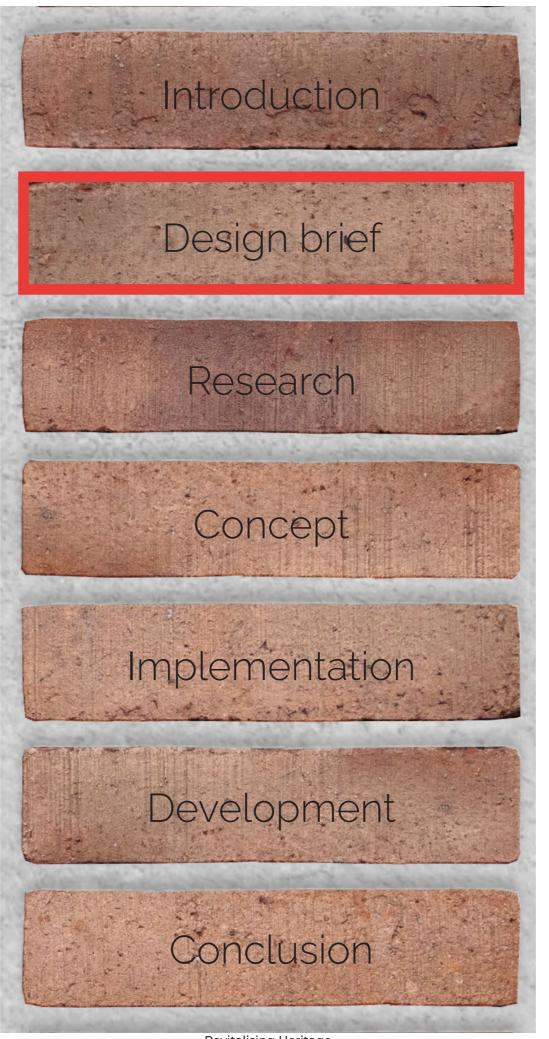
# Anew centrality

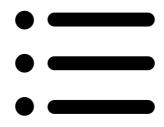
A new design for the Baggermuseum in Sliedrecht



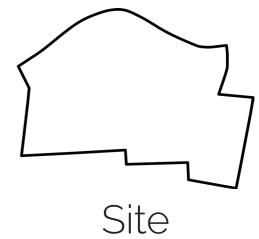
#### Who? What? Where?

Nationaal Bagger museum

Client



Programme



#### Who? What? Where?



#### **Partners**









IHC

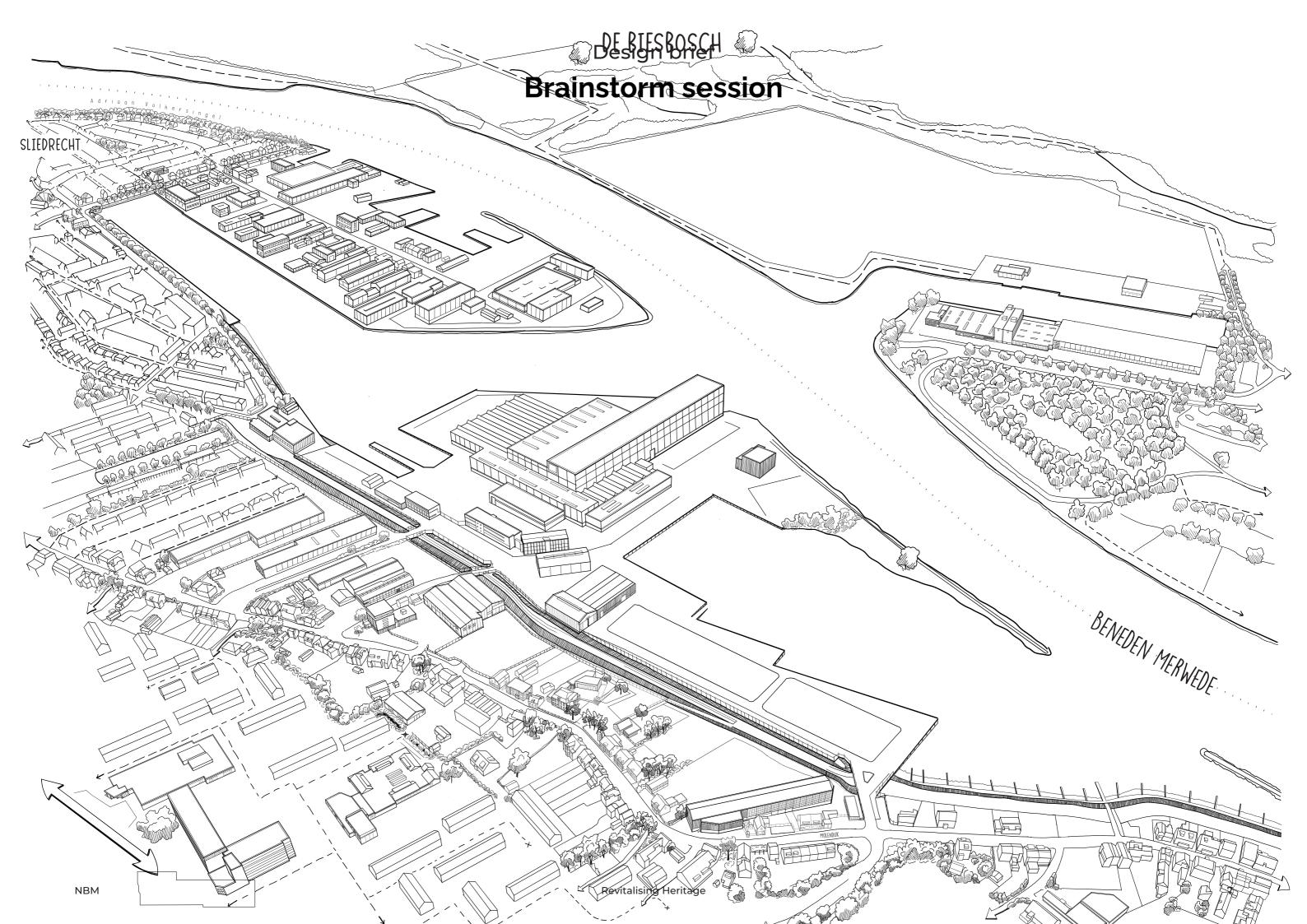
Van Oord

Boskalis

Rijkswaterstaat

#### **Brainstorm session**





#### **Target groups**

High school students/ MBO'ers (13-22 age)



Families with small children (3-11 age)



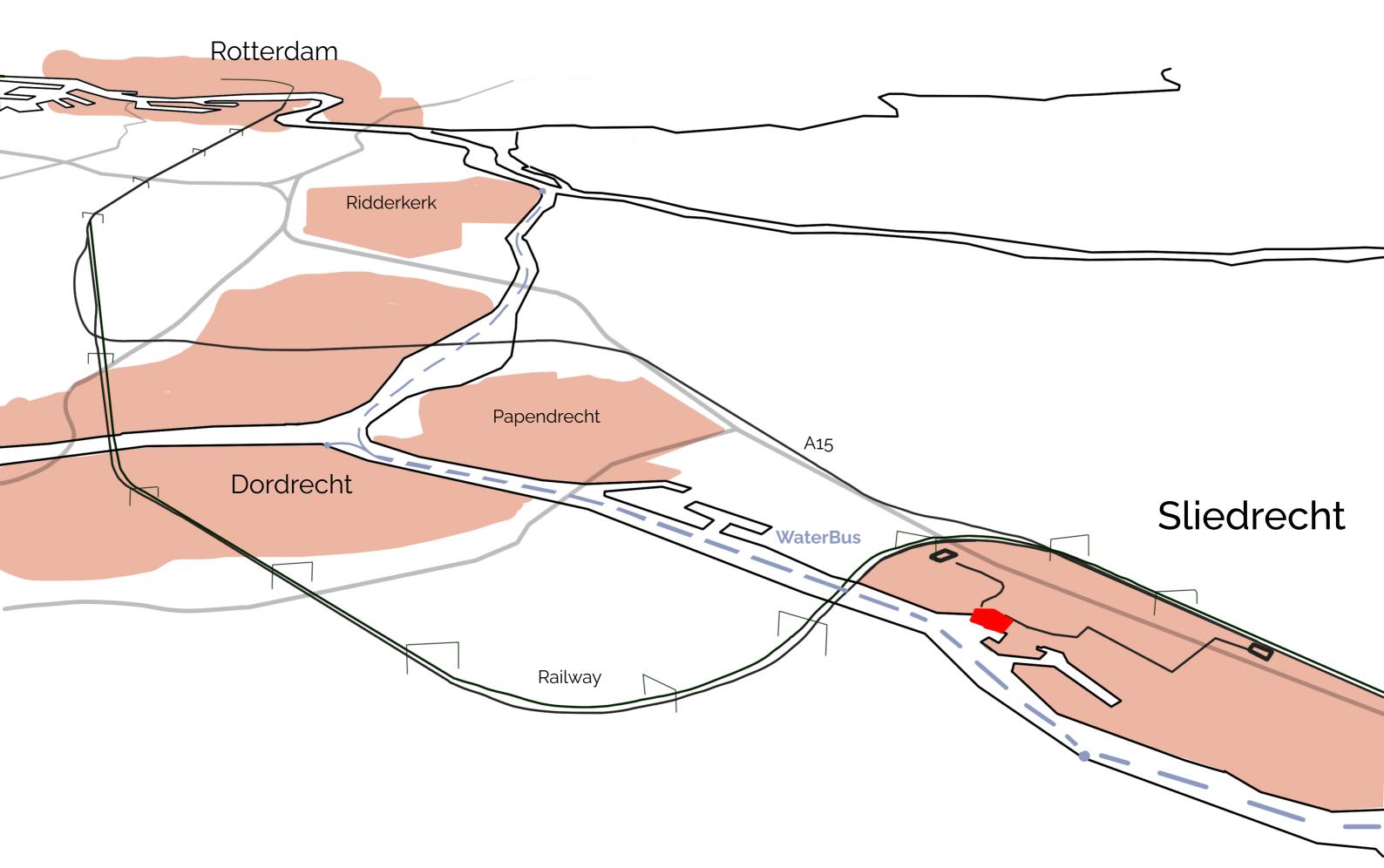
Volunteers (40-90 age)



#### **Location** area



Design brief





#### Site

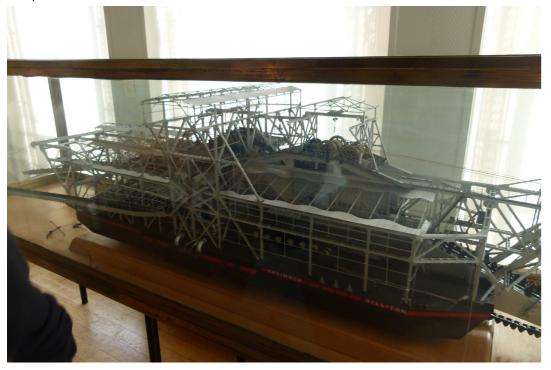




#### Program

#### **BAGGERMUSEUM COLLECTION**

Shipmodels





Dredging Heritage



Dredging simulators)



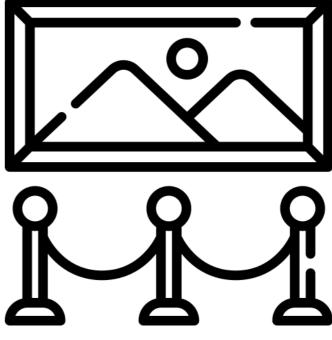




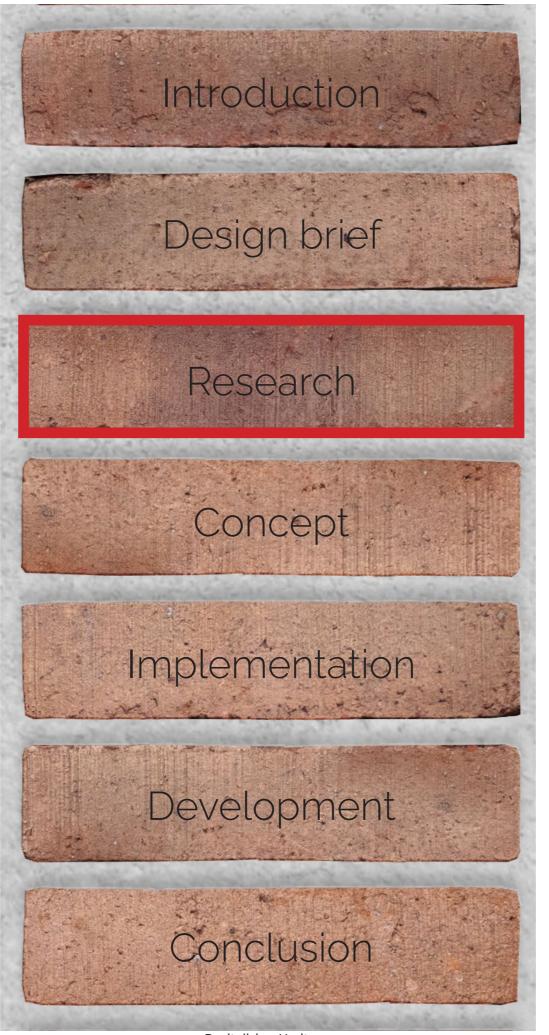
Pracitical garden equipment

#### **Functions**

- + Cafe / hangout space
- + Event space
- + Practical garden
- + Archive
- + Offices
- + Kitchen
- + Outside patio



Nationaal Bagger Museum



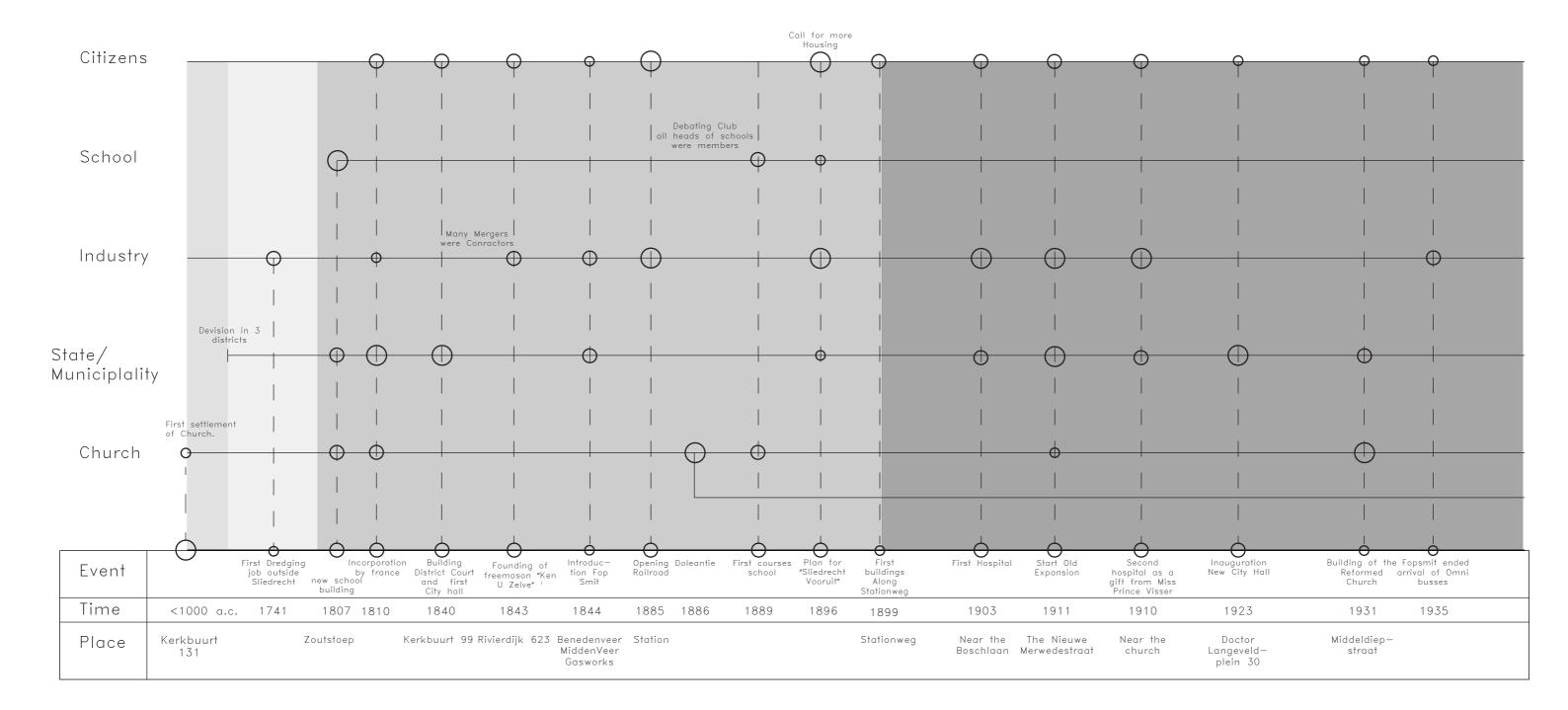
#### **Personal fascination**

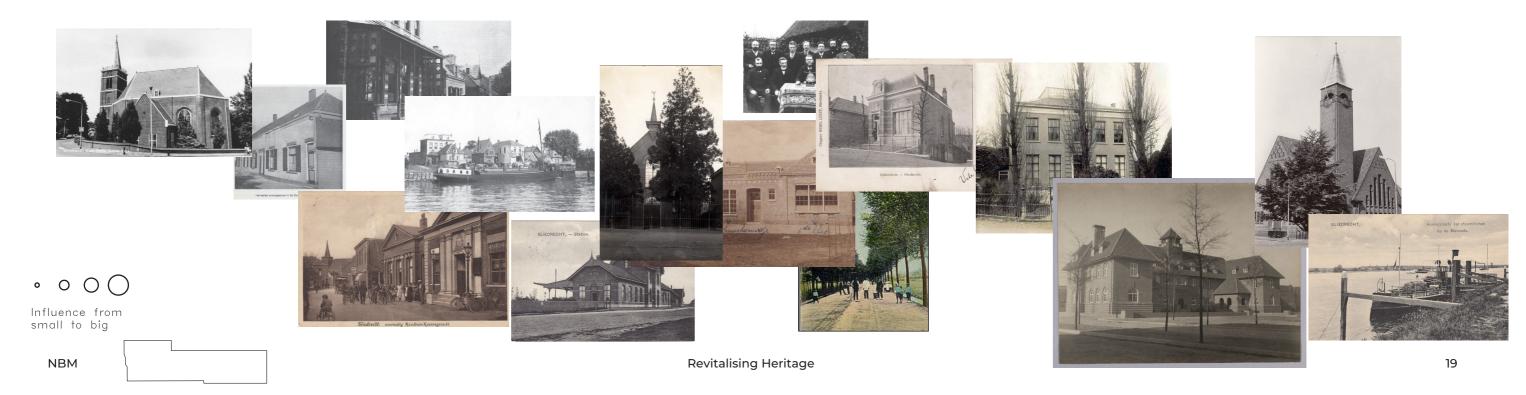
"Doe het zelf, doe het samen" "Geen zand, geen vreten"

## Research **Question**

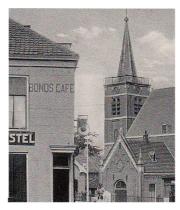
What are the characteristics of Sliedrecht that made it the

Dredging Capital of the World?





#### Research



The Rechthuis (koffyhuis v. d. vlies served as first place for the city council, Kerkbuurt 141



District court(Left) Old Town hall(Right), Kerkbuurt 99



Town hall, Doctor langeveldplein 30 (Part of the Expansion)



Dutch Reformed Great Church, Kerkbuurt 131



Christian Reformed Church Beth-El, Kerkbuurt 72



Reformed church, Middeldiepstraat 6



House familiy Prins, Rivierdijk 456 (One of the first dredging families)



Residence of mayor of Sliedrecht (1884-1895) and known dredging families.

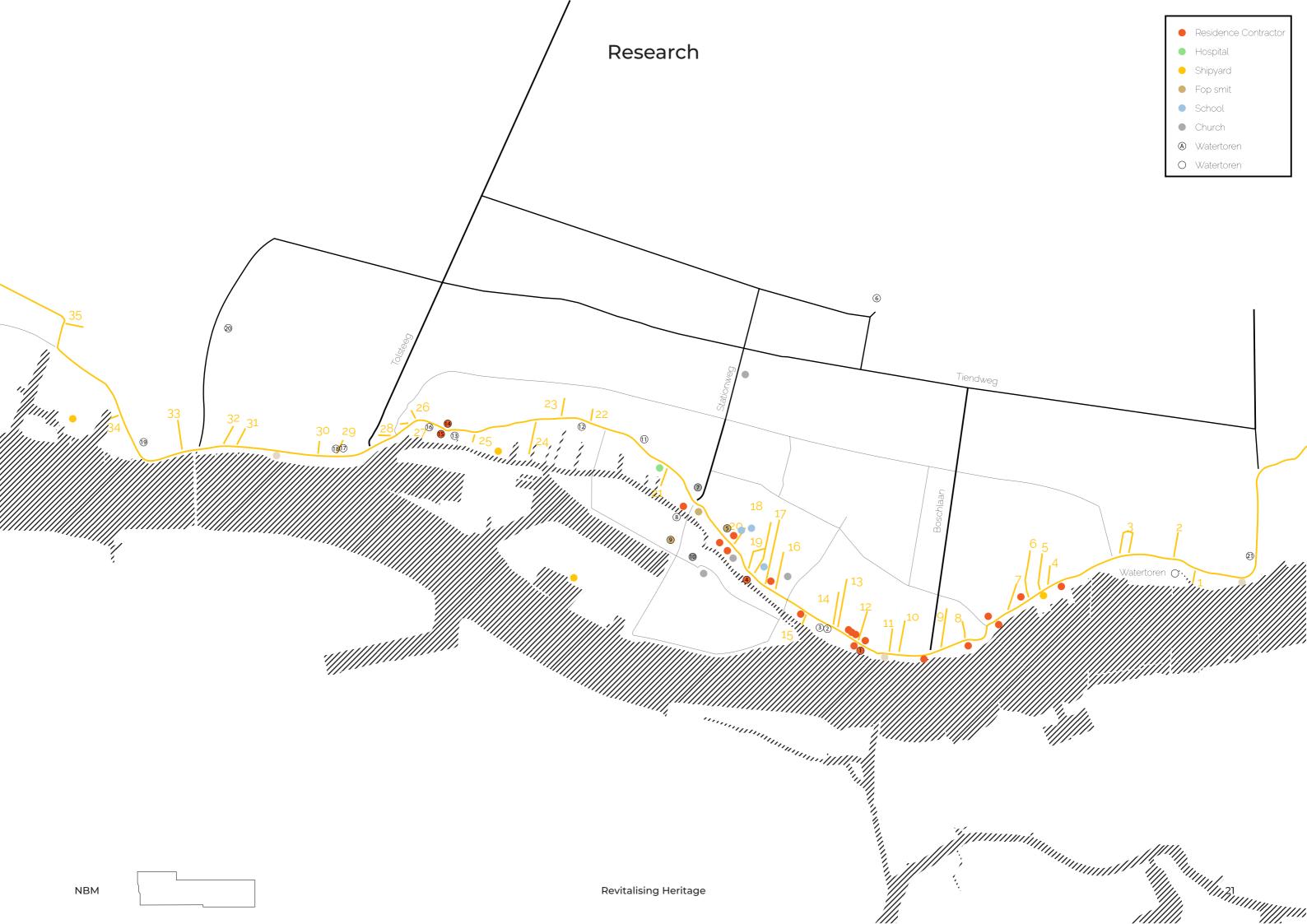


House of the familily bos

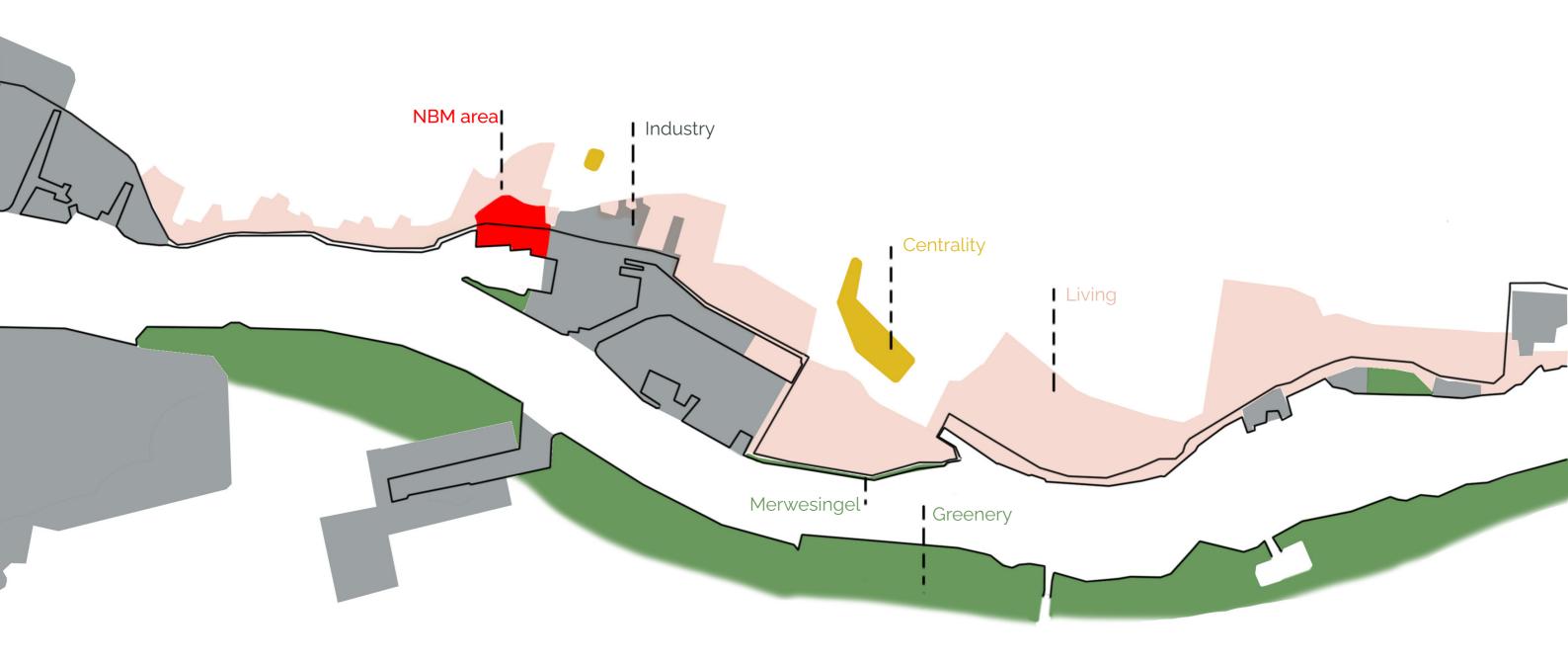
#### Municipal buildings

**Church Buildings** 

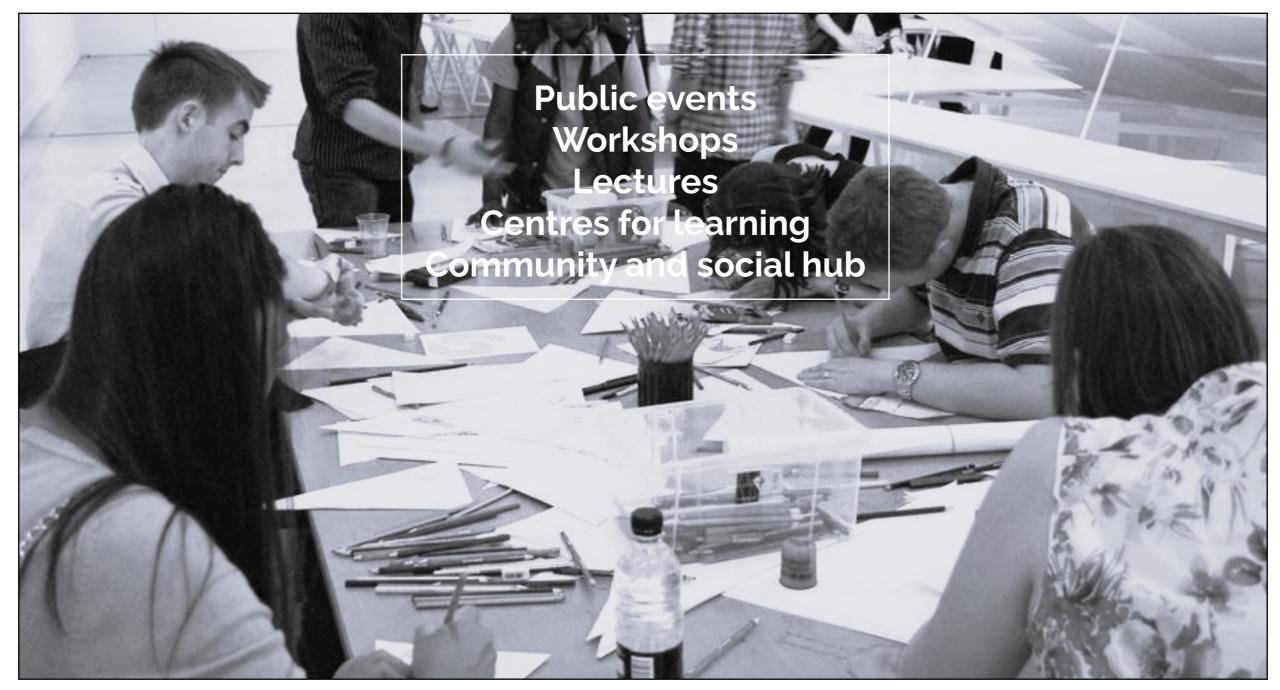
#### Contractor buildings



#### Location



#### Musea



Museums connect the present with the past and work toward a shared future.

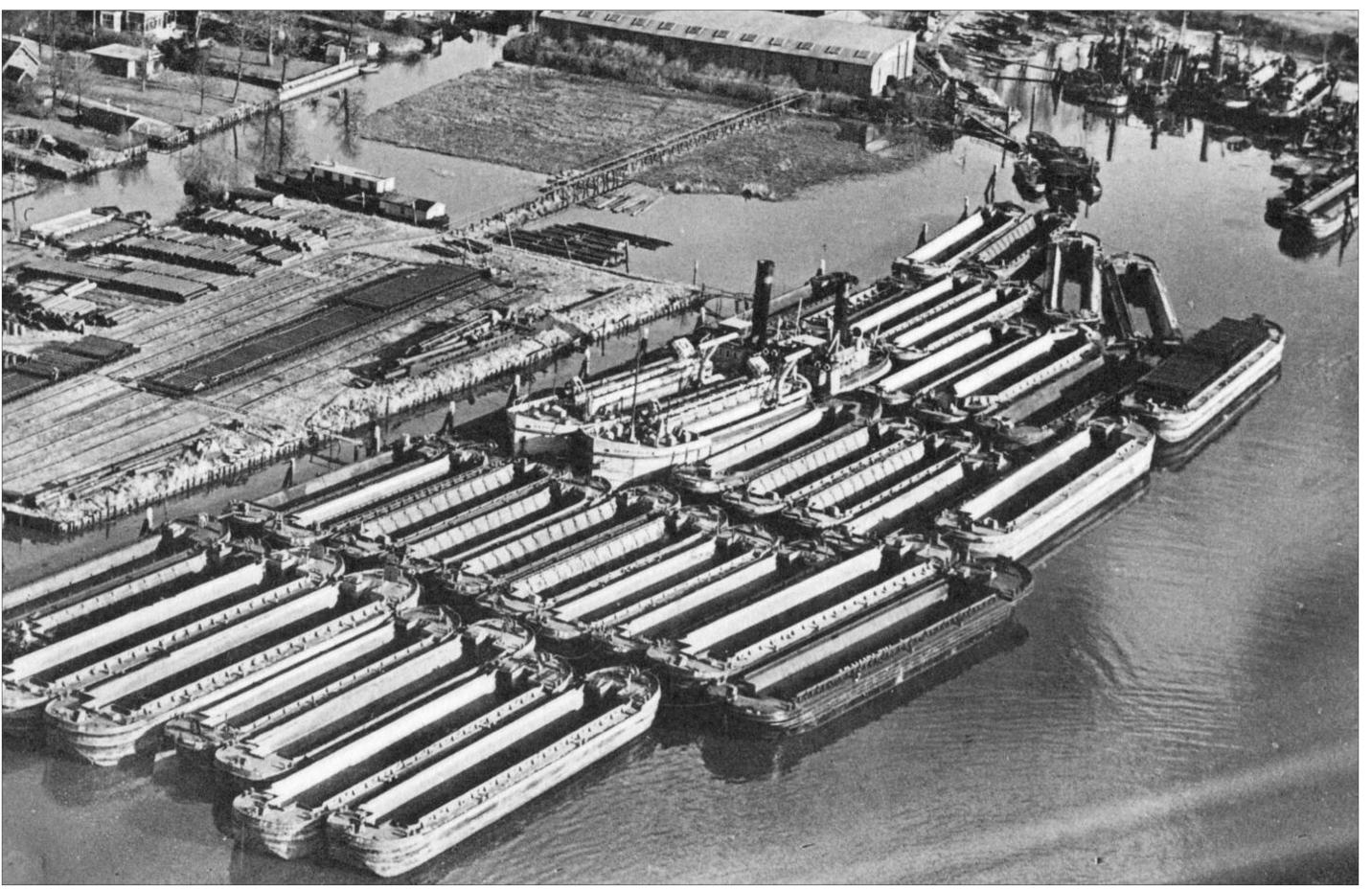
#### Musea experience

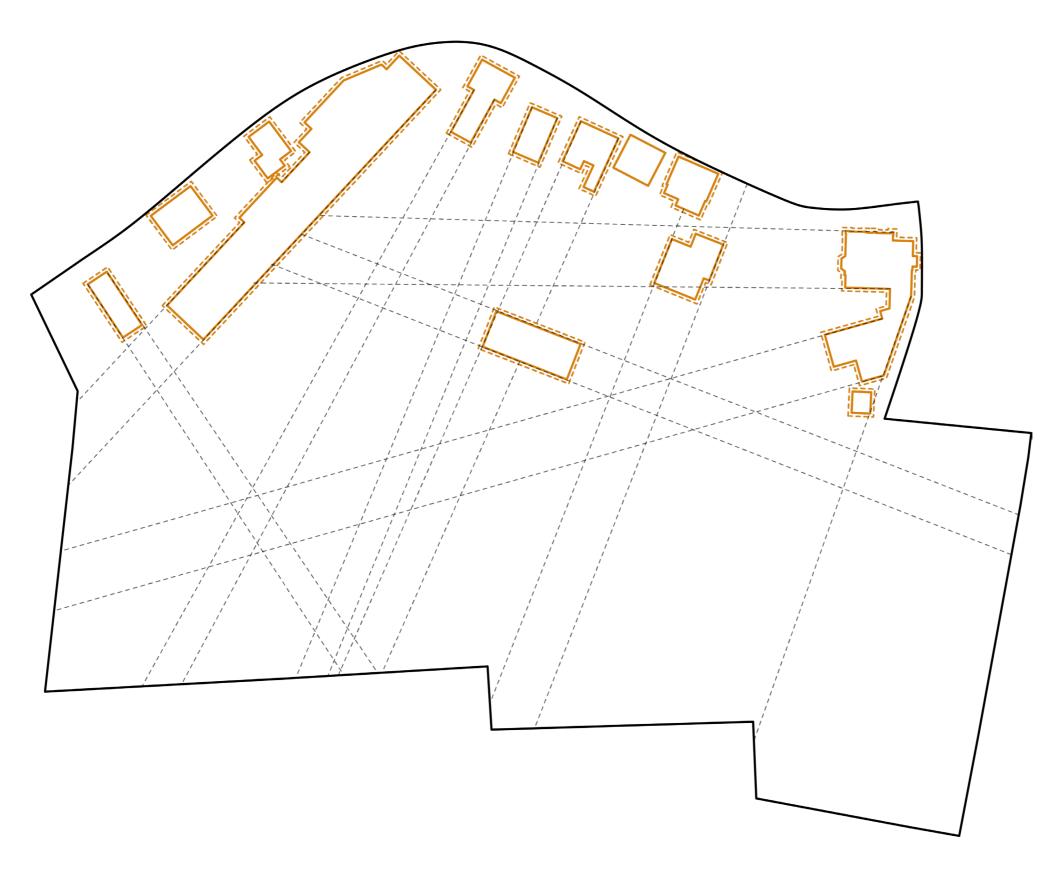


#### Research

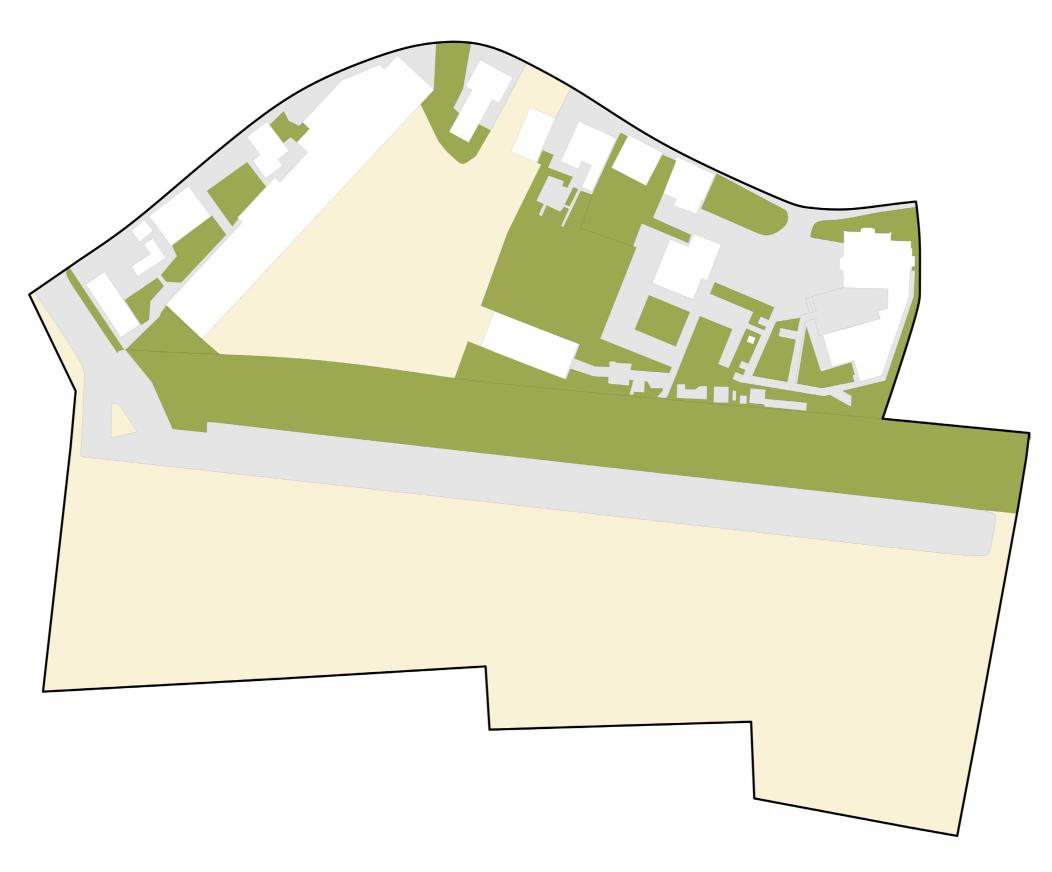
- 1. The collection tells a limited story
- 2. The accessibility has to be improved.
- 3. The assemblage is incoherent
- 4. International educational maritime hub.
- 5. Restoring the connection between the museum and the water
- 6. Connect both areas of the dike
- 7. 'Het Plaatje' is due to development

#### Research

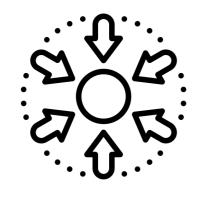




#### Research



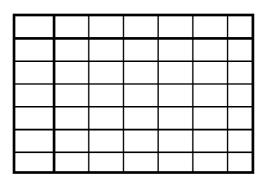
#### Research







Other musea



Value assement

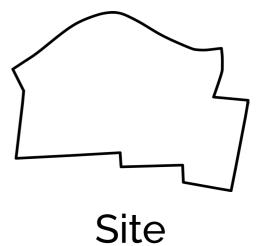
## **Design brief**

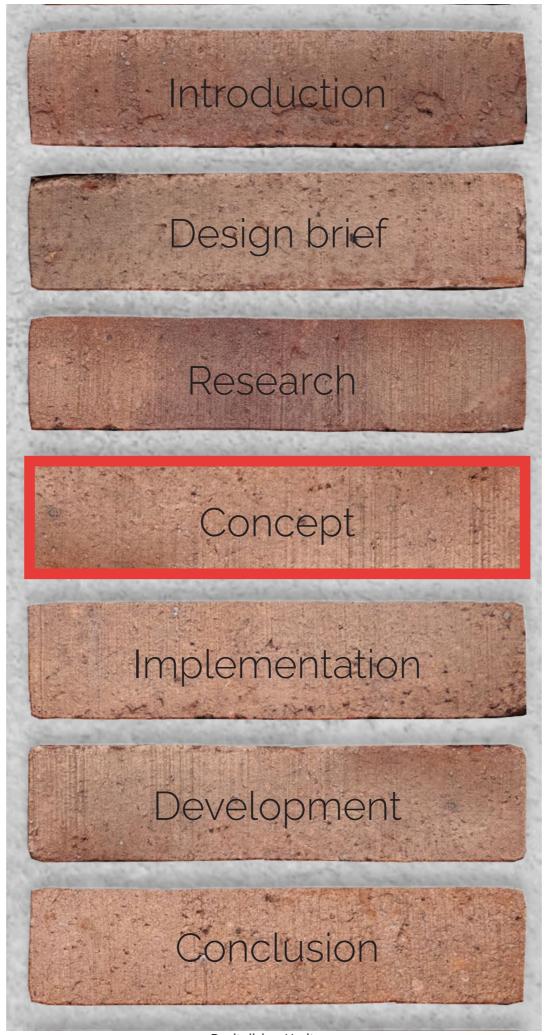
Nationaal Bagger museum

Client



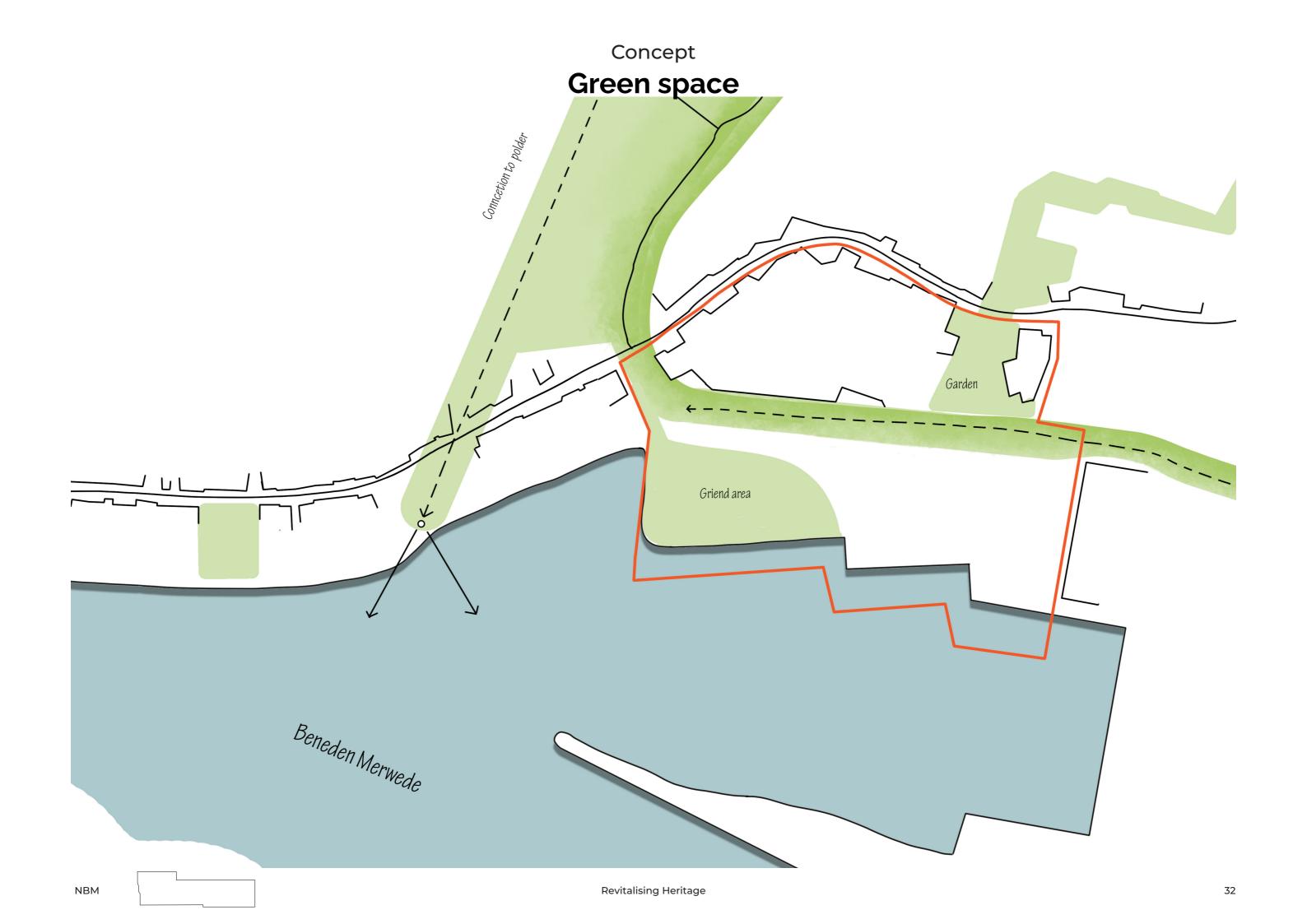
Program





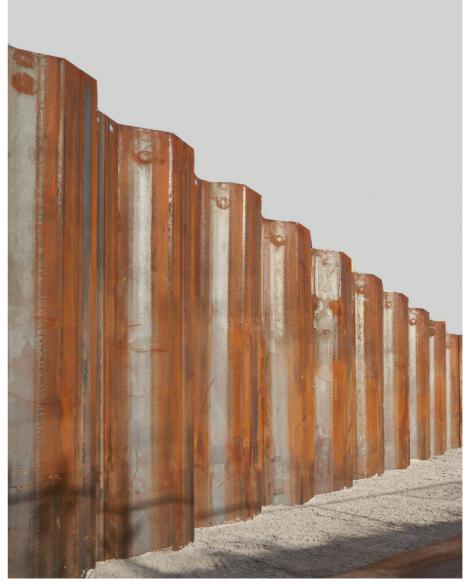
Concept Public dike connecting to centre Sliedrecht











#### Concept

#### **Premise**

'People can deal with something new only when they can make a connection with something familiar.'

# Concept **Surrounding Buildings**



Town hall, Doctor langeveldplein 30 (Part of the Expansion)

**Municipal buildings** 

Reformed church, Middeldiepstraat 6

**Church Buildings** 

House of the familily bos

Contractor buildings

Entrance (old Church)

## New Dredging museum

Blauw reliëf (Nationaal Bagger museum)



Town hall Layered overhang

NBM

Revitalising Heritage

## Concept **Agglomeration of Elements**



Steel columns (Van Eijck shipyard)



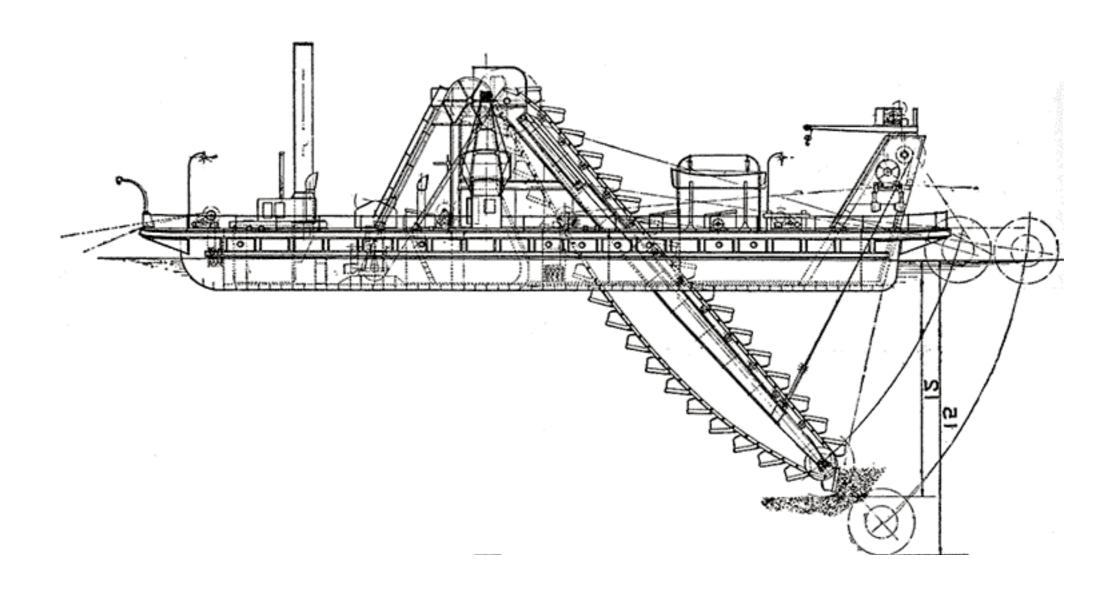
Glass stained window (Nationaal Baggermuseum)

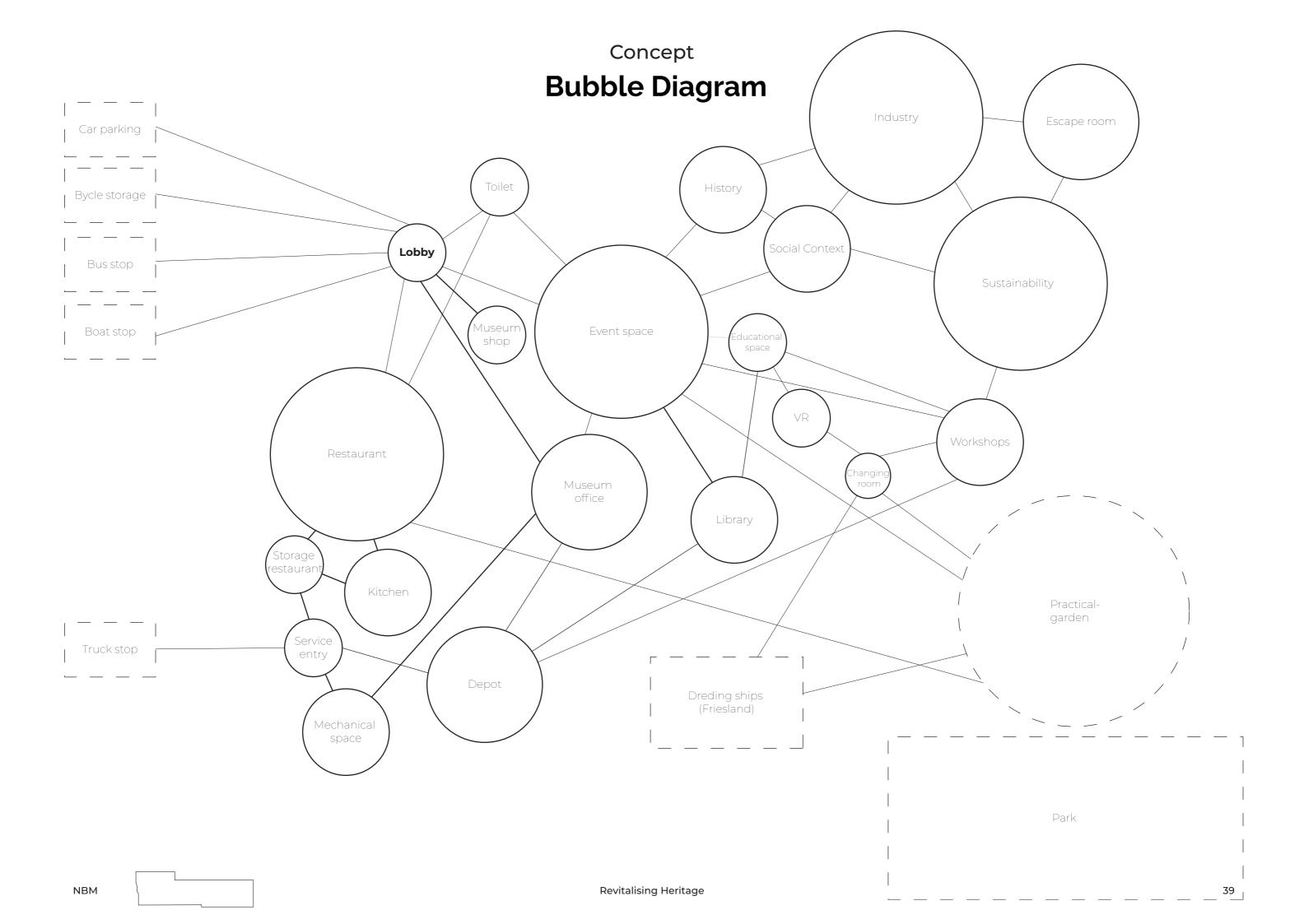


37

Gridded structure Van Eijck hal

### Shape



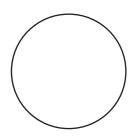


### Concept

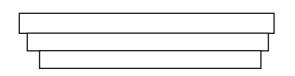
### **Overview concept**

Round inviting Streamlined

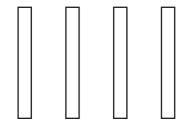
<u>Shape</u>



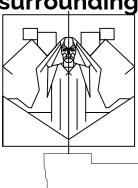
Layered



Grid

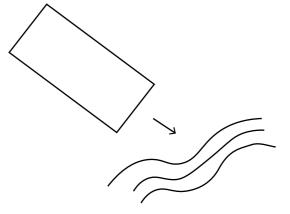


**Elements of surrounding** 

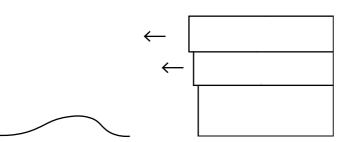


<u>Site</u>

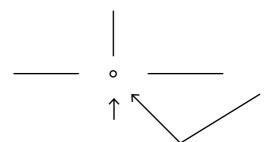
Oriantation towards water



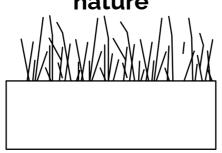
Connected to dyke



Frontal approach and Oblique approach



Integration of nature



**Material** 

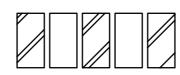
**Concrete Cellar** 



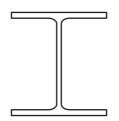
**Wood flooring** 



**Earthly cladding** 

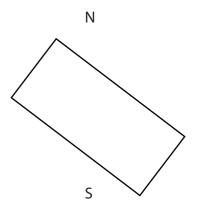


**Steel structure** 

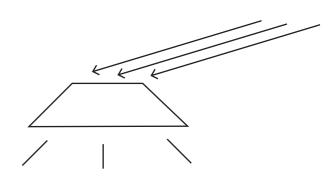


<u>Light</u>

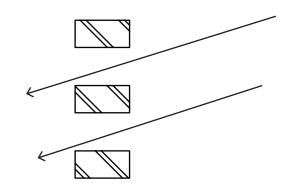
**Orientation on sun** 



Different uses of daylight



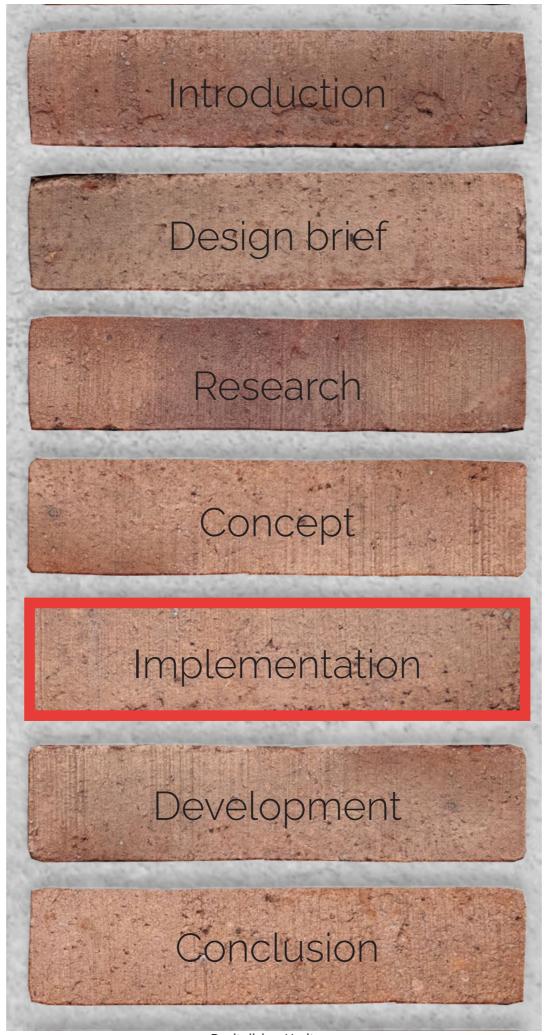
**Preforated surface** 

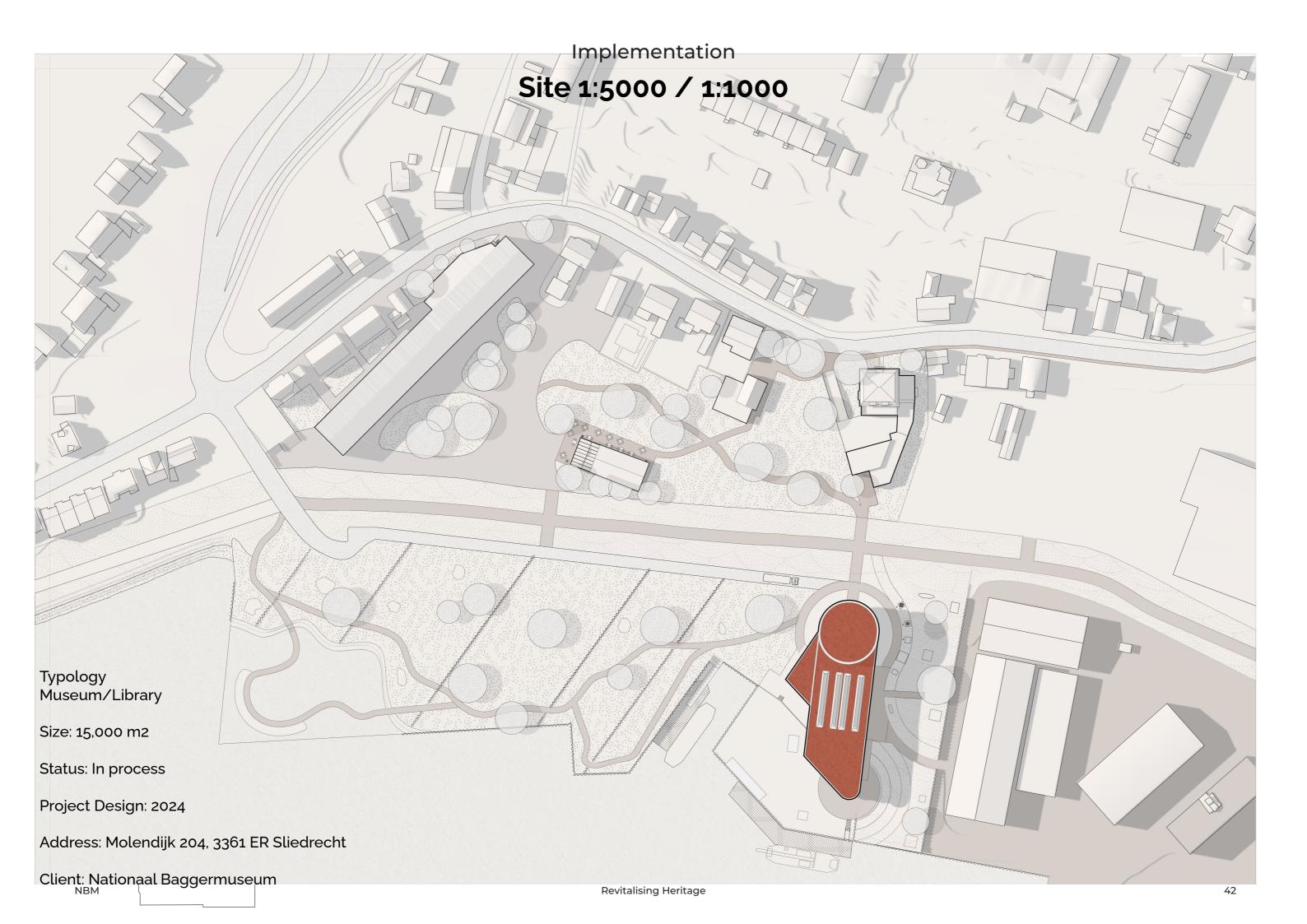


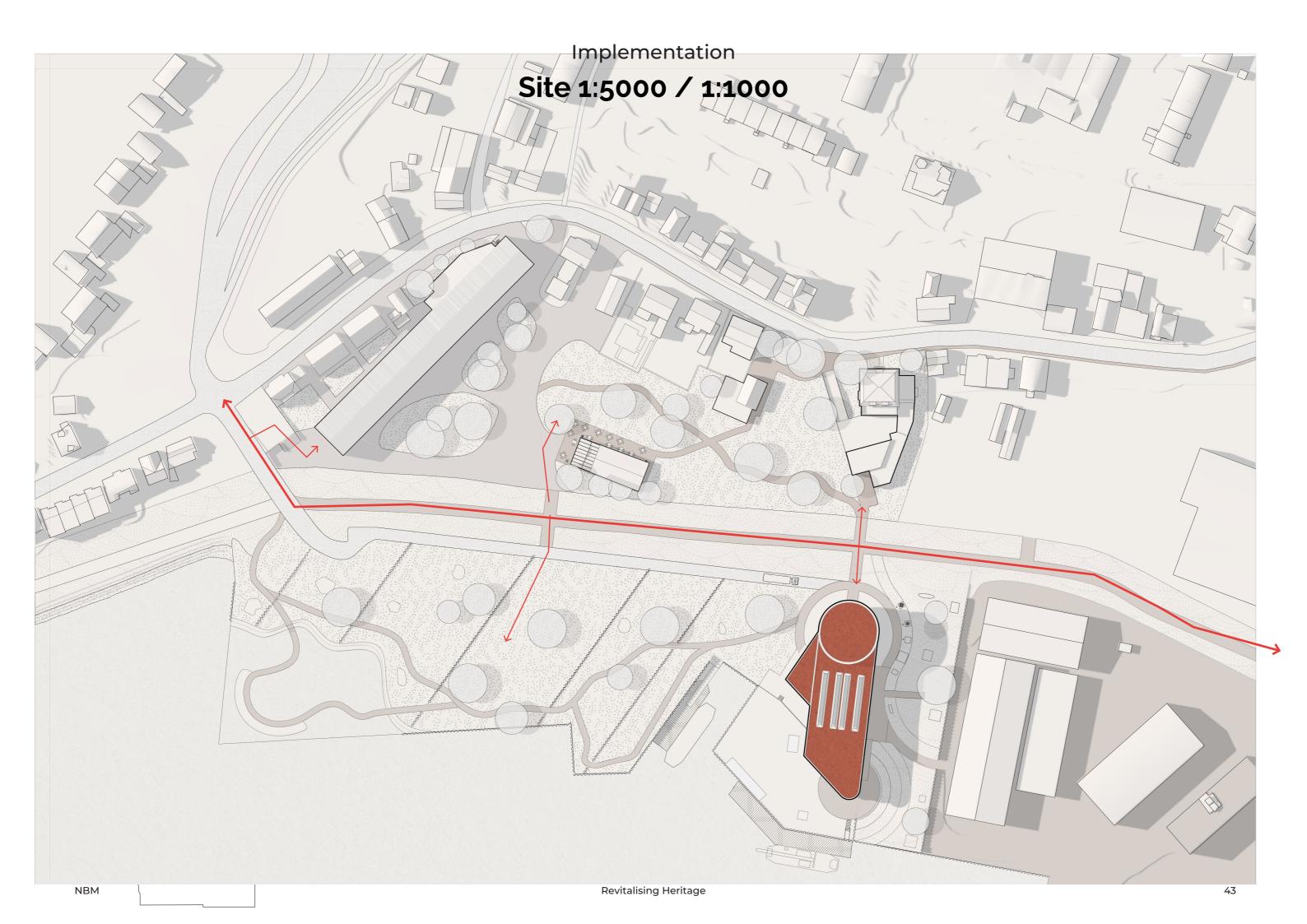
NBM

Revitalising Heritage

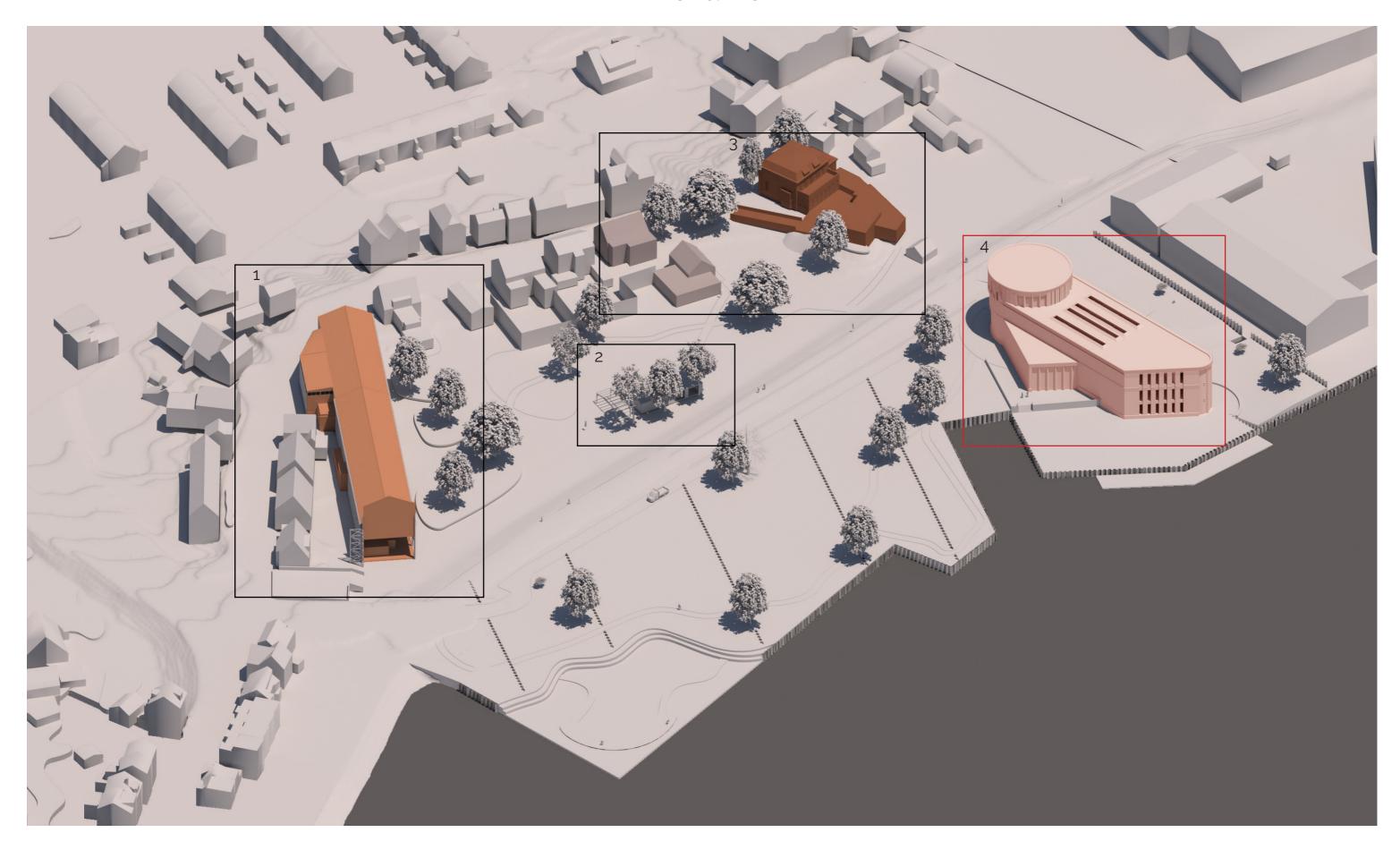
40

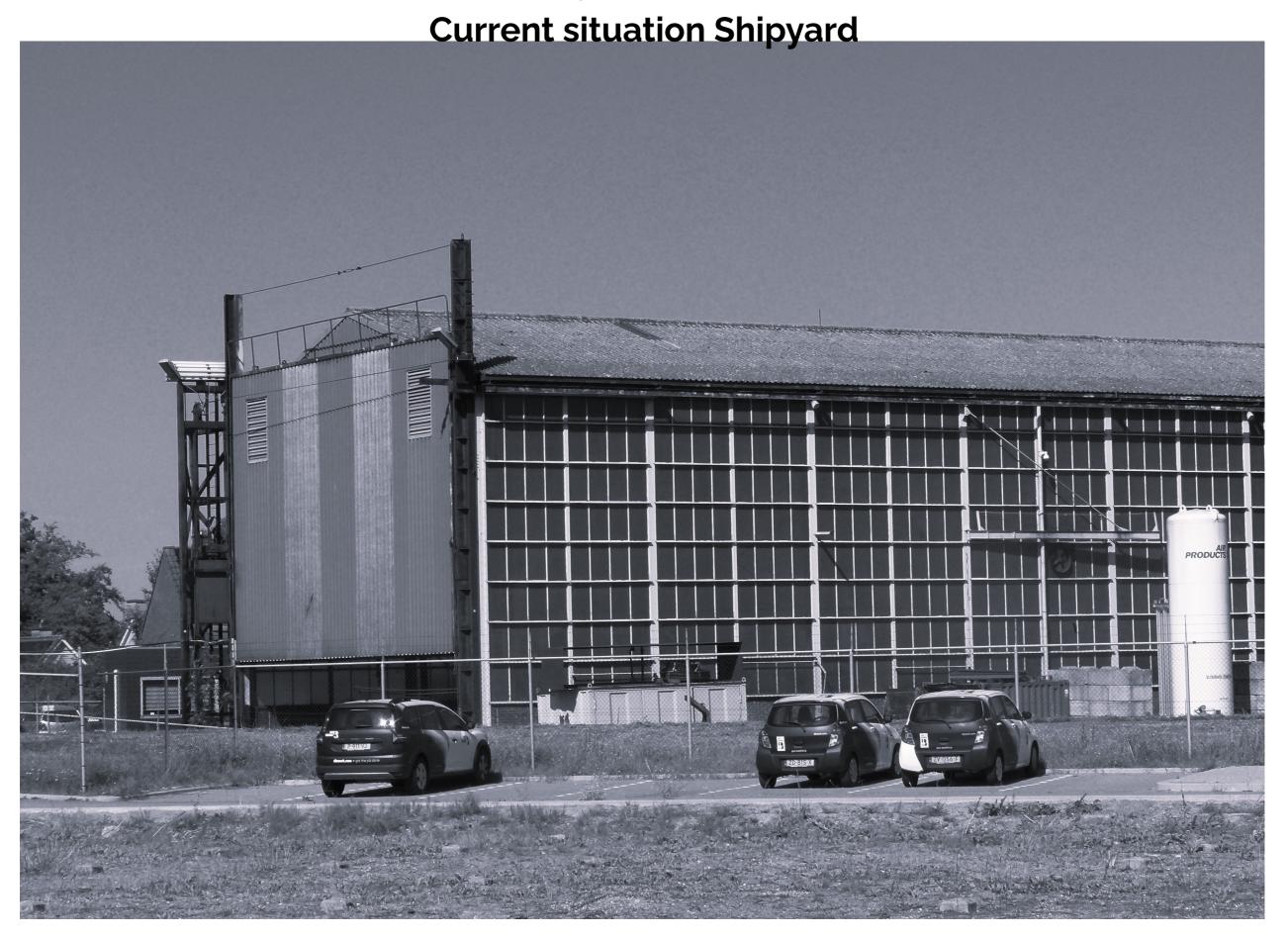


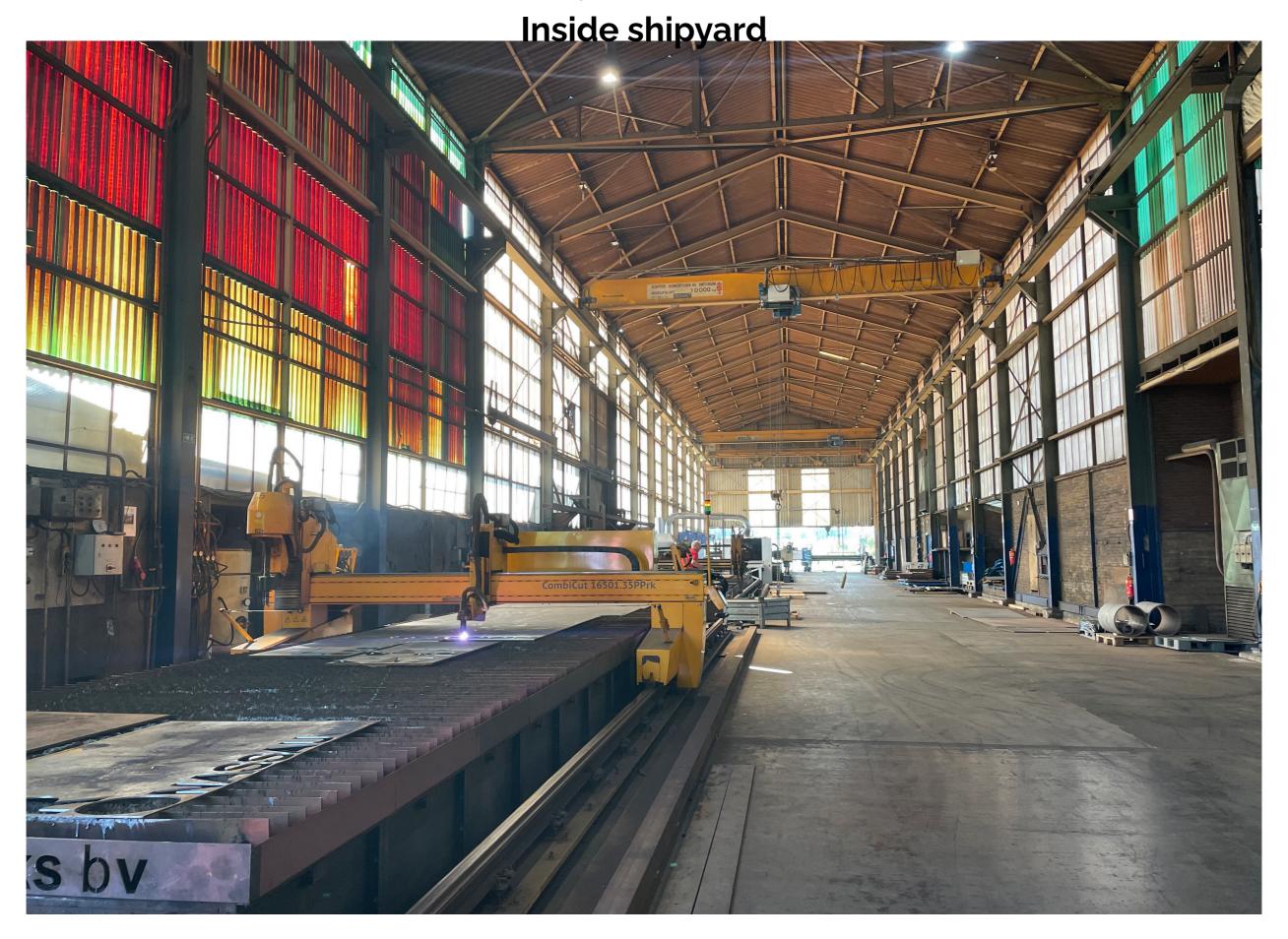




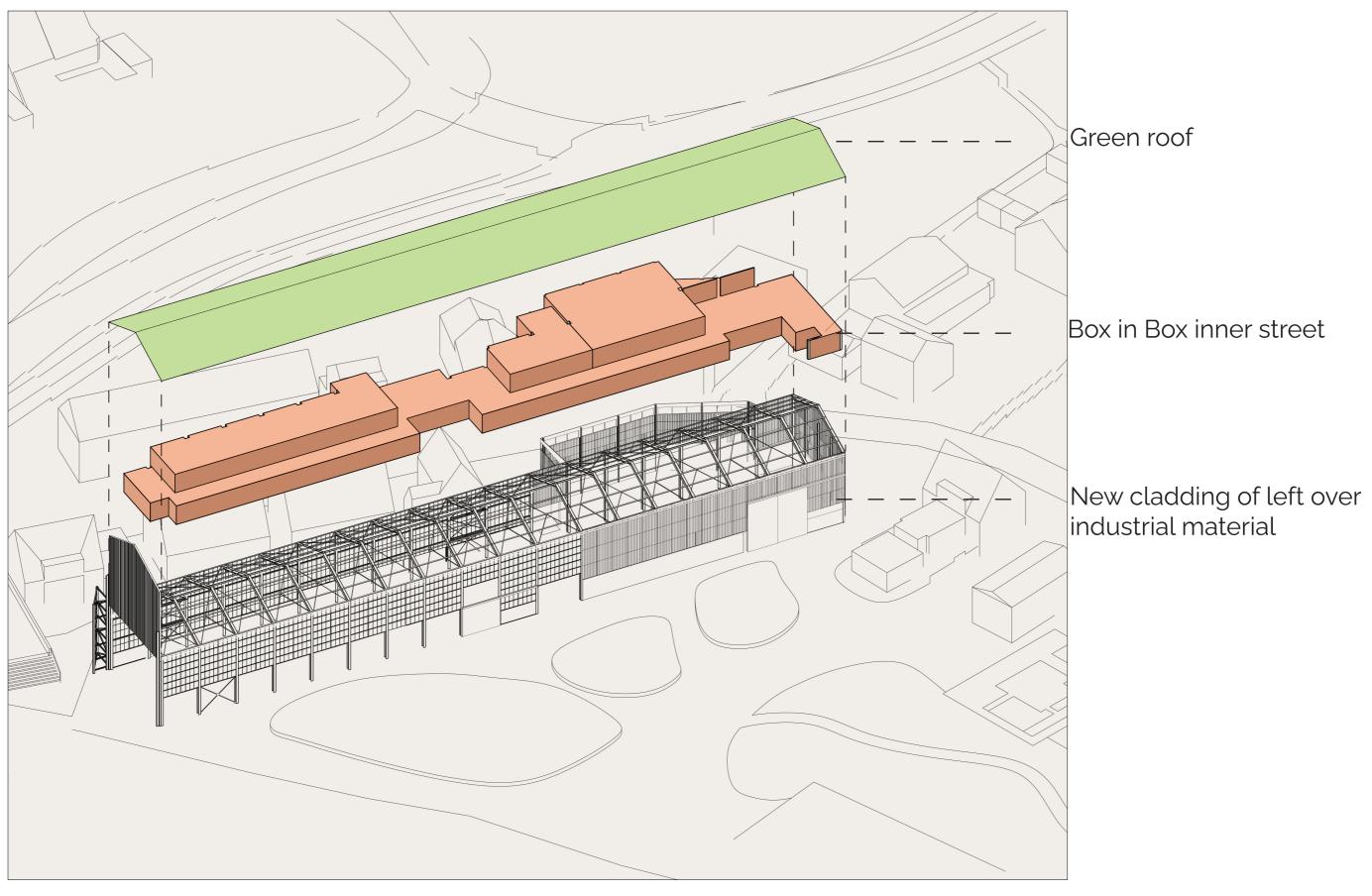
### Innerdike



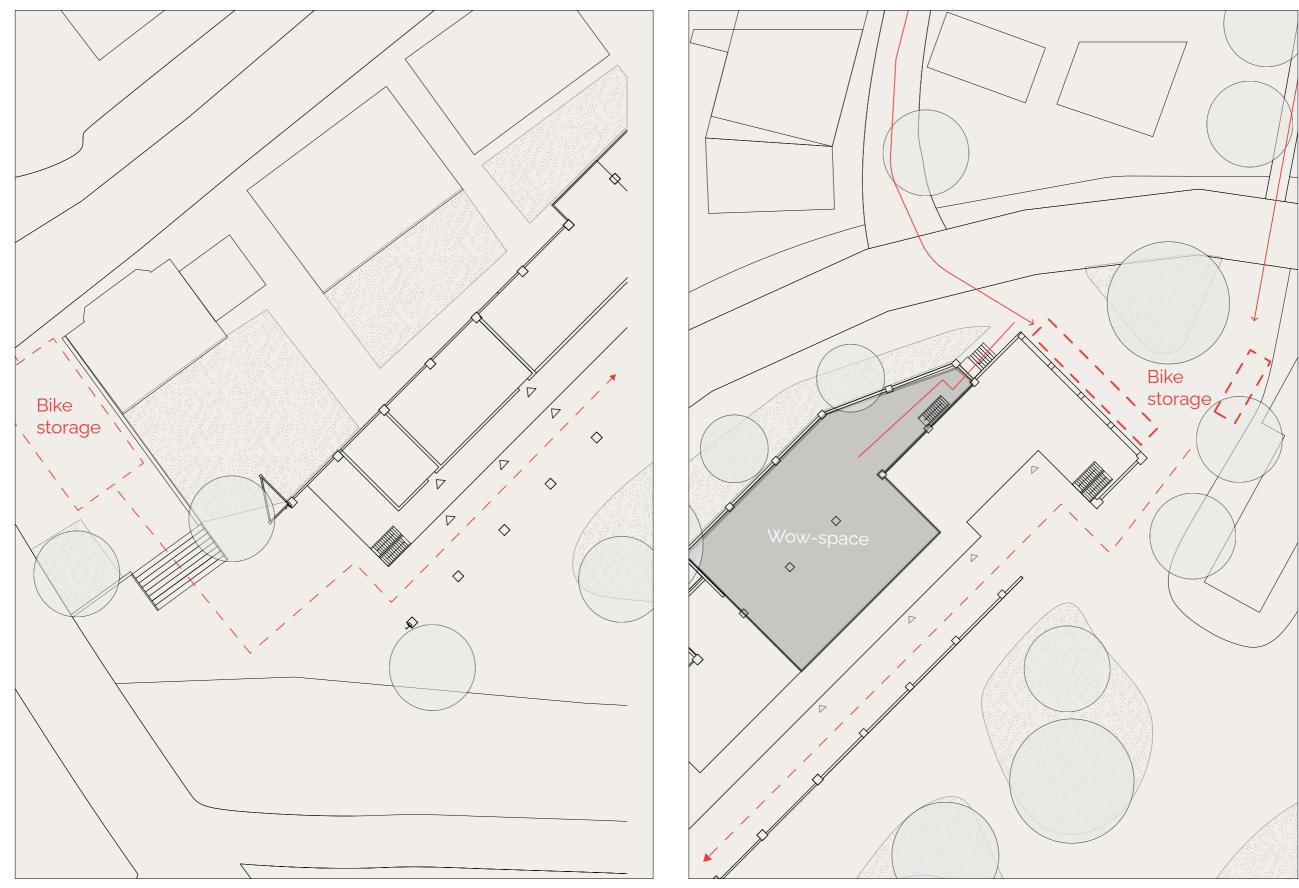


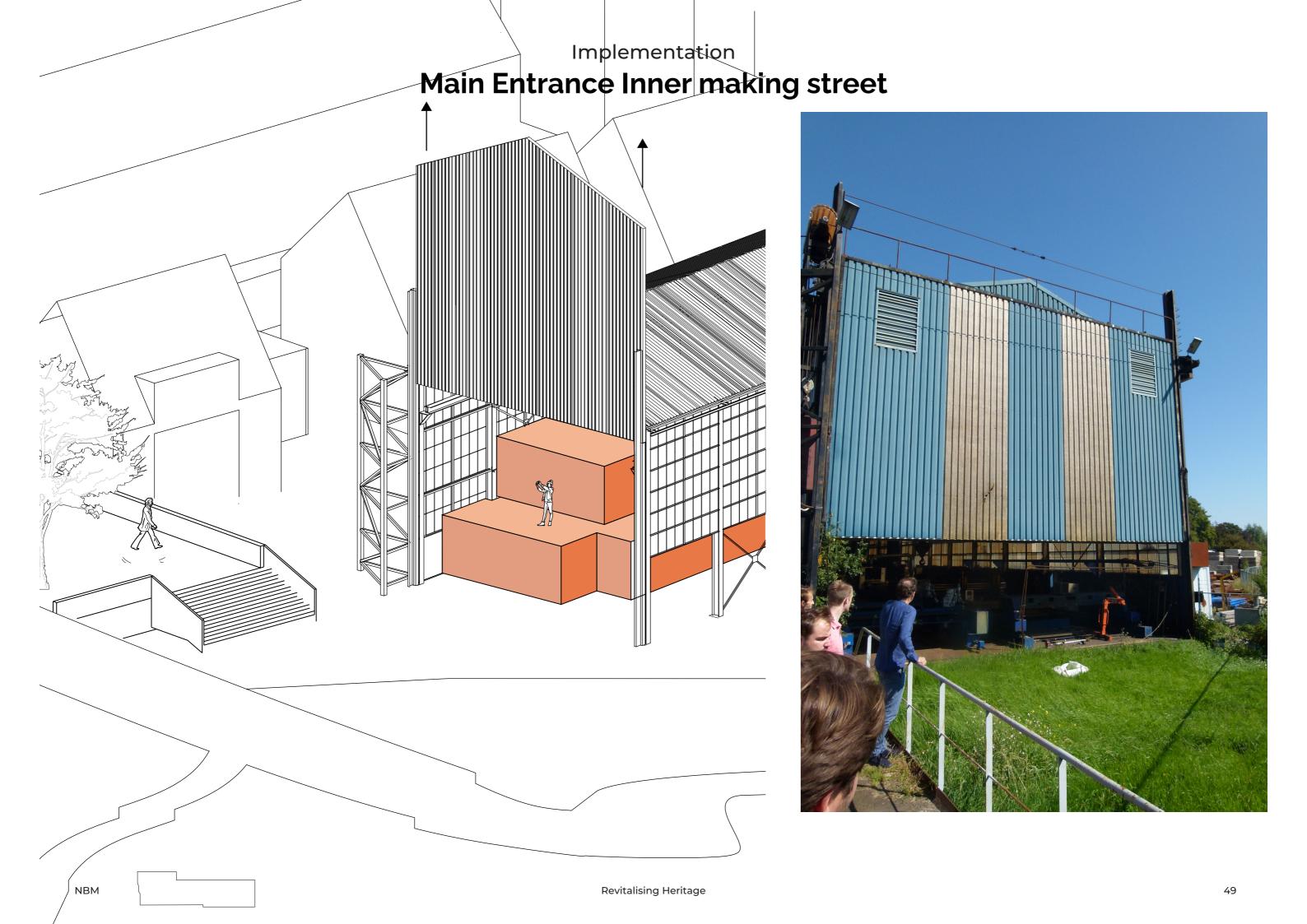


# Redesign shipyard

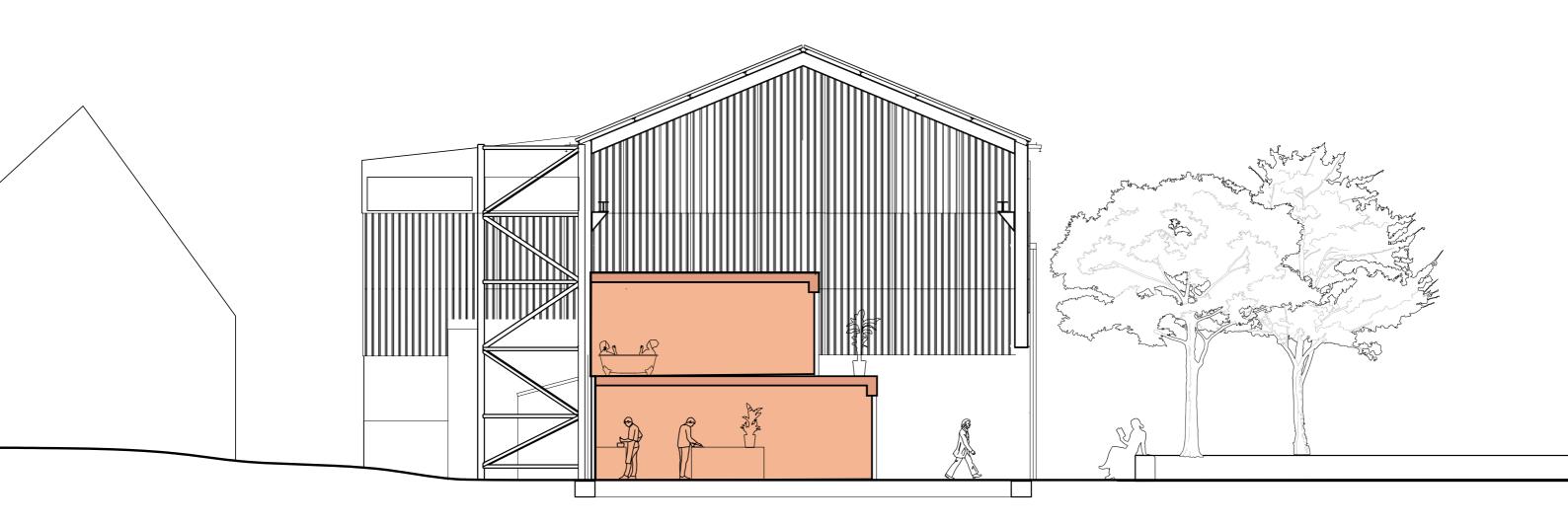


# Redesign shipyard

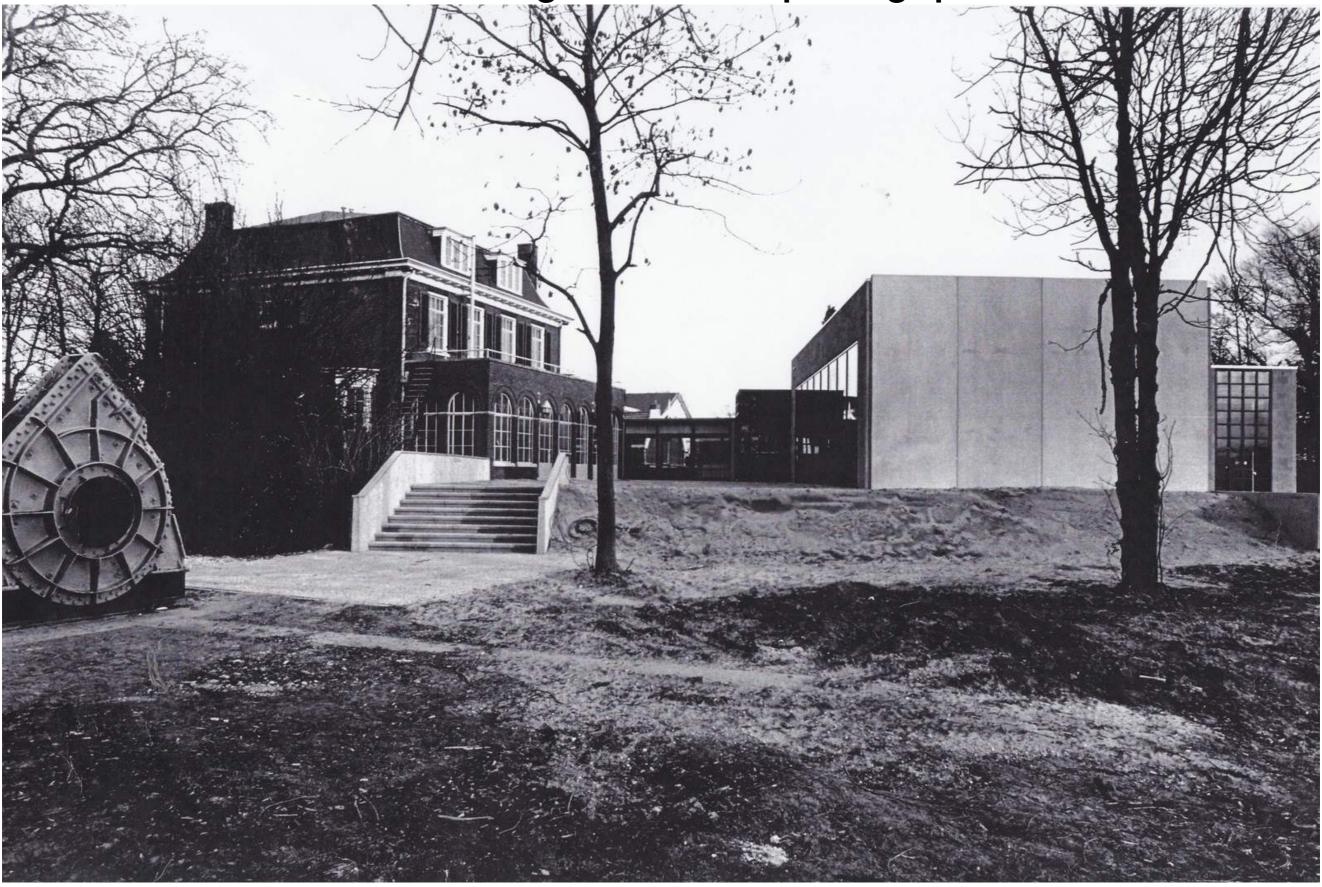




# **Section Inner making street**

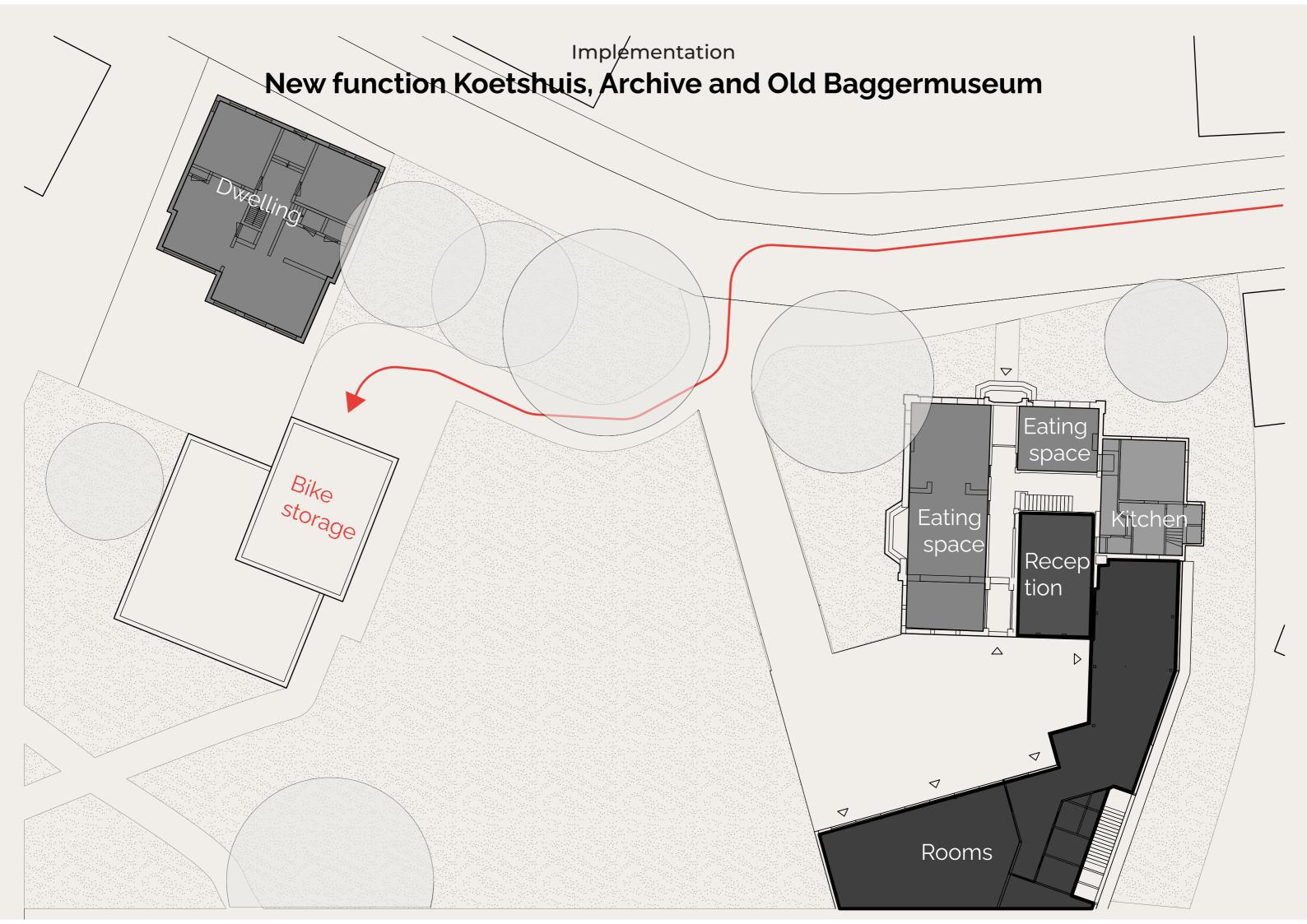


# Old museum garden before parking spots



## **Current situation Koetshuis**

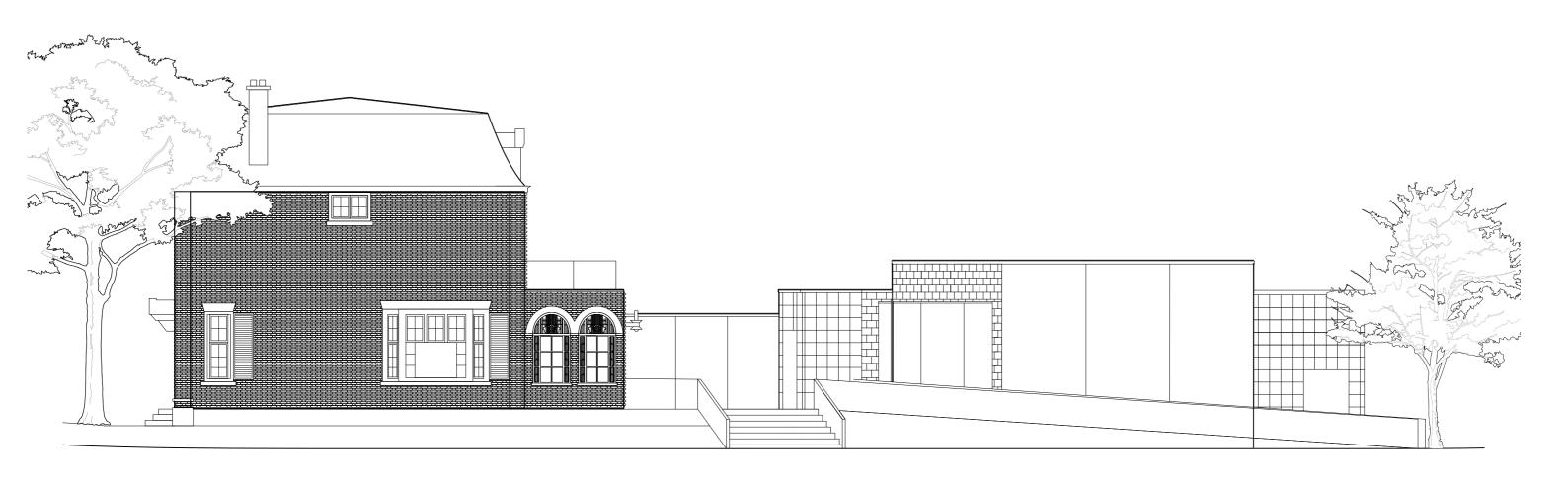




# Concrete Block facade



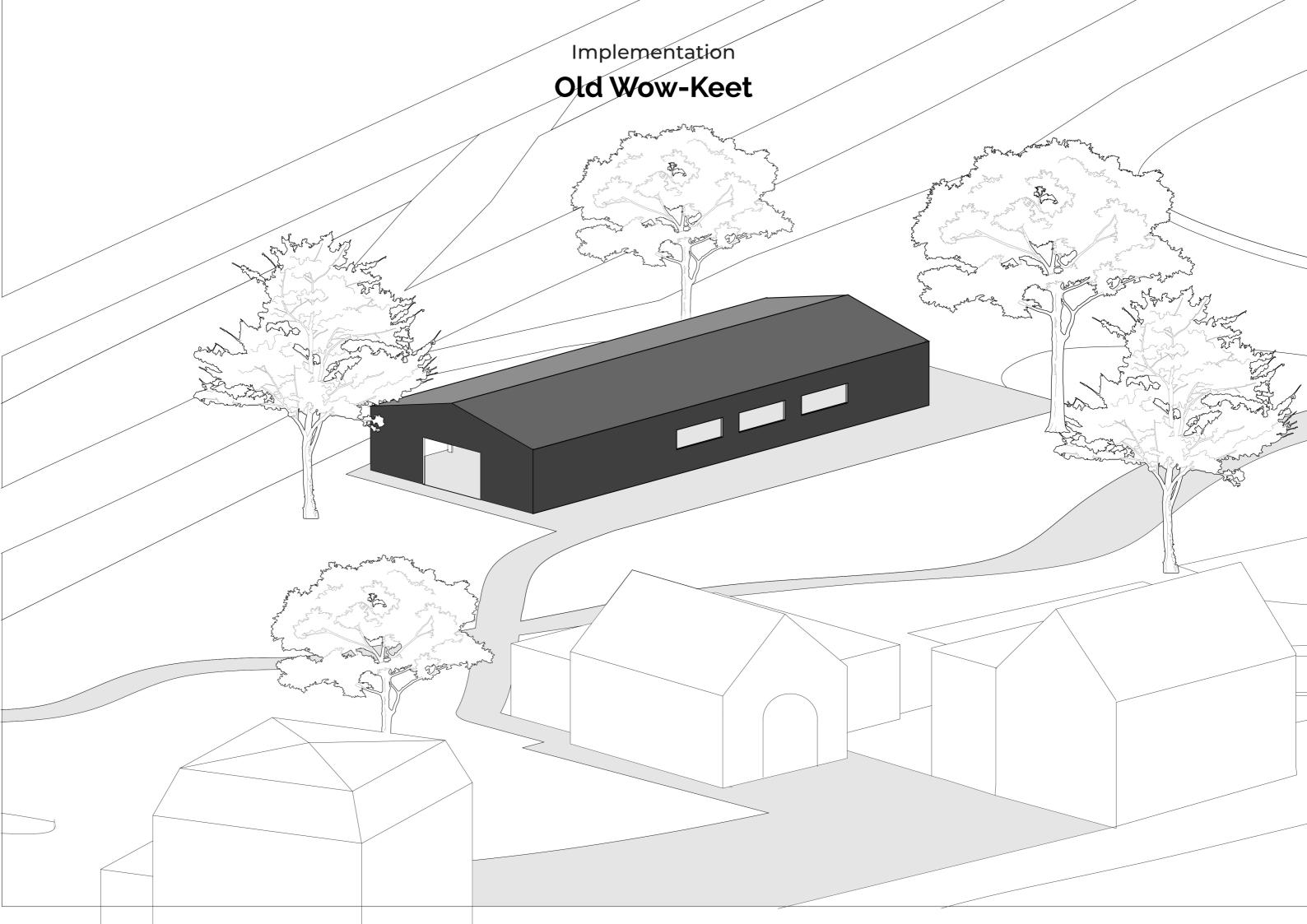
### Old situation extension

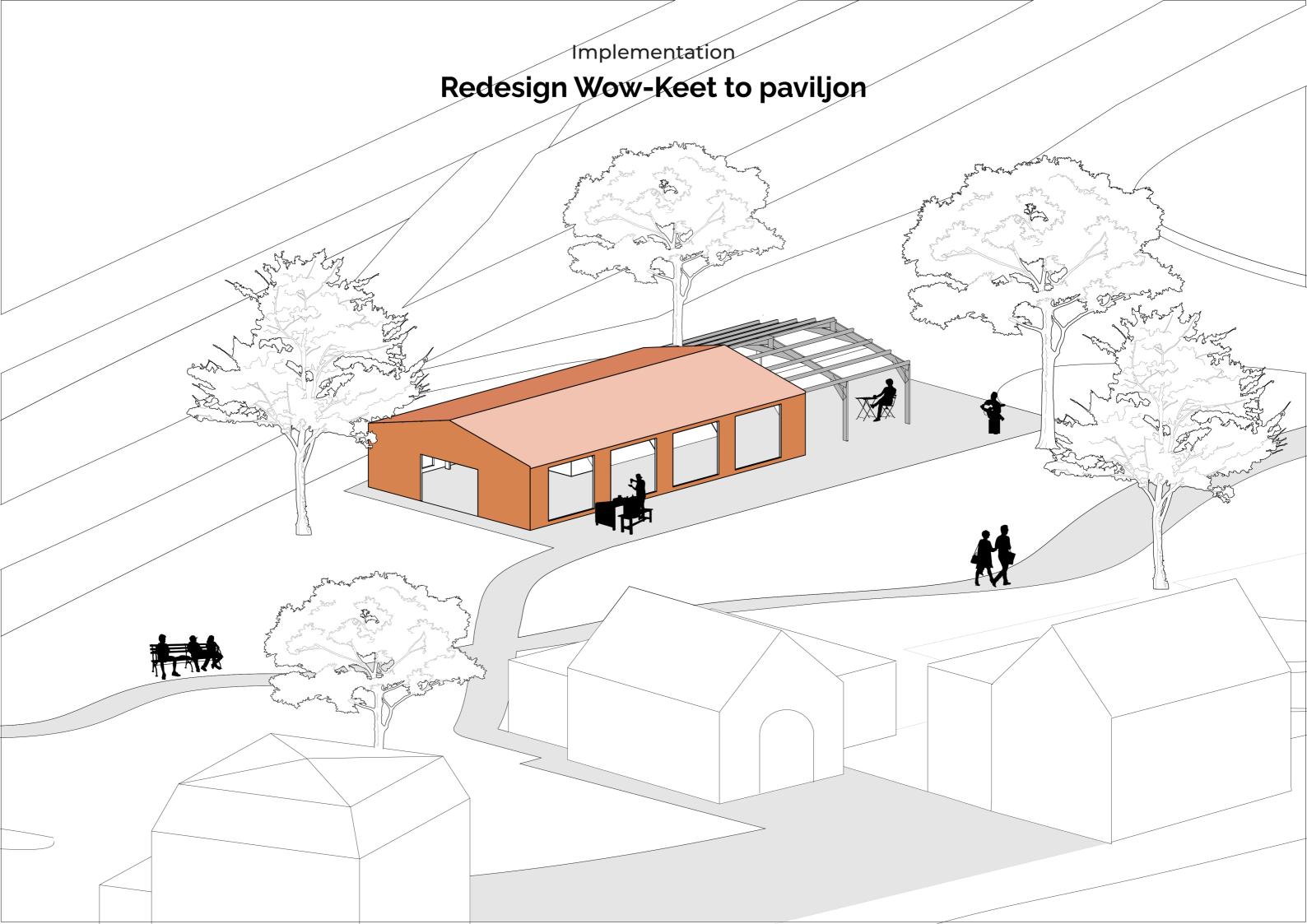


# Change facade of extension

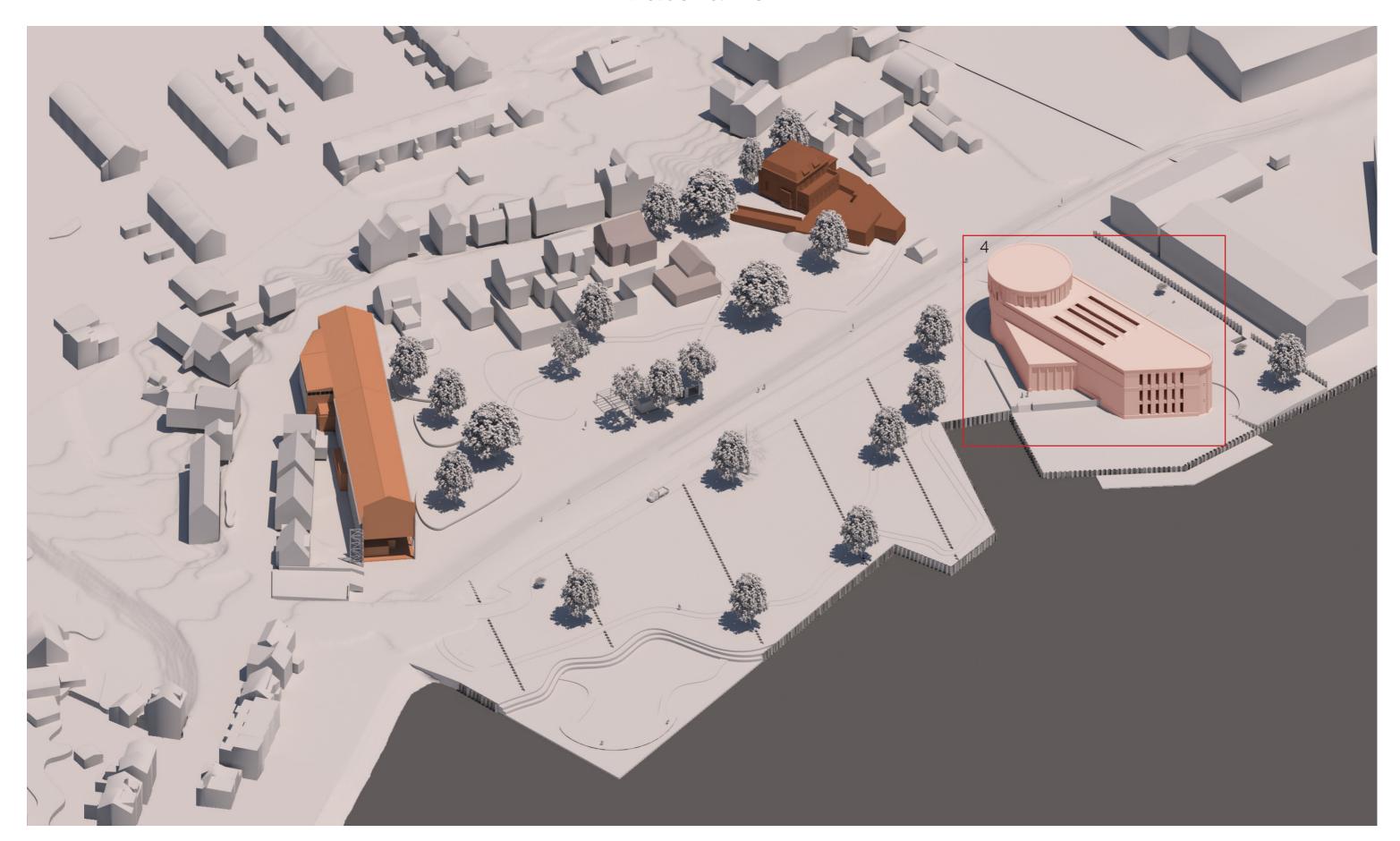




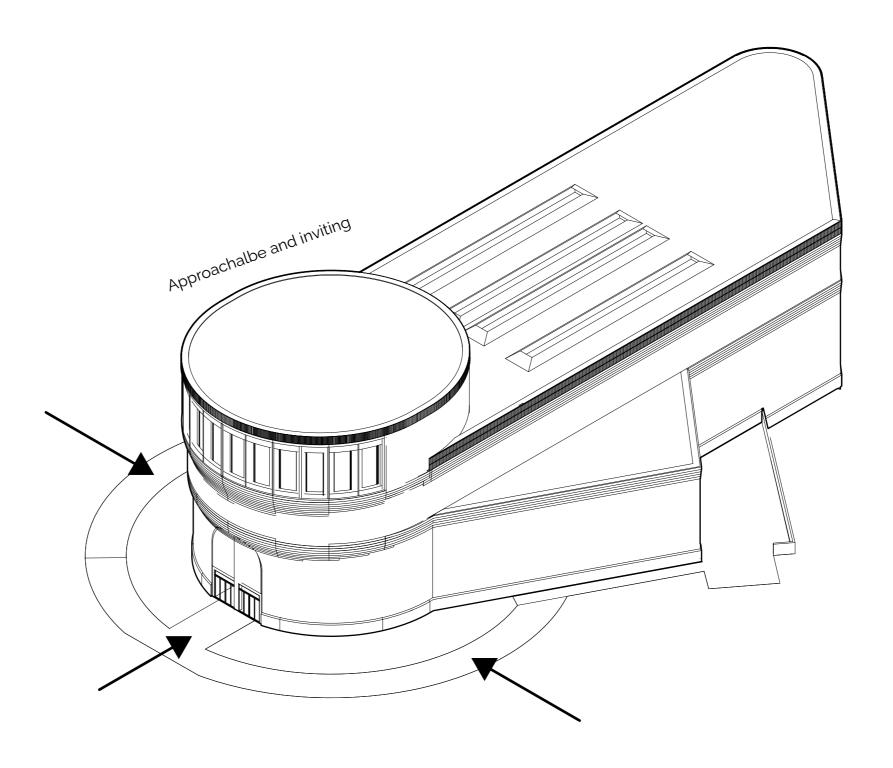




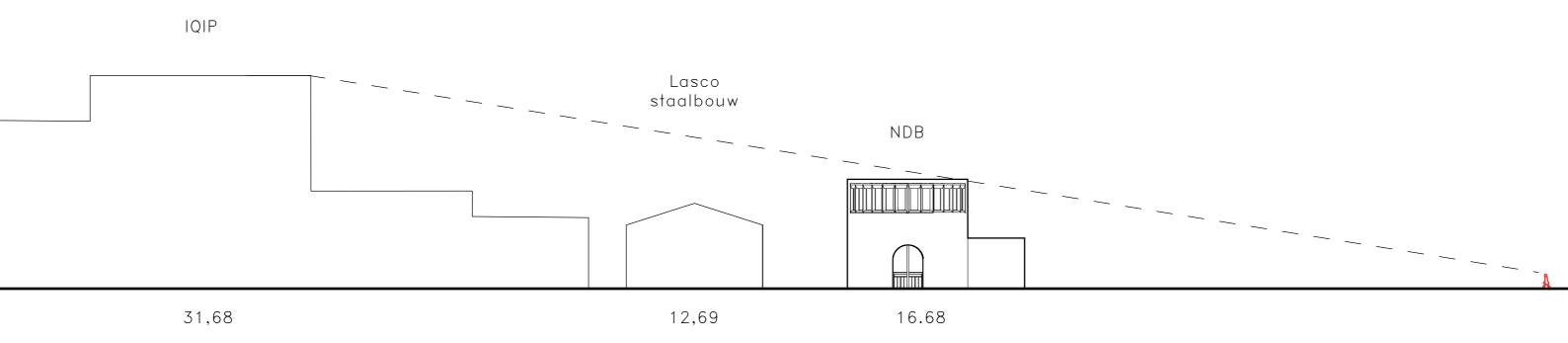
### Outerdike



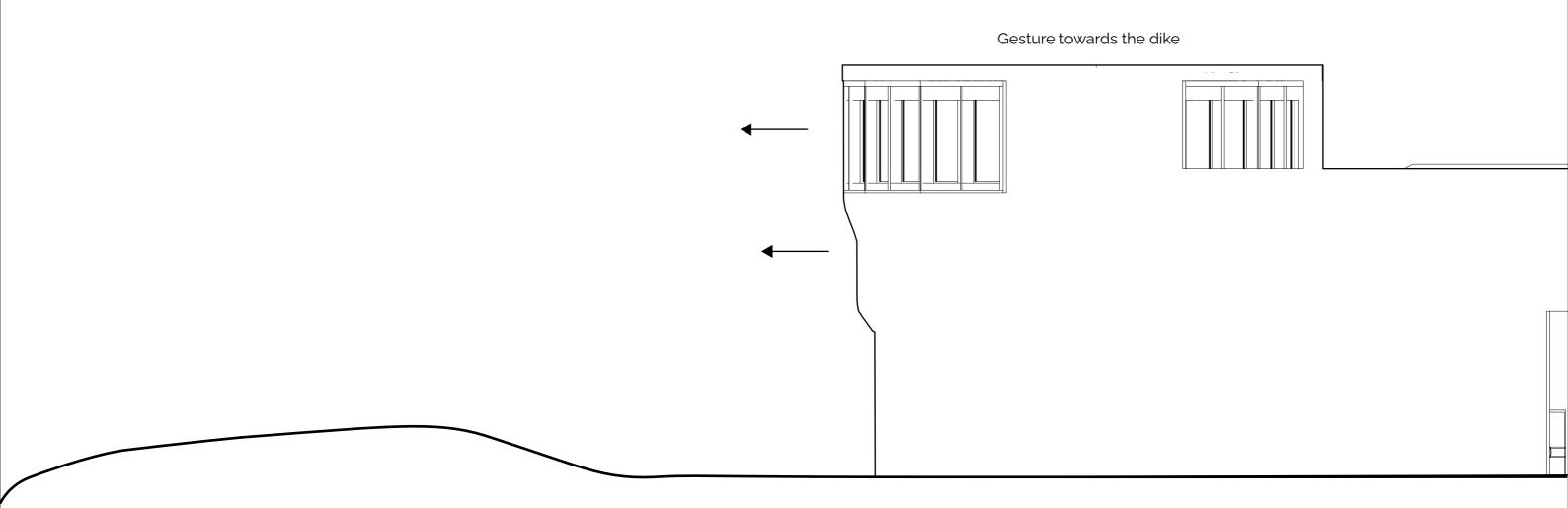
# Approachable and inviting

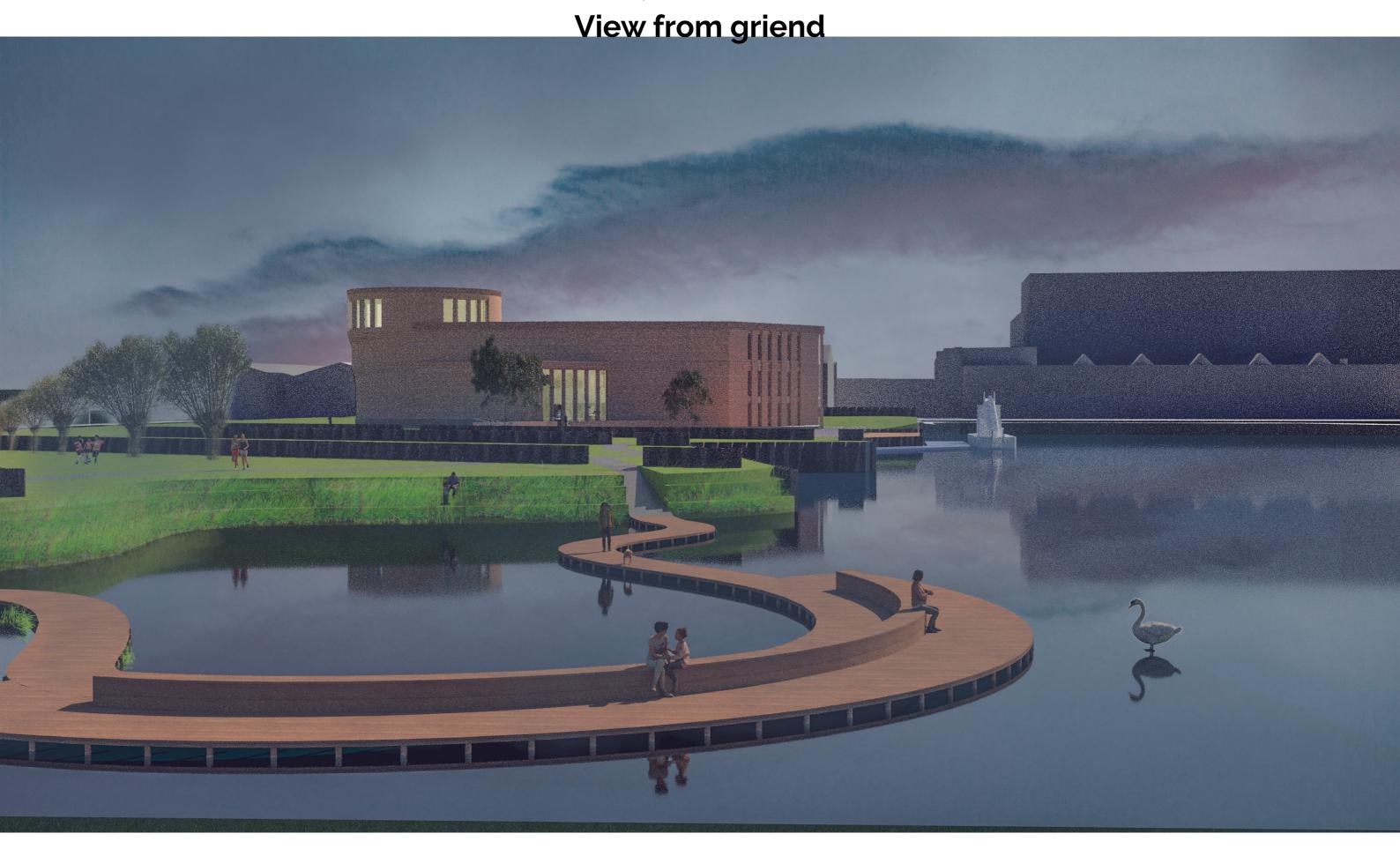


# Height relationship to surrounding

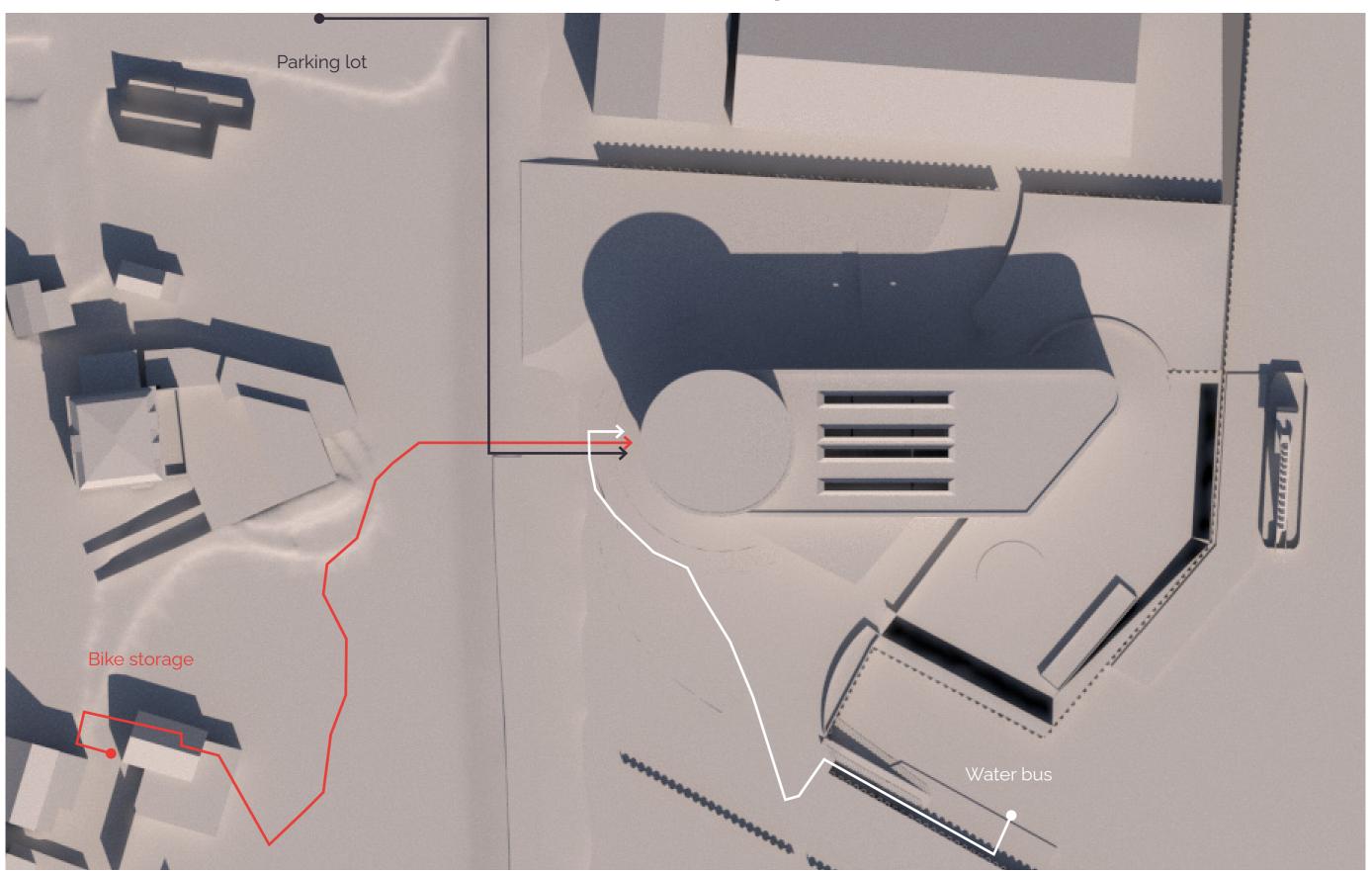


### Gesture toward new dike

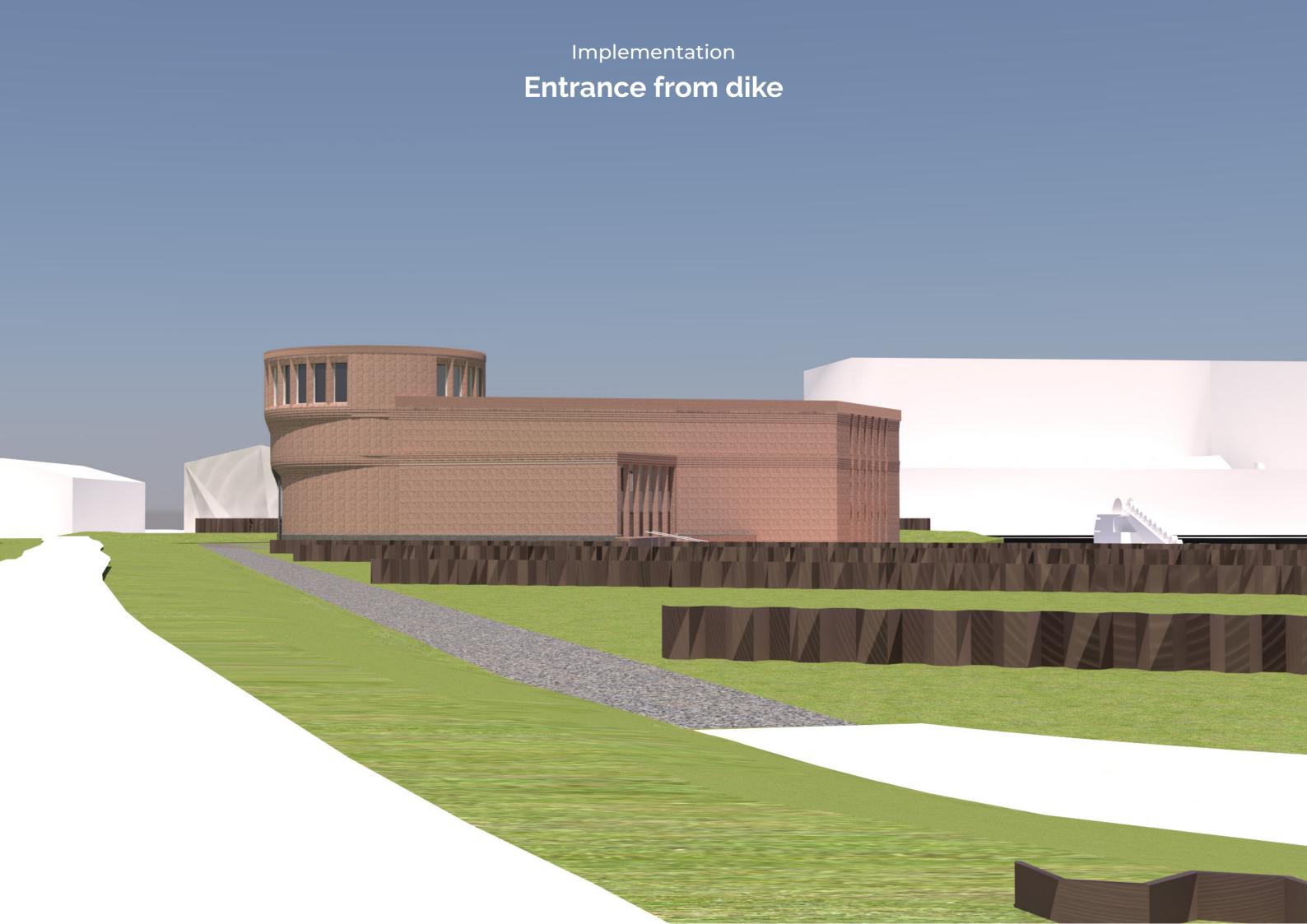




# **Modes of transport**



# Implementation **Entrance from dike**

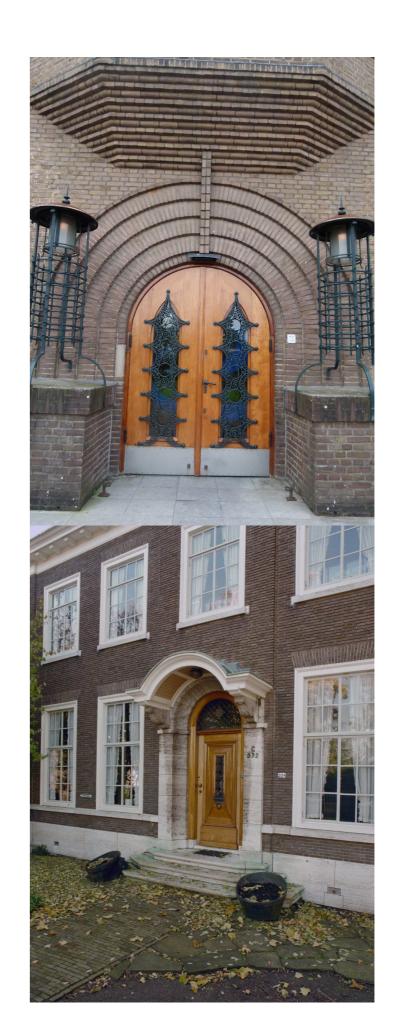






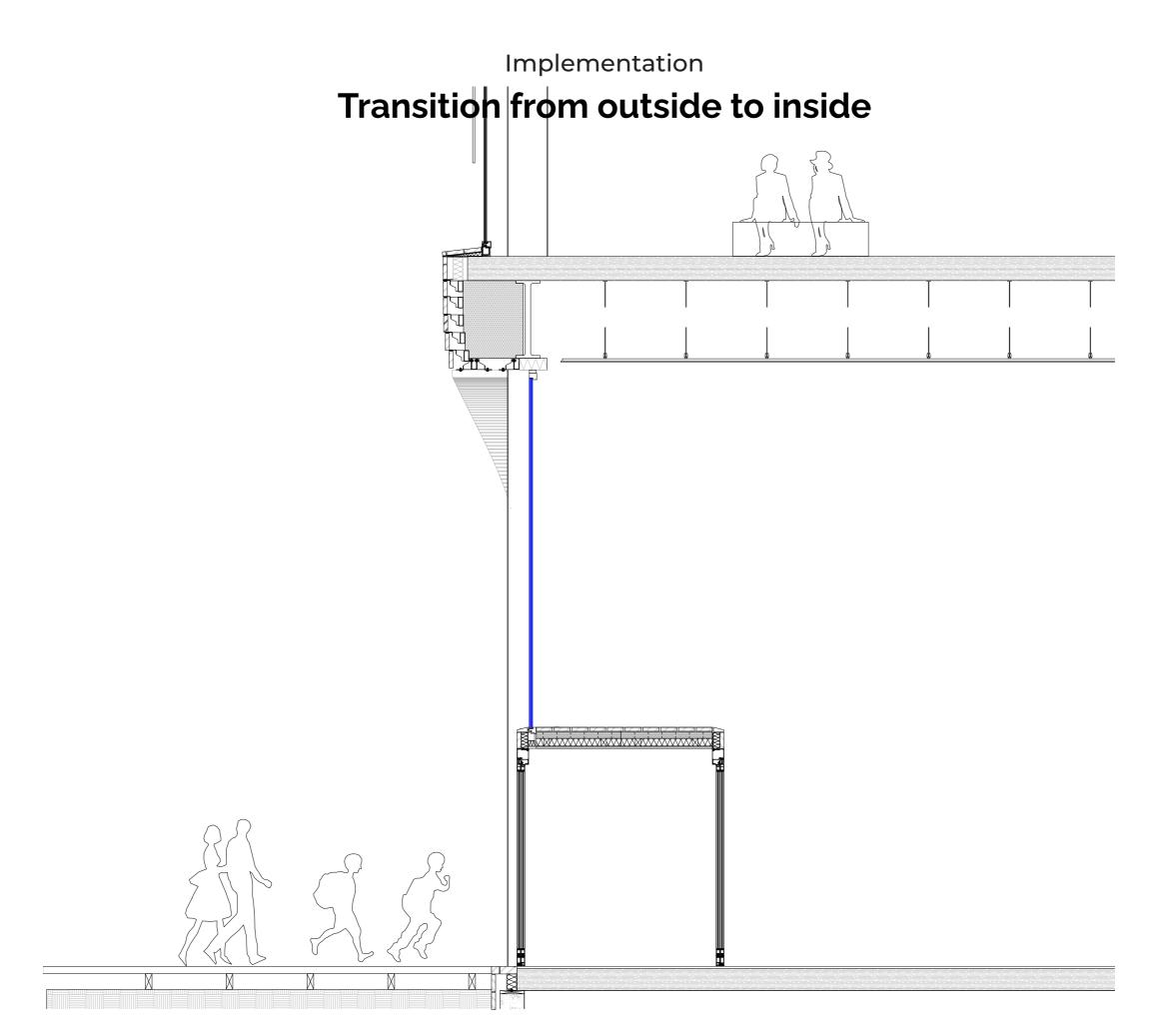
### **Traditional Entrance**





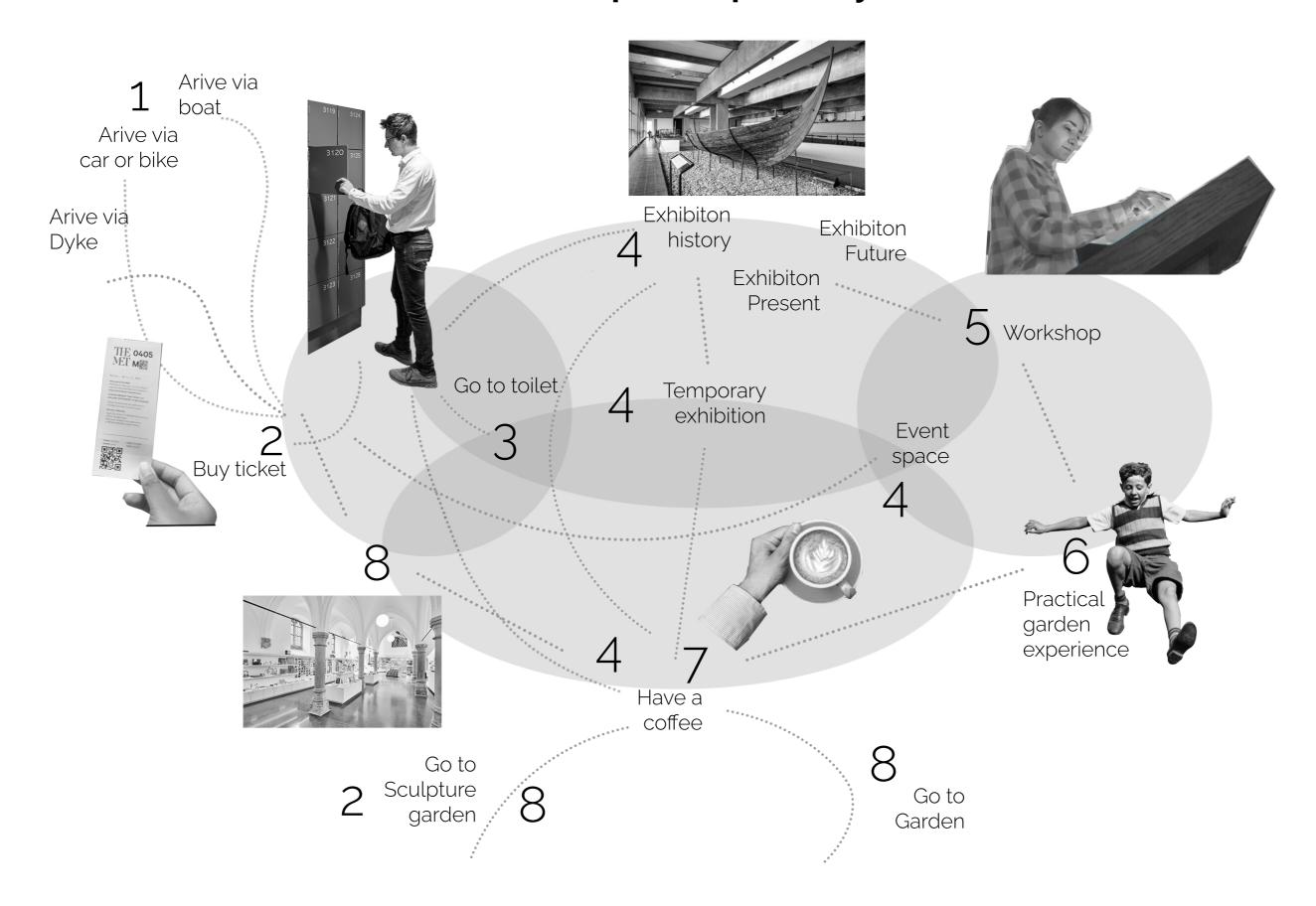
Town hall Sliedrecht

Old Dredging Museum

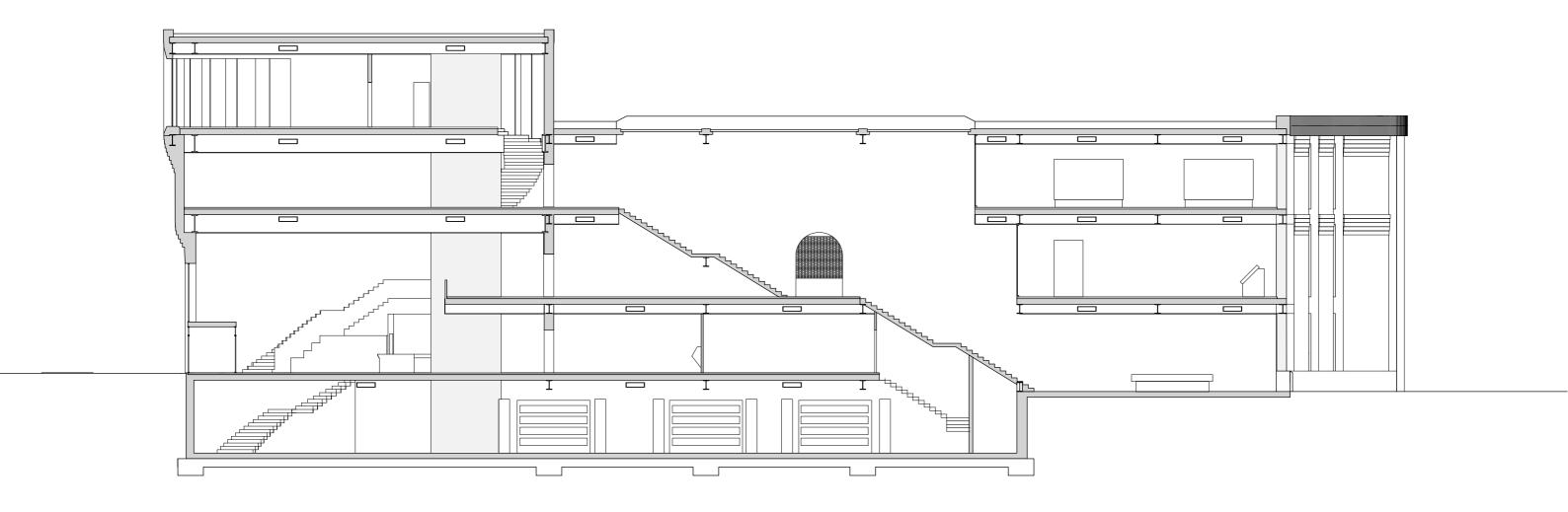




### **Show sequence pathway**

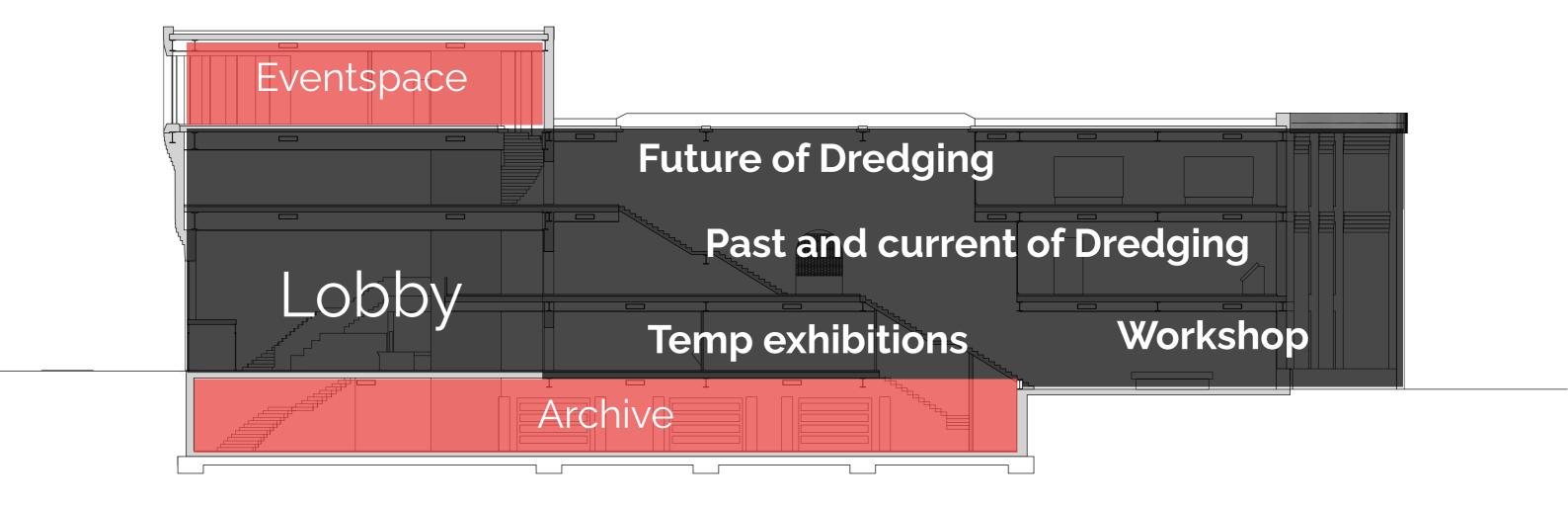


# **Main Layout**



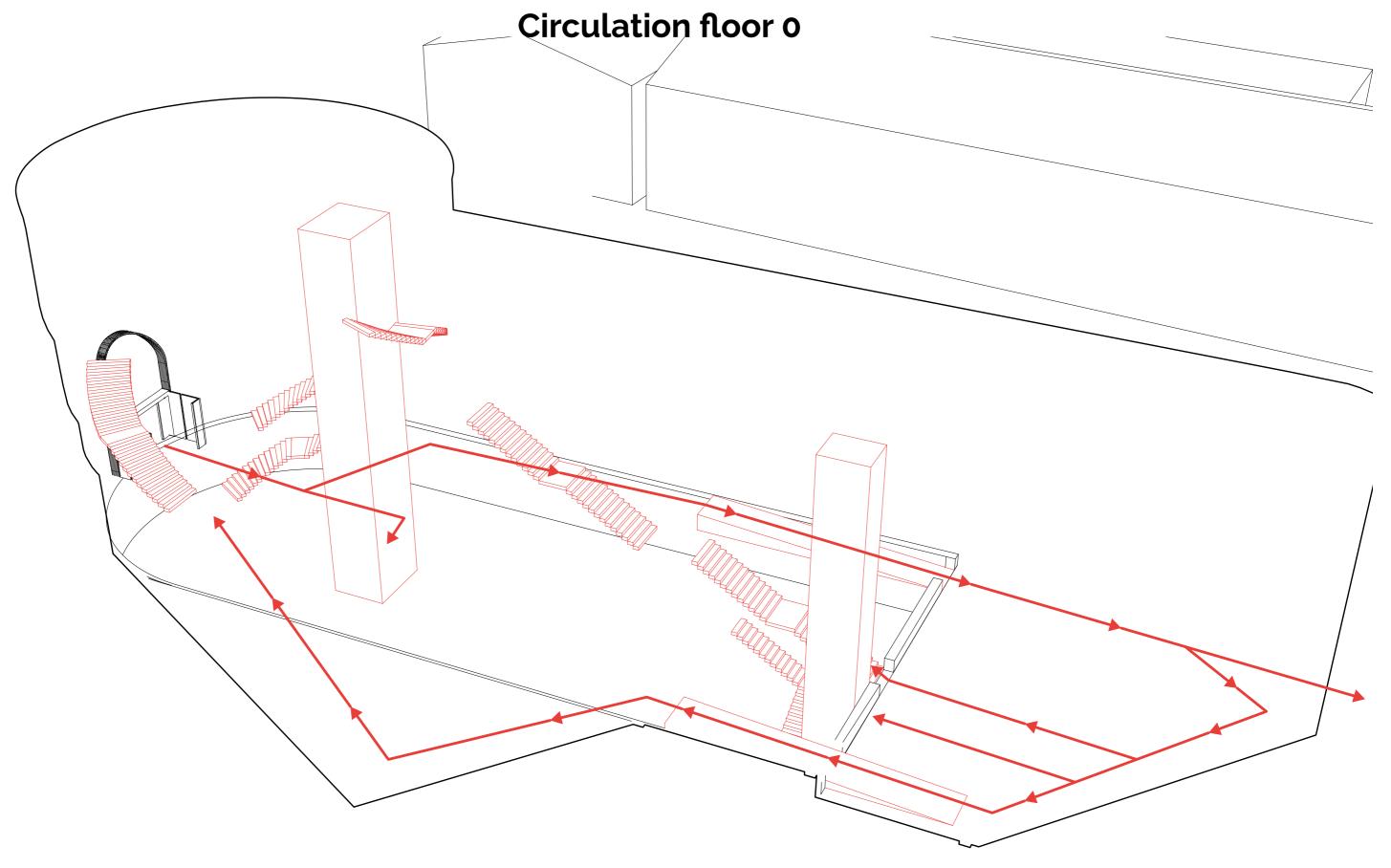
1:200 Front Section A-A

## **Main Layout**

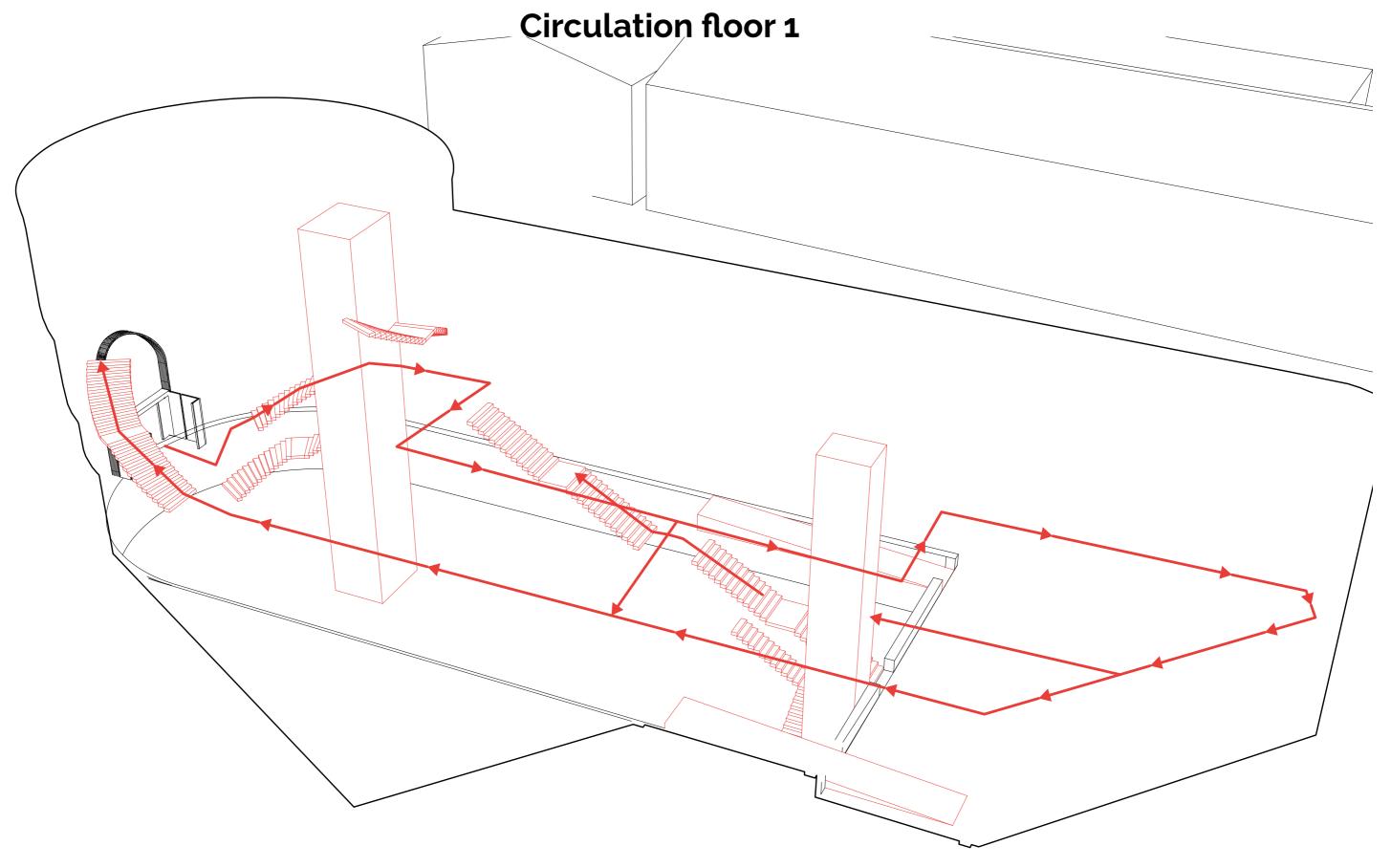


1:200 Front Section

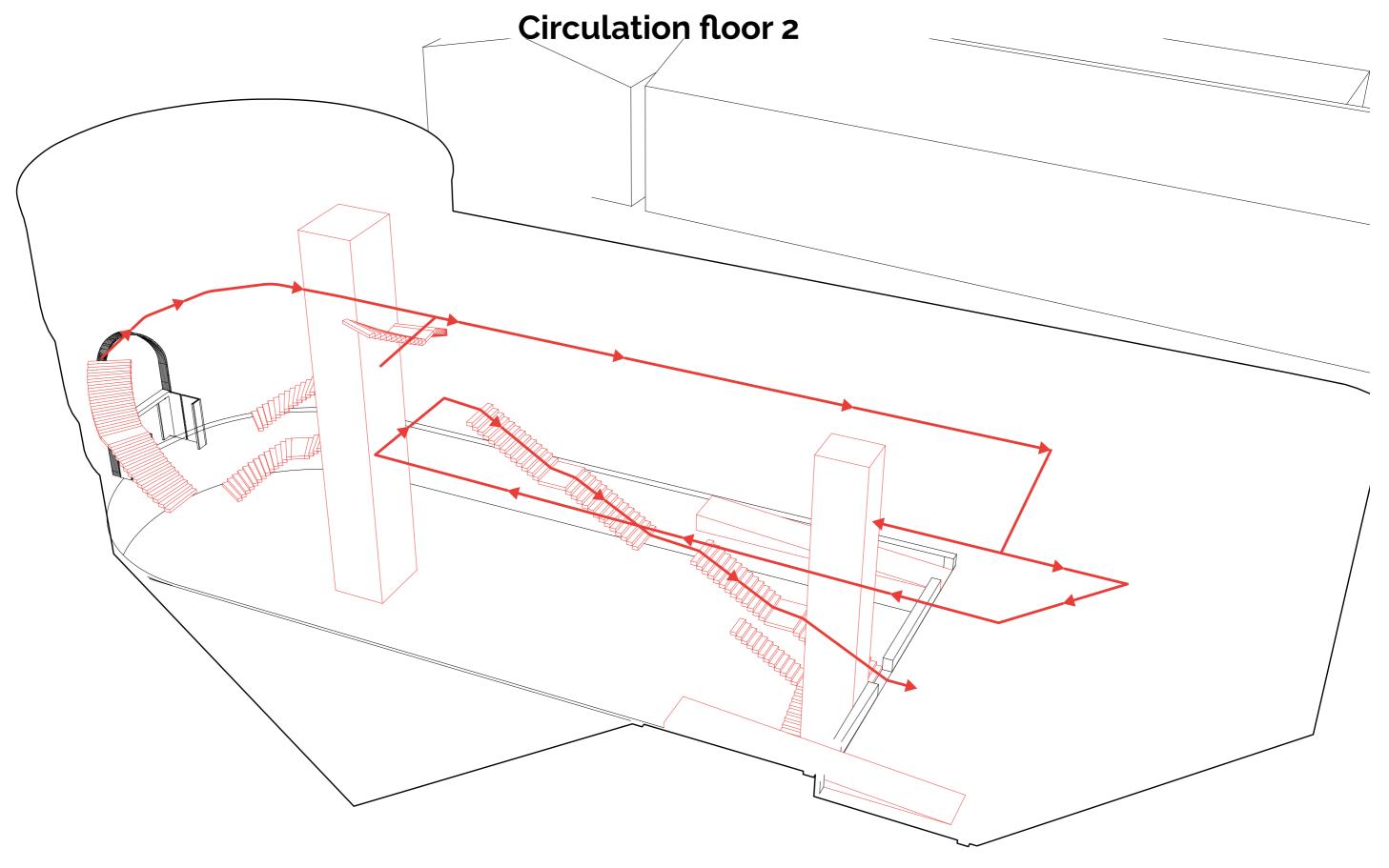




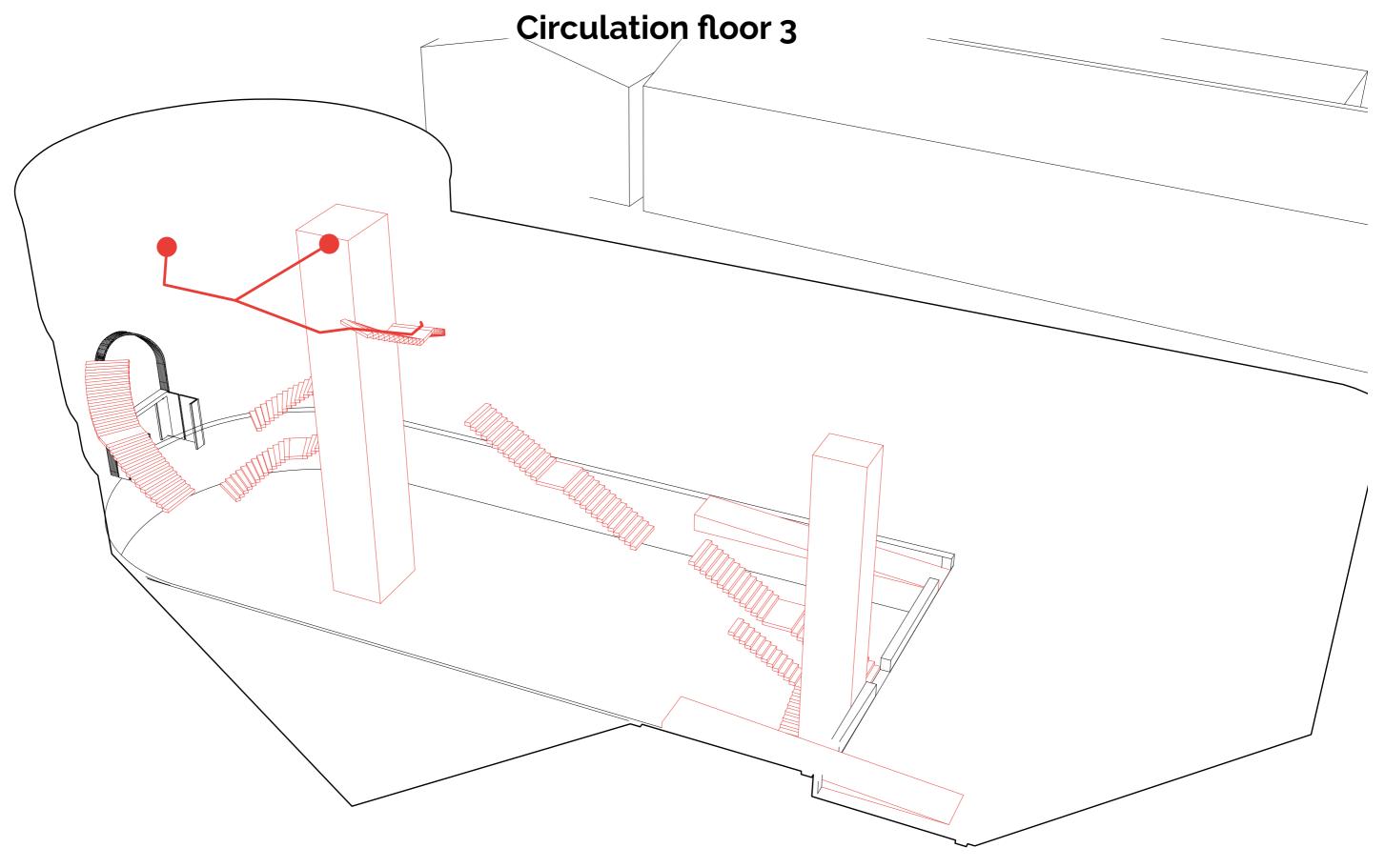






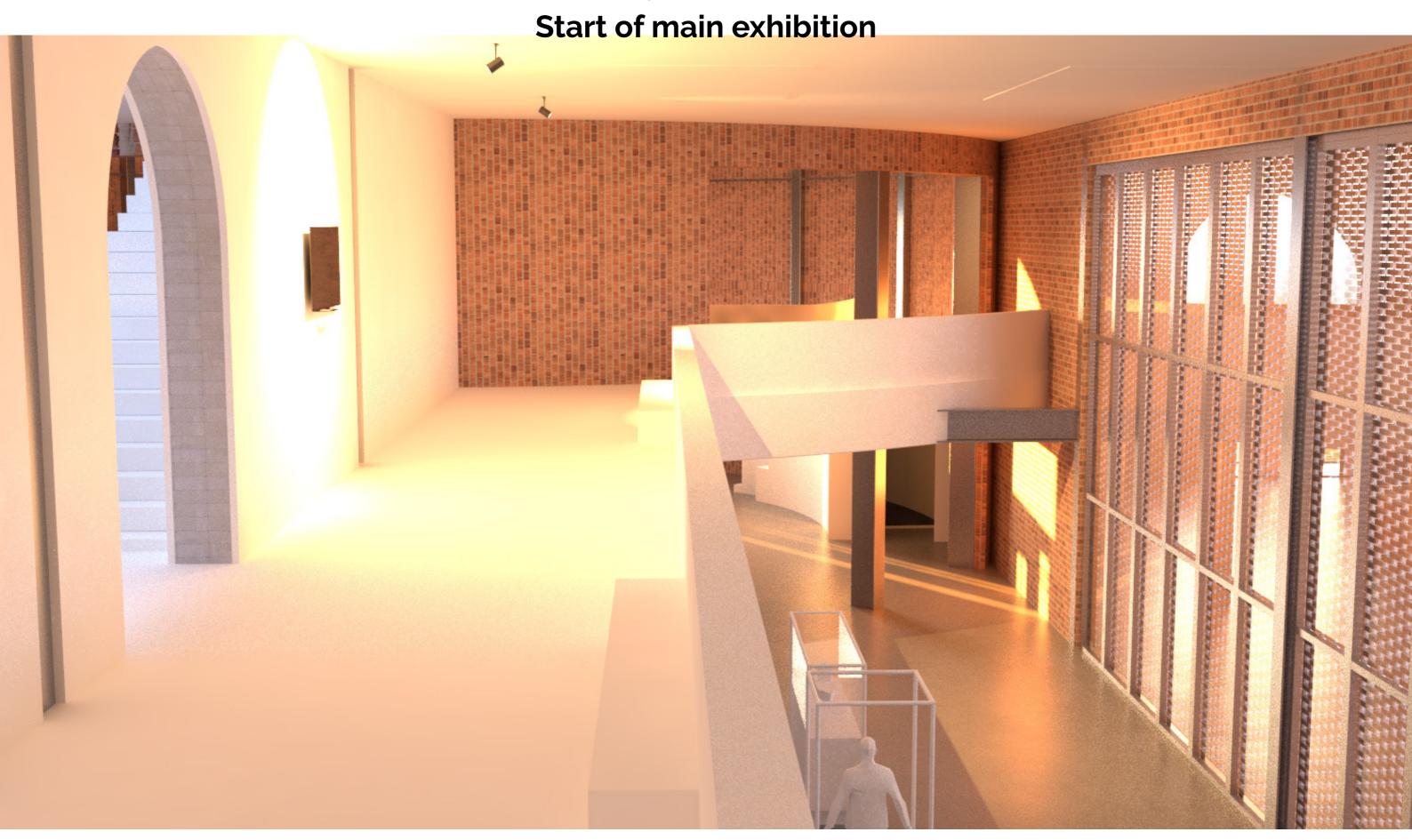


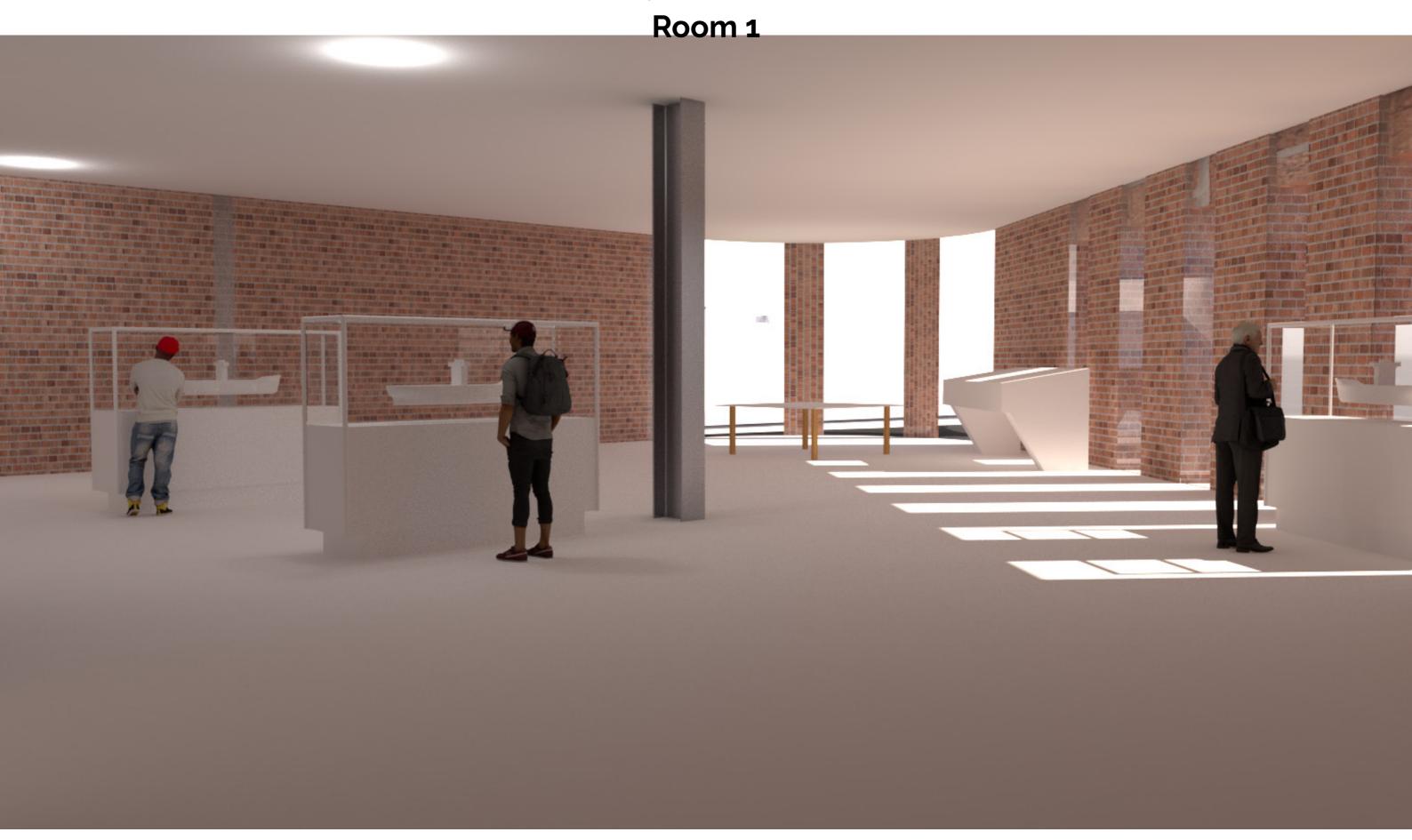


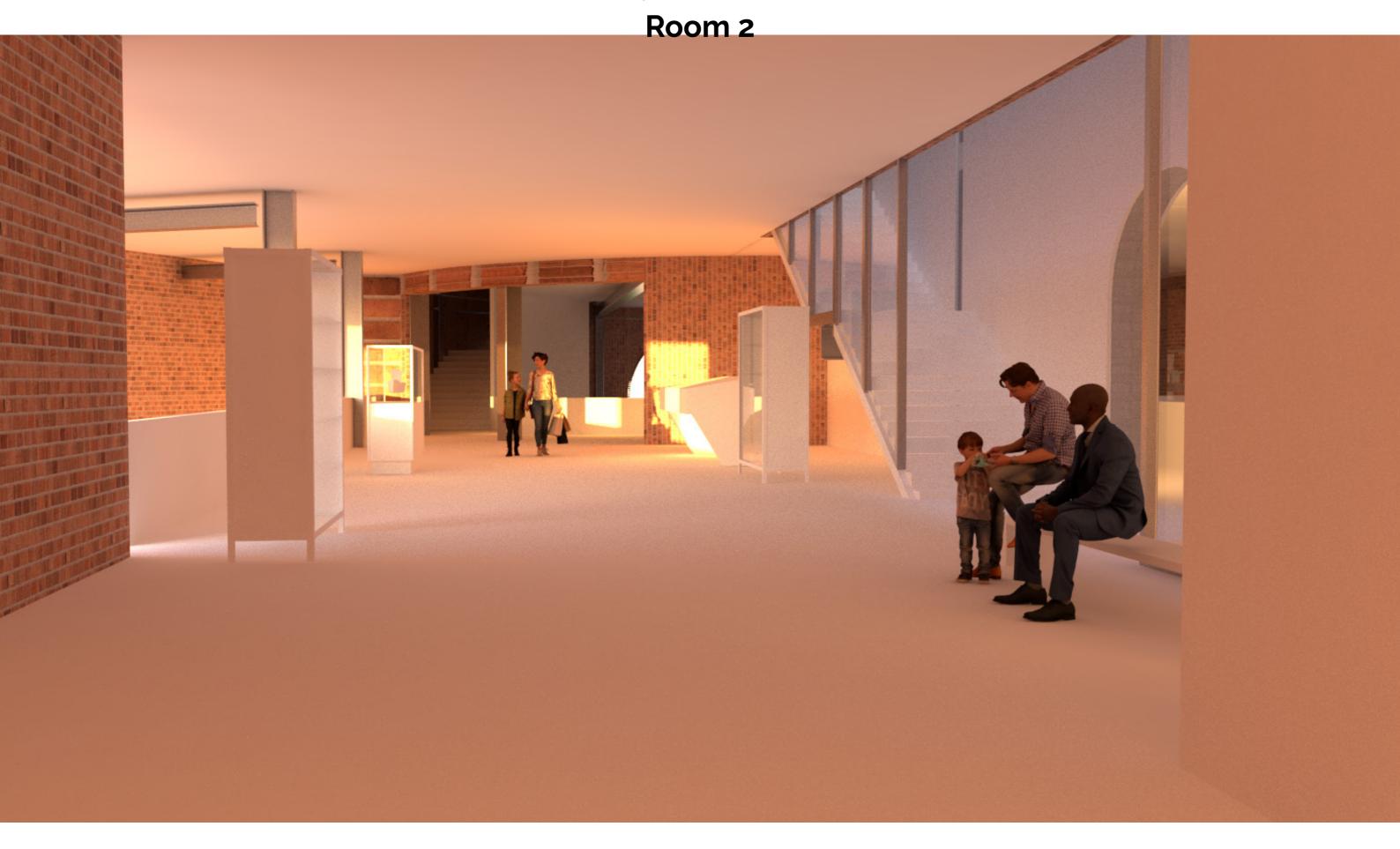


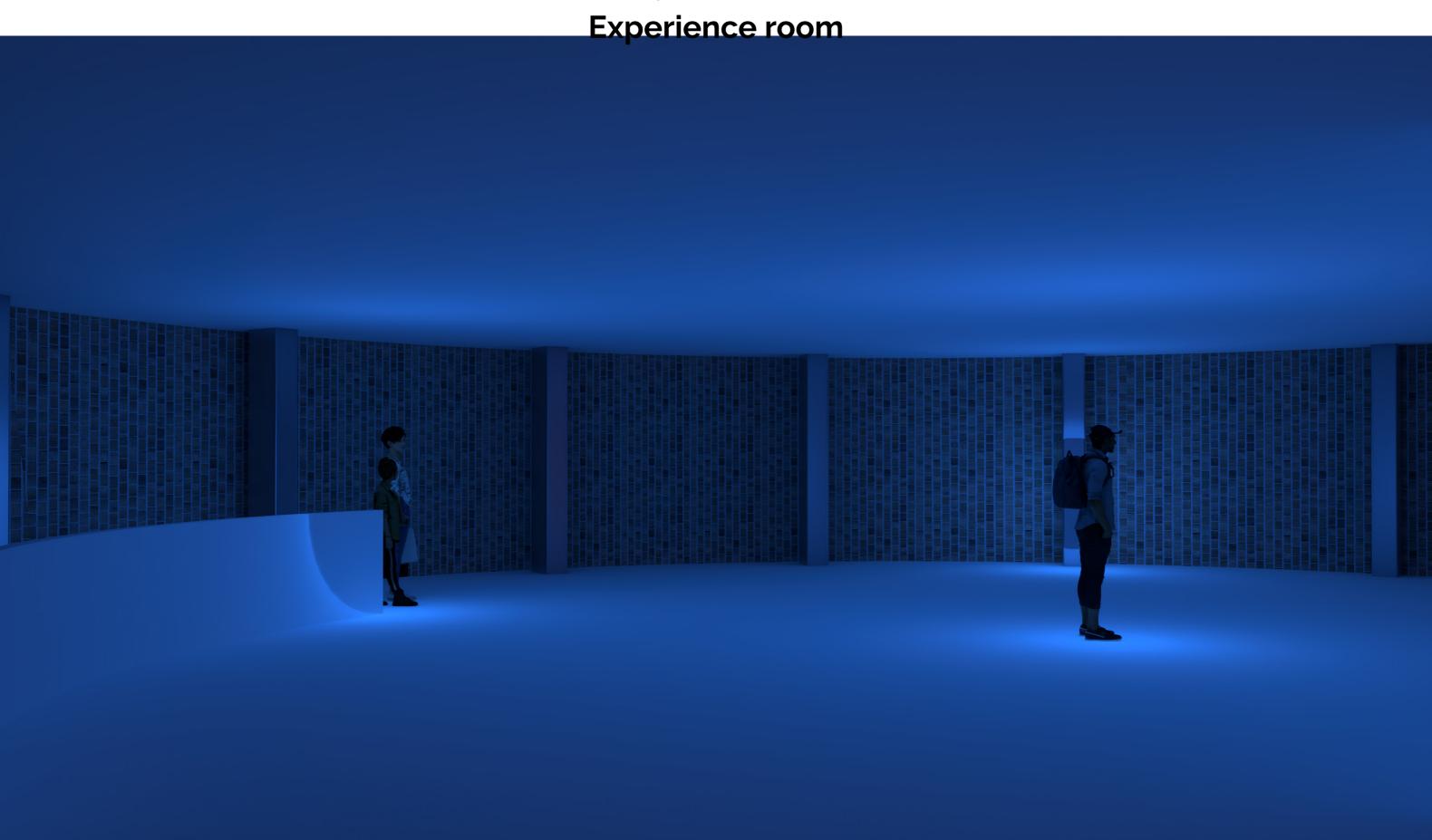






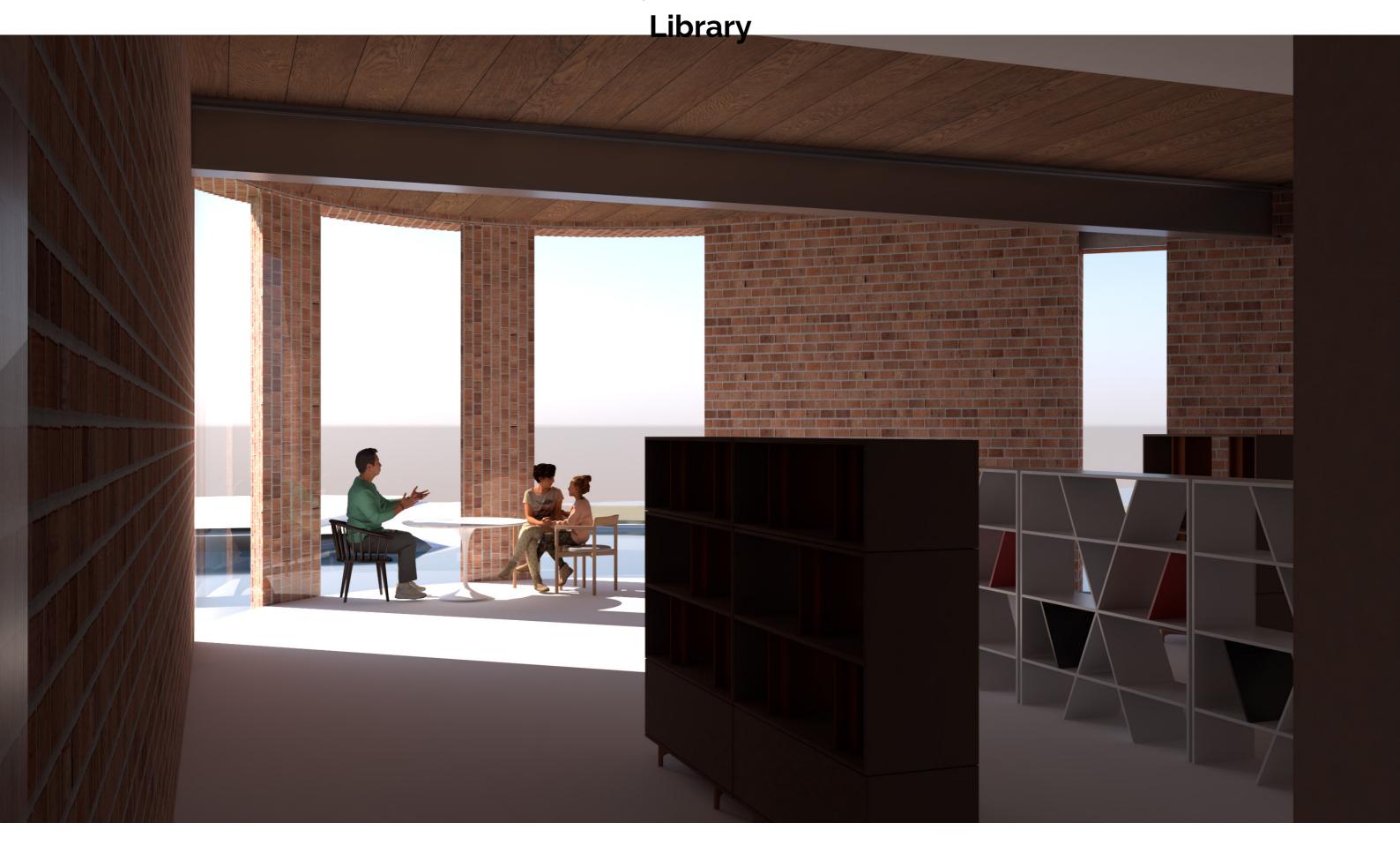






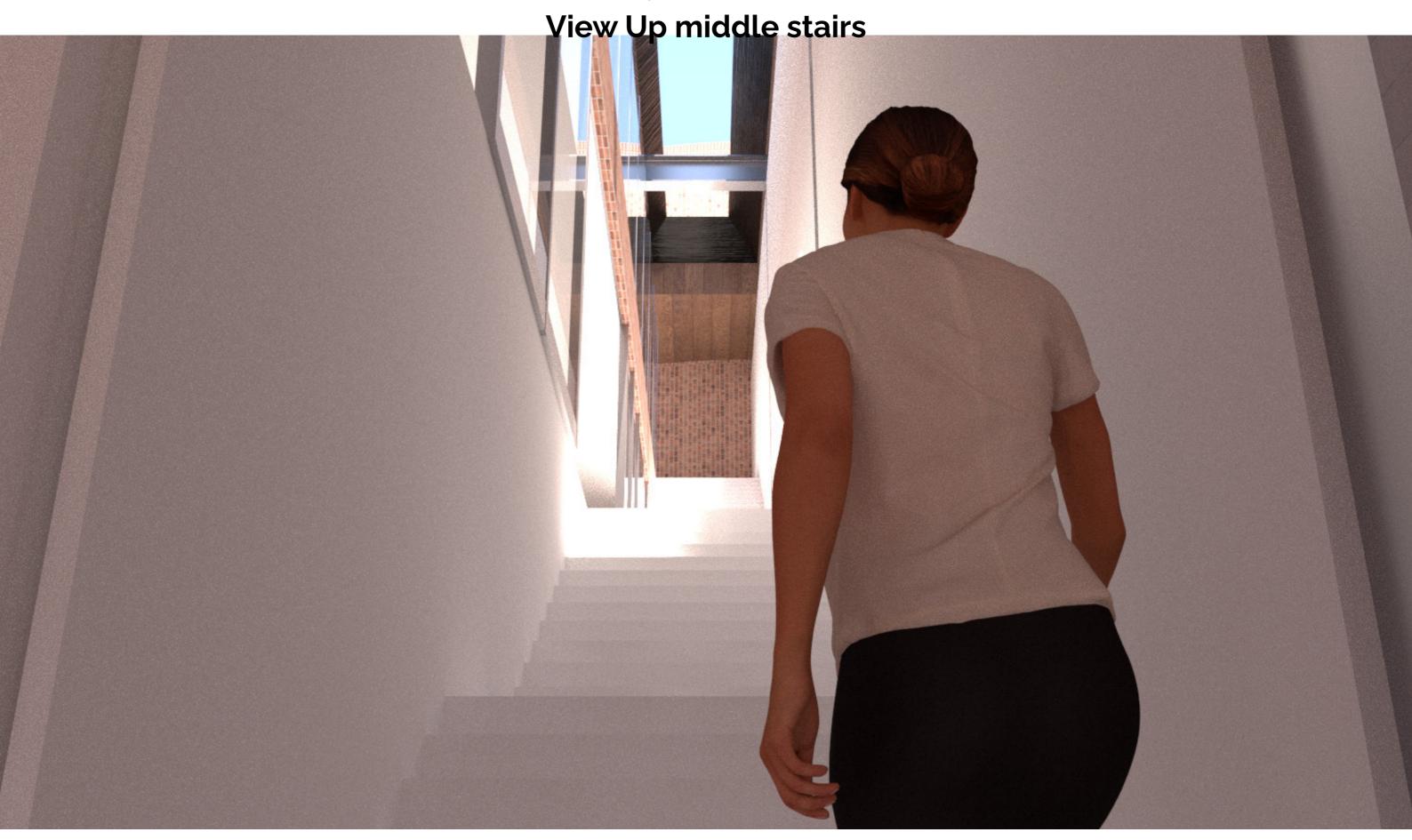
# Interactive equipment room



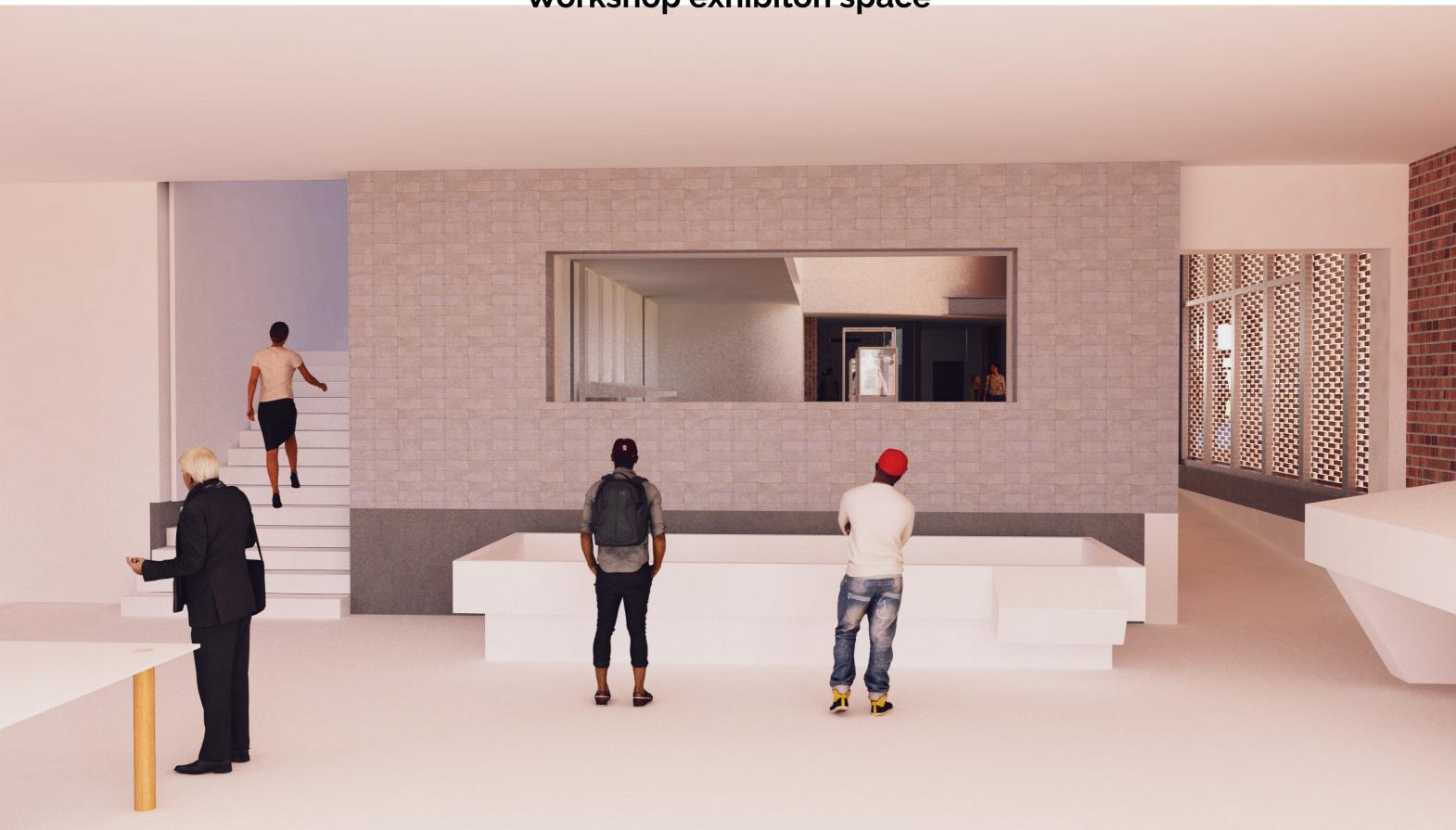




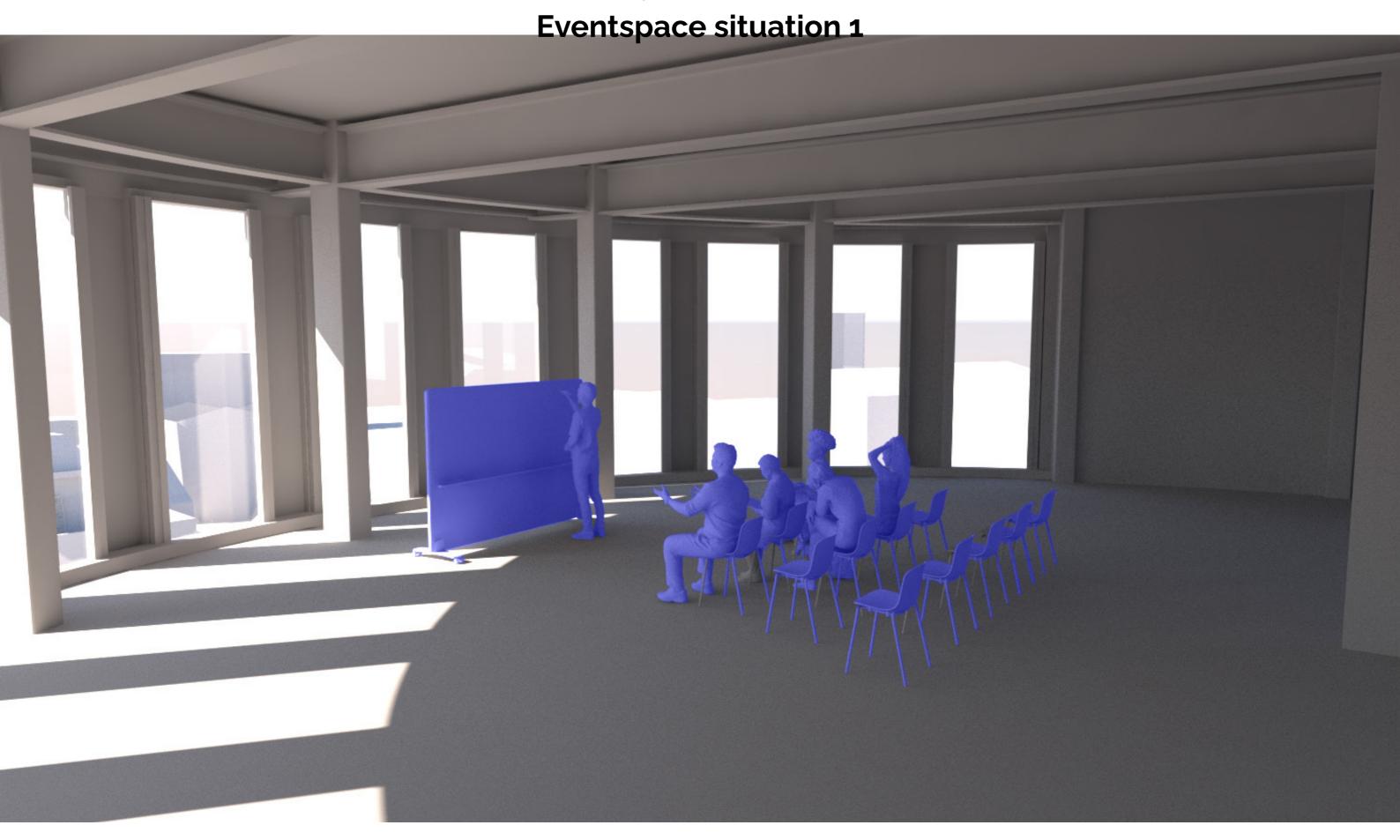


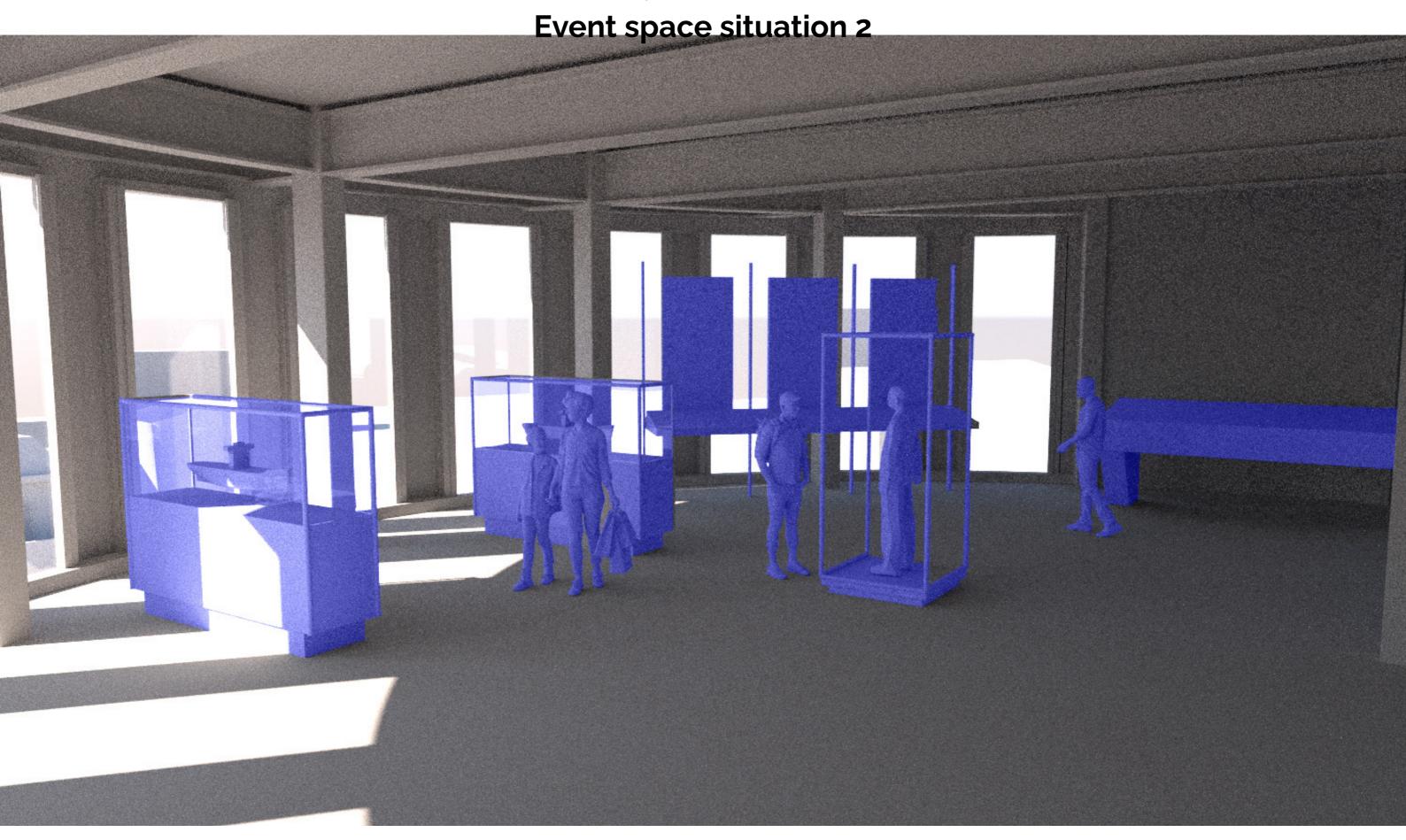


# Workshop exhibiton space







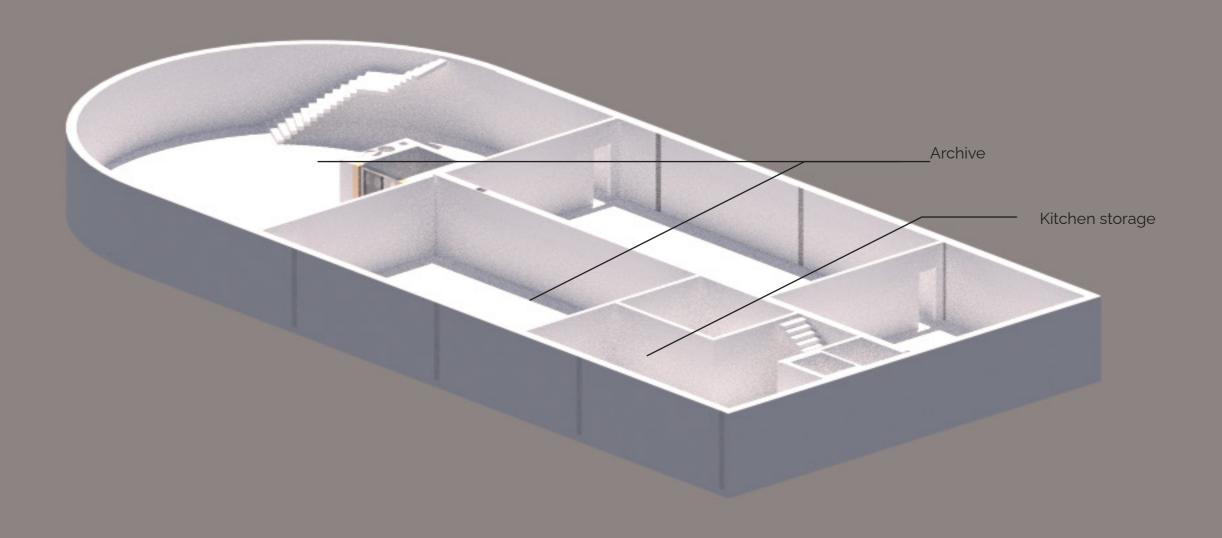




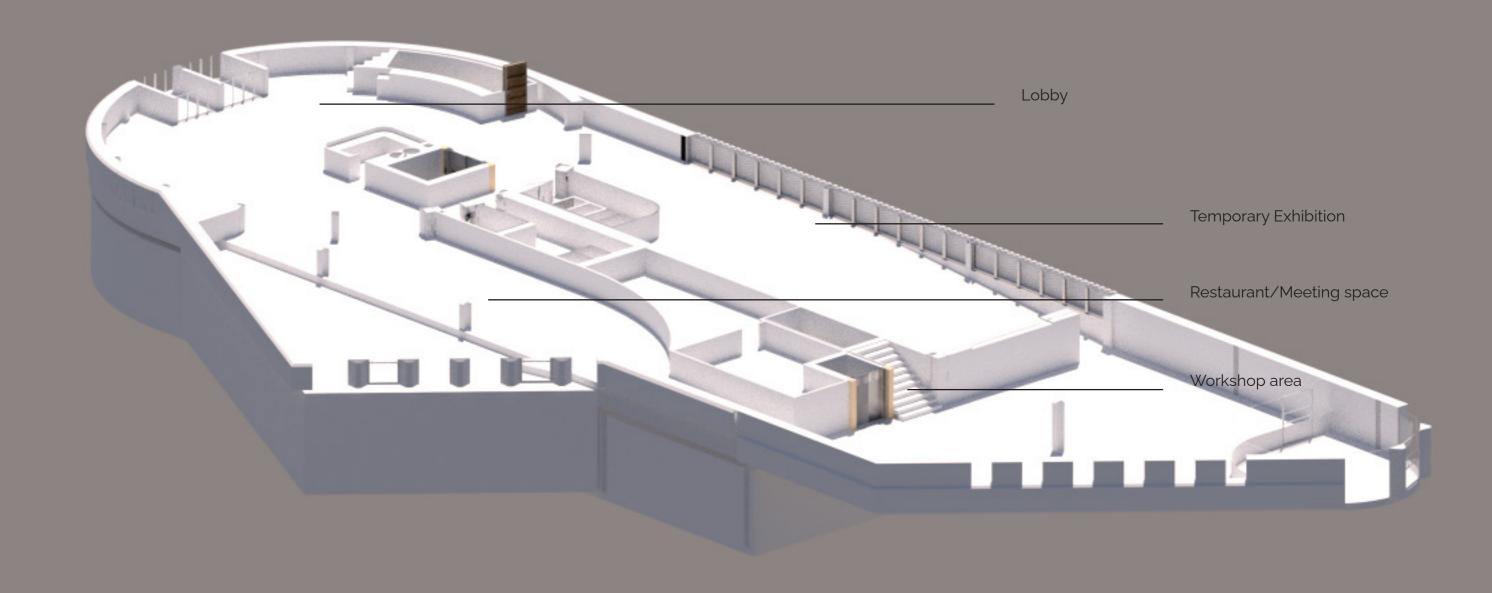




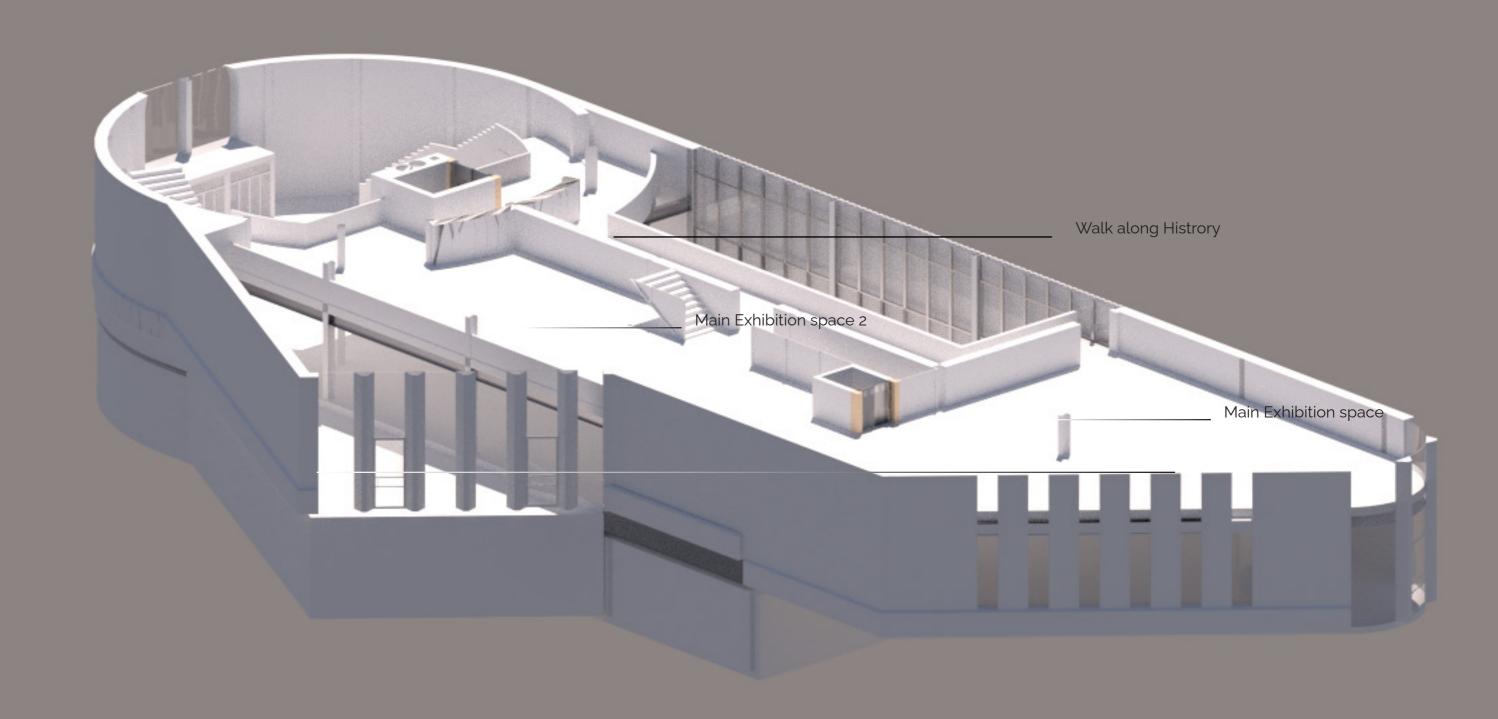
## Axo -1



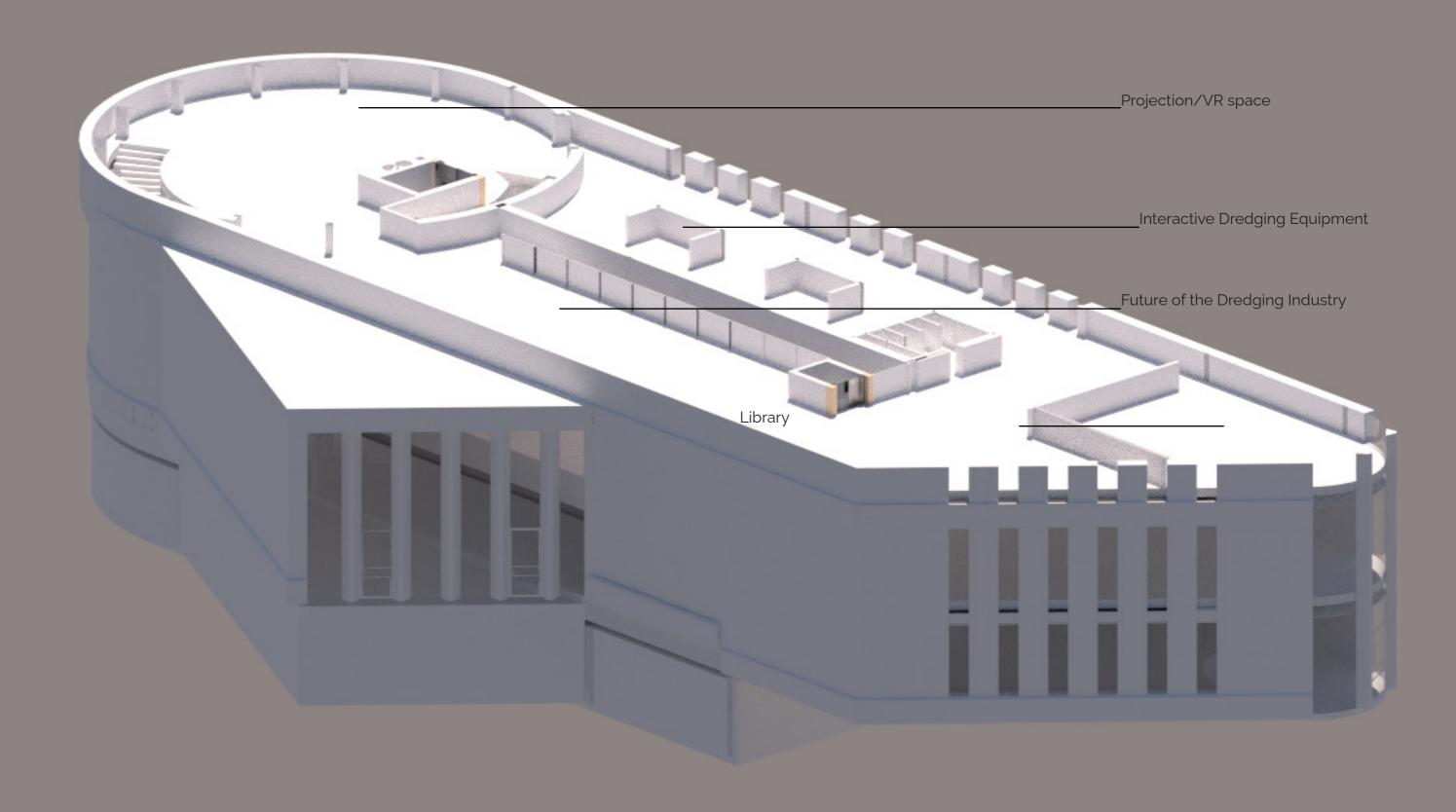
## Axo o



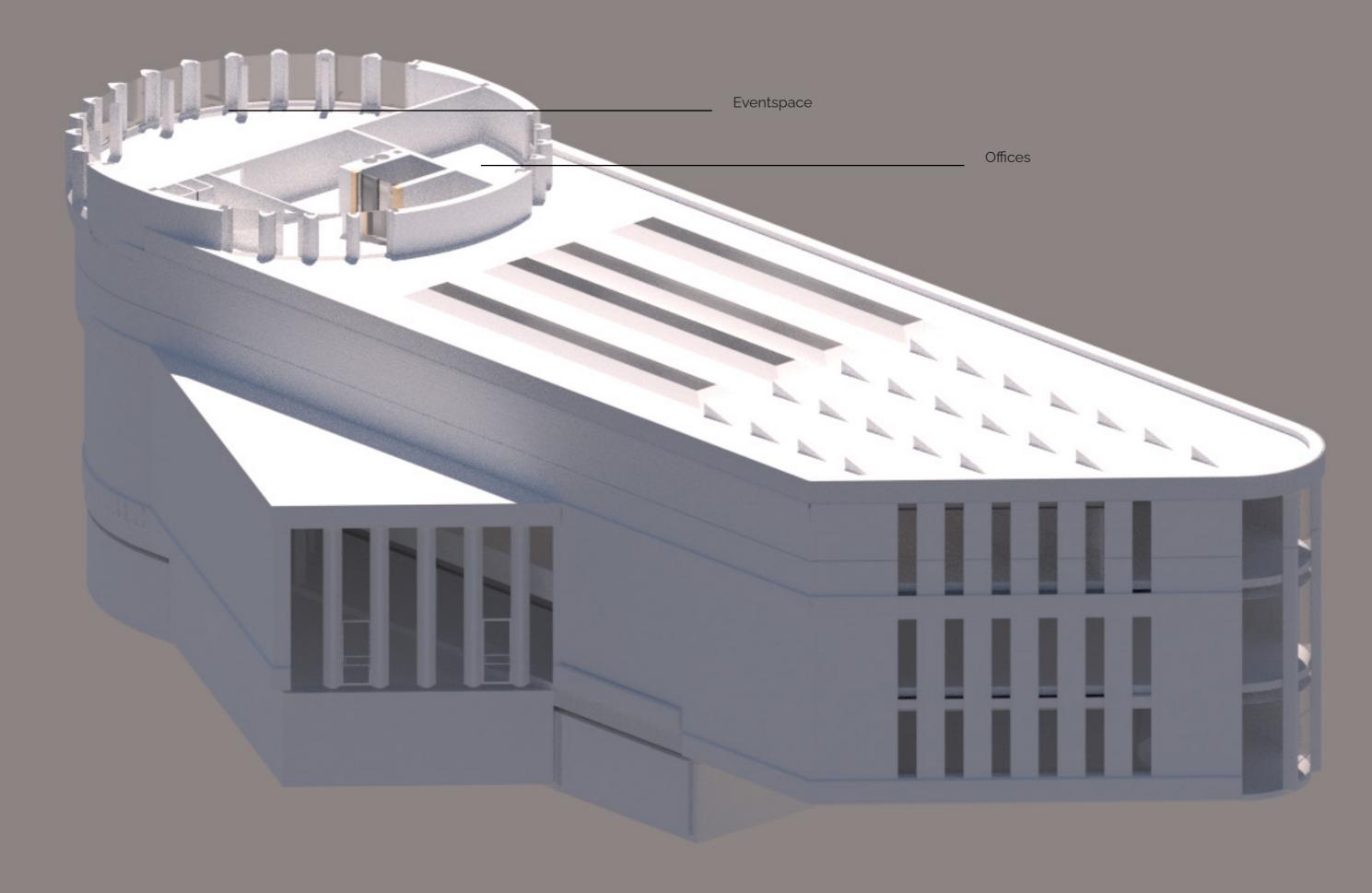
## Axo 1

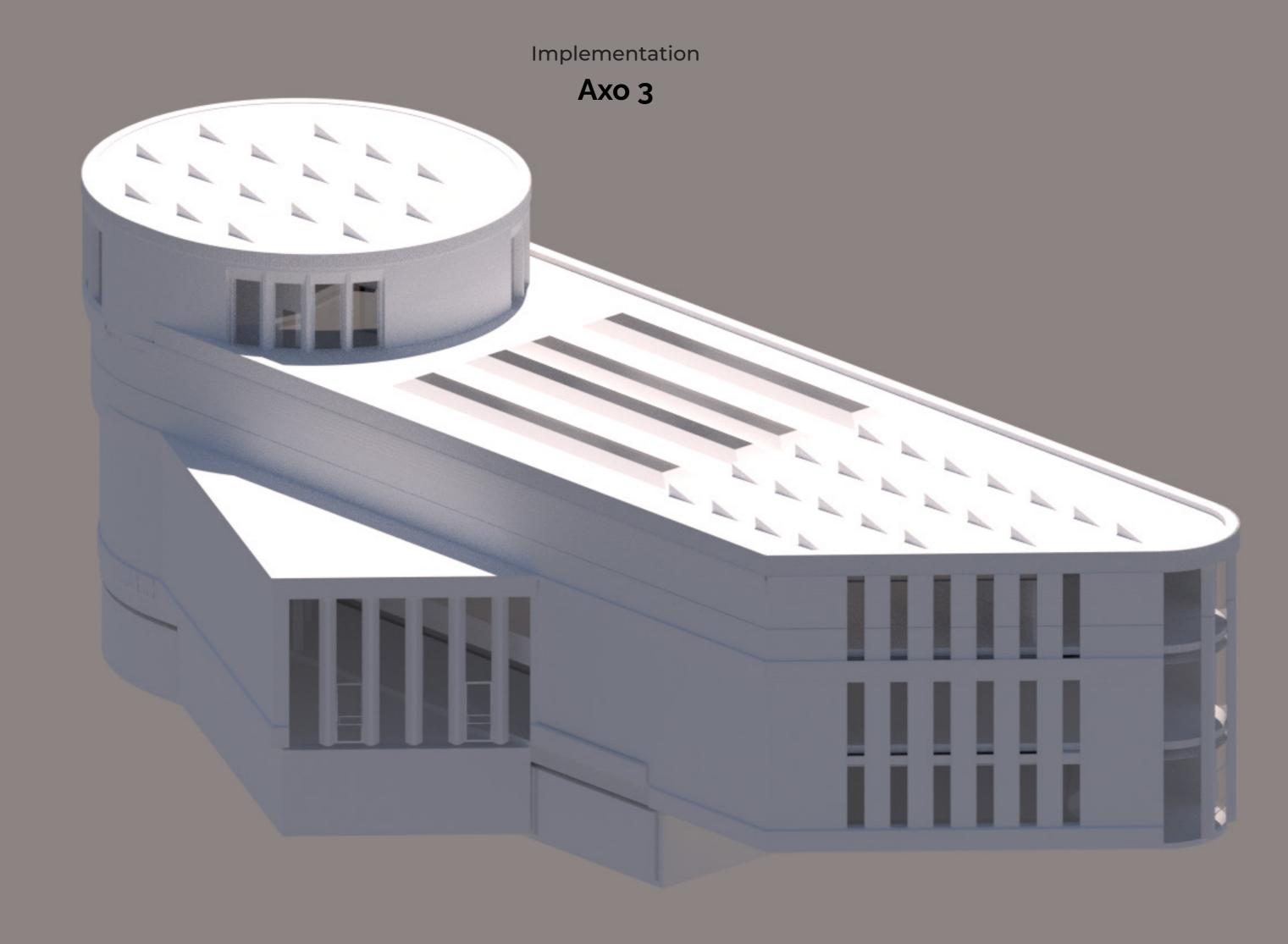


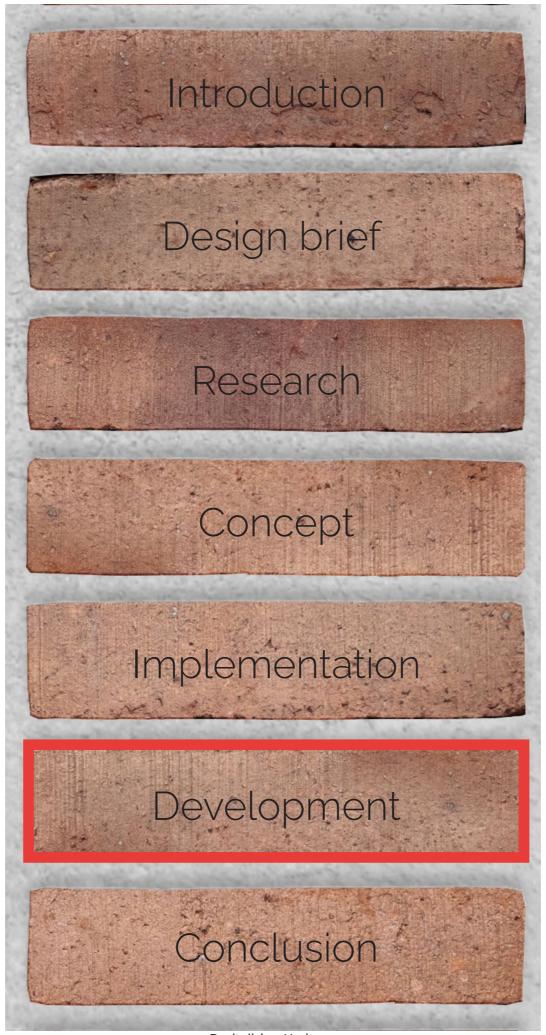
## Axo 2



## Axo 2

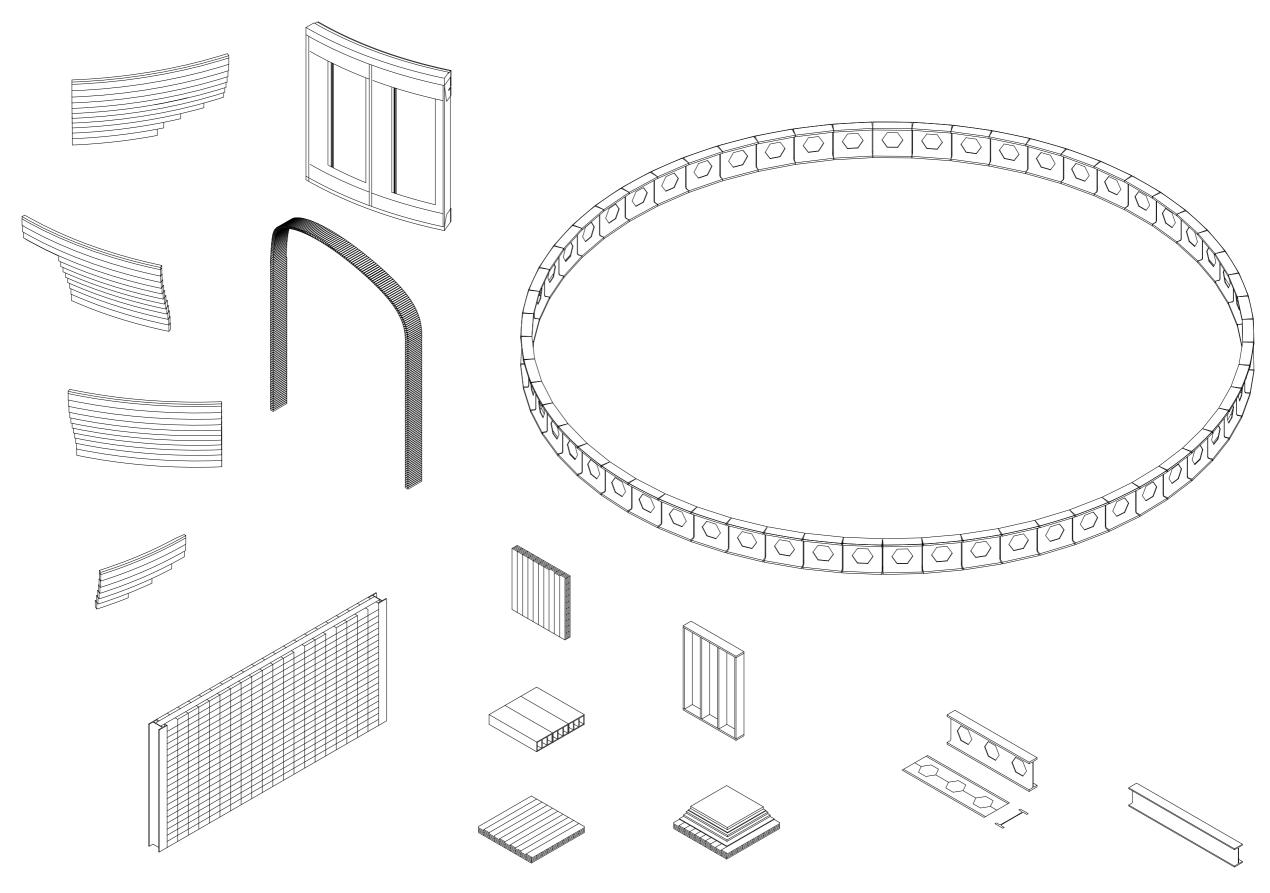






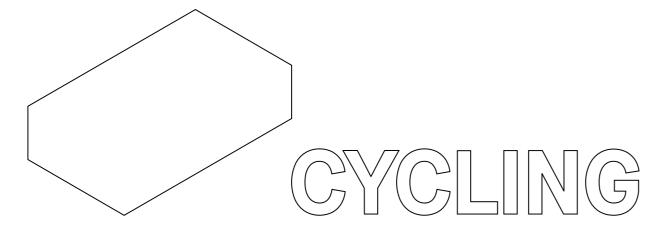
#### Development

## **Collection of Material**



#### Development

#### **Choice material**



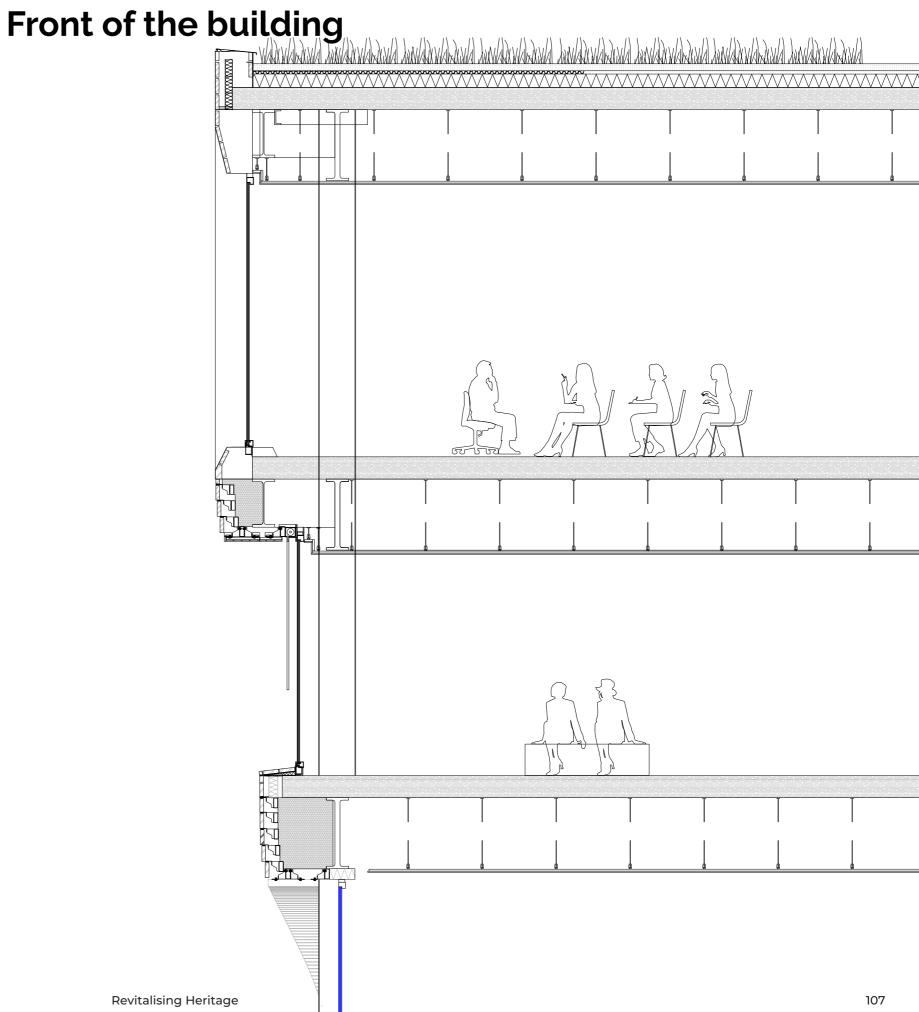
WasteBased-Bricks® 2G2W Waal formaat (210x100x50 mm)





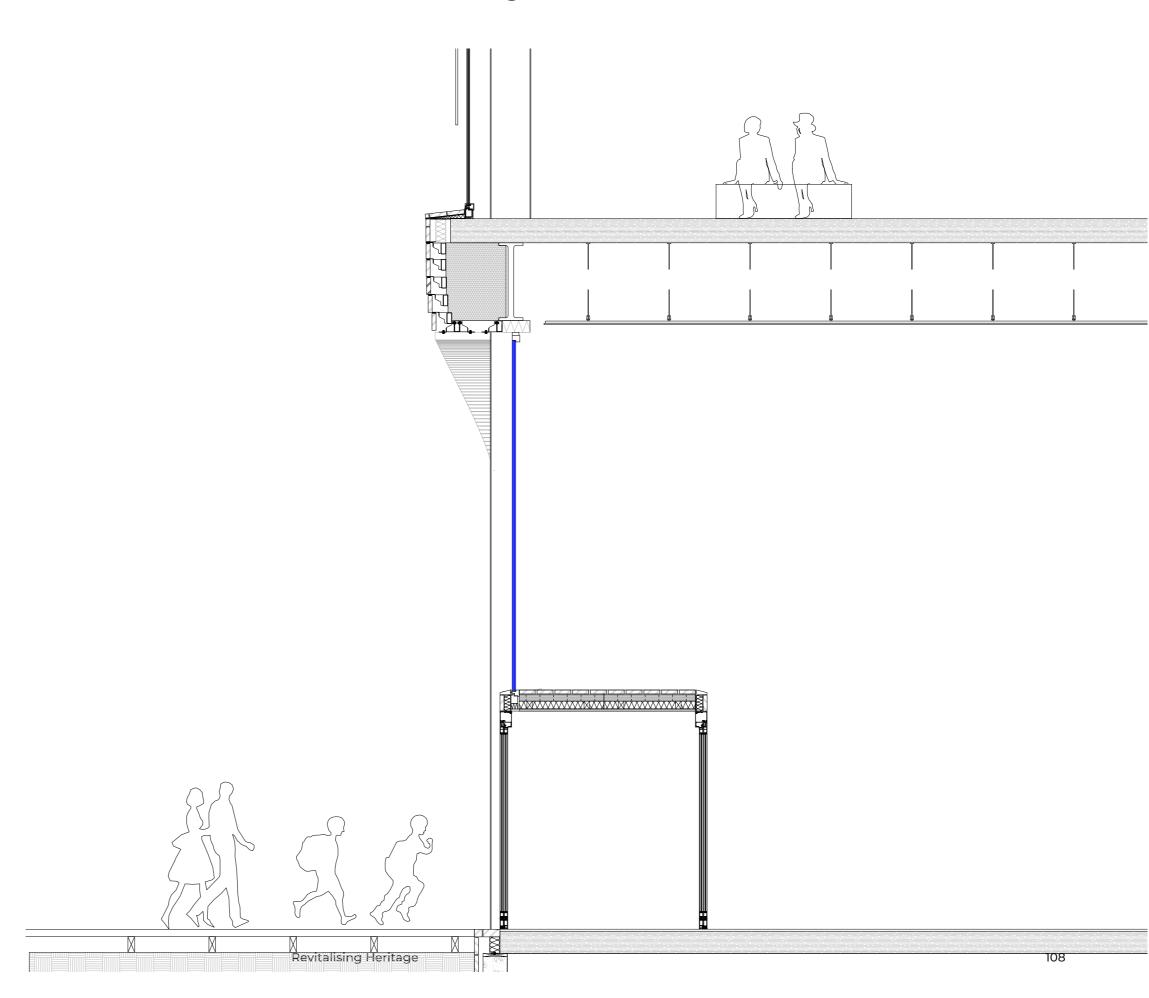




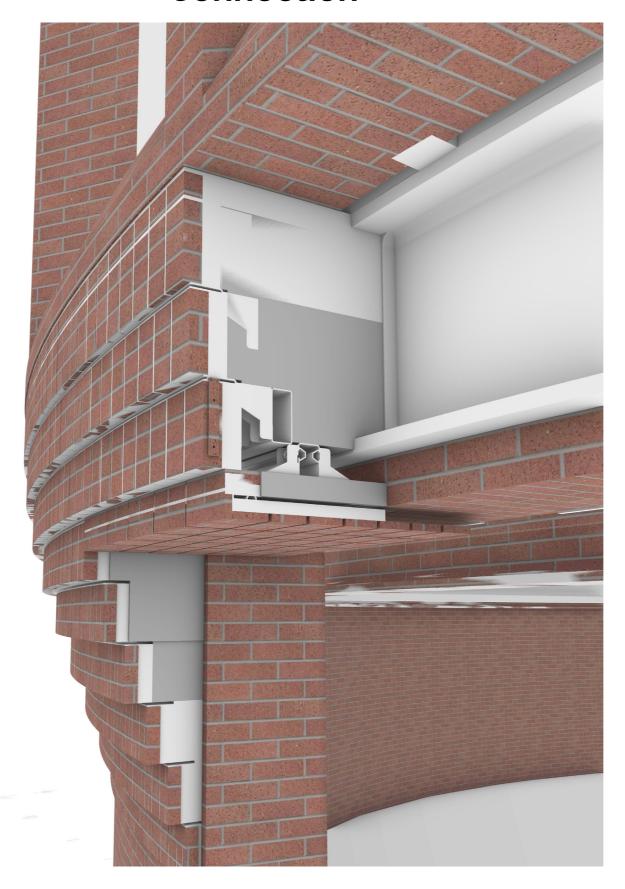


### Development

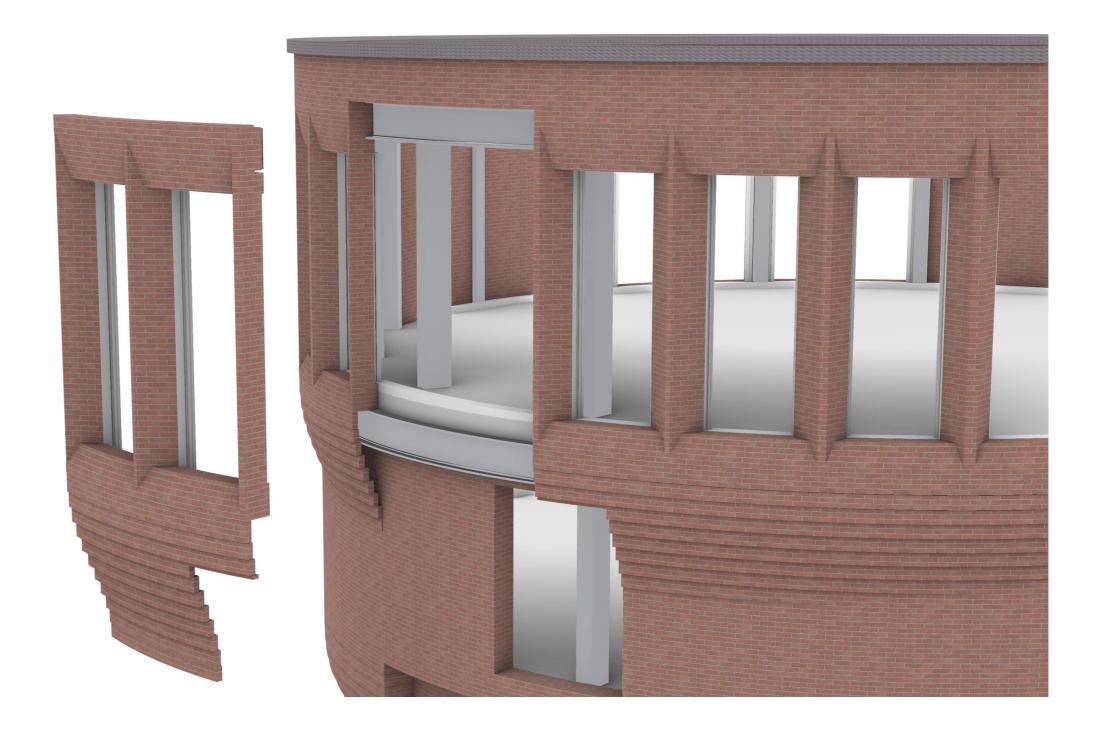
# Front of the building

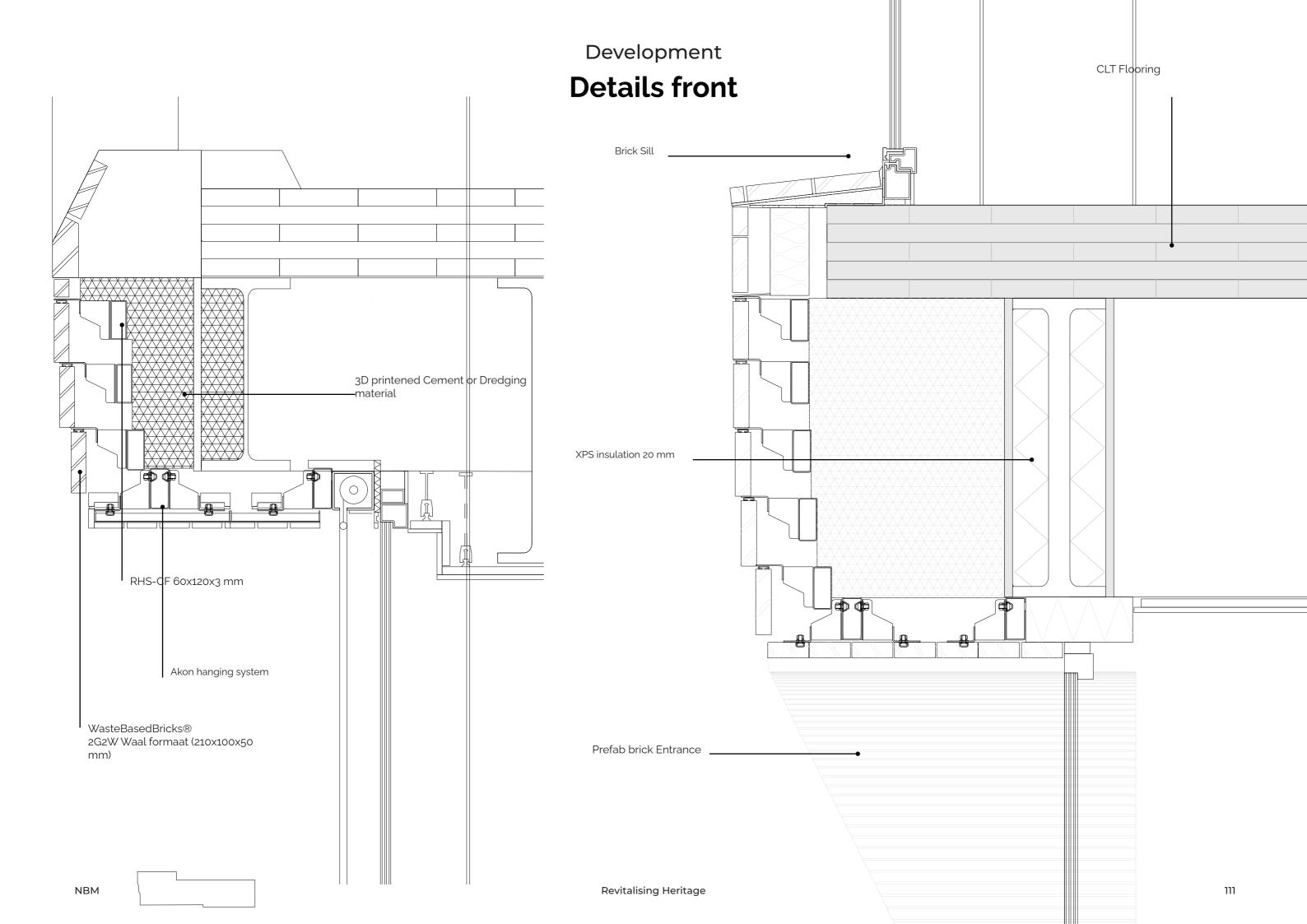


## Connection



## **Exploded view**

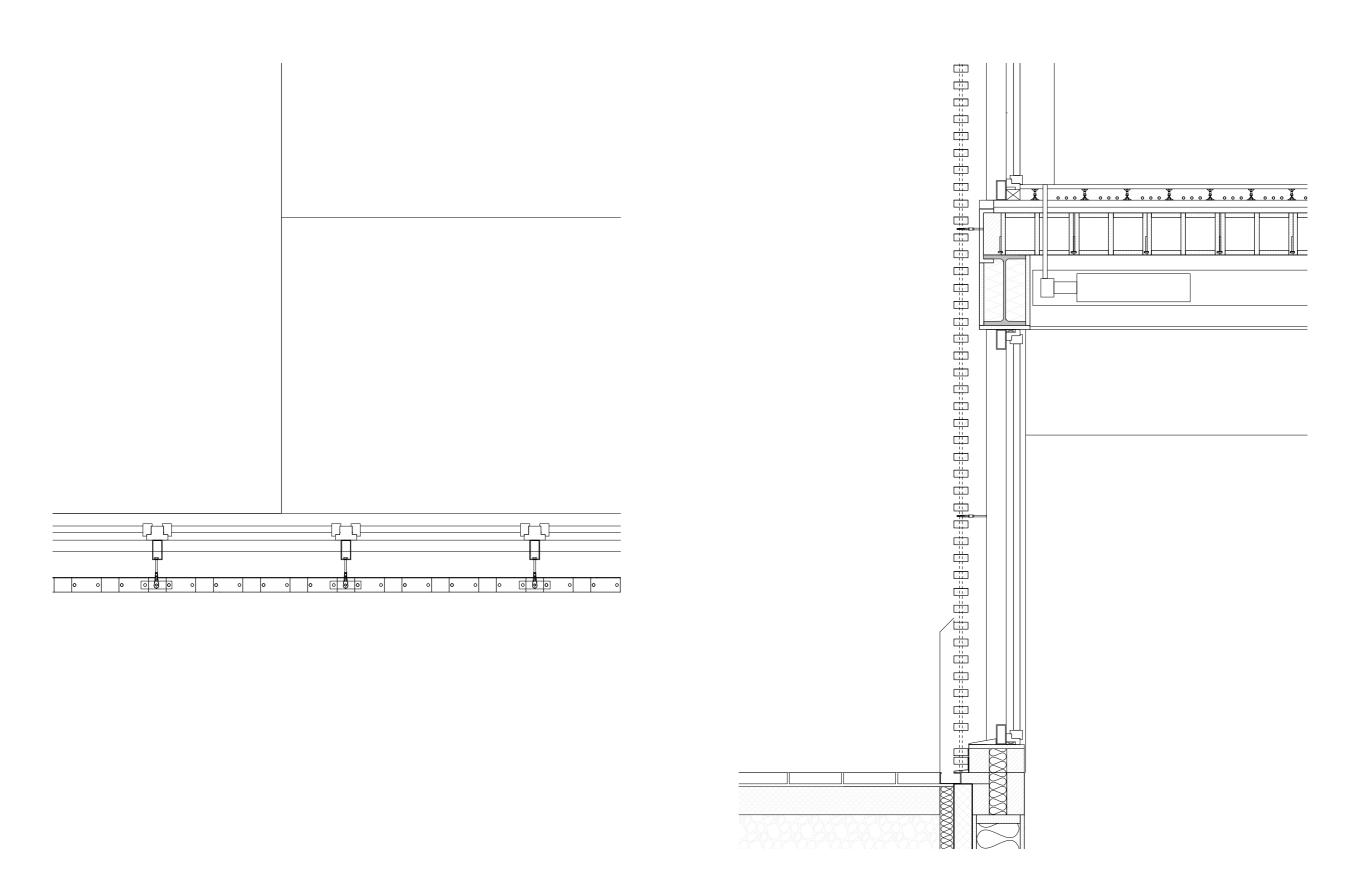


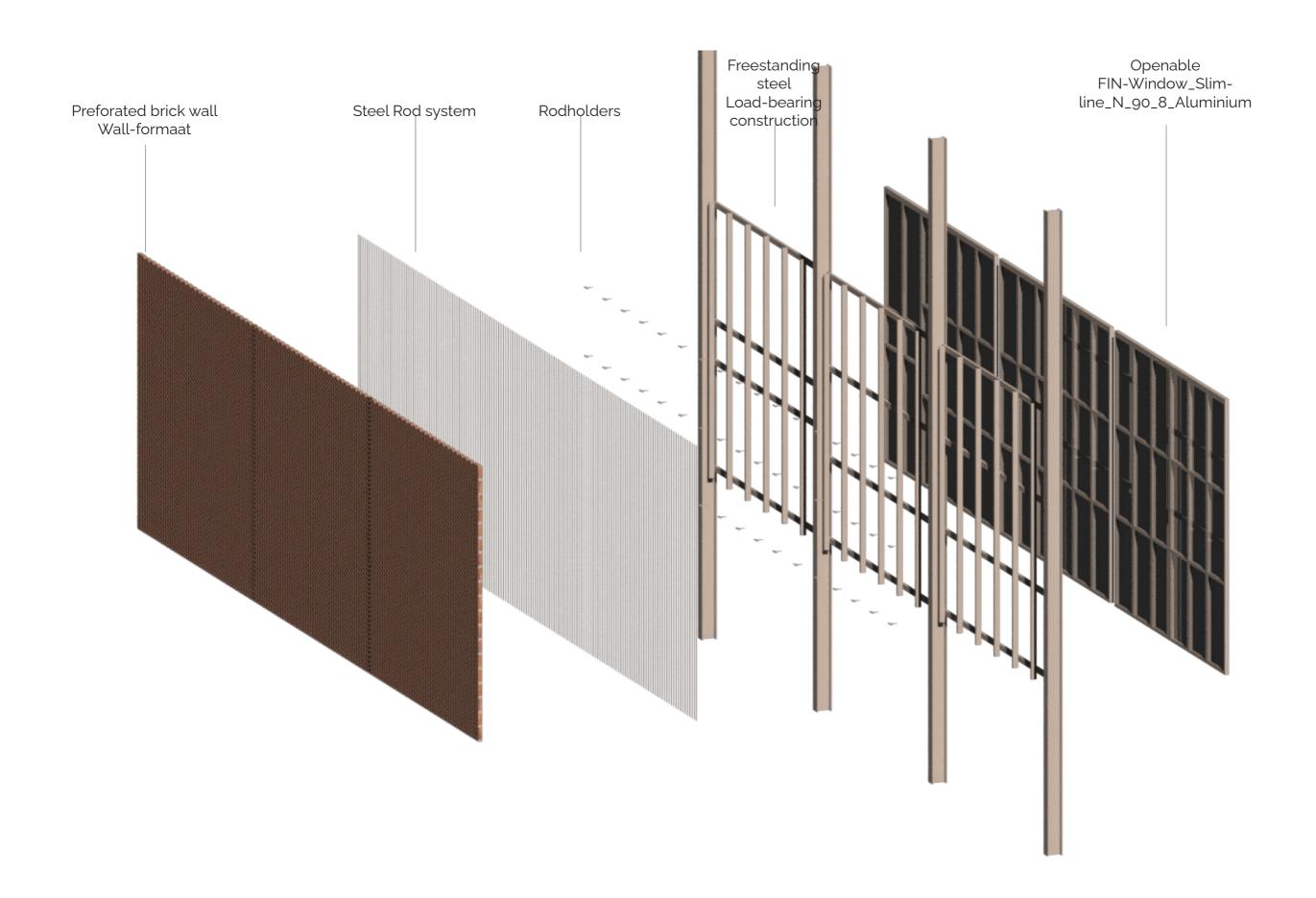


# **Brick patterns**

Kruis steen verband	Vlaams verband	Halfsteen verband	Noors ketting verband
Baggermuseum Molendijk 204	Reformed Church	Van Eijck shipyard	Archive Molendijk 208
Molendijk 181	Volker Residence Single		
Old Church	Expansion Dredging museum		

# Top section Preforated wall construction





## **Nature bricks**









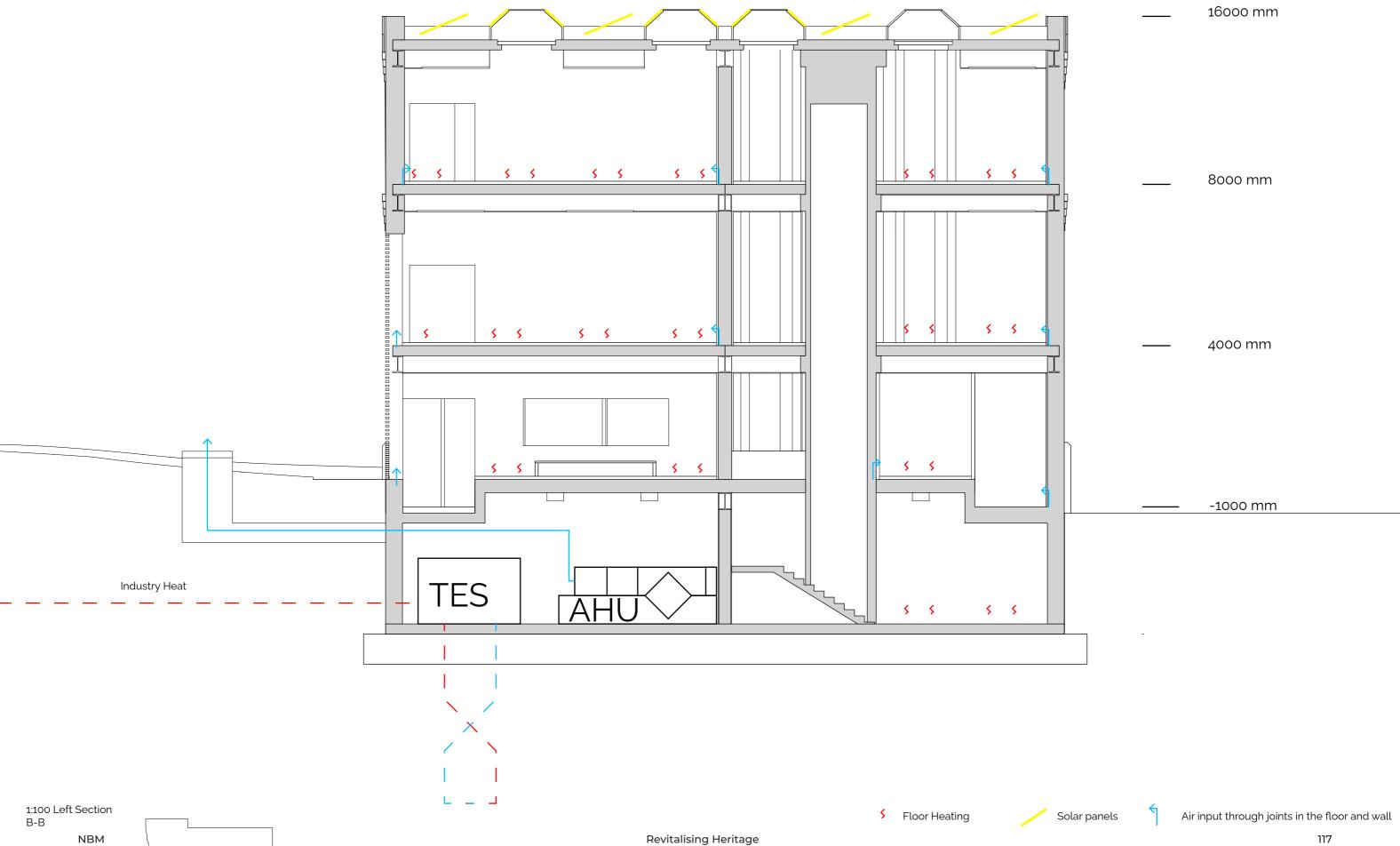
Batbox

Sparrow box

Starling box

Bee brick

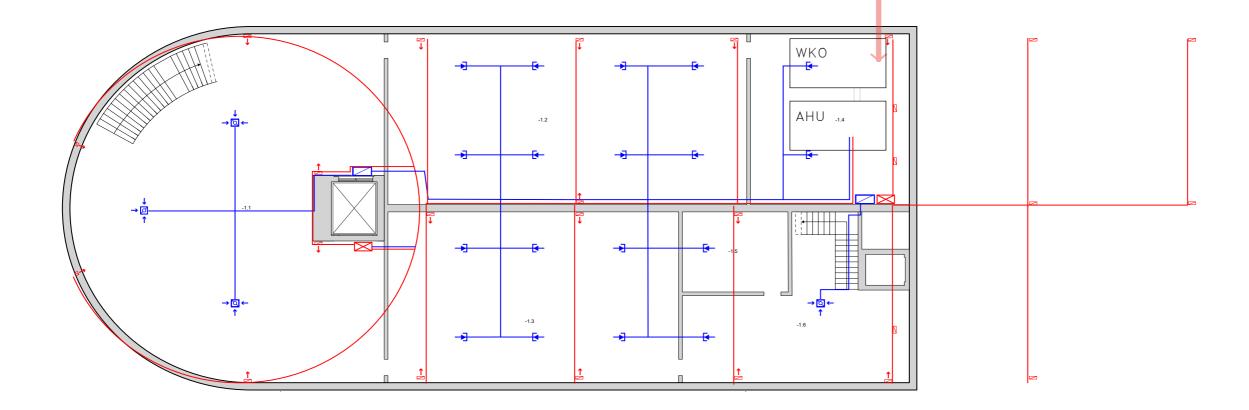
# **Climatise big rooms**



Revitalising Heritage

## Plans 1:200/1:100 Mechanical room

Industry heat

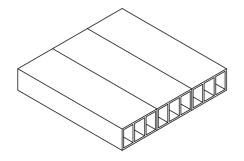




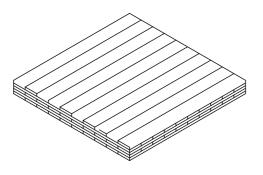
# Development Show axo 3d climate SA DEFENDENCE OF THE PROPERTY OF THE PROPERTY

NBM

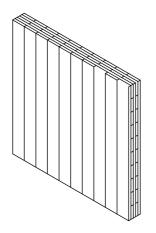
# **Elements of Load bearing construction**



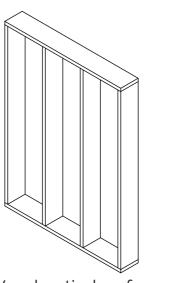
Lignatur Floor Height: 320 mm span: 8400 mm



CLT Slap Height: 300 mm span: 3600 mm

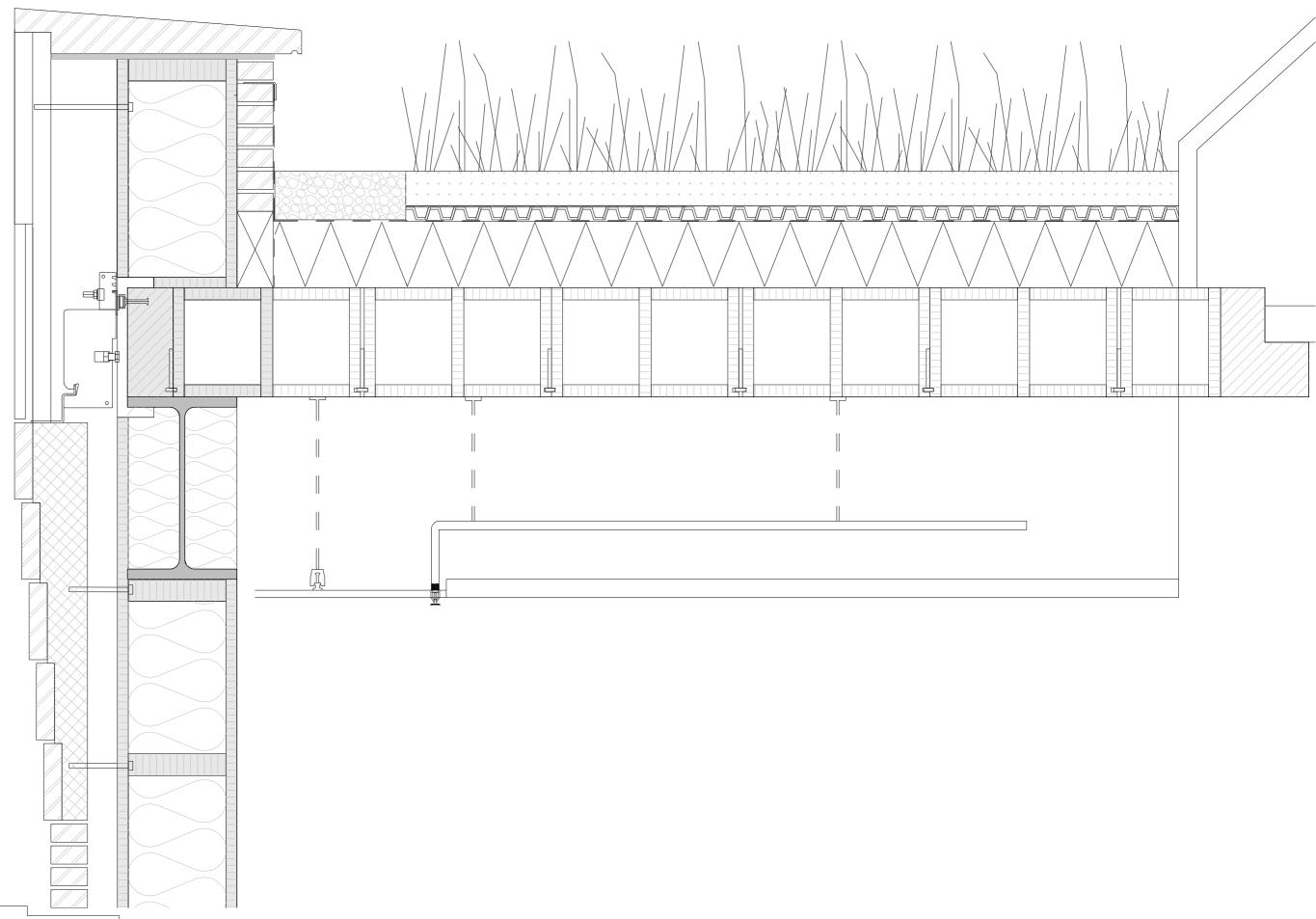


CLT Panel 8400 mm

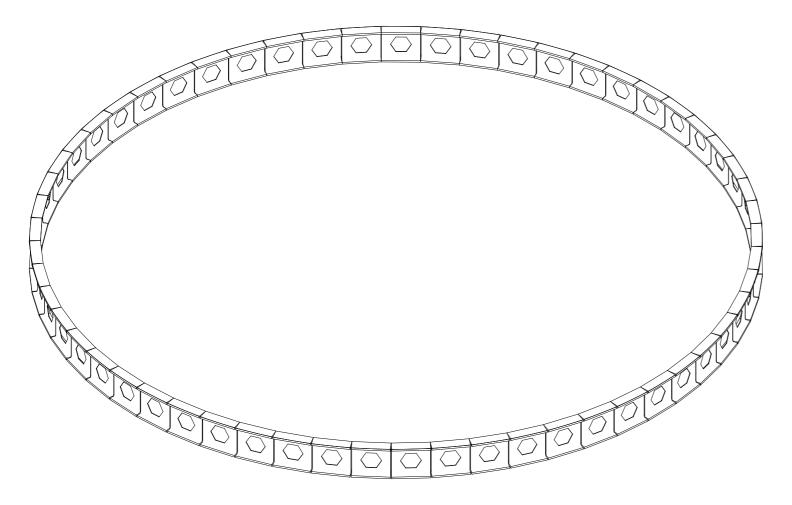


Wooden timber frame Curved Disks External wall 500 mm

## **Details**



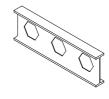
# **Elements of Load bearing construction**



Curved

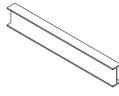
Castellated beam

Height: 960 mm



Castellated beam

Height: 960 mm



IPE profile:

600

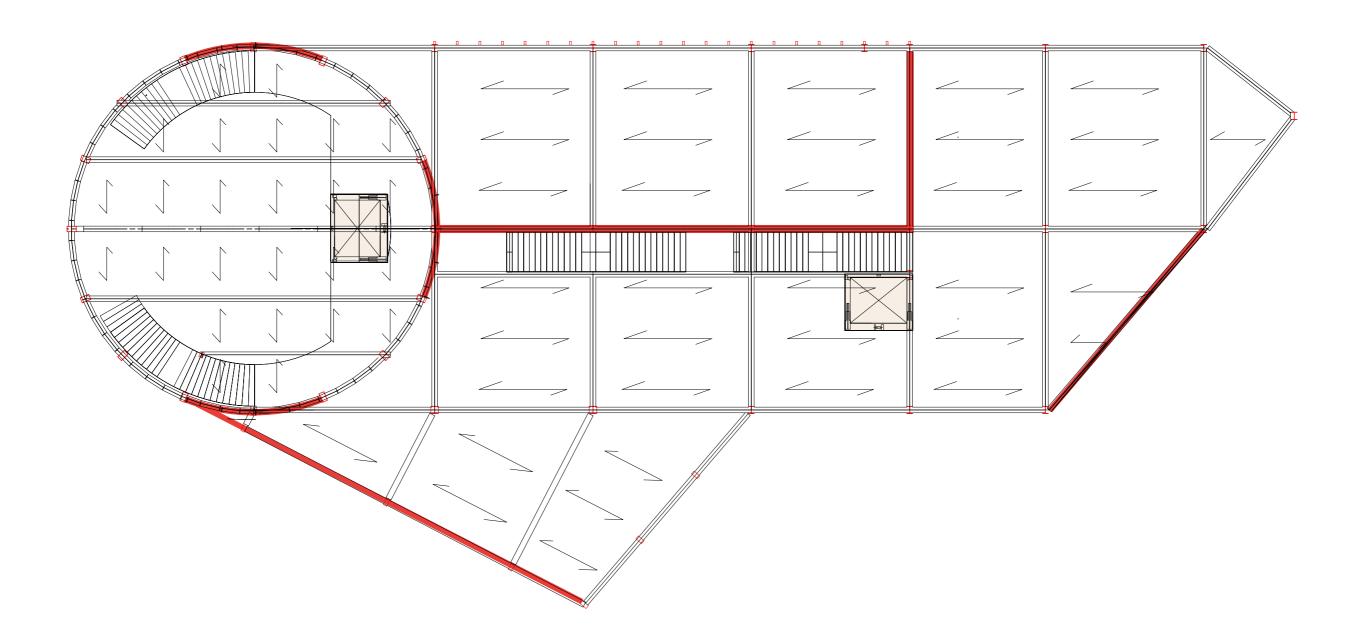
420



IPE profile Collumn:

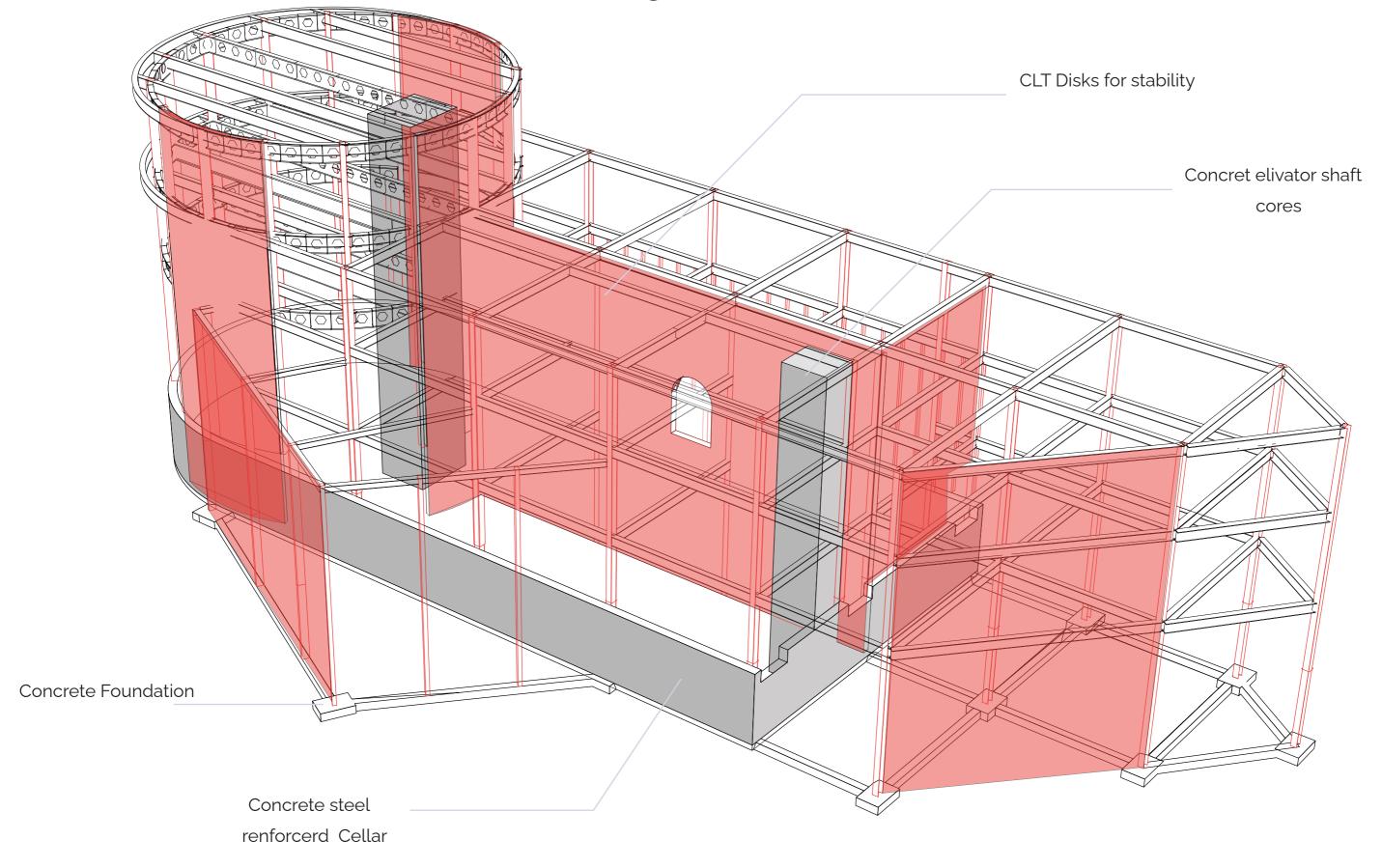
400

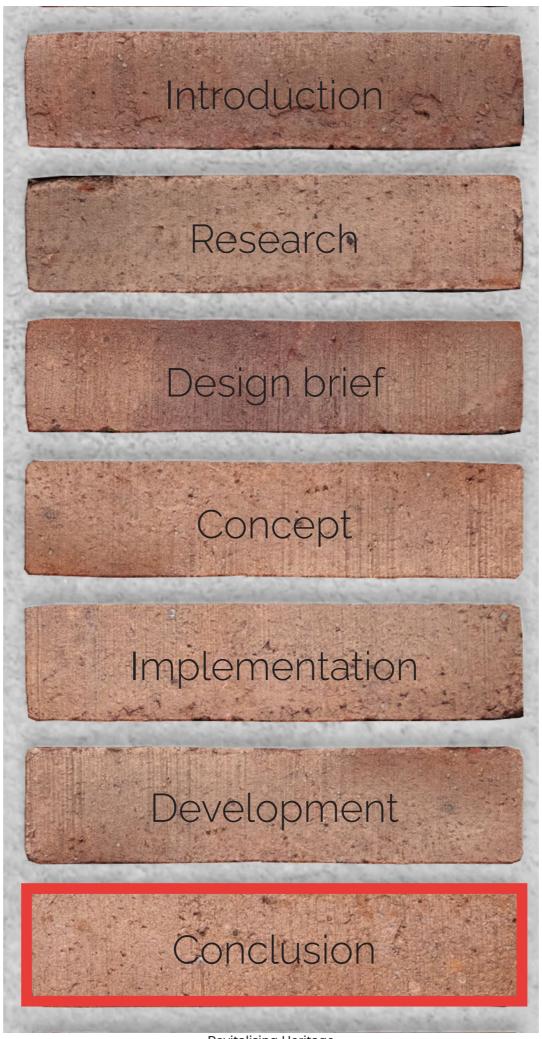
# LB plan Floor 1



1:200 Grid structure of 1200 mm

# **Building construction axo**





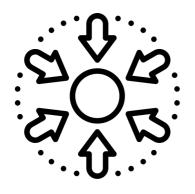
#### Conclusion

## **Overview themes**

Design brief

Research

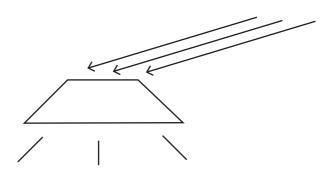
Centrality



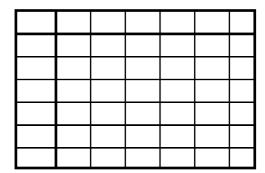
Client

Nationaal Bagger museum Design driver

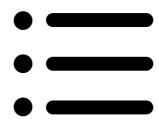
Light



Value assement



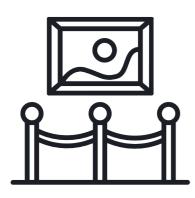
**Program** 



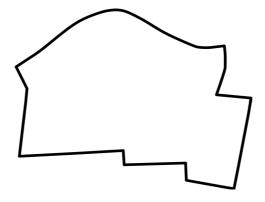
**Authenticity** 



Musea experience



Site



#### Conclusion

## Goal

- + Monumental Building
- + Integrated in surrounding
- + Mirroring compositional elements
  - + Add new functionality
  - + Create a new centrality

