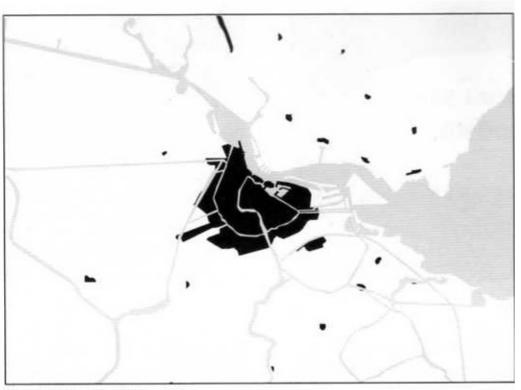


Amsterdam - gaps in the city



Amsterdam, historische stad

**Source:** Bergevoet, T., Van Tuijl, M. *De Flexibele Stad - Oplossingen Voor Leegstand En Krimp* (Rotterdam: nai010 uitgevers, 2013) p. 22

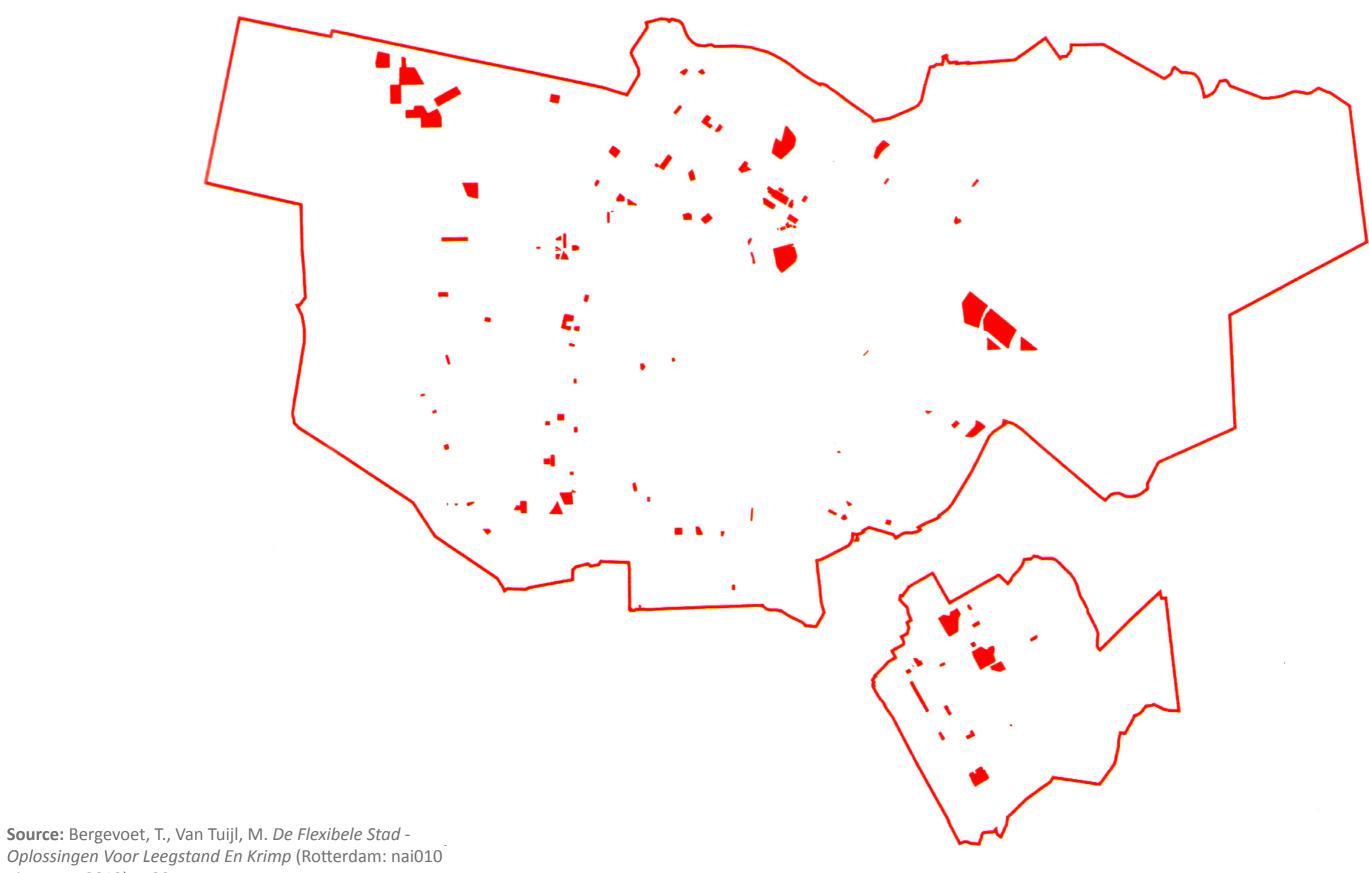


Amsterdam, moderne stad



Amsterdam, stad met structurele leegstand

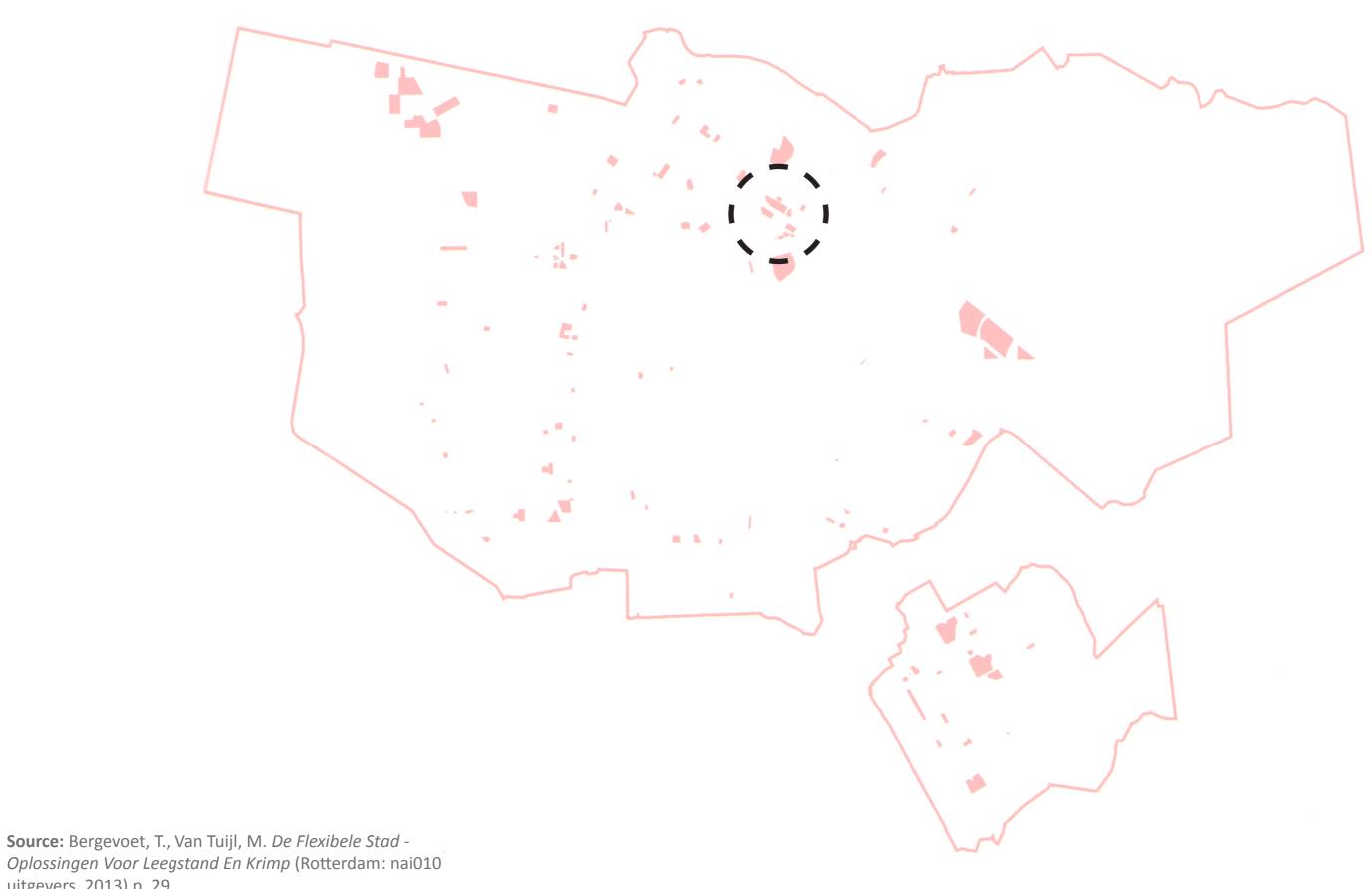
Vacant grounds Amsterdam



uitgevers, 2013) p. 29



**Buiksloterham - Amsterdam-Noord** 5 / 89



uitgevers, 2013) p. 29



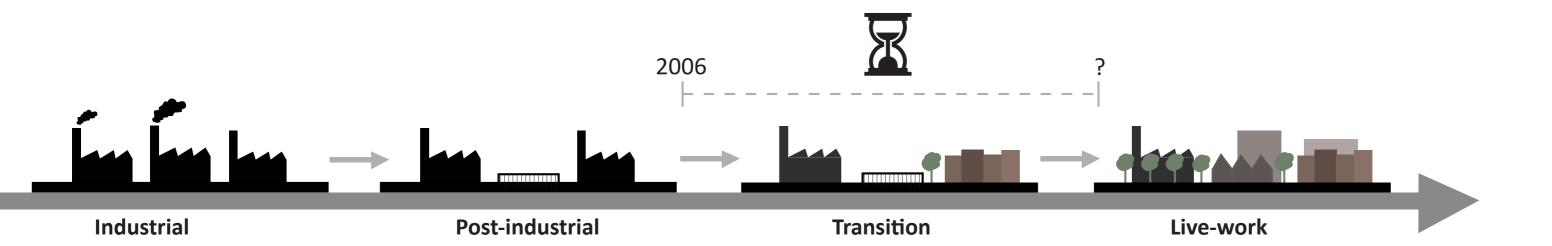








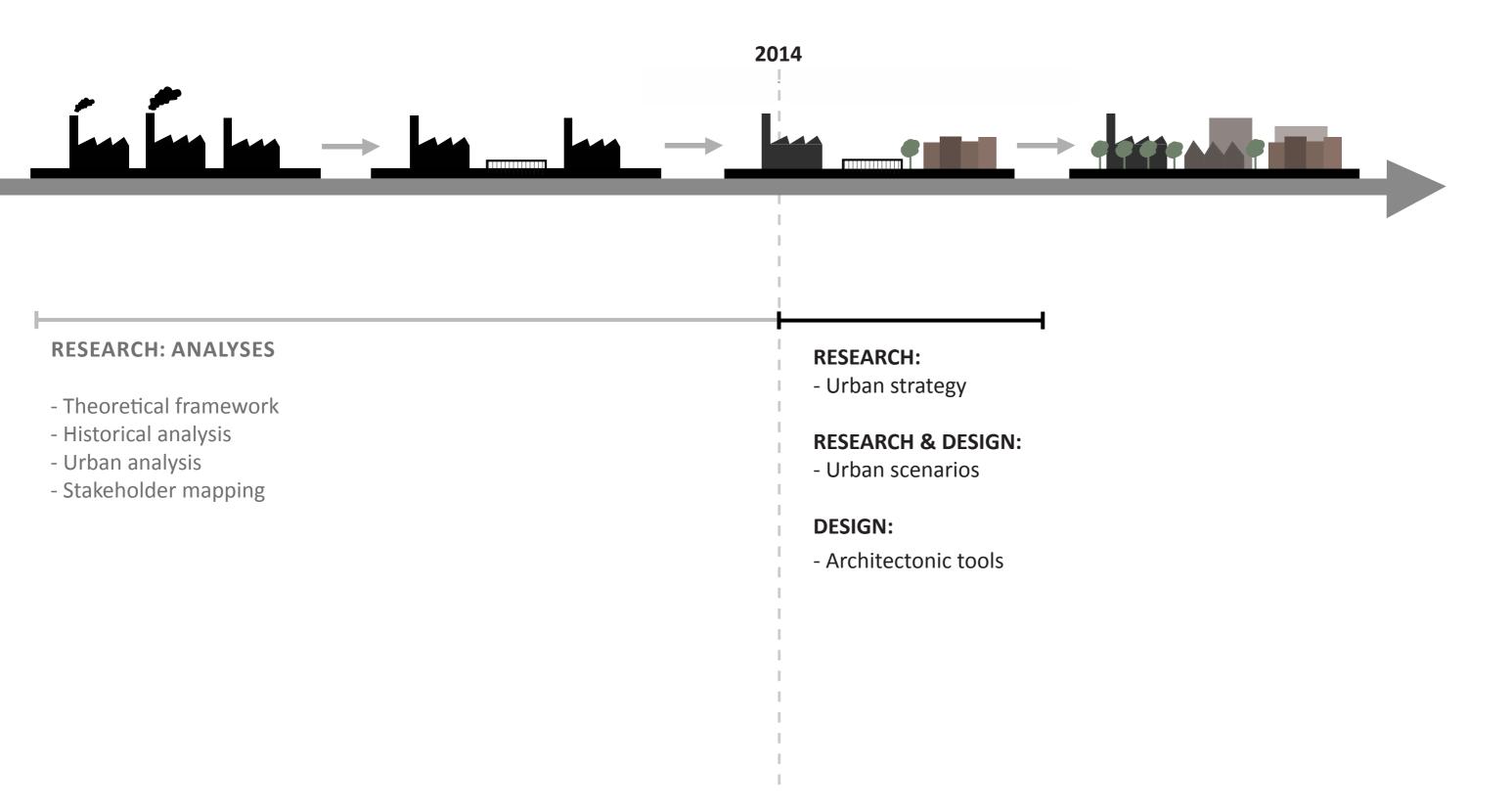
Buiksloterham in Transition 11 / 89



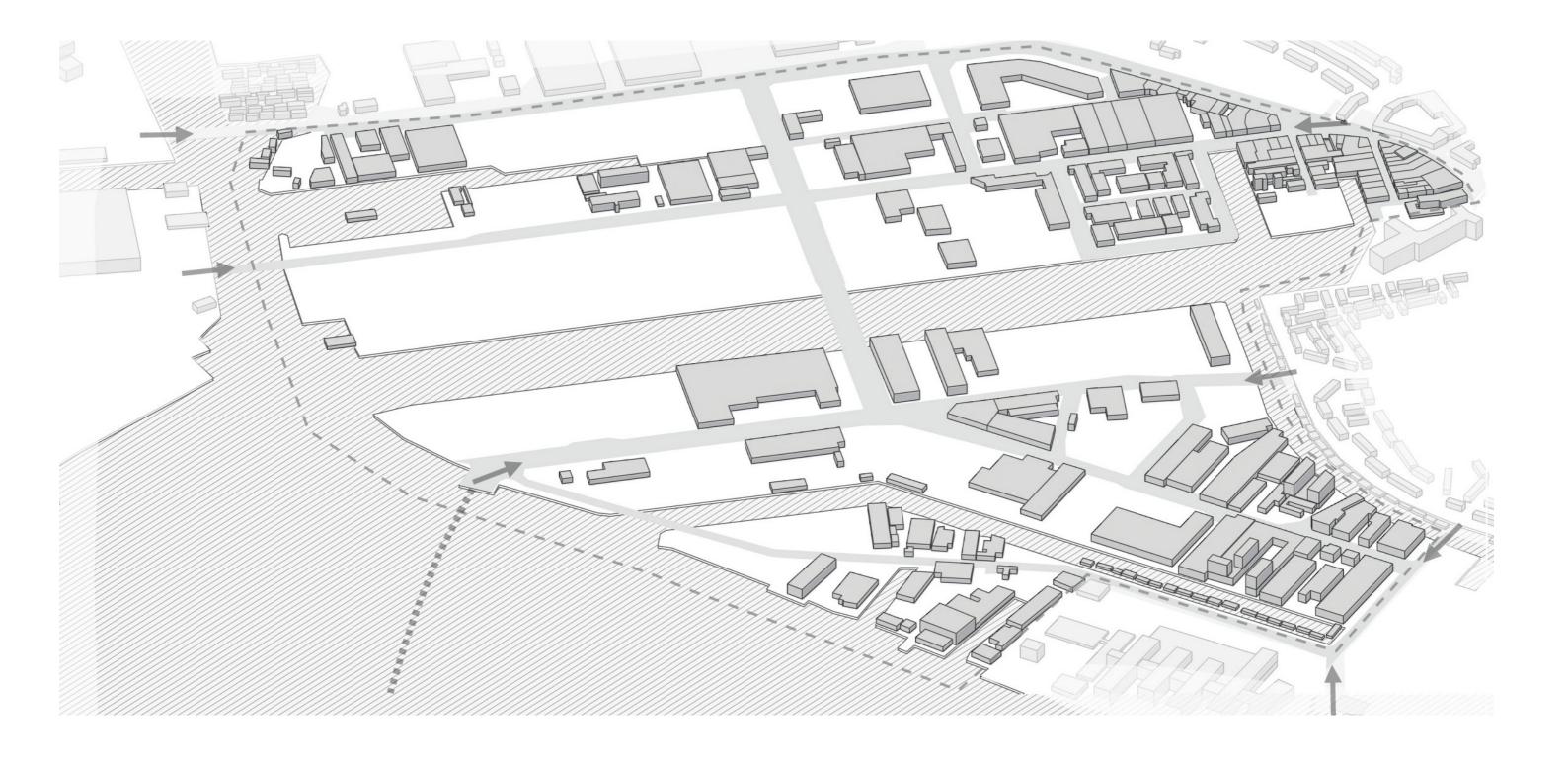
## Research and design goal

Produce a set of tools for the stakeholders of urban development in Buiksloterham, that supports and catalyzes the urban transition of the area.

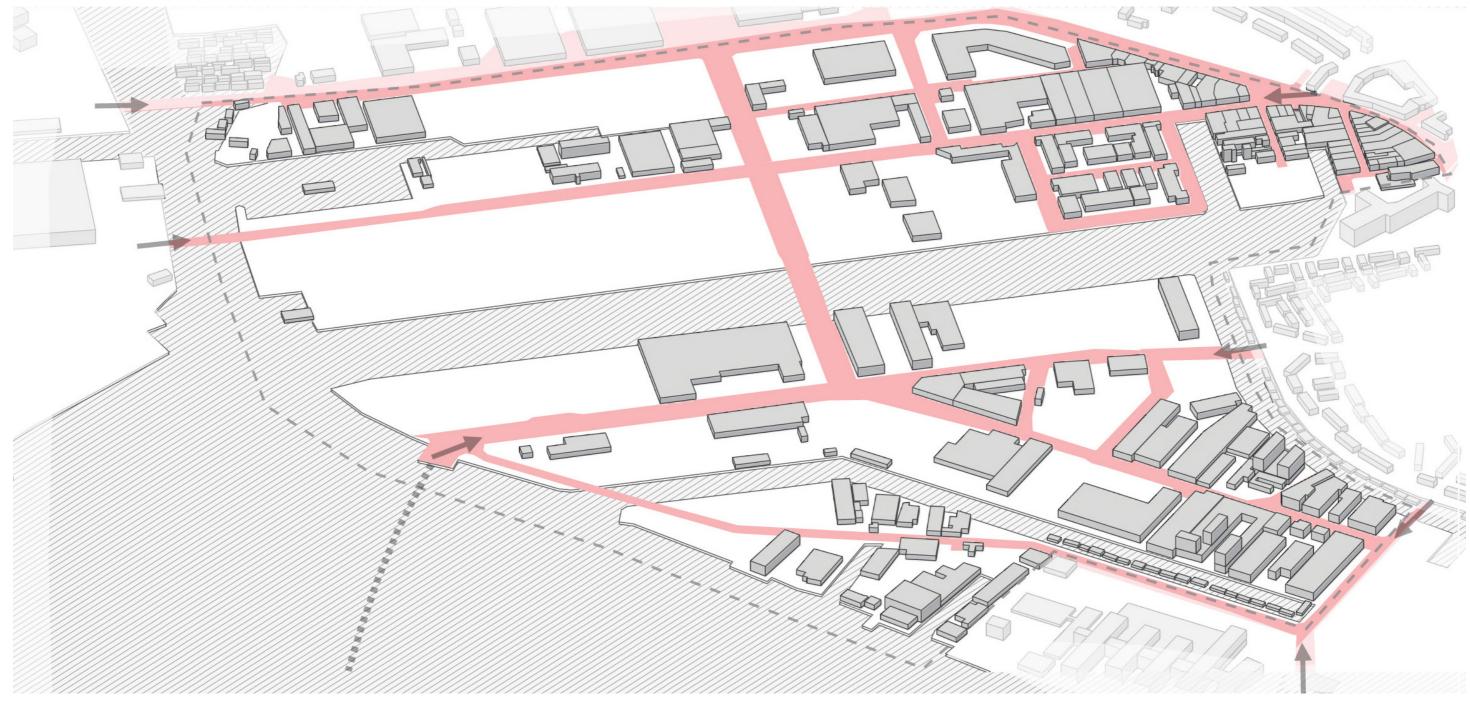
How can I develop an urban strategy for the stakeholders of urban development in Buiksloterham, as a tool that catalyzes the process of urban transition by supporting the transformation of the networks of public space, based on social and environmental principles and self-organization?



Research conclusions 13 / 89

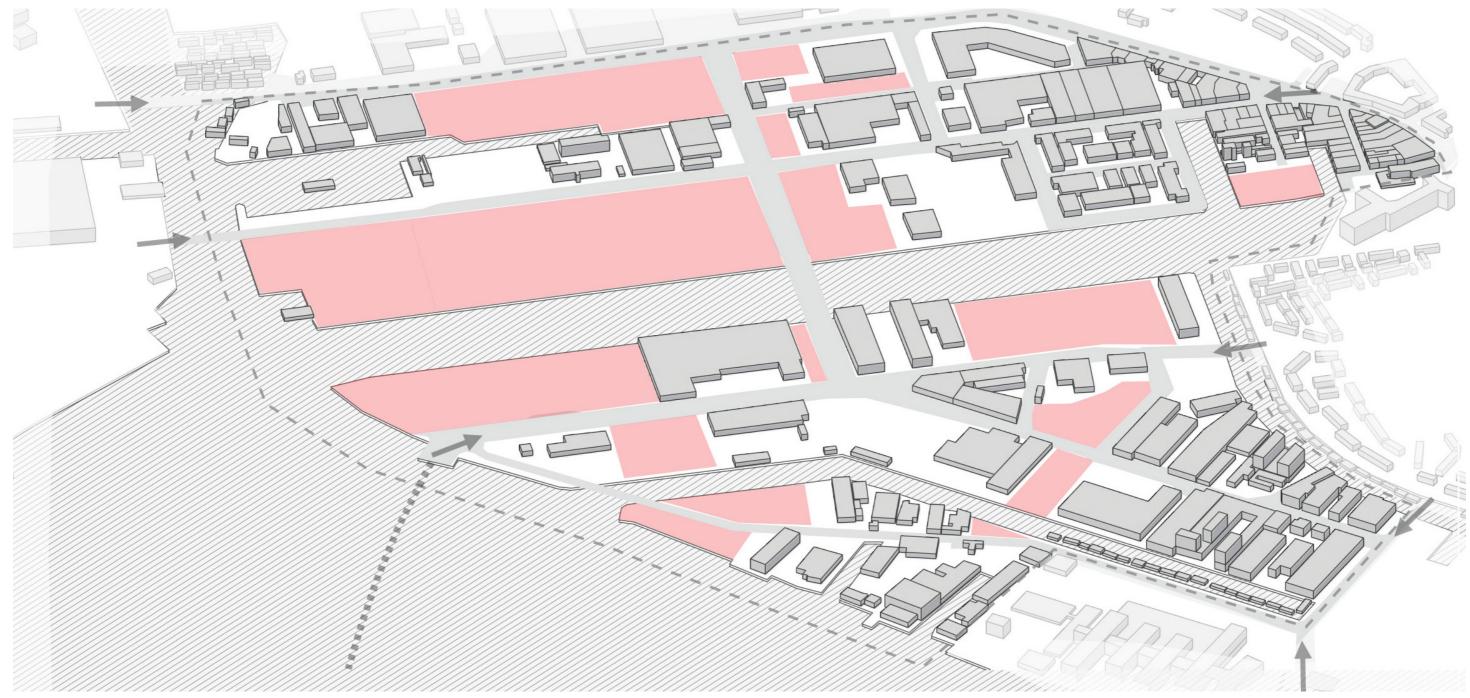


Research conclusions 14 / 89



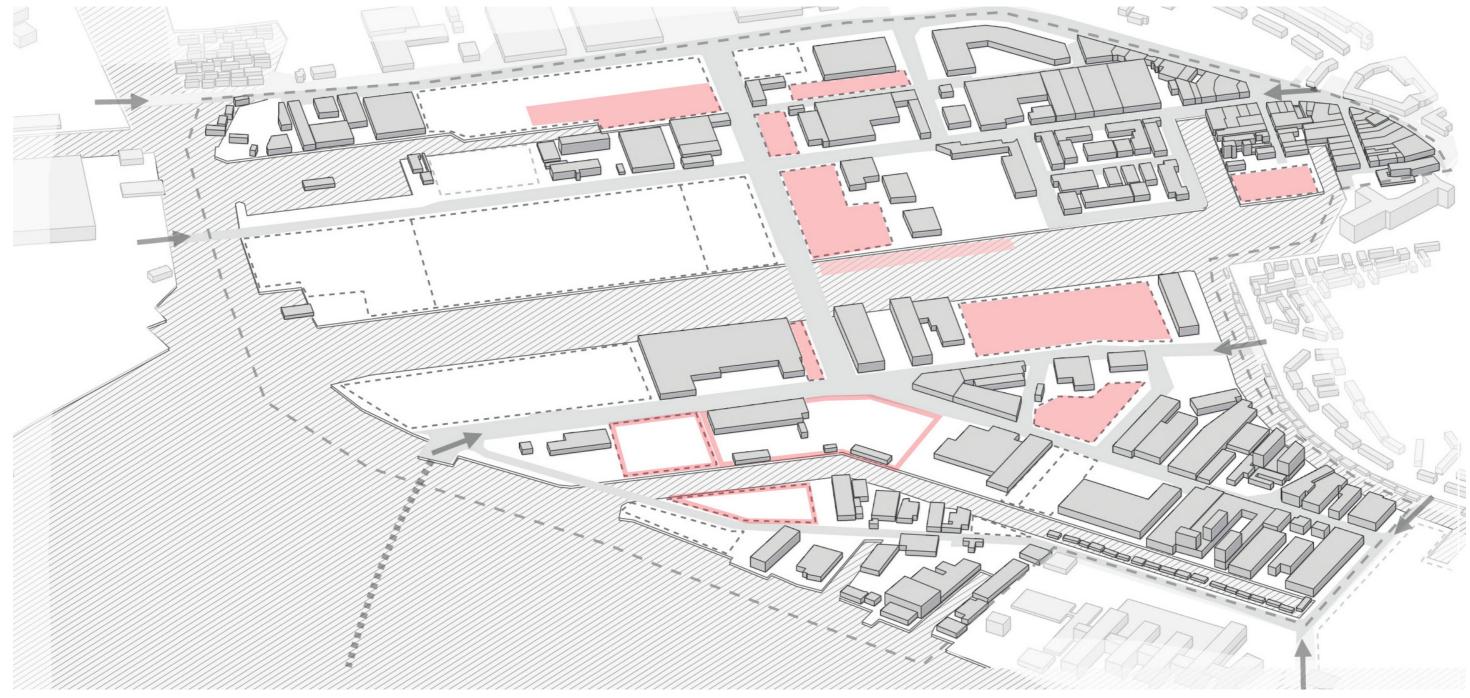
Post-industrial public space; water network and roads for industrial flows

Research conclusions 15 / 89

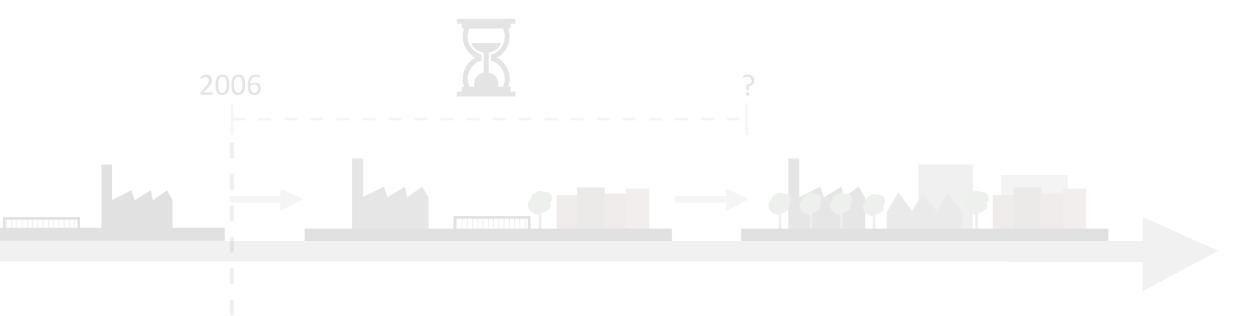


Post-industrial urban wastelands; surplus of vacant (polluted) grounds

Research conclusions 16 / 89



**Urban development; clustered & fragmented transformation** 



## **Buiksloterham Transition area**

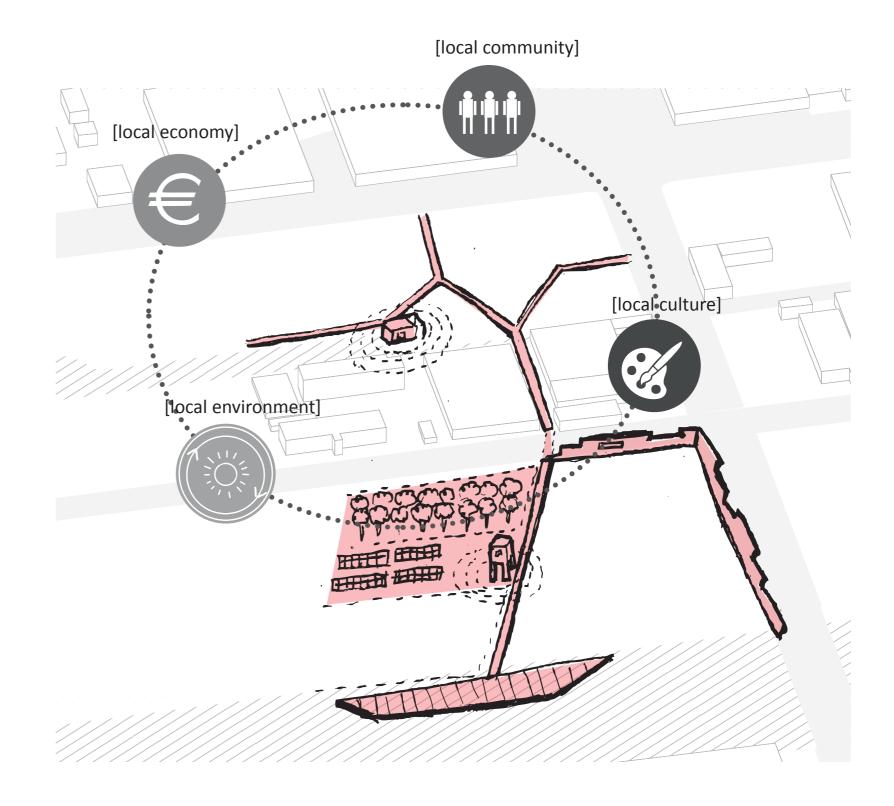
- Dynamic, unpredictable transformation context
- Spatial and organizational fragmentation; urban fragments and clusters of small-scale (informal) local initiatives as driver of developments
- **Economic crisis**; cutbacks on public space, stagnation traditional large-scale urban development, forced self-organization
- Active citizenship, sharing economy and sustainability as central themes

Urban strategy 18 / 89

#### **Buiksloterham Urban Transition Network**

Organizational and spatial framework, based on active citizenship, that deals with the economic crisis and the dynamic urban context, a model for;

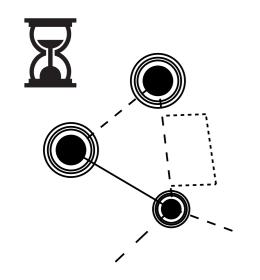
flexible and participative urban development focussing on the transformation of the networks of public space



19 / 89 **Urban strategy** 



NODES; centers of activity

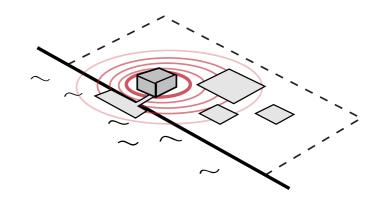


**EVOLVING NETWORK** of temporary public spaces



LINES; movements, routes, connections





**ACTIVATING WASTELANDS** & CONNECTING URBAN FRAGMENTS

FIELDS; parks, urban farming, energy production

Temporary architecture as urban catalyst

- Crisis architecture: low-cost, big impact
- Flexible, adaptable, mobile

#### **Goals:**

- Attract new inhabitants, entrepreneurs, investments, building projects
- Support neighborhood life in state of transition



Open Lab Ebbinge - Groningen (source: Prima Focus 2014)

2016

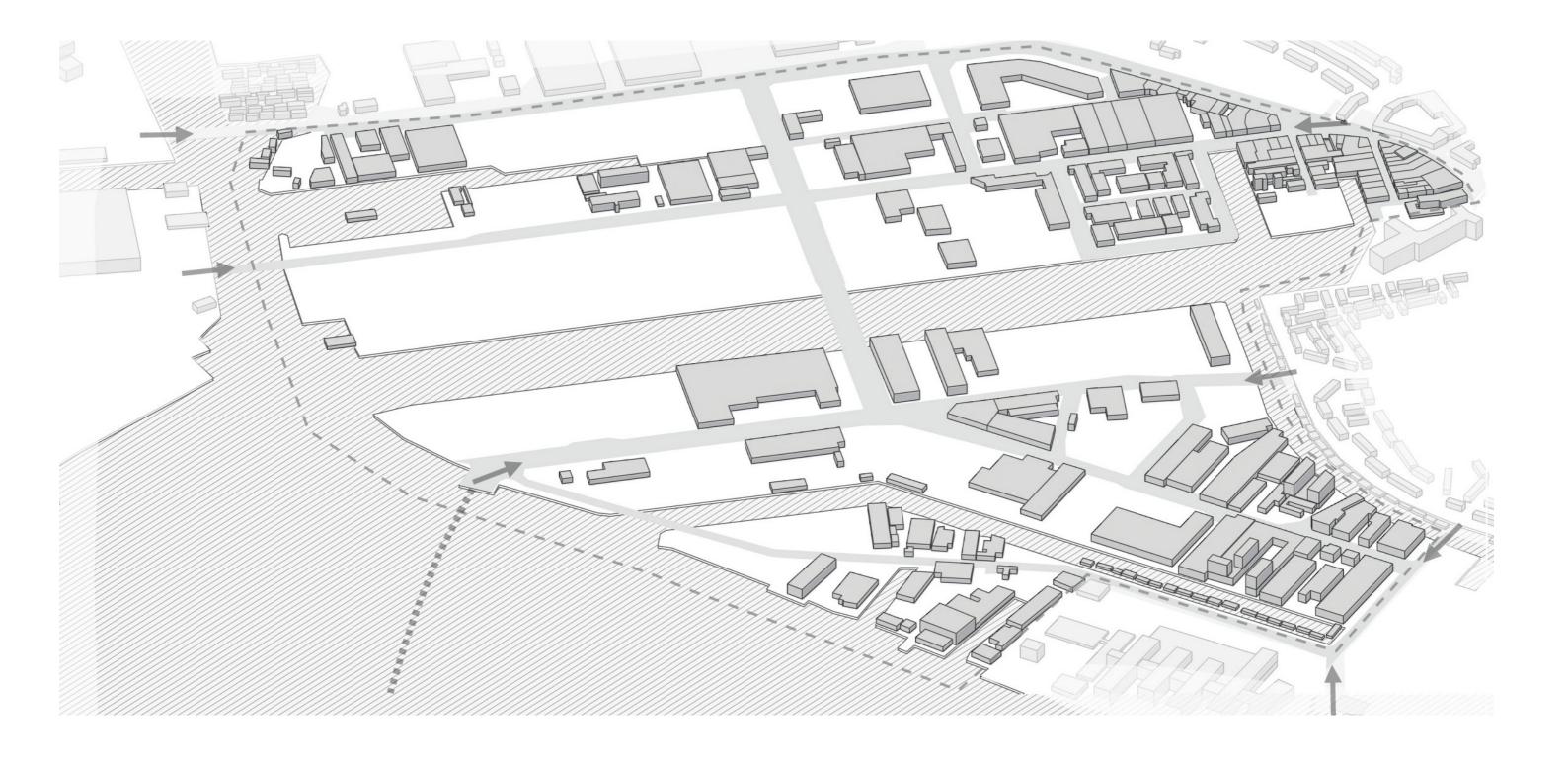
2026

PILOT PROJECT - 10 YEARS

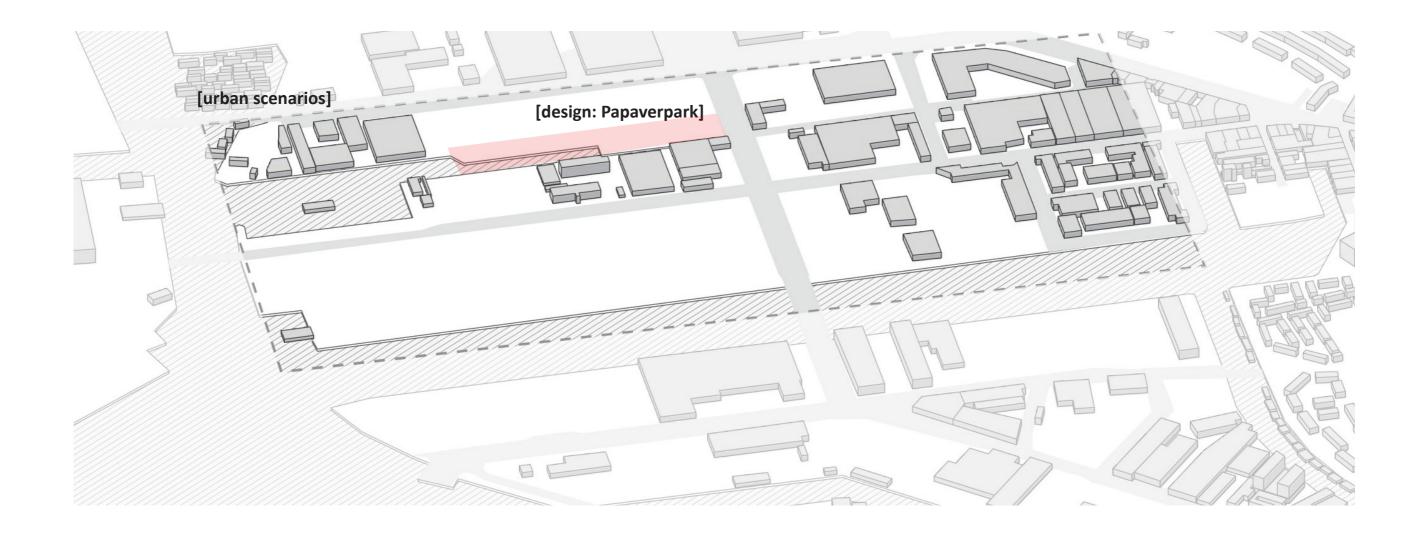
Papaverpark Transition Lab (architectonic design)

DISSEMINATION
Buiksloterham Urban Transition Network (urban scenarios)

Urban scenarios 22 / 89

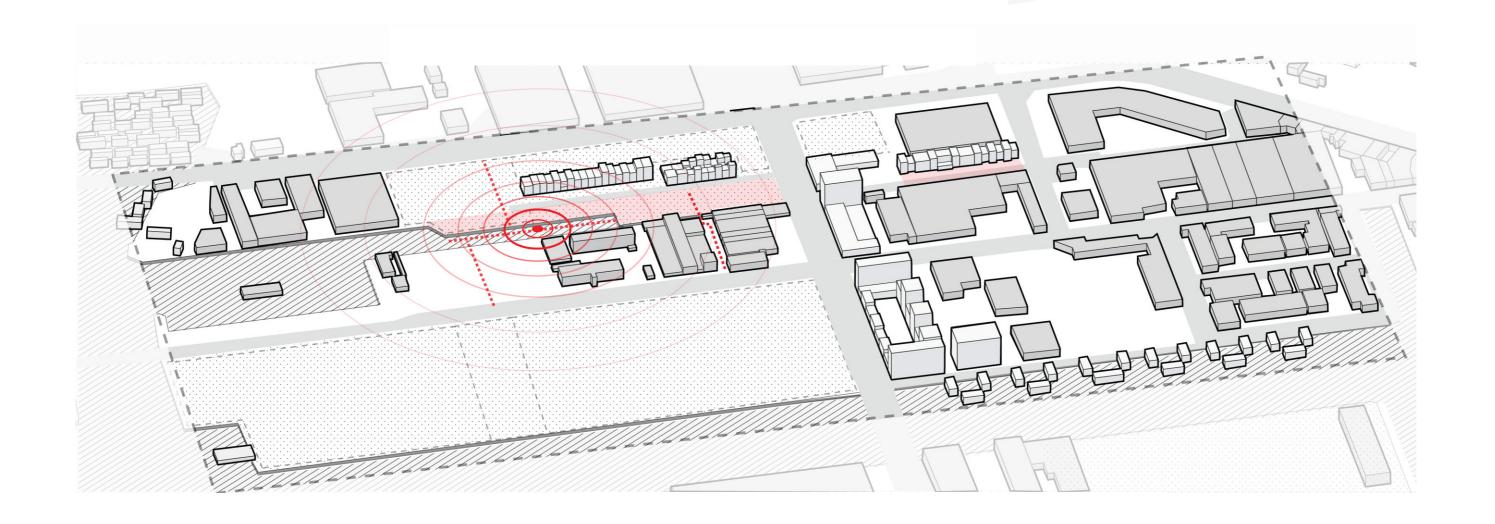


Urban scenarios 23 / 89



Urban scenarios 24 / 89





Urban scenarios 25 / 89

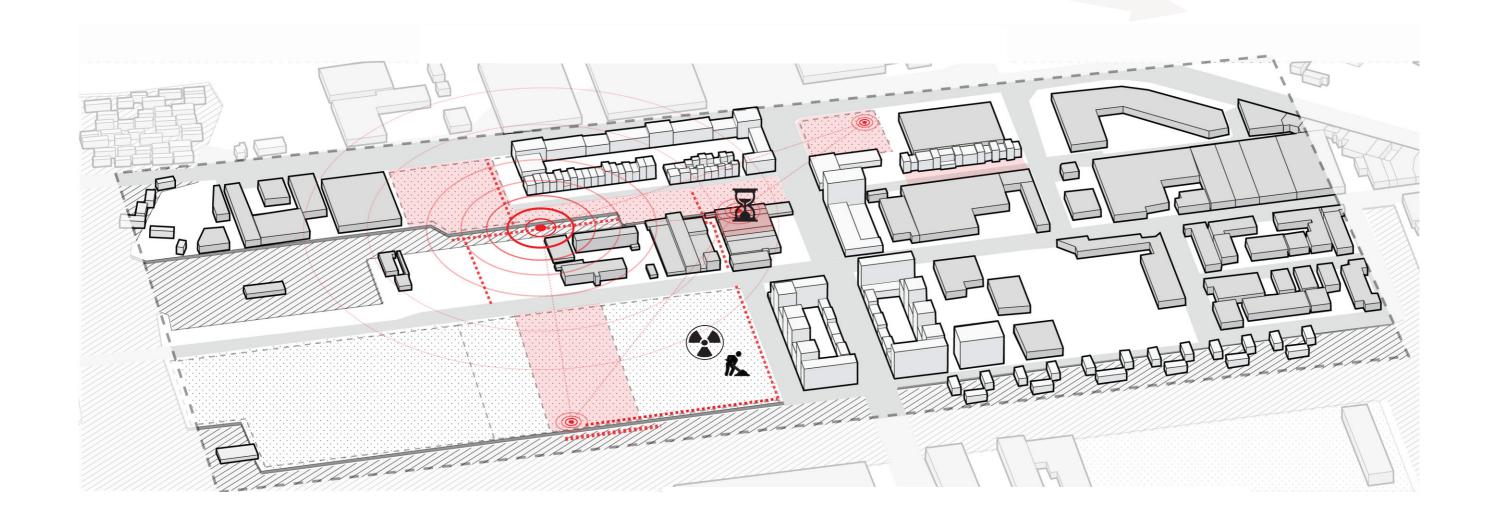
2016

PILOT PROJECT PAPAVERPARK

2026

2028: Gradual transformation

DISSEMINATION TRANSITION NETWORK

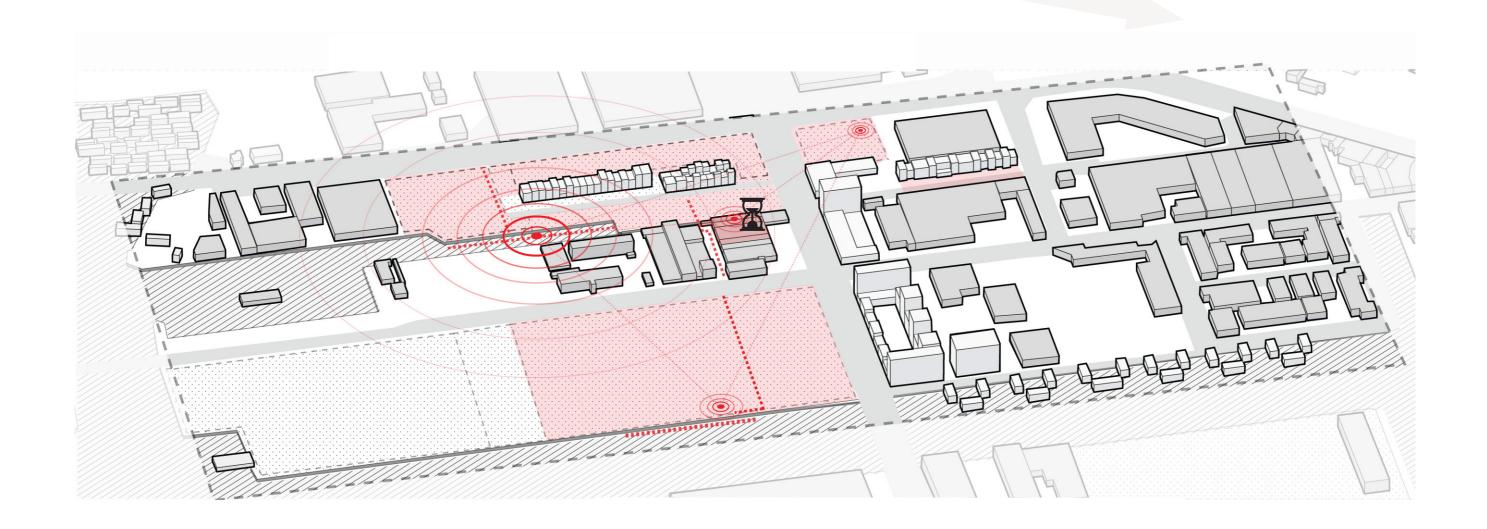


Urban scenarios 26 / 89

2028: Stagnation: Double dip recession

2016 2026

PILOT PROJECT PAPAVERPARK DISSEMINATION TRANSITION NETWORK



Urban scenarios 27 / 89

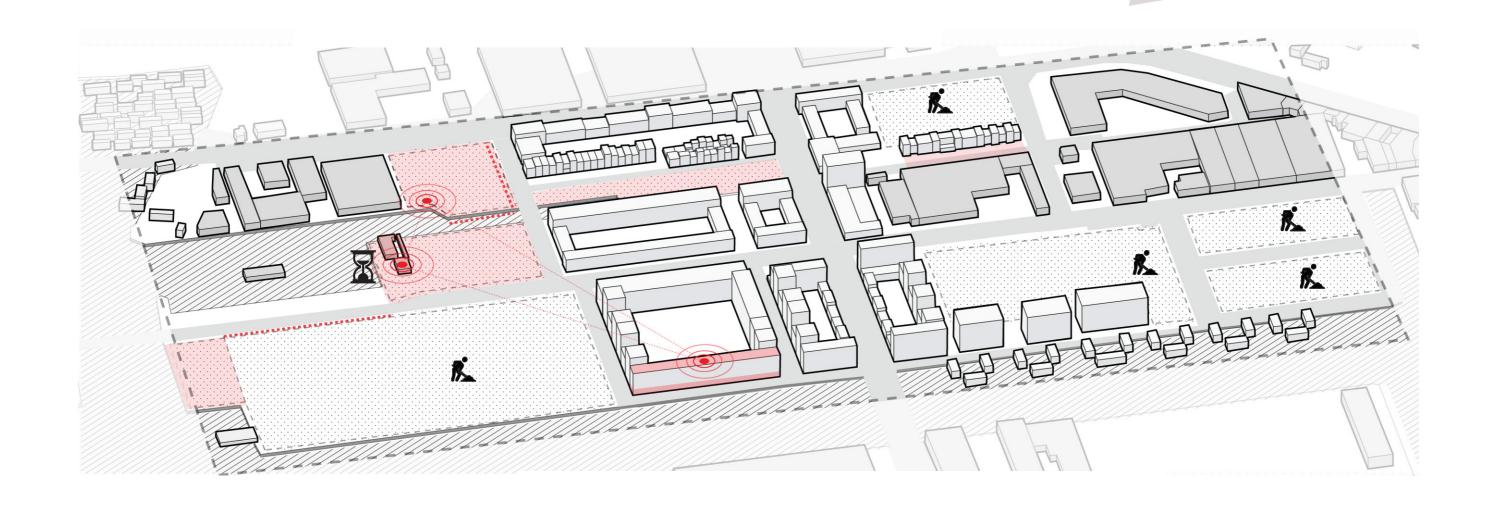
2016

PILOT PROJECT PAPAVERPARK

2026

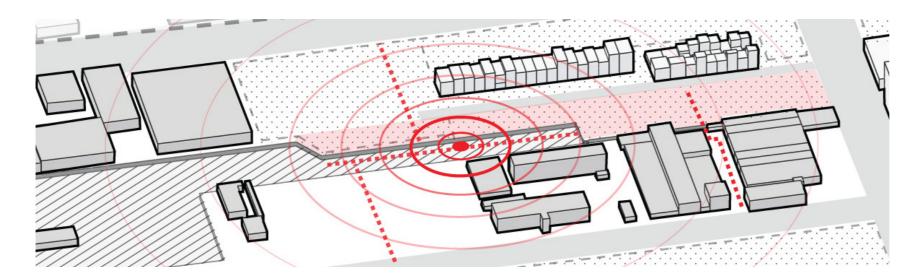
**DISSEMINATION TRANSITION NETWORK** 

2028: Economic growth





2026



- Focus design project on a temporary public building in the Papaverpark, the first public space to be realized in the area
- The goal is to design a <u>CATALYST FOR URBAN DEVELOPMENT</u> in Buiksloterham, for use in the early phase of transition
- To achieve this goal, architecture is interpreted as an open, flexible framework as support for local initiatives



2026

# PHASE 1 Information and event center Buiksloterham in Transition

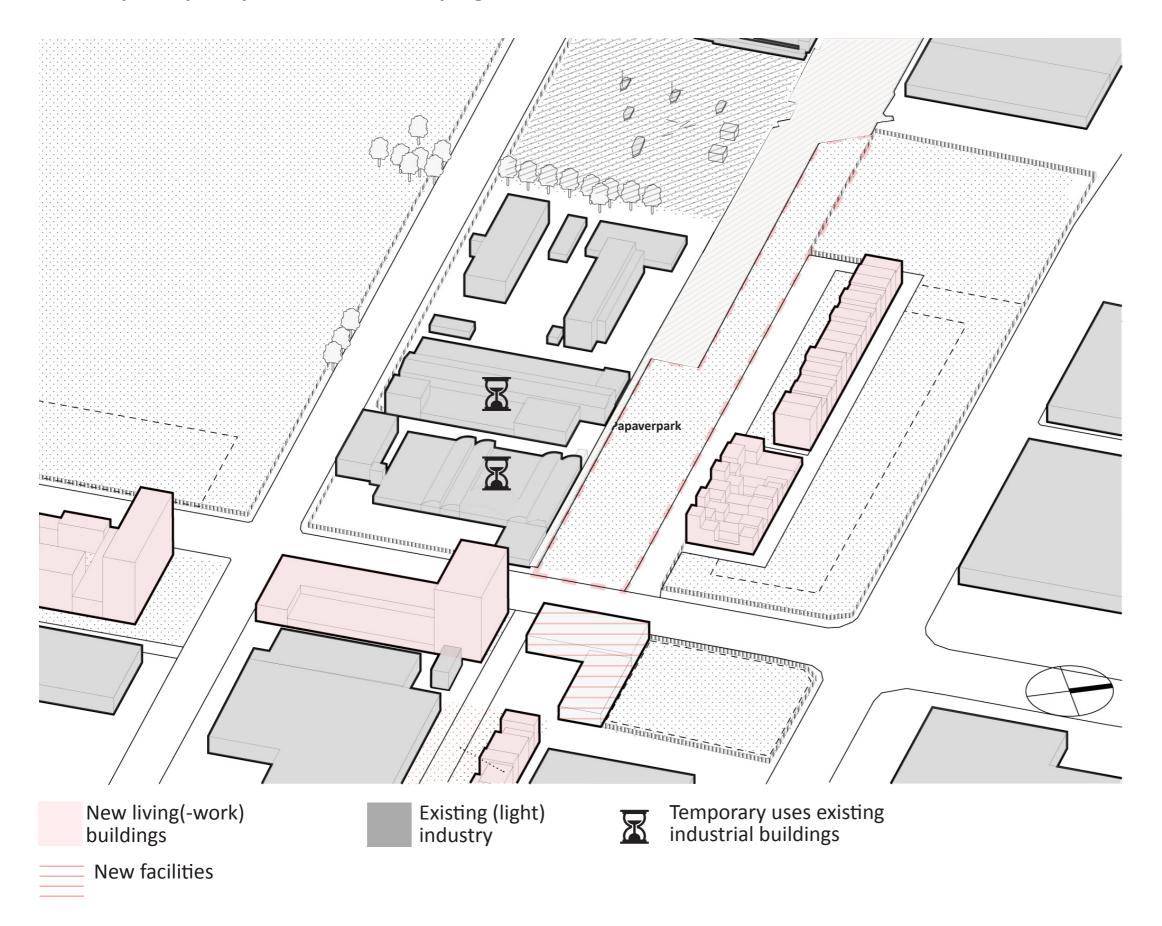
A place where all stakeholders of urban development in Buiksloterham can meet, discuss, receive and spread information, give lectures and workshops

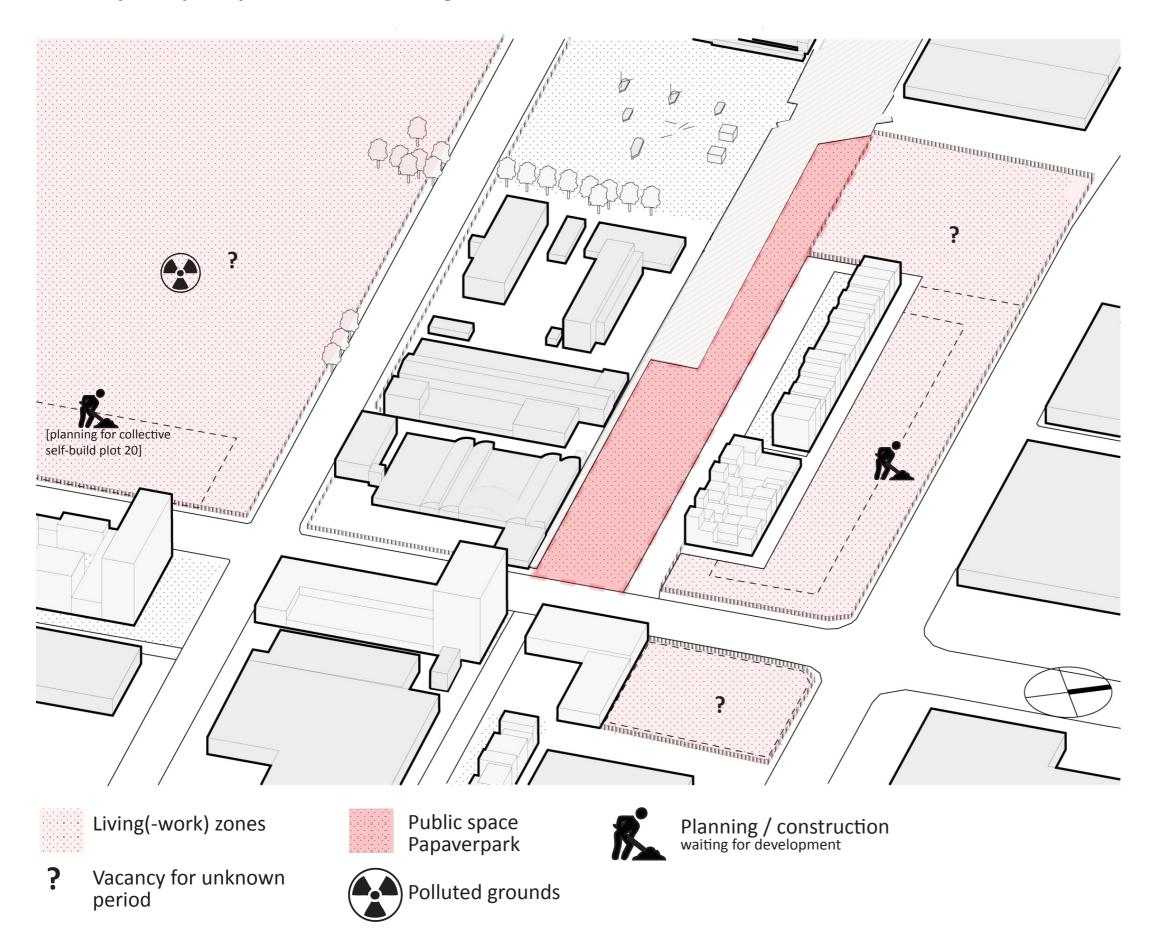
# PHASE 2 Incubator of local start-ups

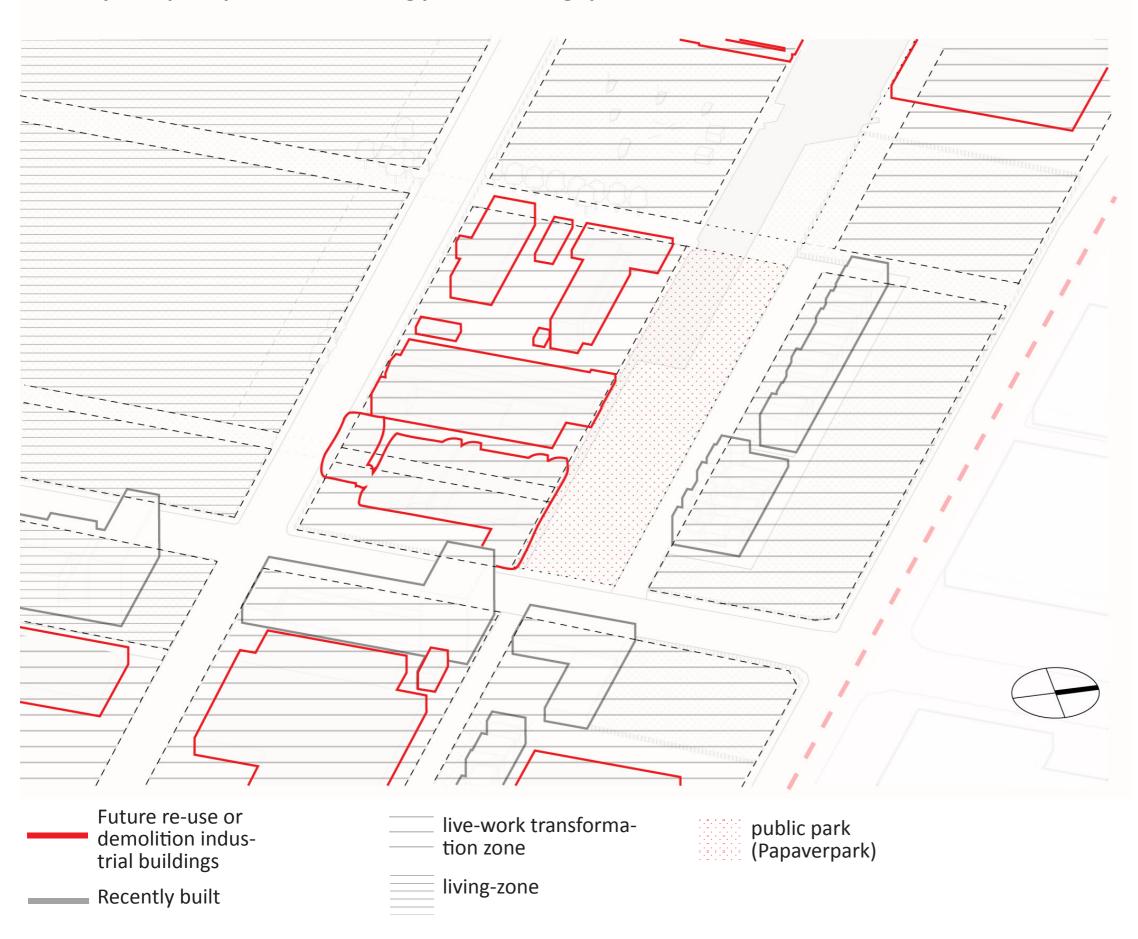
In a later phase, start-ups such as pop-up stores, flexible work places, cafes, urban farming, ateliers, can join

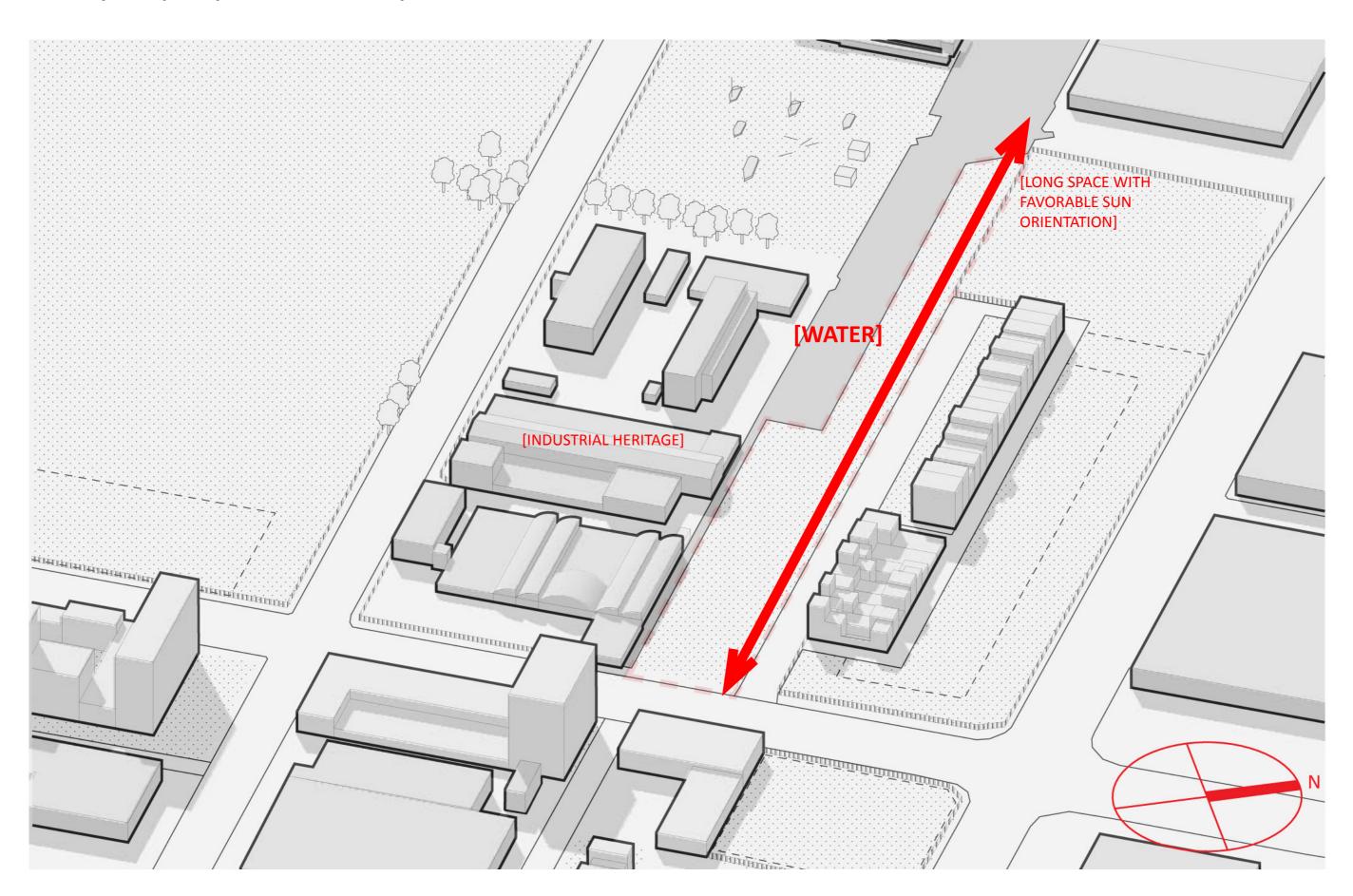








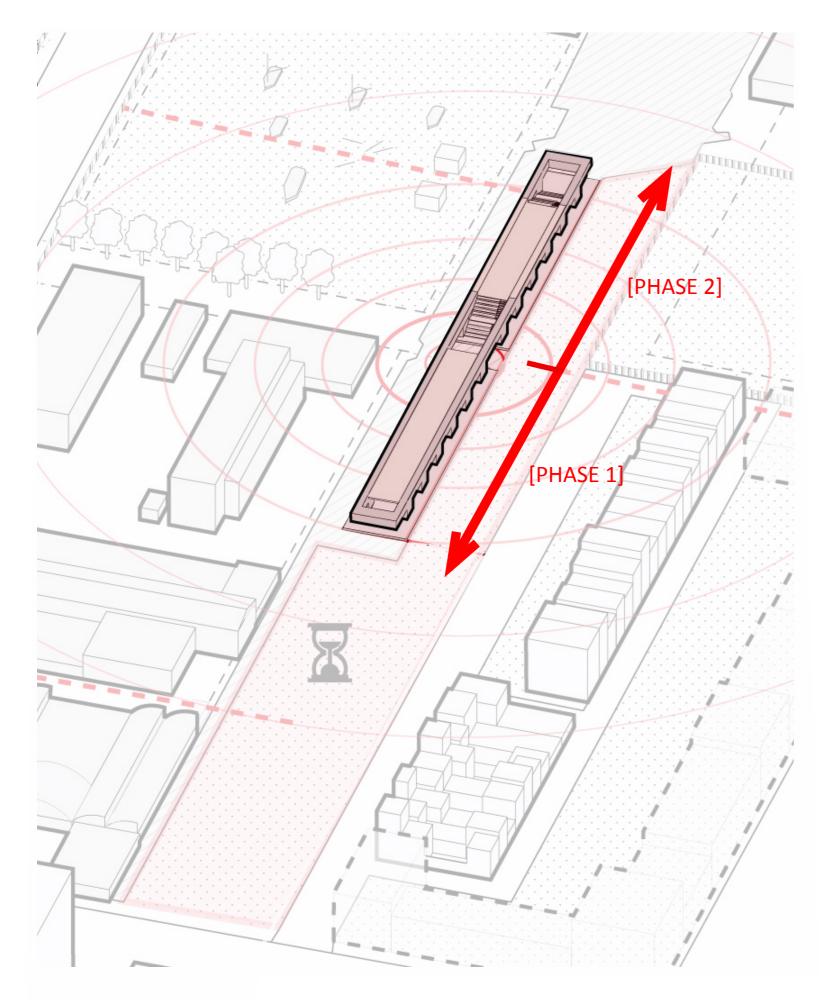






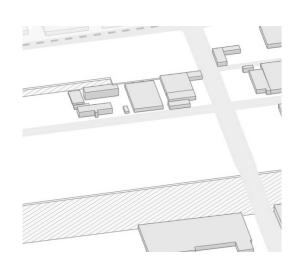


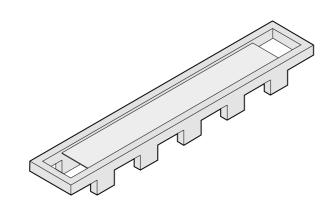
Building concept: urban scale

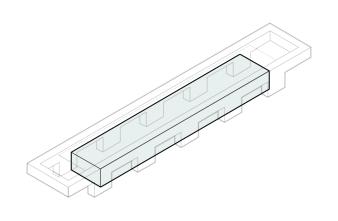


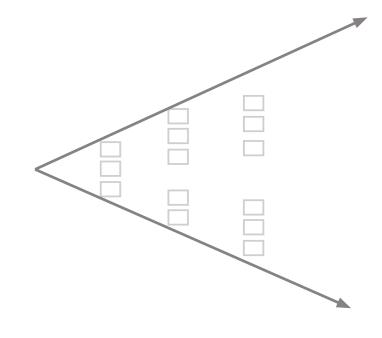
- Rectangular building on the water; a mobile structure, based on a system of modular expansion
- Relation to industrial history; repetitive industrial form language and the building manifests similarly to former industrial boats on the location
- The space of the park remains free to experiment with different types of urban program, such as sports fields, urban farming, greenery and leisure.

Building system - concept









[CONTEXT URBAN
TRANSITION AREA]

The role of the temporary structure in the transition process, determined by the location, program, actors, and the budget

[FRAME]

IFD building

project

(Industrial, Flexible,

Demountable) Using

affordable standardized

can be re-used after the

building products that

•

[INFILL]

+

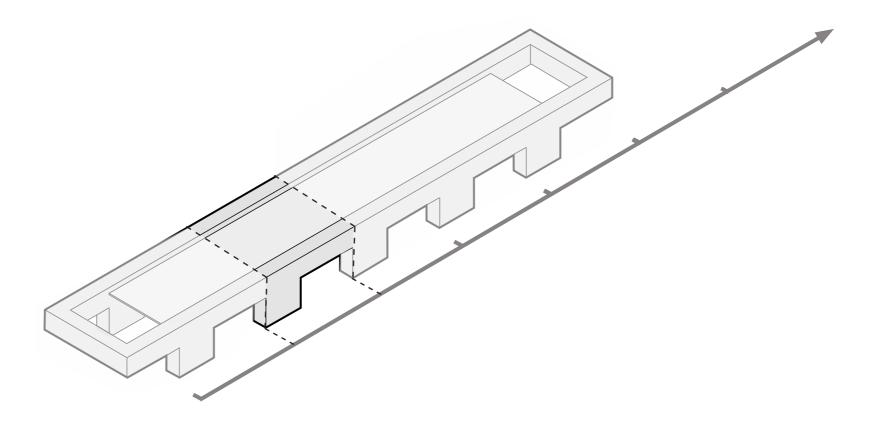
Multi-use spaces, multi-use elements and movable elements ensure flexibility in use

[ METHOD TIME-BASED INTERVENTIONS]

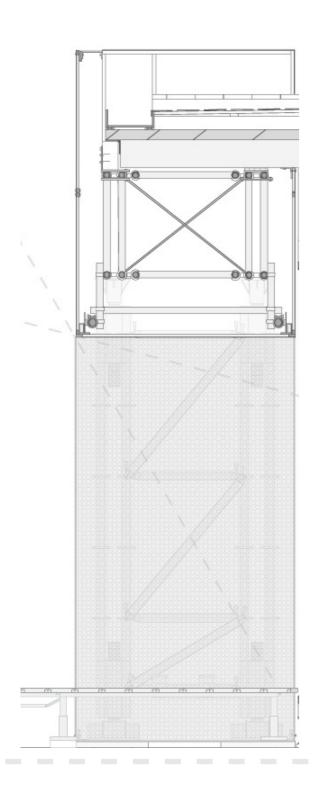
The building is developed in phases, step by step, using a multi-optional time-line method, to ensure flexibility and participation throughout the building life cycle

[SYSTEM FOR PRODUCTION ARCHITECTONIC TOOLS FOR FLEXIBLE, PARTICIPATIVE URBAN TRANSITION]

Building system - frame

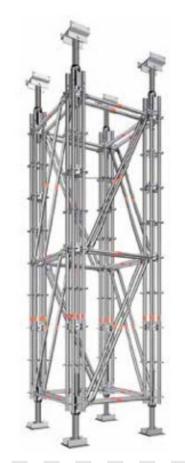


[ MODULAR EXPANSION FRAME-CONSTRUCTION ]









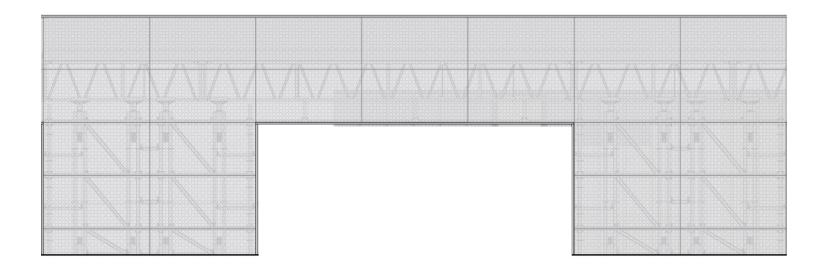
- Quantum Deck Floor (TATA Steel);
 relatively lightweight steel/concrete floor

- Scaffolding trusses, steel (Layher); multiple trusses combined with distancers to form strong spatial trusses

- Scaffolding tower, steel (Layher); two towers combined

- Foundation type

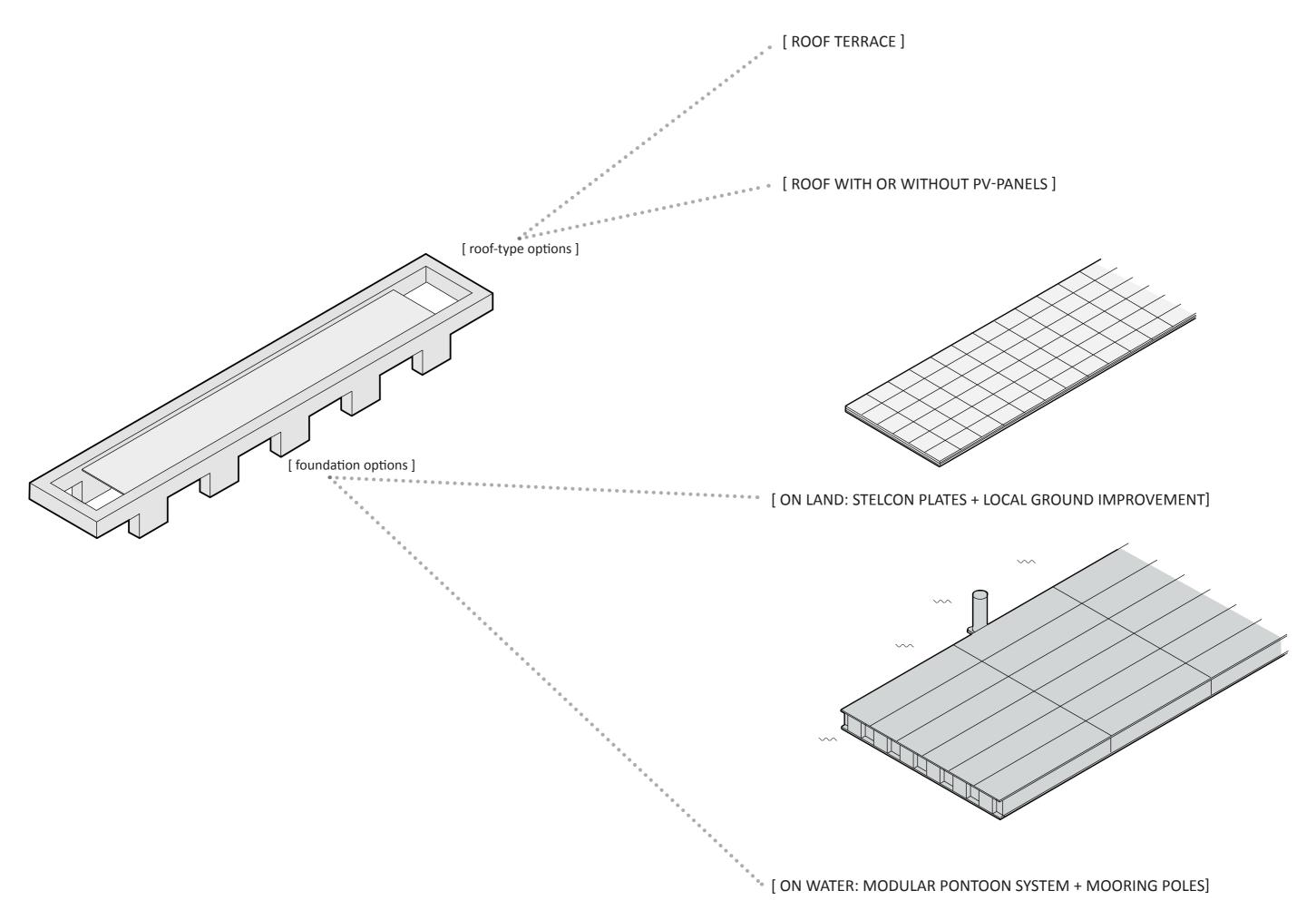


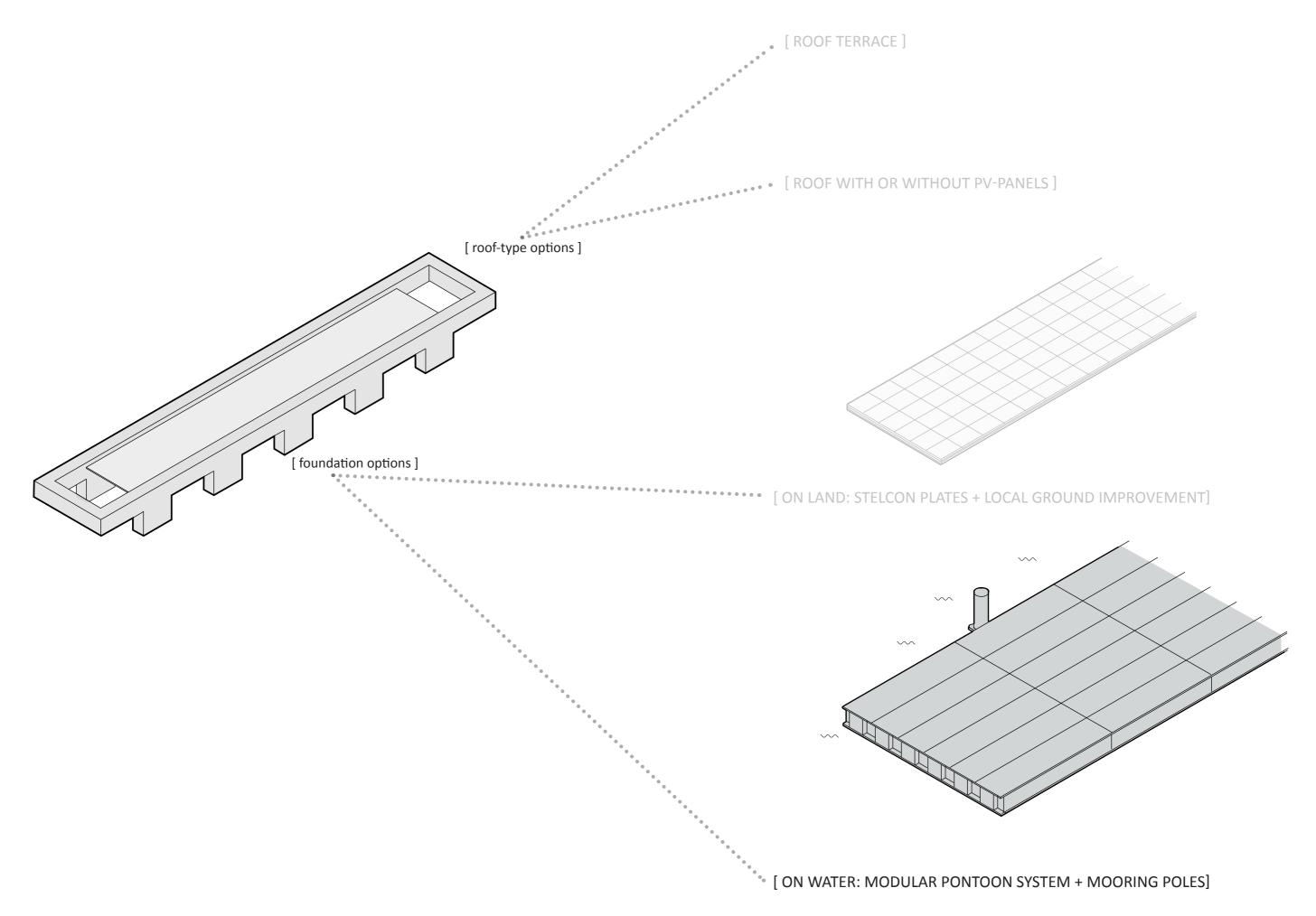


- The construction is cladded with perforated metal sheets , to function as sun shading and to unify the building image of a transparant, open framework

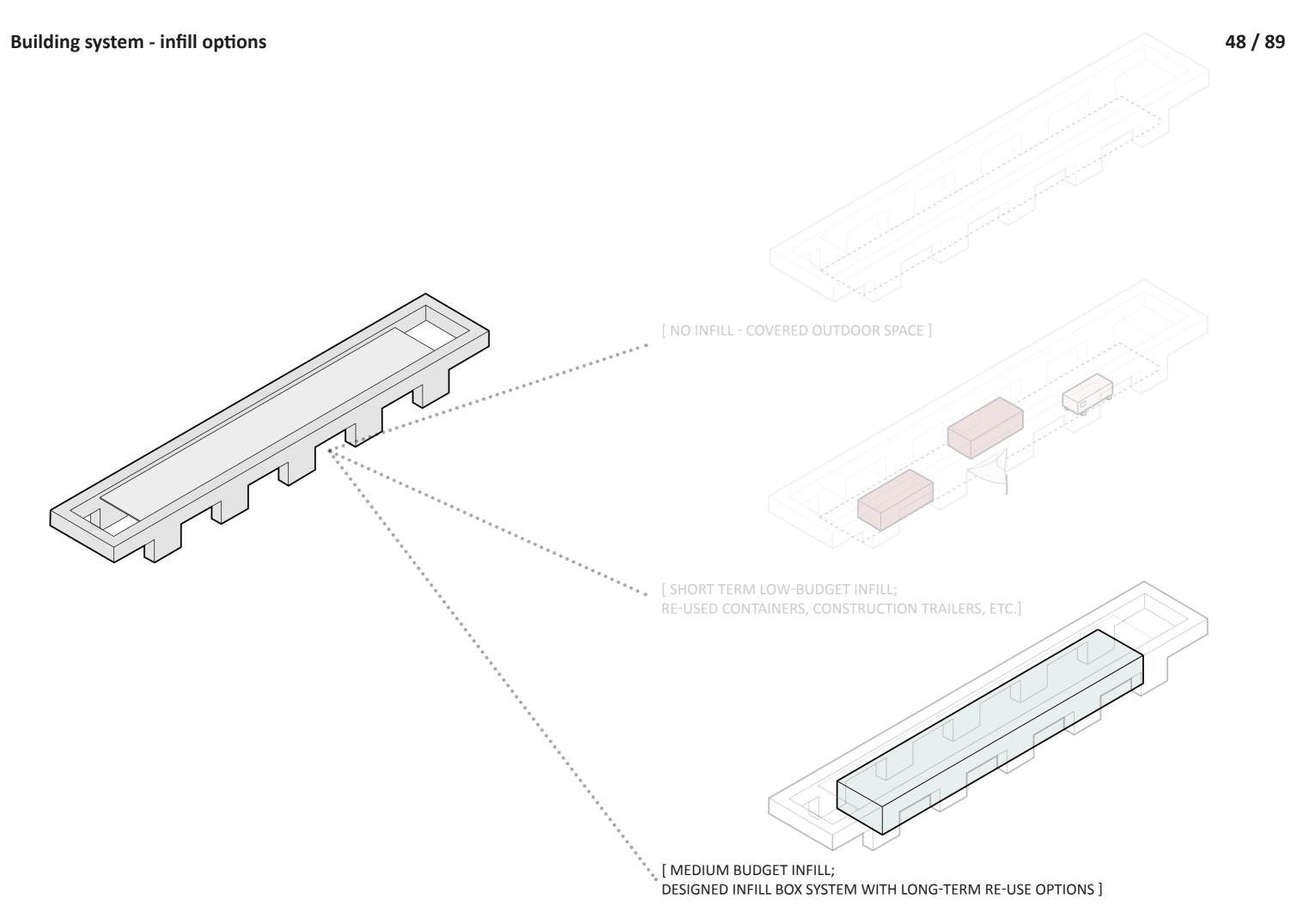


source: Derksen/Windt architecten











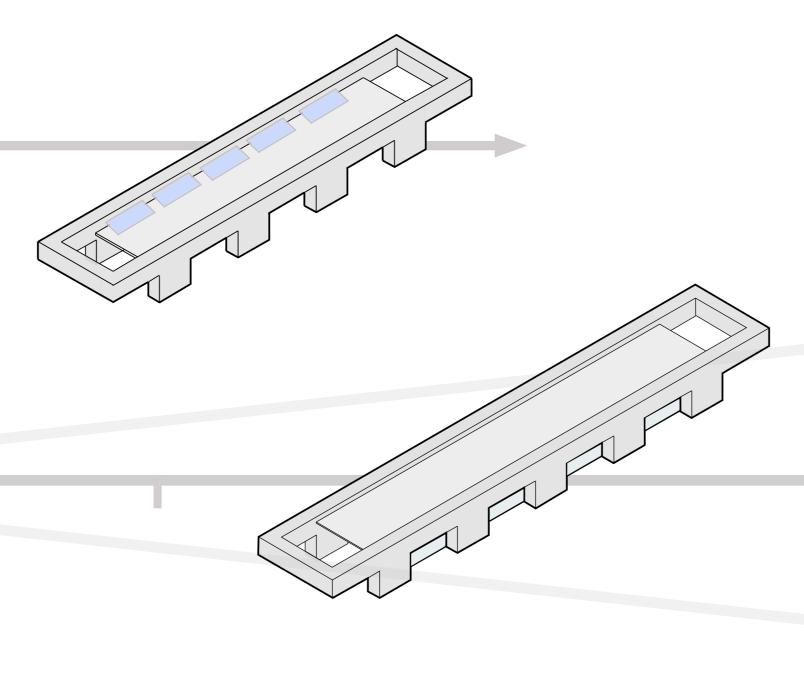


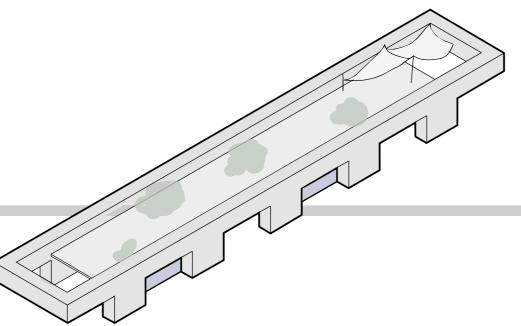
[ OUTDOOR CONSTRUCTION WORKSHOP]

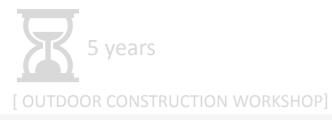


[ URBAN CATALYST PAPAVERPARK ]



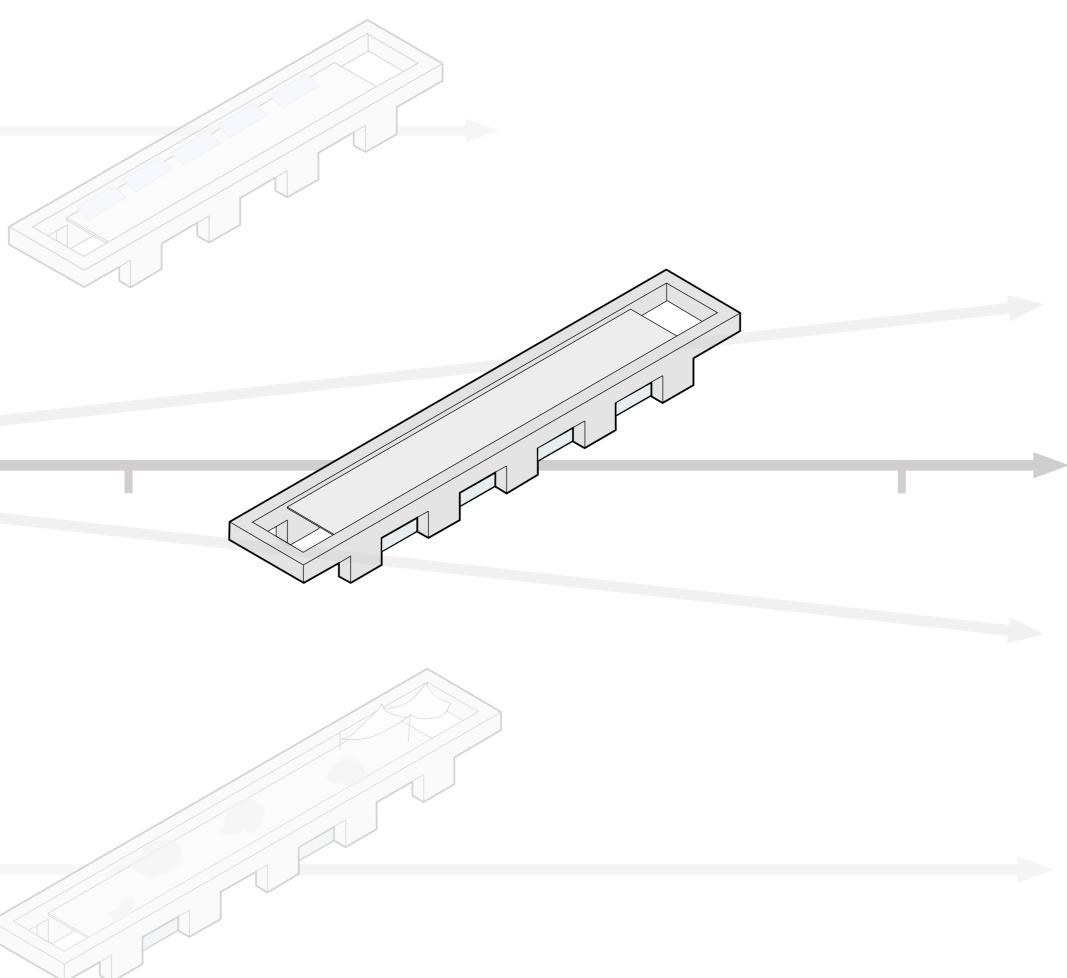












- Reduced financial risks in phased investments
- Integrating neighborhood participation during the entire life-cycle of the building
- Responding to the dynamics of the site

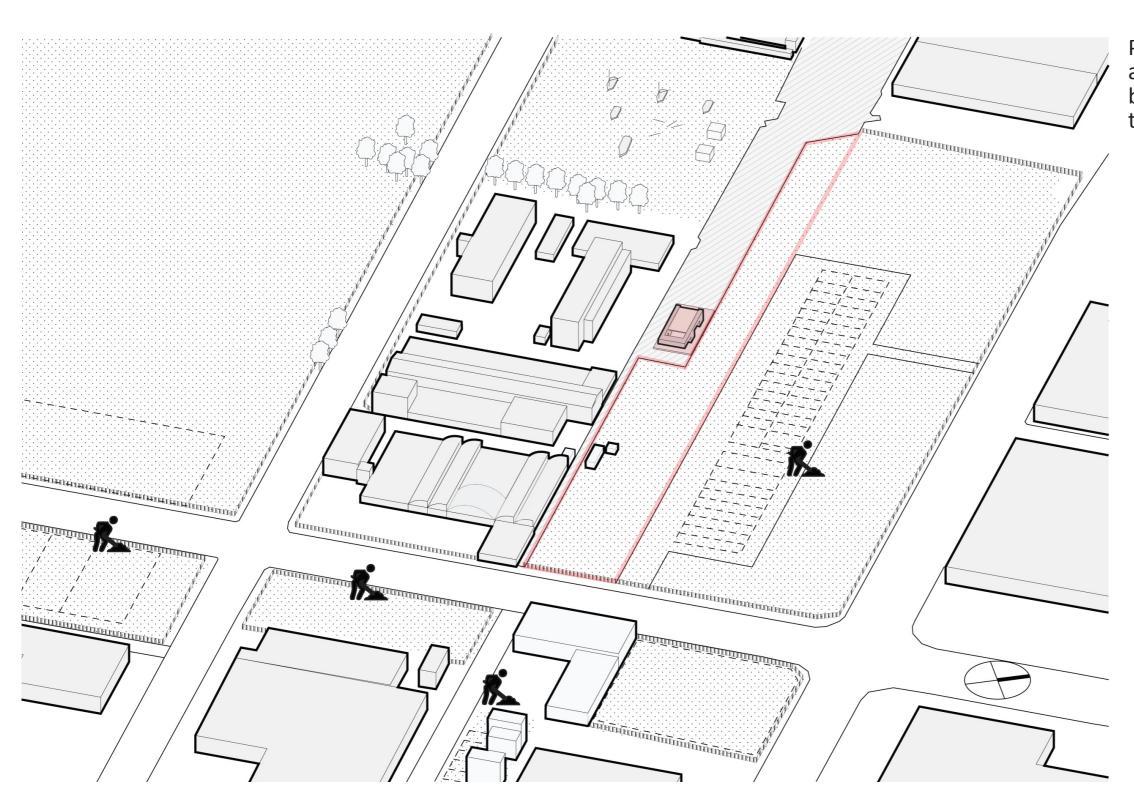
center



[ URBAN CATALYST PAPAVERPARK ]

	2016	2018	2026
PHASE 0 PROTOTYPE	PHASE 1 ACTIVATION	PHASE 2 TRANSITION PLATFORM	PHASE 3 LIFE CYCLE
	Multi-use information	Incubator local start-ups	ASSESSMENT

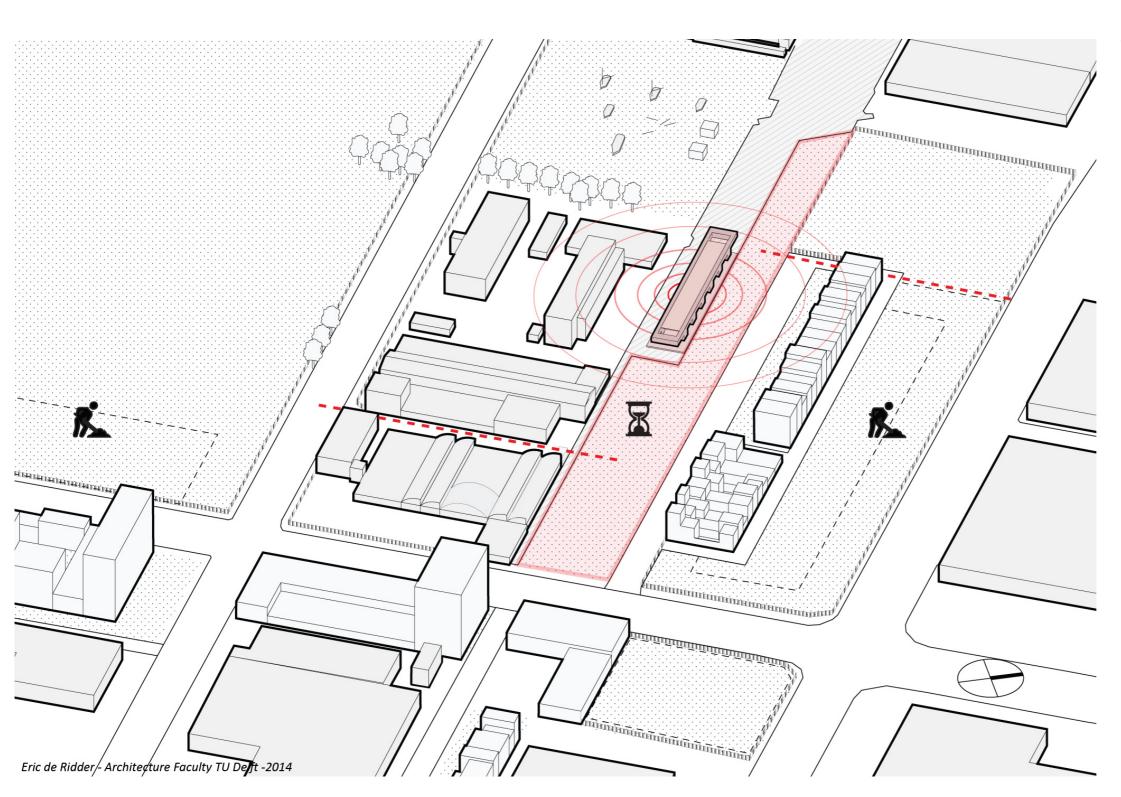




Prior to the start of the project, a prototype is built, sponsored by the companies that provide the building materials

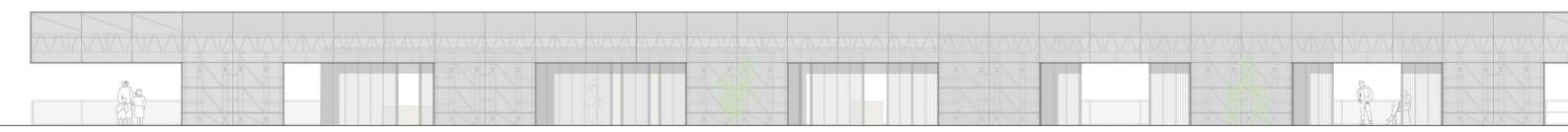
Phase 1 - activation 54 / 89

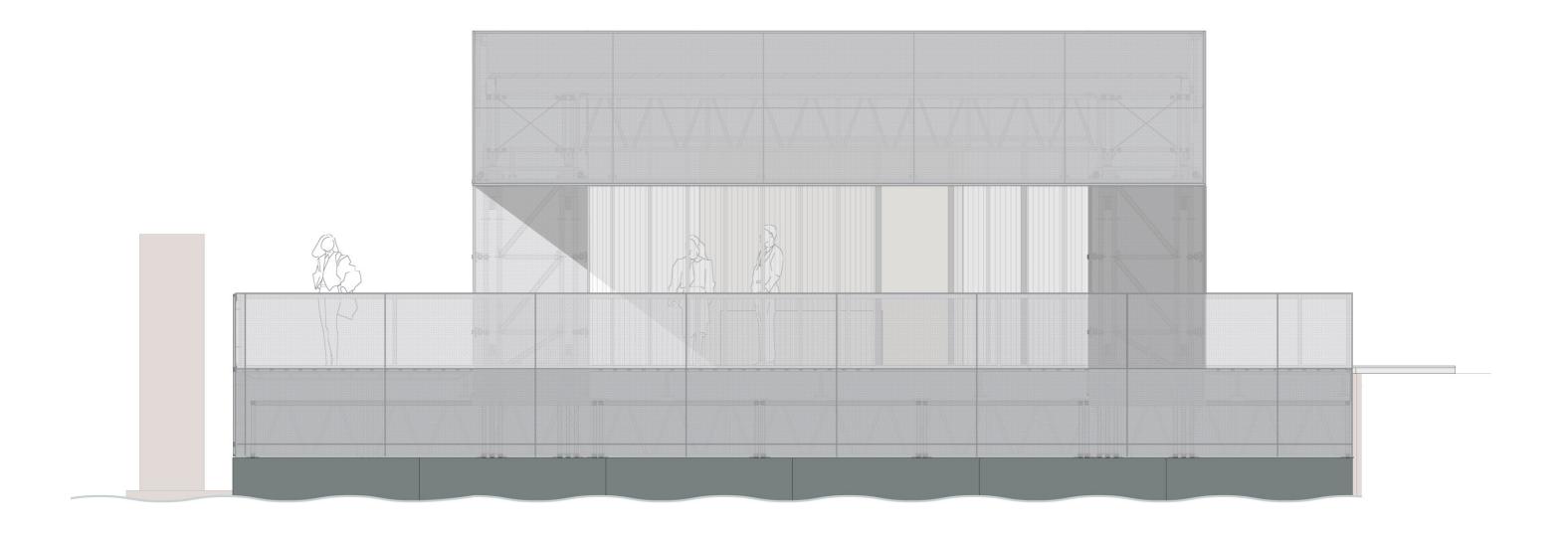


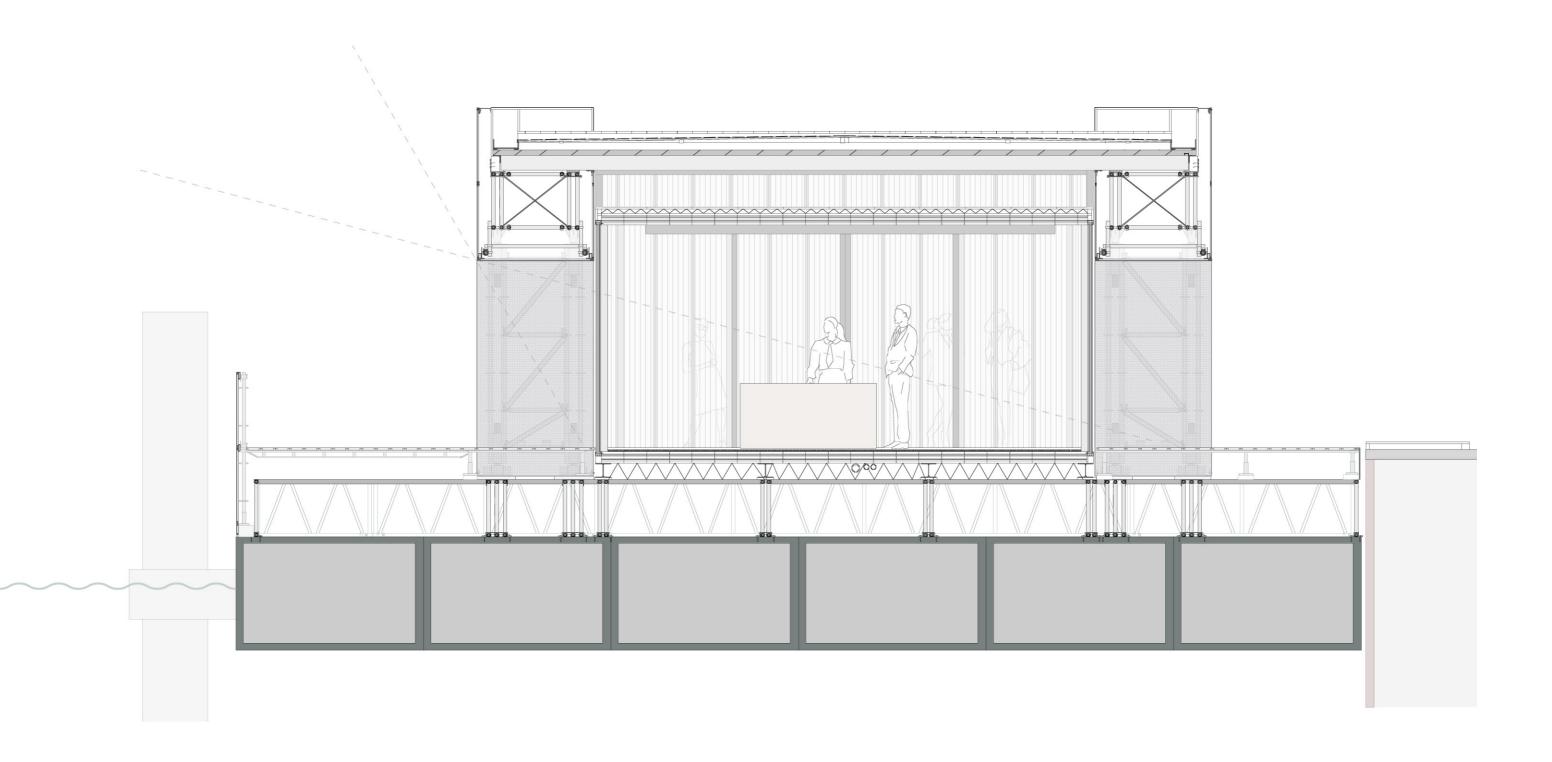


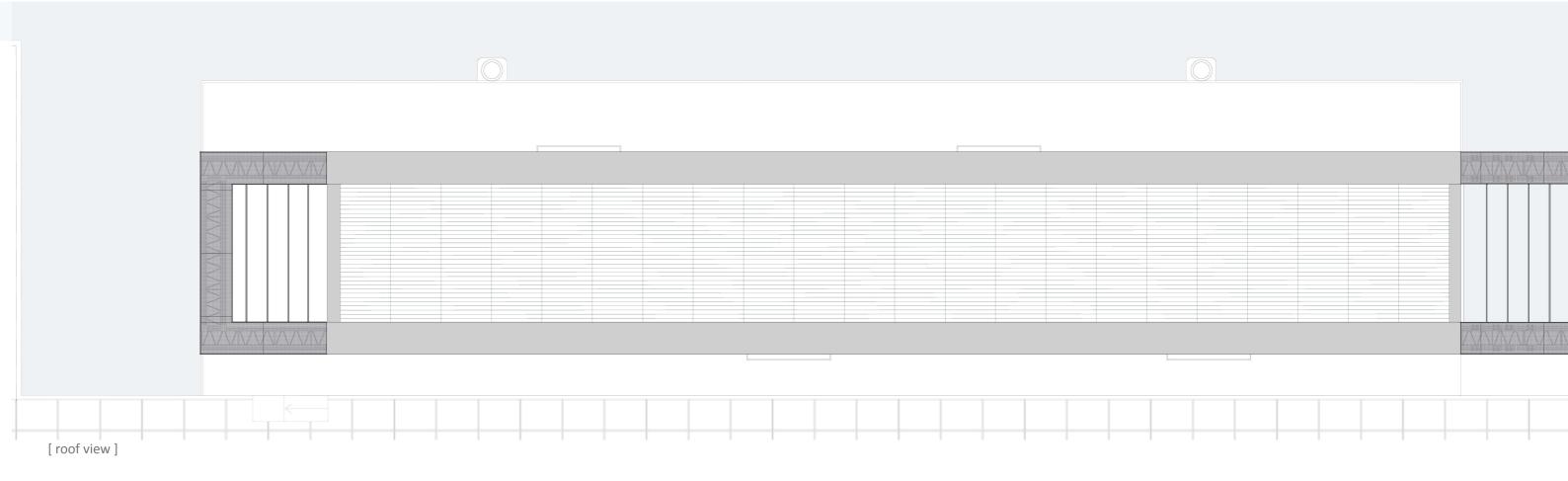
The project starts in 2016, after the first houses in the neighborhood are finished

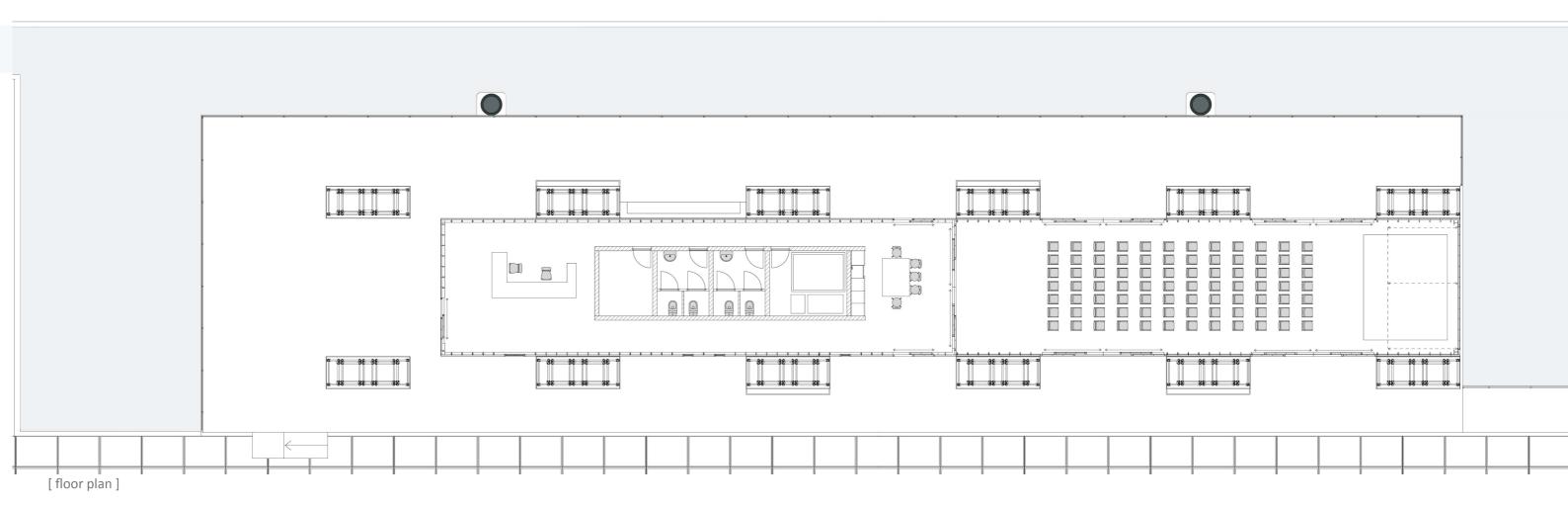
In the first phase an information center is built, with multi-use spaces that can be appropriated by the different stakeholders for a variety of uses. The spaces can also be rented to cover costs.

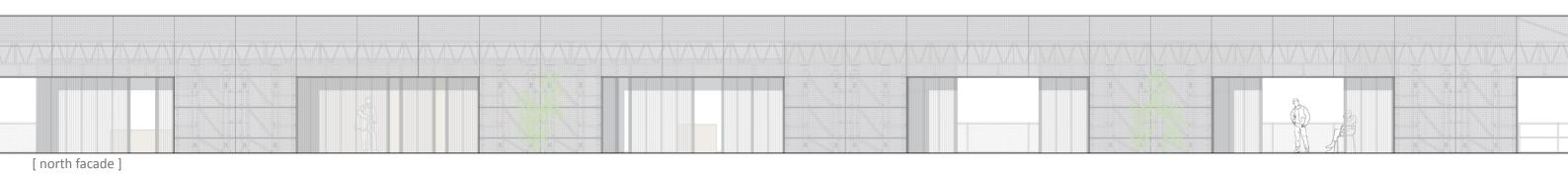


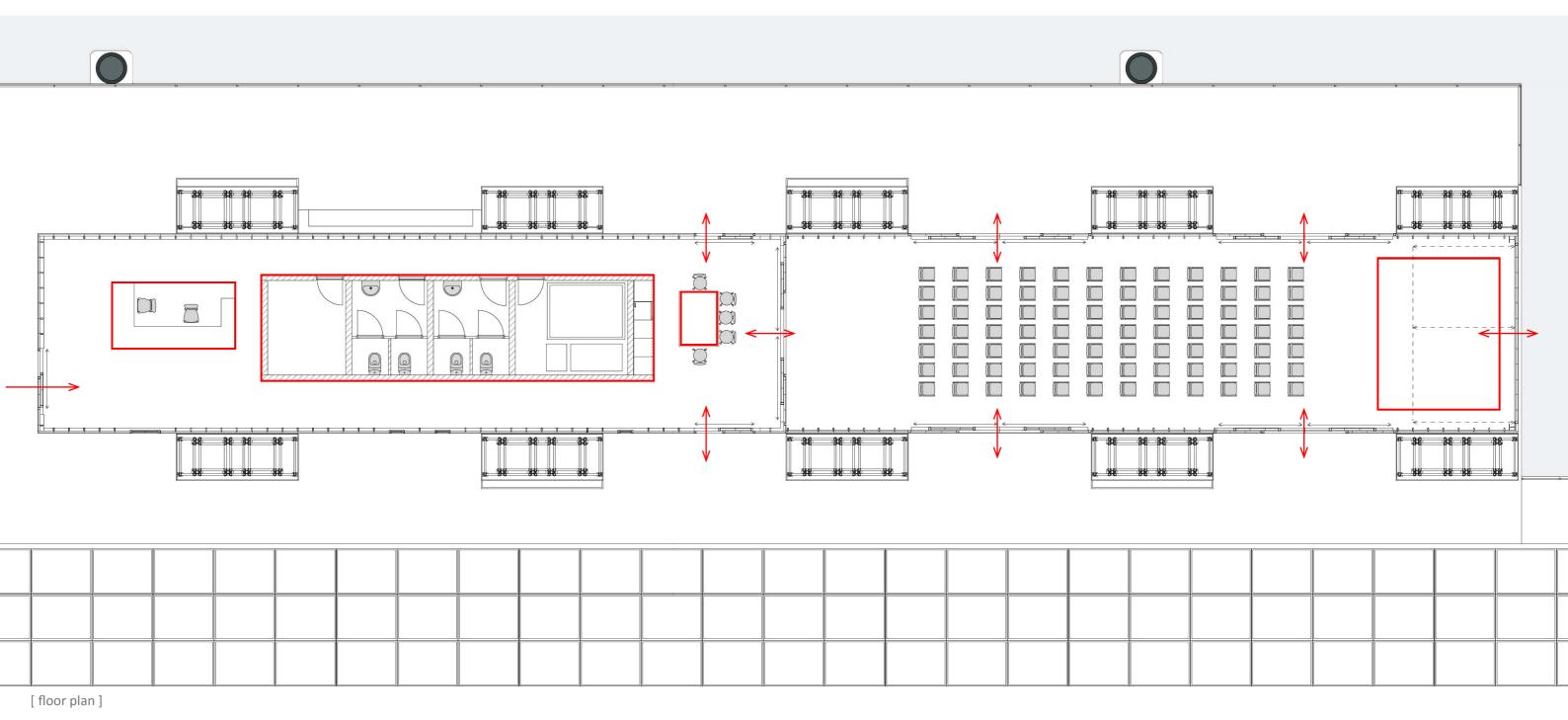


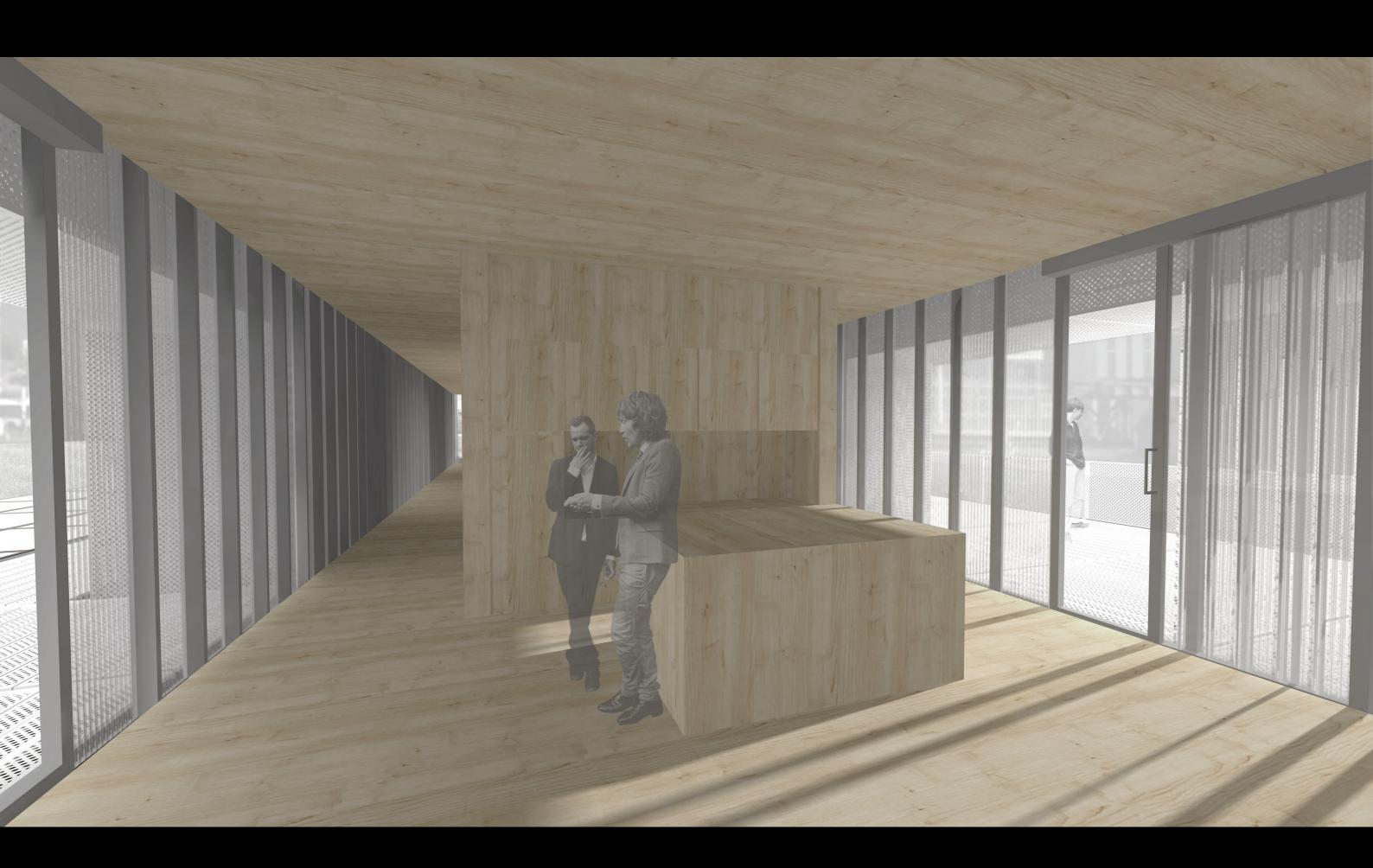




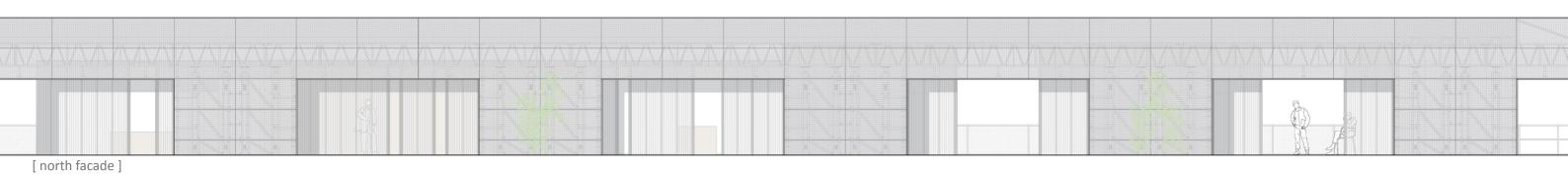


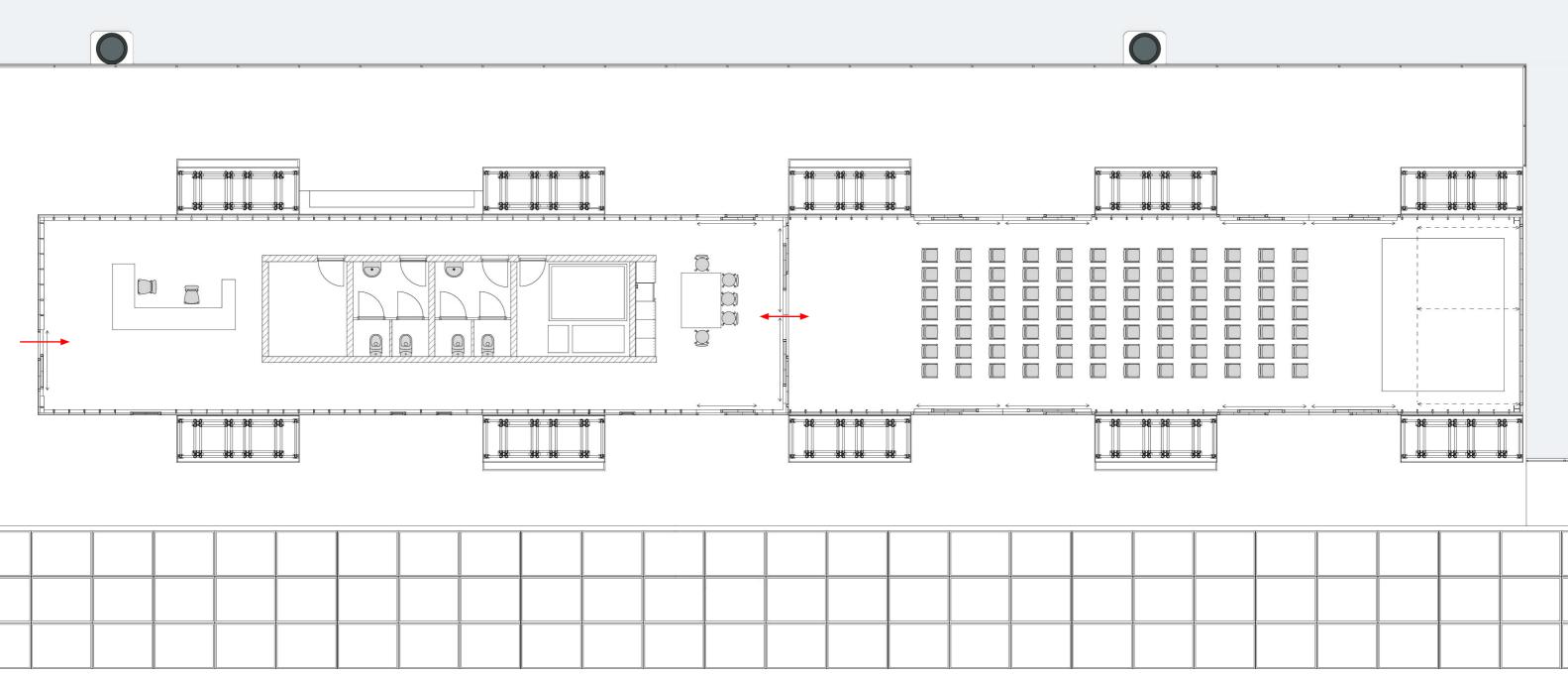


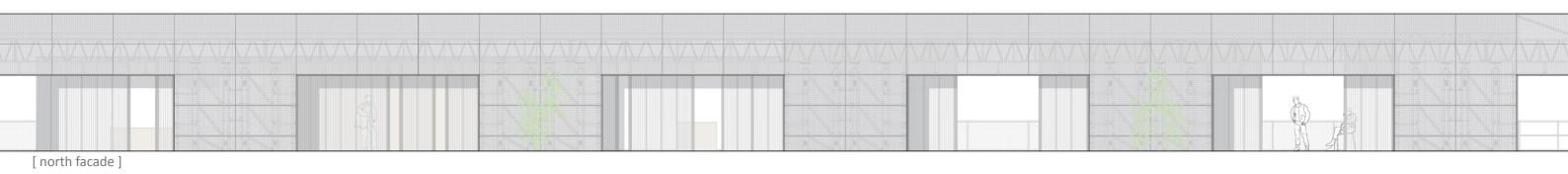


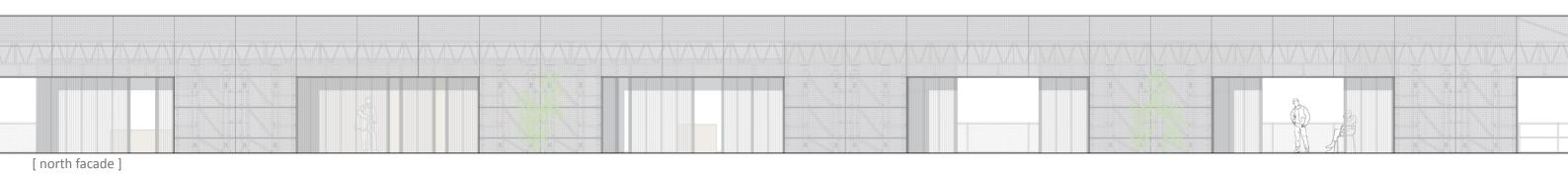


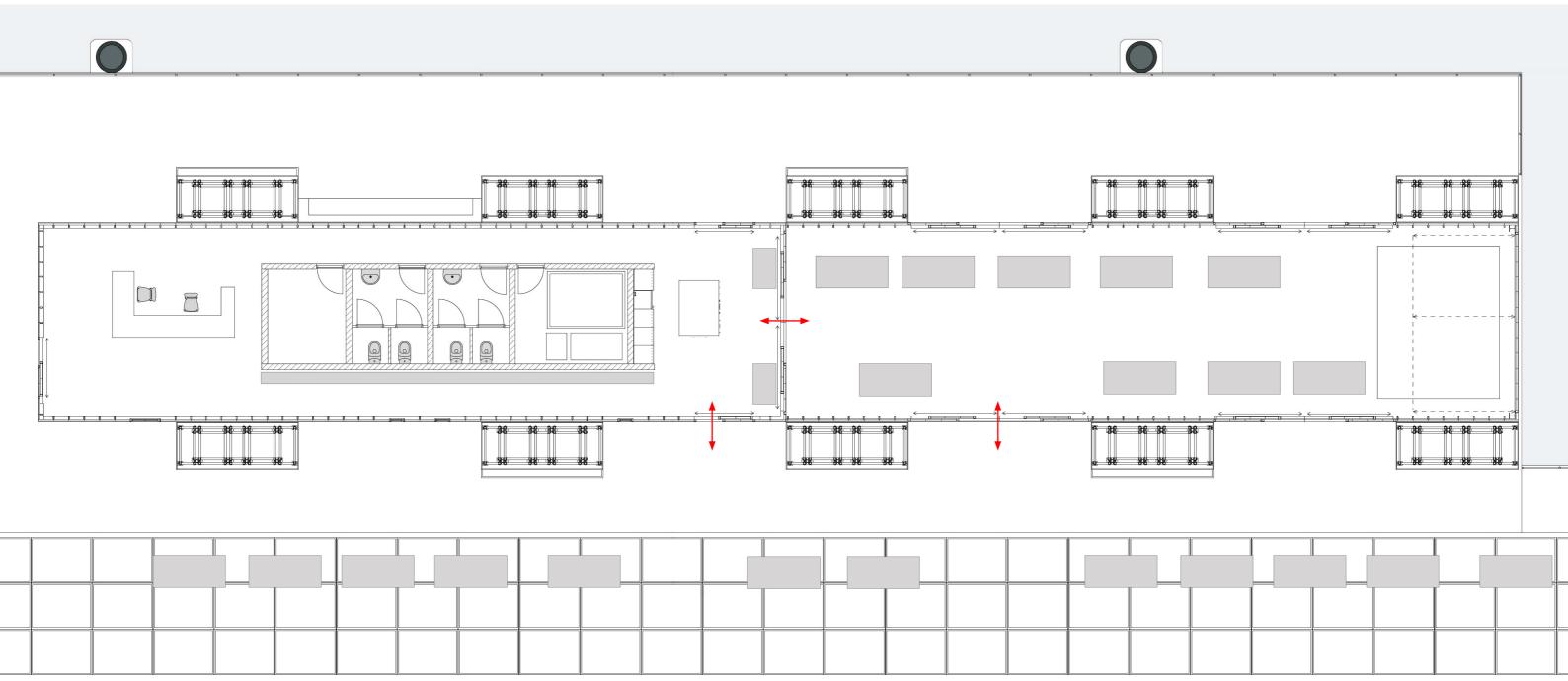




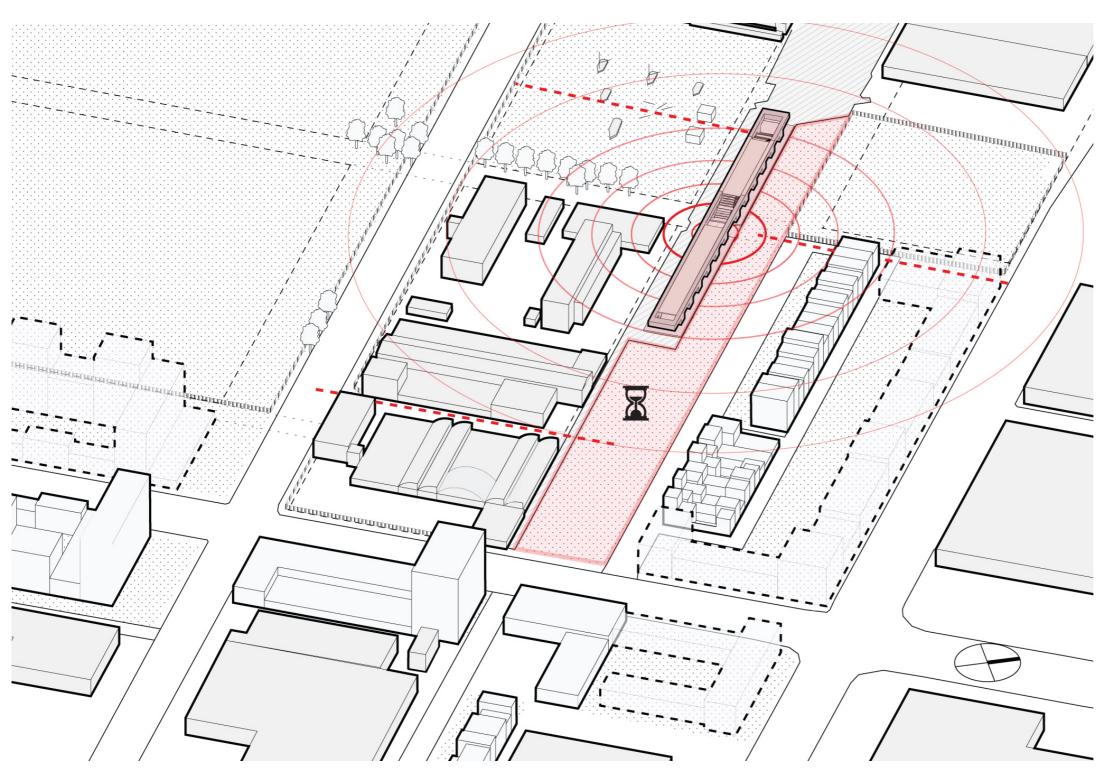








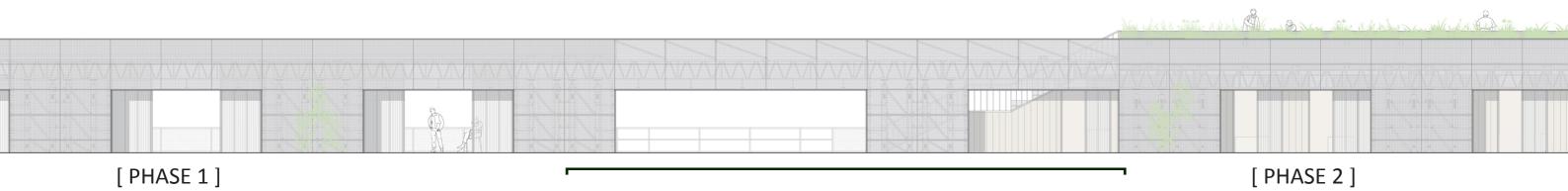




Dependent on the local needs and available budgets, the building is expanded to include a platform that functions as incubator for local start-ups

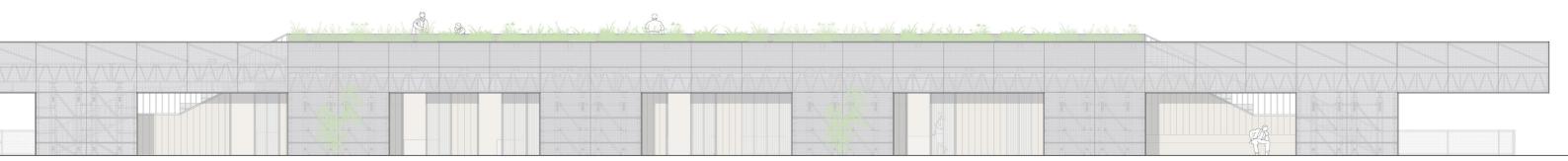
The presented design is a possible scenario for an expansion with;

- pop-up stores
- flexible work spots
- a roof garden for the neighborhood
- an open air theater

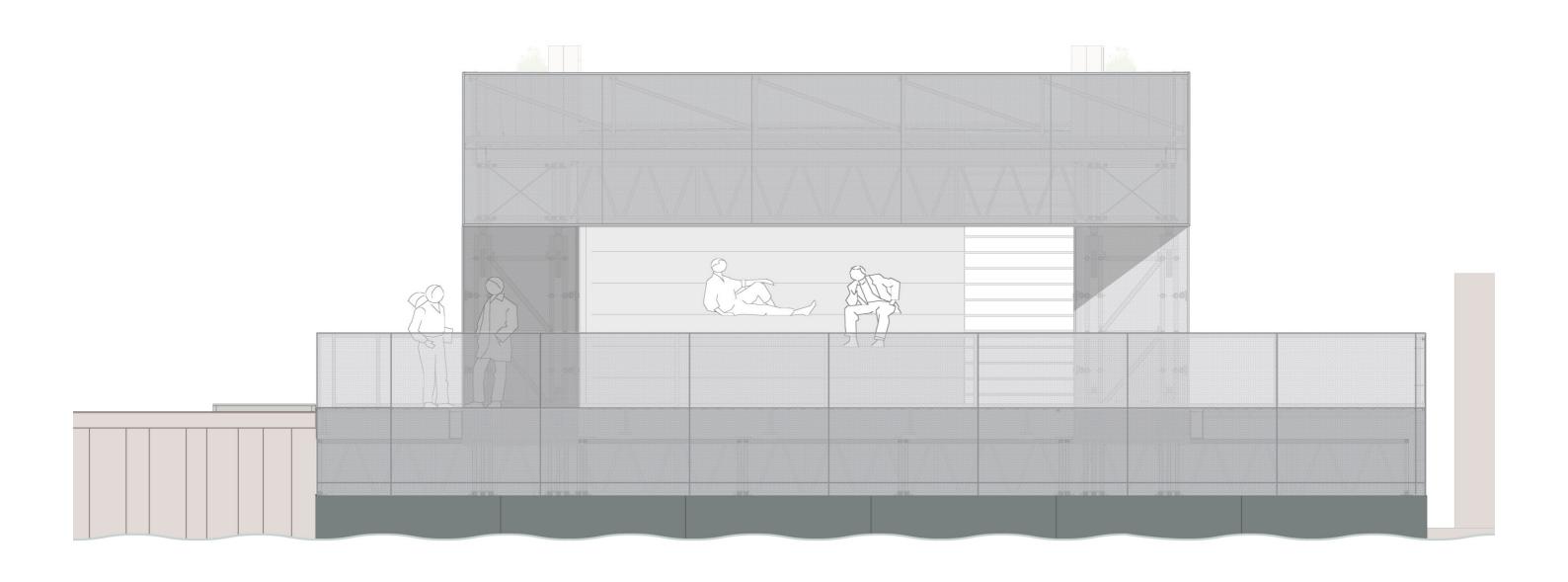


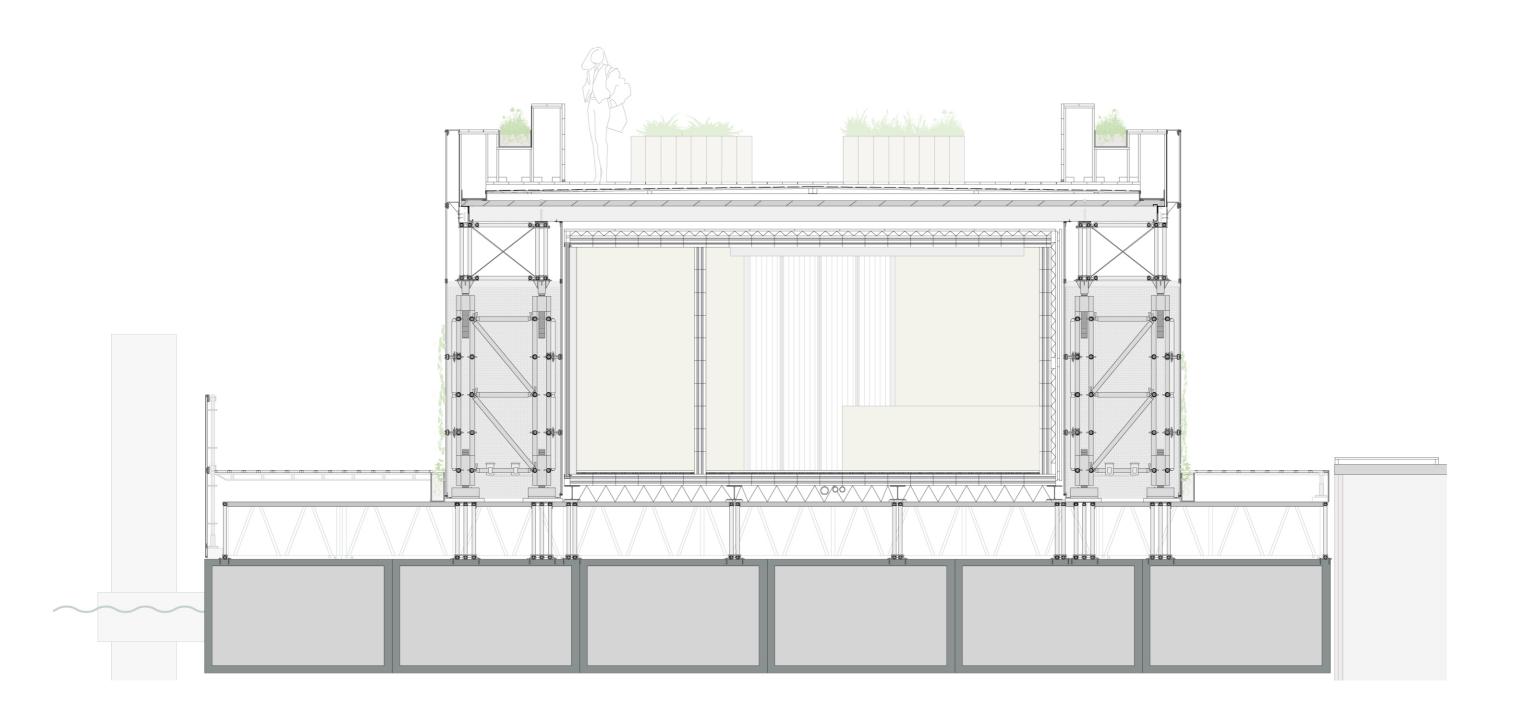
- Open air theater & stairs to roofgarden

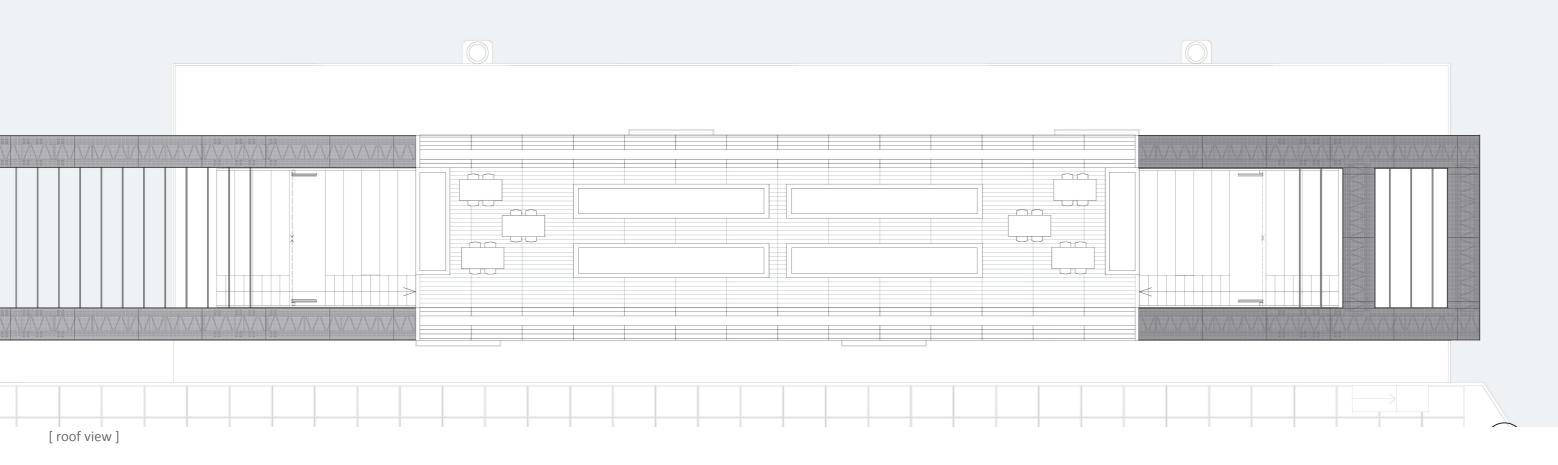
- Line of sight to neighbouring plot

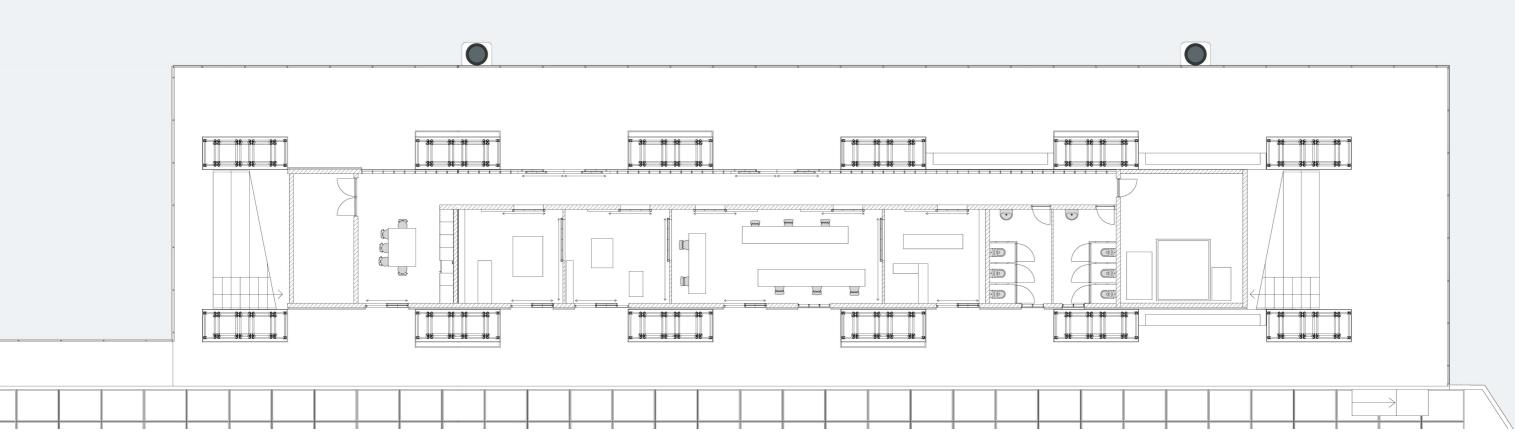


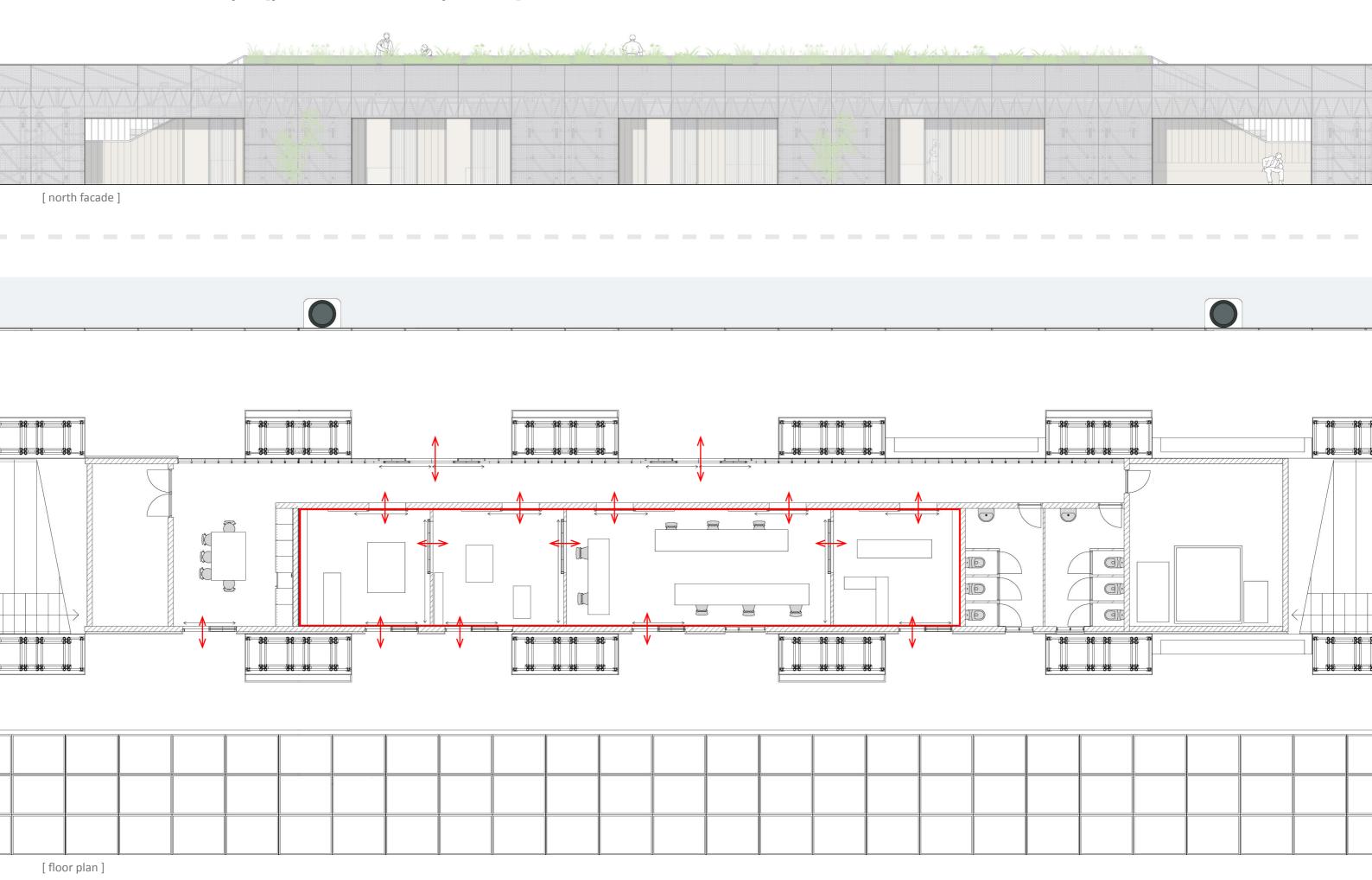


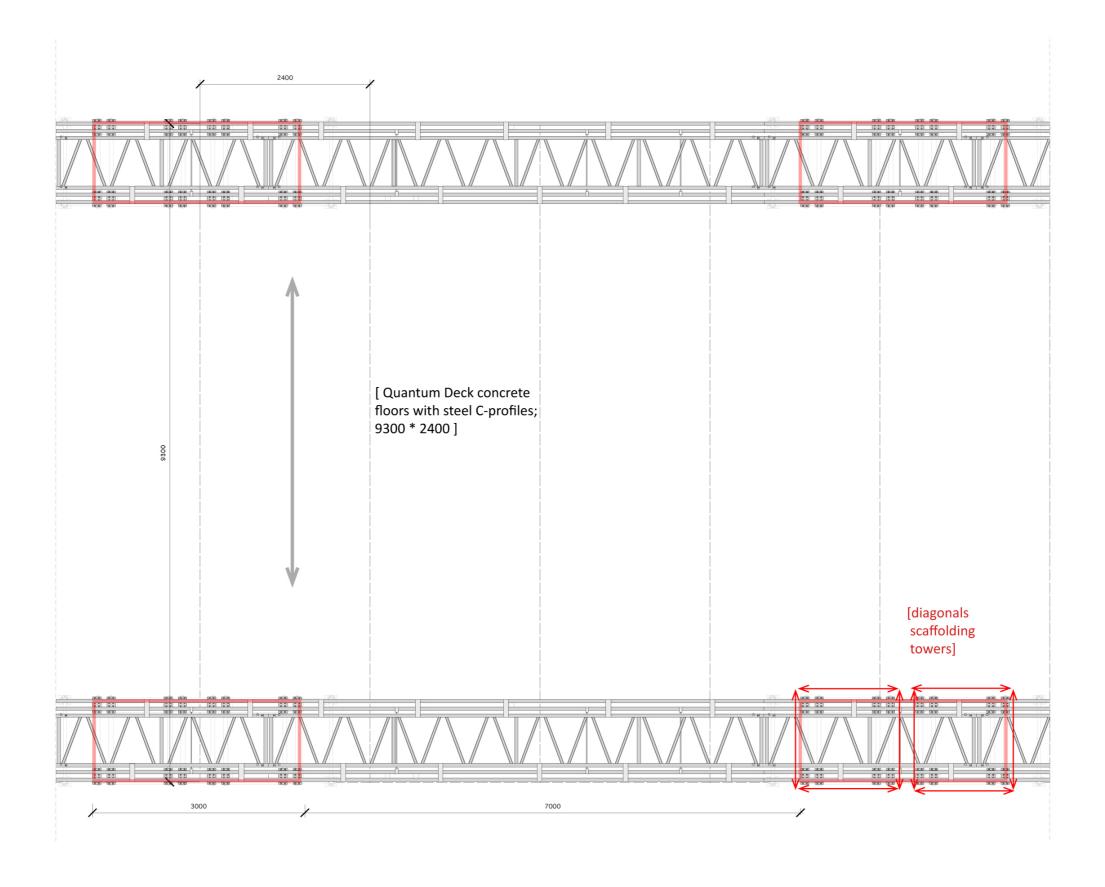




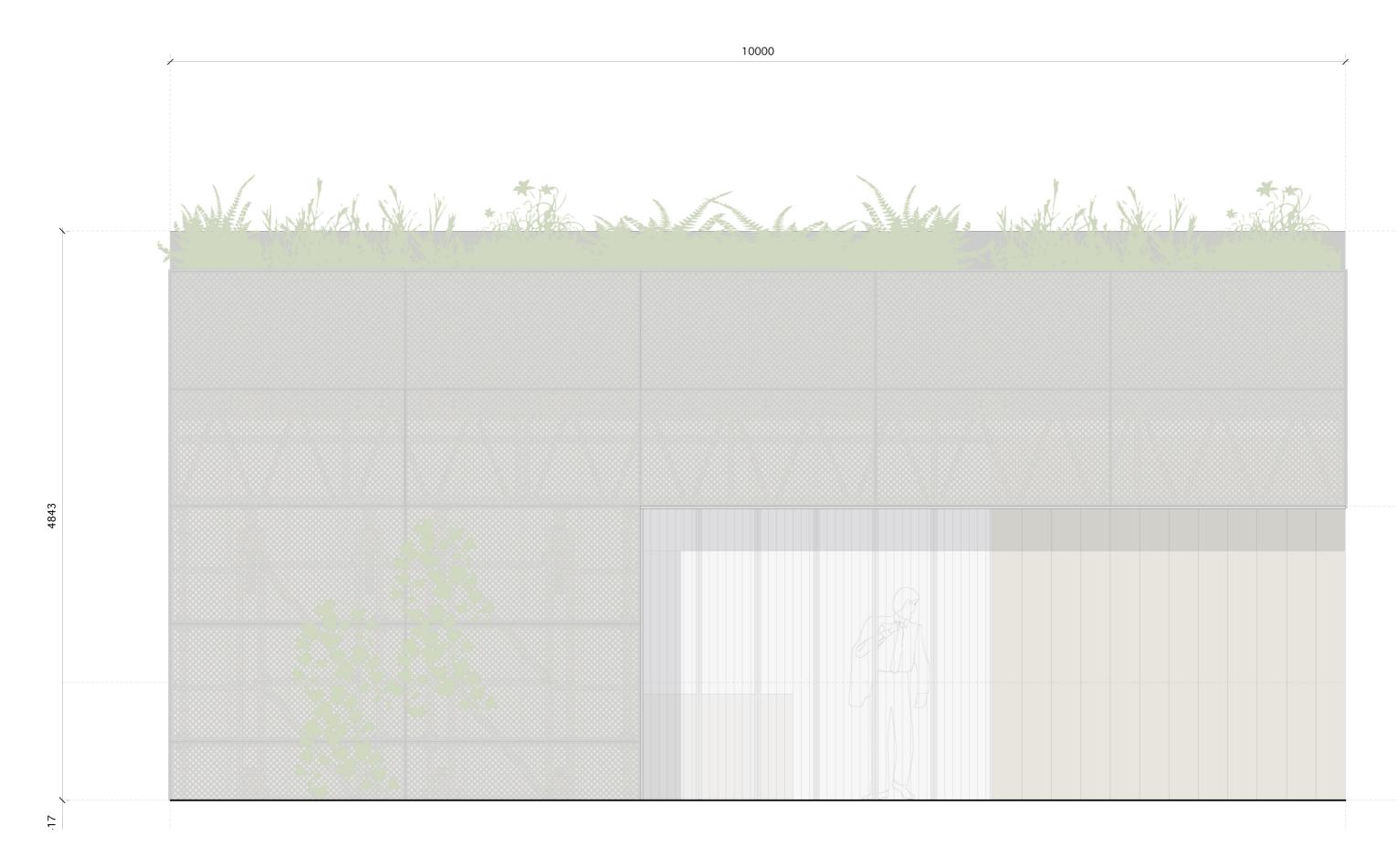


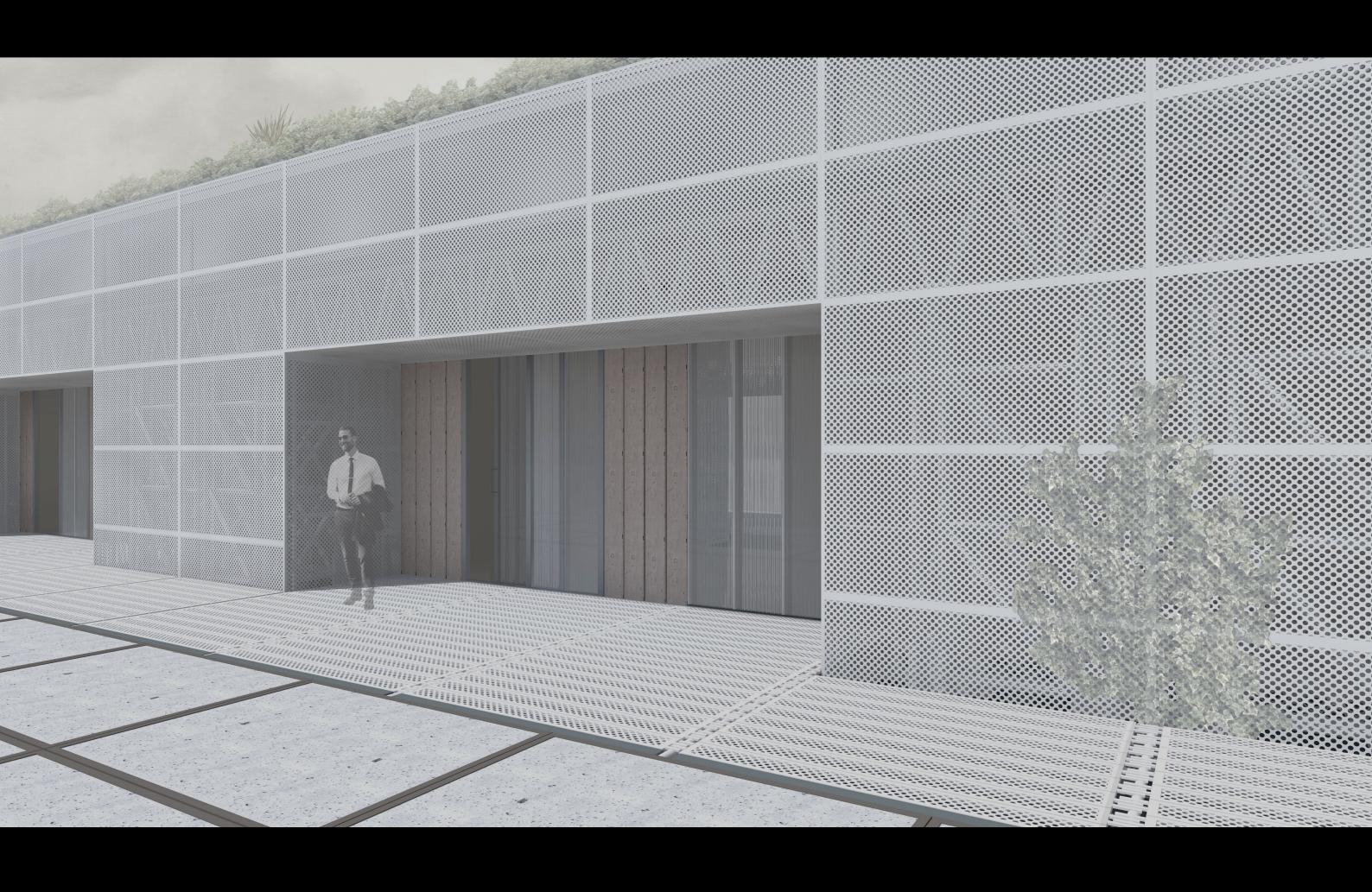


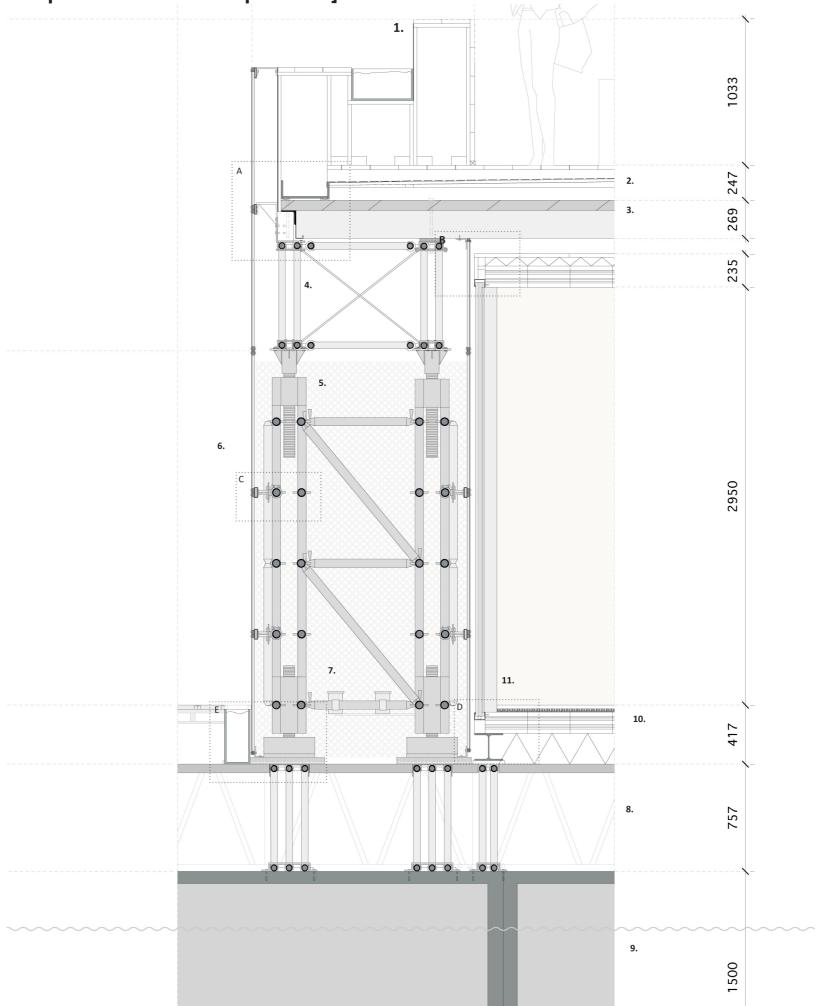




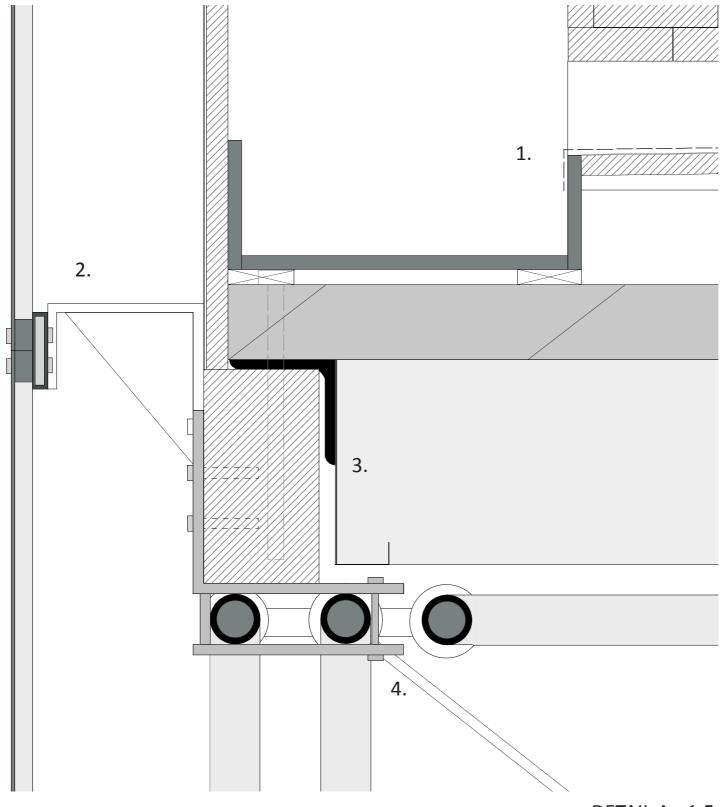




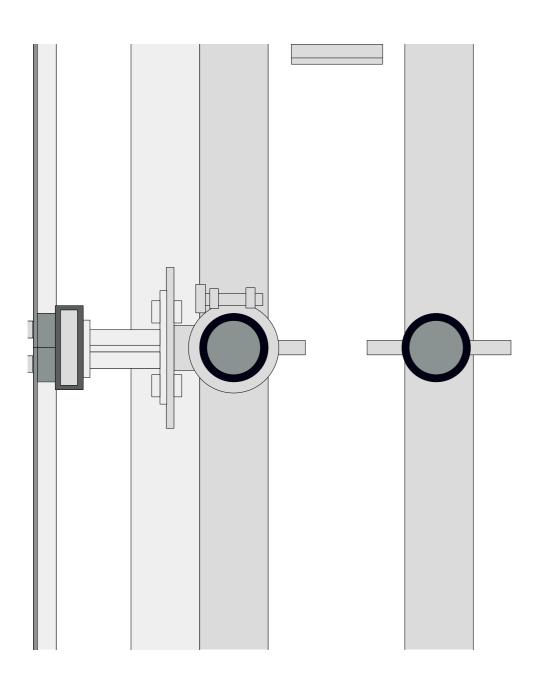




Buiksloterham in Transition - Eric de Ridder - Explore Lab 16 - Architecture - P5 Presentation

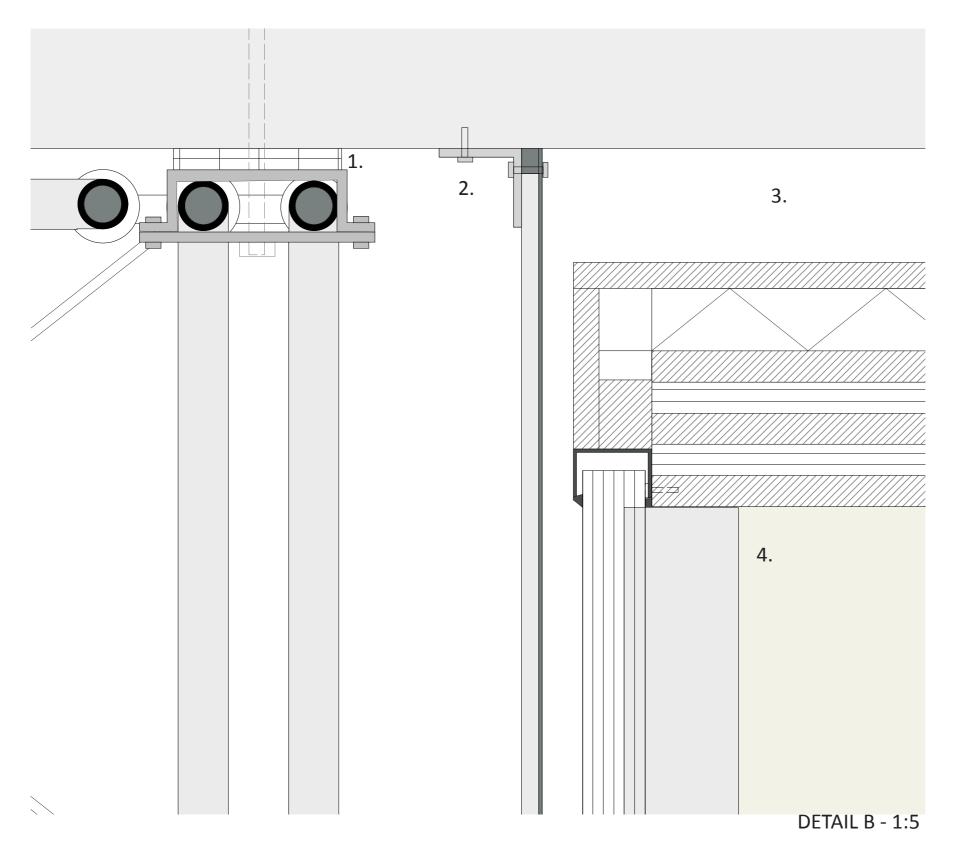


- 1. Drainage; EPDM foil on OSB boards and wooden beams, plastic rain gutter (120 x 340)
- 2. Steel corner profile bolted to wooden beam; horizontal steel fixation tube welded to corner profile; bolted RMIG perforated steel sheet covering ( R6T9)
- 3. Quantum deck floor (TATA steel) (2400 x 9300) lightweight, prefab concrete floor with steel C220-profiles bolted on wooden beam, bolted to steel corner profile, welded to demountable custom designed steel connection profile for combined trusses
- 4. Combined vertical and horizontal steel scaffolding trusses with distancers (750 x 7000 & 750 x 3000) (Layher); with steel diagonal cables in center

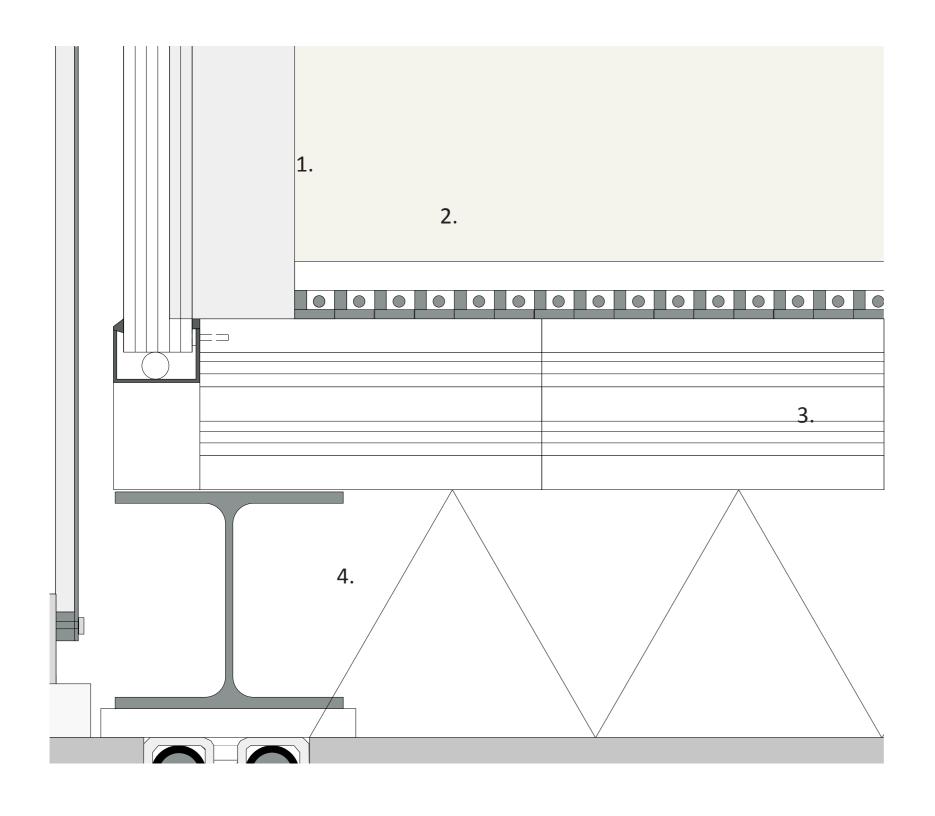


Perforated steel sheet covering (1000\*2000)(RMIG R6T9) bolted to horizontal steel fixation tube, welded to half coupler on plate, connected to scaffolding tube (60mm) connected to scaffolding tower using cross coupler (Layher)

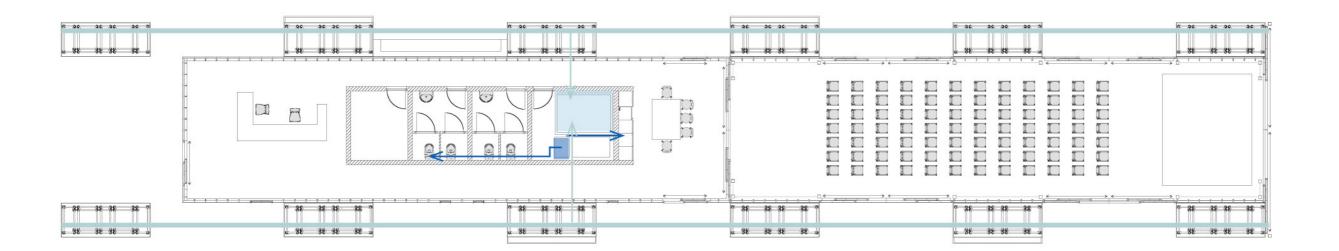
**DETAIL C - 1:5** 

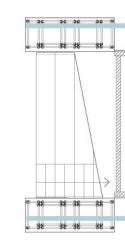


- 1. Combined vertical and horizontal steel scaffolding trusses with distancers (750 x 7000 & 750 x 3000) (Layher); with steel diagonal cables in center custom designed steel profile for fixation Quantum deck floor with rubber footplate
- 2. Steel corner profile bolted to QD floor; to fixate RMIG perforated steel sheet covering (R6T9)
- 3. Prefab cross-laminated wooden roof panel (Lenotec 170 mm) with 80 mm insulation panels covered with OSB boards
- 4. Polycarbonate facade elements (500 x 3000\*60) with aluminum anchor profile (89 x 45) (Rodeca)

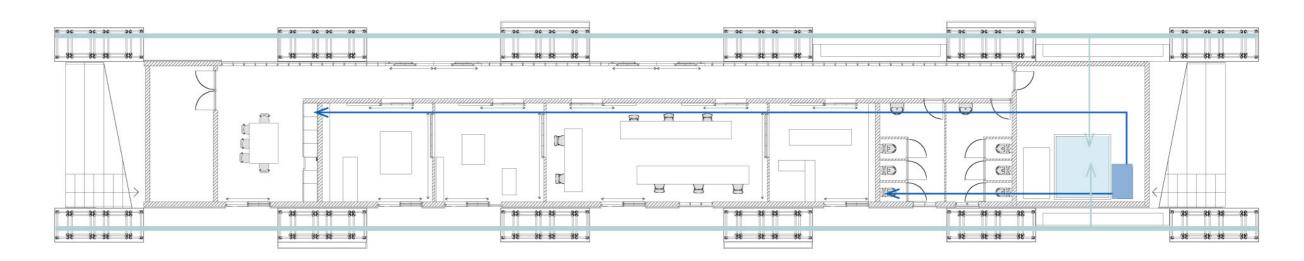


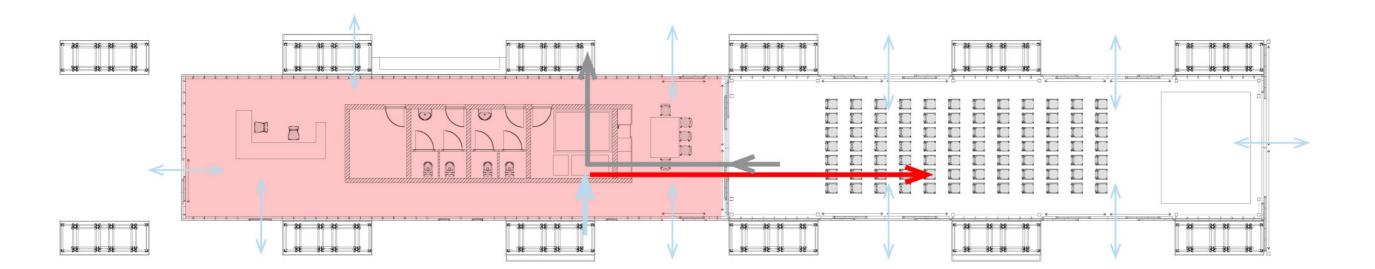
- 1. Polycarbonate facade elements (500 x 3000\*60) with aluminum anchor profile (89 x 45) (Rodeca)
- 2. Dry floor heating system with rubber naps and OSB board finishing
- 3. Prefab cross-laminated wooden floor panel (Lenotec 170 mm)
- 4. Steel HEA 200 profile on rubber footing
- 5. Supportive spatial truss frame combined steel scaffolding trusses (750 x7000) with steel scaffolding platforms

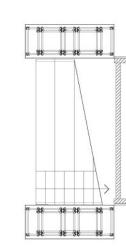


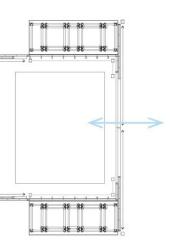


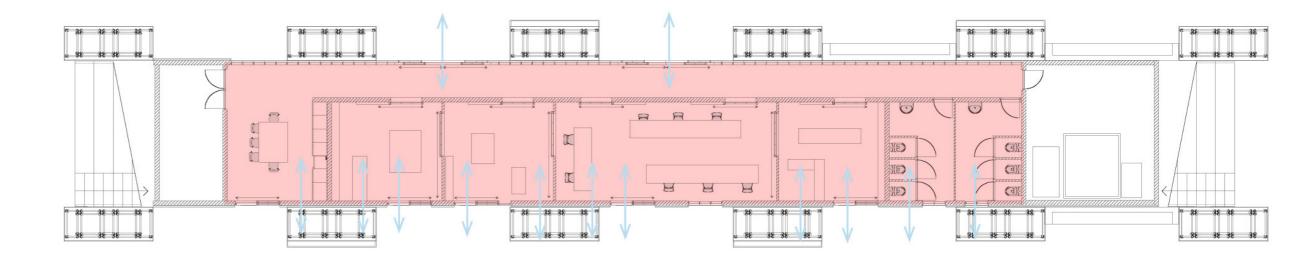






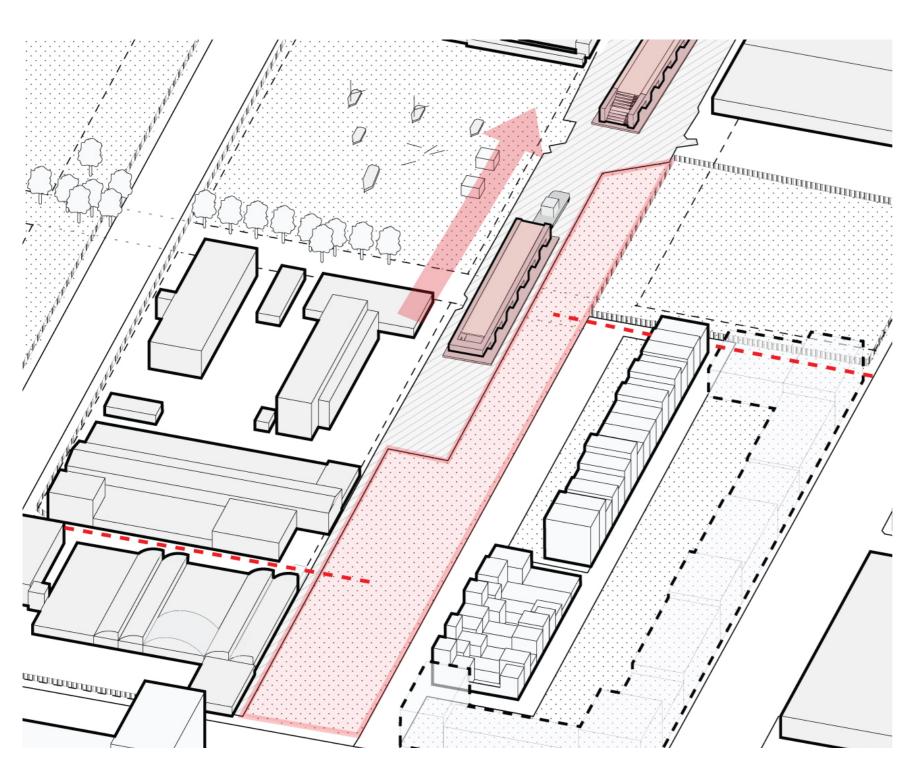






**2026** 

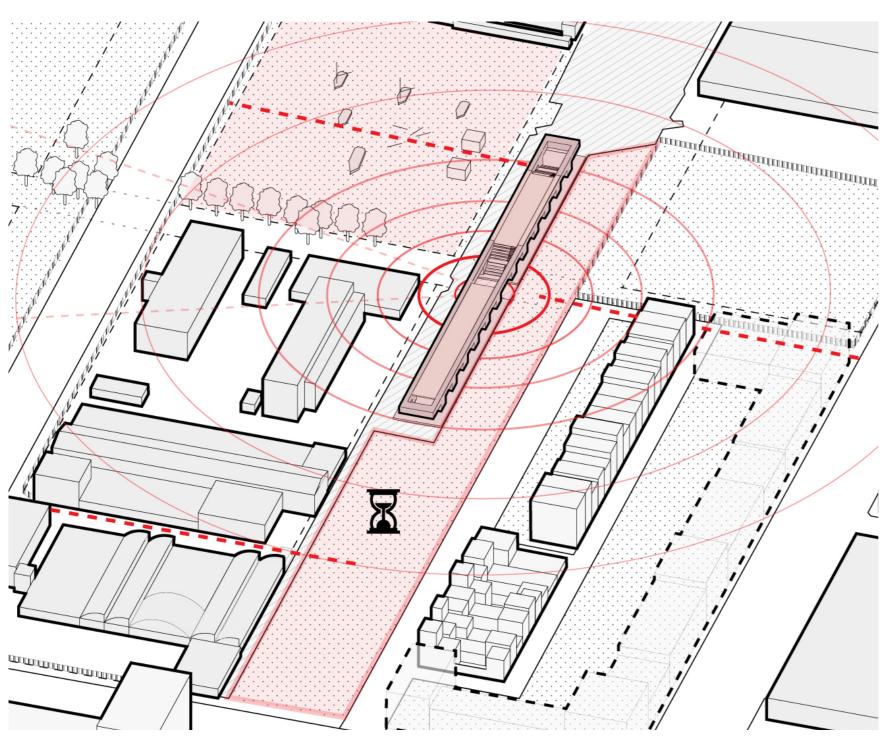
PHASE 3
LIFE CYCLE
ASSESSMENT



After the 10 year period, the building is transported over the water to a new location, in Buiksloterham, or elsewhere in the city

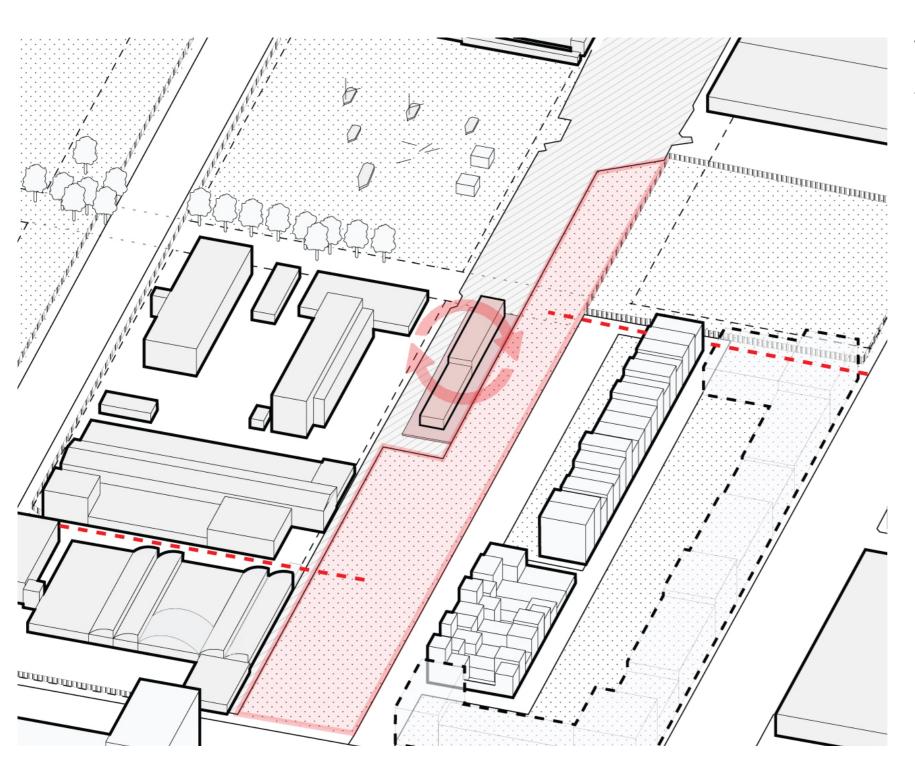
2026

PHASE 3
LIFE CYCLE
ASSESSMENT



The building continues to play a role as urban catalyst, for as long as it is necessary for the urban transition of the area.

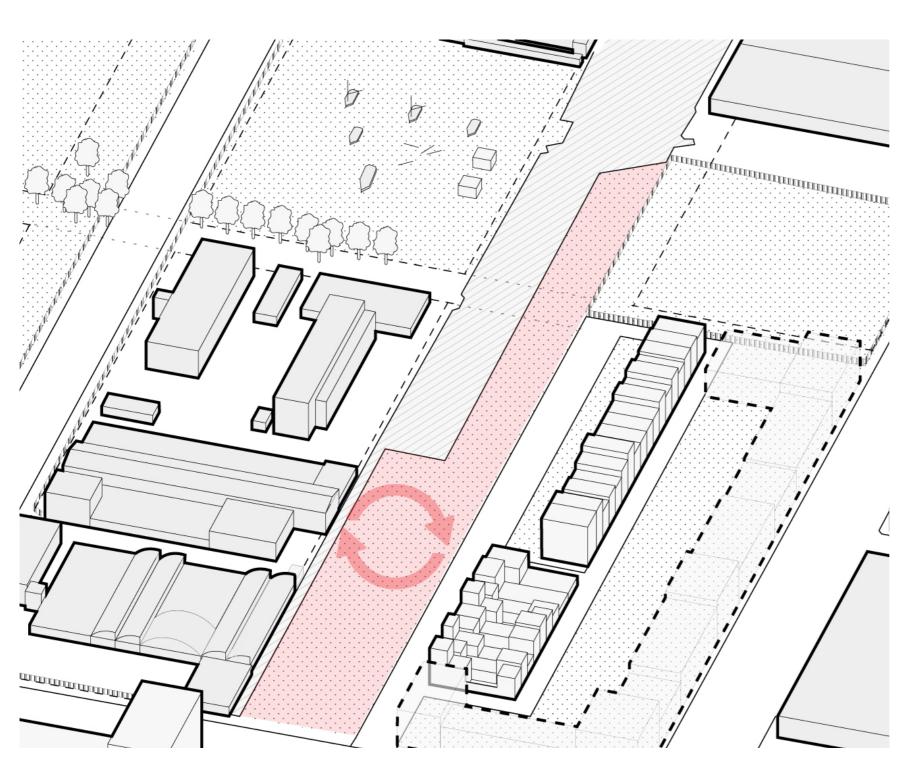
2026
PHASE 3
LIFE CYCLE
ASSESSMENT



The scaffolding construction is removed and re-used elsewhere, the infill is transformed into a permanent building

2026

PHASE 3
LIFE CYCLE
ASSESSMENT



The building is dismounted and the materials are sold and re-used elsewhere.

This also applies to all the previously discussed options, as the end of the building life cycle.