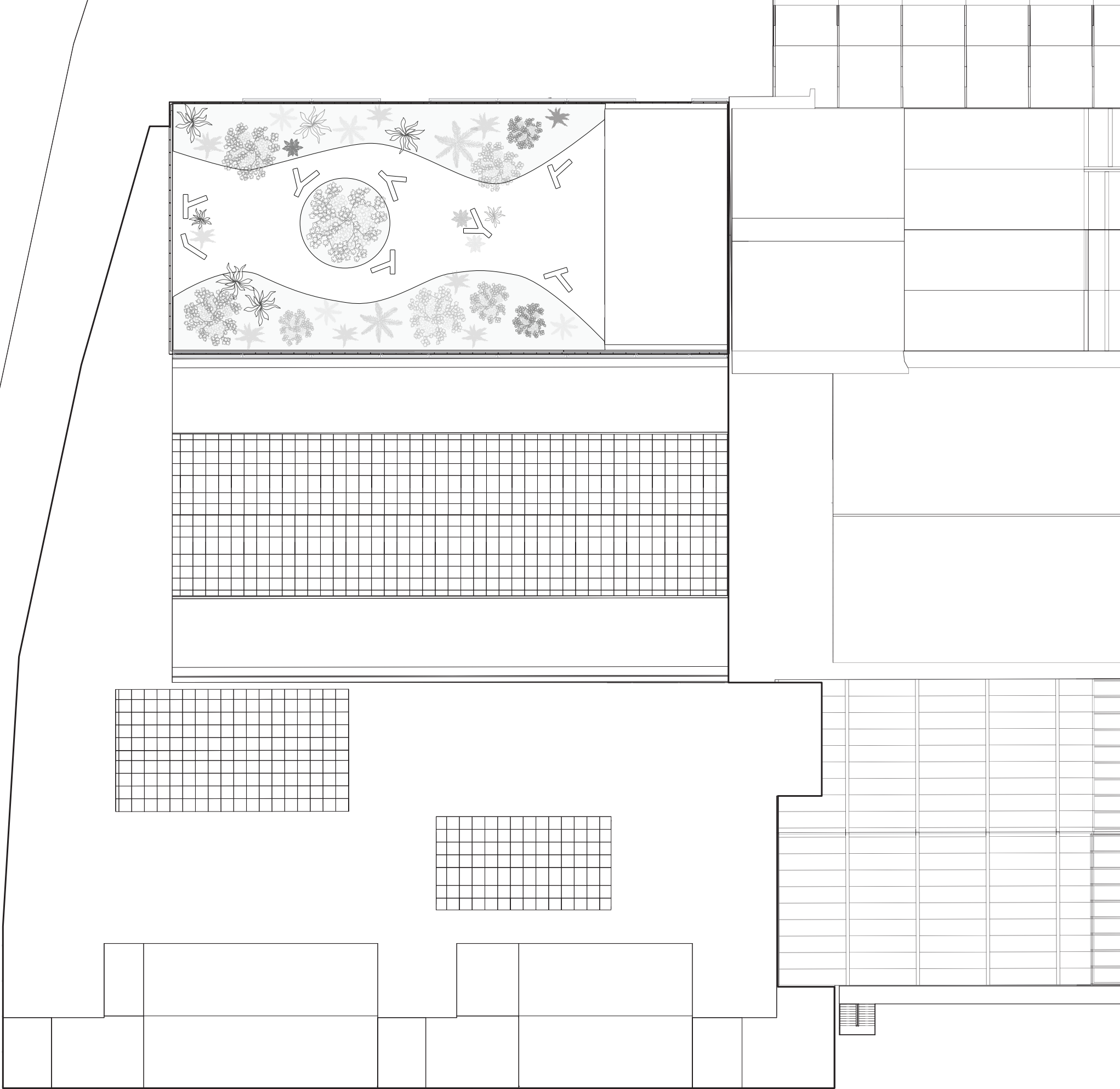
- 20. Larger offices for expanding startups
- 21. Atrium workshop/meeting spaces
- 22. Flexible exhibition/event space



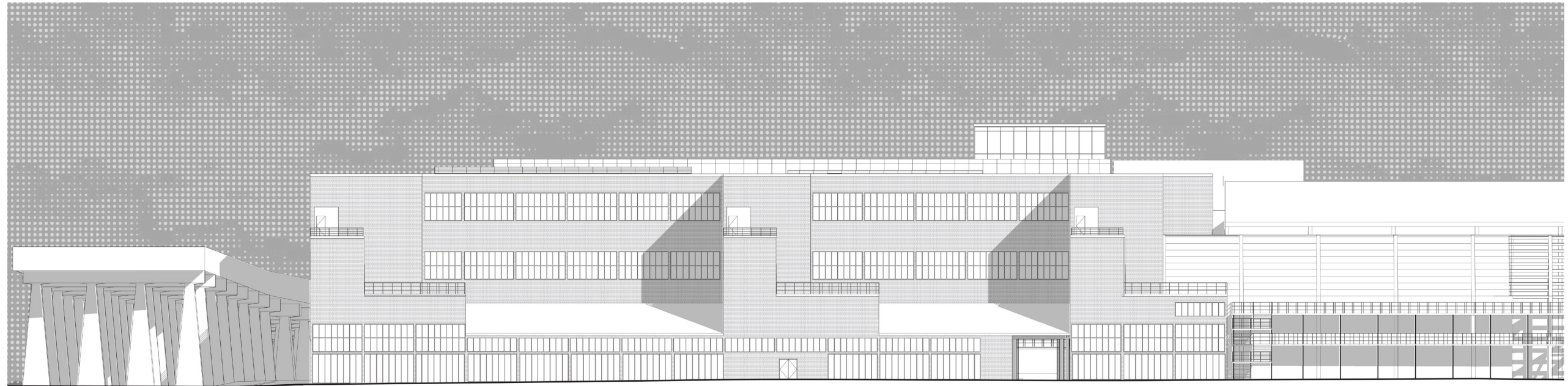
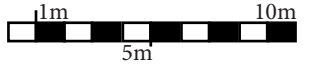
Rooftop

- 23. Rooftop garden
- 24. Rooftop gathering space

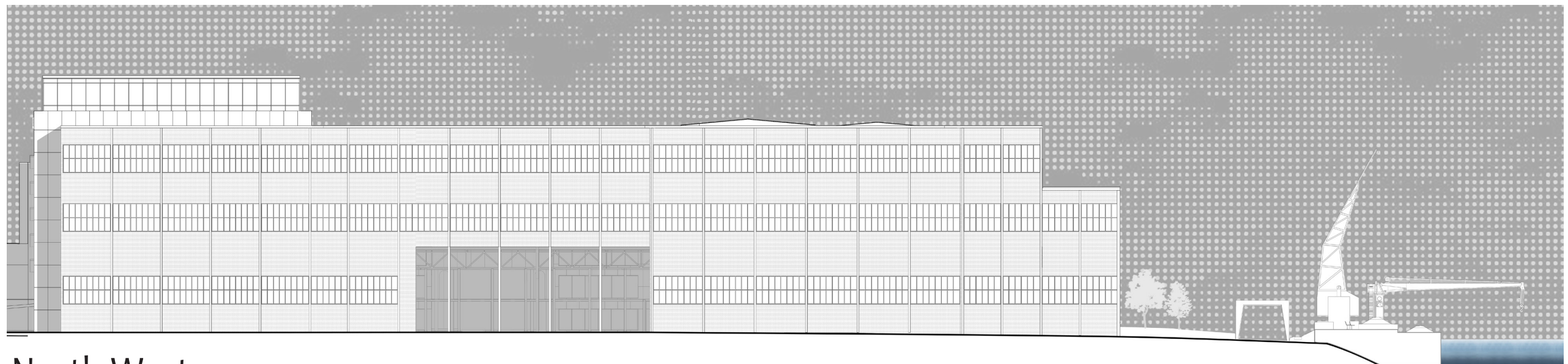




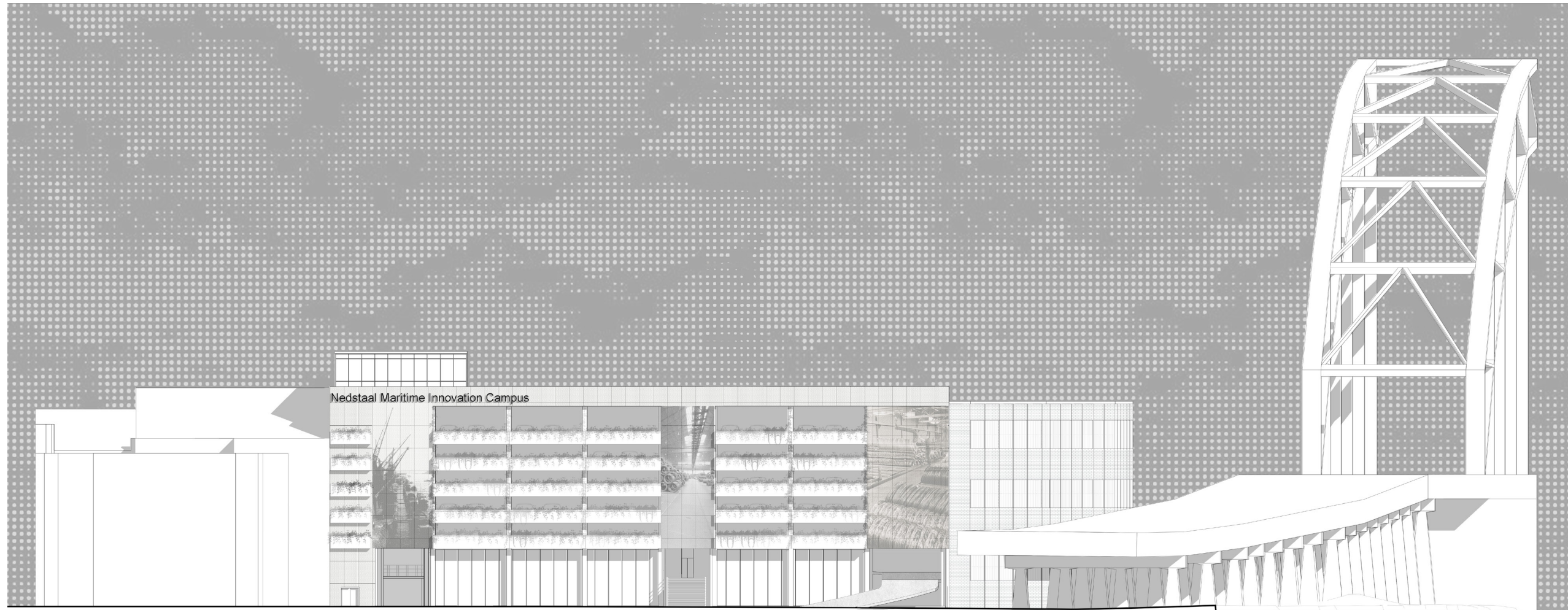
“Nedstaal Maritime Innovation Campus” | Facades



South-West

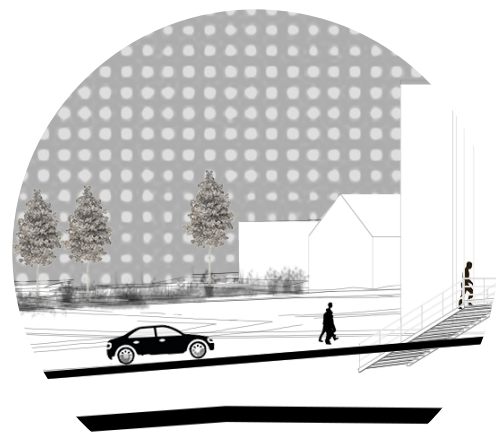
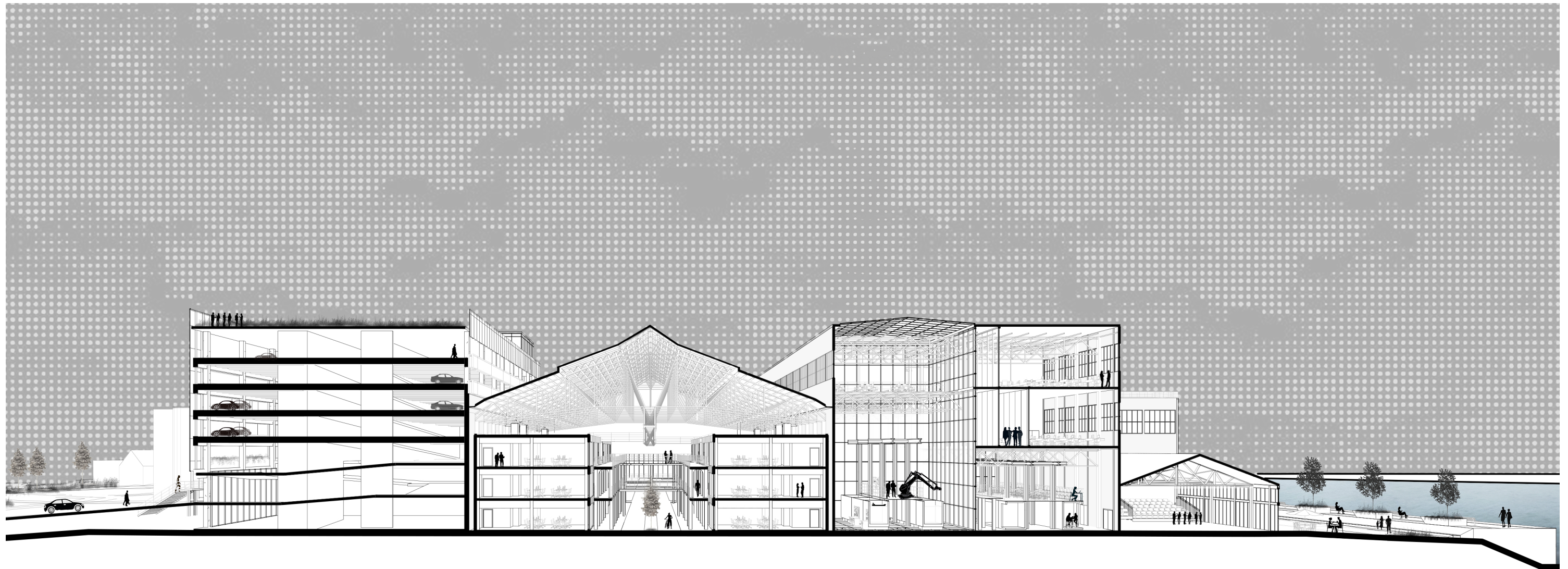
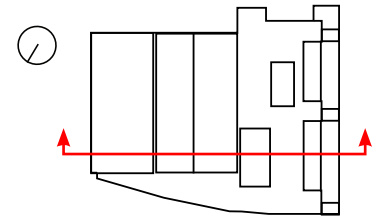


North-West

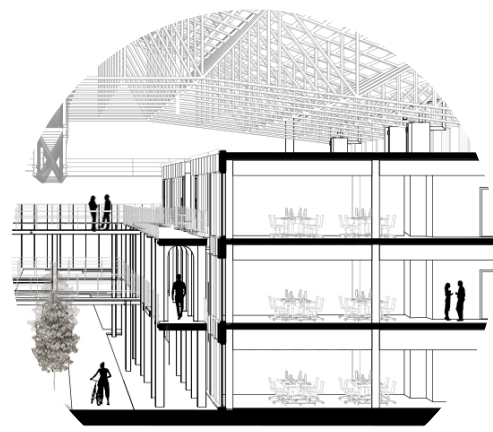


North-East

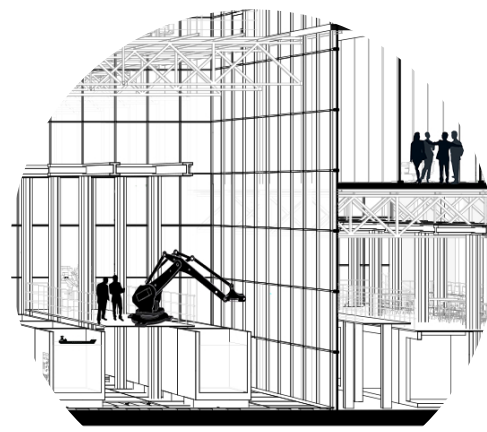
“Nedstaal Maritime Innovation Campus” | Cross-section



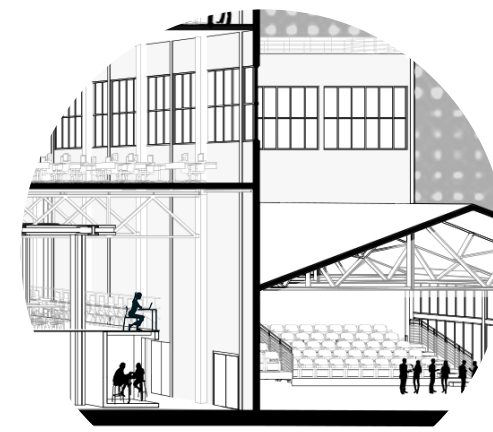
Public square & Parking



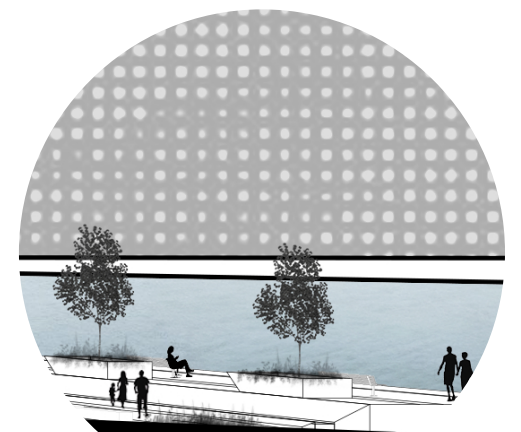
Start-up cubicles & steel gallery



Atrium aqualab in former annealing basins

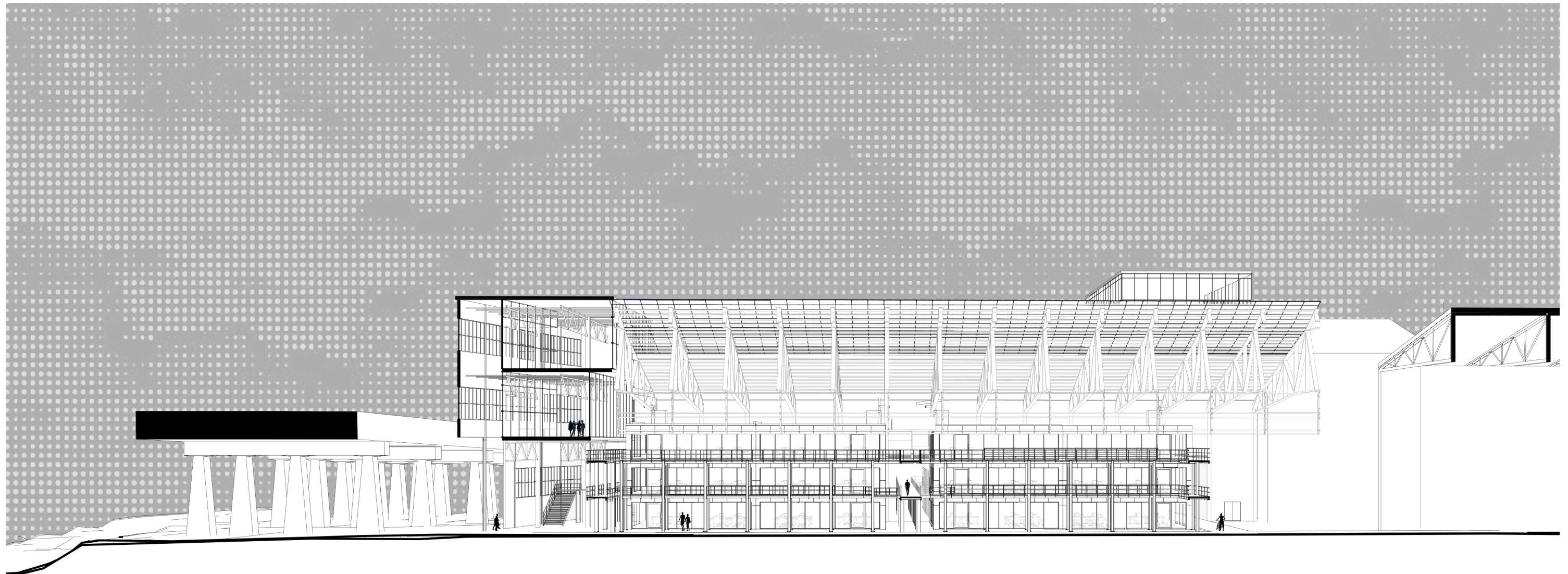
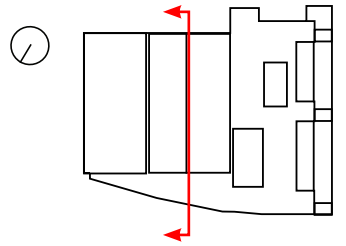


Working/Display area in former annealing basins

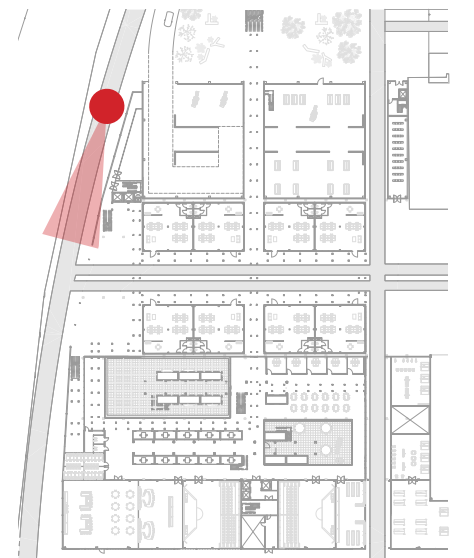


Nedstaal industrial waterfront

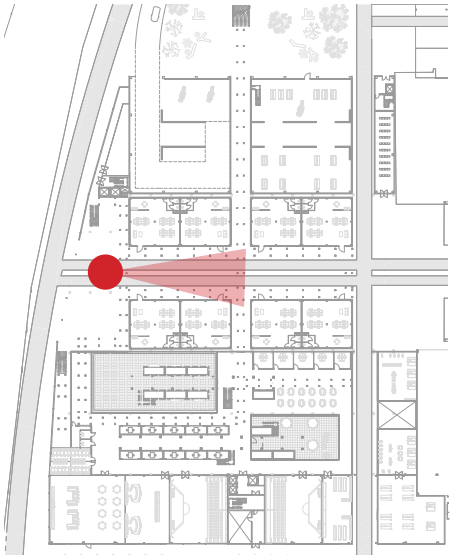
“Nedstaal Maritime Innovation Campus” | Longitudinal section



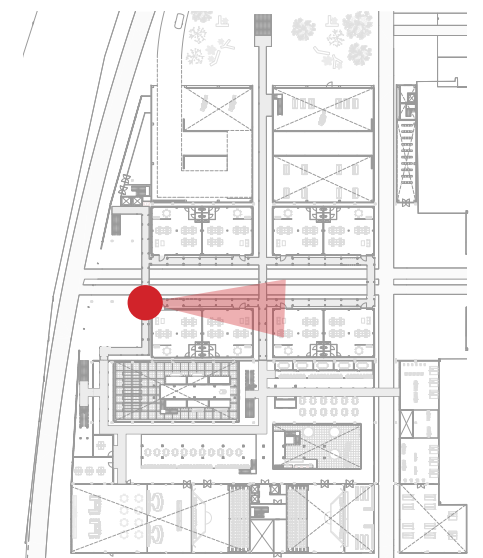
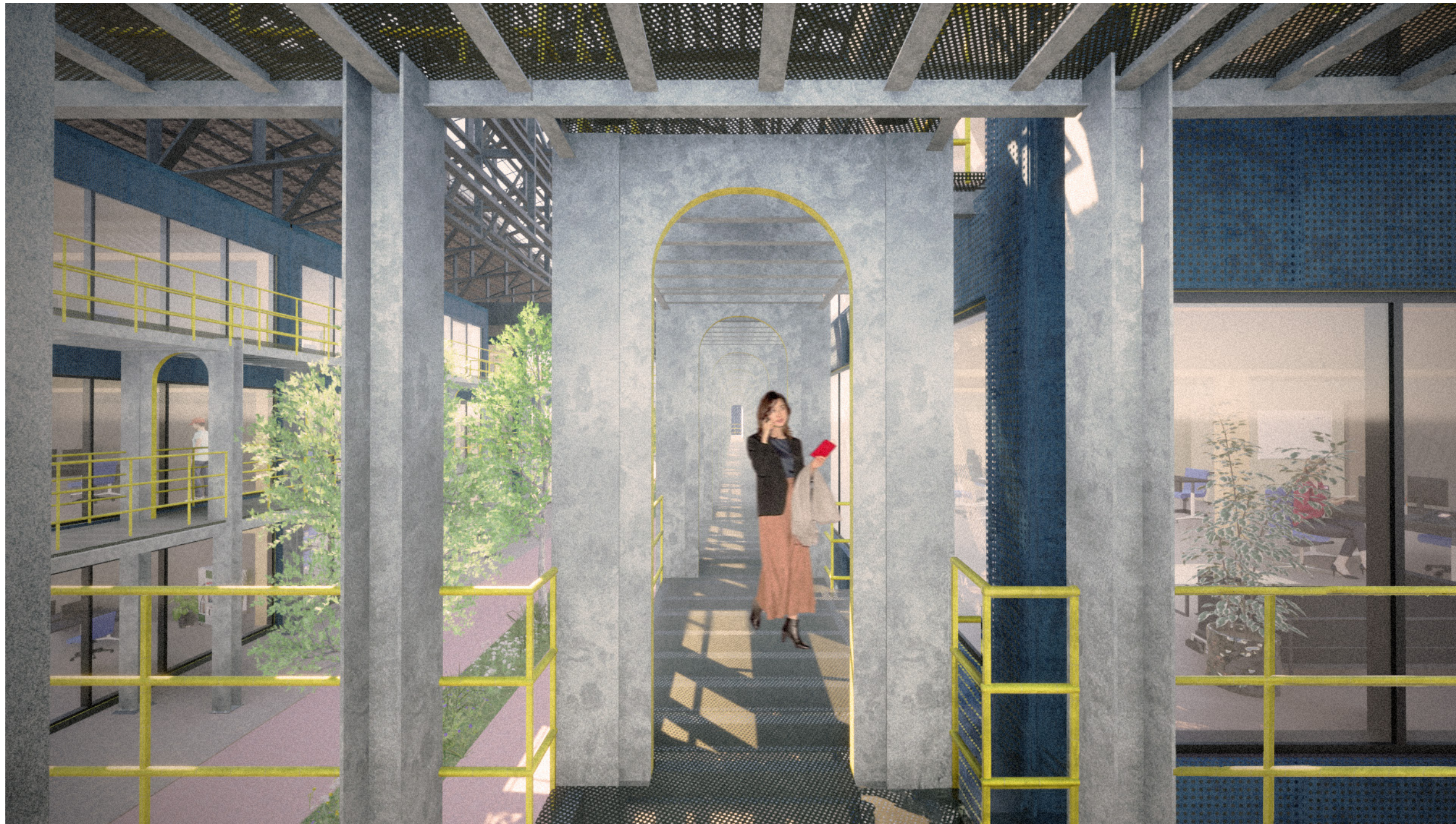
“Nedstaal Maritime Innovation Campus” | Approaching the main entrance



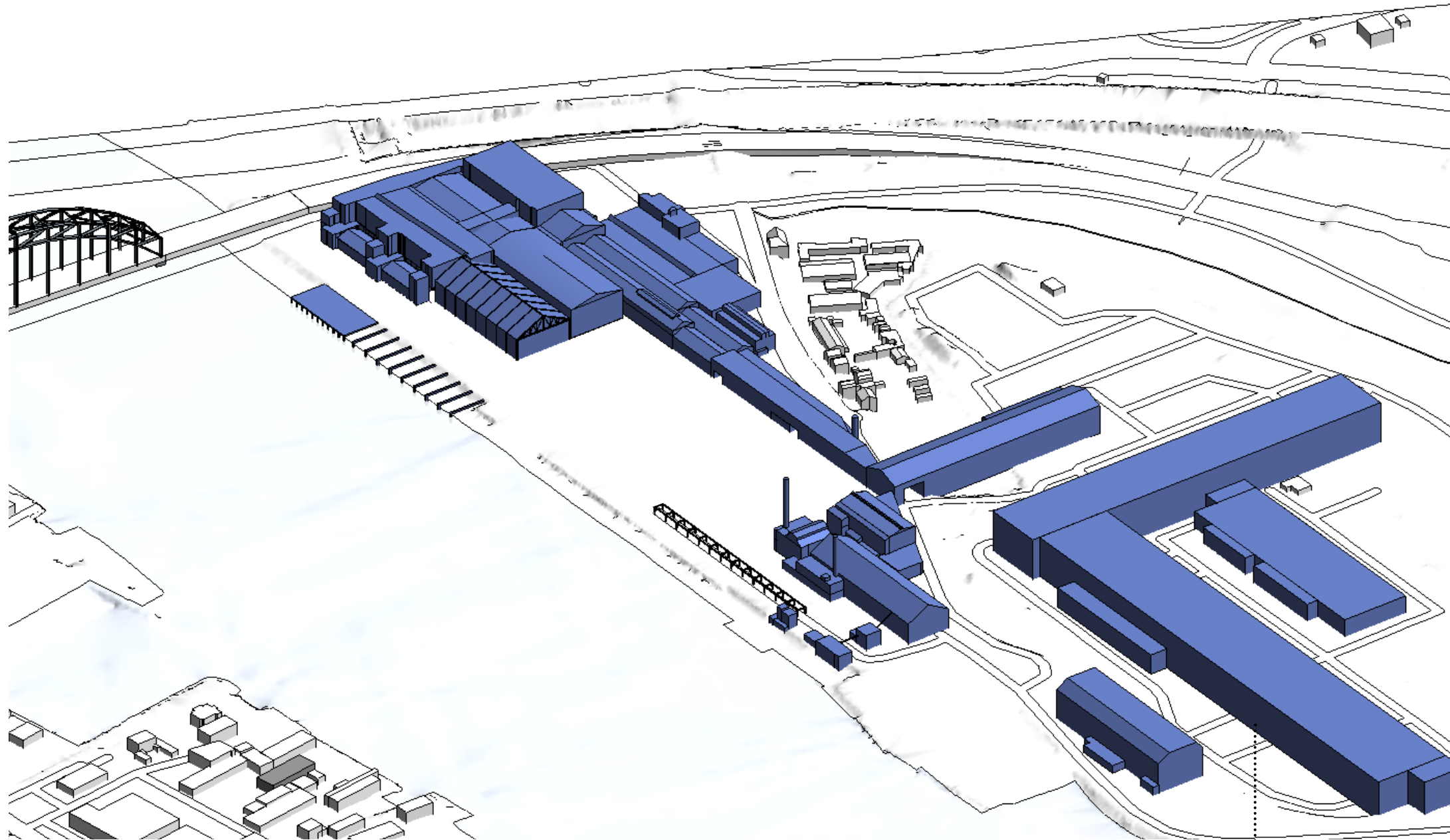
“Nedstaal Maritime Innovation Campus” | Startup cubicles hall



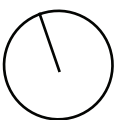
“Nedstaal Maritime Innovation Campus” | Steel galleries



“Nedstaal Maritime Innovation Campus” | South-west view



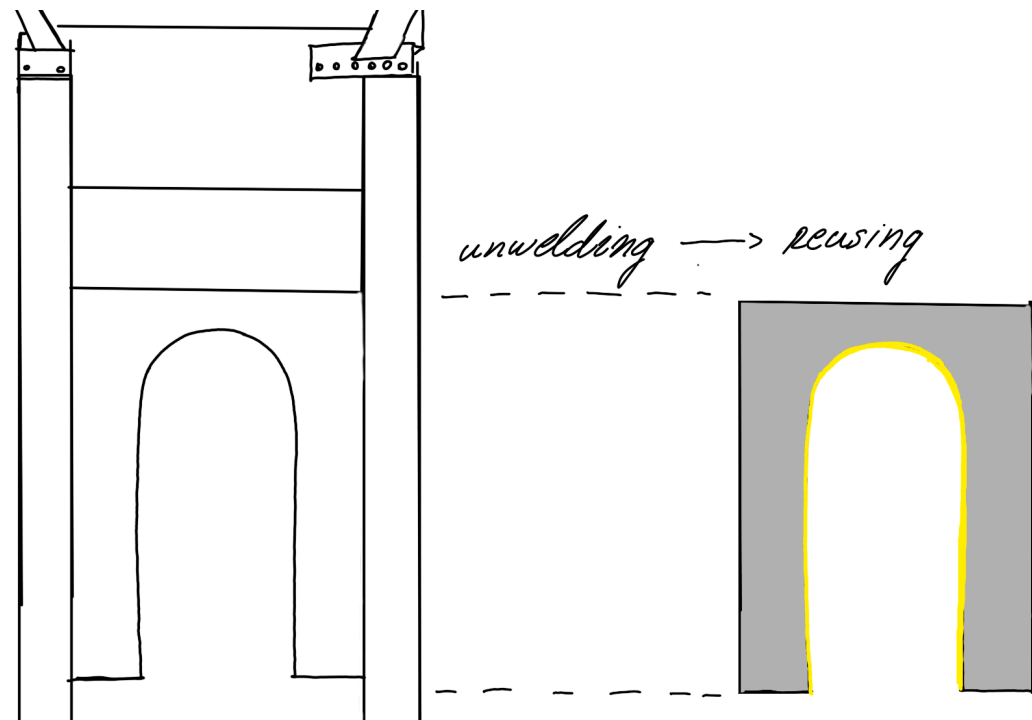
Steel extrusion department in a process of demolition



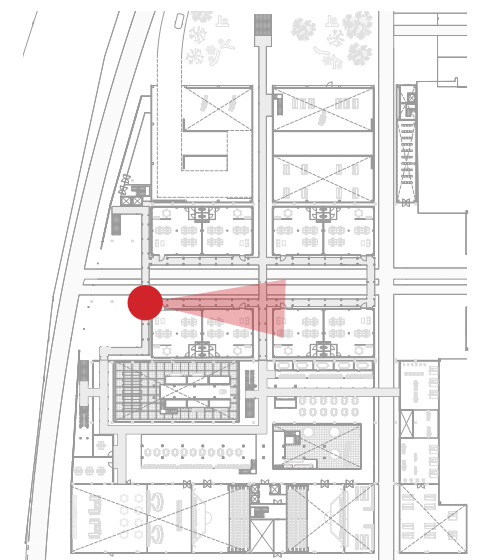
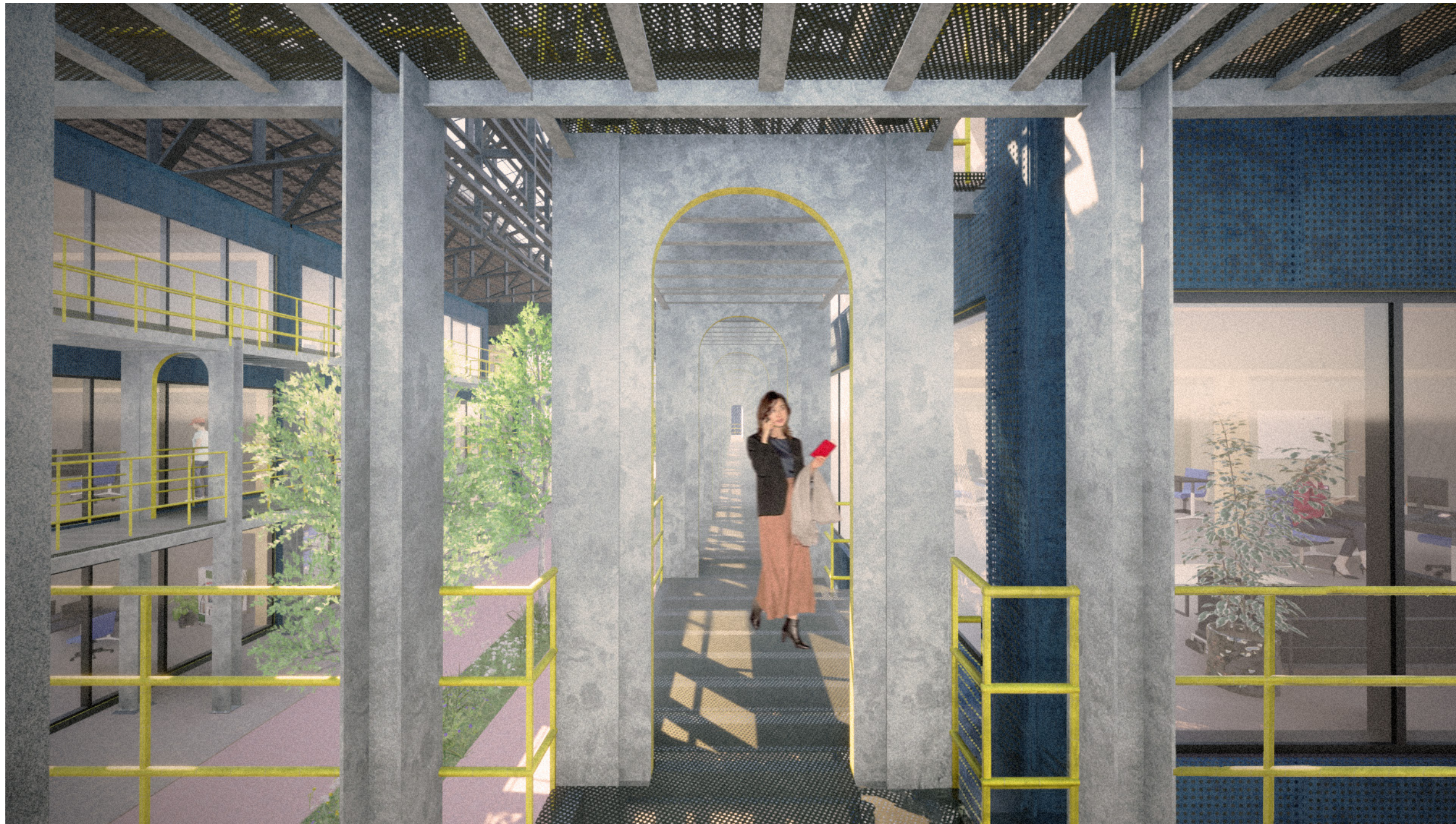
“Nedstaal Maritime Innovation Campus” | Reusing existing arches from the steel extrusion department



Photo source: (De Jong, 2018)



“Nedstaal Maritime Innovation Campus” | Steel galleries



“Nedstaal Maritime Innovation Campus” | Reusing principle

Arches, part of the steel galleries specifically created for visitors



Photo source: (De Jong, 2018)

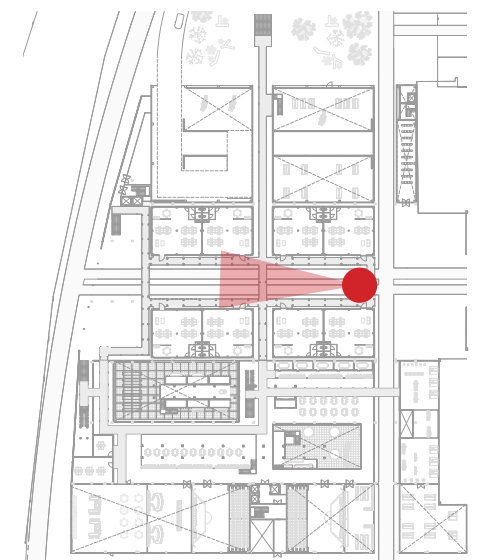
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Storage hall for wire rods

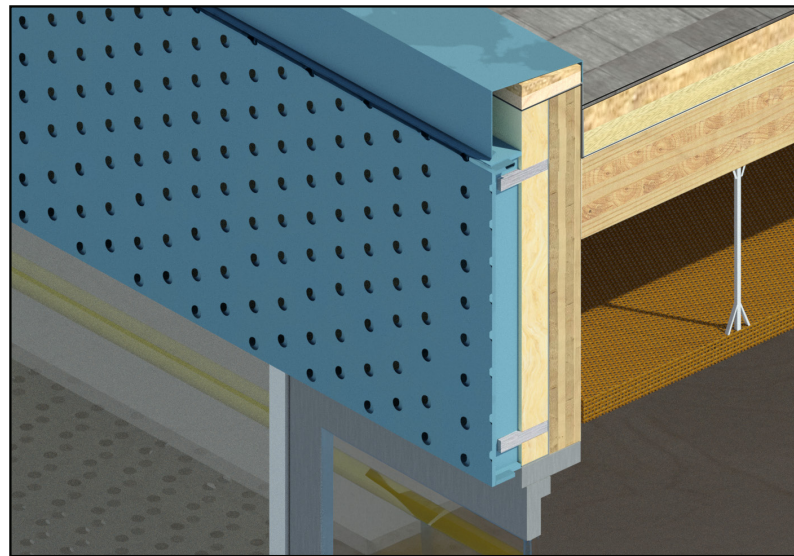


Image source: (Storage hall for wire: Nedstaal in Alblasserdam [photograph]. (1965-1974). Regional Archive Dordrecht.)

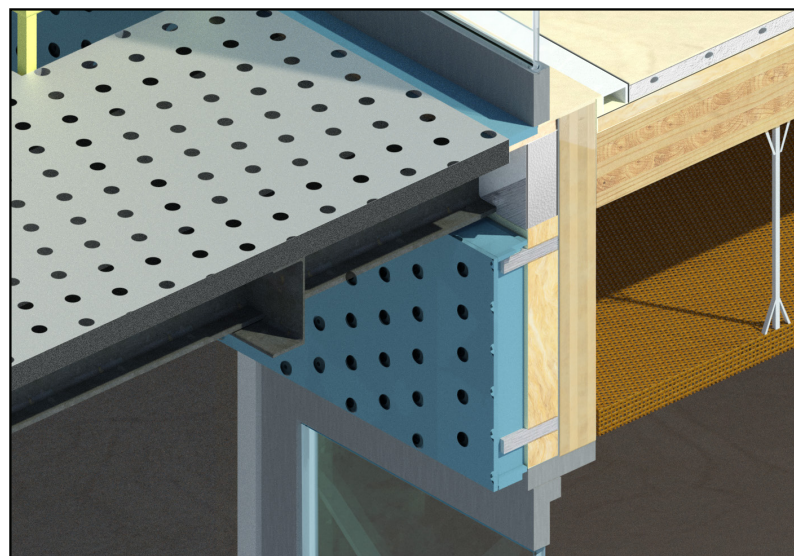
“Nedstaal Maritime Innovation Campus” | total overview of the redeveloped storage hall



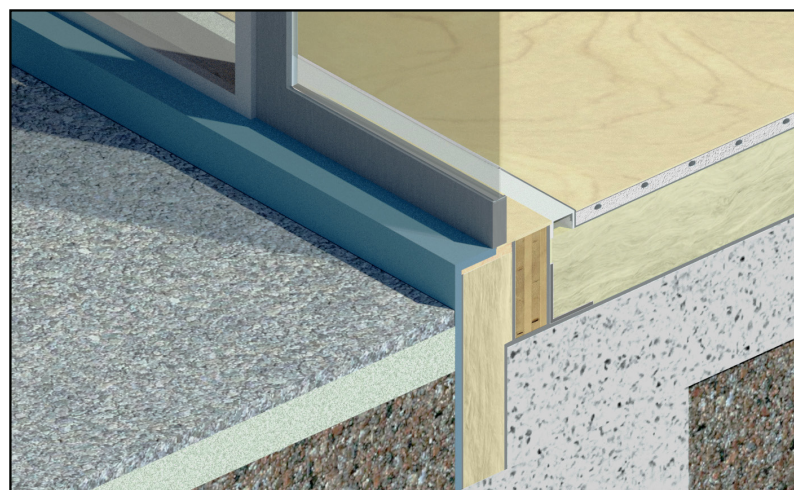
“Nedstaal Maritime Innovation Campus” | Detail section



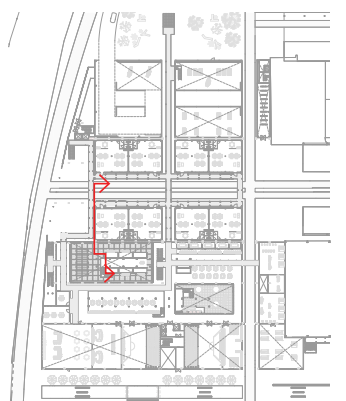
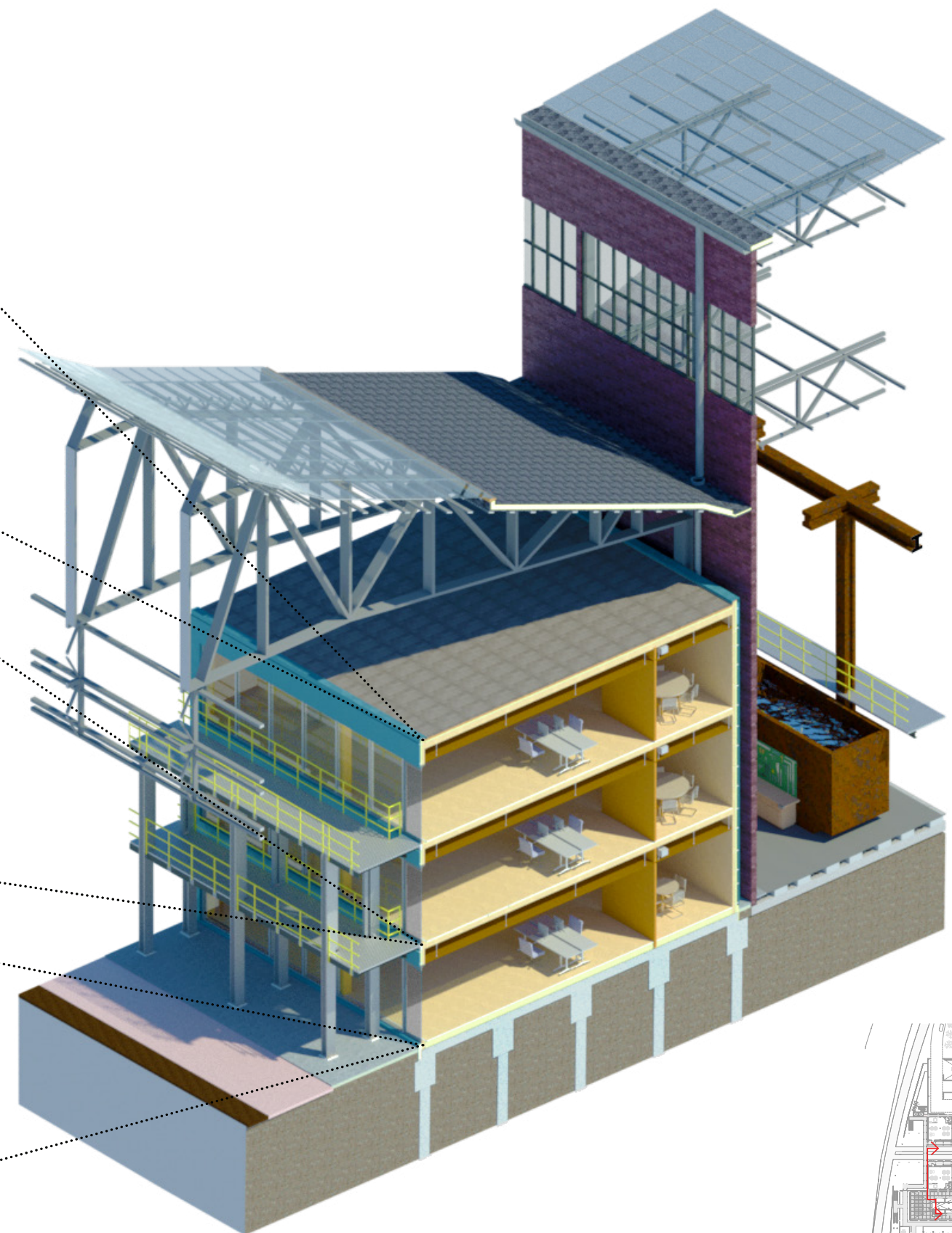
Rooftop



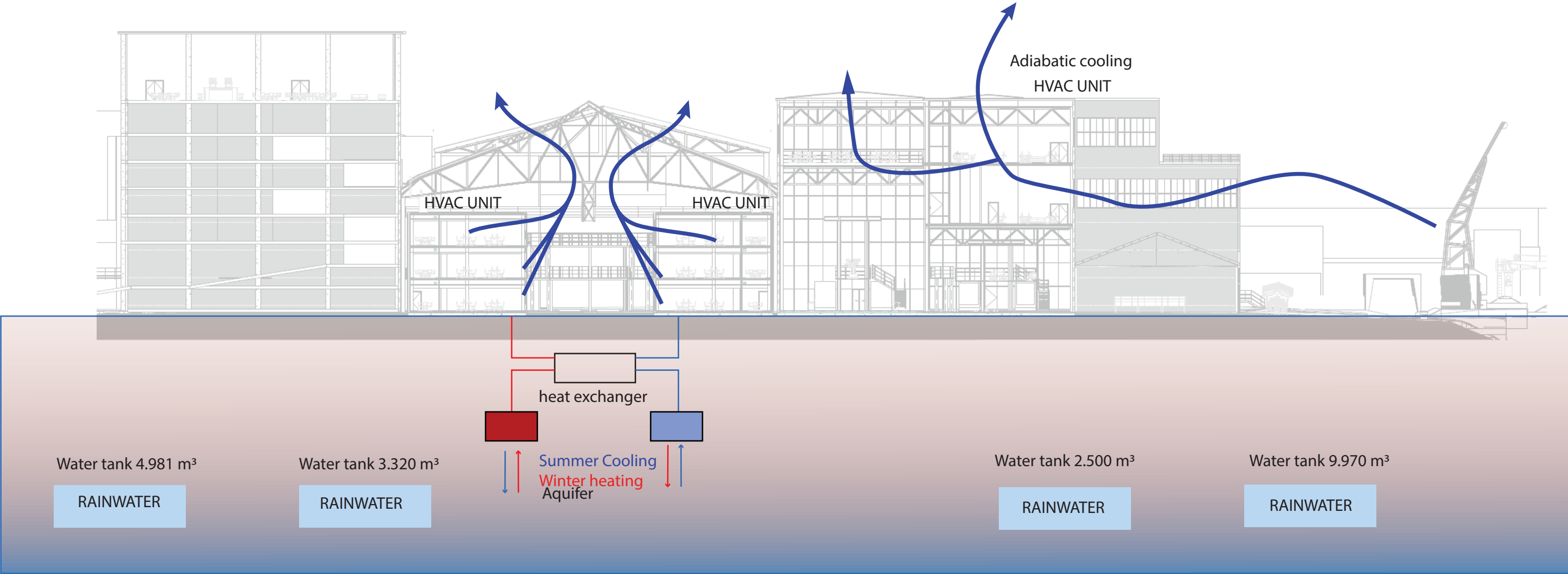
Steel gallery-to-wall



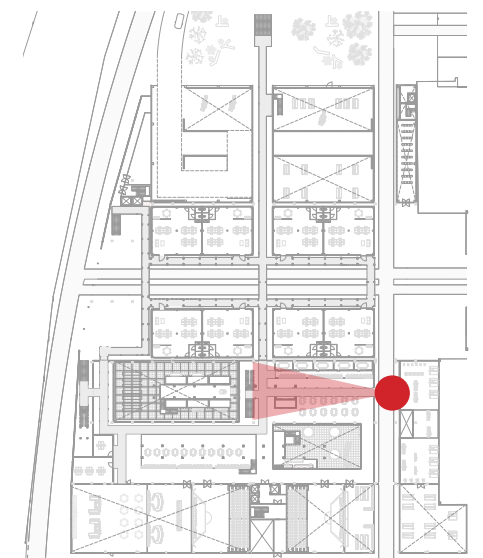
Foundation



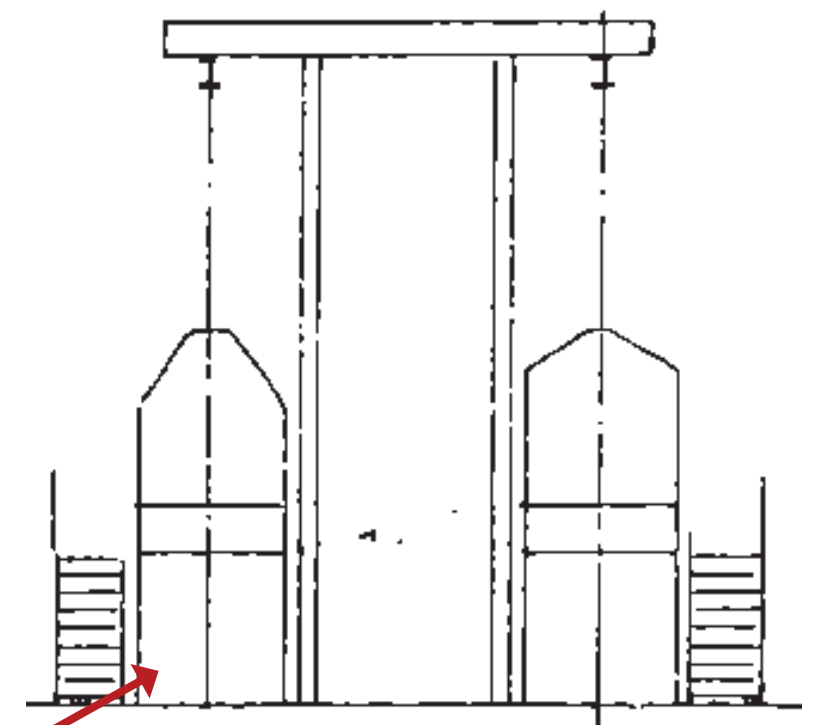
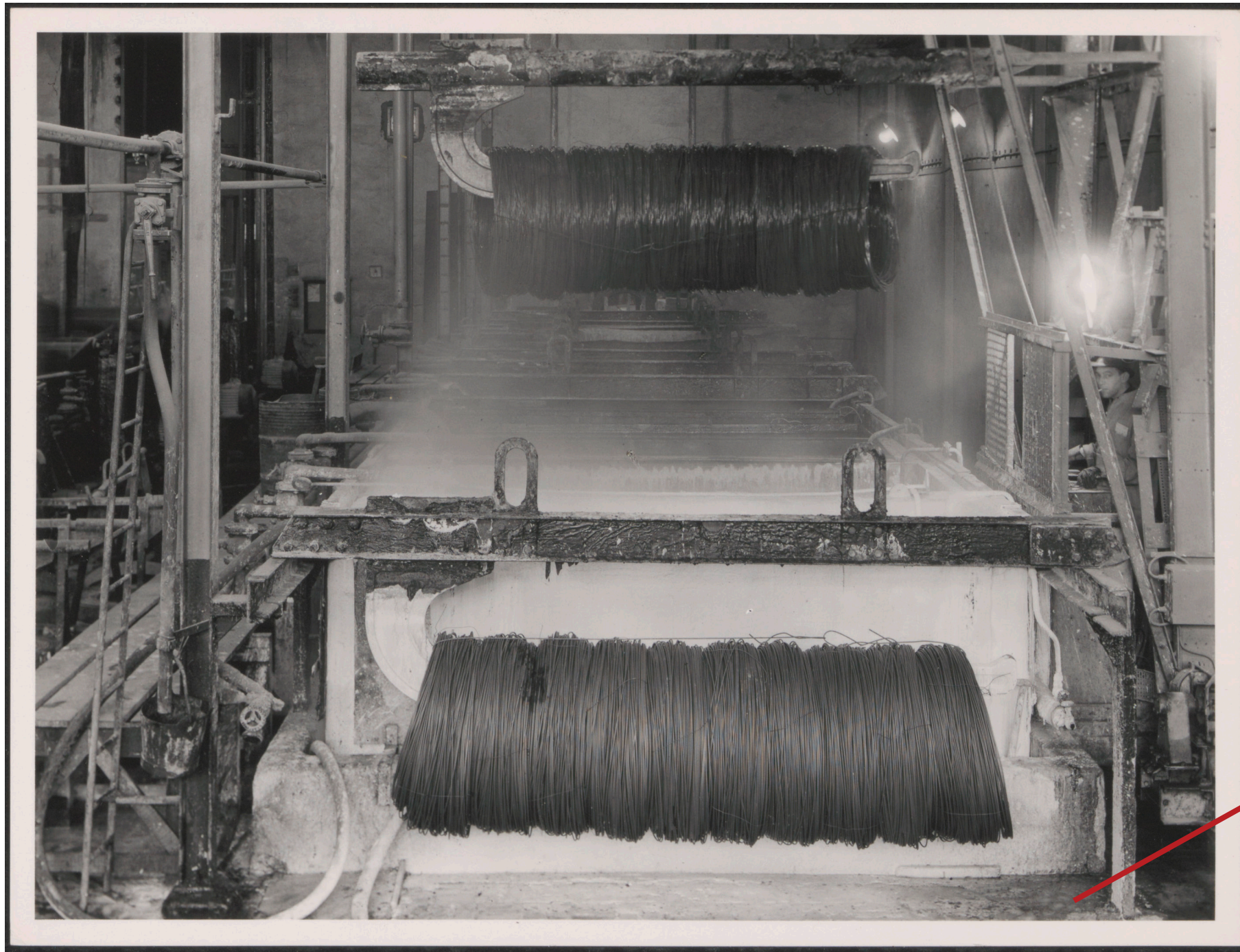
“Nedstaal Maritime Innovation Campus” | Climate Diagram



“Nedstaal Maritime Innovation Campus” | Open workshop area

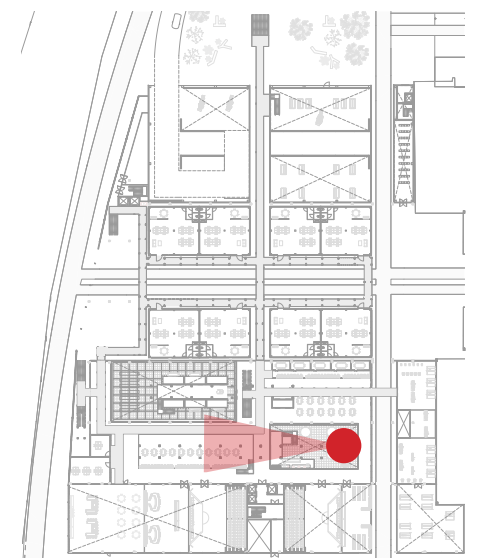


Annealing basins

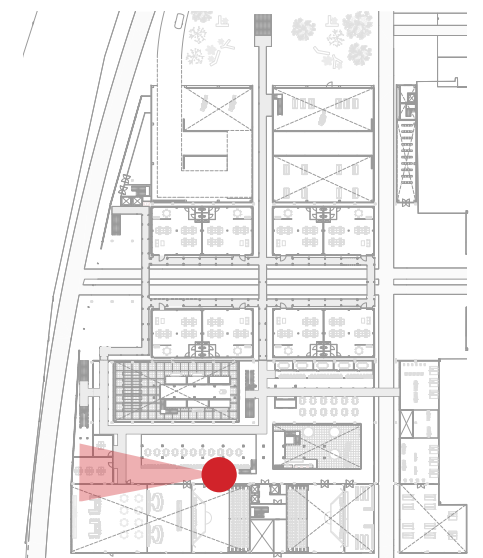


Source: (Annealing basins in Nedstaal in Alblasterdam [photograph]. (1965-1974). Regional Archive Dordrecht.)

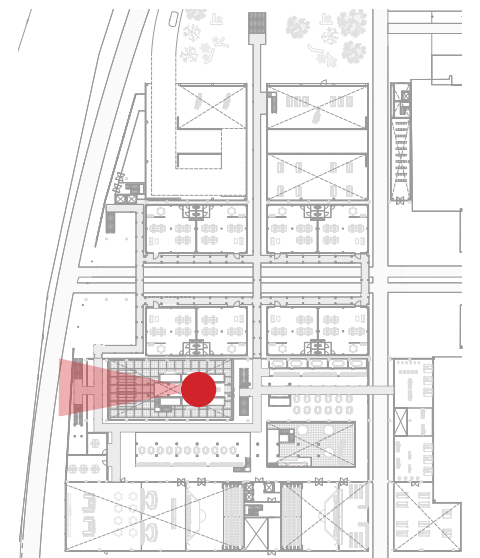
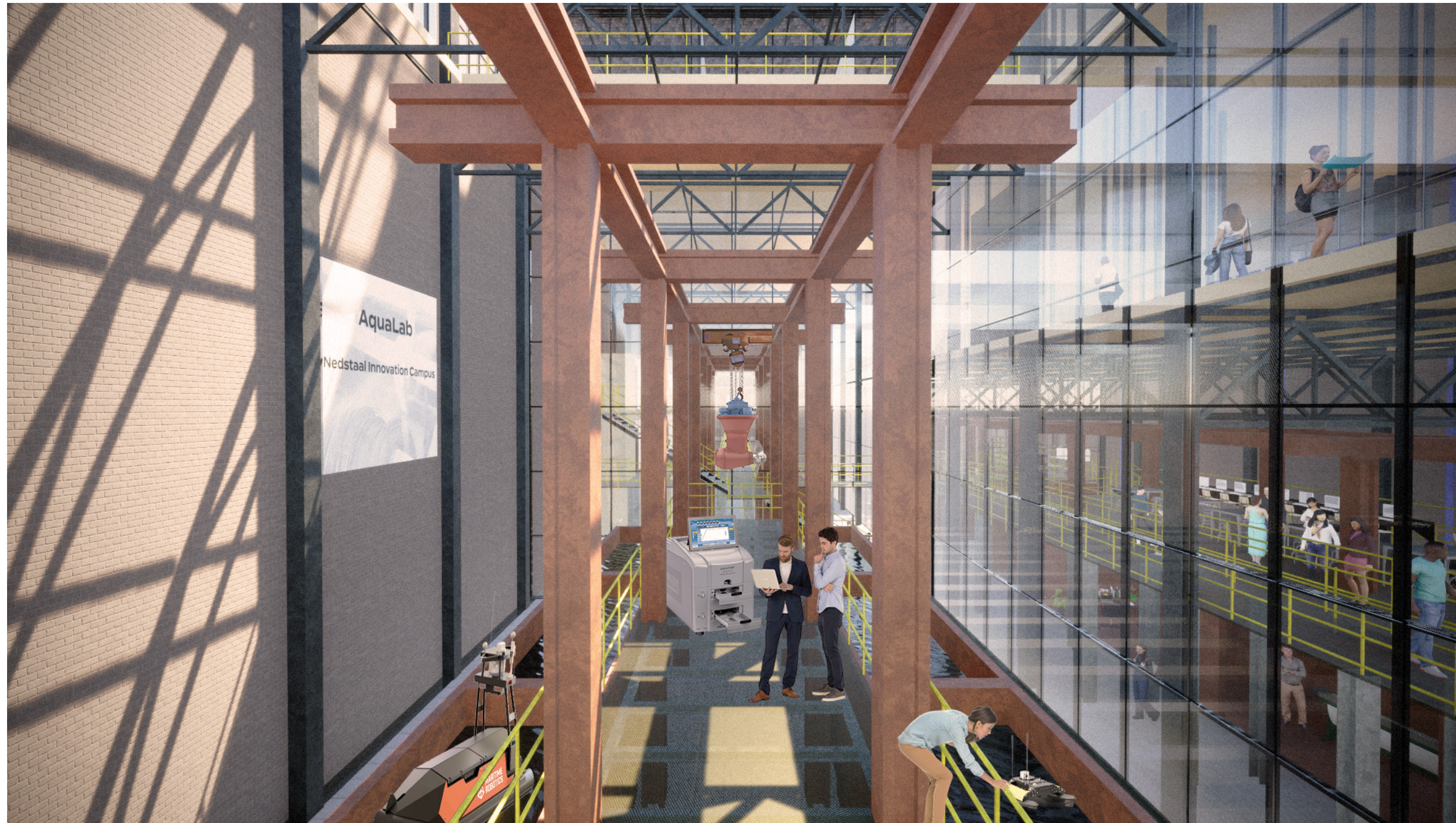
“Nedstaal Maritime Innovation Campus” | Robotics atrium lab



“Nedstaal Maritime Innovation Campus” | Repurposing proposal for steel basins



“Nedstaal Maritime Innovation Campus” | Aqua lab



“Nedstaal maritime innovation campus” | Landscape development



Source: (Nedstaal Factory [photograph]. (1965 - 1974). Regional Archive Dordrecht.)

“Nedstaal maritime innovation campus” | Landscape development



“De Kabel” | Landscape: historical objects deduction



Historical photographs source: Regional Archive Dordrecht

“Nedstaal Maritime Innovation Campus” | Former workers’ entrance



Source: (Workers’ entrance [photograph]. (1965 - 1974). Regional Archive Dordrecht.)

“Nedstaal Maritime Innovation Campus” | FN Steel current storage



Photo source: (AD, 2019)

“Nedstaal Maritime Innovation Campus” | “Workers” Square view



“Nedstaal Maritime Innovation Campus” | Former unloading quay



Source: (Cranes for unloading scrap from inland vessels at the unloading quay [photograph]. (1965 - 1974). Regional Archive Dordrecht.)

“Nedstaal Maritime Innovation Campus” | “De Noord” river promenade



“Nedstaal Maritime Innovation Campus” | Historical crane tracks



Source: (Crane track of the cable factory [photograph]. (1965 - 1974). Regional Archive Dordrecht.)

“Nedstaal Maritime Innovation Campus” | Promenade underneath historical crane tracks

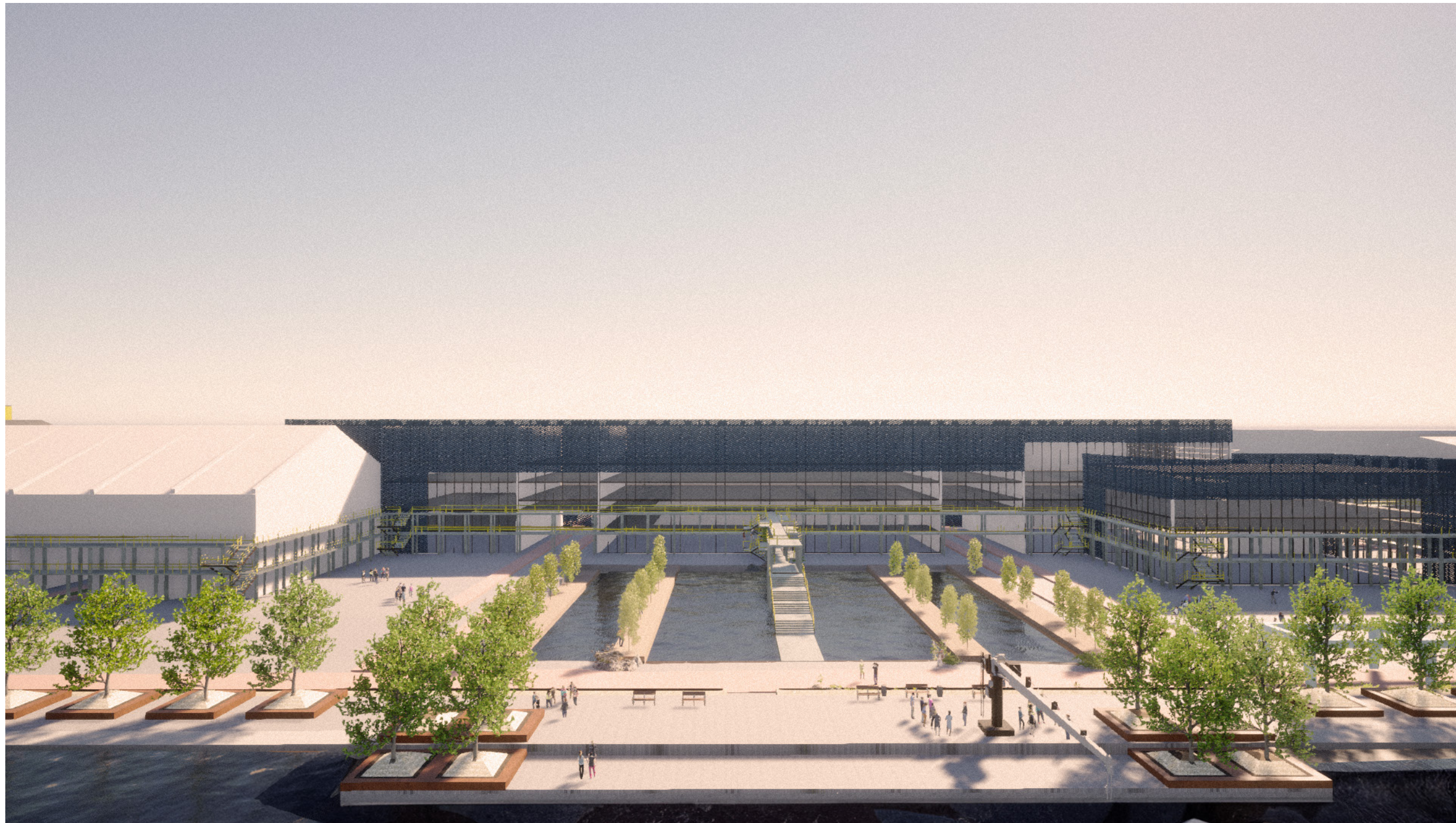


“Nedstaal Maritime Innovation Campus” | Former Smelter furnace



Source: (Nedstaal waterfront [photograph]. (1965 - 1974). Regional Archive Dordrecht.)

“Nedstaal Maritime Innovation Campus” | Main Square



*Ensuring Nedstaal's future by
sheltering it's past*

