Adapting 20th century heritage
AR3AH105
Graduation

TU Delft
Departement of Architecture
2024 - 2025

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Layers of Belonging.

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De Ruimte (De Potter, 2024)

Table of contents.

01. Introduction.

02. Research.

03. Design.

04. Reflection.



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Buiksloterham in Amsterdam-Noord (De Potter, 2024)



Demolished industrial building in Buiksloterham (De Potter, 2024)



“Verdedig Noord“ protest (De Wildt, 2020)













Civic centers in Amsterdam-Noord (De Potter, 2024)

“De Ruimte“



“De Ruimte“ (De Potter, 2024)

“De Vliegtuin“



“De Ruimte“ (De Potter, 2024)

Goal.

Redesign a **civic center** in Amsterdam-Noord to reflect **civic ambition**, **historical layering** ,and **community expression** to **unite** past, present and future society.

Guiding themes.

Redesign a **civic center** in Amsterdam-Noord to reflect **civic ambition**, **historical layering** ,and **community expression** to **unite** past, present and future society.

01. Representation.

02. Unification.

03. Appropriation.

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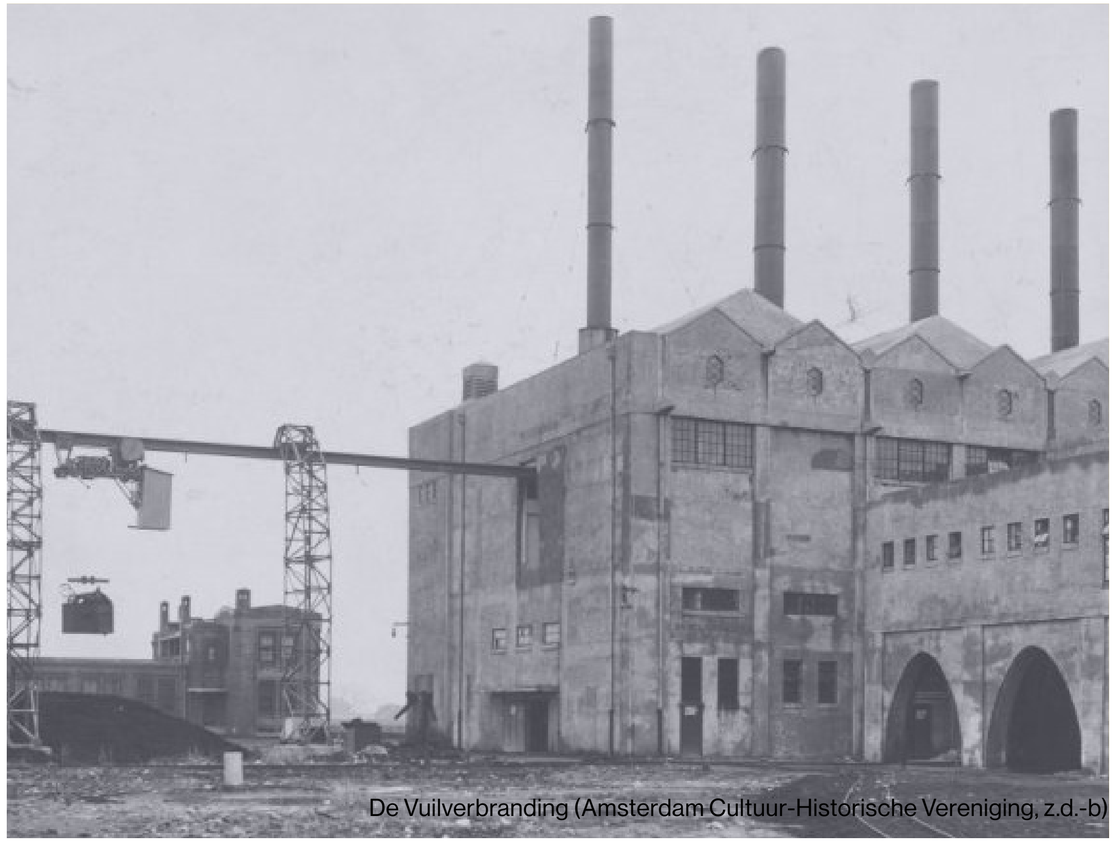
Research question.

“Which **architectural elements** and **material design strategies** can be implemented into the architectural design of this **civic center** in Amsterdam-North to reflect the **identities** associated with the **history** and **socioeconomic transformations** related to Buiksloterham?”

Industry.



De Vuilverbranding (Amsterdam Cultuur-Historische Vereniging, z.d.-b)



Map of Buiksloterham in 1918 (Amsterdam Cultuur-Historische Vereniging, z.d.-b)

Then
Heavy Industry

Now
Creative makers Industry

Residents.



The waiting line for the ferry on the Buiksloerweg in 1938 (Gemeente Amsterdam, 2024)

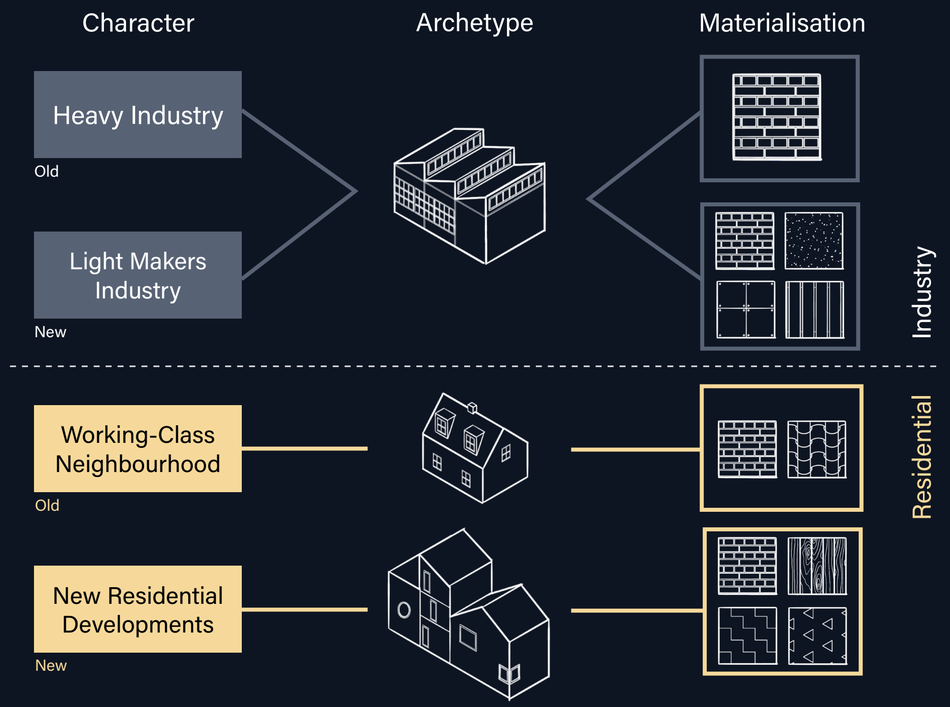


Buiksloterham in the future model (Studio KU+, 2020)

Then
Working-class

Now
Diverse residents

Conclusion research.



Overview of distilled key architectural elements per identified identity group of Buiksloterham (De Potter, 2025)

Then Heavy Industry — *Industry* → **Now** Creative makers Industry

Then Working-class — *Residents* → **Now** Great diversity

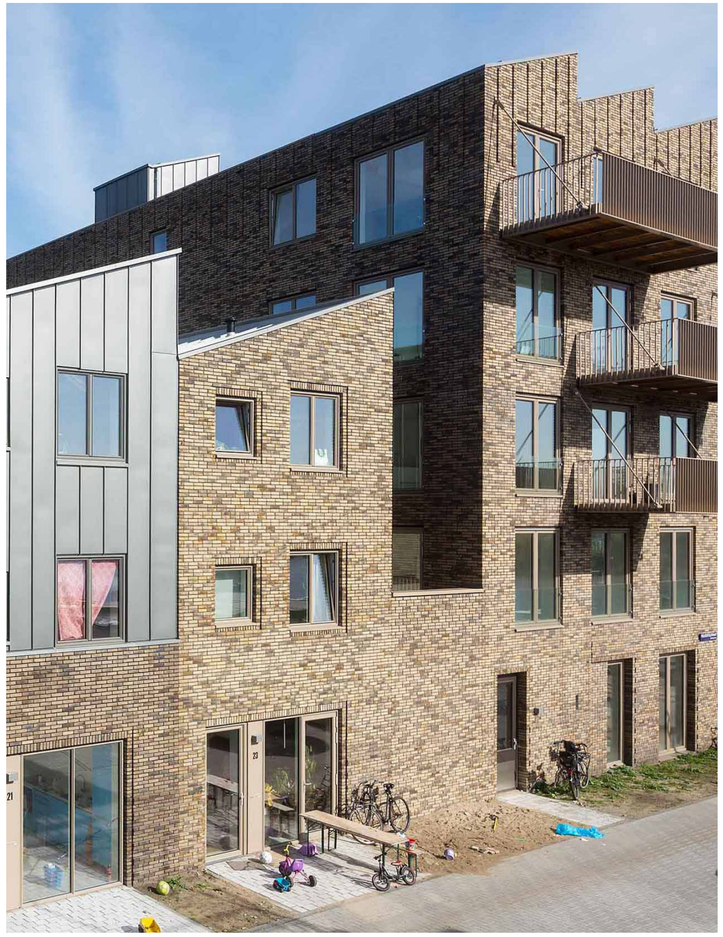
Heritage strategies.



Design by Marc Koehler Architects, in Buiksloterham (2024)



Mama Shelter Hotel by Paul de Ruiter, in Buiksloterham (2024)



De Vrije Kade by Some Architects, in Buiksloterham (2016)

Heritage strategies.



Design by Marc Koehler Architects, in Buiksloterham (2024)



Mama Shelter Hotel by Paul de Ruiter, in Buiksloterham (2024)



De Vrije Kade by Some Architects, in Buiksloterham (2016)

Conclusion research.

The prevailing approach involves a **cosmetic** application of history, focusing on **surface-level** preservation.

Positioning.

Instead of **decorating** with historical elements, **design** with its DNA.

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03. Design.

- Representation.
- Unification.
- Appropriation

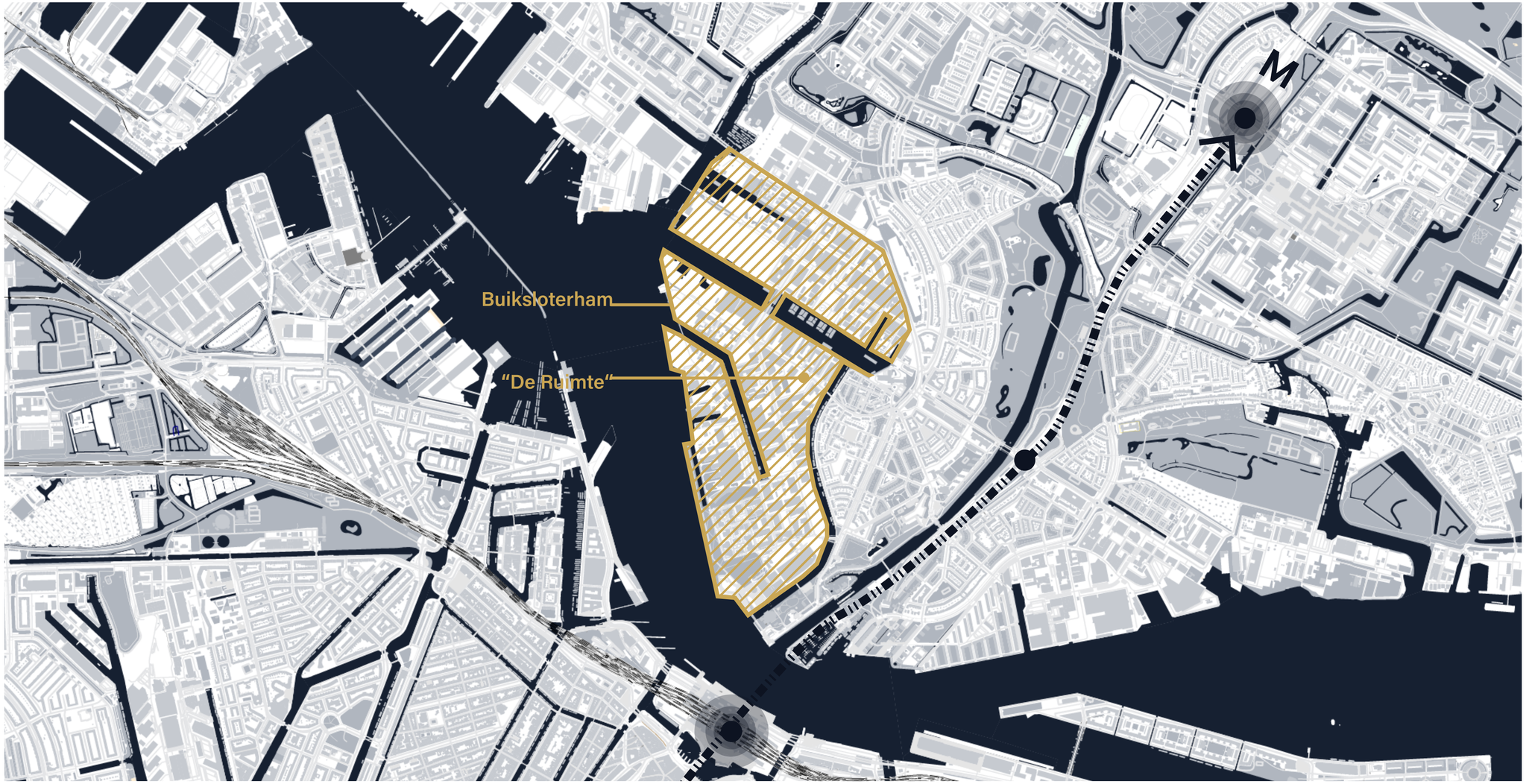
04. Reflection.

Redesigning a **civic center** in Amsterdam-Noord to relfect **civic ambition** , **historical layering**, and **community expression** to **unite** present and future society

01. **Representation.** Architecture that reflect the spatial histories of diverse local communities, to reinforce/ protect local heritage and promote social cohesion

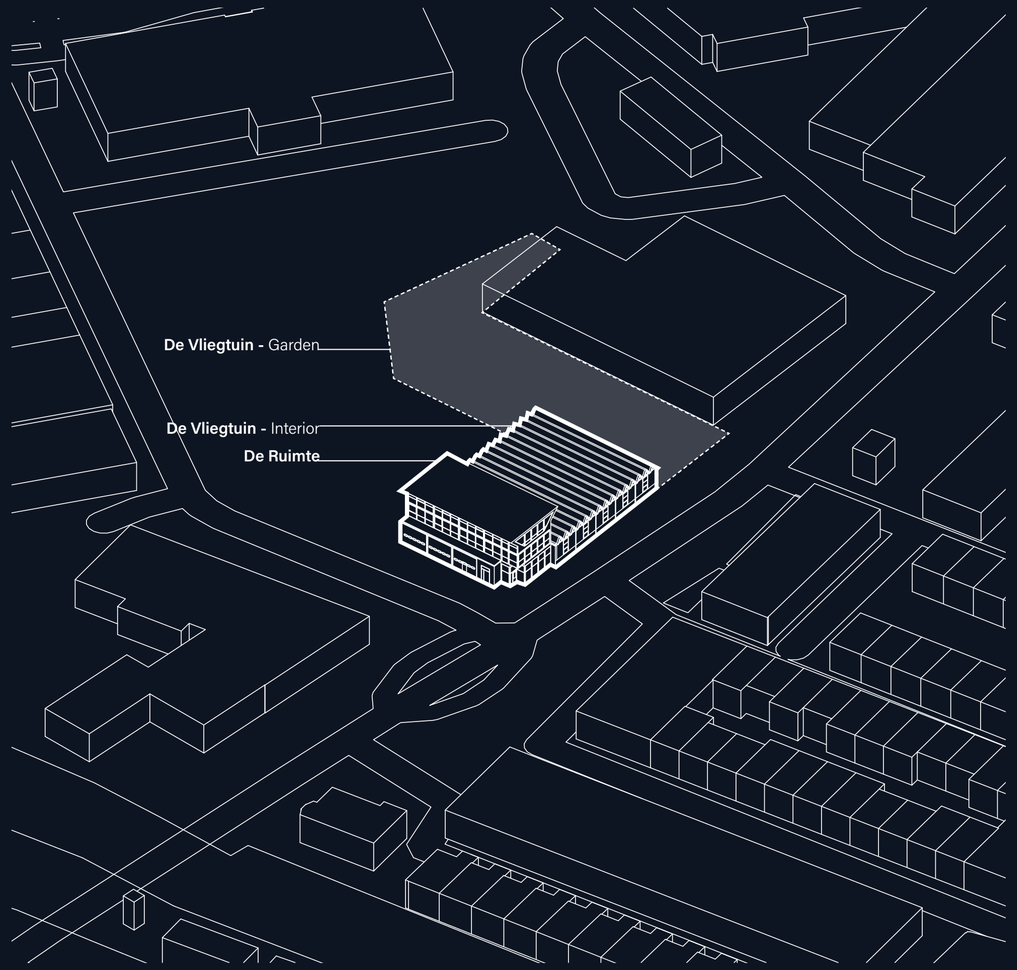
02. **Unification.**

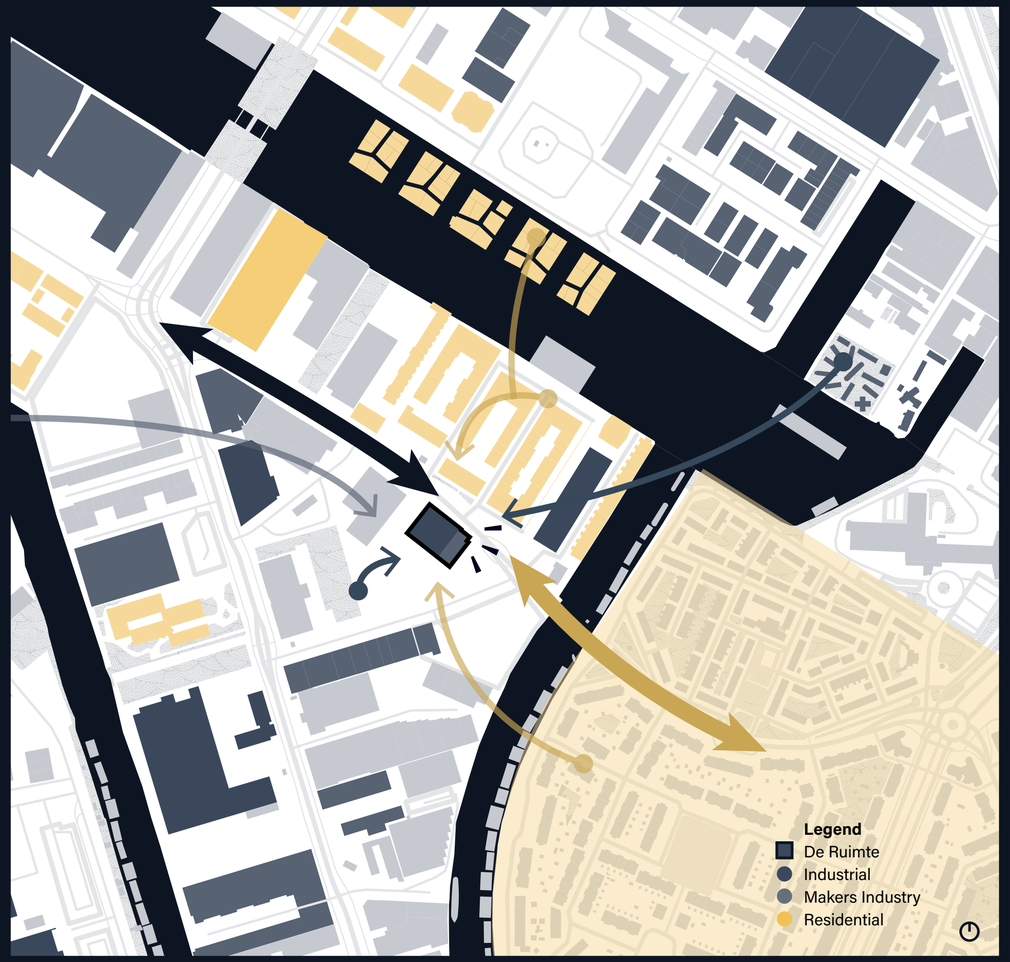
03. **Appropriation.**



Buiksloterham in Amsterdam-Noord (De Potter, 2024)

Site selection.





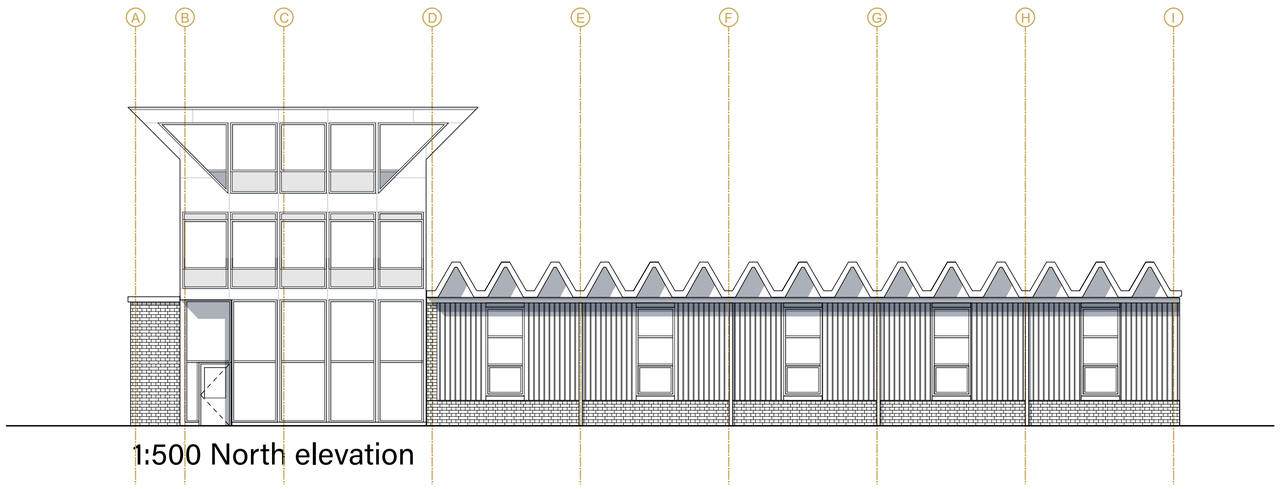
“De Ruimte”



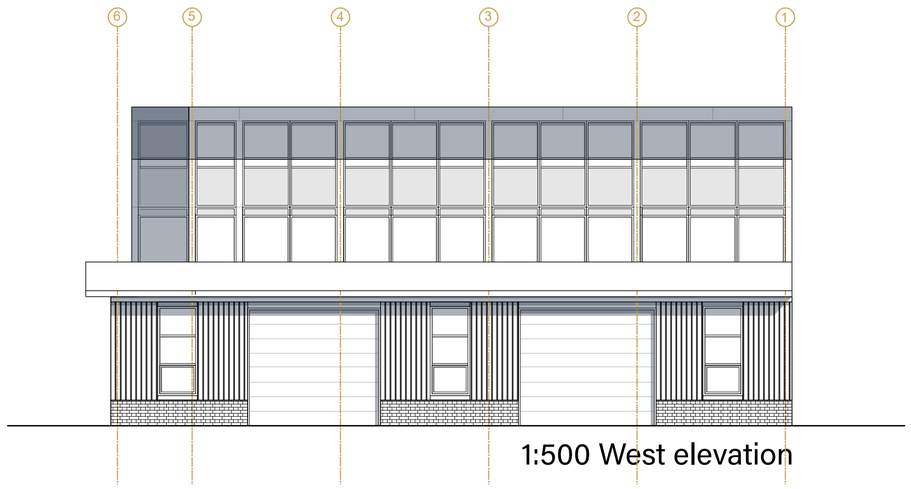




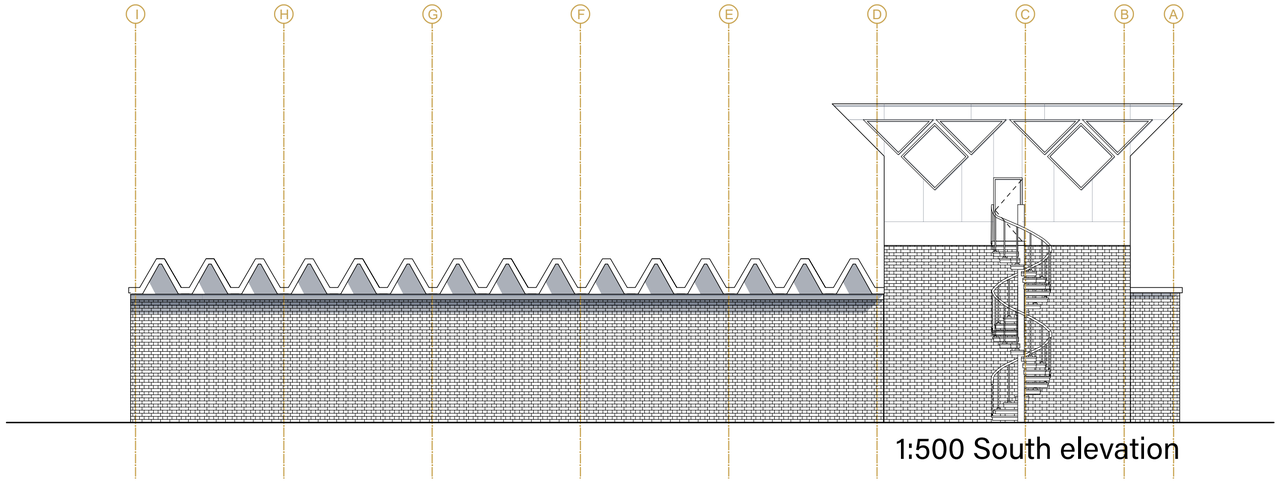
(De Potter, 2024)



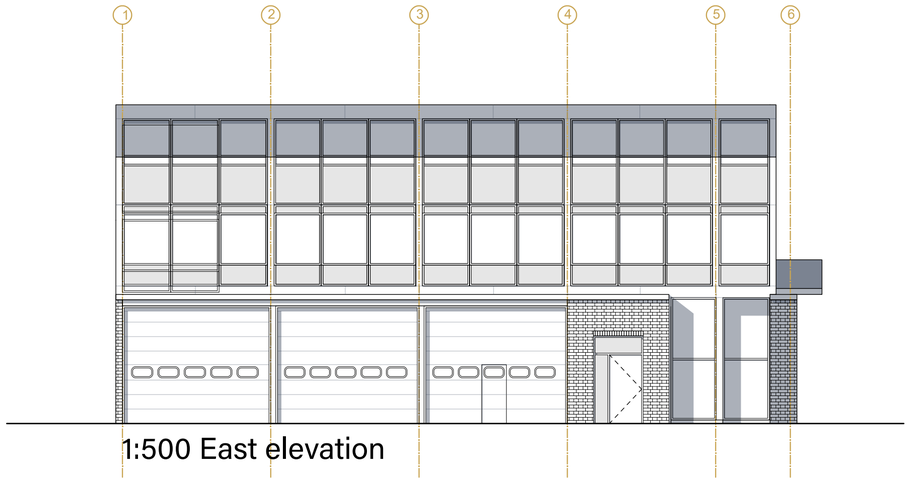
1:500 North elevation



1:500 West elevation

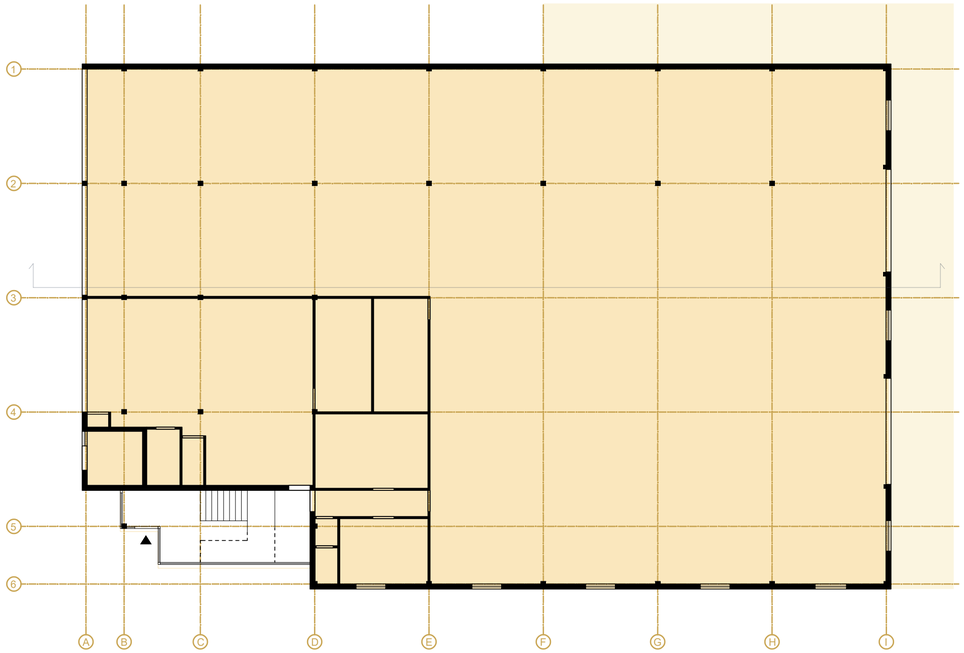


1:500 South elevation

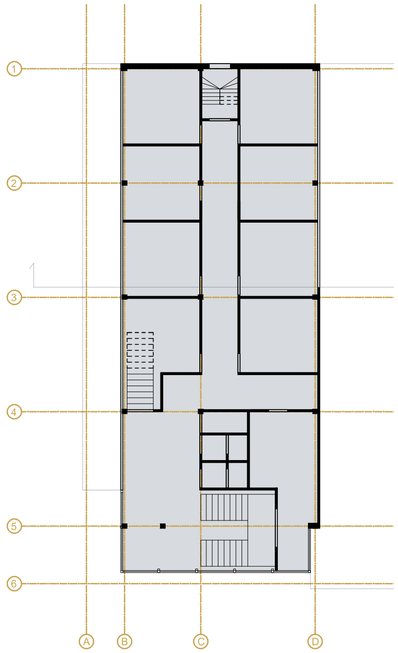


1:500 East elevation

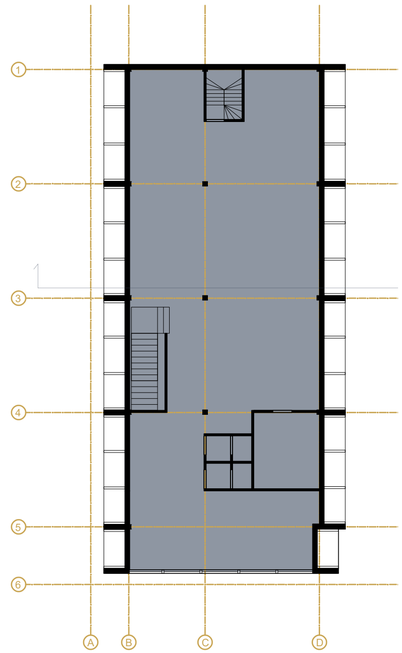
Legend
- De Vliegtuin - Interior
- De Vliegtuin - Garden
- Flexible workspace
- De Ruimte



1:500 Ground floorplan



1:500 First floor



1:500 Second floor



“De Vliegtuin”







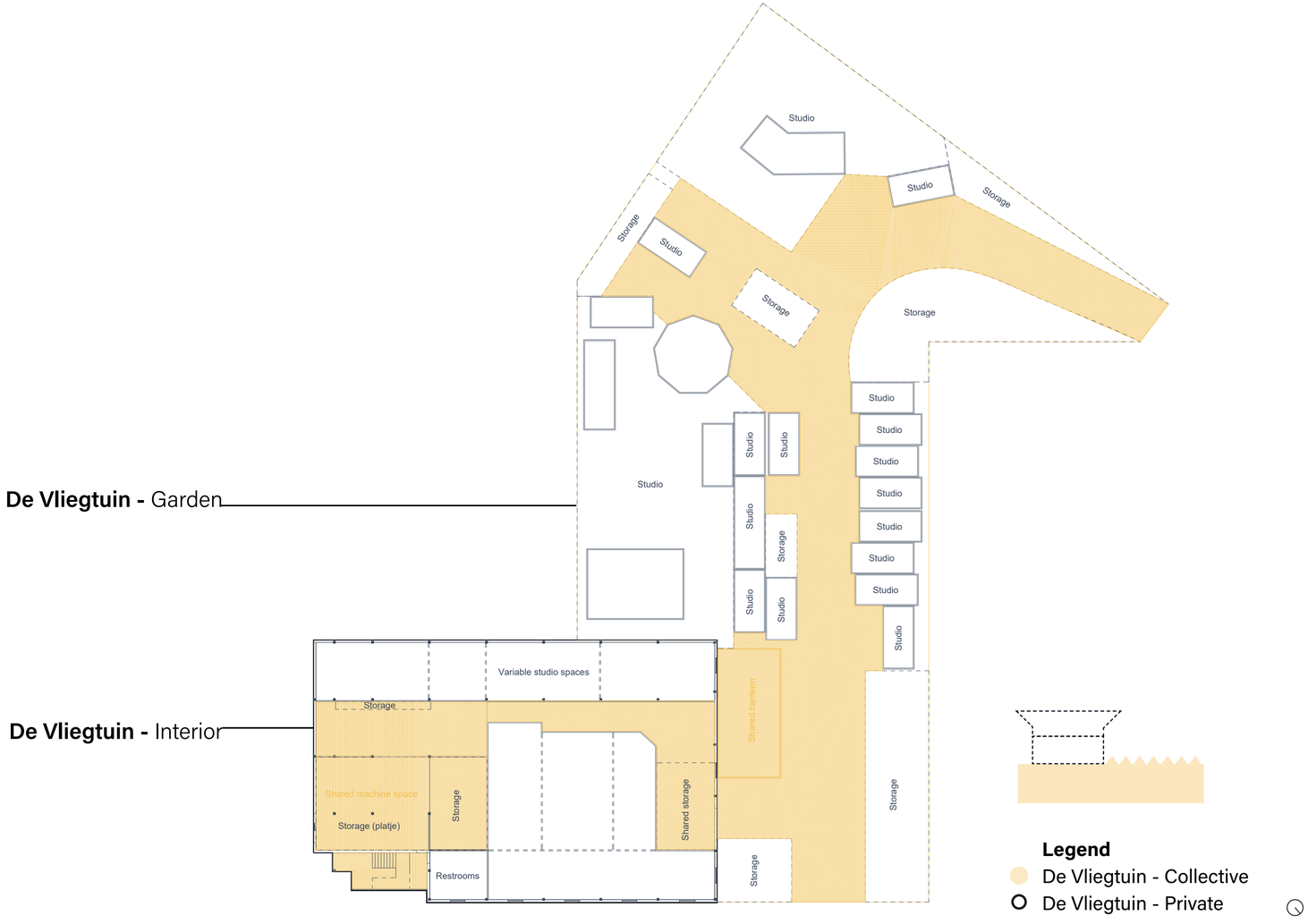
(De Potter, 2024)

“De Vliegtuin”



De Vliegtuin - Garden

De Vliegtuin - Interior



Cherished heritage values.

Representation heavy industry

Representation “creative makers”

Spatial qualities

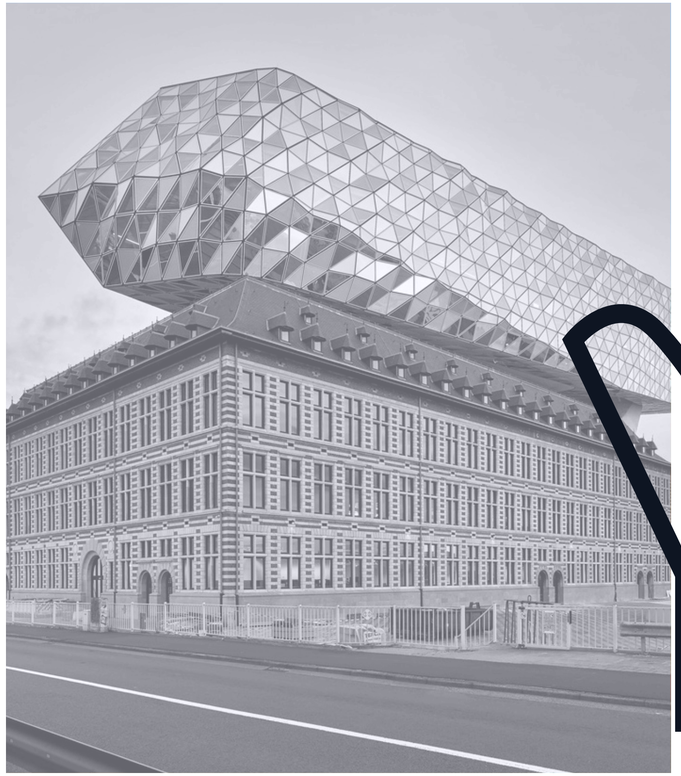
Heritage value.



Neglected

Repaired and Highlighted

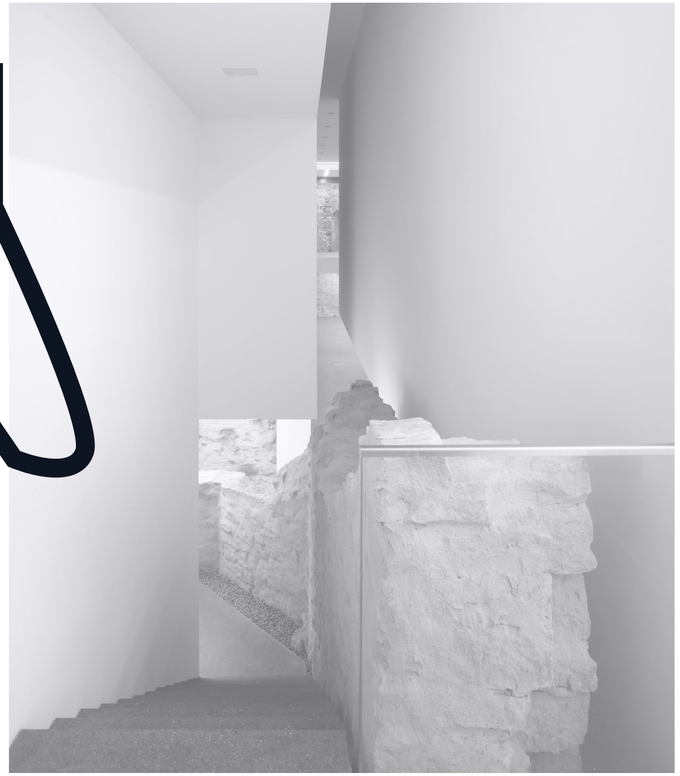
Addition.



Antwerp Port House by Zaha Hadid Arhitects (2016)

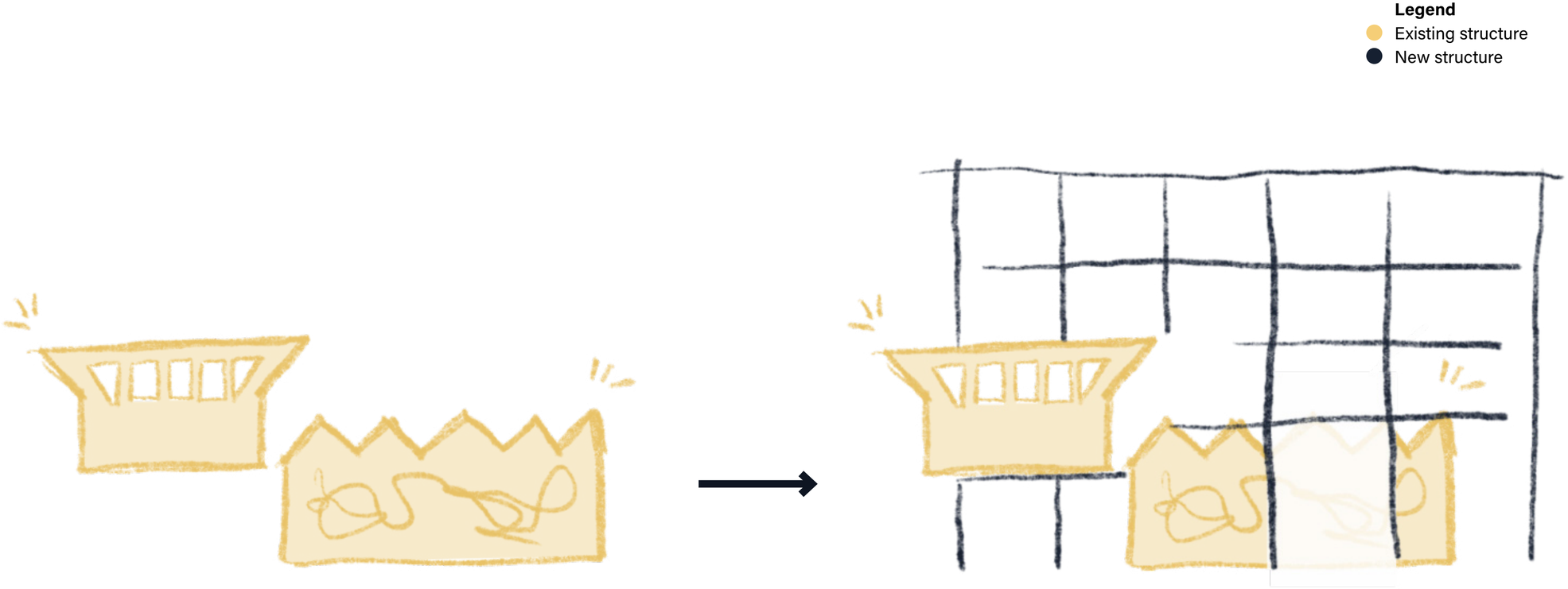


Arthouse Timelab in Gent by a2o (2023)



Moritzburg Museum in Germany by Nieto Sobejano Arquitectos (2008)

Representation



Representation of the Past & Present

Representation of the Future

A **civic center** in Amsterdam-Noord demands an architecture that relfects **civic ambition** and **community expression** to **unite** present and future society

01. **Representation.**

02. **Unification.** Architecture that empowers and enhances interaction between diverse community groups through public spatial design to restore the civic value of community centers

03. **Appropriation.**



Civic structures in and around current and former Buiksloterham (De Potter, 2024)

Target groups.

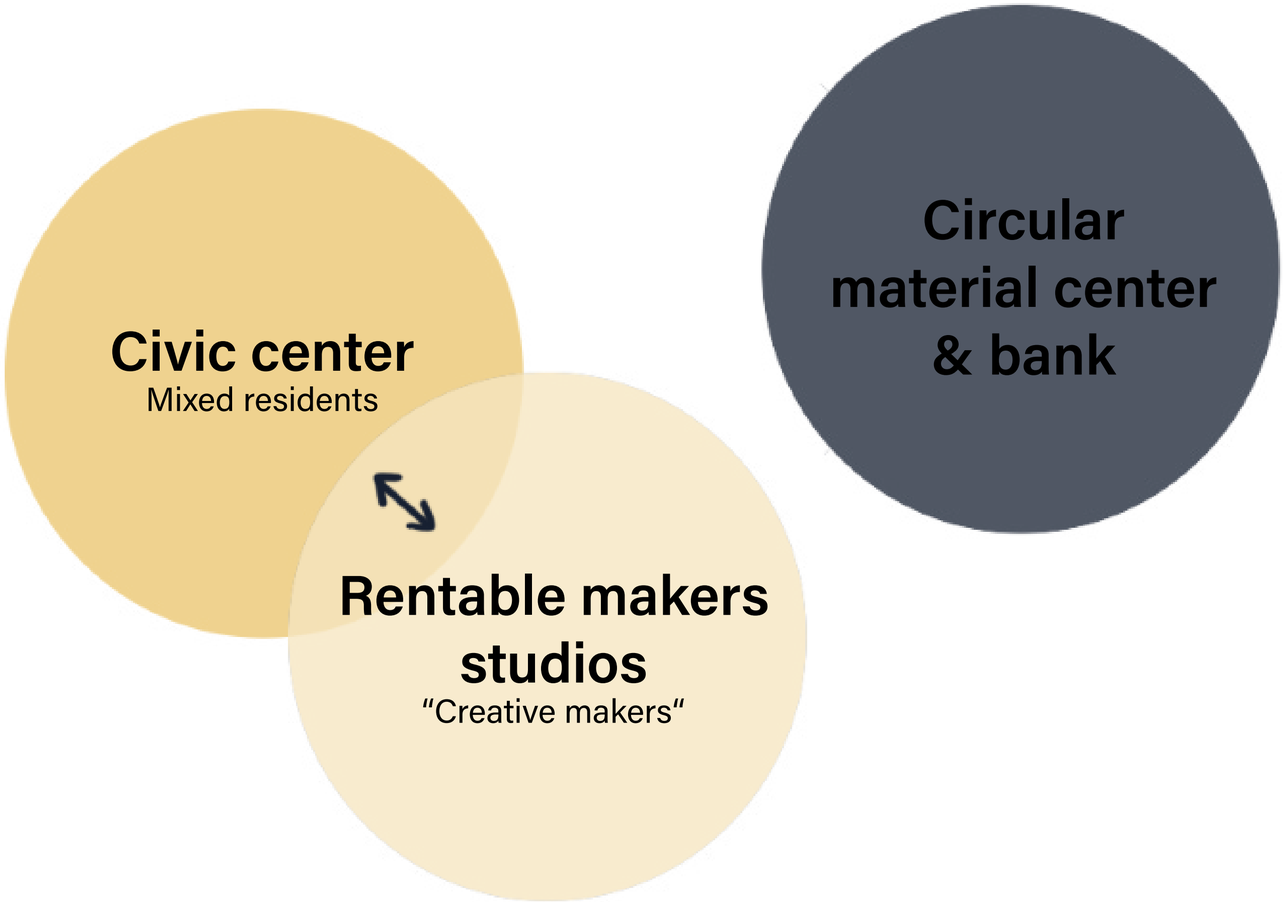
New

Mixed residents
(young) adults & families with low-, secondary education

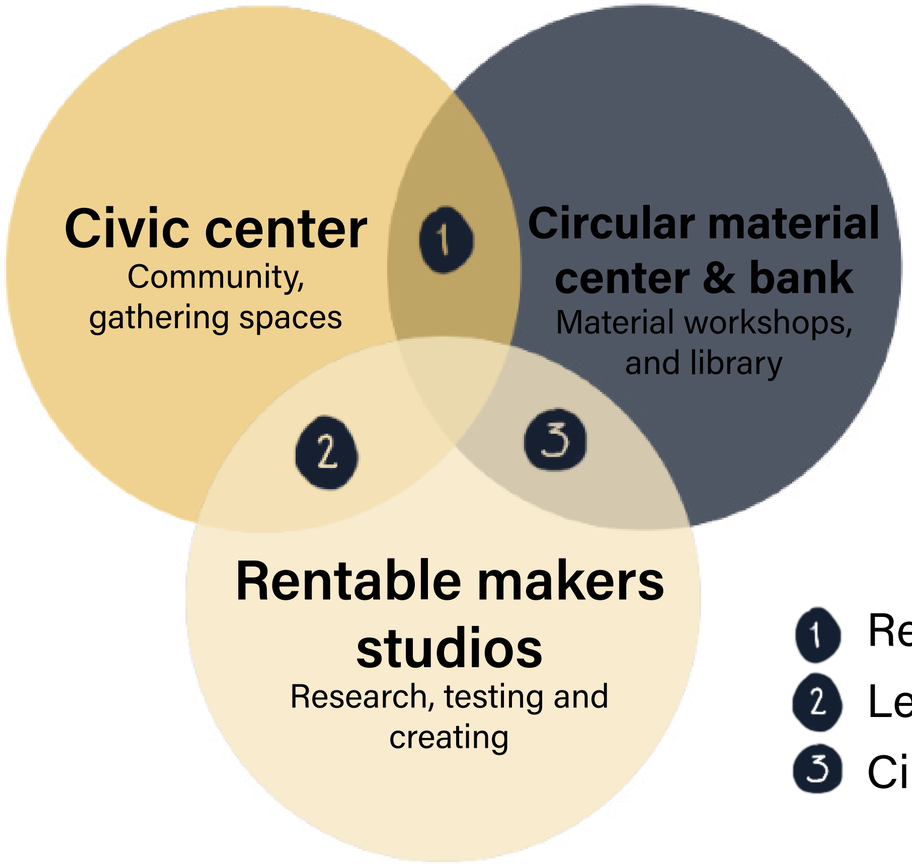
Longstanding

Small-scale makers-industries
(young) adults with high-, secondary education

Program magnets.



Proposed typology.



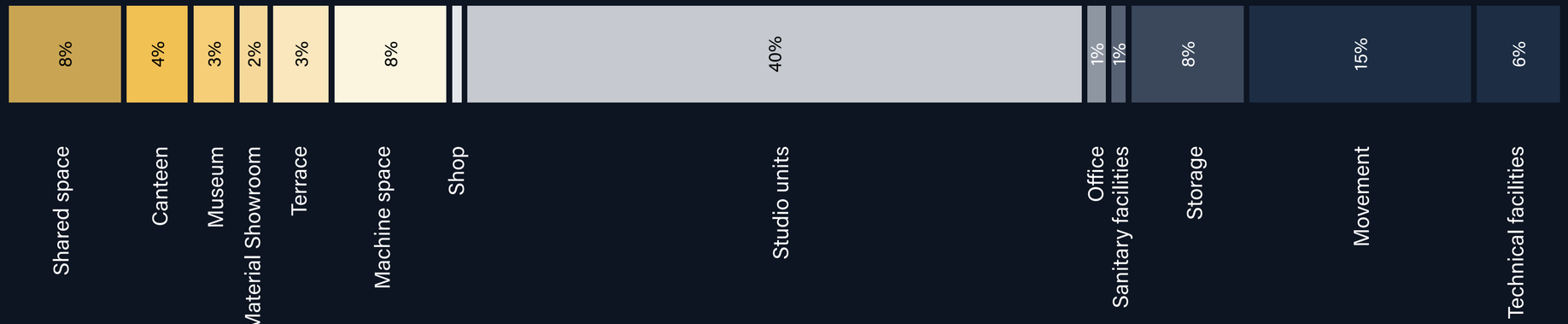
1. Resource Sharing Hub
2. Learning Hub
3. Circular Innovation Hub

Program of requirements.

Civic Center		**540 m2**
Classrooms/ rentable rooms	300 m2	
Community café	100 m2	
Kitchen		
Buiksloterham museum	140 m2	
Labs & Ateliers		**1800 m2**
Studio units		
Research, test and design labs	1100 m2	
Architects, designers and artists		
Private storage		
Creative studios (ground floor)	700 m2	
Craftsmen and artists		
Private storage		
Material Bank		**730 m2**
Material library / showroom	100 m2	
Material shops	30 m2	
Workshop & machine space	300 m2	
Heacy duty tools and machinery		
General storage	300 m2	

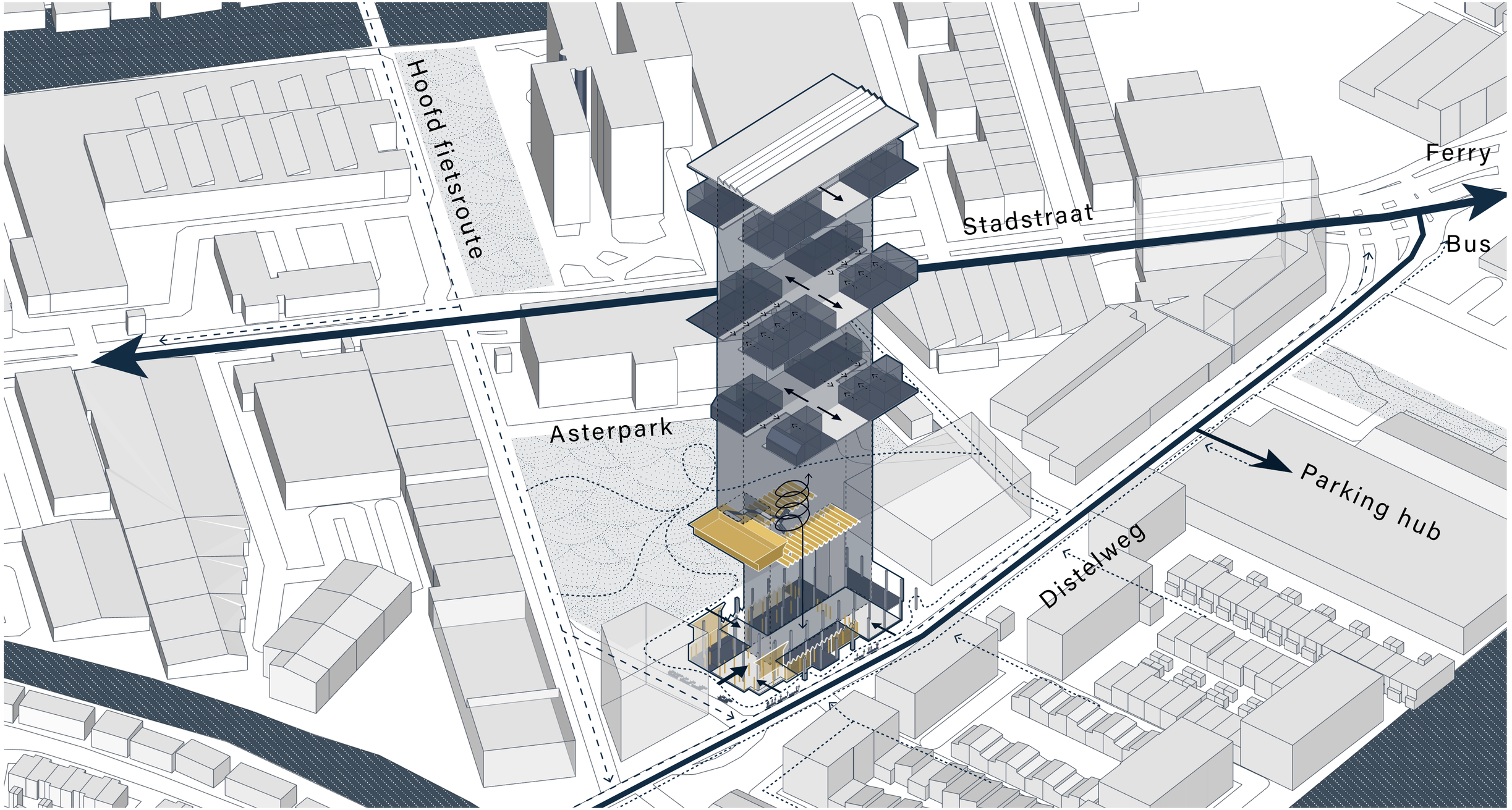
Overlapping spaces - Spark		**1120 m2**
Central hall (movement)	800 m2	
Exhibition space		
Multifunction space		
Repair café - “kitchen” of the building	120 m2	
Terrace	200 m2	
Supporting program		**420 m2**
Administrative Offices	70 m2	
Restrooms	50 m2	
Technical facilities	300 m2	
Bike storage		
Temporary parking area for loading and unloading		

Total GFA: 4610 m2



Unification




Hoofd fietsroute
Stadstraat
Ferry
Bus
Asterpark
Parking hub
Distelweg


VLEG
TUIN
KENDER

Small-scale

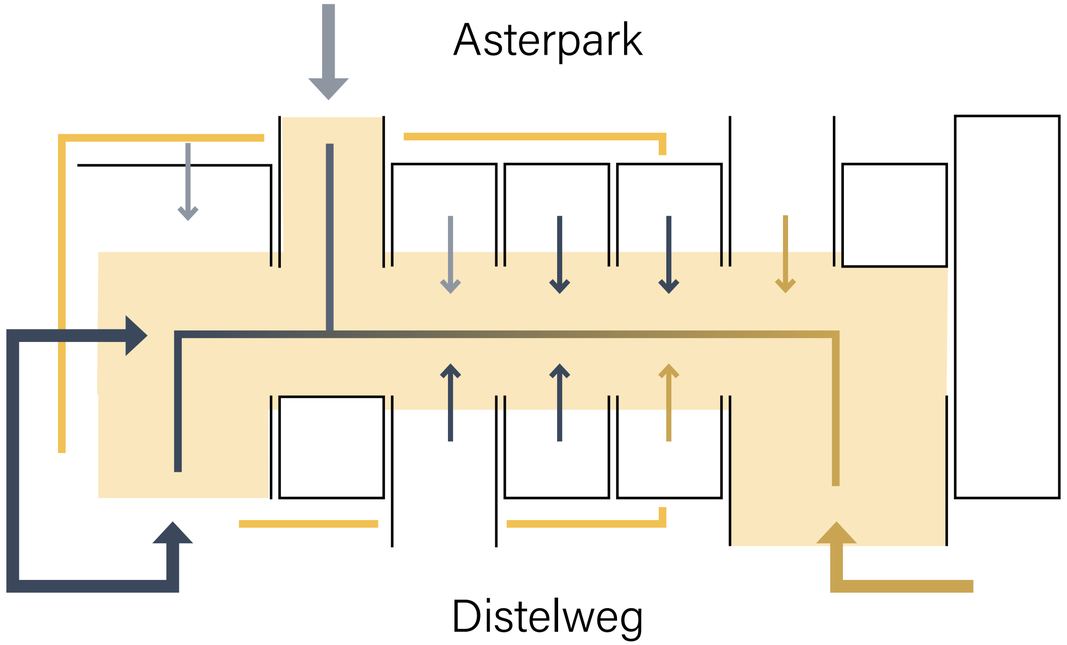
Cultural extention of Asterpark

Historical Memoir

Ground floor

Legend

- Circular maker flows - Studios and Material Centre
- Cultural flows - Historical significance
- Residential flows - Civic center



Large-scale

Small-scale industries & makers

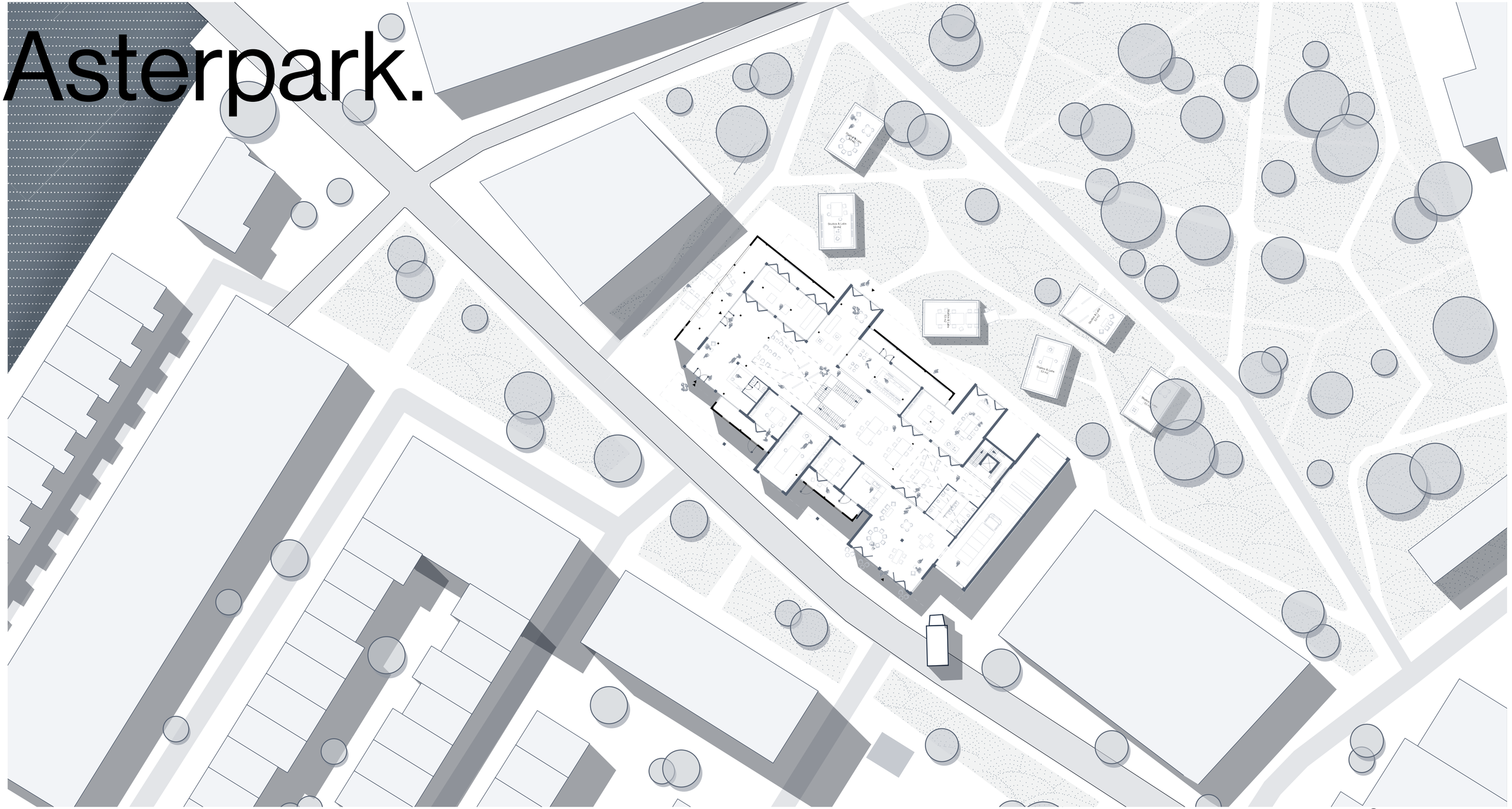
Circular Material Center

Small-scale

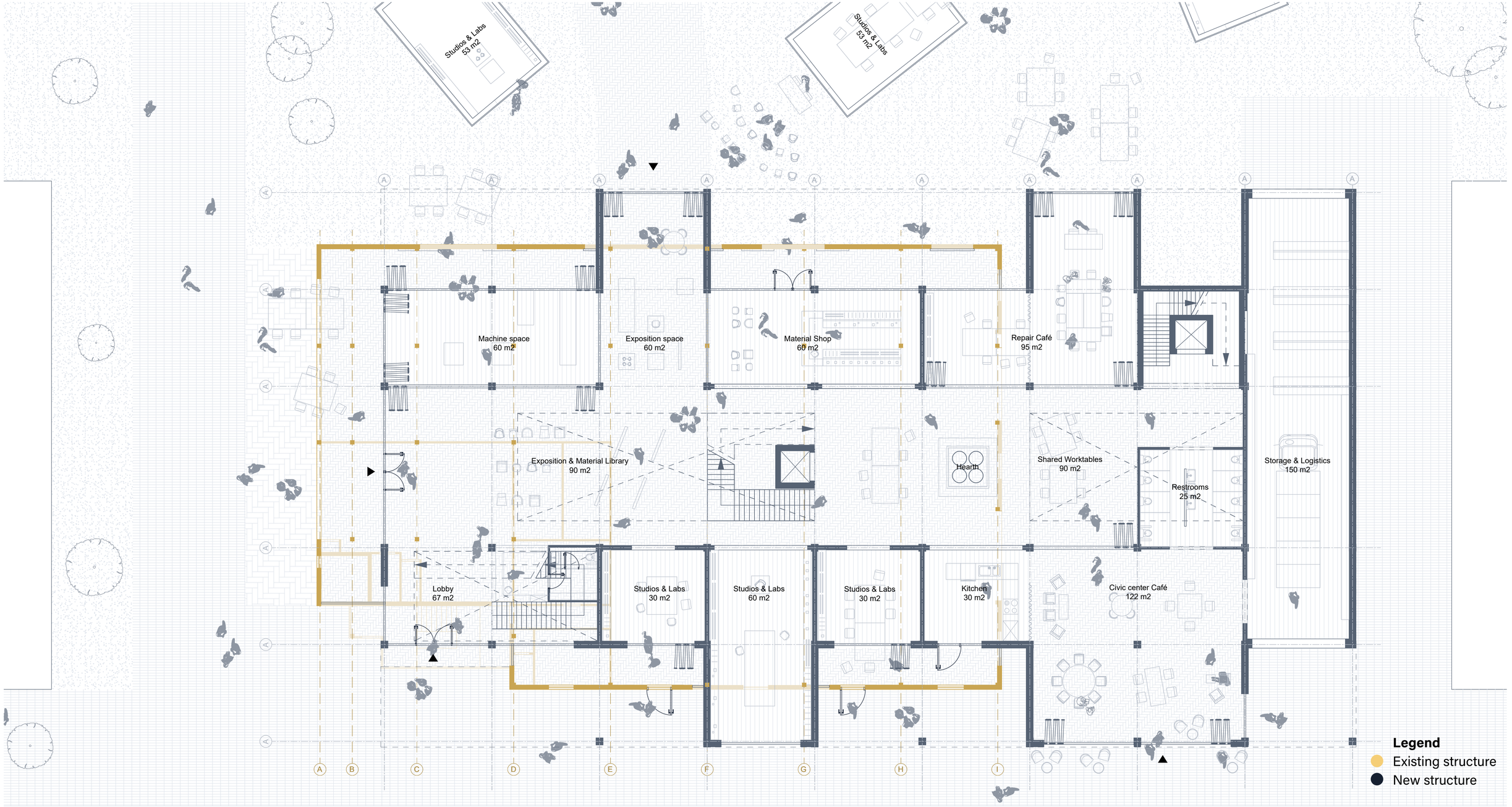
Mixed residents

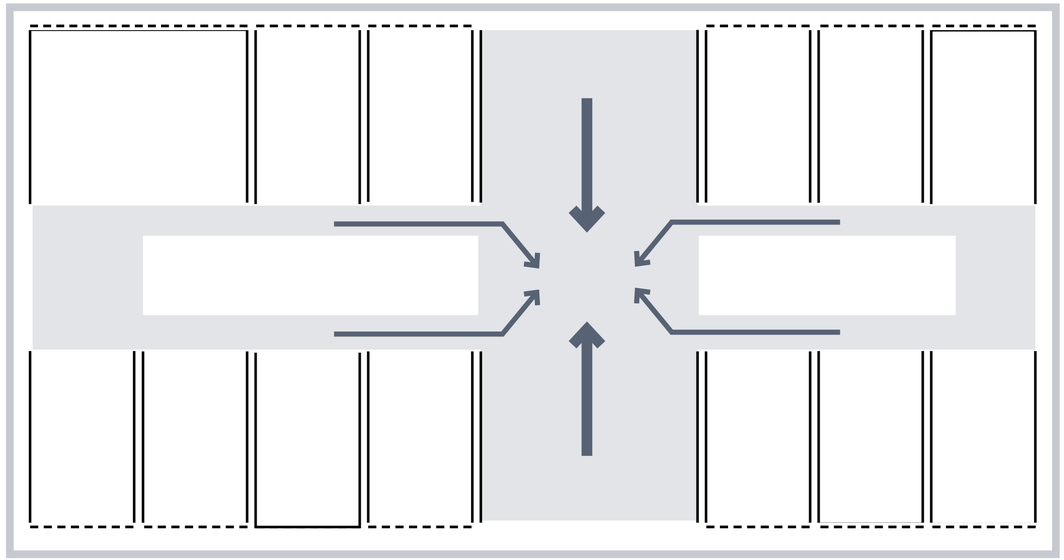
Civic center

Asterpark.



Unification



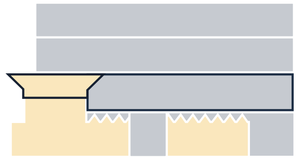


Upper floors

First floor.



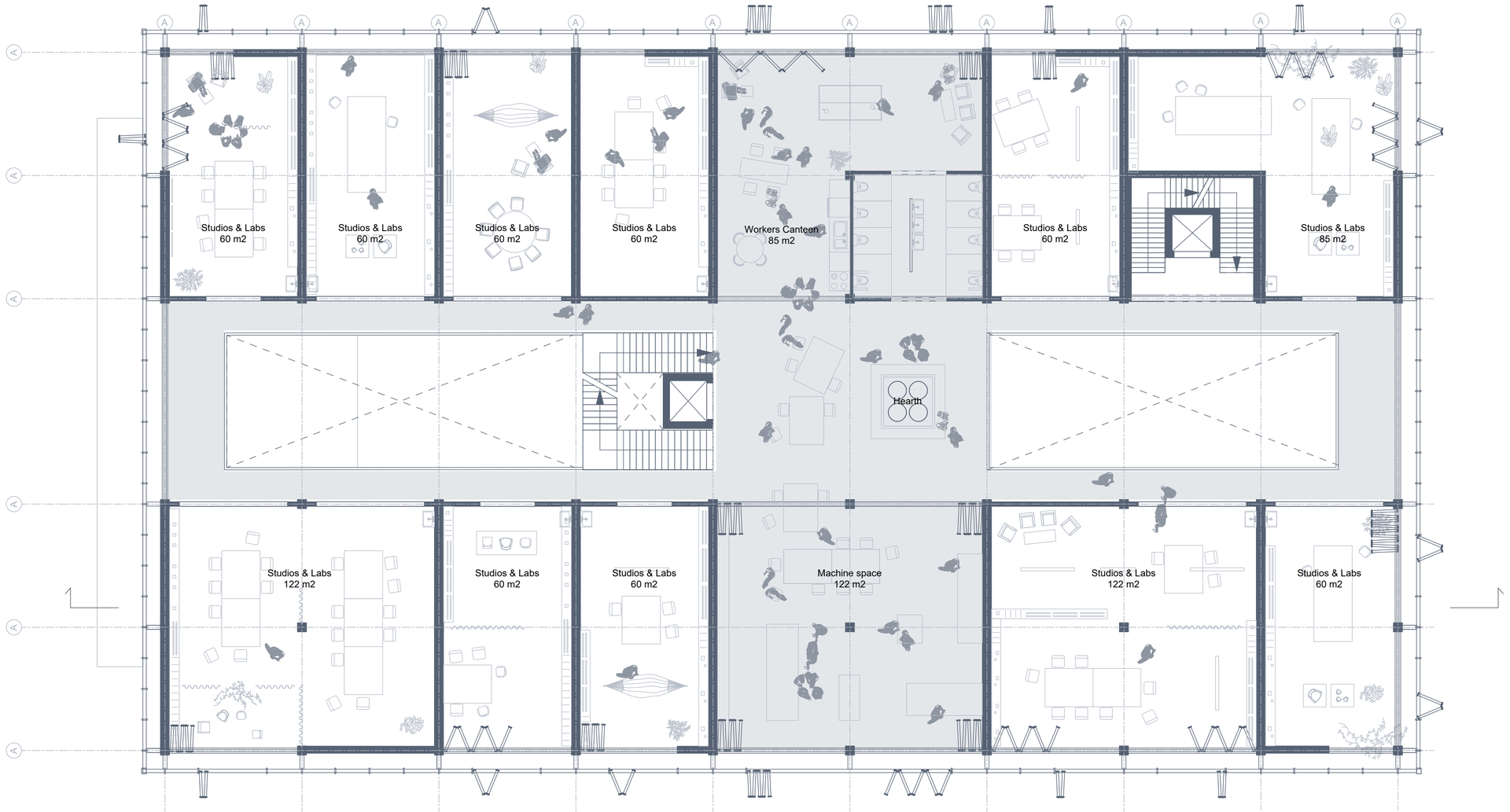
Legend
- Existing structure
- New structure

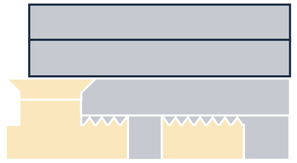


Unification



Second floor.





Unification

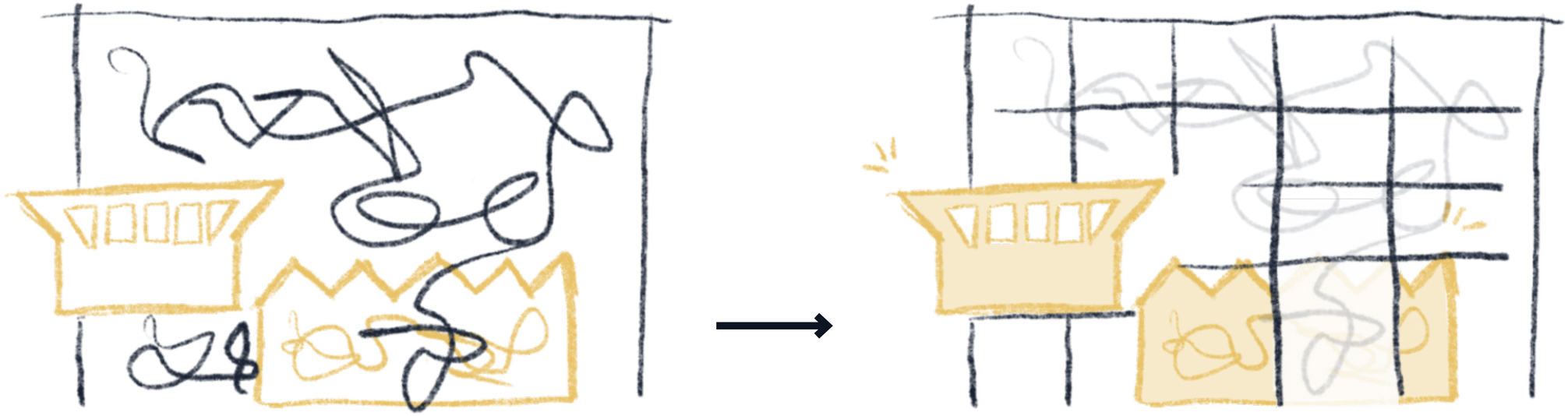


A **civic center** in Amsterdam-Noord demands an architecture that relfects **civic ambition** and **community expression** to **unite** present and future society

01. **Representation.**

02. **Unification.**

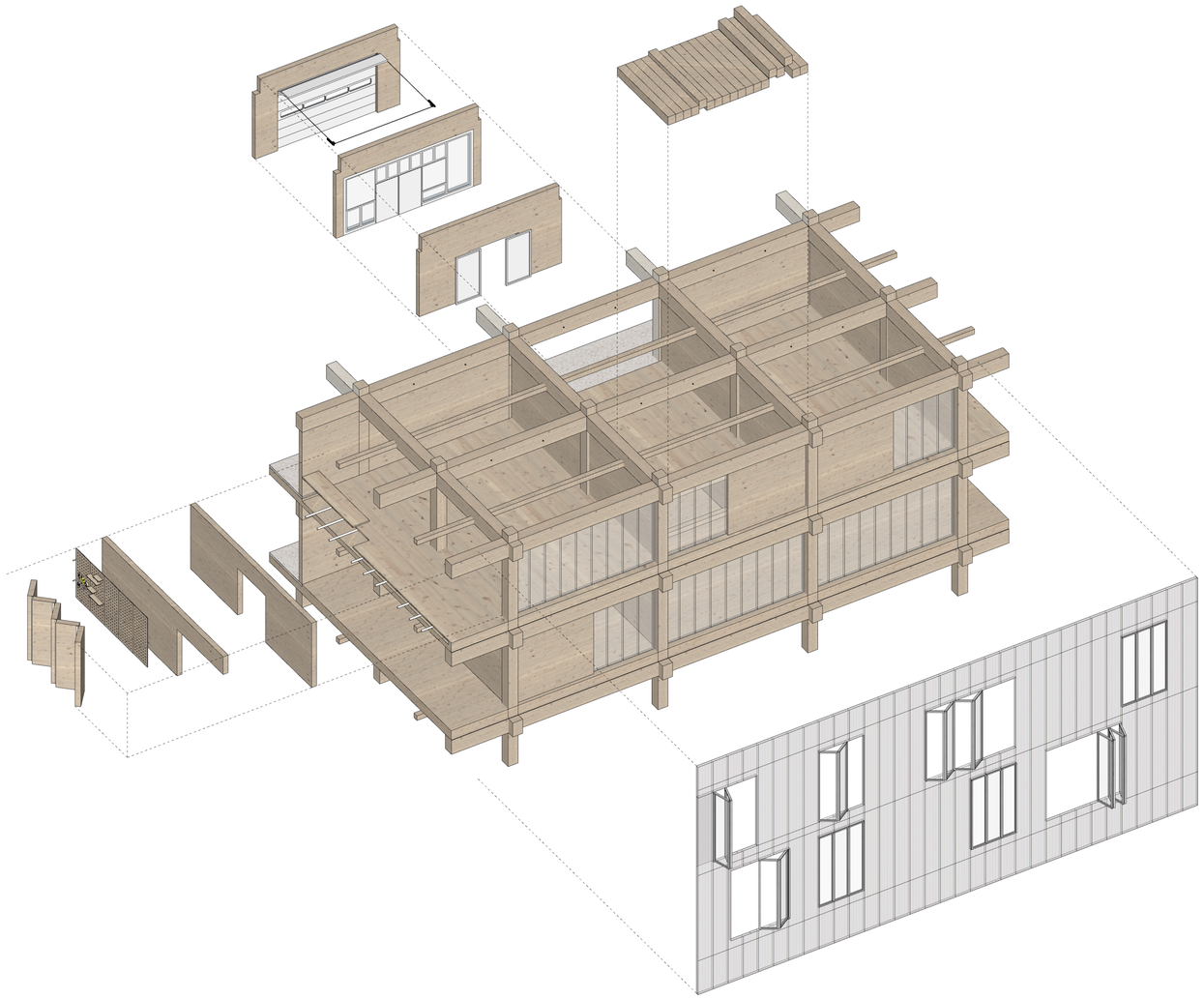
03. **Appropriation.** Architecture that offers guided freedom for user appropriation to reflect its creative heritage and empower makers communities



Proliferation of Appropriation

Balance of Scripted and Appropriated

Appropriation



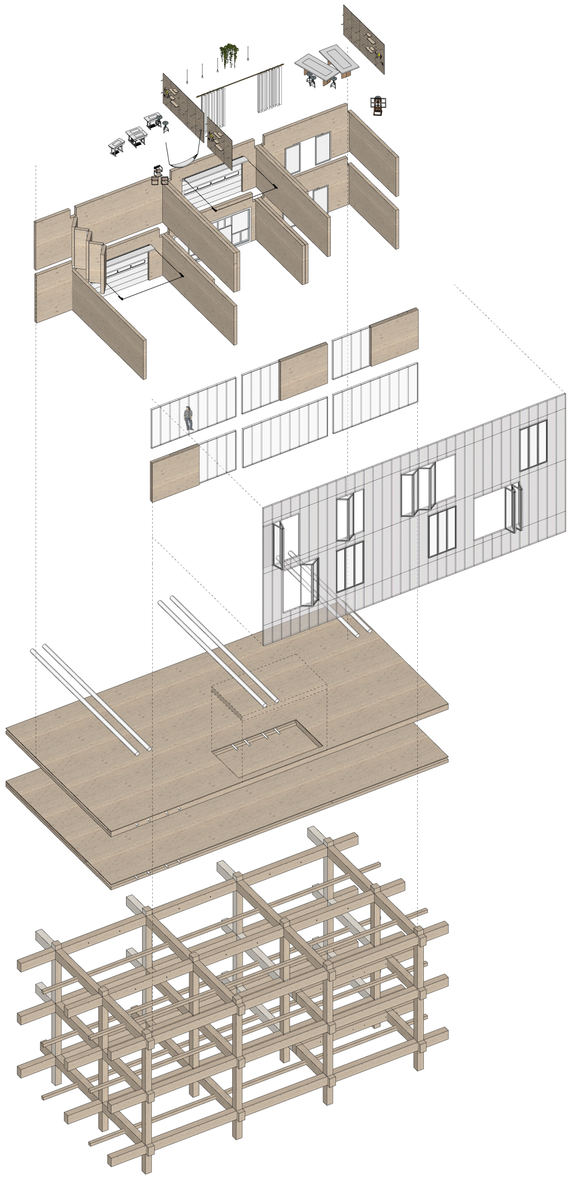
Stuff≈ 7 years

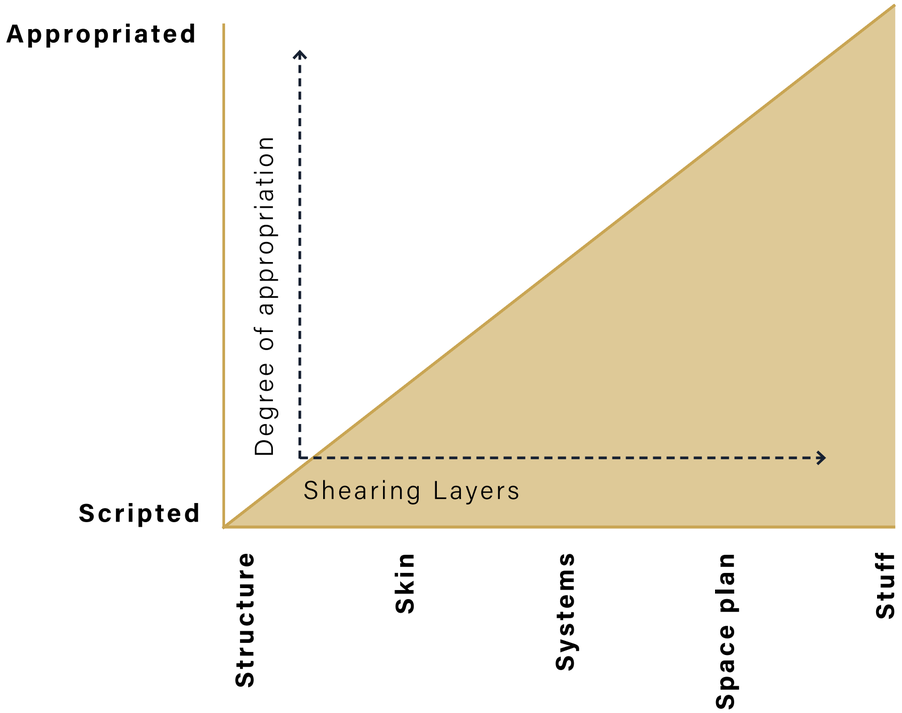
Space plan ≈ 15 years

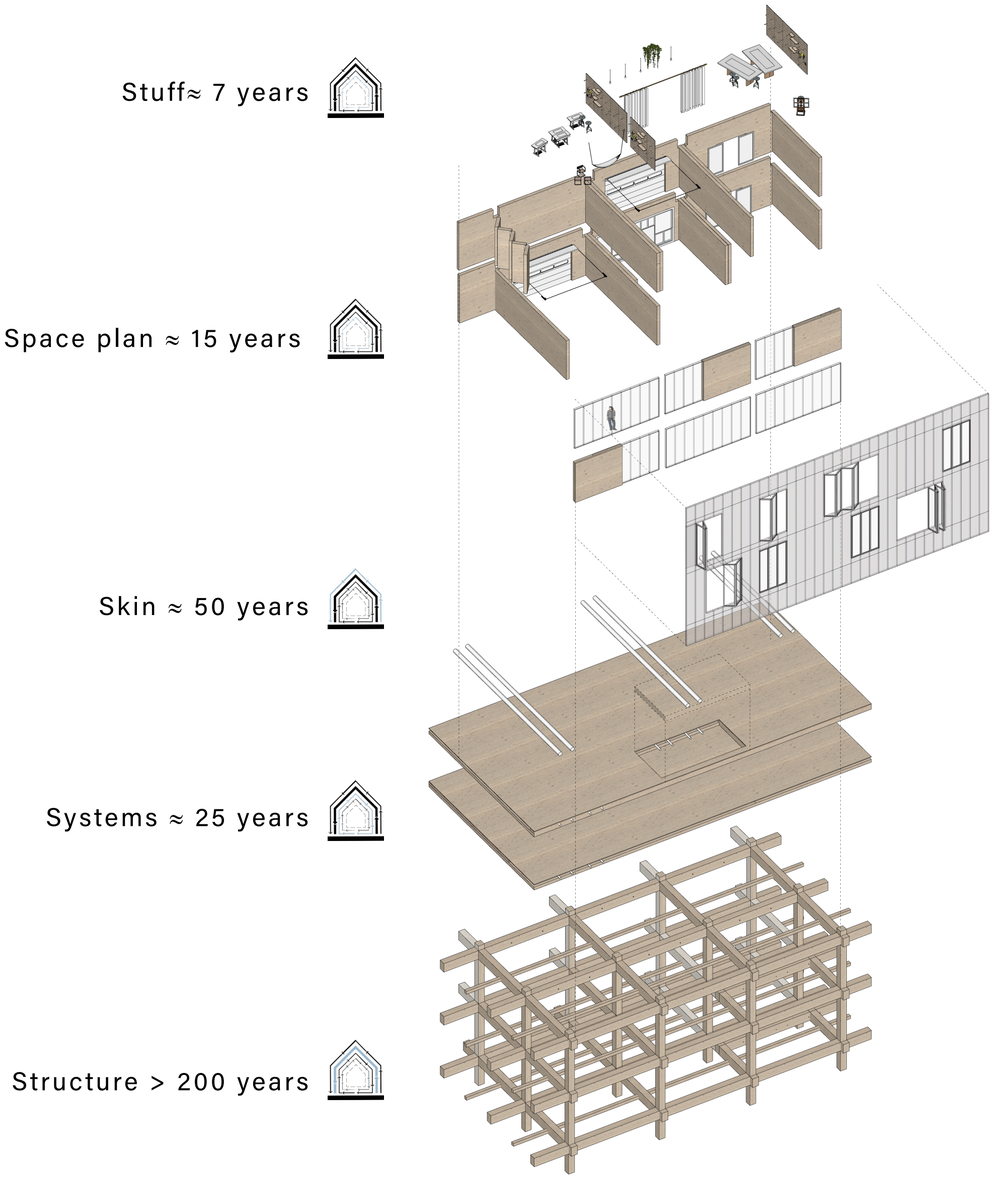
Skin ≈ 50 years

Systems ≈ 25 years

Structure > 200 years




Appropriated
Scripted
Degree of appropriation
Shearing Layers
Structure
Skin
Systems
Space plan
Stuff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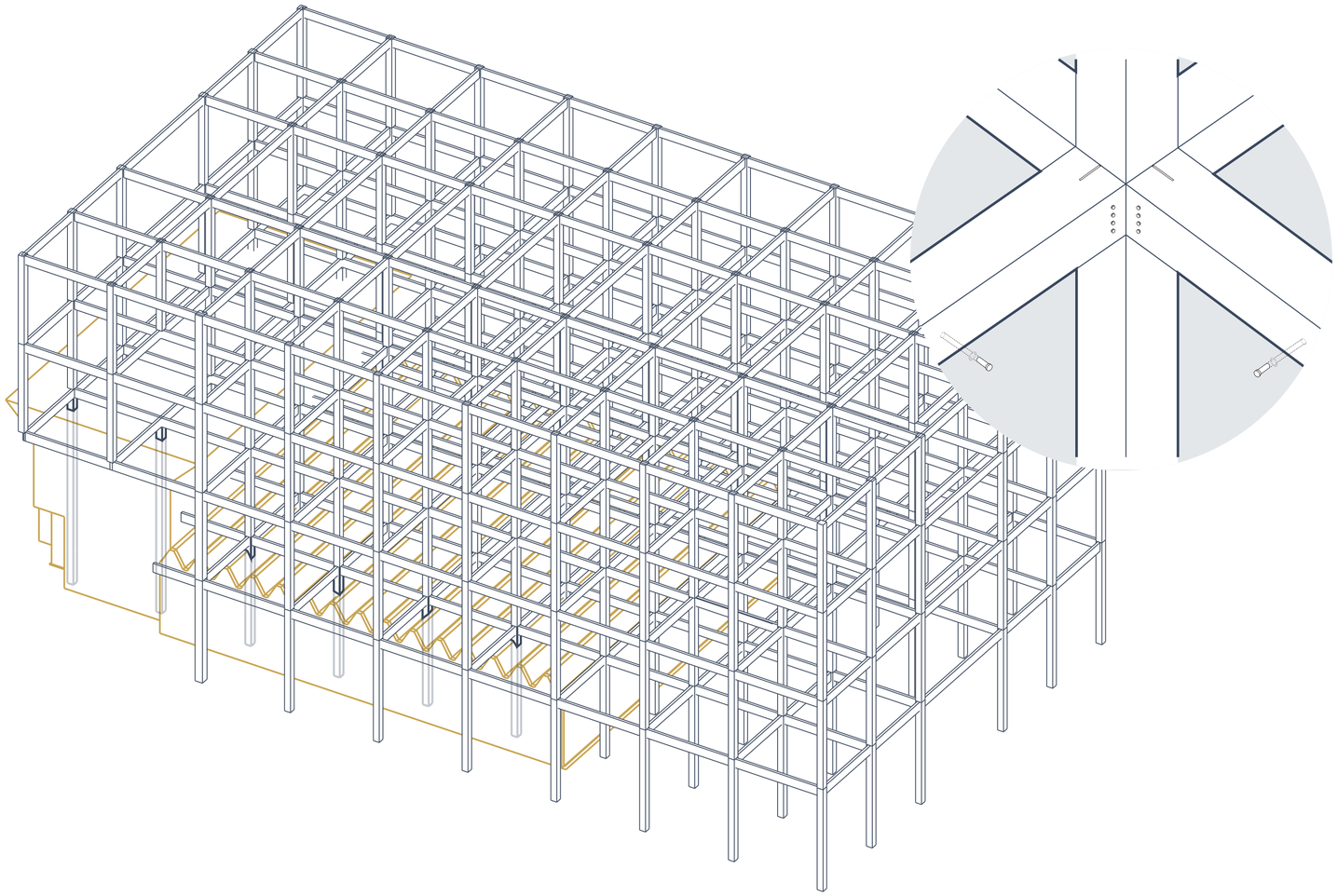
Structure.



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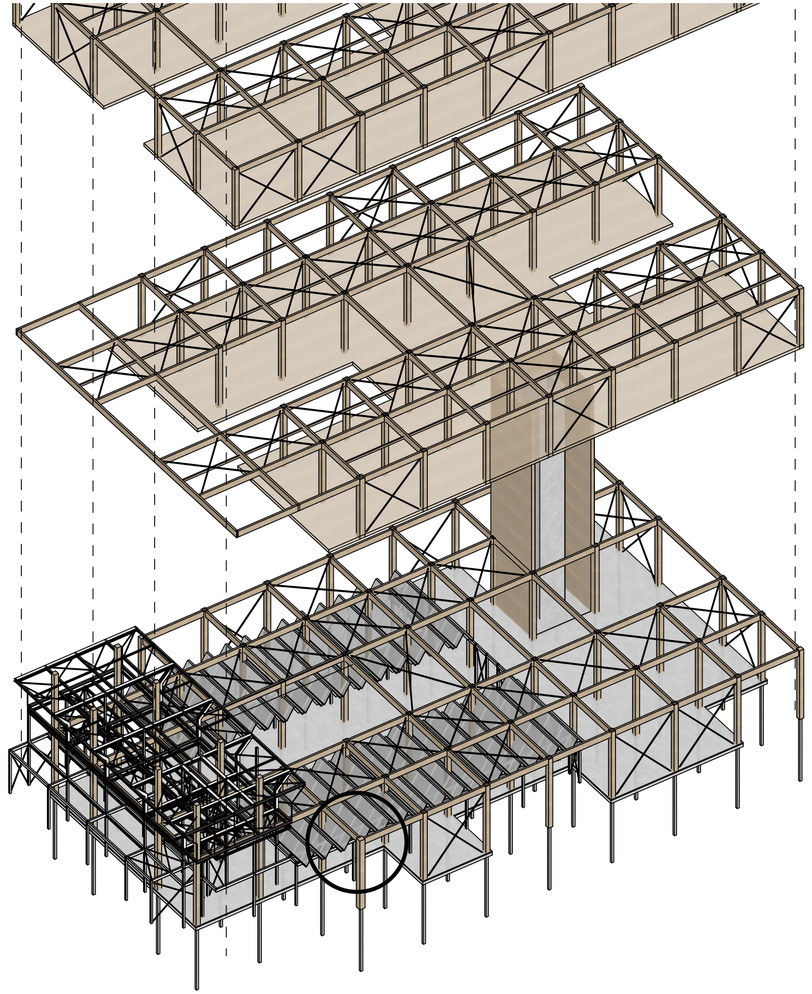
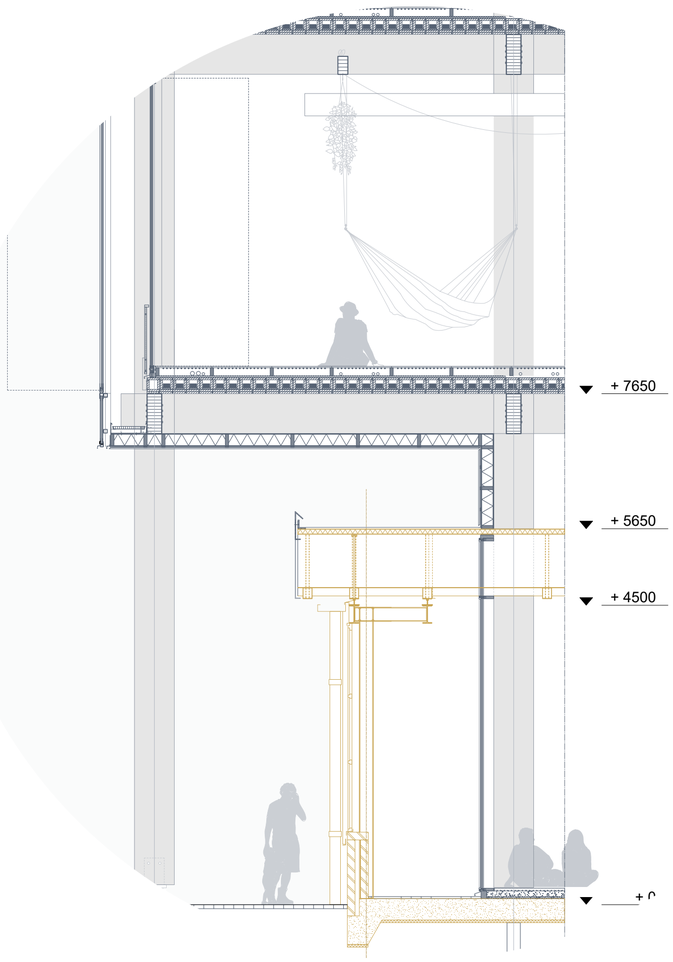
Structure > 200 years

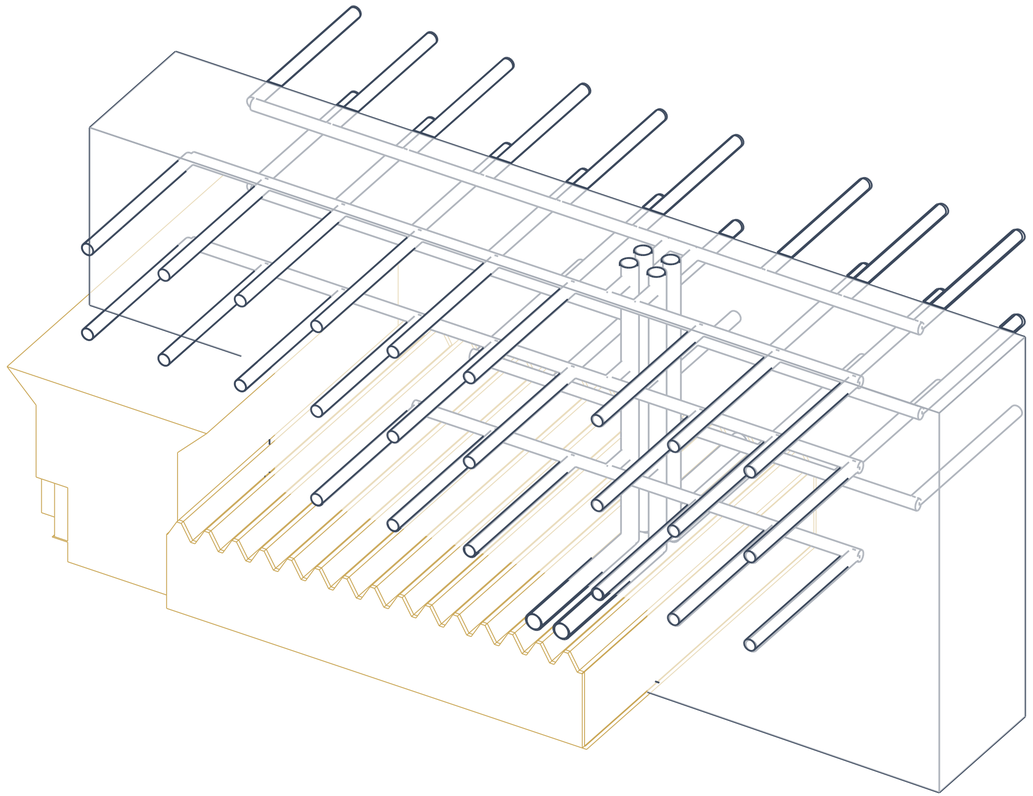
Legend
- Existing structure
- New structure

Appropriation





Systems.



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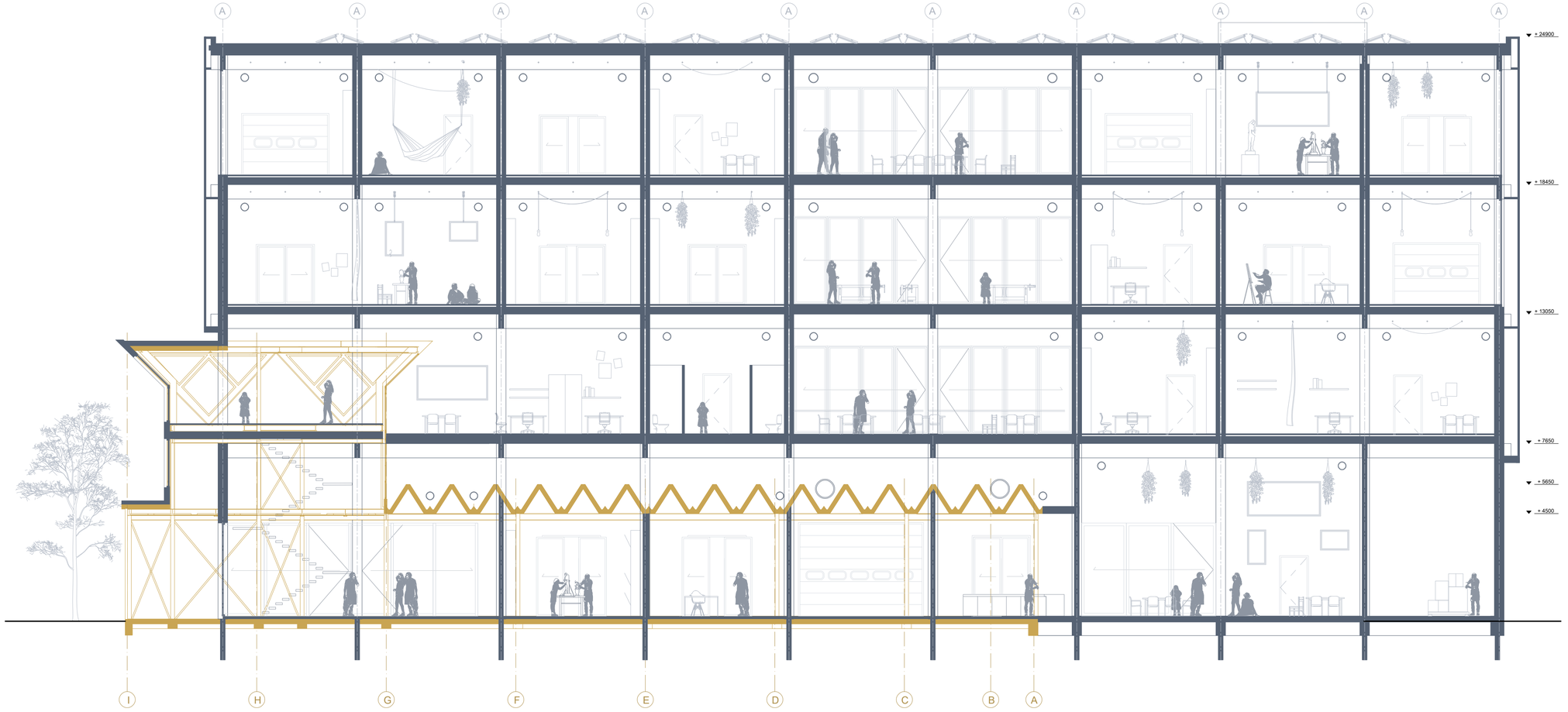
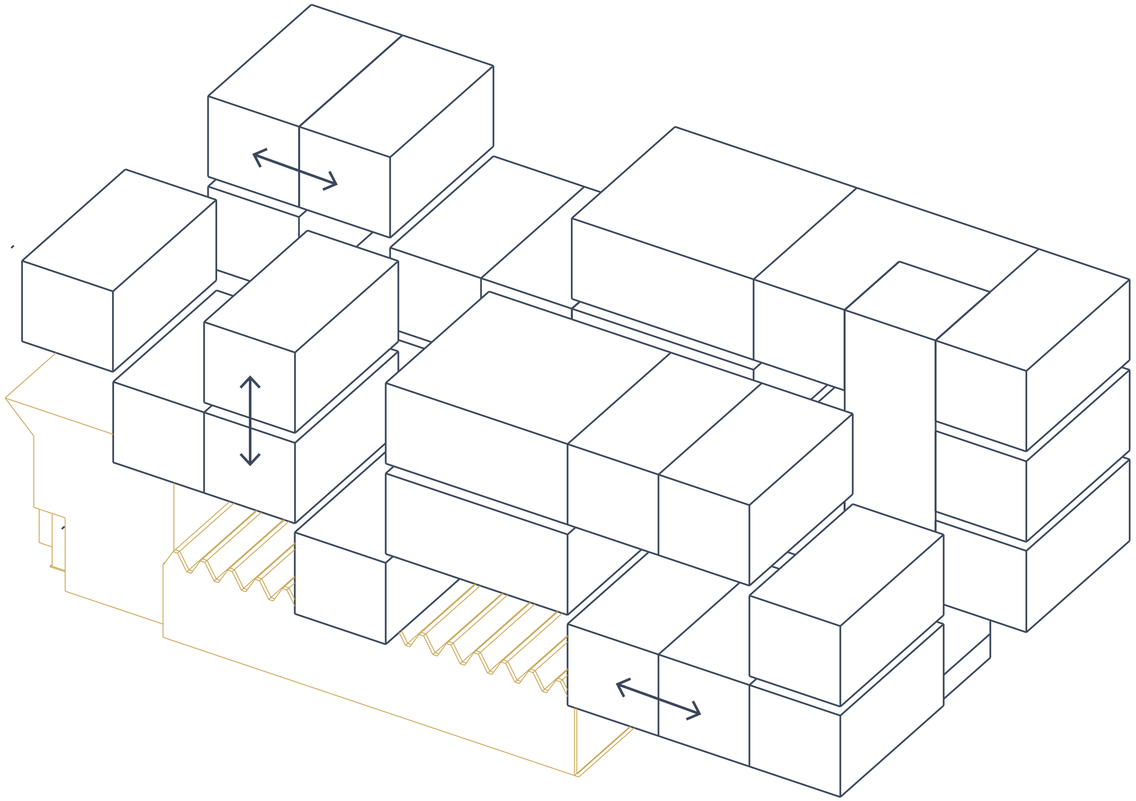


Space plan.



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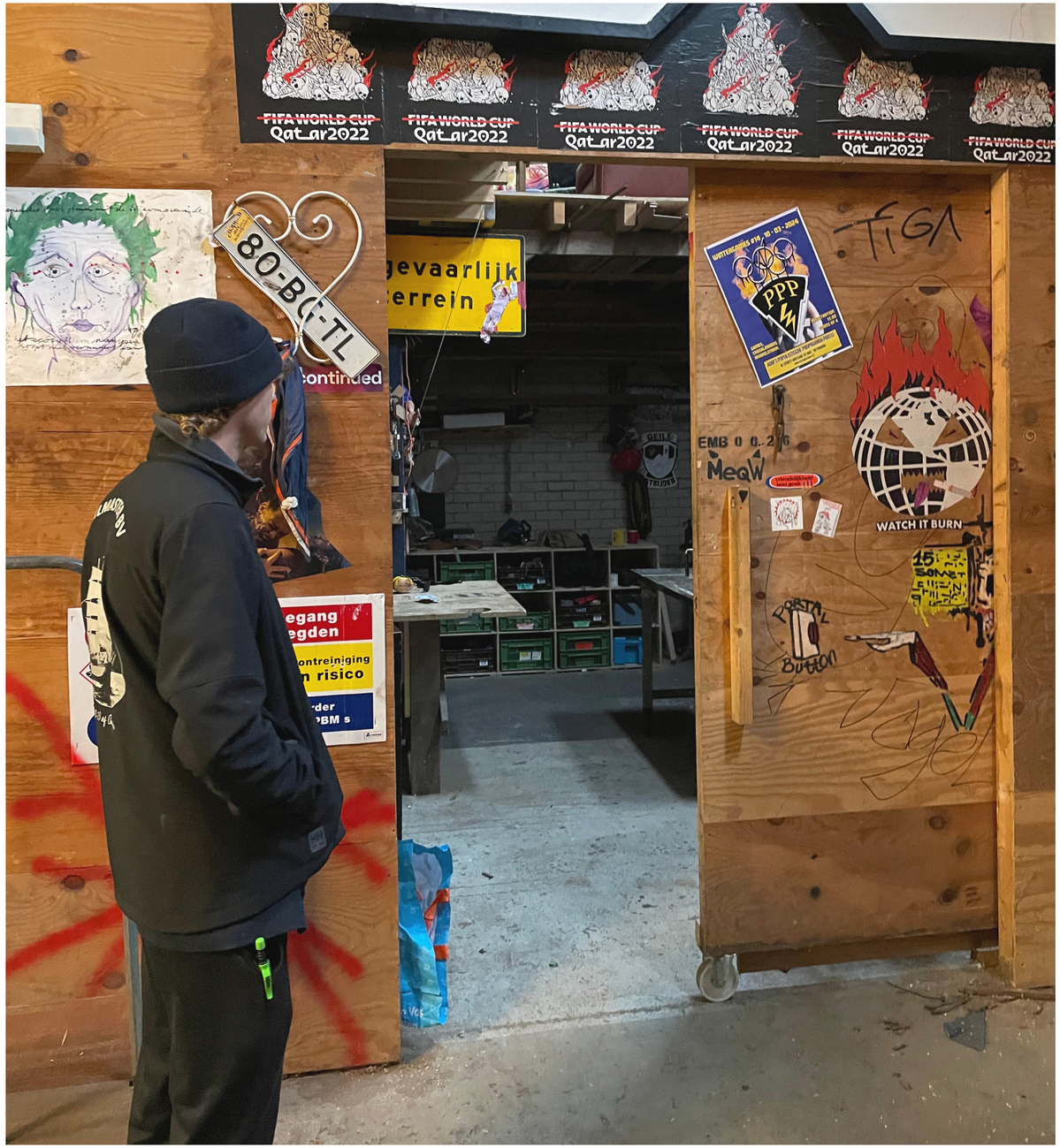
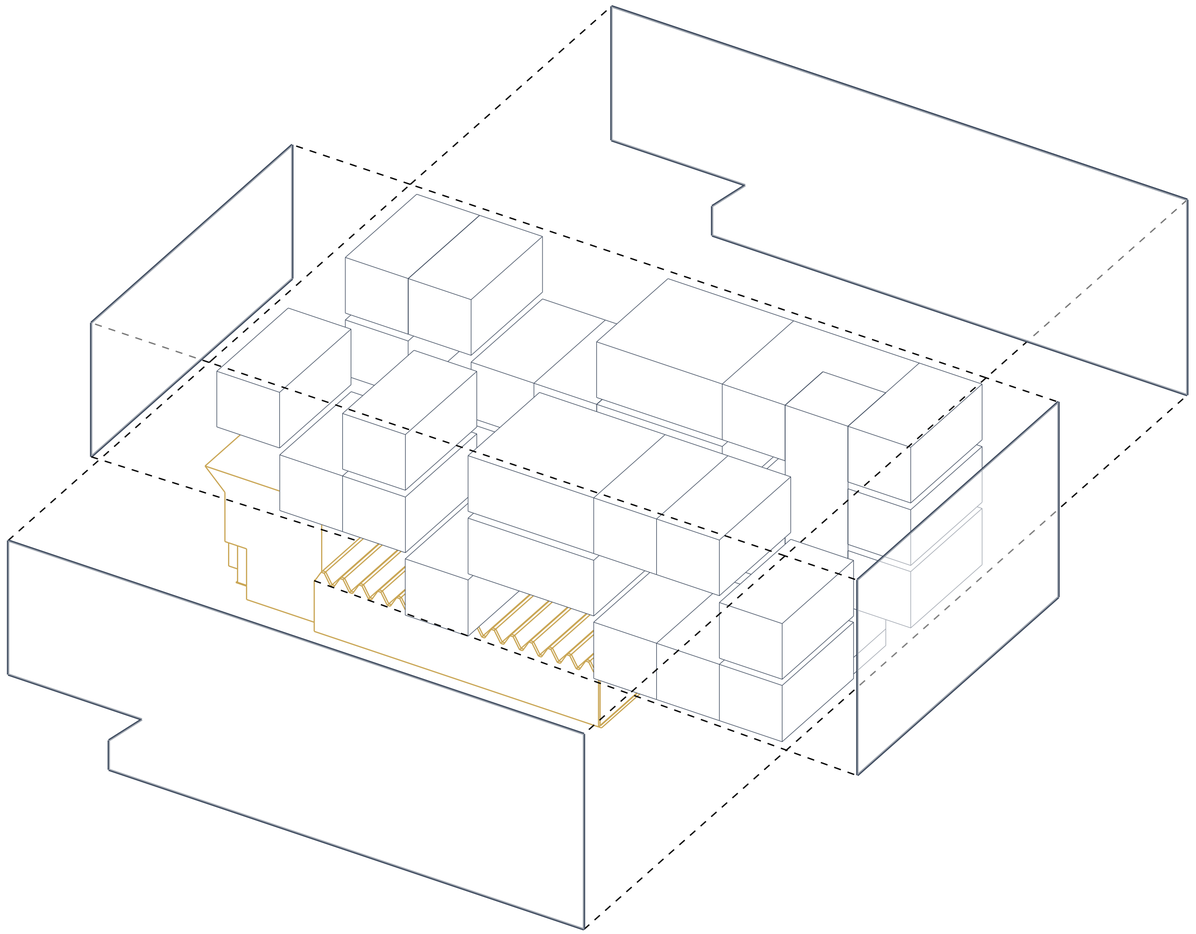




Appropriation



Skin.



Stuff≈ 7 years

Space plan ≈ 15 years

Skin ≈ 50 years

Systems ≈ 25 years

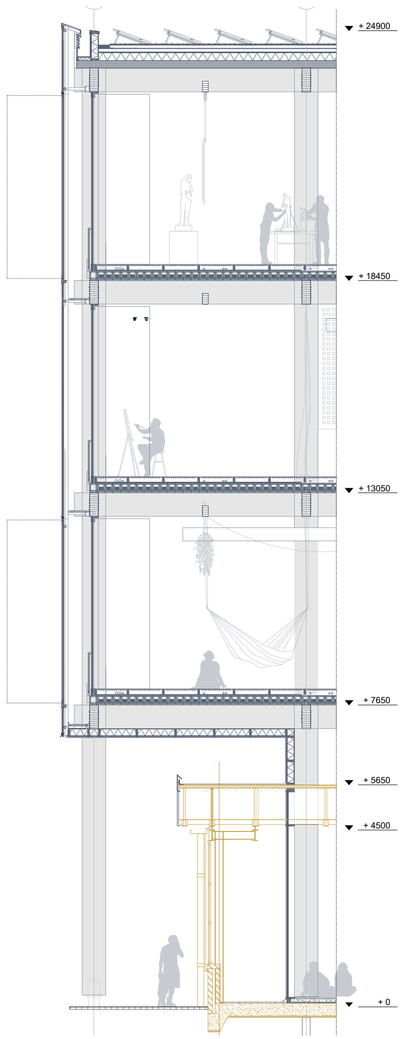
Structure > 200 years

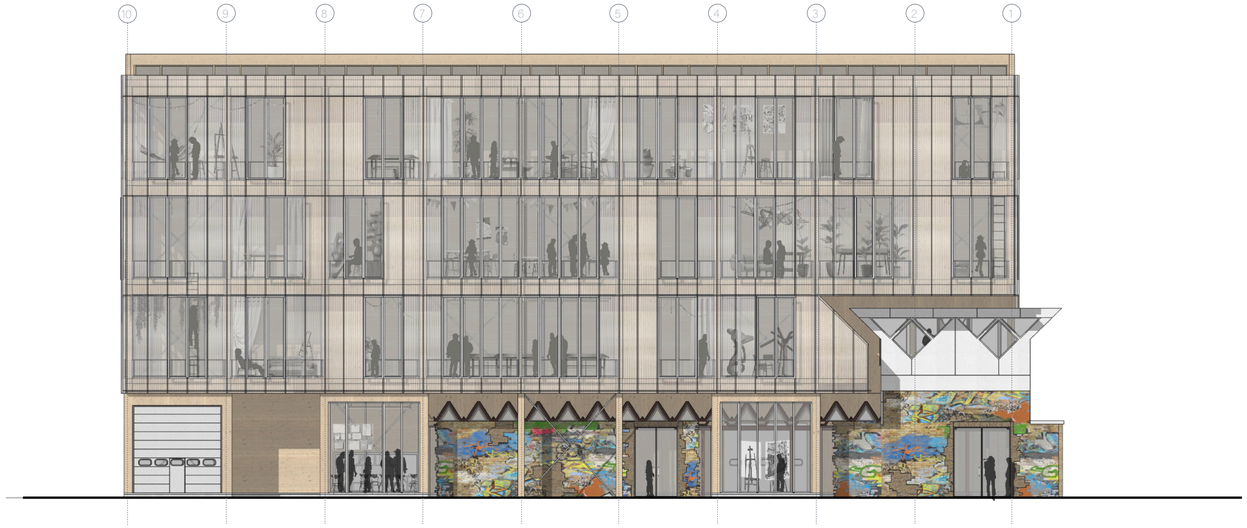
Legend
- Existing structure
- New structure



Appropriation







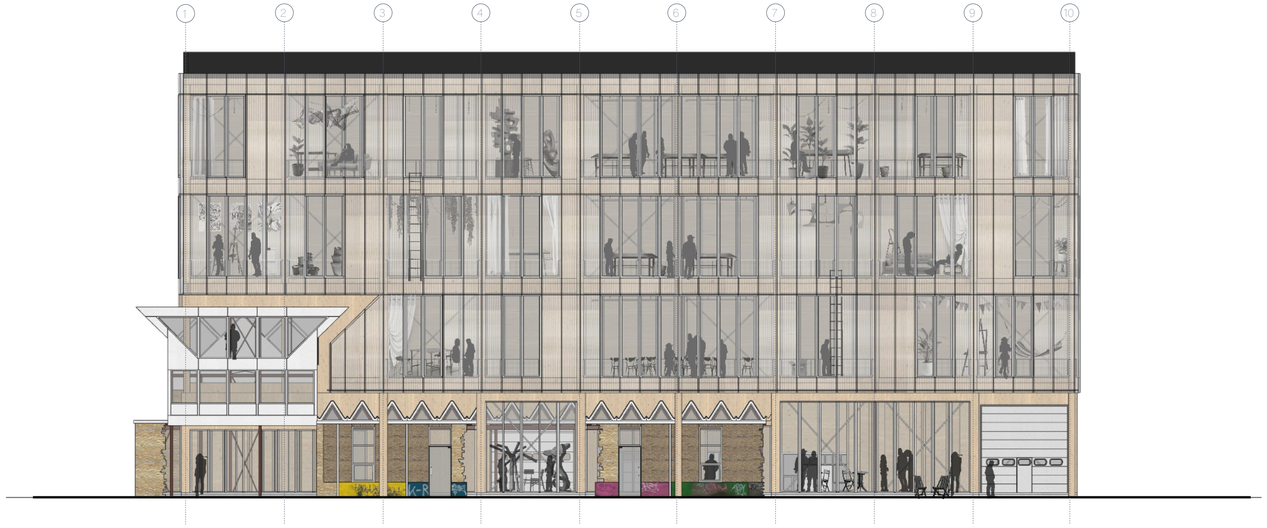


Table of contents.

01. Introduction.

02. Research.

03. Design.

04. Reflection.



Representation.



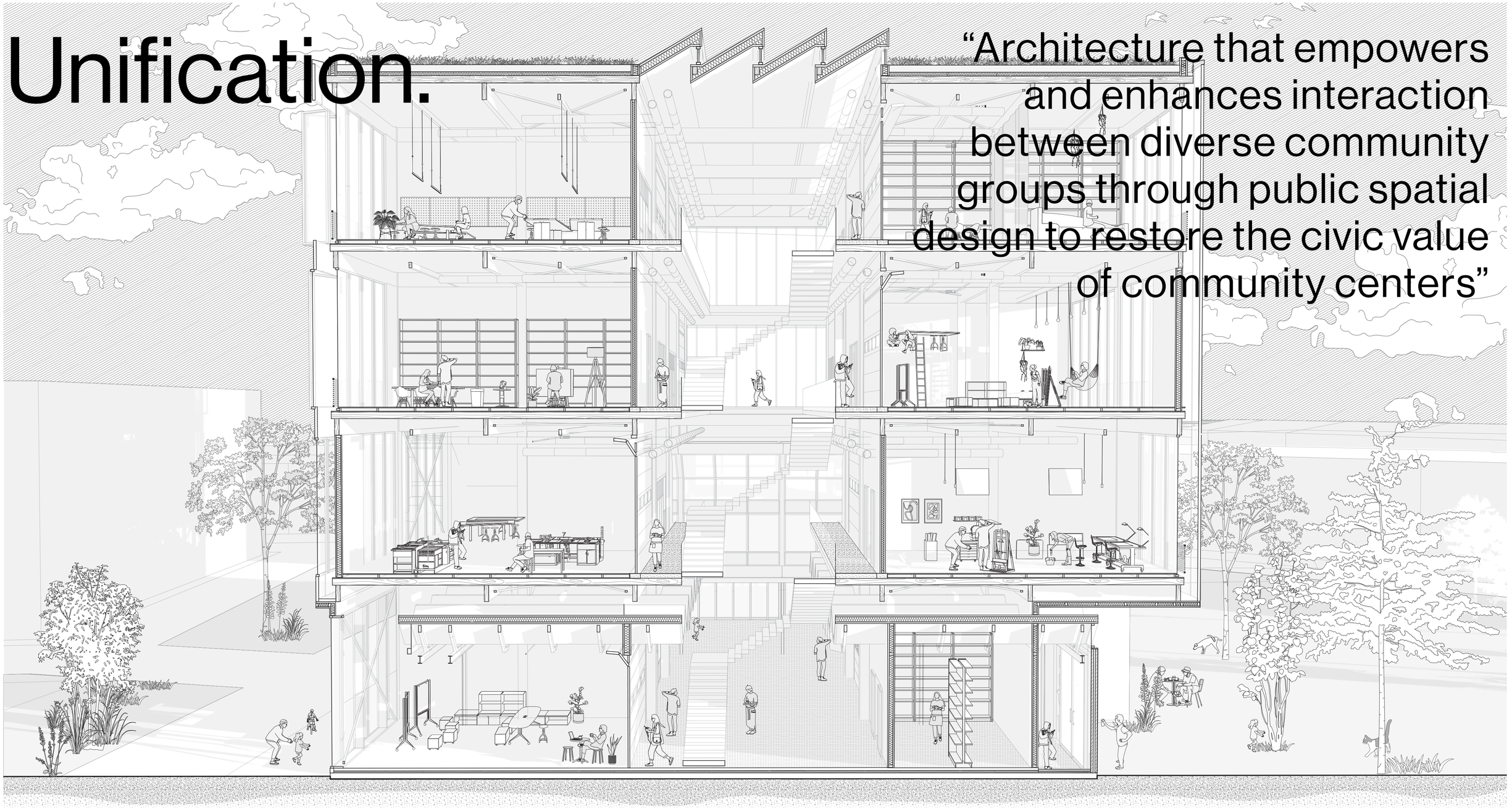
"Architecture that reflect the spatial histories of diverse local communities, to protect local heritage and promote social cohesion"

Representation.

"Architecture that reflect the spatial histories of diverse local communities, to protect local heritage and promote social cohesion"



Unification.

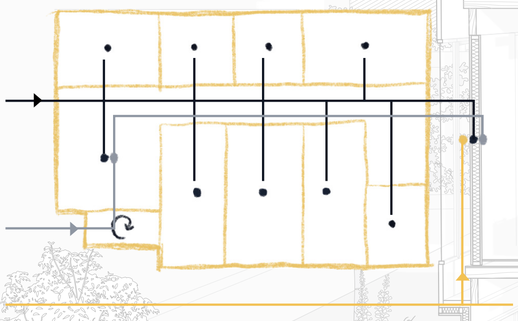


“Architecture that empowers and enhances interaction between diverse community groups through public spatial design to restore the civic value of community centers”

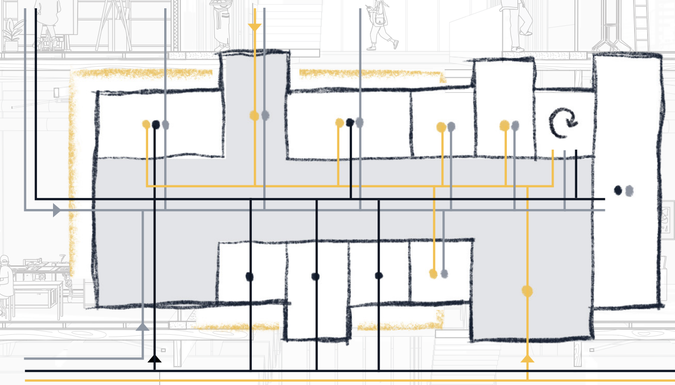
Unification.

"Architecture that empowers and enhances interaction between diverse community groups through public spatial design to restore the civic value of community centers"

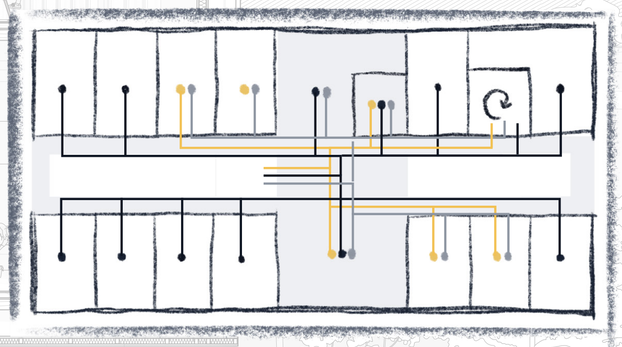
- Makers
- Residents
- Large-scale visitors



Current situation - Ground floor

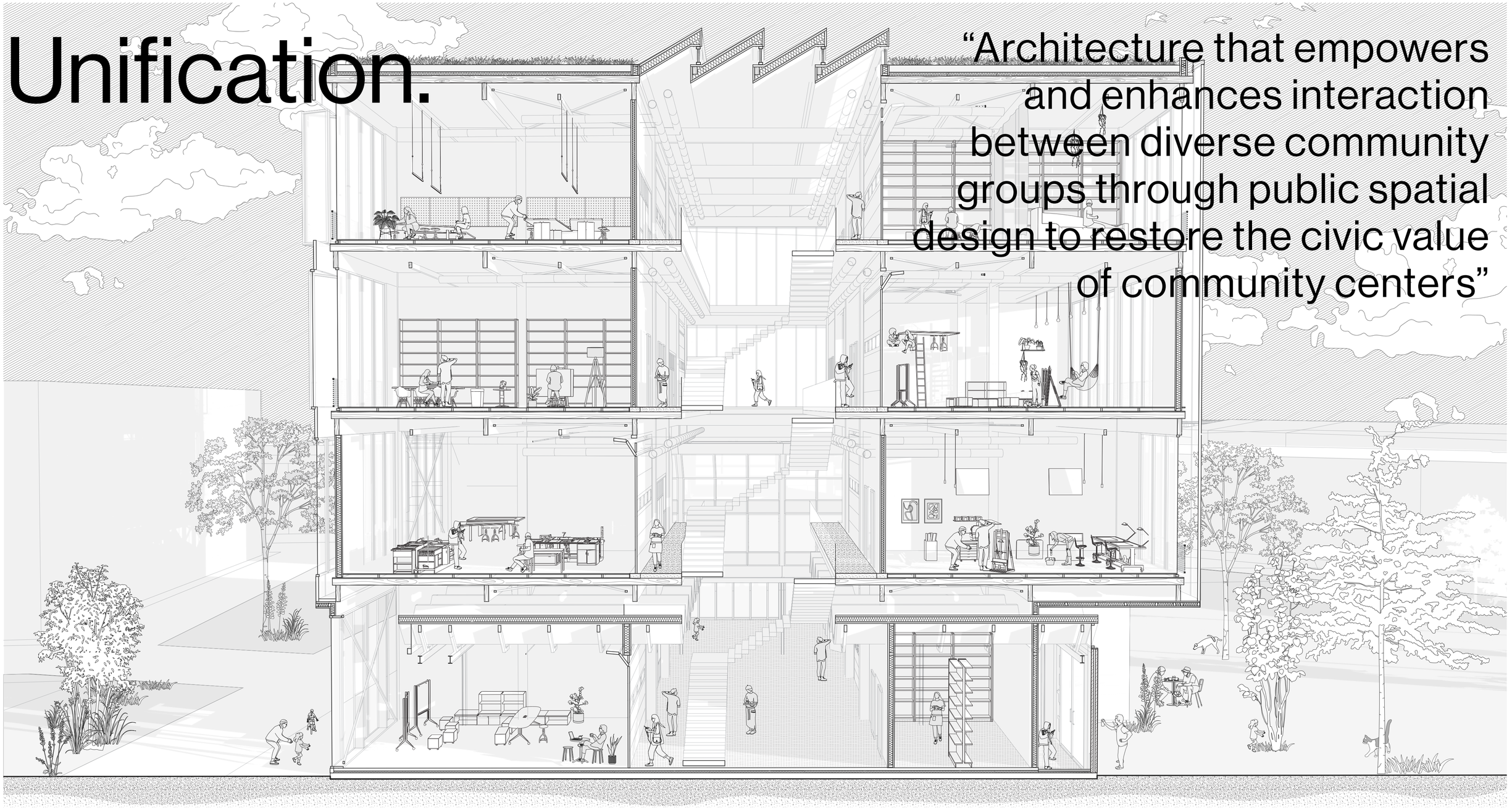


New situation - Ground floor



New situation - Top floors

Unification.



"Architecture that empowers and enhances interaction between diverse community groups through public spatial design to restore the civic value of community centers"

Appropriation.



"Architecture that offers guided freedom for user appropriation to reflect its creative heritage and empower makers communities"

Appropriation.

“Architecture that offers guided freedom for user appropriation to reflect its creative heritage and empower makers communities”



Appropriation.



"Architecture that offers guided freedom for user appropriation to reflect its creative heritage and empower makers communities"

Appropriation.

"Architecture that offers guided freedom for user appropriation to reflect its creative heritage and empower makers communities"





Adapting 20th century heritage
AR3AH105
Graduation

TU Delft
Departement of Architecture
2024 - 2025

Mentors
Chris de Vries
Lidwine Spoormans
Anèt Meijer

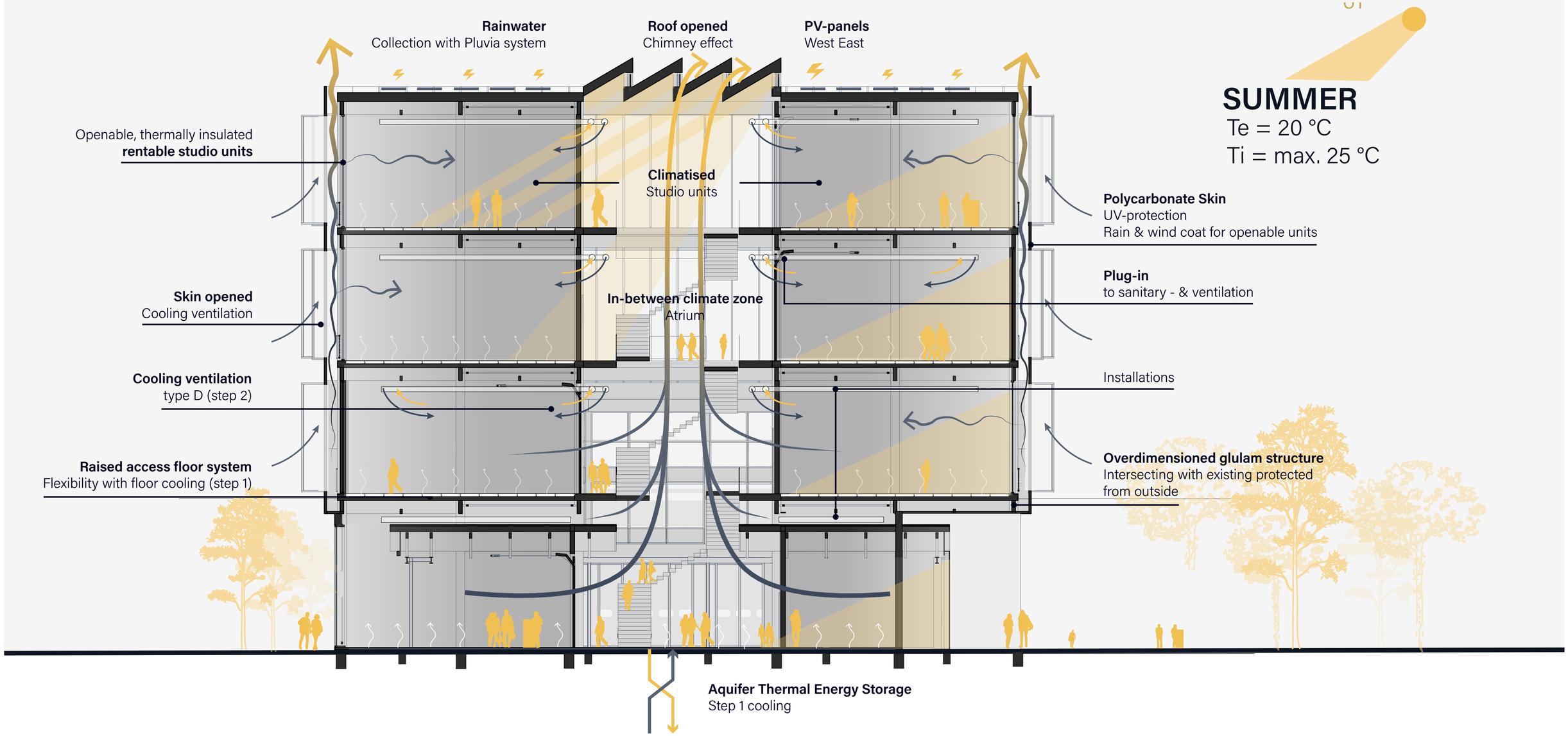
Layers of Belonging - “Onze Ruimte”

Thank you.

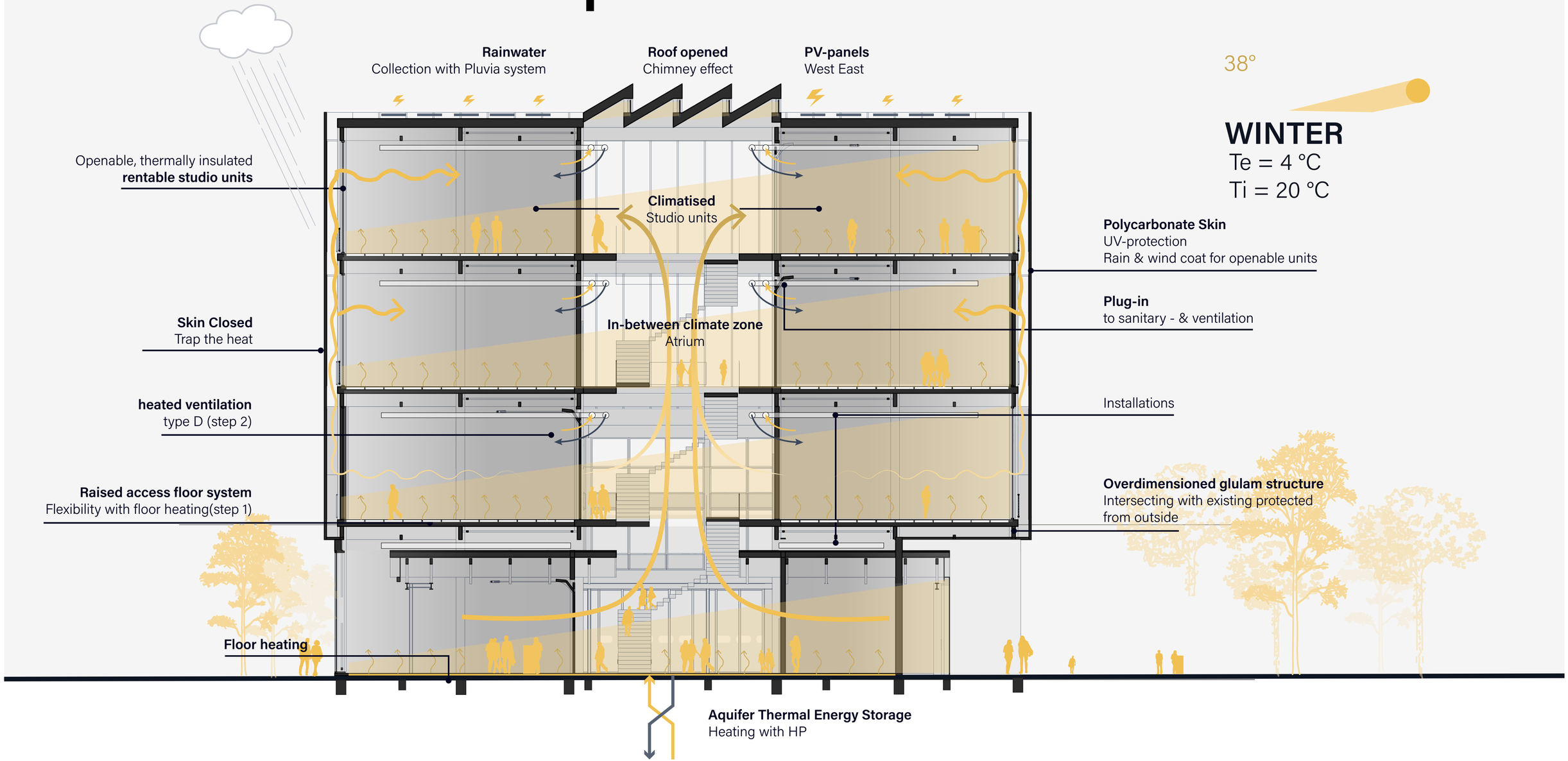
Annemijn de Potter
4999746

Appendix.

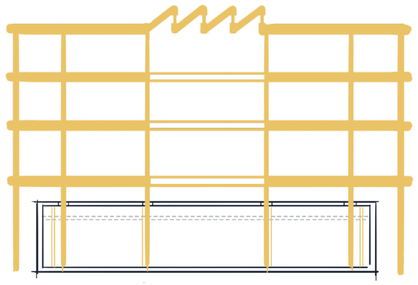
Climate concept.



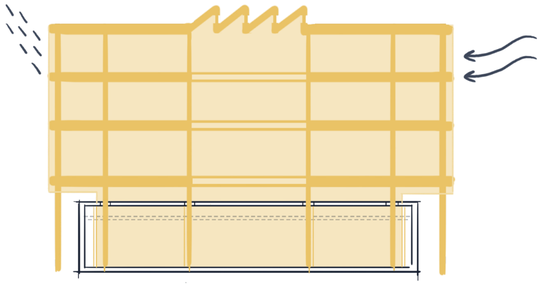
Climate concept.



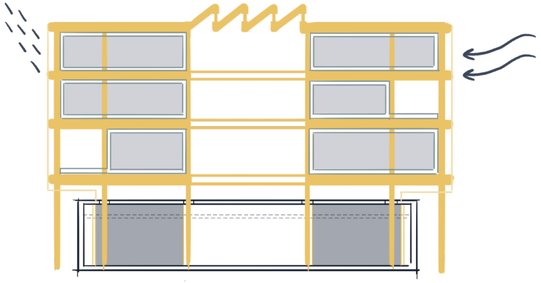
Transitional climate zones.



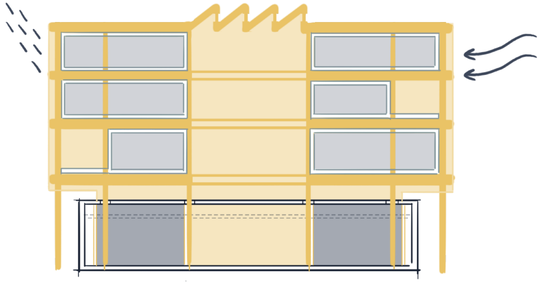
Kruising bestaand & nieuw



Wind- en regenjas
Passief klimatiseren



Geklimatiseerd
Wikihouse & begande grond



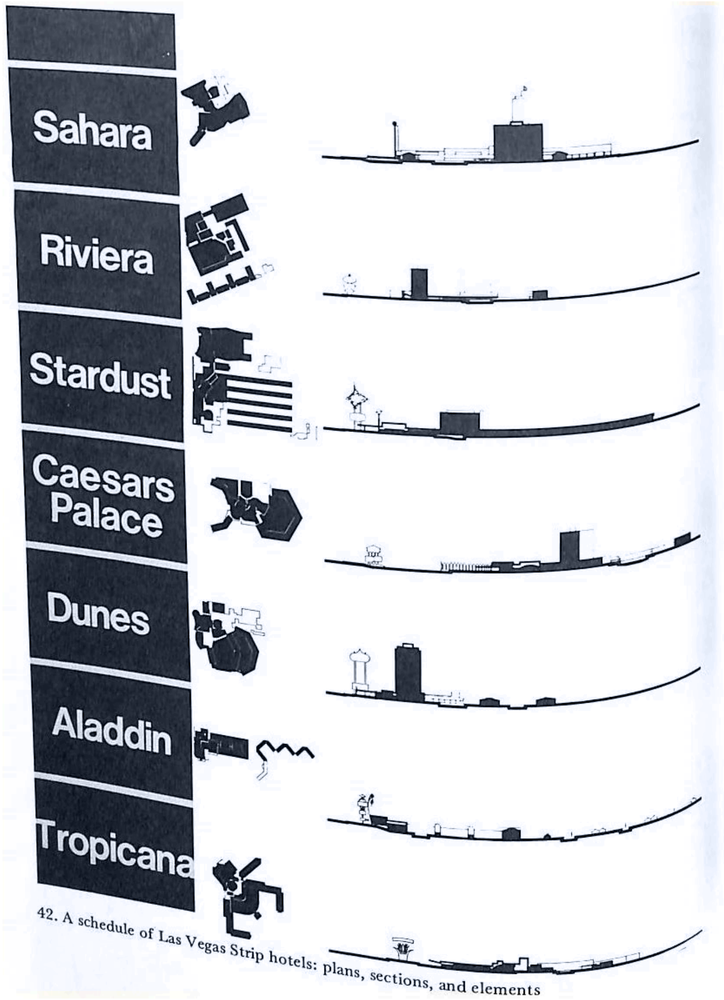
Samenkomst van tussenklimaten

“Which architectural elements and material design strategies can be implemented into the architectural design of a civic center in Amsterdam-North to reflect the identities associated with the history and socioeconomic transformations related to Buiksloterham?”

01. What is the historical development of Buiksloterham, Disteldorp, and Van der Pekbuurt, and how have these areas evolved in terms of socio-economic and demographic changes?

02. Which architectural elements and typologies, from cultural and historical significant buildings, represent the identities connected to Buiksloterham and could inspire the design of a civic center?

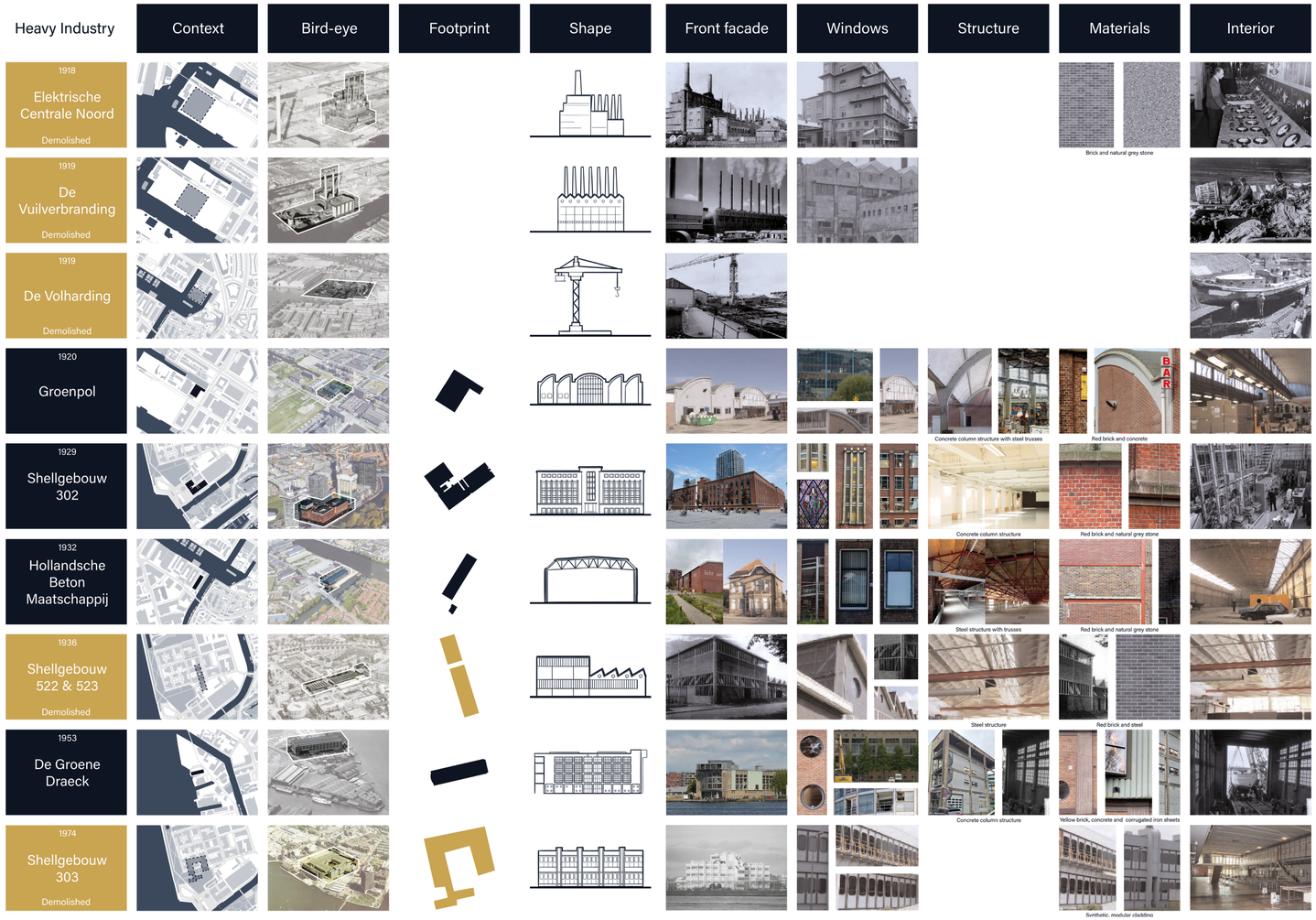
03. How can re-used architectural elements and material be practically and symbolically implemented into architectural design of a civic center?



42. A schedule of Las Vegas Strip hotels: plans, sections, and elements

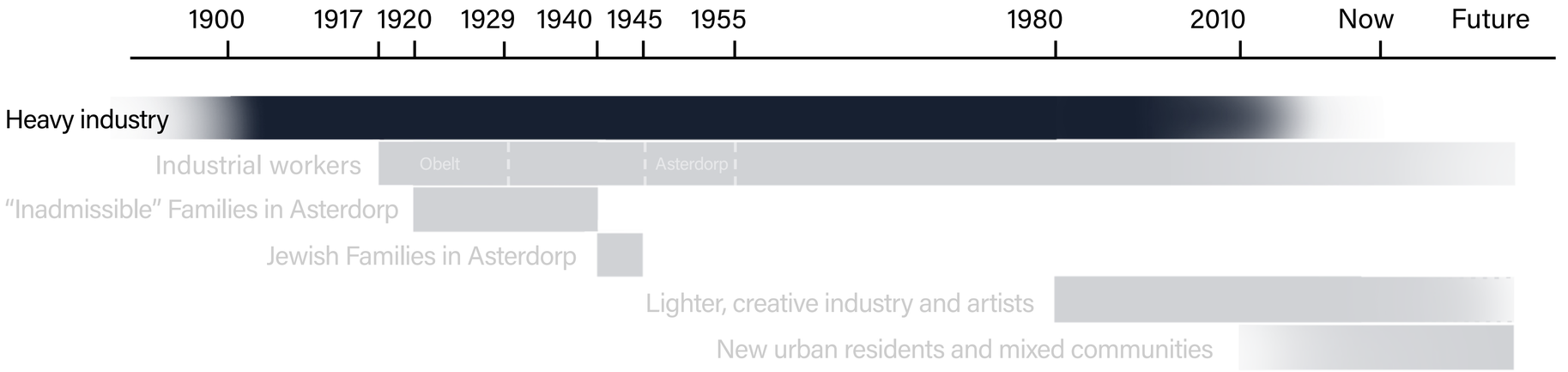


“Casino Chart“ (Venturi et al., 1972)



Venturi inspired matrix for “Haveay Insutrial“ identity (De Poyyet, 2024)

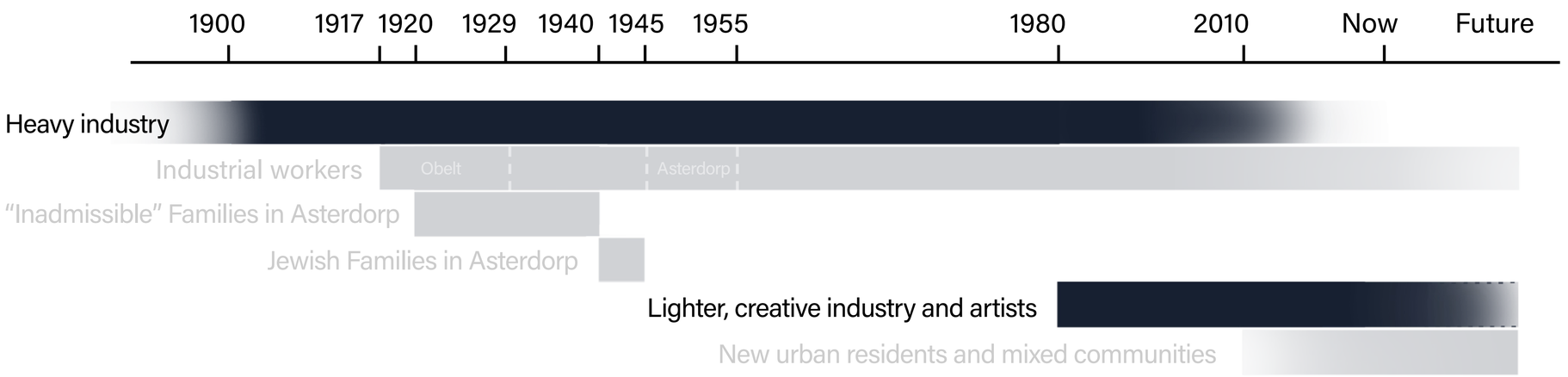
Heavy Industry.



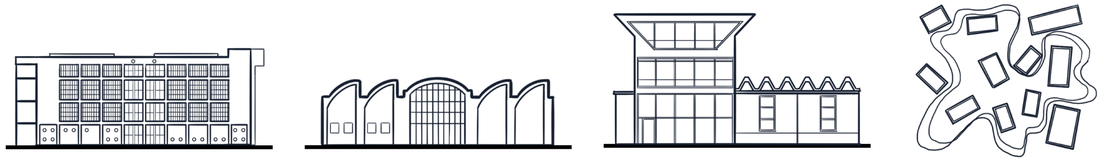
Timeline showing the different groups that inhabited and utilized Buiksloterham since its establishment (De Potter, 2014)



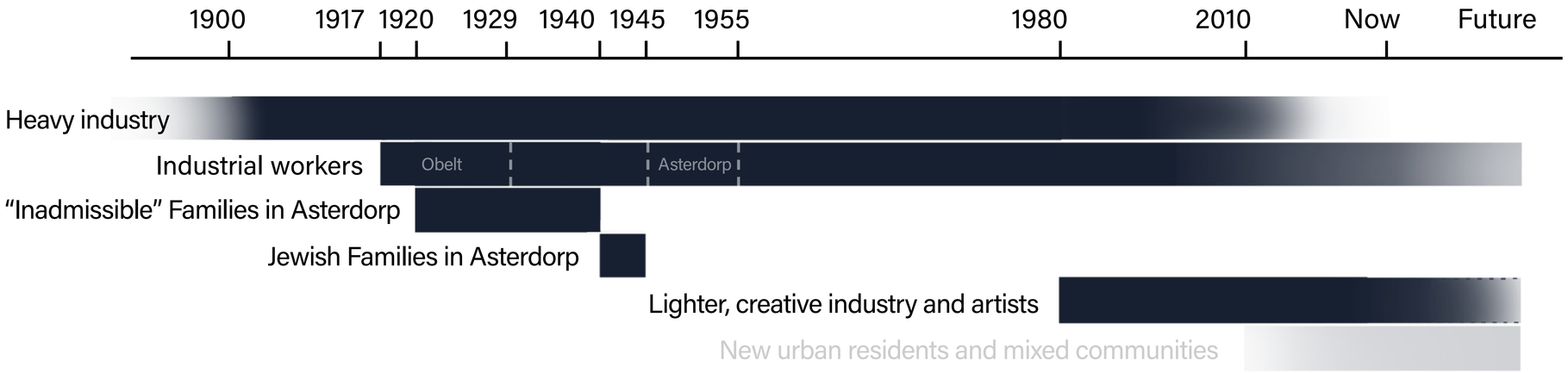
Light Makers Industry.



Timeline showing the different groups that inhabited and utilized Buiksloterham since its establishment (De Potter, 2014)



Working-Class Neighbourhoods.

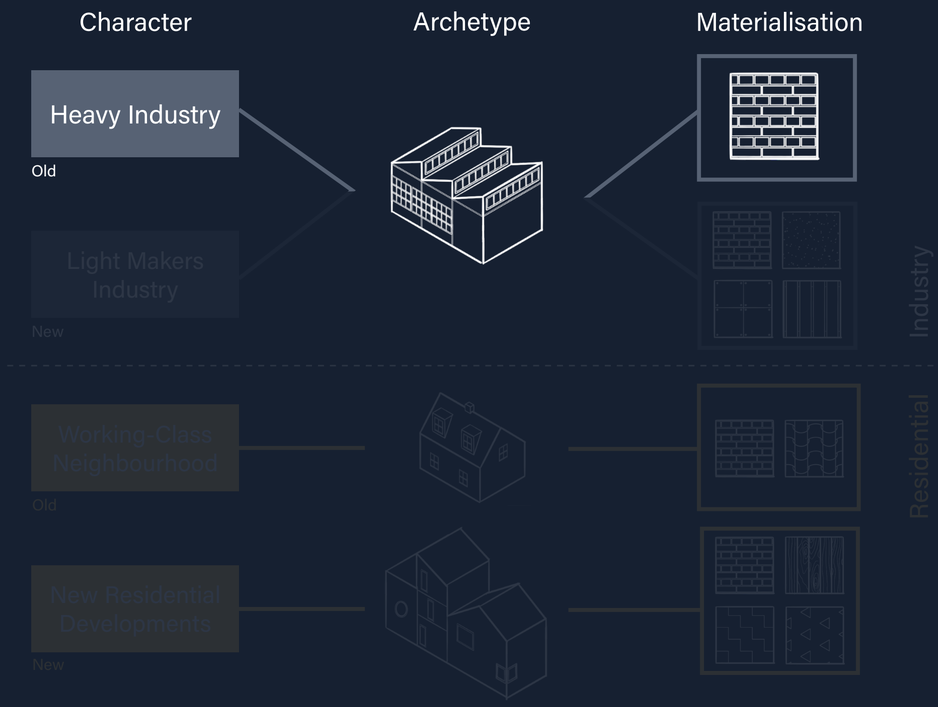


Timeline showing the different groups that inhabited and utilized Buiksloterham since its establishment (De Potter, 2014)



Heavy Industry.



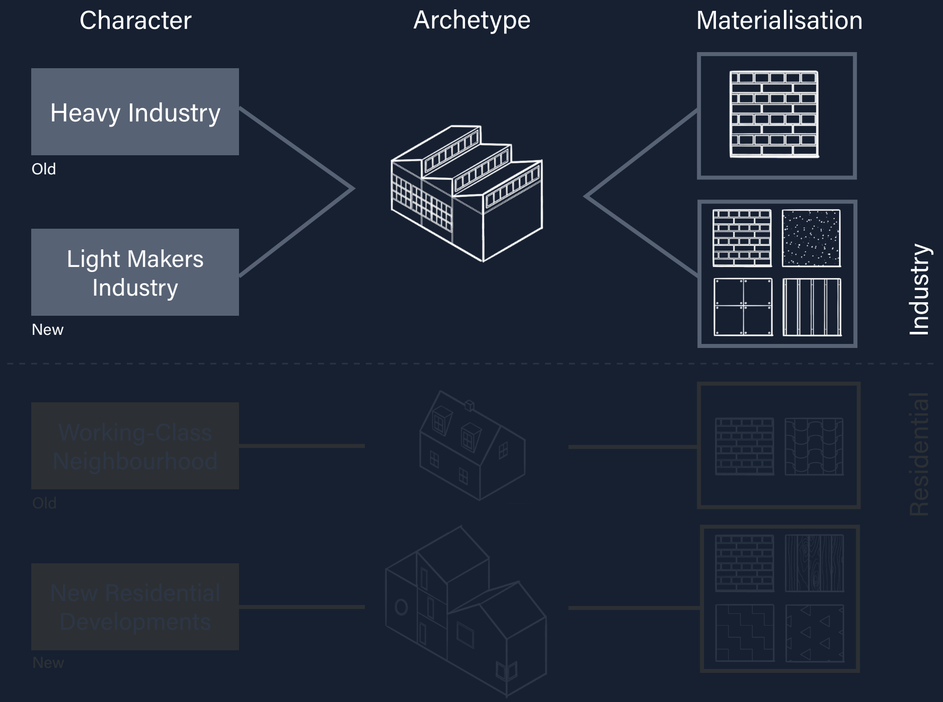


Overview of distilled key architectural elements per identified identity group of Buiksloterham (De Potter, 2025)

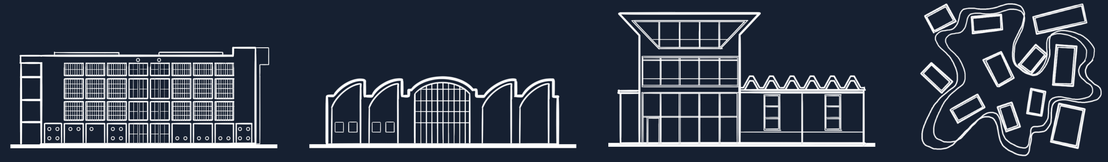


Light Makers Industry.



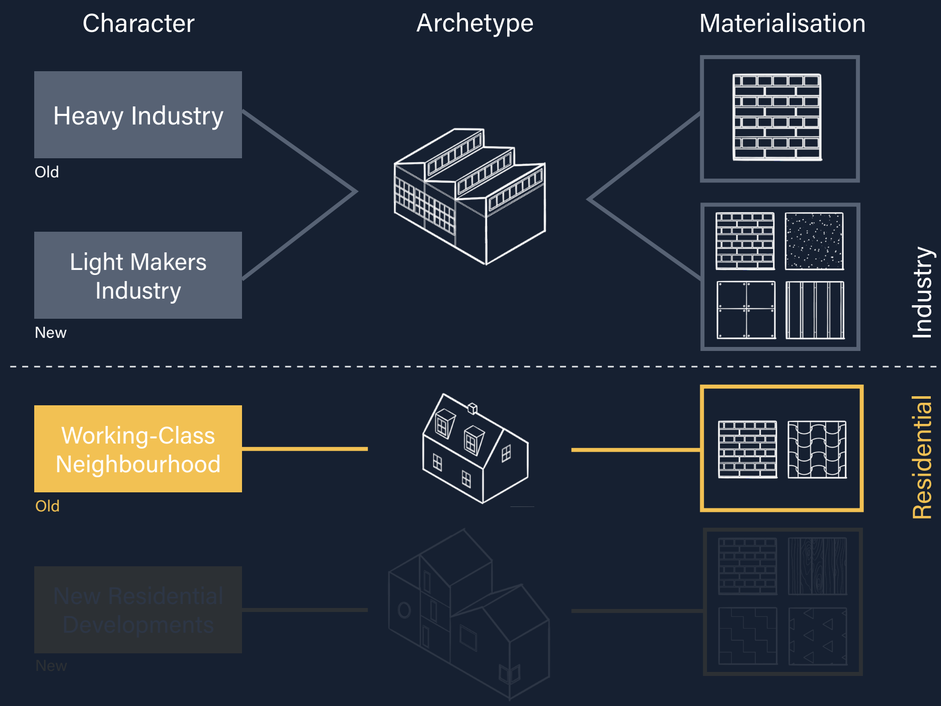


Overview of distilled key architectural elements per identified identity group of Buiksloterham (De Potter, 2025)



Working-Class Neighbourhoods.

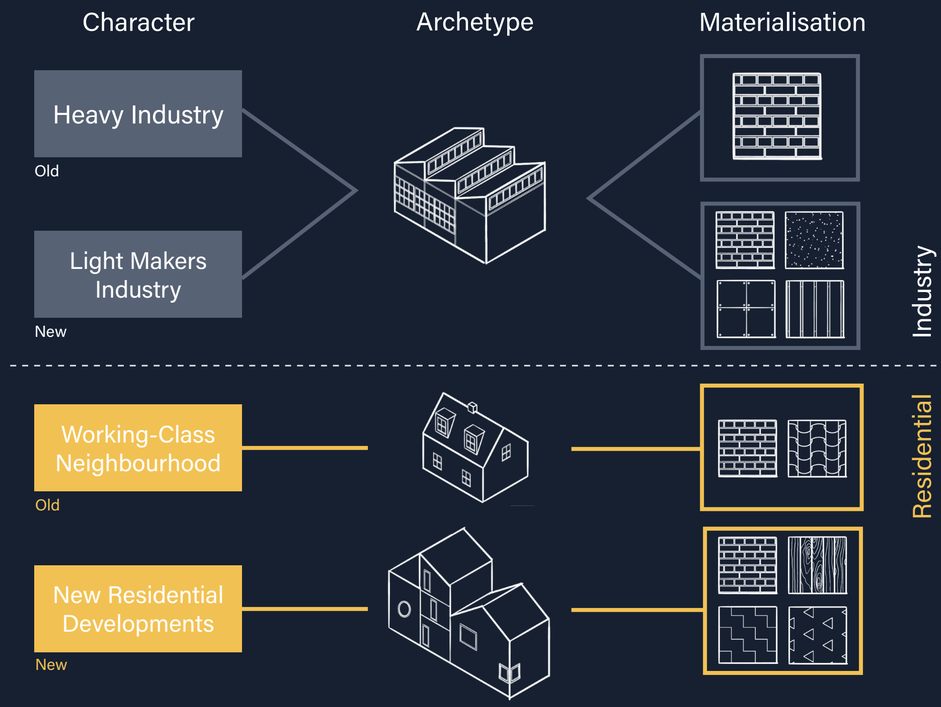




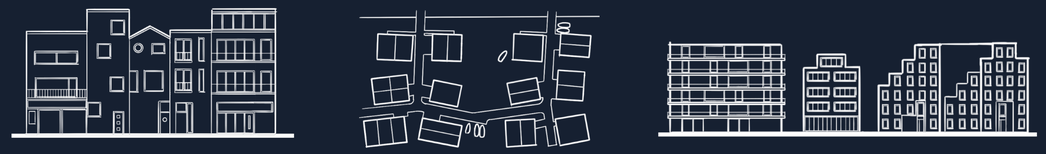
Overview of distilled key architectural elements per identified identity group of Buiksloterham (De Potter, 2025)

New Residential Developments.





Overview of distilled key architectural elements per identified identity group of Buiksloterham (De Potter, 2025)



Lleialtat Santsenca.

Adaptive reuse



Lleialtat Santsenca civic center, Barcelona, H Architects (Santibañez, z.d.)

Visible material reuse



Kamikatz Public House, Japan, NAP (Castro, 2021)

Temporary reuse



Raum, Utrecht, Overtreders W (Overtreders W, z.d.)

Lleialtat Santsenca.

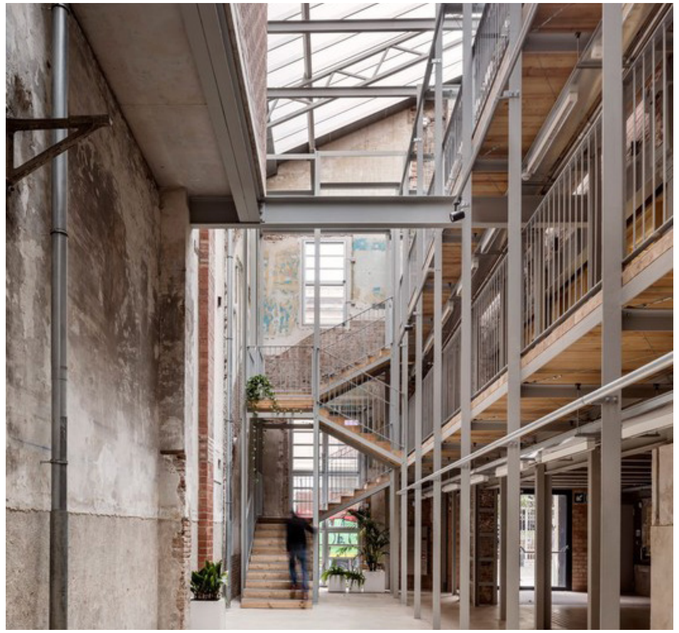
Adaptive reuse



Lleialtat Santsenca civic center, Barcelona, H Architects (Santibañez, z.d.)



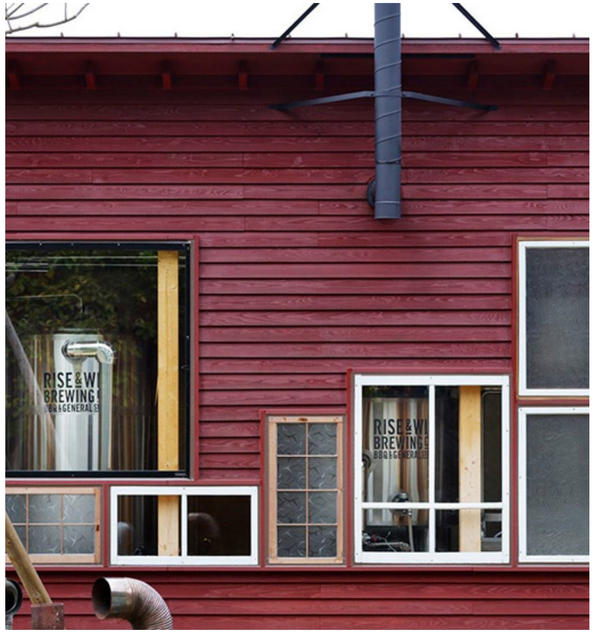
(Santibañez, z.d.)



(Santibañez, z.d.)

Kamikatz Public House.

Visible material reuse



Lleialtat Santsenca civic center, Barcelona, H Architects (Santibañez, z.d.)



Kamikatz Public House, Japan, NAP (Castro, 2021)



Raum, Utrecht, Overtreders W (Overtreders W, z.d.)

Raum.

Temporary reuse



Lleialtat Santsenca civic center, Barcelona, H Architects (Santibañez, z.d.)



Kamikatz Public House, Japan, NAP (Castro, 2021)



Raum, Utrecht, Overtreders W (Overtreders W, z.d.)

Conclusion - How.

Symbolism

History	*Lleialtat Santsenca*
Typology	
Sustainability	*Raum*
	Kamikatz Public House
Temporality	*Raum*
Community	*Lleialtat Santsenca*
	Kamikatz Public House

Harvest scale

Building	*Lleialtat Santsencas*
Area	*Kamikatz Public House*
National	*Raum*
Global	

Material scale

Material	*Raum*
	Kamikatz Public House
Element	*Kamikatz Public House*
Building	*Lleialtat Santsenca*

Demographics.

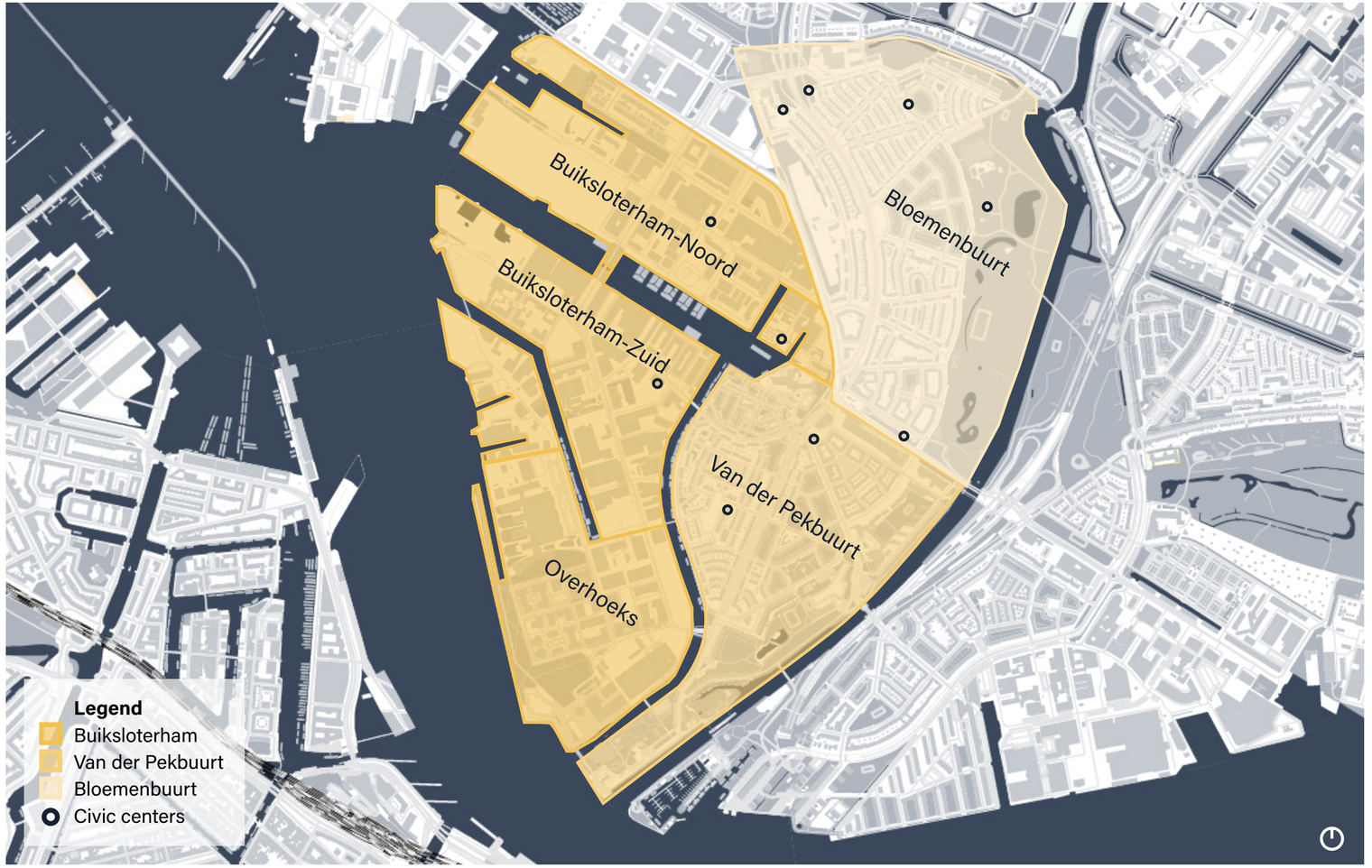
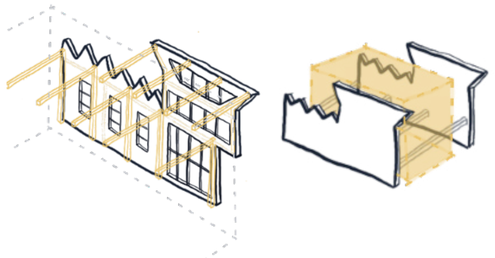


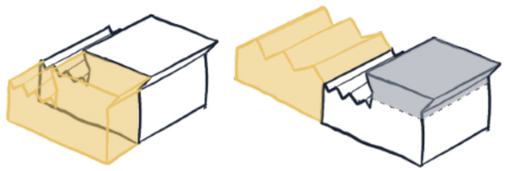
Figure 12 - *Distinction of neighborhoods within Buiksloterham, based on the CBS data, illustrated by the author*

First design experiment.

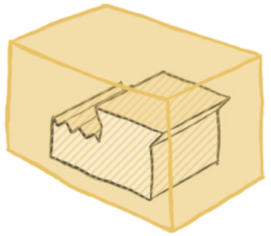
1 - **Eliminate**



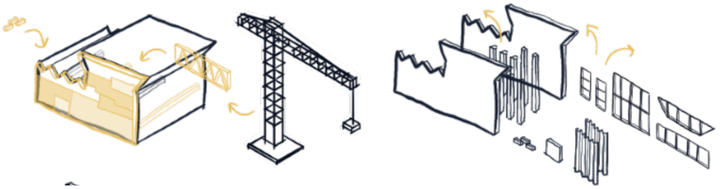
2 - **Continue**



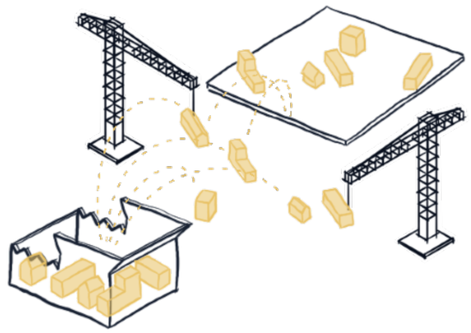
3 - **Hiding**



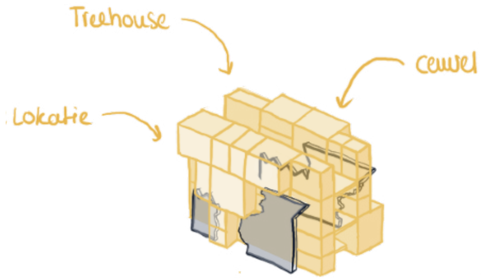
4 - **Reconfigure**



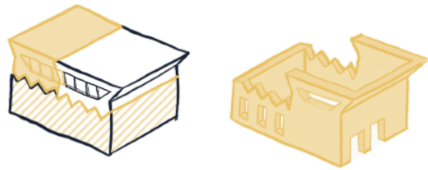
5 - **Repurpose**



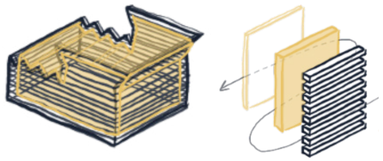
6 - **Densify**



7 - **Copy**



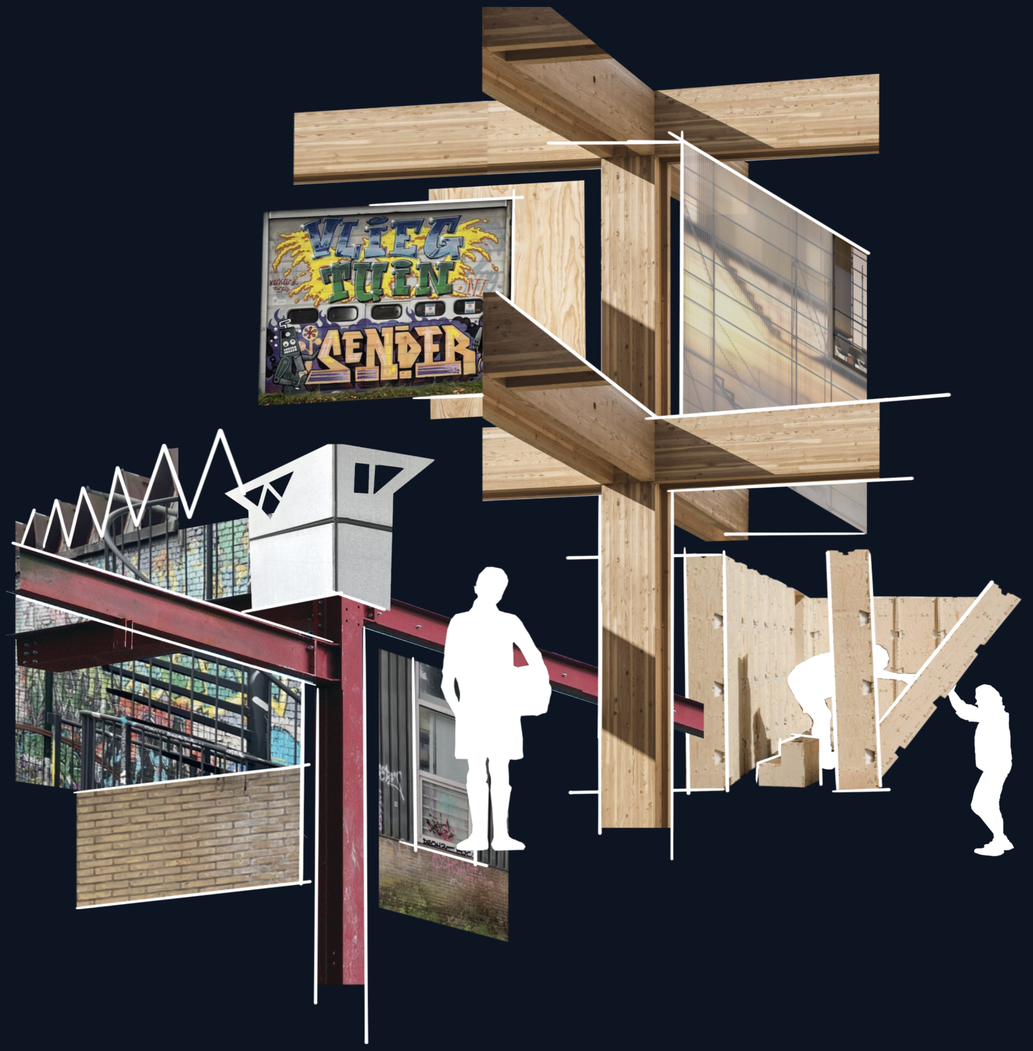
8 - **Overlay**



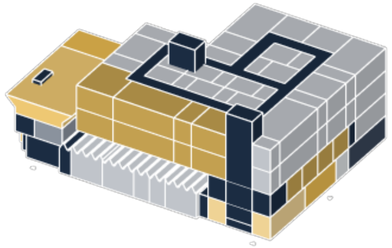
Civicness.

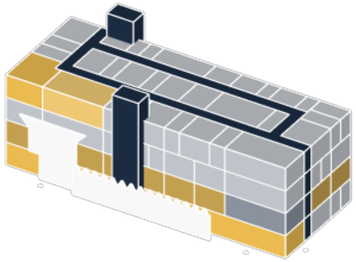
Civicness is about feeling connected to your community. It’s a sense of shared ownership, responsibility, and pride in a place. It makes you feel included and encourages interactions between diverse people..

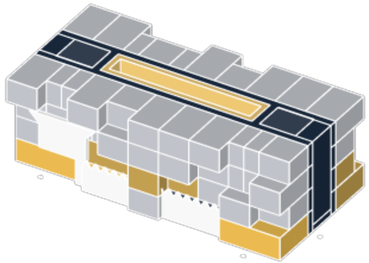
Synthesis of materials.



Mass studies.





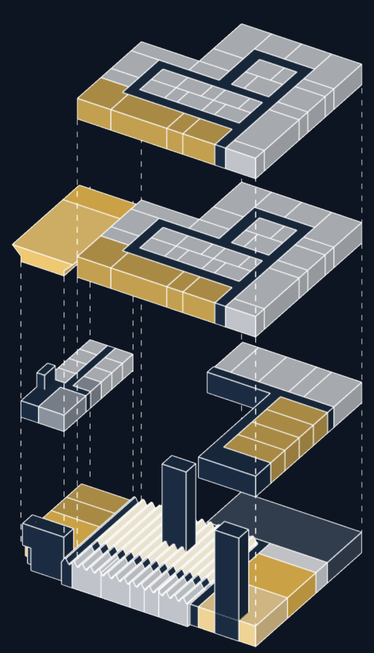




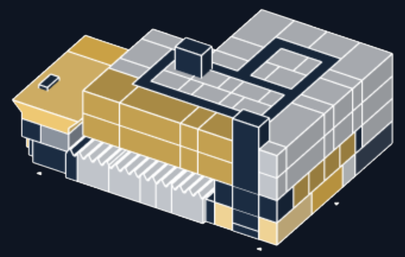


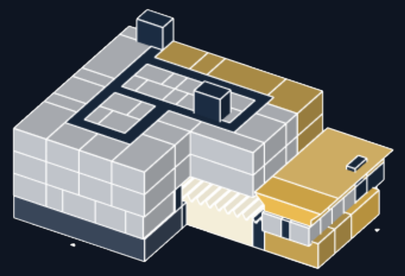


Mass studies.

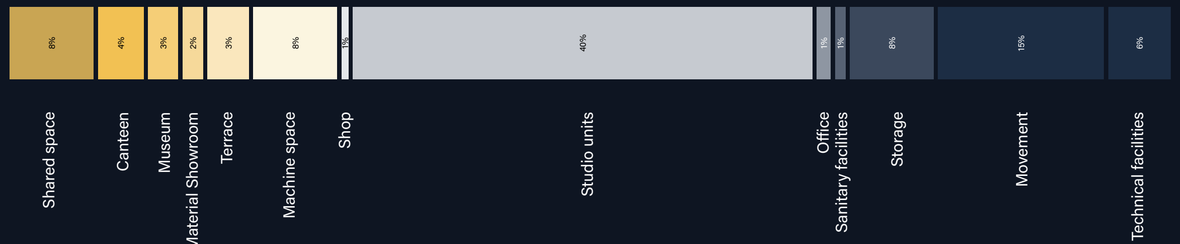




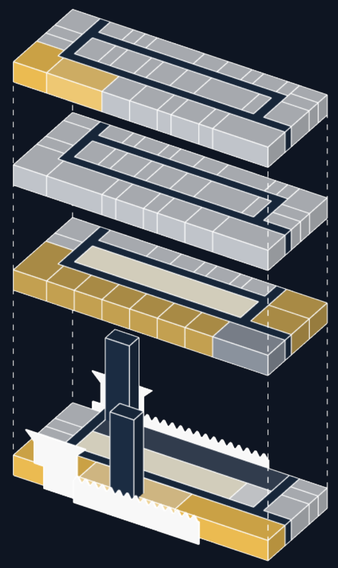




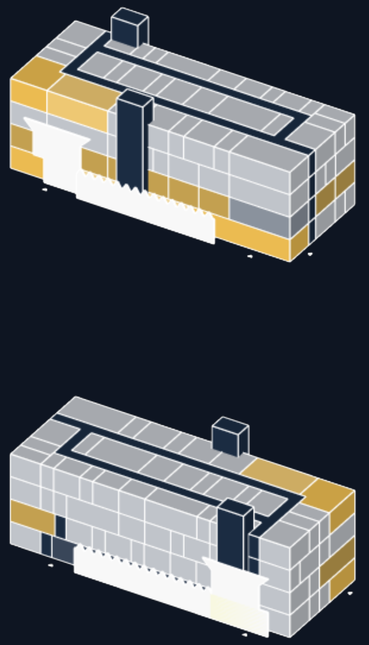




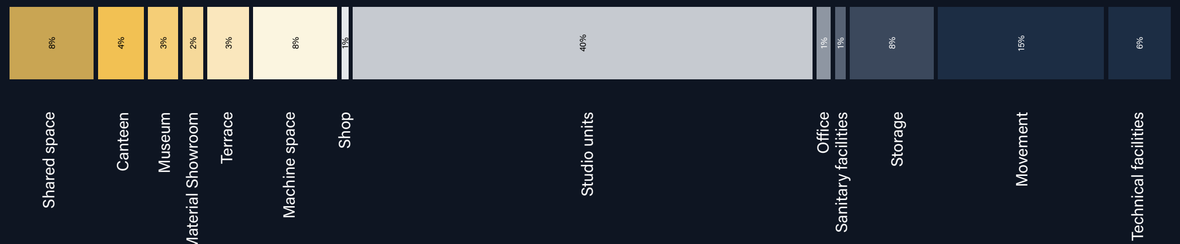
Mass studies.



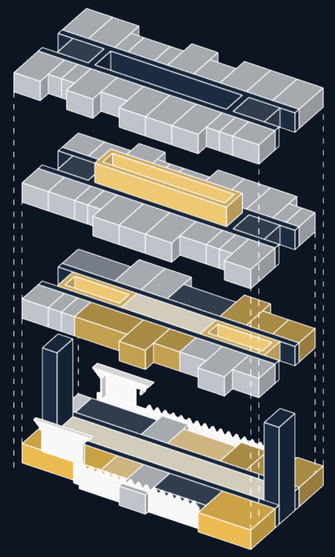




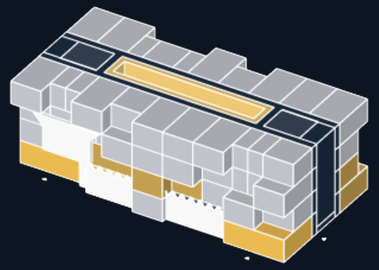


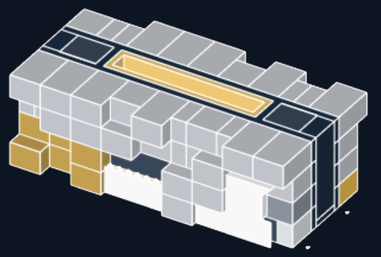


Mass studies.

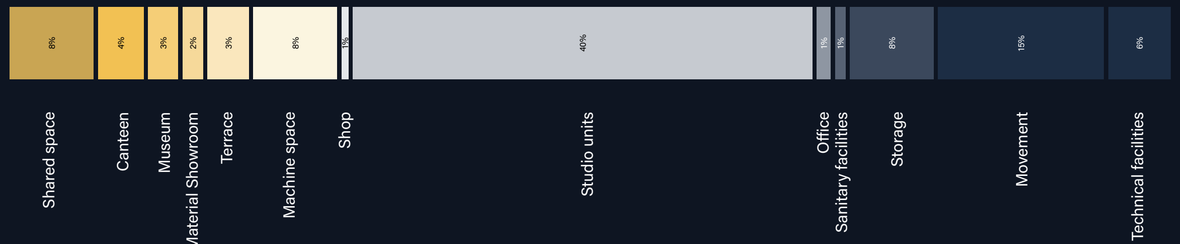








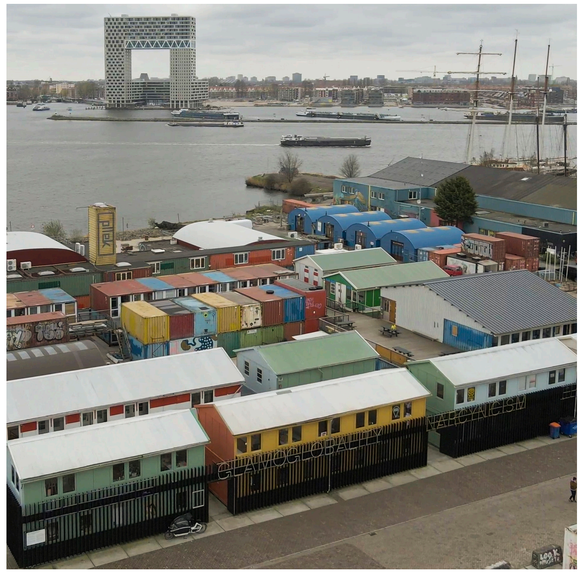




Typology research.



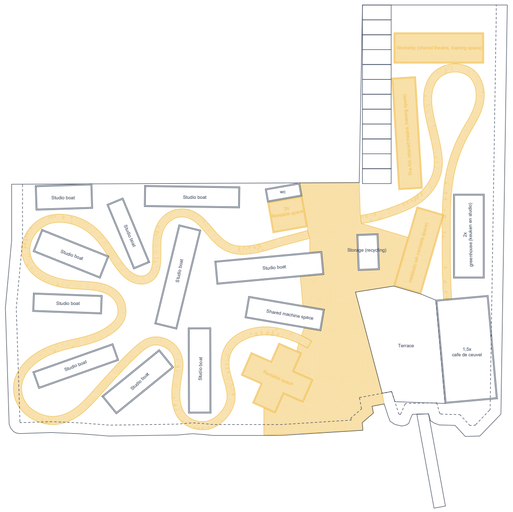
NDSM Treehouse - Creative hub & Civic Center





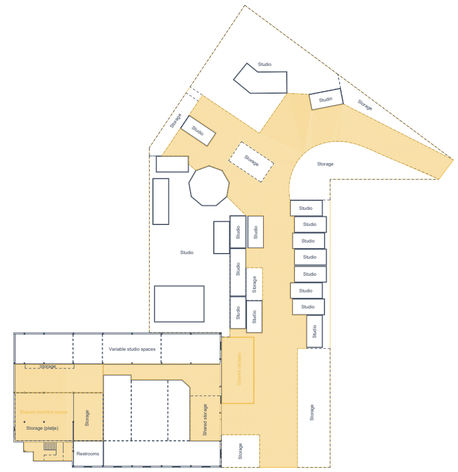
Openbare Werkplaats - Material Bank





De Ceuvel - Creative hub & Civic Center





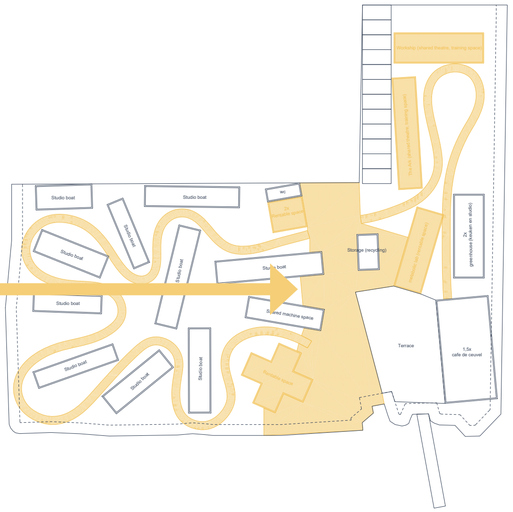
De Vliegtuin - Creative hub



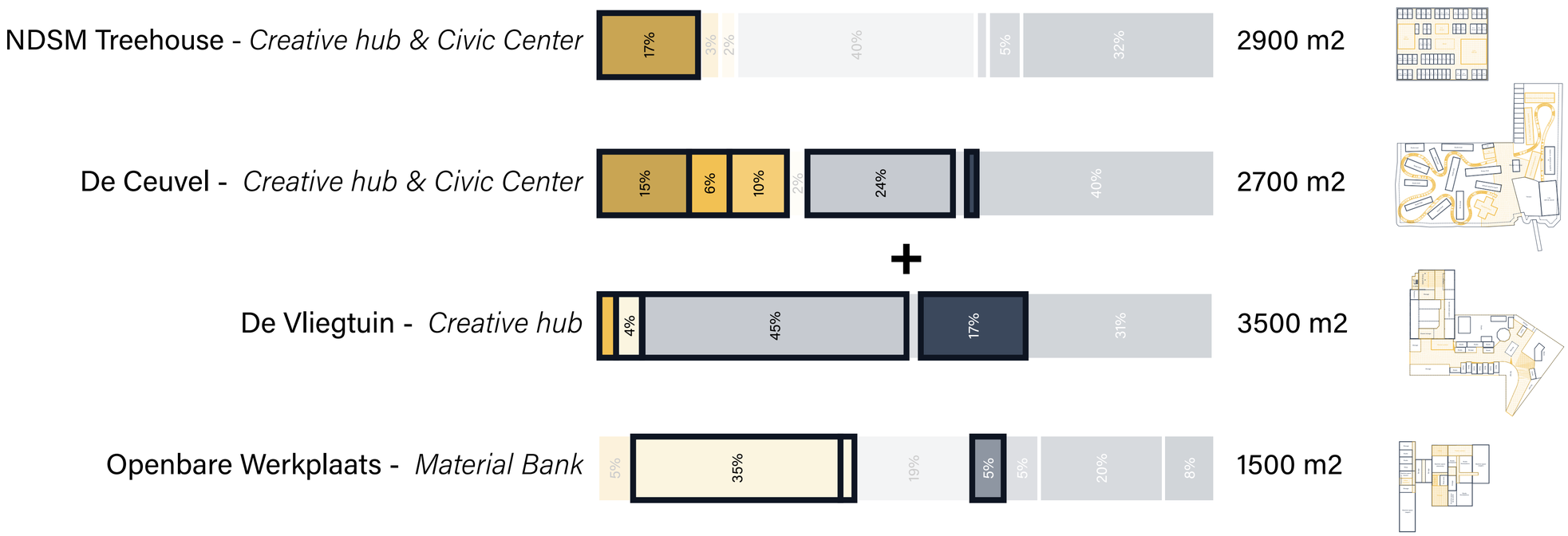
Typology research.

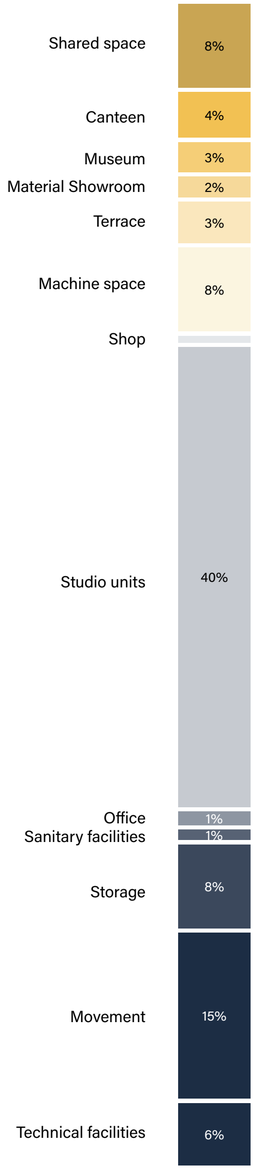
Mixed residents
Civic center

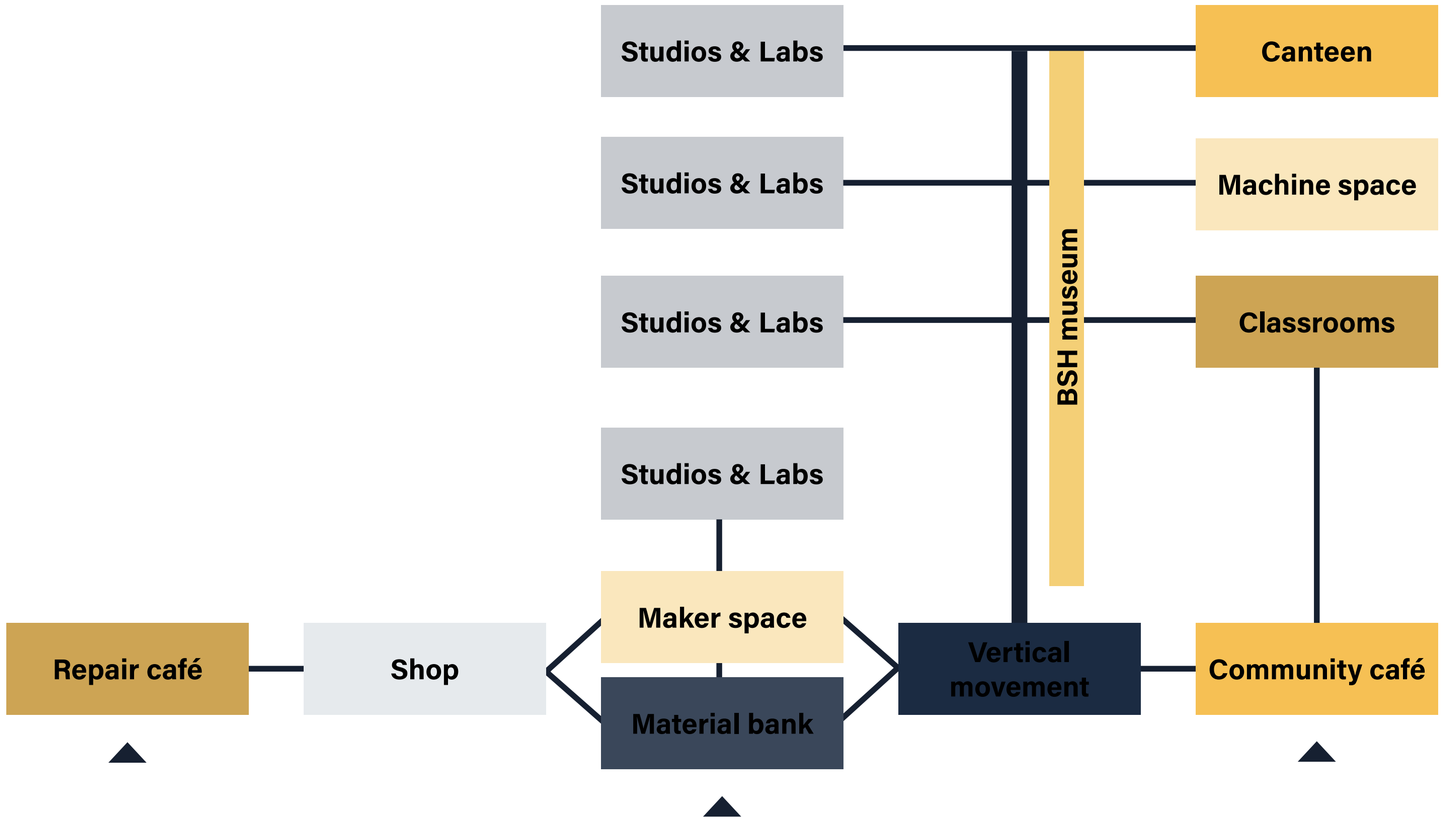


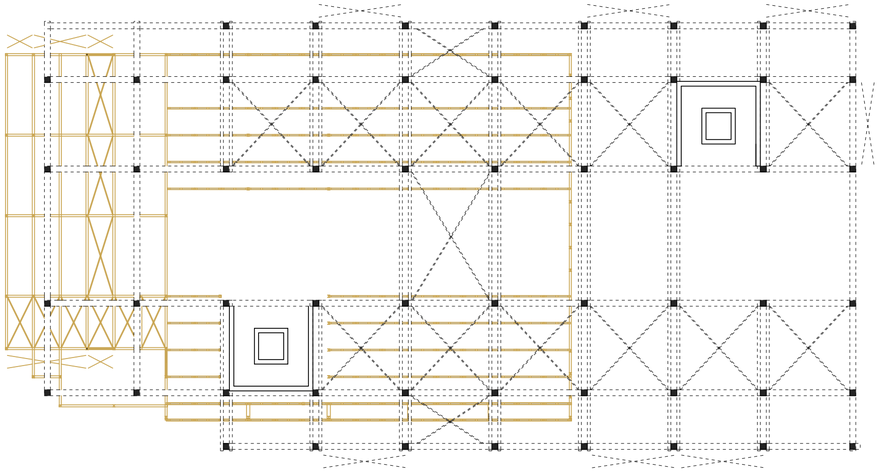

Studio boat
Studio boat
Studio boat

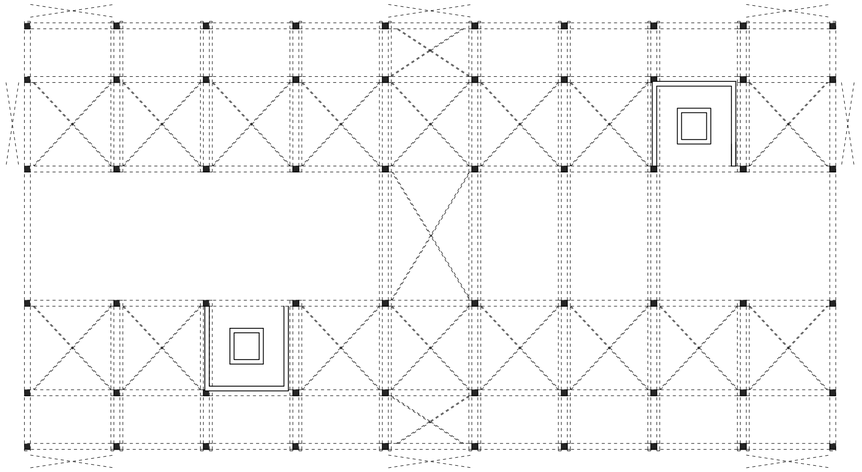
Programmatic output.

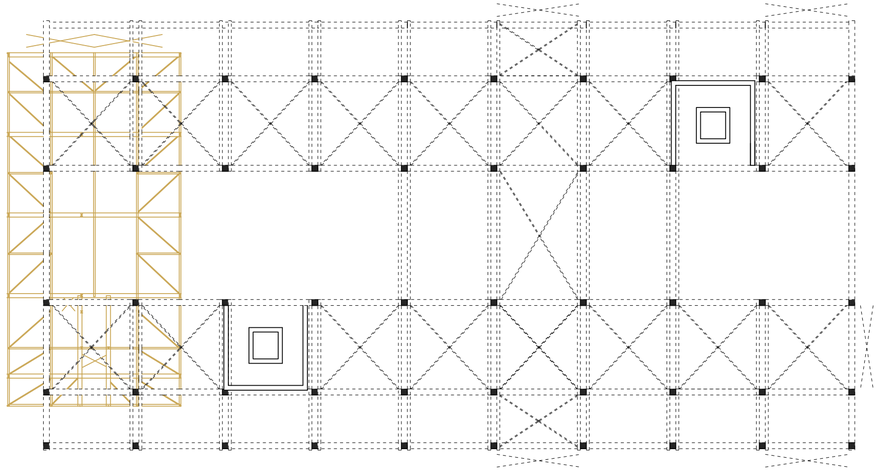


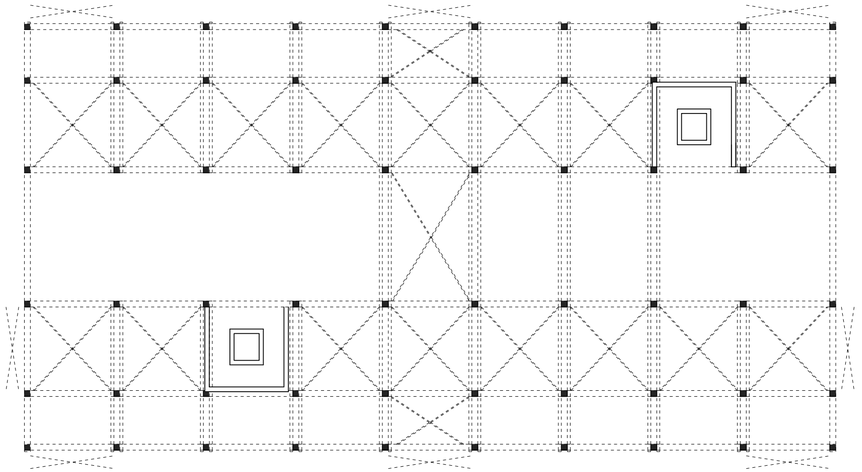

Shared space
8%
Canteen
4%
Museum
3%
Material Showroom
2%
Terrace
3%
Machine space
8%
Shop
Studio units
40%
Office
1%
Sanitary facilities
1%
Storage
8%
Movement
15%
Technical facilities
6%

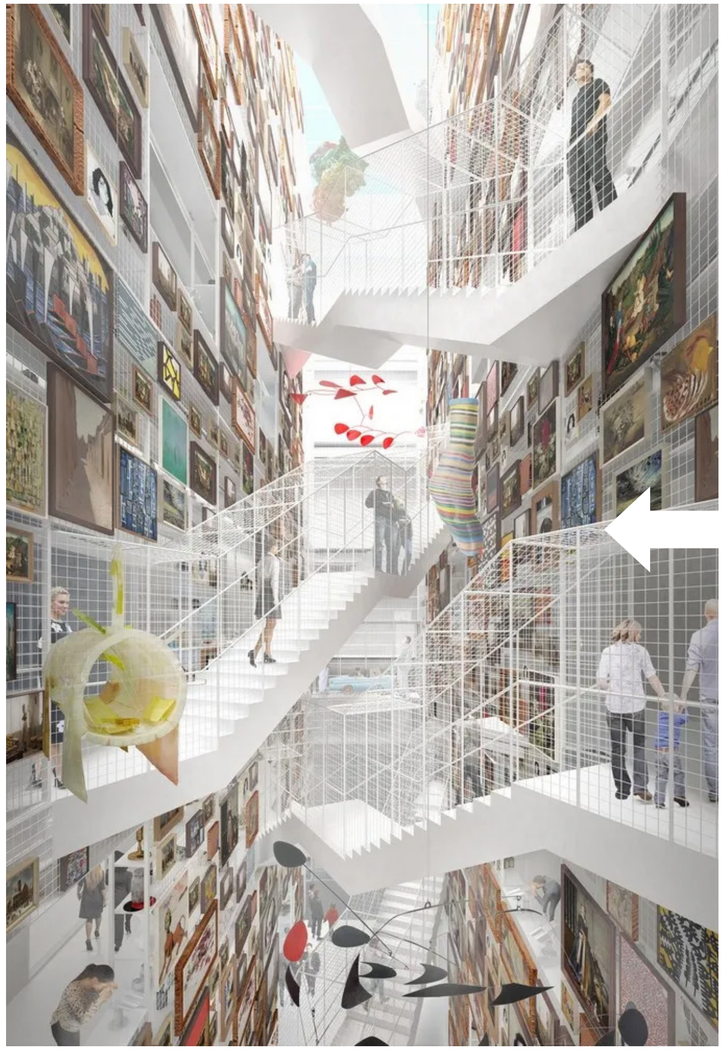

Studios & Labs
Studios & Labs
Studios & Labs
Studios & Labs
Canteen
Machine space
Classrooms
BSH museum
Maker space
Material bank
Repair café
Shop
Vertical movement
Community café



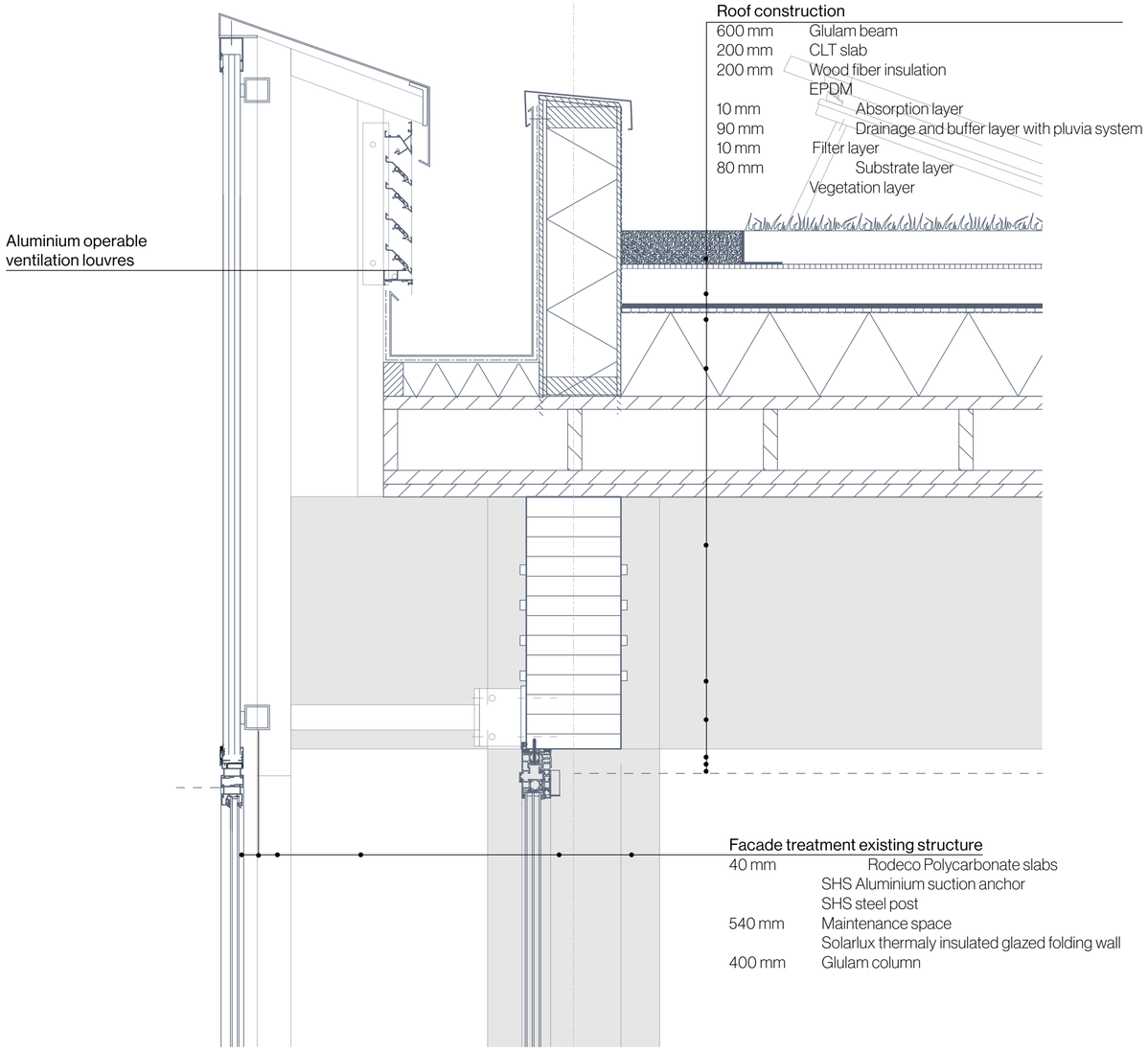


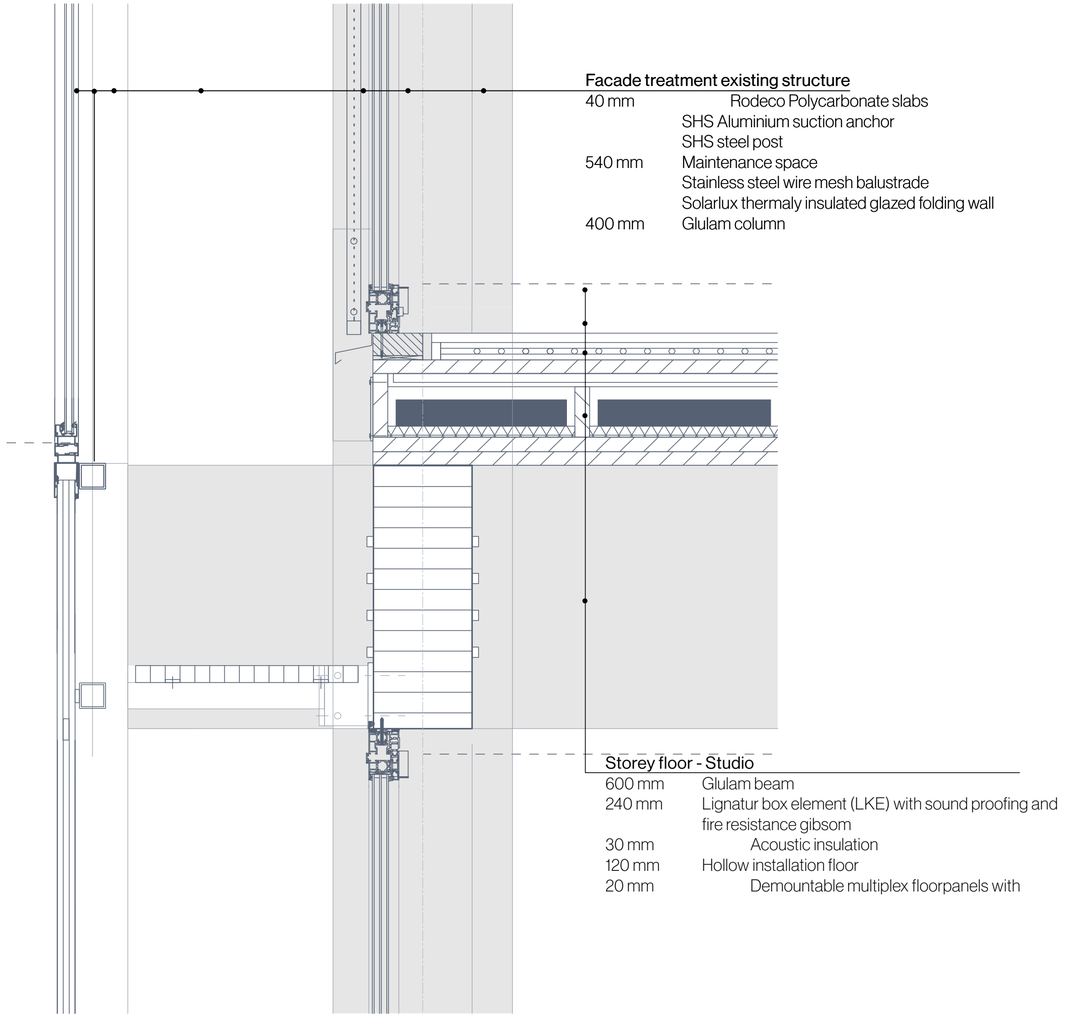


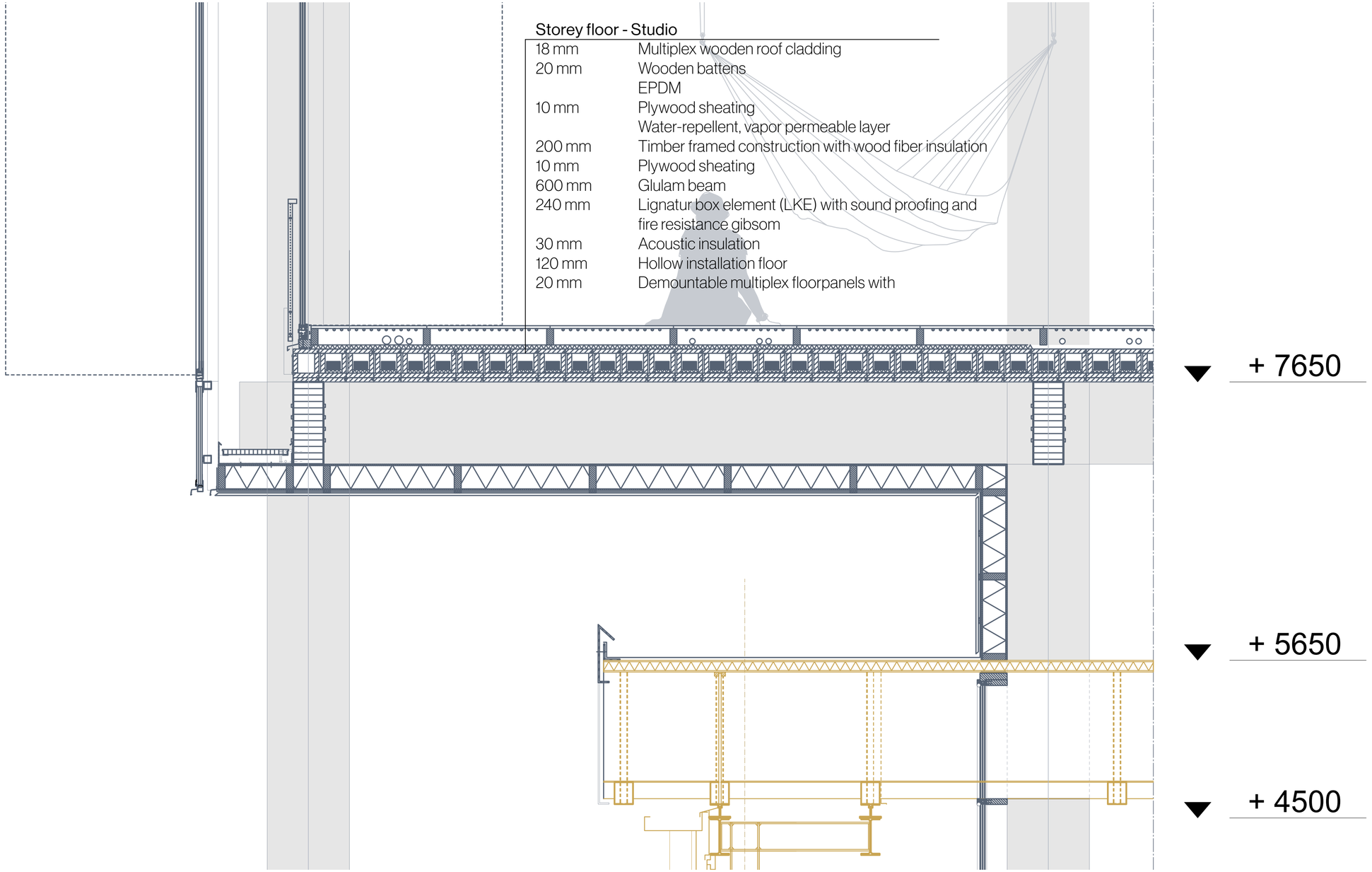


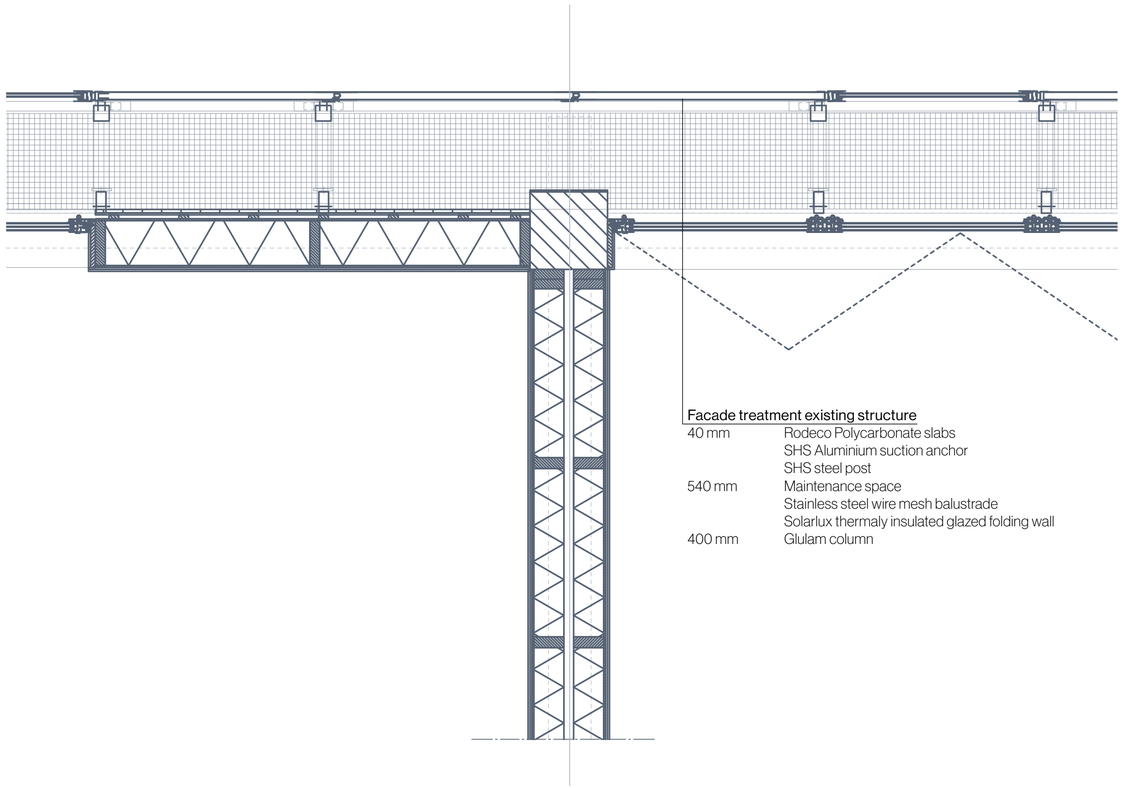





Roof construction
600 mm Glulam beam
200 mm CLT slab
200 mm Wood fiber insulation
EPDM
10 mm Absorption layer
90 mm Drainage and buffer layer with pluvia system
10 mm Filter layer
80 mm Substrate layer
Vegetation layer
Aluminium operable
ventilation louvres
Facade treatment existing structure
40 mm Rodeco Polycarbonate slabs
SHS Aluminium suction anchor
SHS steel post
540 mm Maintenance space
Solarlux thermaly insulated glazed folding wall
400 mm Glulam column

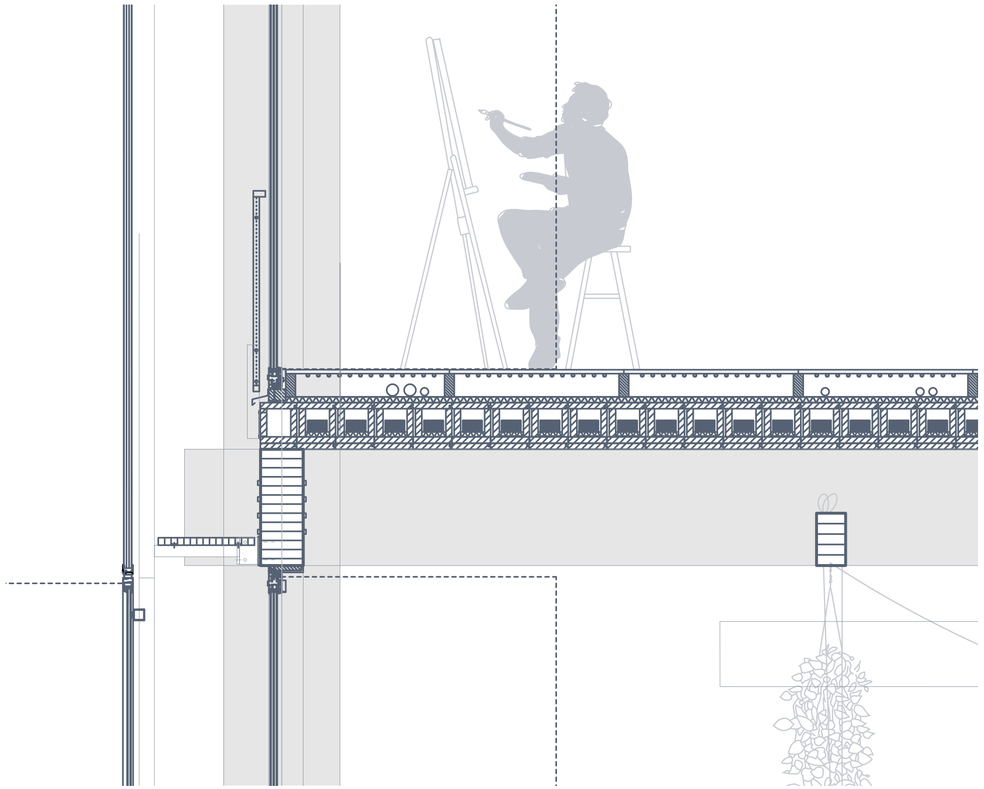

Facade treatment existing structure
40 mm Rodeco Polycarbonate slabs
SHS Aluminium suction anchor
SHS steel post
540 mm Maintenance space
Stainless steel wire mesh balustrade
Solarlux thermaly insulated glazed folding wall
400 mm Glulam column
Storey floor - Studio
600 mm Glulam beam
240 mm Lignatur box element (LKE) with sound proofing and
fire resistance gibsom
30 mm Acoustic insulation
120 mm Hollow installation floor
20 mm Demountable multiplex floorpanels with

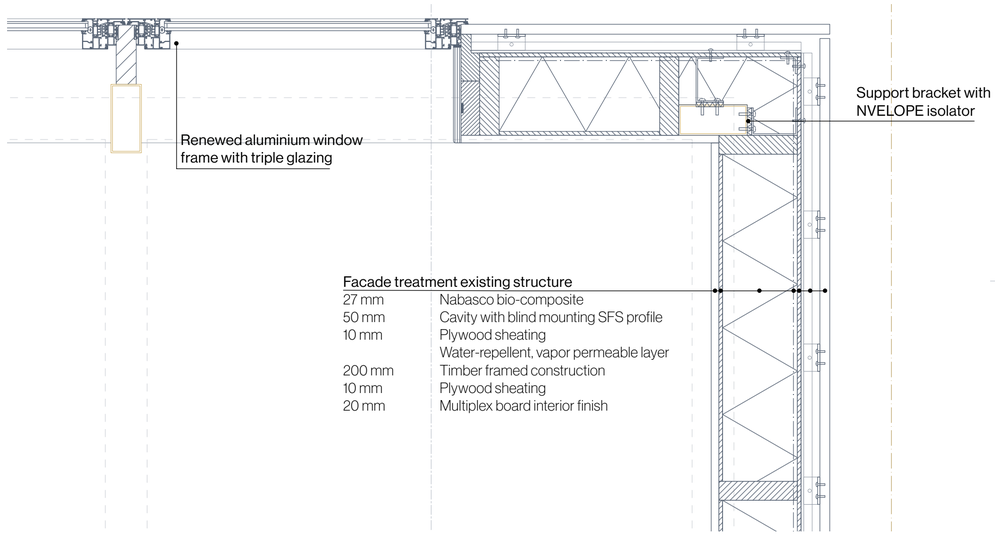

Storey floor - Studio
18 mm Multiplex wooden roof cladding
20 mm Wooden battens
EPDM
10 mm Plywood sheating
Water-repellent, vapor permeable layer
200 mm Timber framed construction with wood fiber insulation
10 mm Plywood sheating
600 mm Glulam beam
240 mm Lignatur box element (LKE) with sound proofing and fire resistance gibsom
30 mm Acoustic insulation
120 mm Hollow installation floor
20 mm Demountable multiplex floorpanels with
+ 7650
+ 5650
+ 4500



Facade treatment existing structure

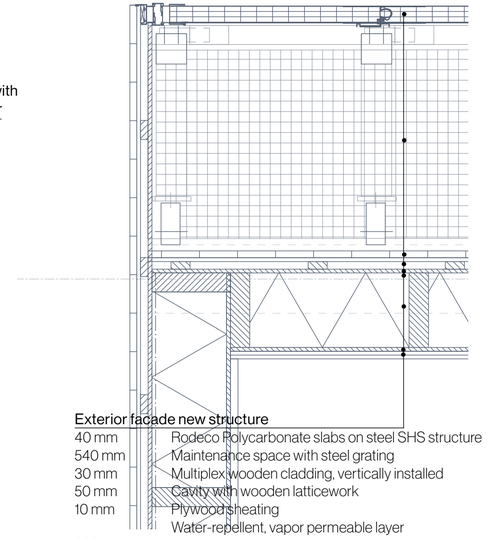
40 mm	Rodeco Polycarbonate slabs
	SHS Aluminium suction anchor
	SHS steel post
540 mm	Maintenance space
	Stainless steel wire mesh balustrade
	Solarlux thermaly insulated glazed folding wall
400 mm	Glulam column





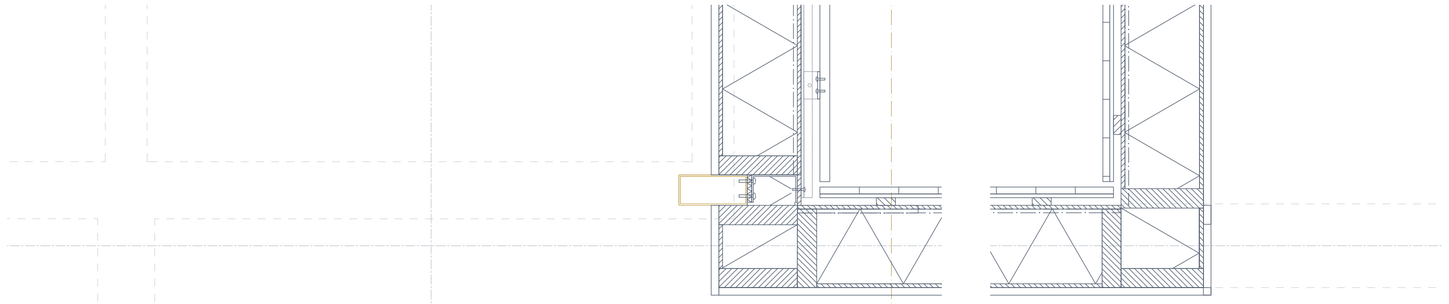
Facade treatment existing structure

27 mm	Nabasco bio-composite
50 mm	Cavity with blind mounting SFS profile
10 mm	Plywood sheating
	Water-repellent, vapor permeable layer
200 mm	Timber framed construction
10 mm	Plywood sheating
20 mm	Multiplex board interior finish



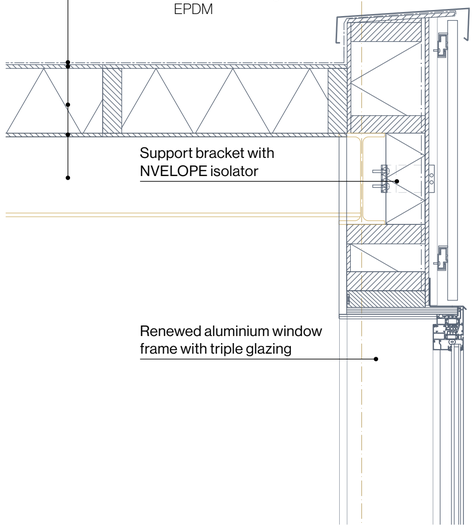
Exterior facade new structure

40 mm	Rodeco Polycarbonate slabs on steel SHS structure
540 mm	Maintenance space with steel grating
30 mm	Multiplex wooden cladding, vertically installed
50 mm	Cavity with wooden latticework
10 mm	Plywood sheating
	Water-repellent, vapor permeable layer
200 mm	Timber framed construction with wood fiber insulation
10 mm	Plywood sheating
20 mm	Multiplex board interior finish



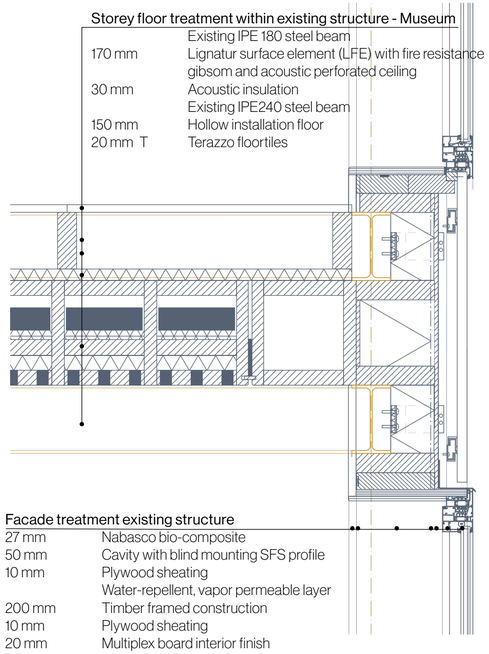
Roof treatment on existing structure - Museum

	Existing IPE 240 steel beam
10 mm	Plywood sheating
180 mm	Timber framed construction
10 mm	Plywood sheating
	EPDM



Storey floor treatment within existing structure - Museum

	Existing IPE 180 steel beam
170 mm	Lignatur surface element (LFE) with fire resistance
	gibsom and acoustic perforated ceiling
30 mm	Acoustic insulation
	Existing IPE240 steel beam
150 mm	Hollow installation floor
20 mm T	Terazzo floortiles



Facade treatment existing structure

27 mm	Nabasco bio-composite
50 mm	Cavity with blind mounting SFS profile
10 mm	Plywood sheating
	Water-repellent, vapor permeable layer
200 mm	Timber framed construction
10 mm	Plywood sheating
20 mm	Multiplex board interior finish