

The City Cultural Hub

A Campus for the Future

AR3AP100 Public Building Graduation Studio
The Vertical Campus - 'a public hub of the future in the hague'

P5 Presentation | 04/07/2024
By Tijn Jansen | 4713702

PD - Dr. Ir. S. Corbo | TBD - Ir. F. Eckardt | TD - Ir. S. Lee | BE: Ir. H. Veldhuis

Part I: Research Context

Part II: The Hague: City Cultural Hub

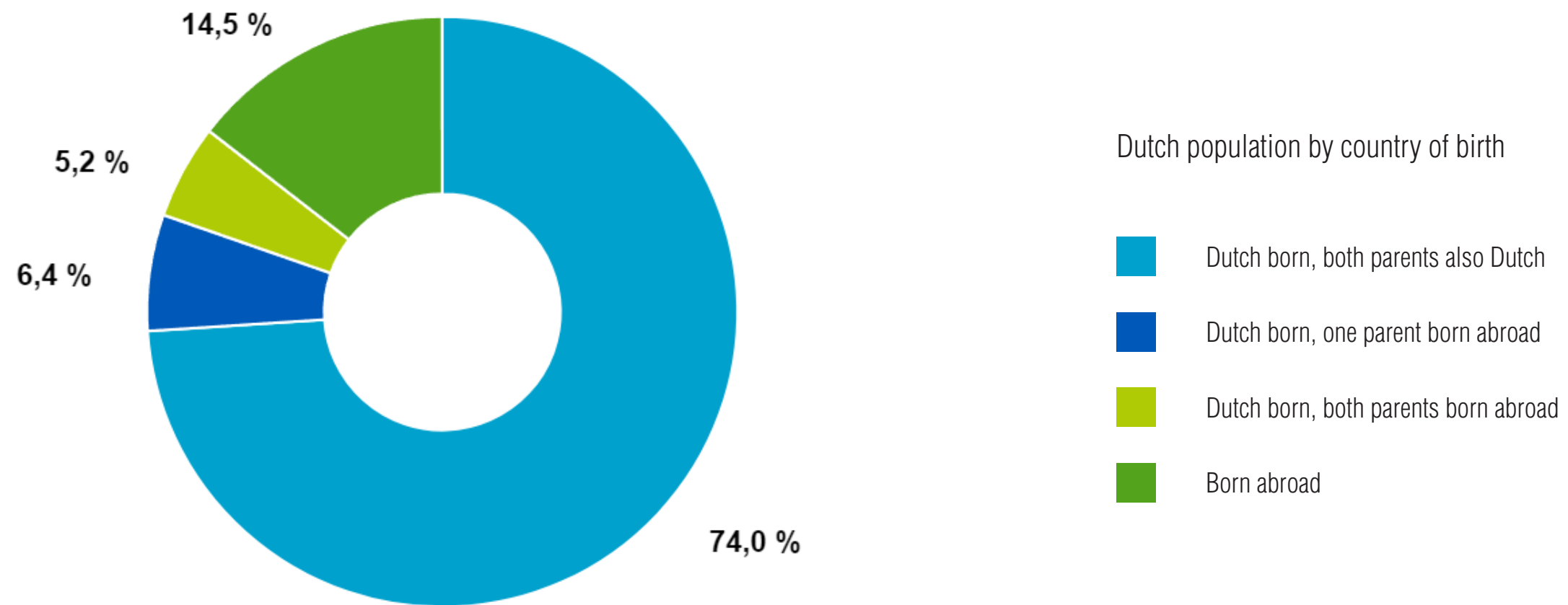
Part III: The Vertical Campus

Part I: Research Context

Part II: The Hague: City Cultural Hub

Part III: The Vertical Campus

Culture — *‘the way of life; the **customs, beliefs, behaviour** and **opinions** of a particular group of people within society.’*



Dutch Society – ‘***Culture*** means ***Cultures***’

Cultures in Dutch Society



by: <https://media.indebuurt.nl/amsterdam/2024/04/30155241/Bootjes-grachten-koningsdag-ANP.jpg>

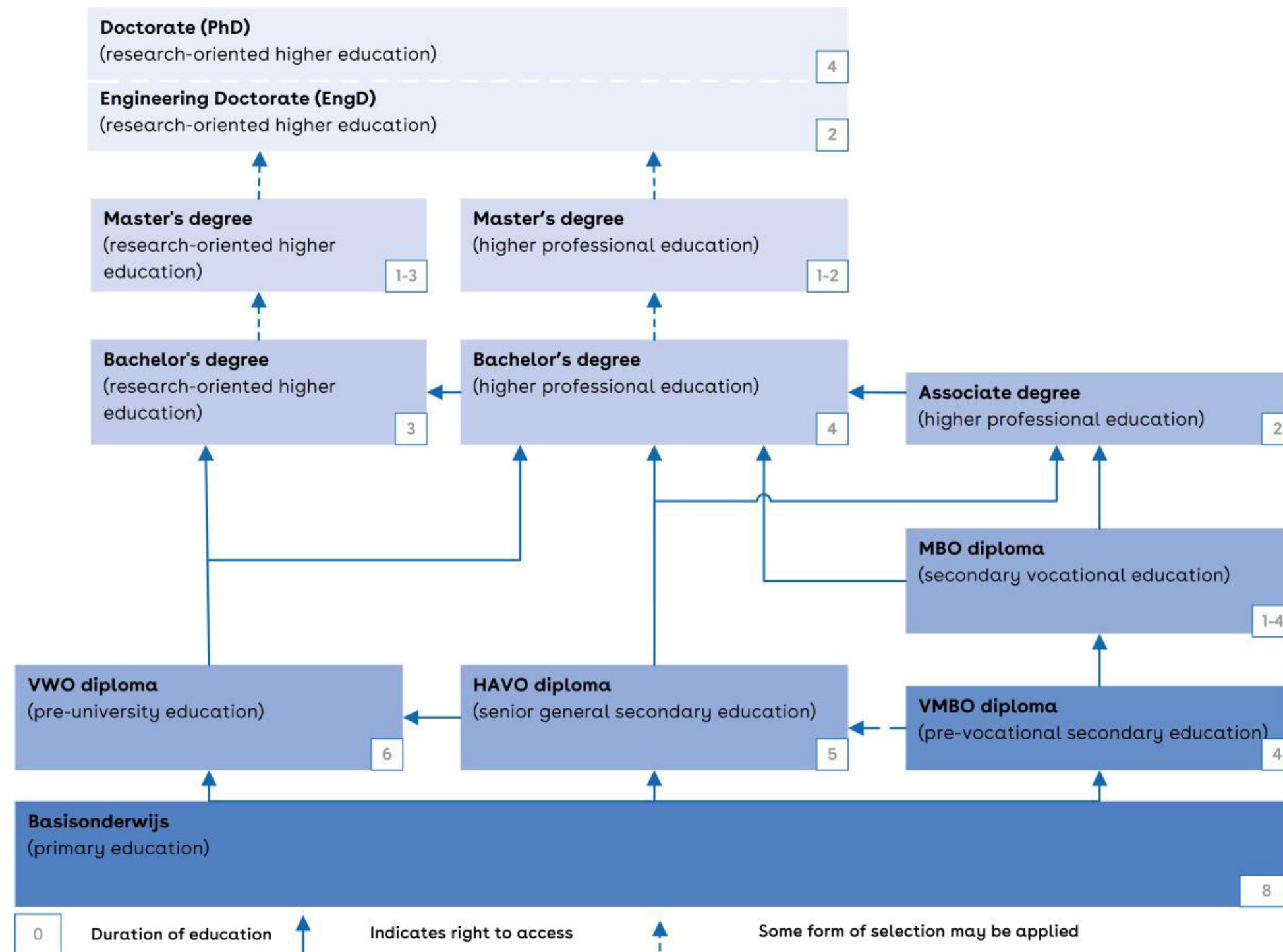


by: <https://ticketsuriname.nl/de-surinaamse-cultuur/>

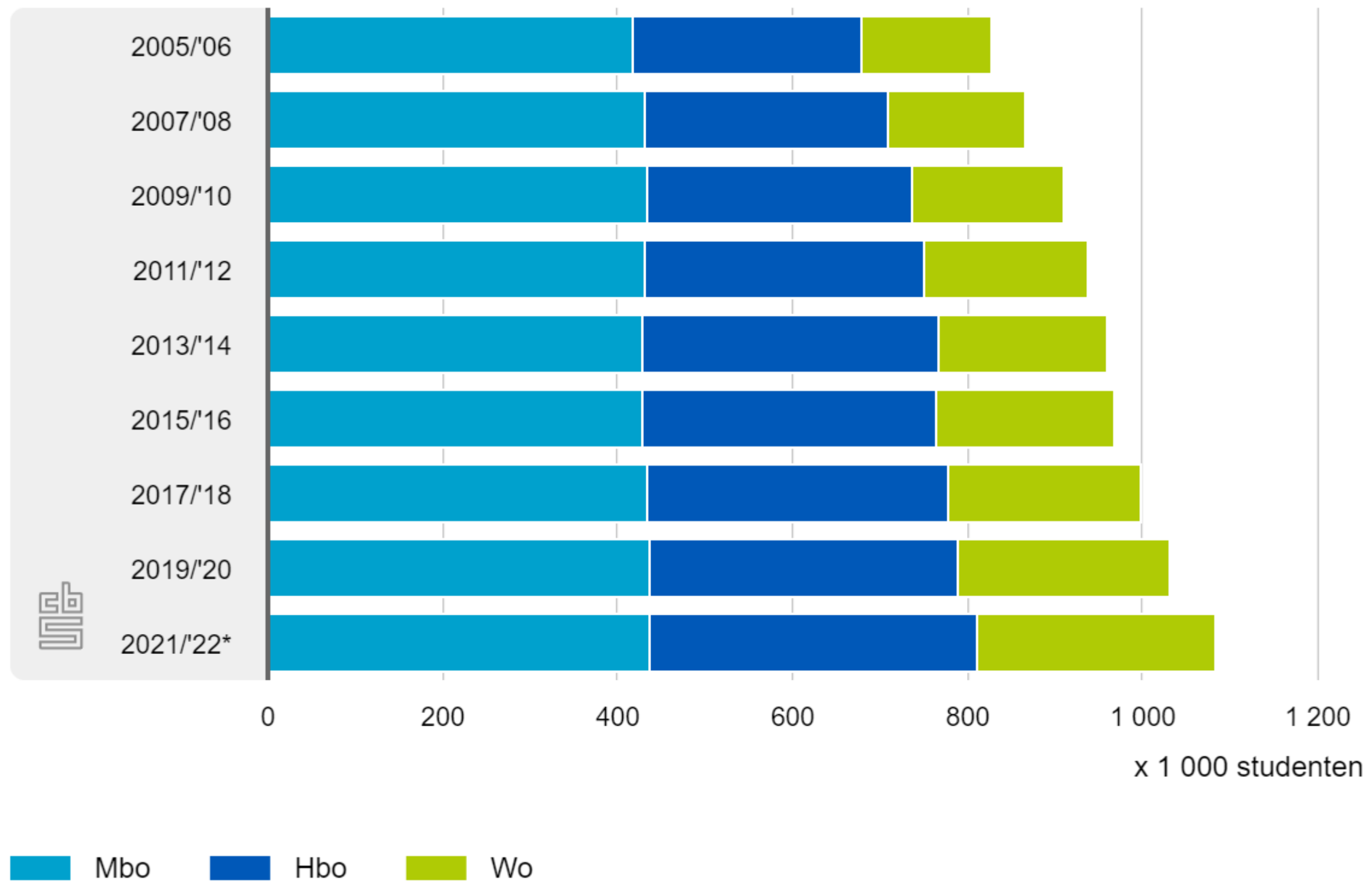


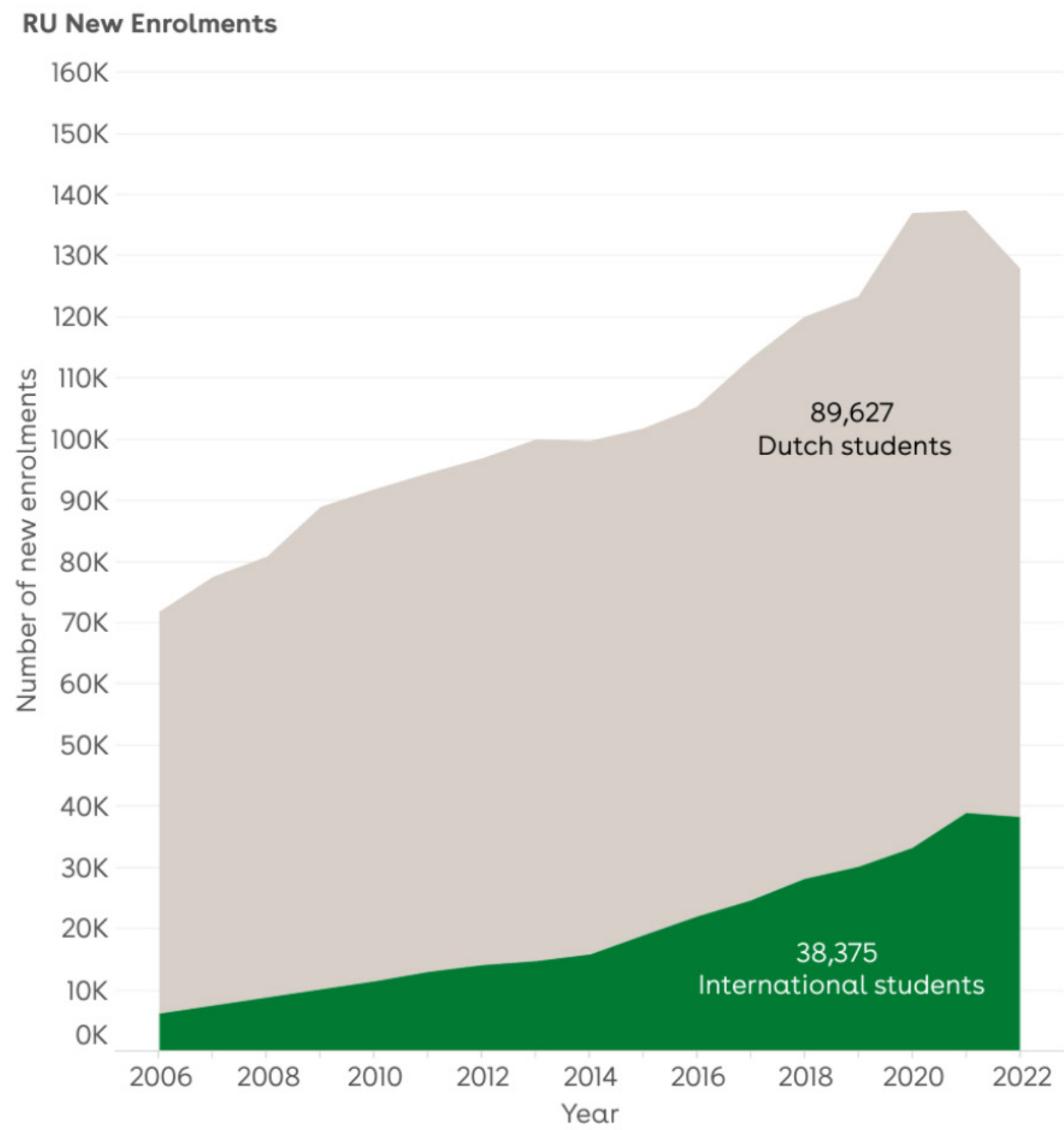
by: <https://nos.nl/nieuwsuur/artikel/2118961-voelen-turkse-nederlanders-zich-vooral-turk-of-ook-nederlander>

Education — *‘the process of **teaching** and **learning**, or the **knowledge** that you get from this.’*



Growth Students

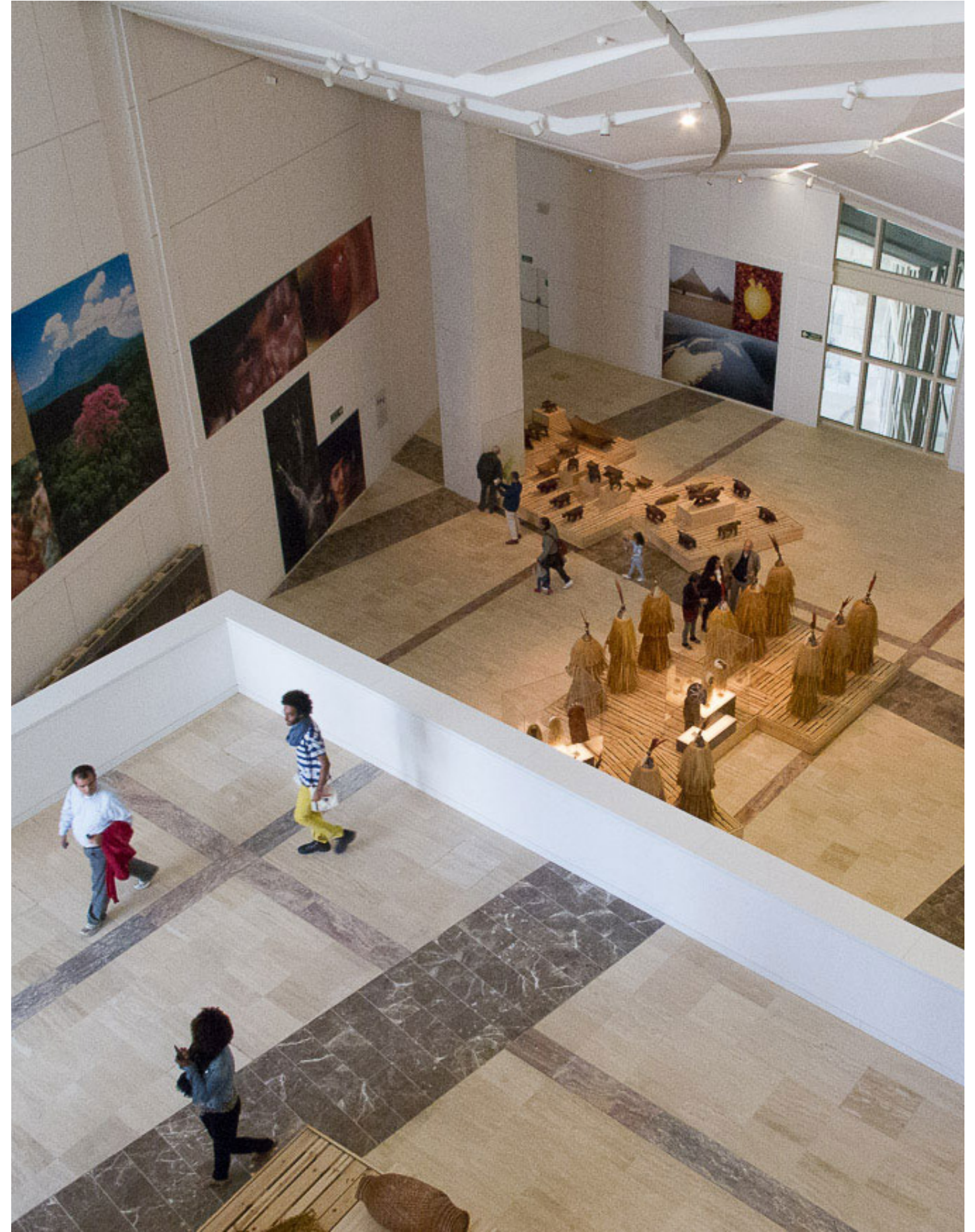




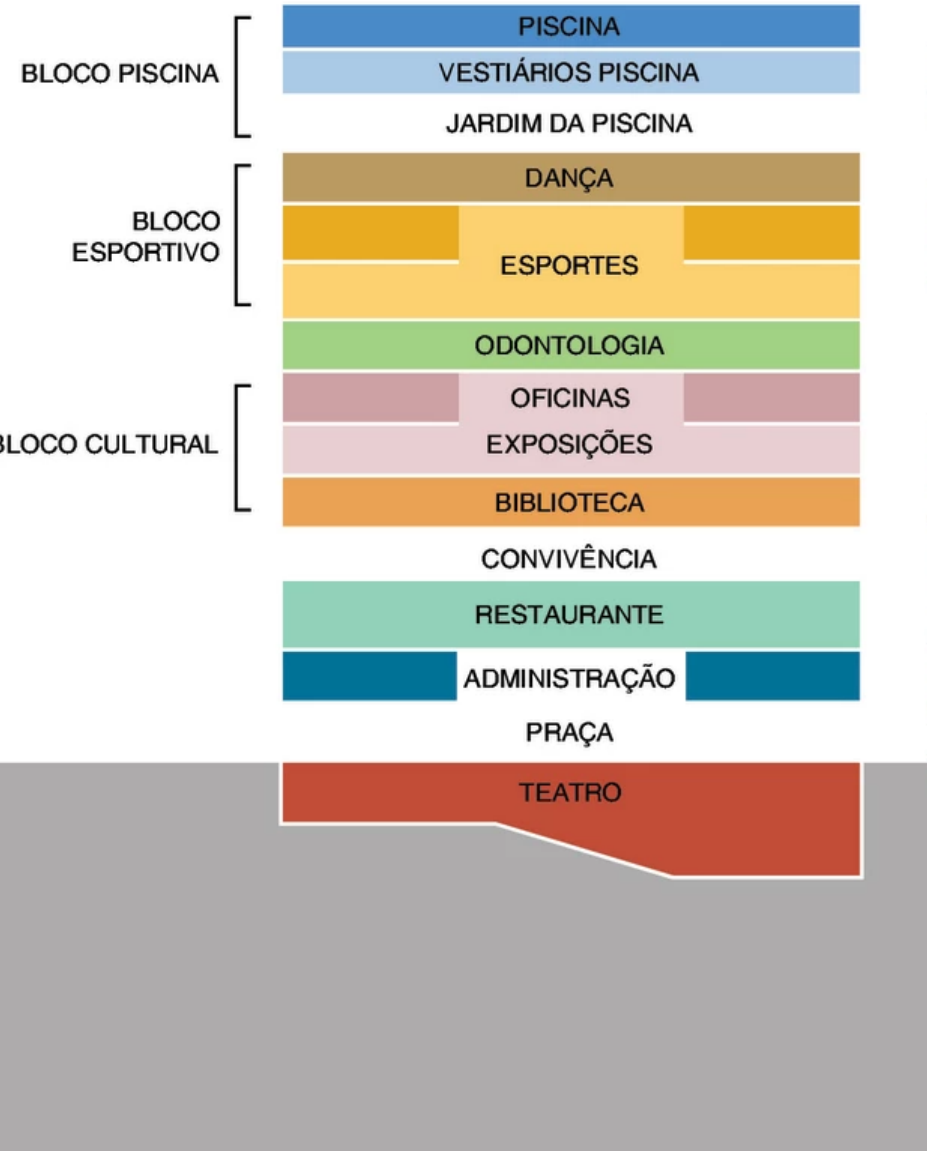
Cultures in Education – ‘*The **Multiplicity of Cultures** is **not represented** within Education.*’

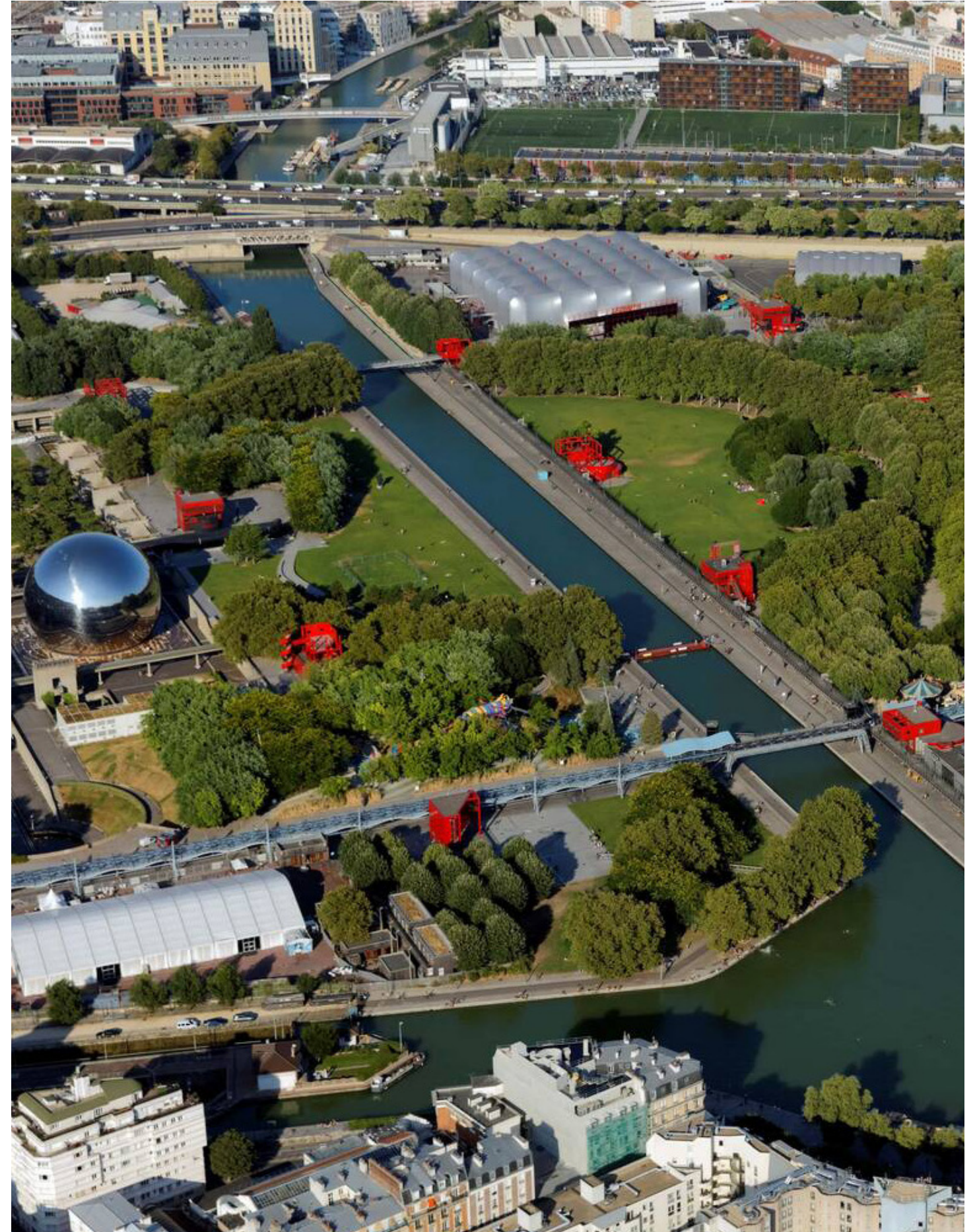
*Cultures + Education = **City Cultural Hub***







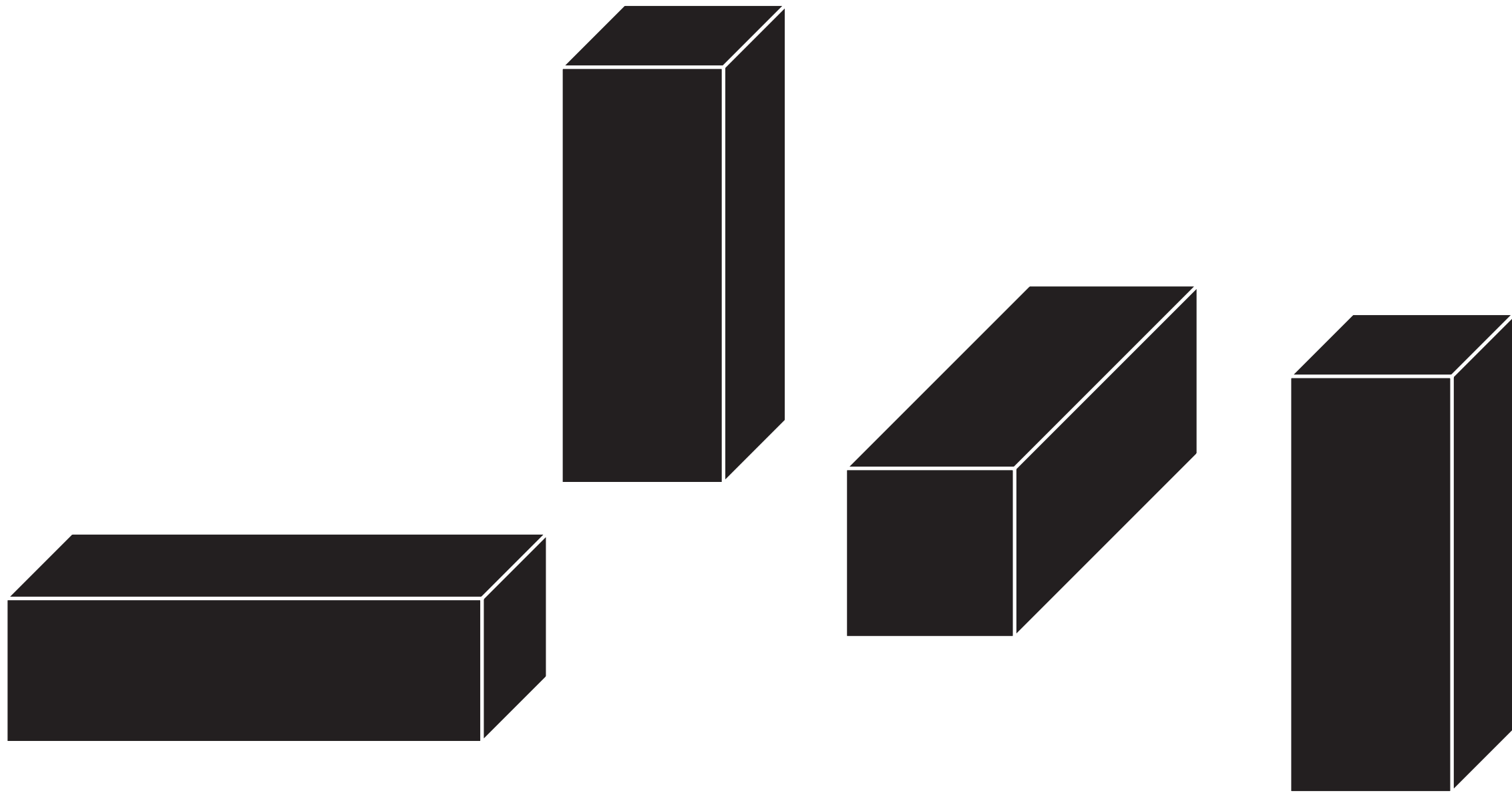






‘City Cultural Hub — ‘a ***social condenser***, that blends ***cultural and educational program***, but also ***multiple paths of life***.’

City Cultural Hub = ***Campus?***



Campus – ‘*The campus, by contrast, focuses on the **individual built object**. The campus does not delineate spaces, but instead positions the **objects within** a seemingly **limitless space***’

On American Campus



by: <https://www.facebook.com/spartans.msu/photos/a.65981593019/10158629915563020/?type=3>



by: <https://www.facebook.com/photo?fbid=825775142914796&set=a.414297634062551>

On Dutch Campus



by: https://filelist.tudelft.nl/TU%20Delft/Technology_Transfer/afbeeldingen/TU%20Delft%20Campus.jpg



by: <https://www.rho.nl/wp-content/uploads/2021/07/campus.jpg>

Campus of the Future – *‘The campus of the future is a **multifunctional social condenser**, embedded within the **urban fabric**.’*

City Cultural Hub = ***Vertical Campus***

Multiplicity
Diversity
Iconic
Verticality
Multifunctional
Social Condenser
Education
Old and New
Culture
Connected Urban Context Connected

Part I: Research Context

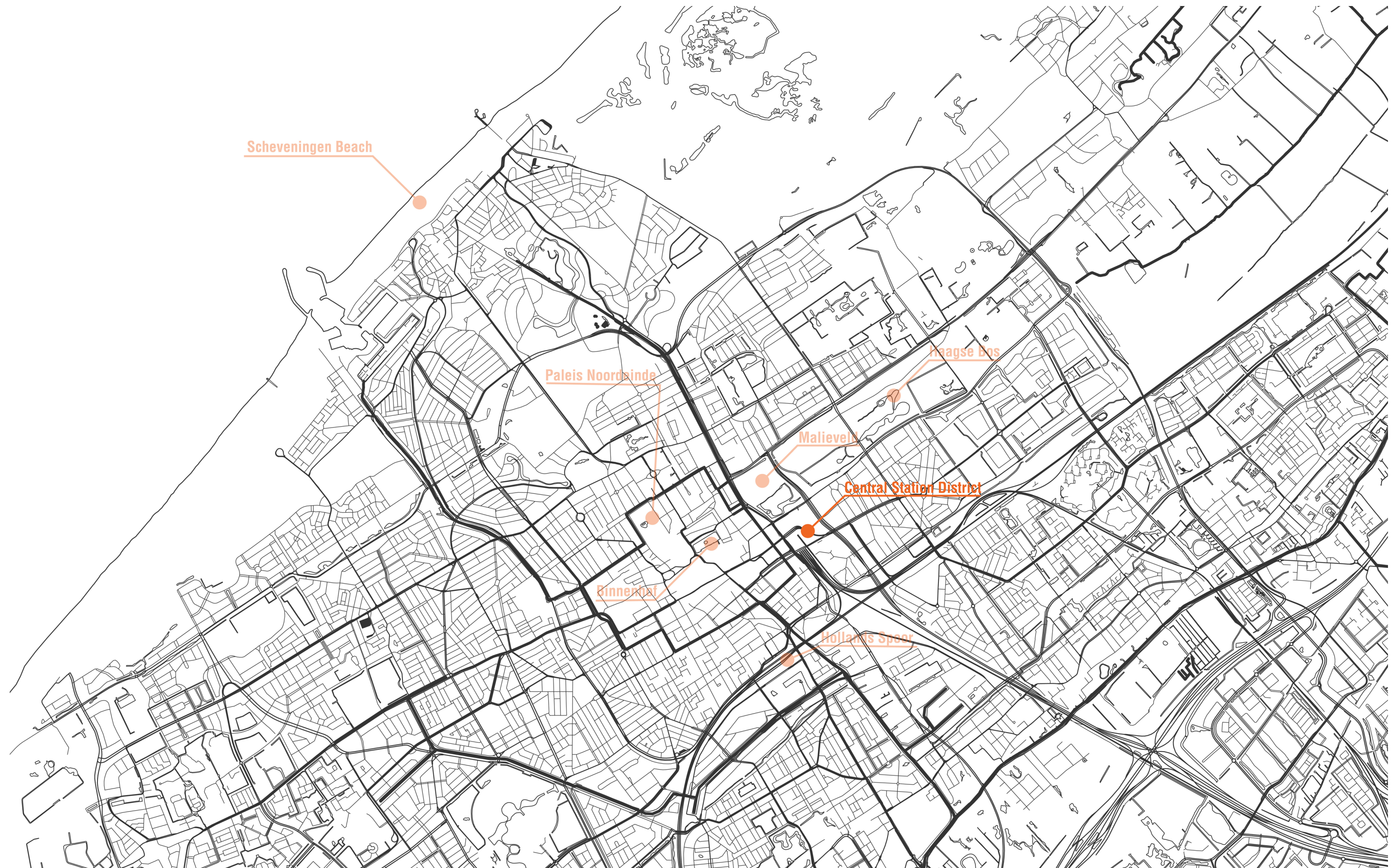
Part II: The Hague: Cultural City Hub

Part III: The Vertical Campus

The Hague



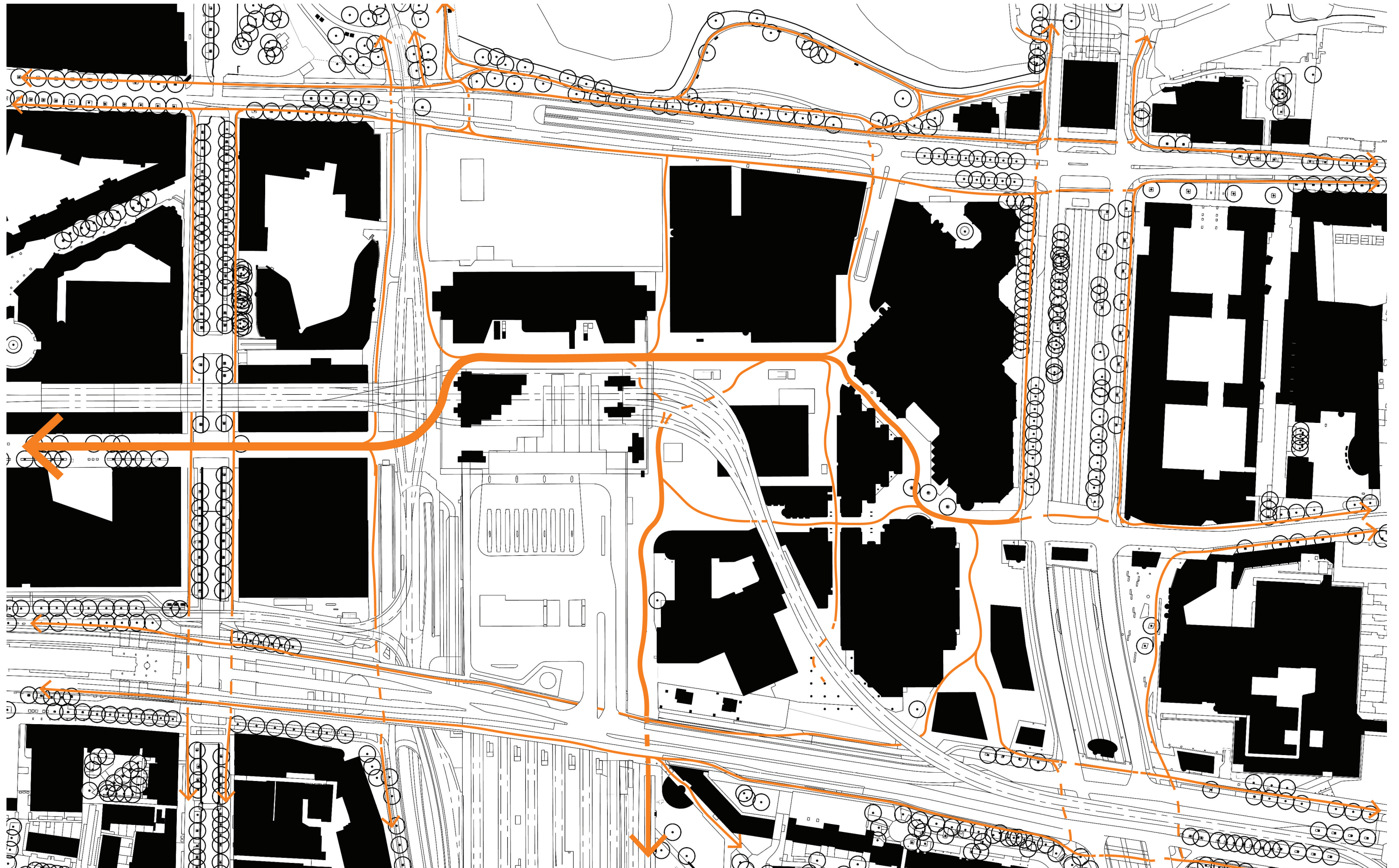
The Hague



The Hague Central Station District



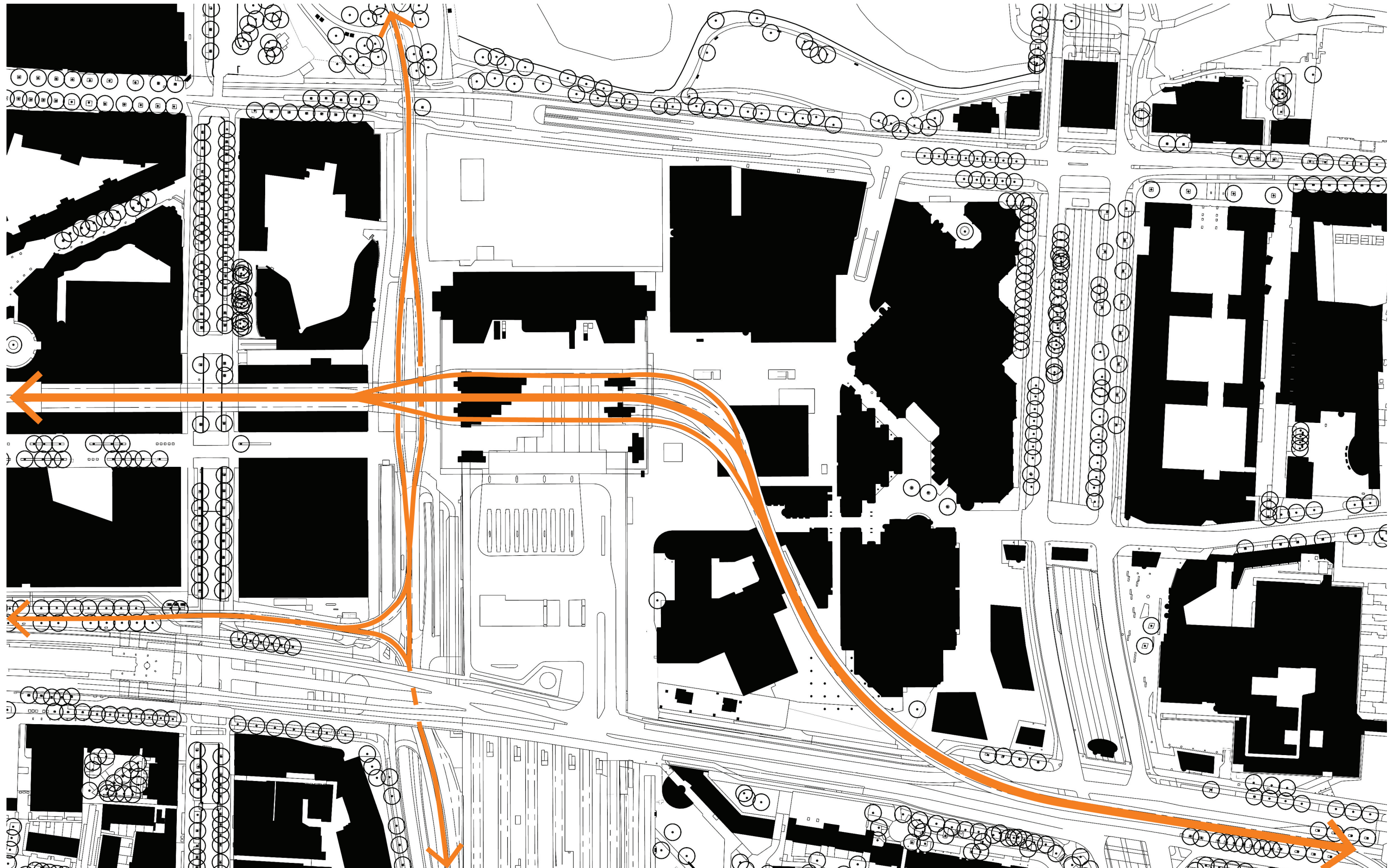
Movement: Pedestrian



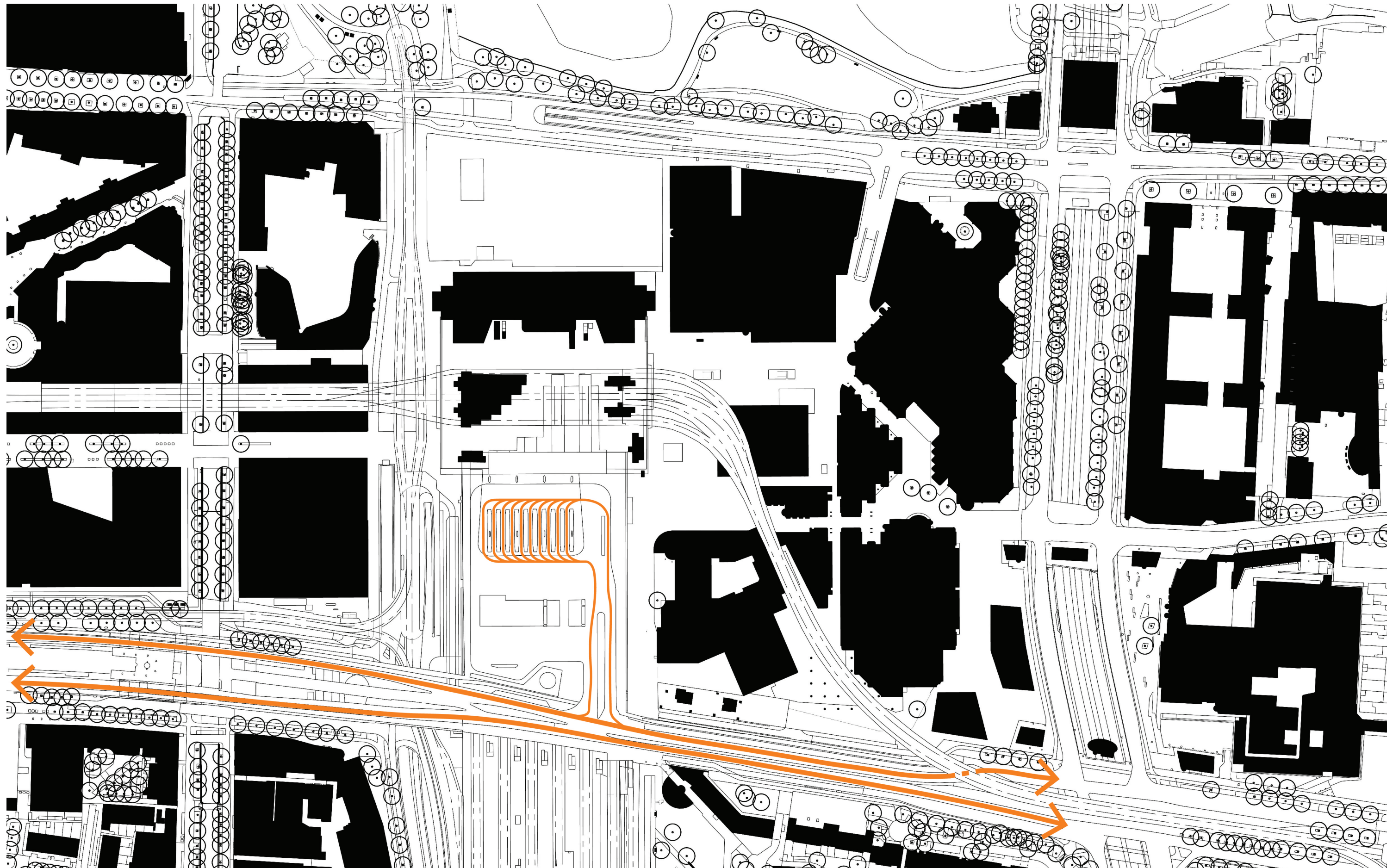
Movement: Car



Public Transport: Tram



Public Transport: Bus

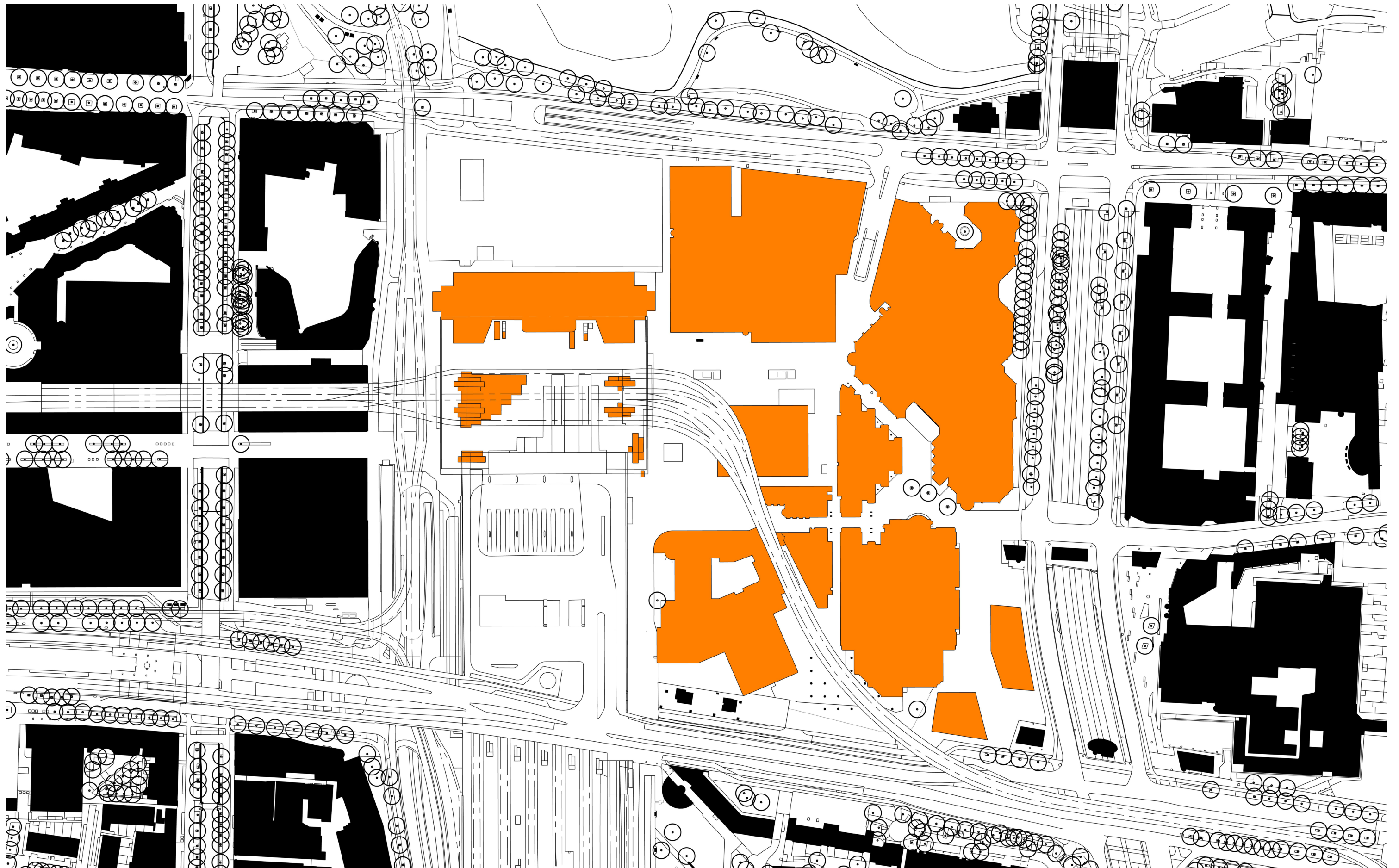


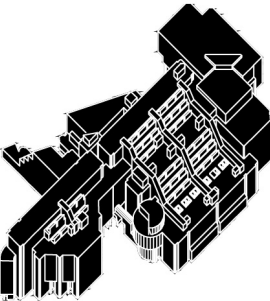
Public Transport: Train





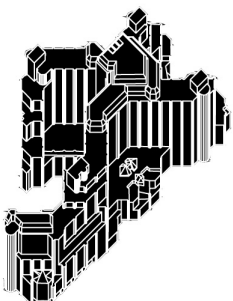
Buildings of Interest





Royal Library

- Library Facilities (40.000 m2)
- Museum of Literature and Children's books
- DEN academy
- RKD, Institute for Art History
- Entrance, Storage, Mechanical, Circulation spaces



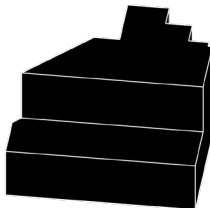
B67 (part) - Primary Education

- Play and Learn Spaces | Primary Education
- Outdoor Playground
- Entrance, Storage, Mechanical, Circulation spaces



Leiden University | AvB Tower

- Lecture Hall
- (Social) Study Spaces
- Student Apartments + Amenities
- Social Spaces
- Entrance, Storage, Mechanical, Circulation spaces



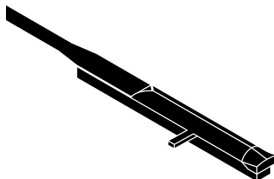
Open University

- Social Hub
- Learn and Discover
- Learn and Develop + Innovation Center
- Teaching, Learning and Development
- Entrance, Storage, Mechanical, Circulation spaces



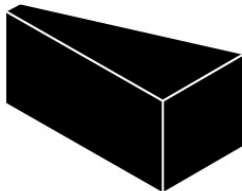
Makers District

- Lounge + Cafe
- Workshop Spaces
- Dance Studio
- Music Classrooms
- Local Shops
- Entrance, Storage, Mechanical, Circulation spaces



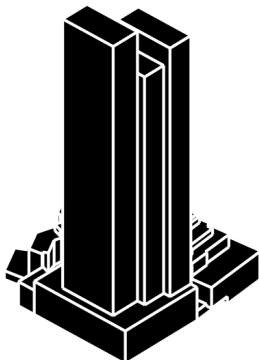
Cultural Commercial

- Art Gallery
- Book Shop
- Cafes
- Local Shops

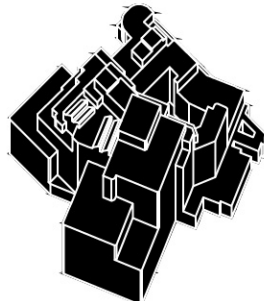


Cultural Exchange Hub

- Exhibition Lounge & Cafe
- Event Spaces
- Meeting Rooms
- Office Spaces
- Entrance, Storage, Mechanical, Circulation spaces

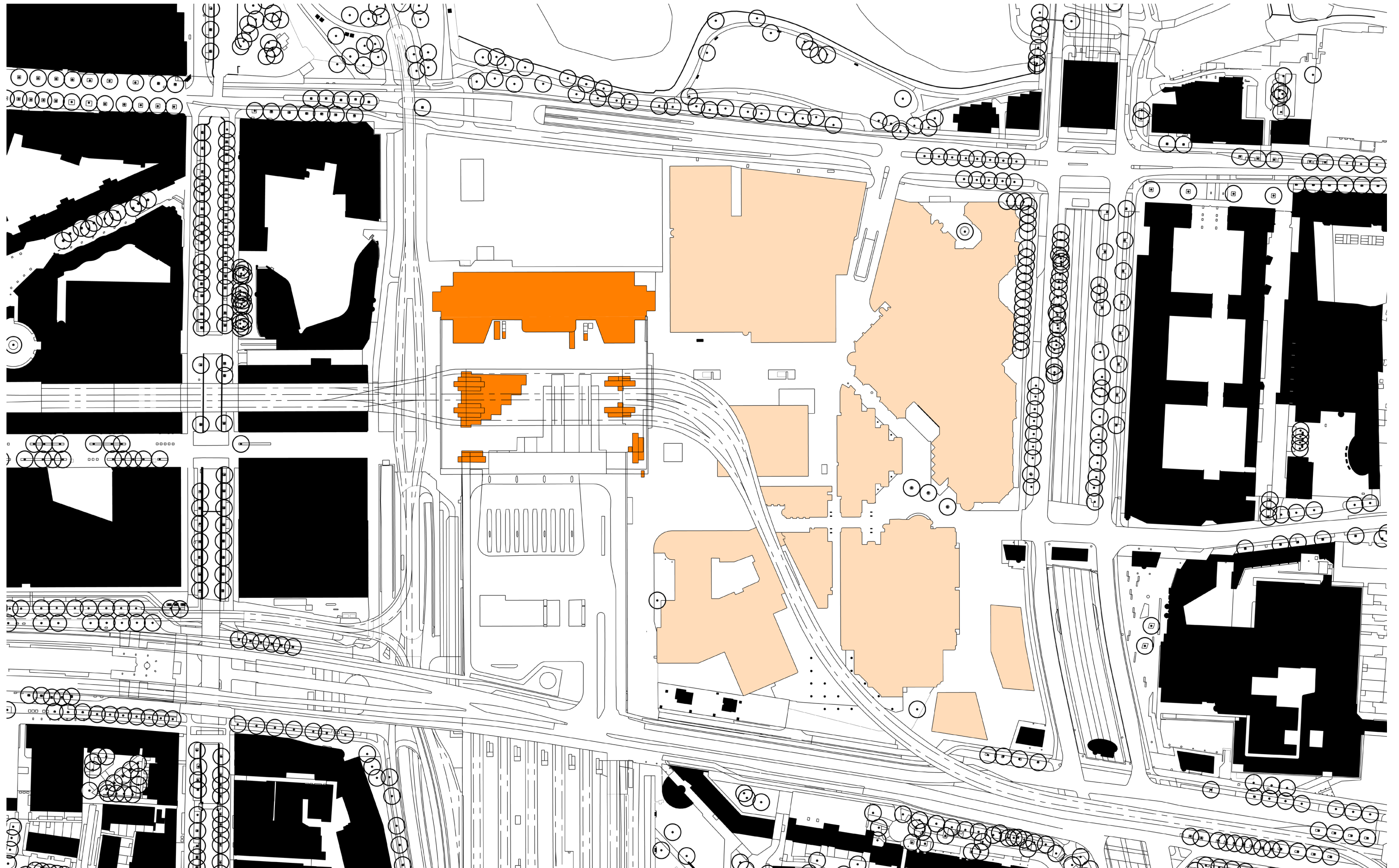


Vertical Campus



National Archive

- Archive Space (22.000 m2)
- Meeting Rooms
- Office Spaces
- Entrance, Storage, Mechanical, Circulation spaces





Architect: Benthem Crouwel architects

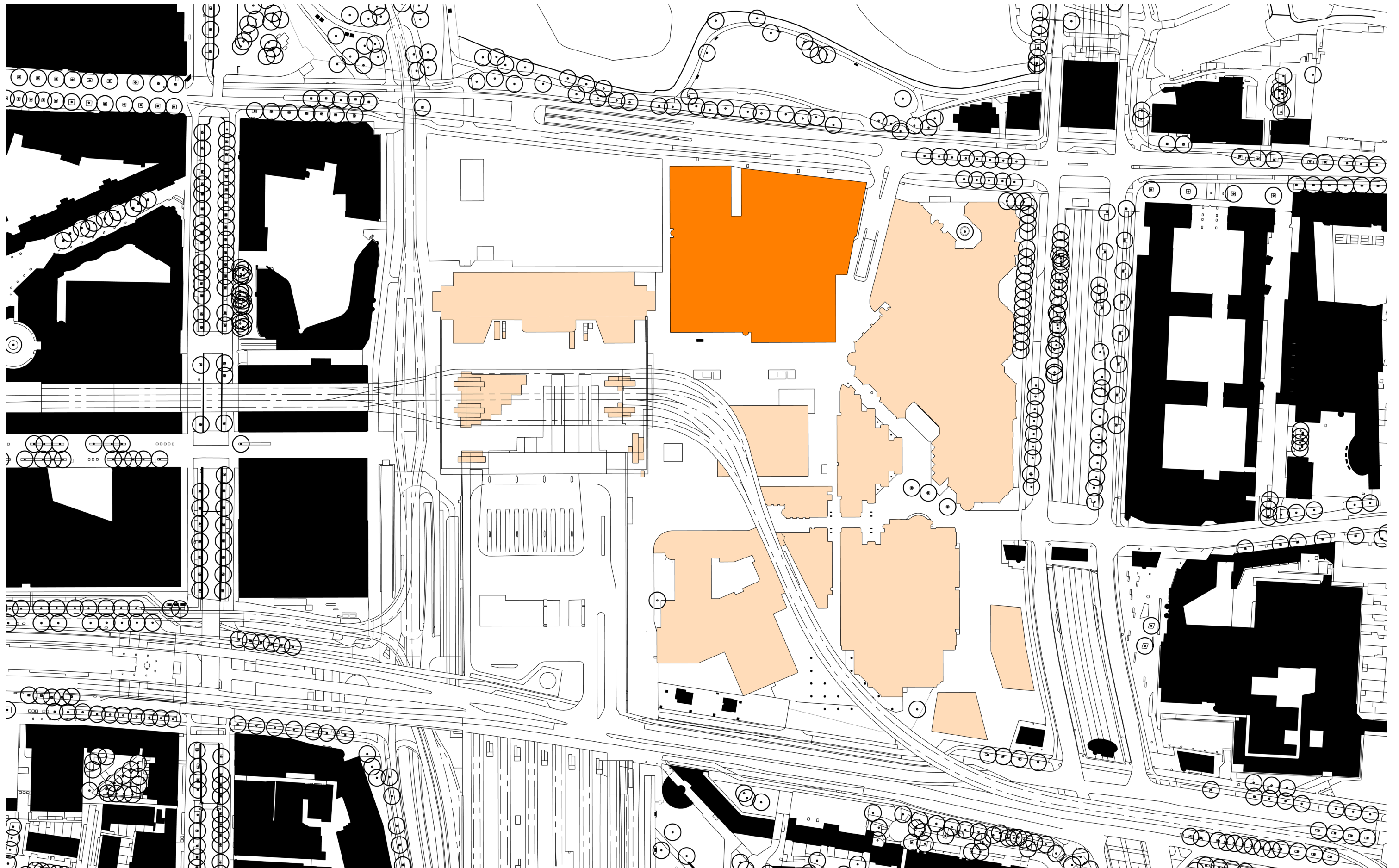
Date of Completion: 2015

Program: Transportation Hub

Built Area: 20.000 m²

Information:

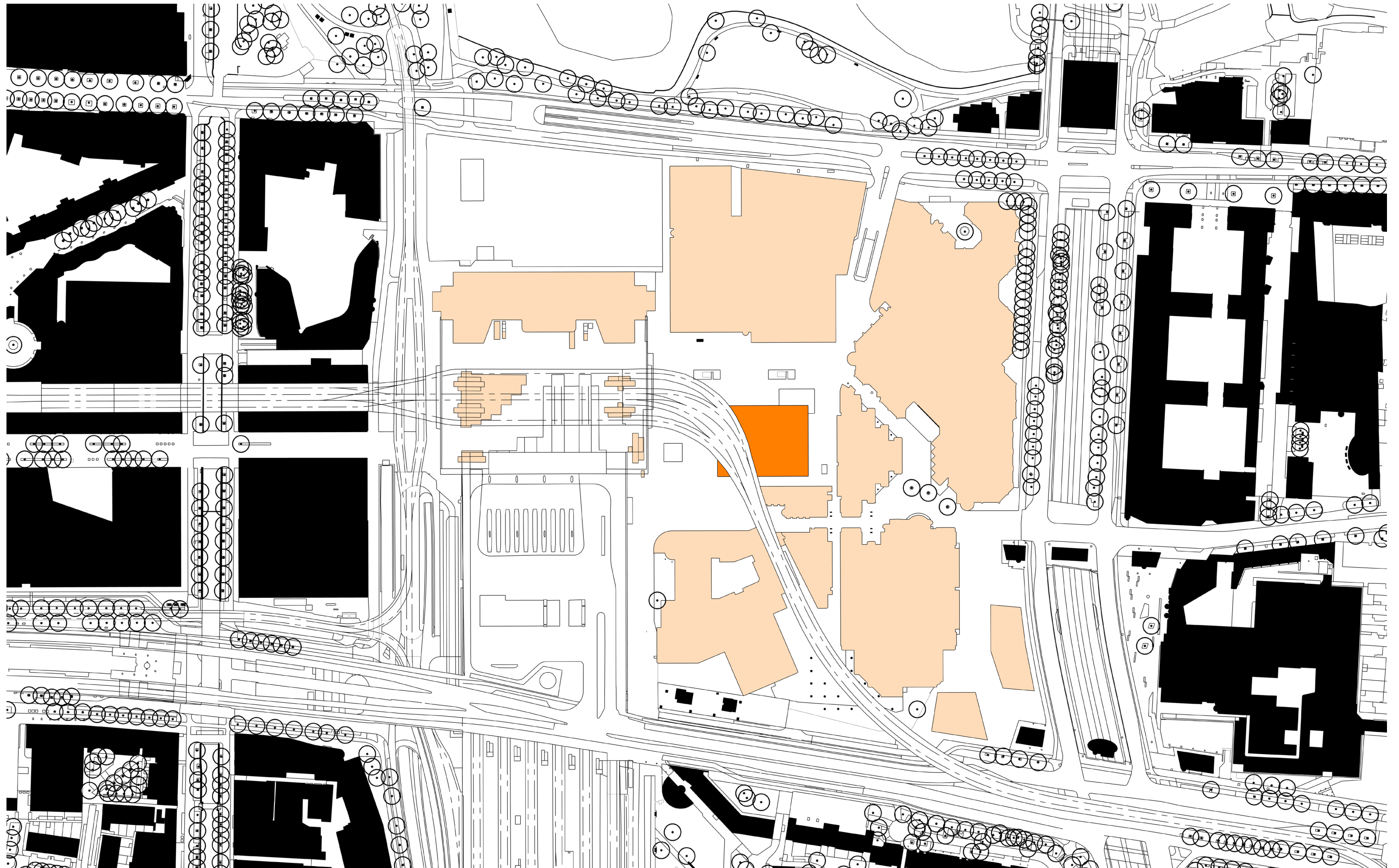
Currently 190.000 travellers and visitors use The Hague Central Station every day. It is the Transportation Hub of the city, where bus, taxi, tram and train converge into one space.





Architect:	MVSA (addition)
Original Construcion:	1978
Additional Construction:	2012
Program:	Commercial, Recreational & Residential Spaces
Built Area:	143.000 m ²
Information:	

'New Babylon in The Hague is the successful culmination of a spectacular transformation of a closed and introverted 1970s building into a modern, 21st-century high-rise.'
- MVSA





Architect: Wiel Arets Architects

Date of Completion: 2013

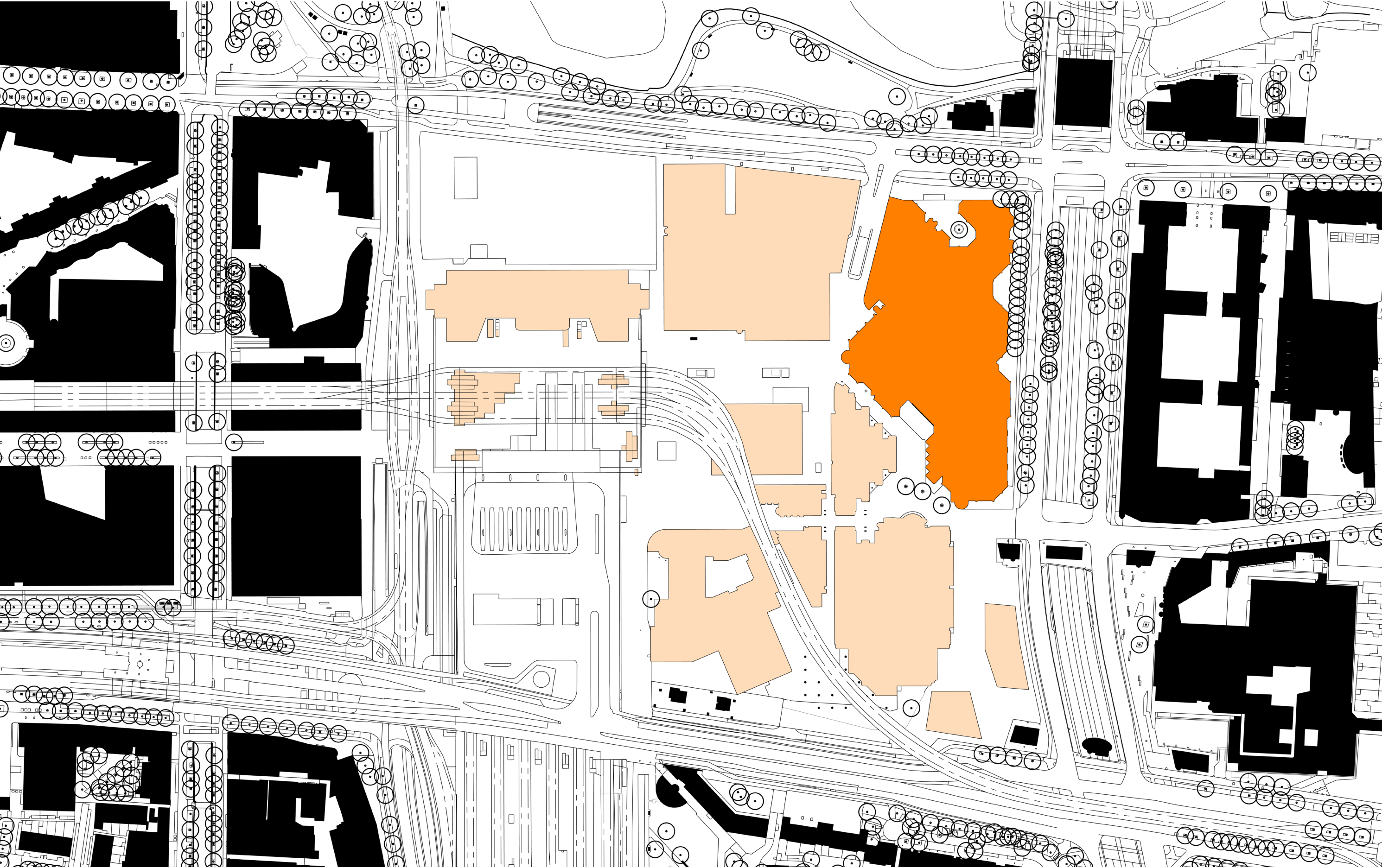
Program: Study Space & Student Housing

Built Area: 24.500 m², 21 floors

Information:

'The AvB Tower is a hyper-hybrid academic building and a dynamic hub threading The Hague's central train station to the adjacent urban envelope, accommodating students and faculty with a program of housing, retail, offices, lecture halls, and dining spaces.'

- WAA

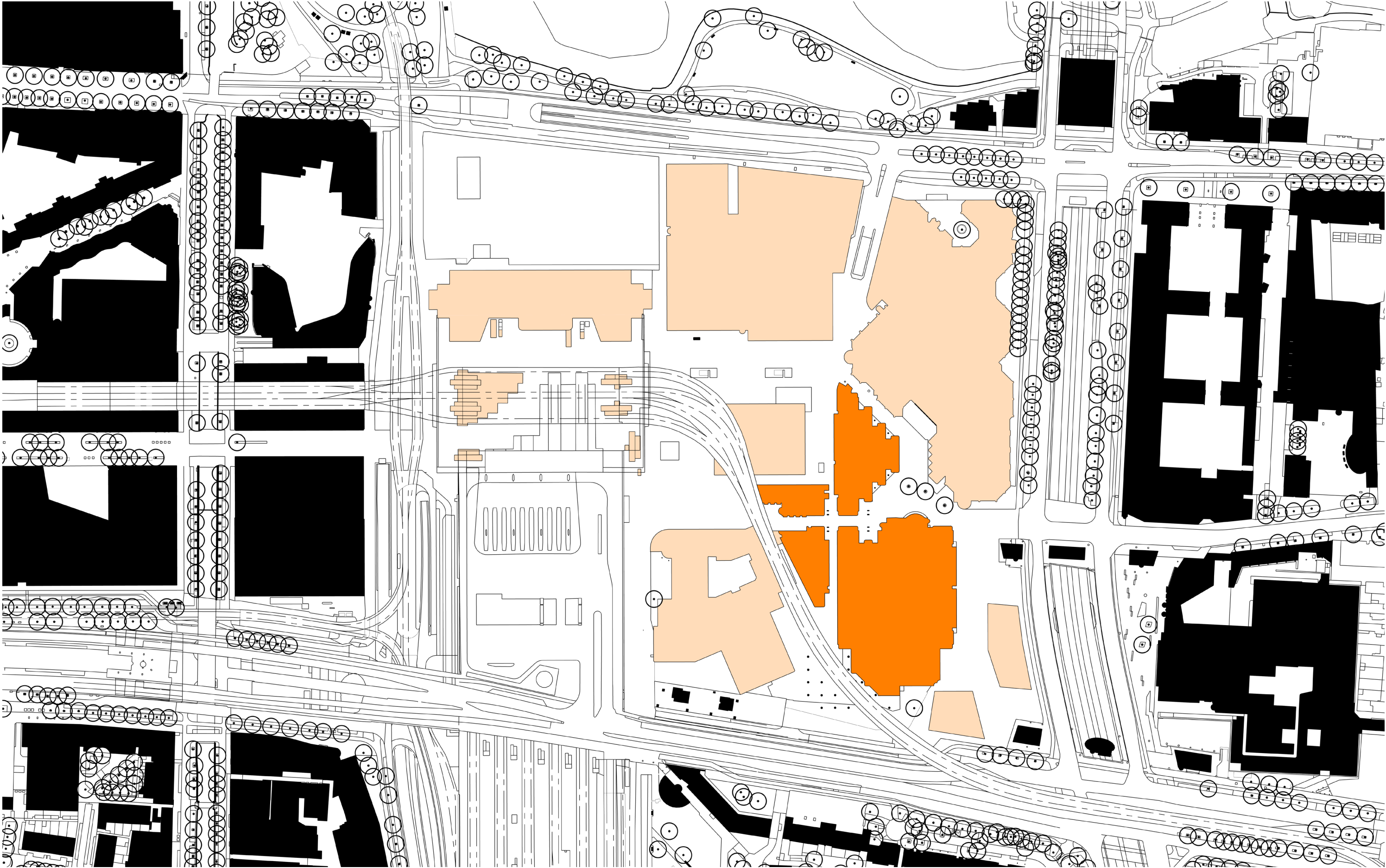




Architect:	D.C. Apon
Begin Construcion:	1979
Date of Completion:	7 May 1985
Program:	House of Representatives
Built Area:	94.000 m ² , 15 floors

Information:

Nickname '*monkey rock*' due to its brutalist architecture. The building became vacant between 2017-2019, and got renovated between 2019-2021 for the current program, but will become vacant again in 2028.





Architect: Arie Hagoort

Founded in: 1798

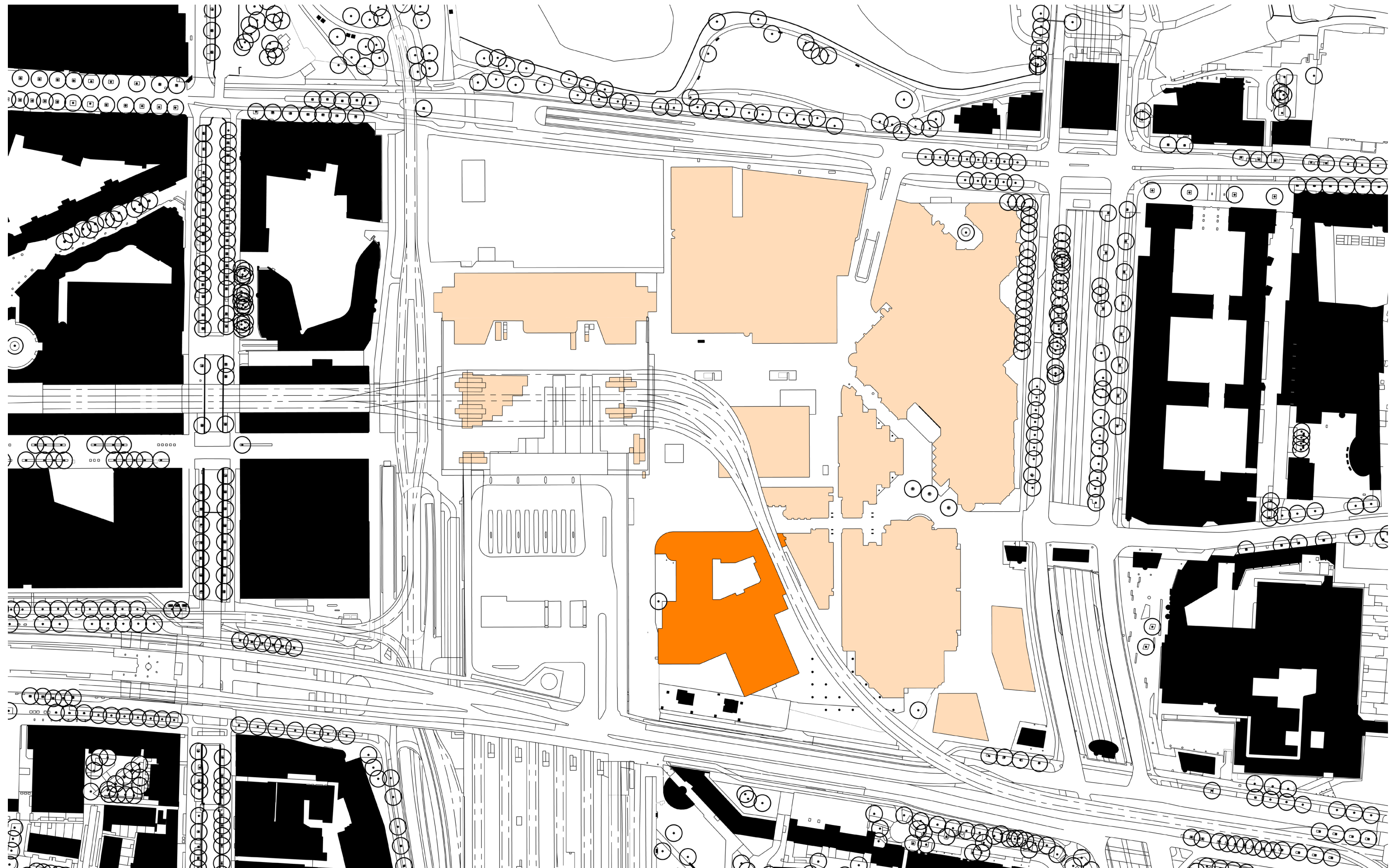
Date of Completion: 1982

Program: Library, Reading and Study Space

Built Area: 74.462 m²

Information:

The KB, *Royal Library*, is the national library of the Netherlands and collects everything in and about the Netherlands. It also contains two museums, the RKD, DEN, LIBER and IFLA.





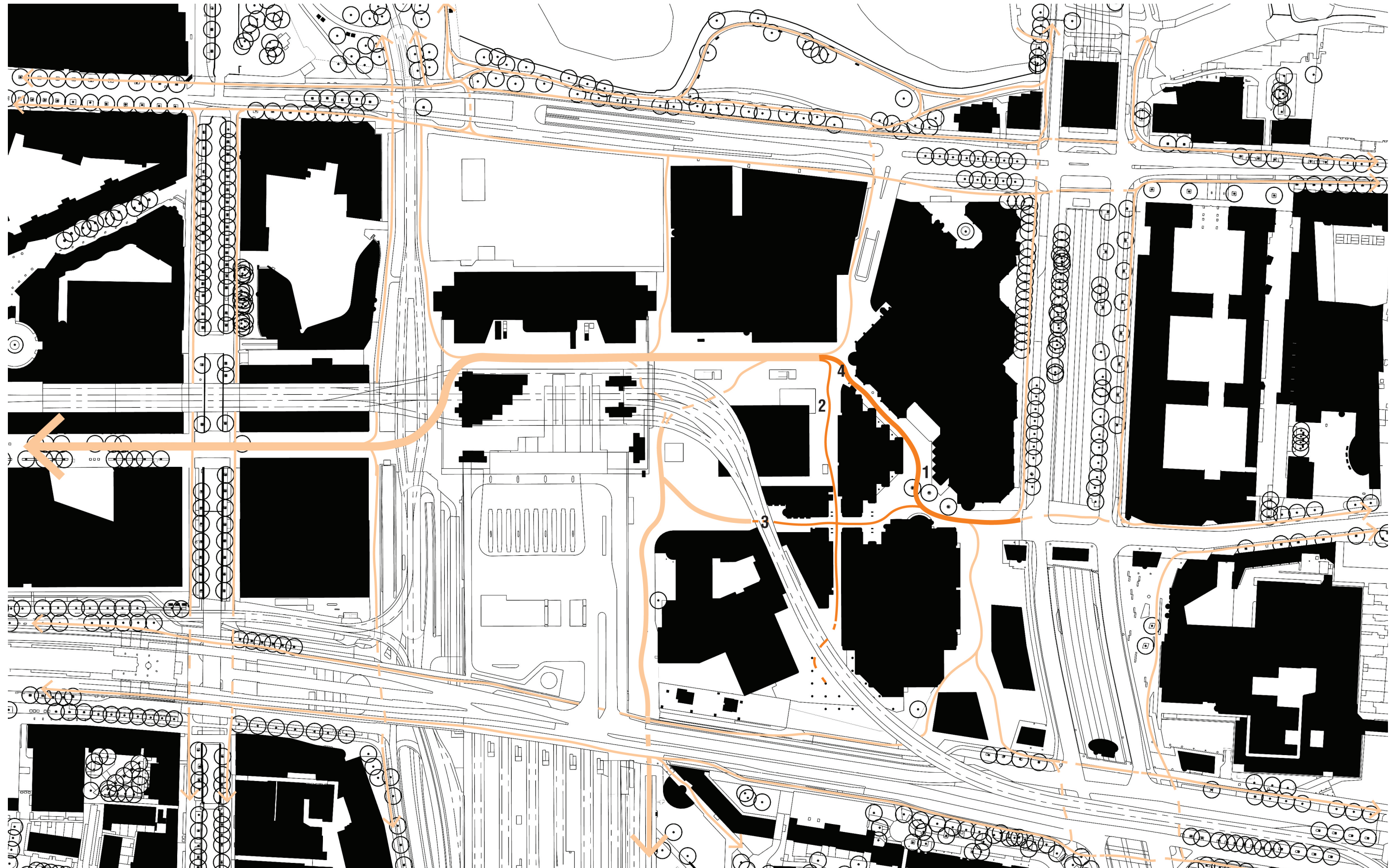
Architect:	Sjoerd Schamhart
Founded in:	1802
Date of Completion:	1979
Program:	Archive & Study Space
Built Area:	35.000 m ²

Information:

The National Archive contains one of the most extensive collections about the history of the Netherlands, with over 137km in archival material, 15.000.000 photographs, 300.000 maps and 800 Terabytes of digital content.

The entrance of the building was renovated between 2016 - 2018 by diederendirrix, Van Eijk en Van der Lubbe.

Problematic Aspects of Urban Fabric



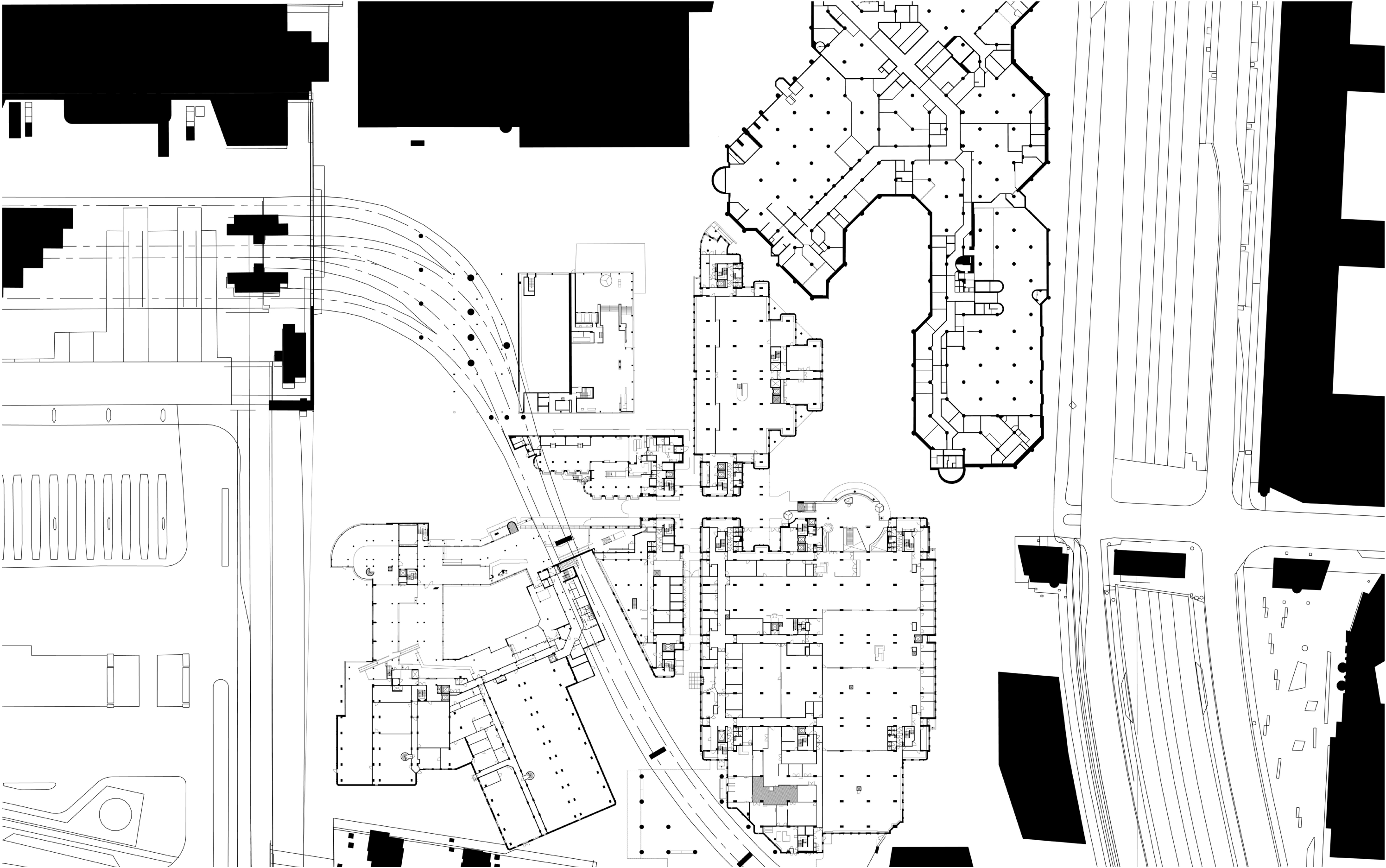
Poor Quality of Public Space



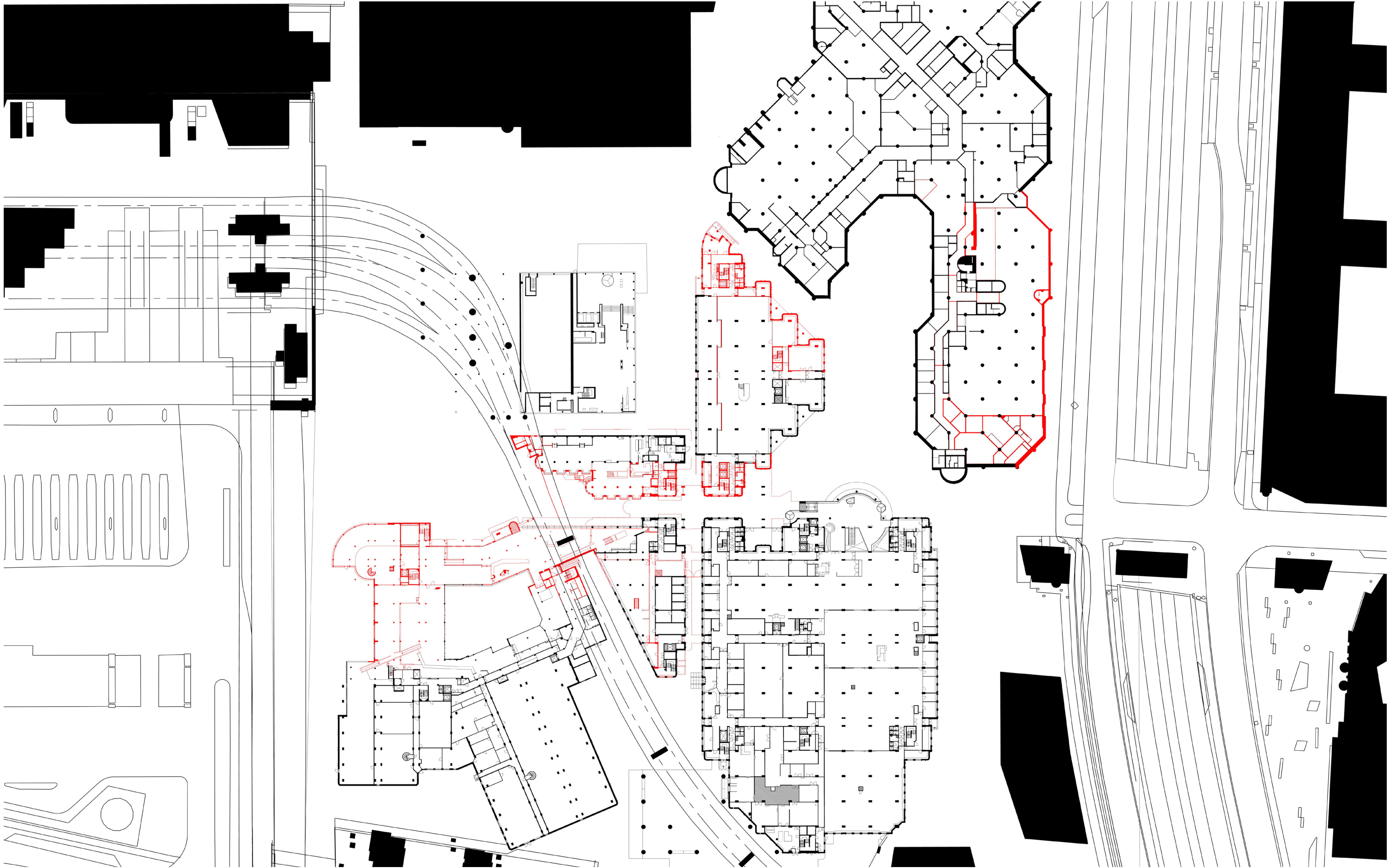
Accessibility through the Area



Phase 0: Current Situation

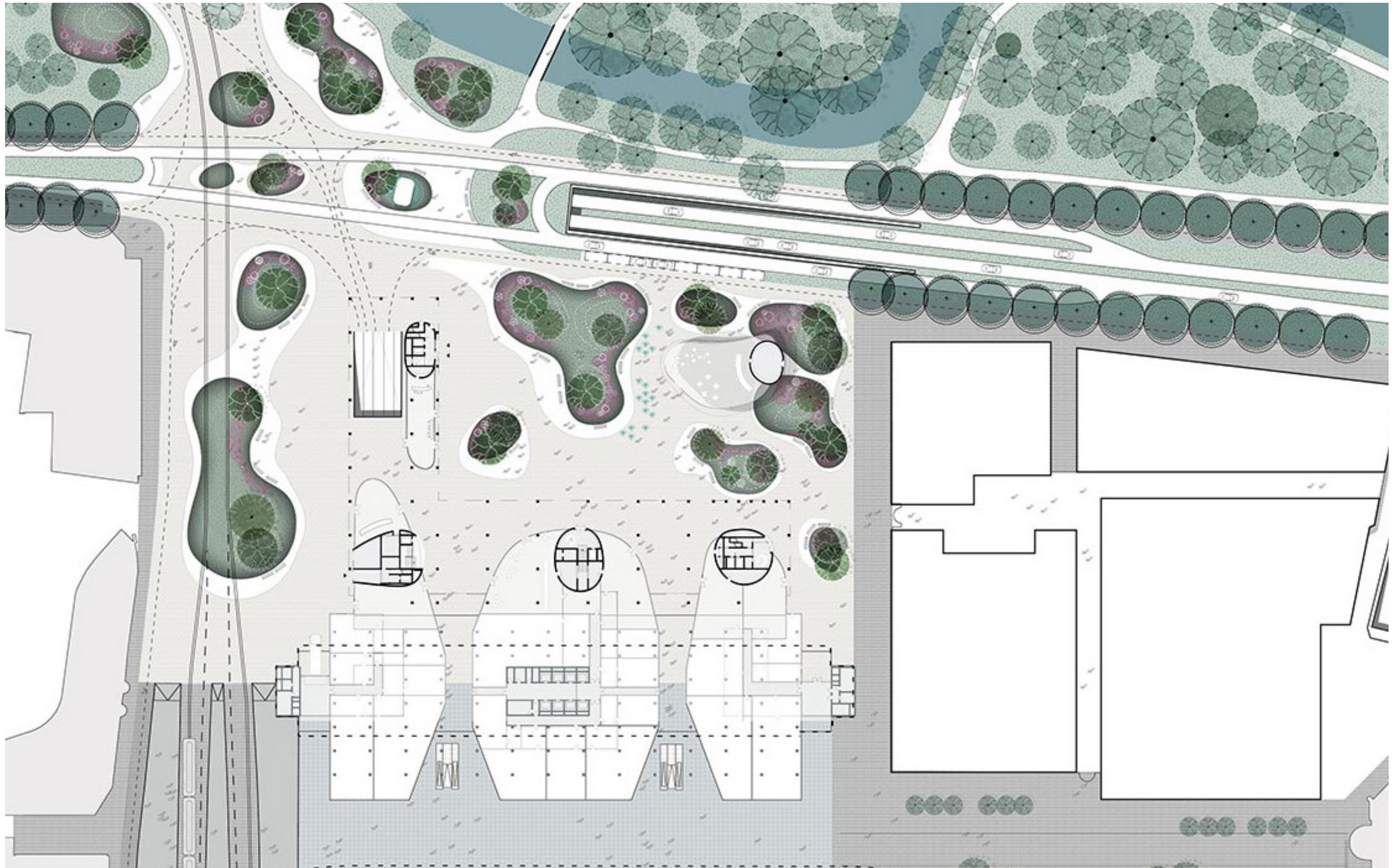


Phase 1: Demolition



Phase 2: Connection and Addition







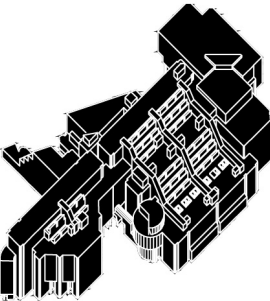
Current Situation | Poor Quality of Public Space





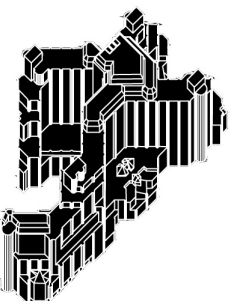






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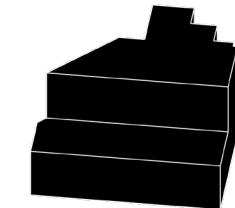
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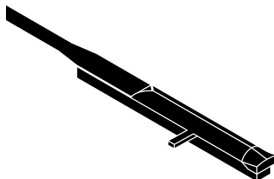
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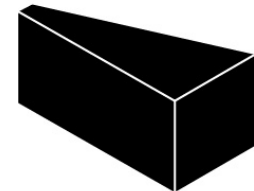
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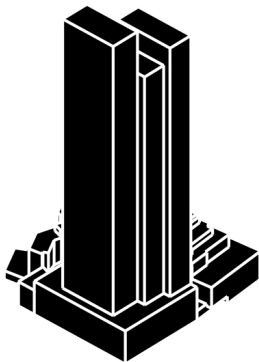
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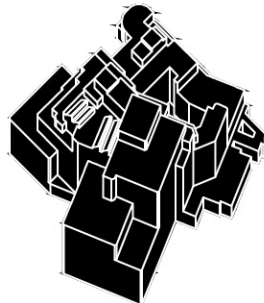
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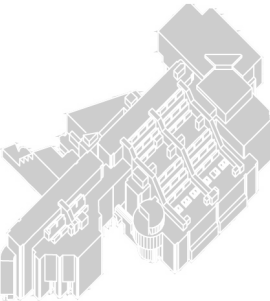
Vertical Campus

- Center of Advanced Virtuality
- Lecture Halls
- Life Long Learning Spaces
- Media Center
- Social Spaces
- Cultural Interactive Spaces
- Sky Lounge
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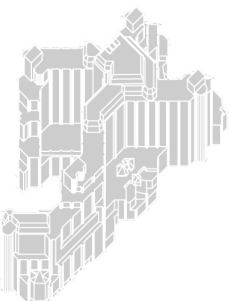
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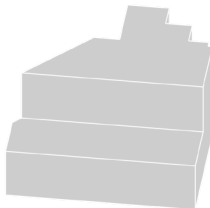
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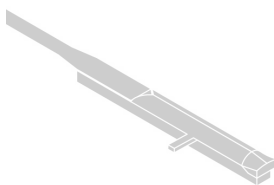
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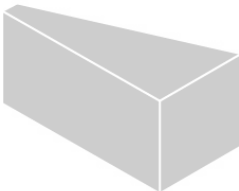
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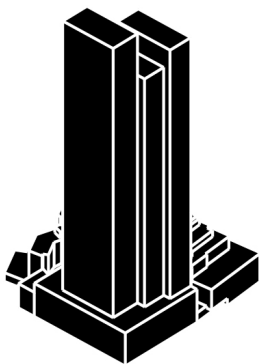
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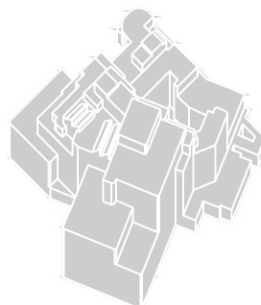
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Vertical Campus

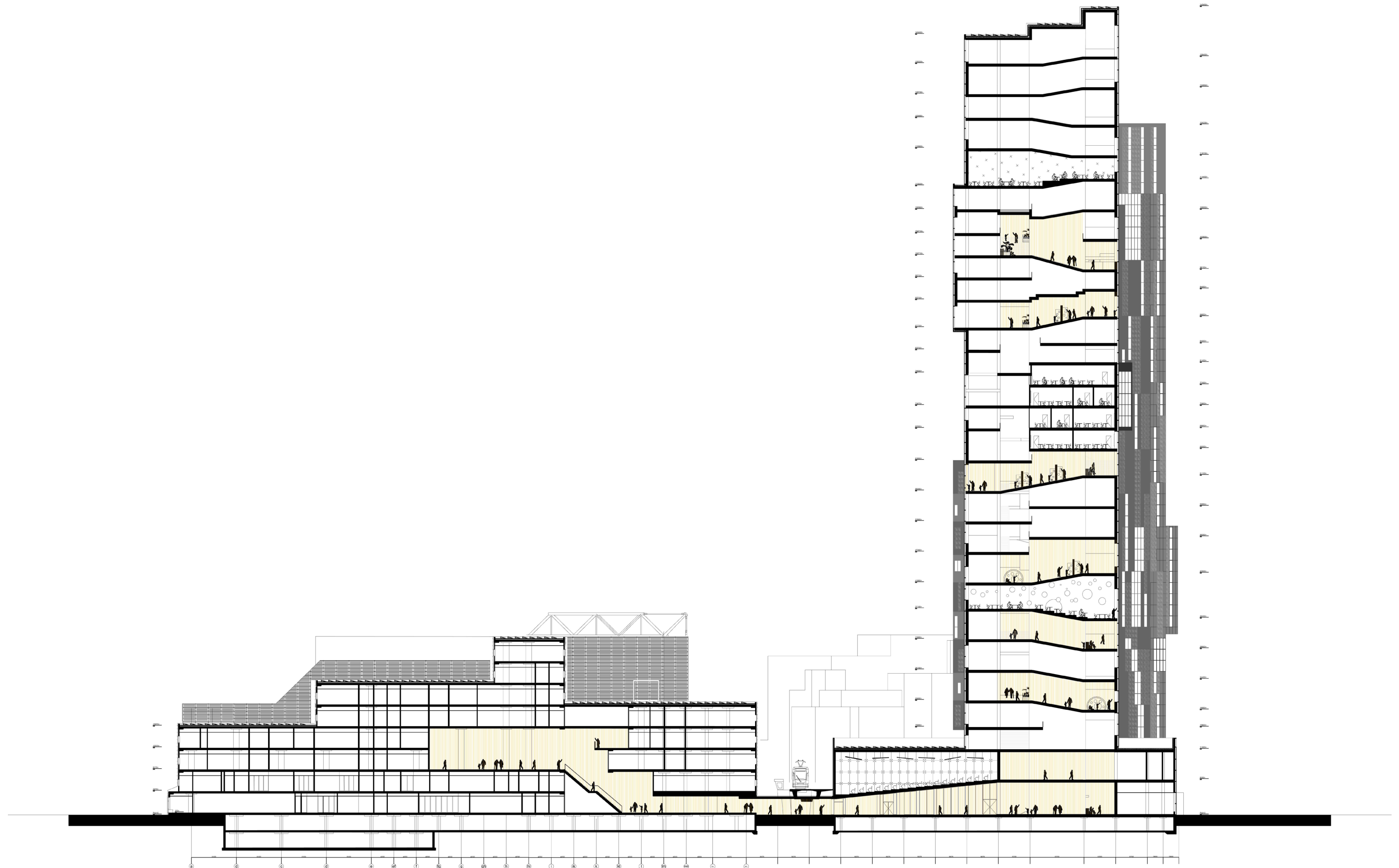
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Urban Section



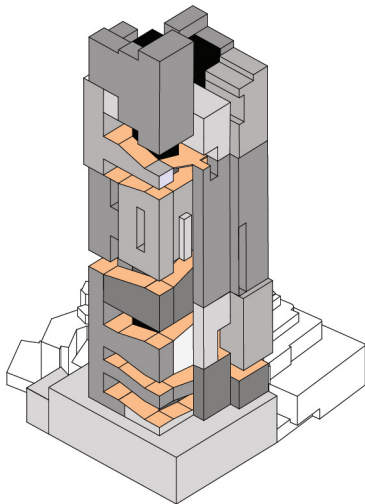
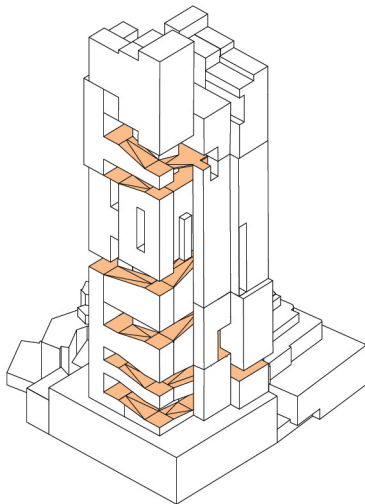
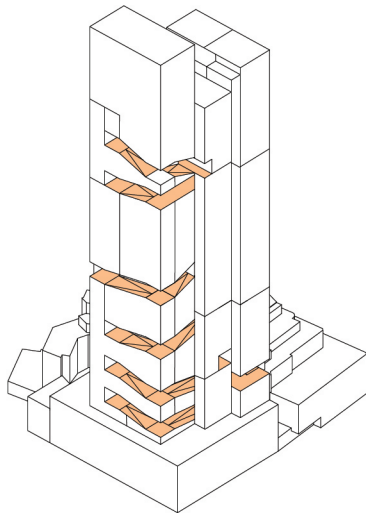
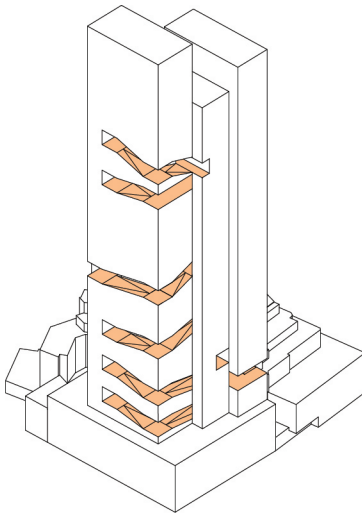
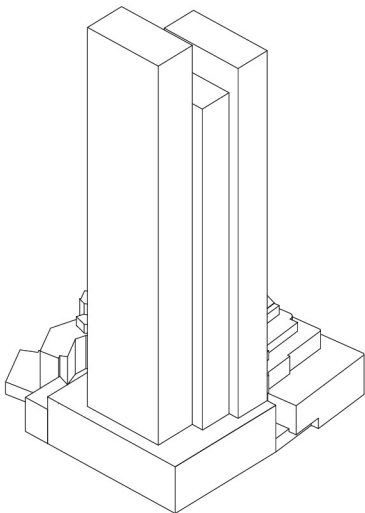
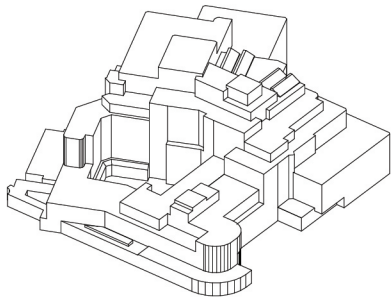
Part I: Research Context

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Exterior Impression





Phase 0:
Current Situation

Phase 1:
Densification

Phase 2:
Circulation

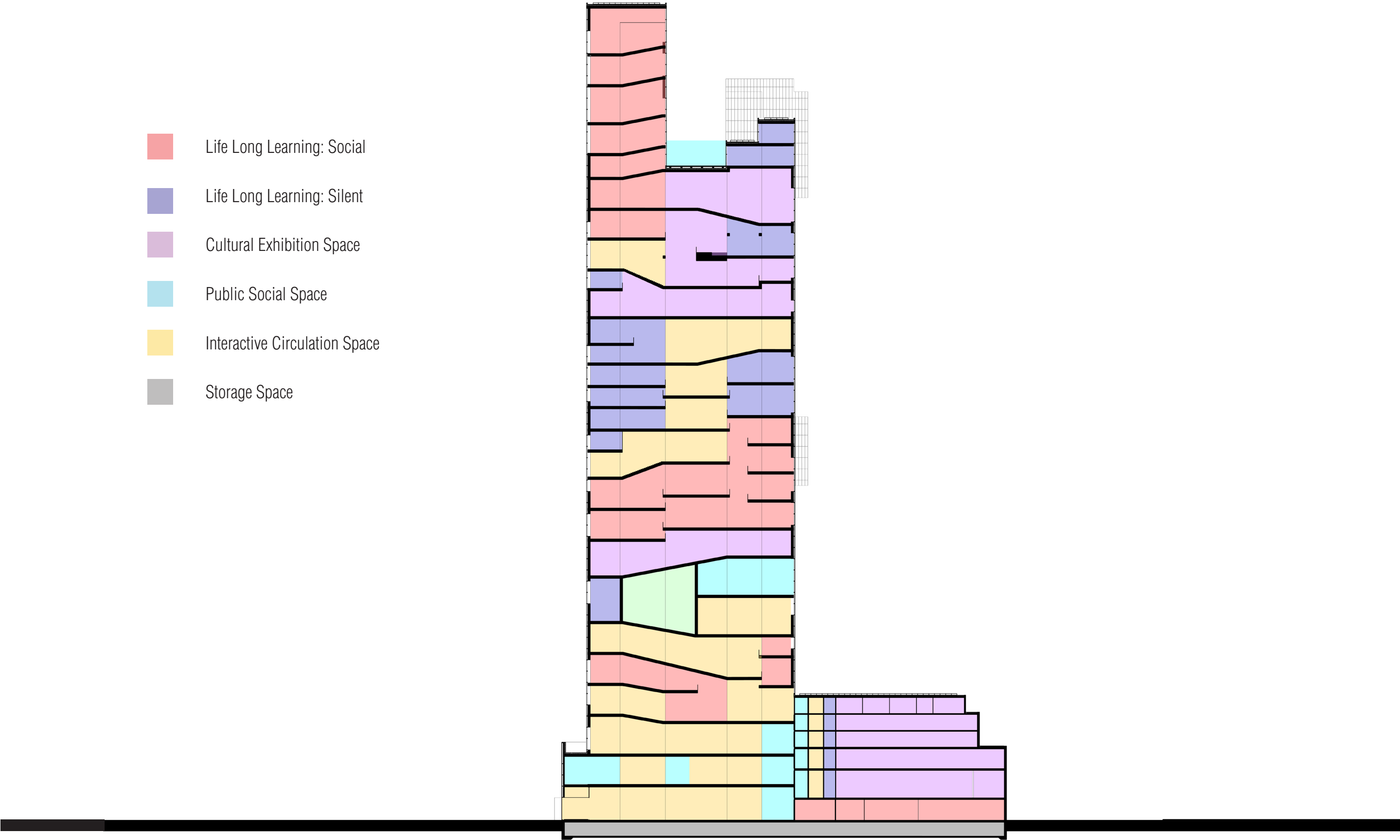
Phase 3:
Clustering

Phase 4:
Transform

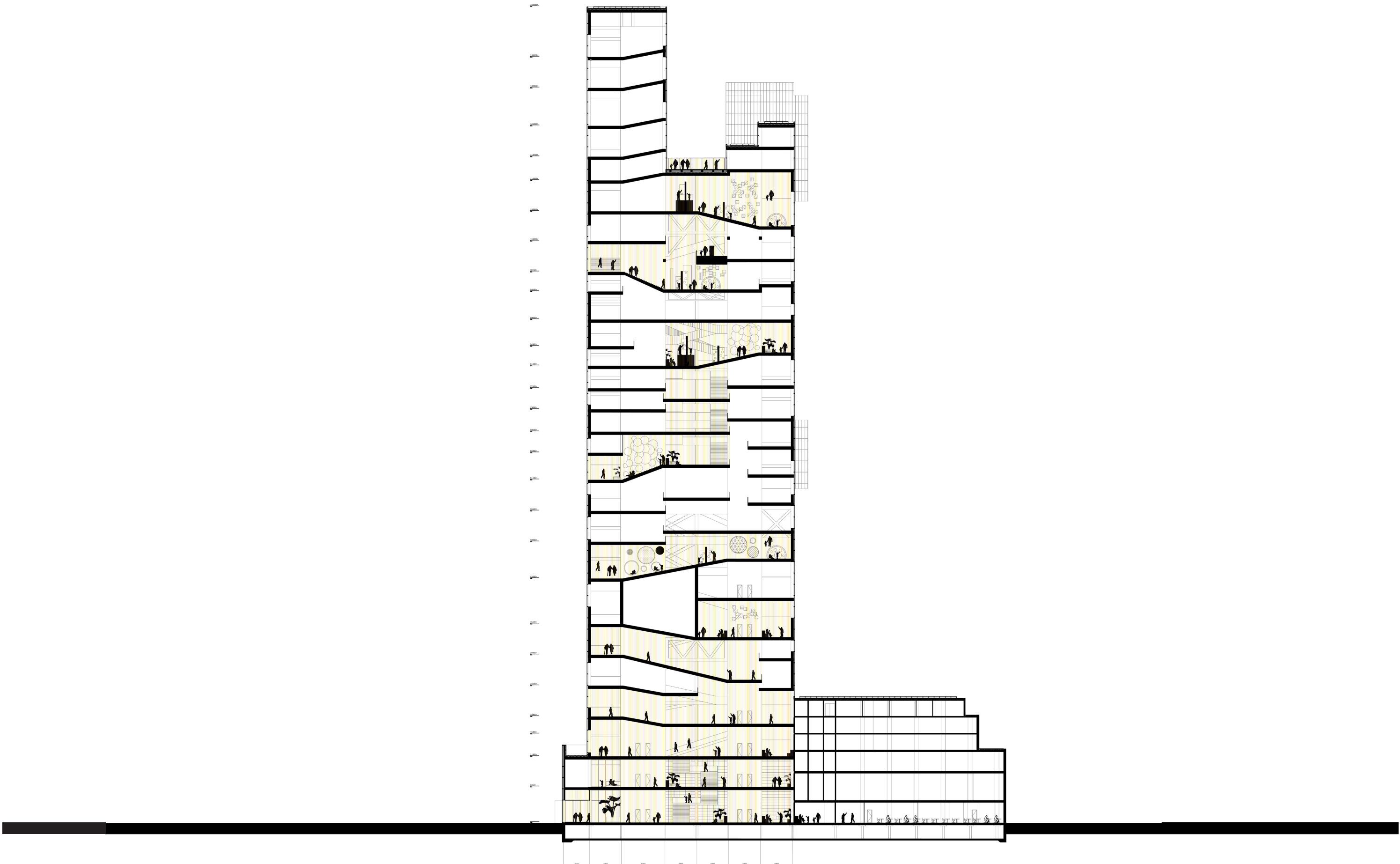
Phase 5:
Program

Programmatic Section

- Life Long Learning: Social
- Life Long Learning: Silent
- Cultural Exhibition Space
- Public Social Space
- Interactive Circulation Space
- Storage Space



Section Archive



Building Plot



Ground Floorplan

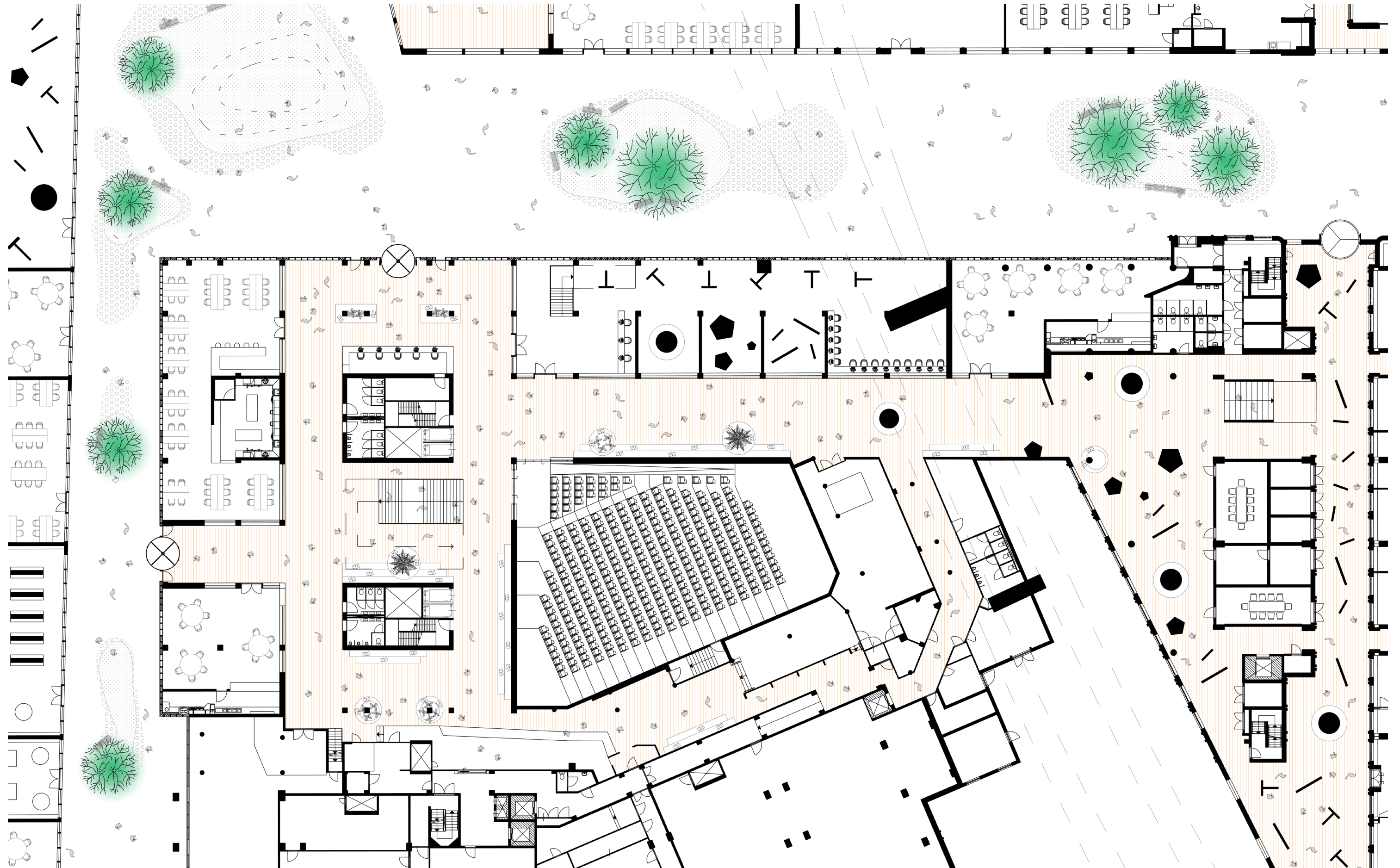




Diagram Circulation

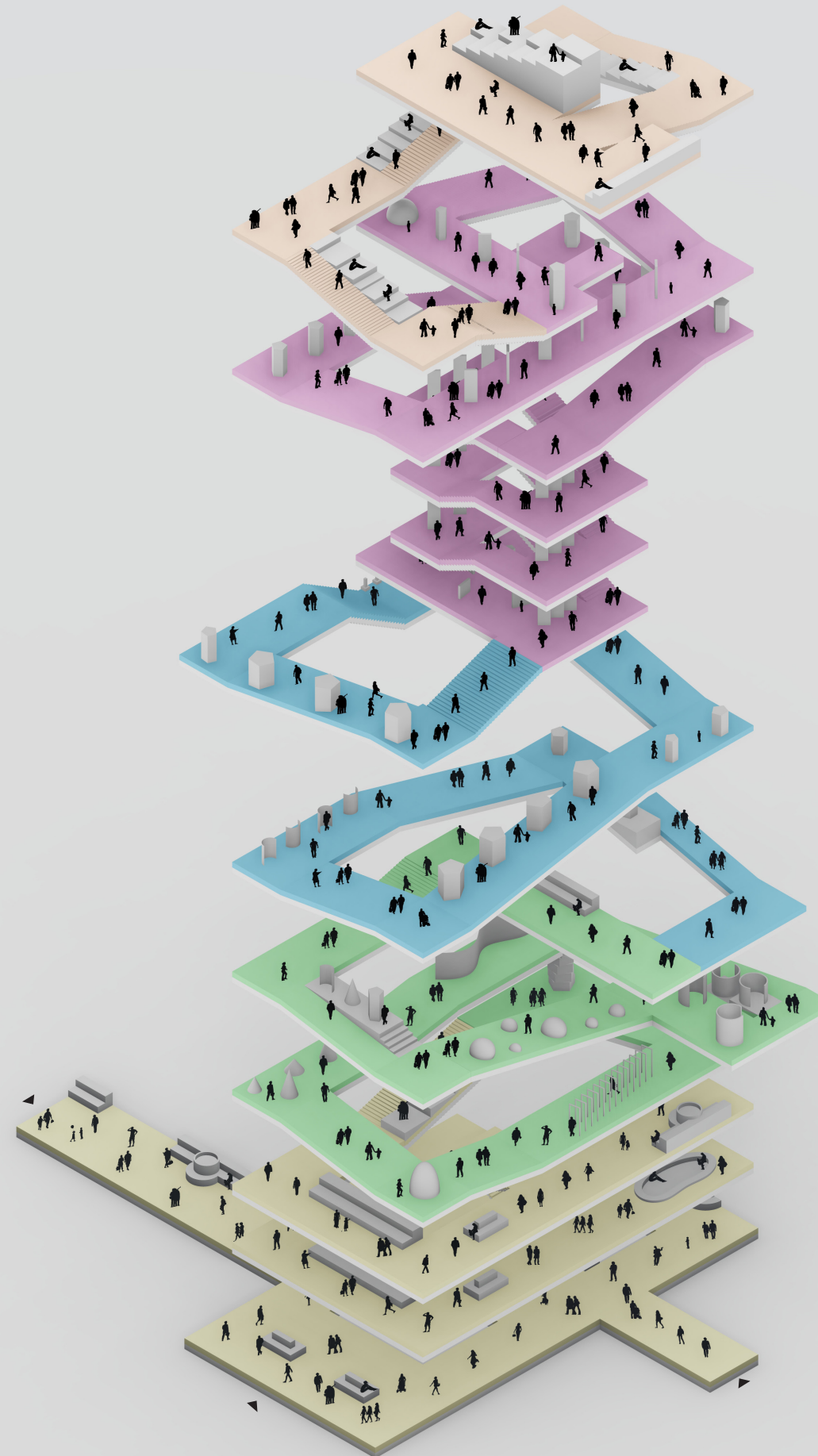
Relax

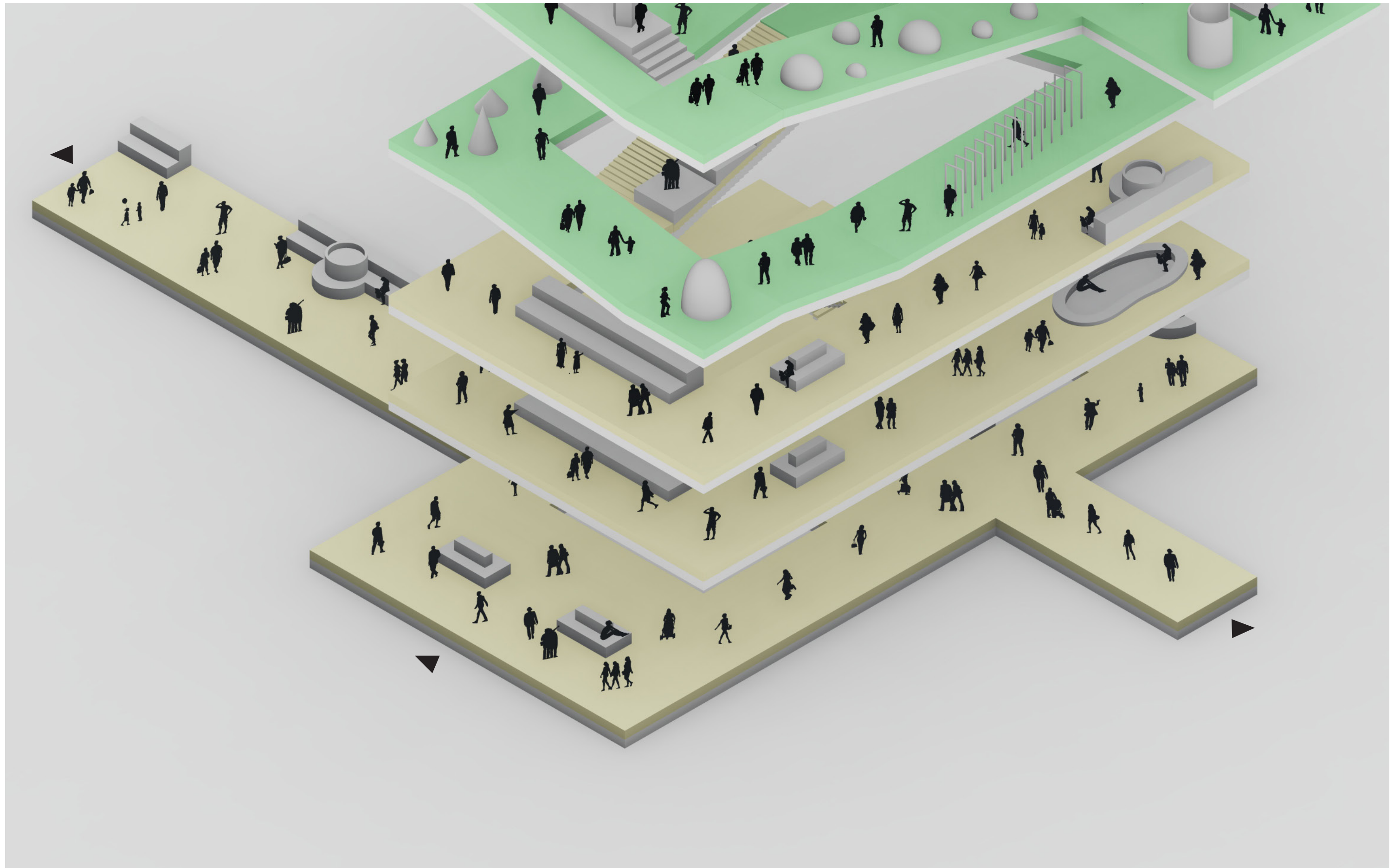
Exhibit

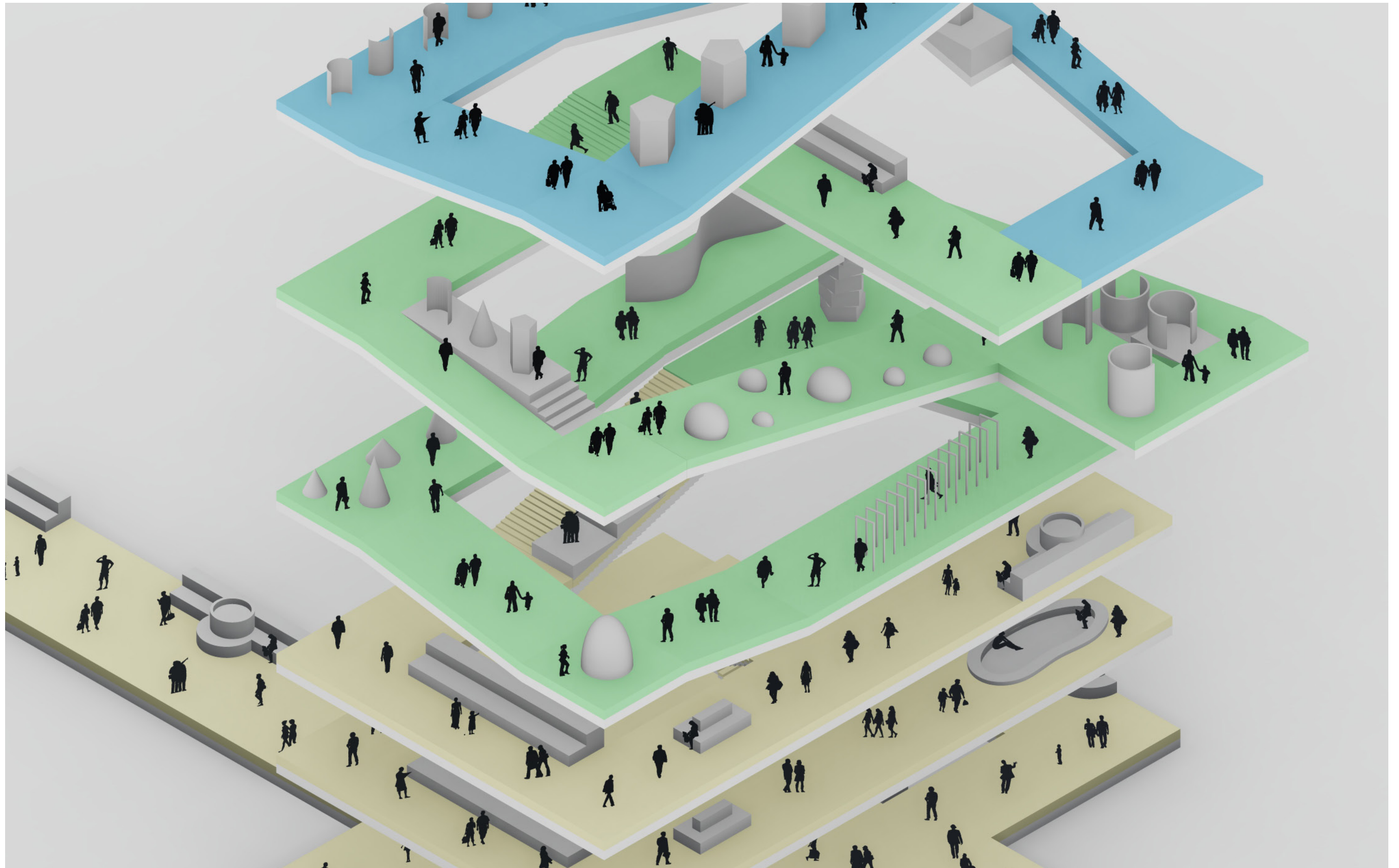
Interact

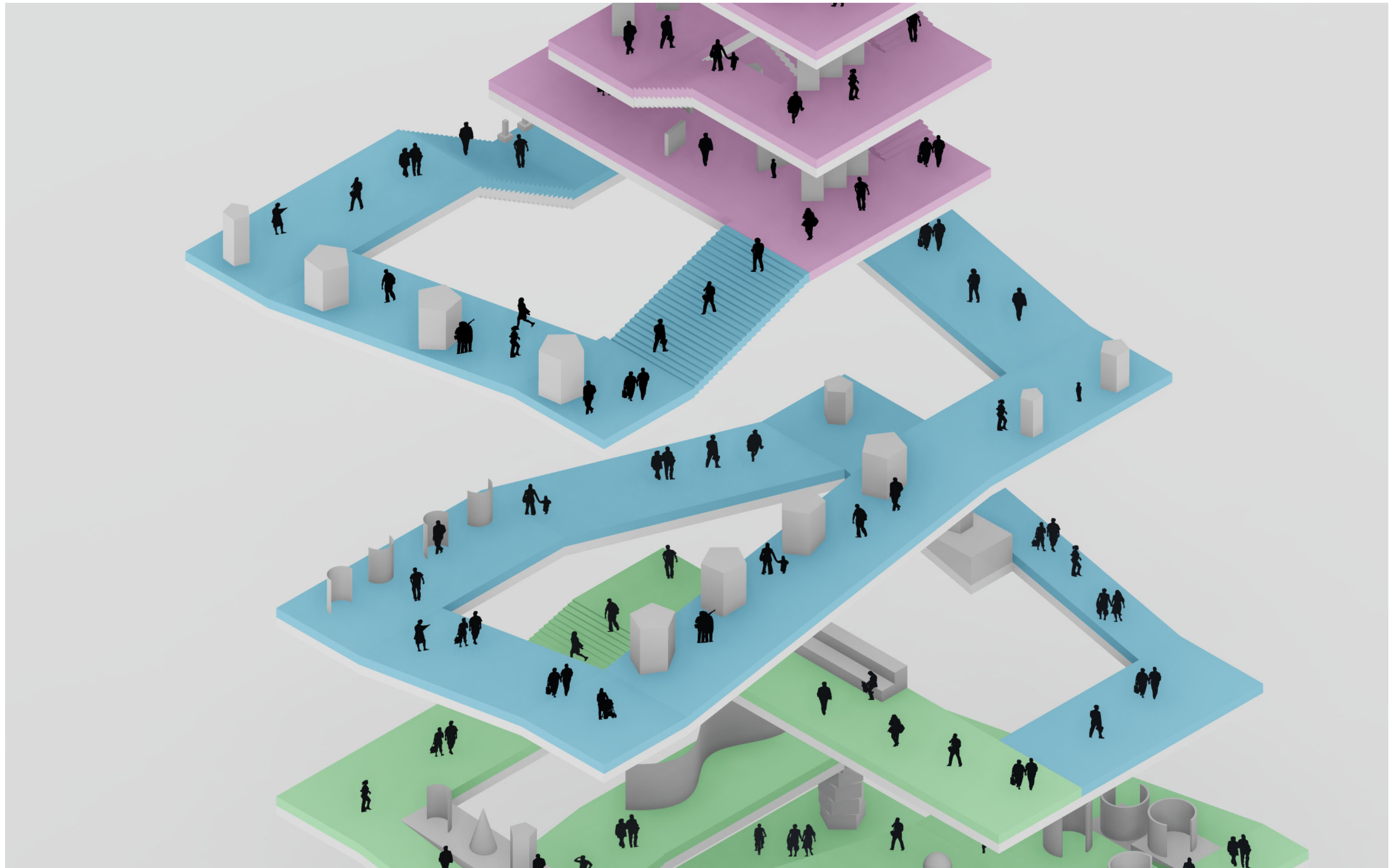
Experience

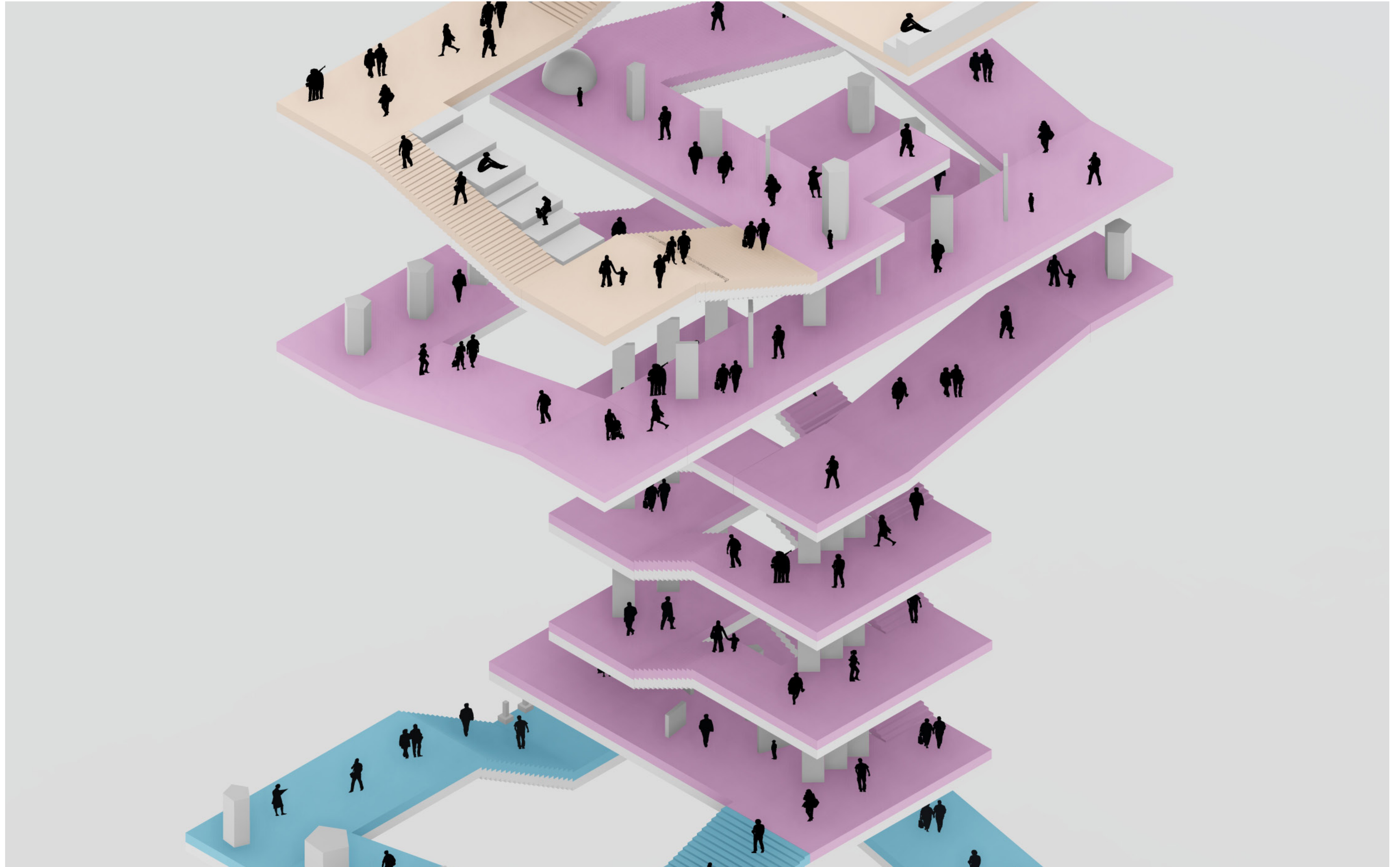
Connect

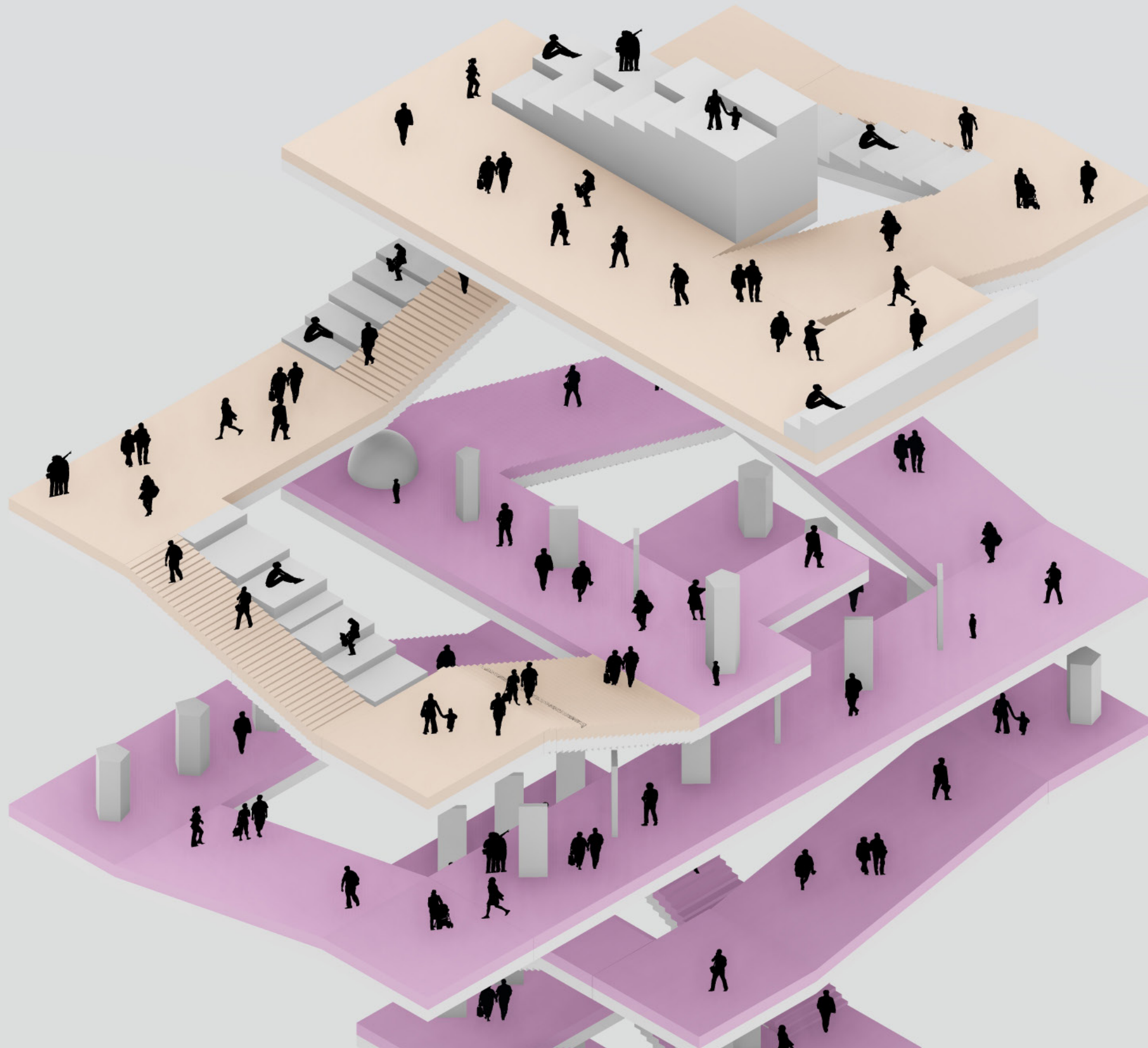


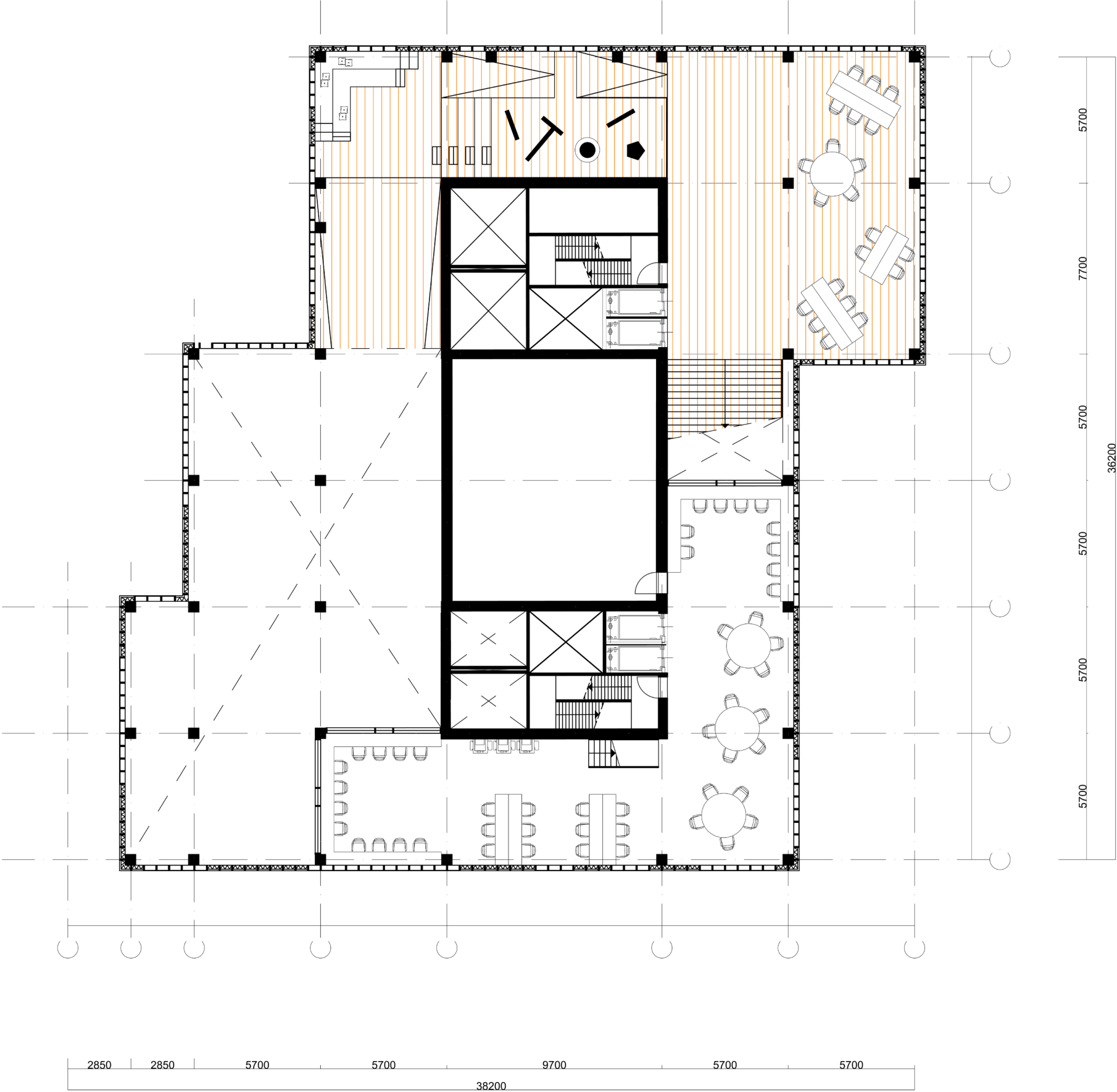










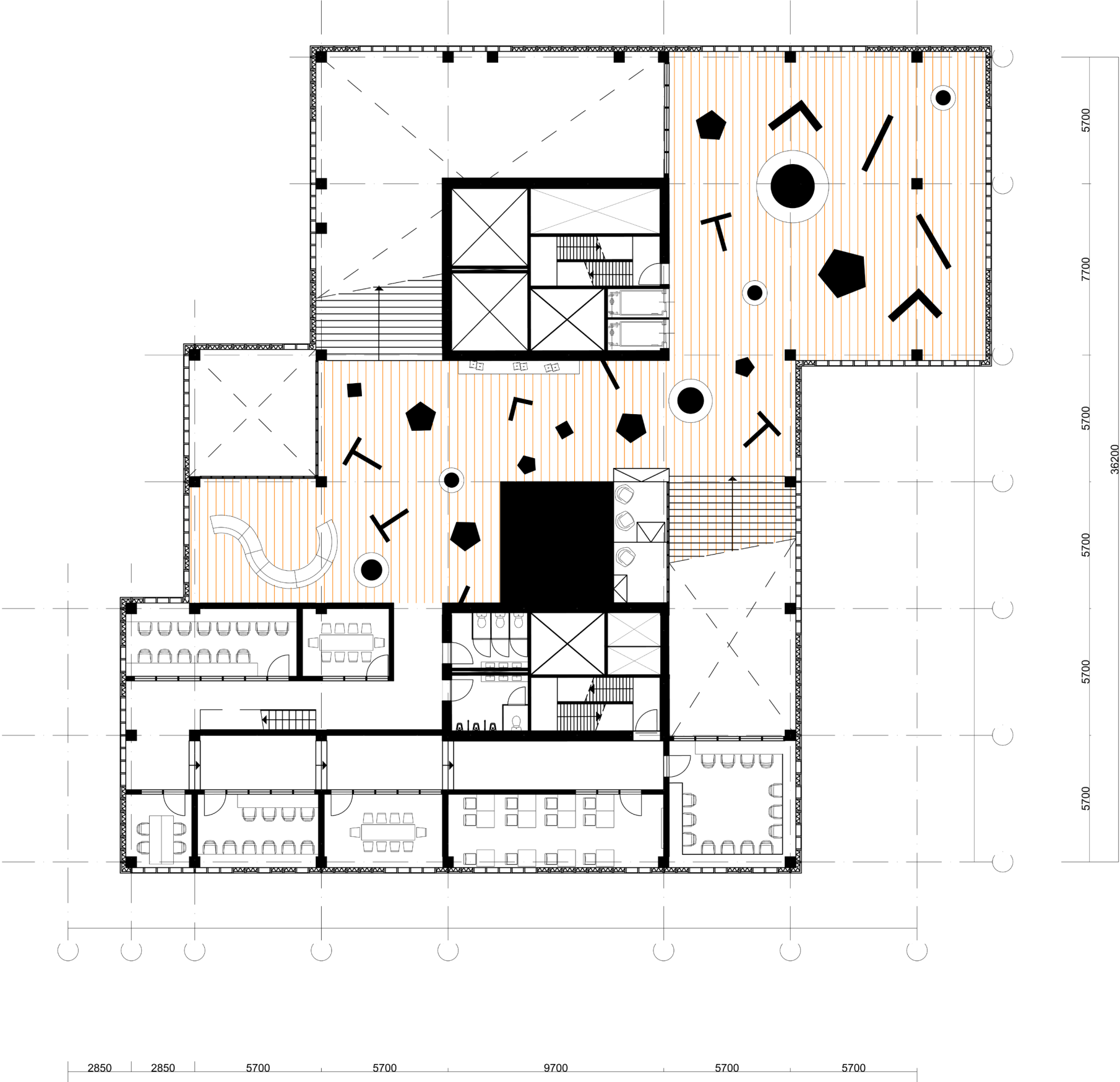


Floorplan Education

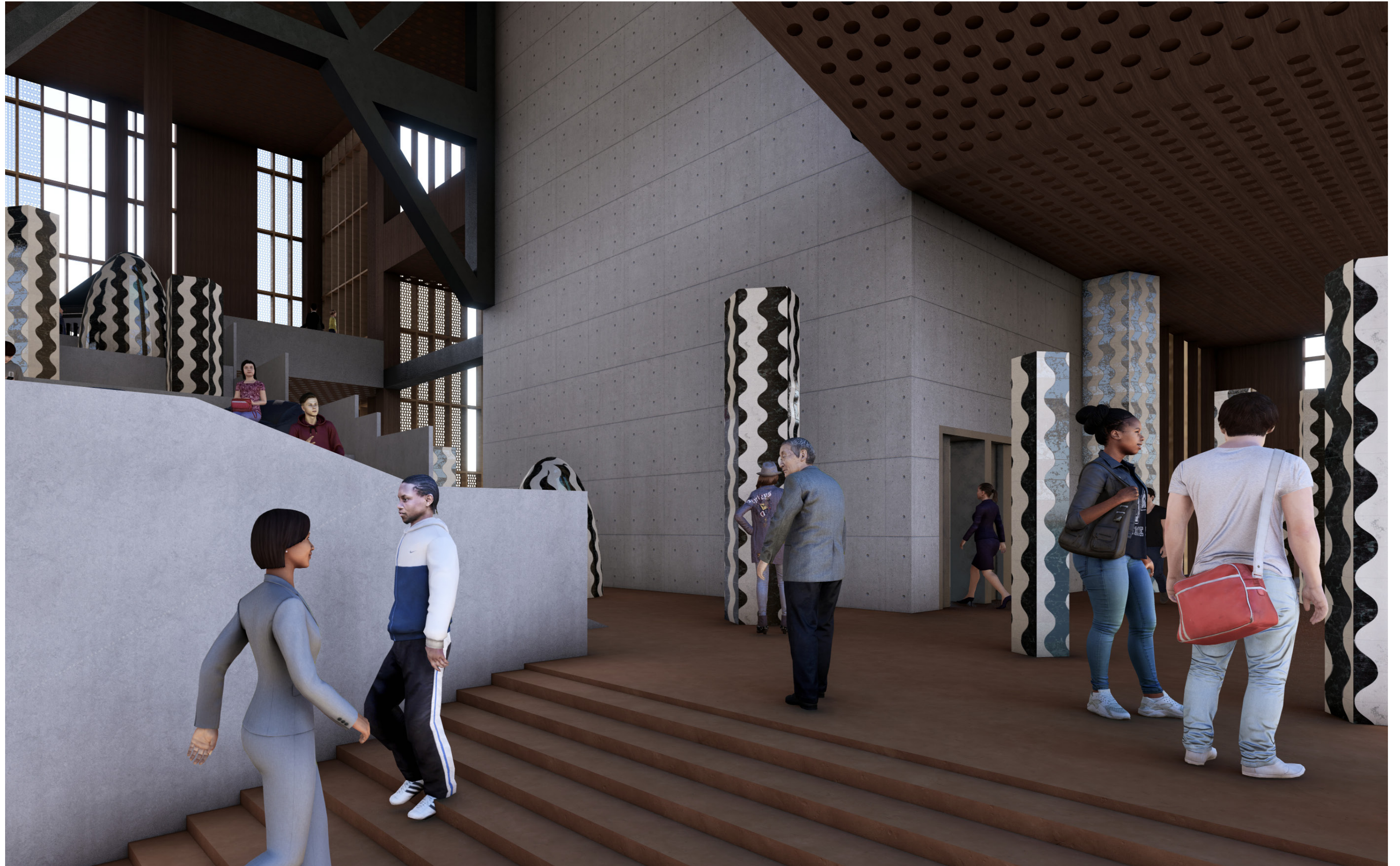


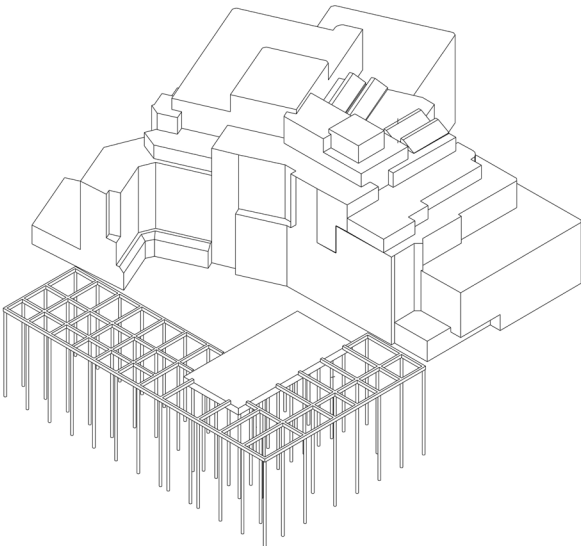




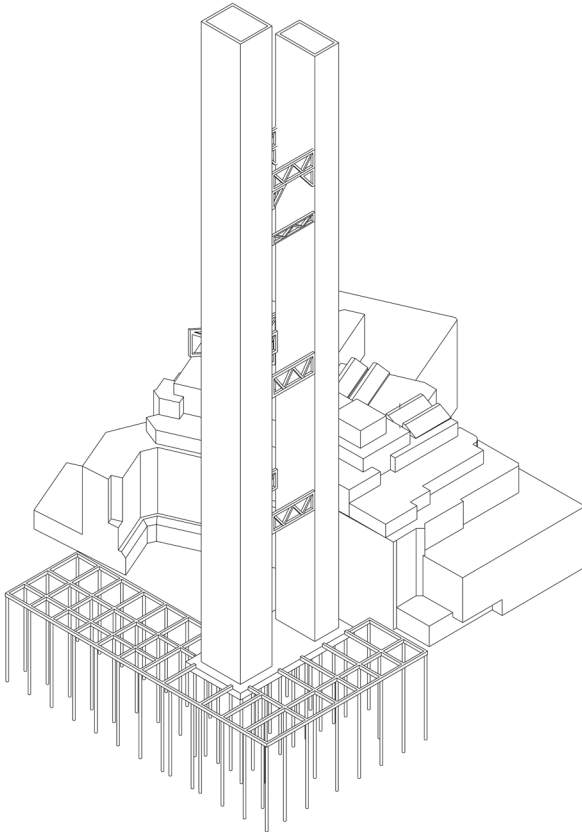




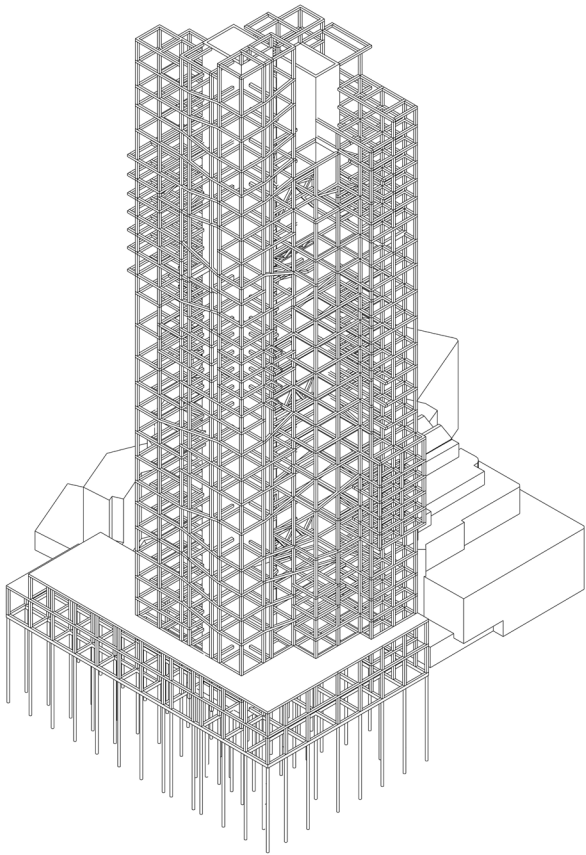




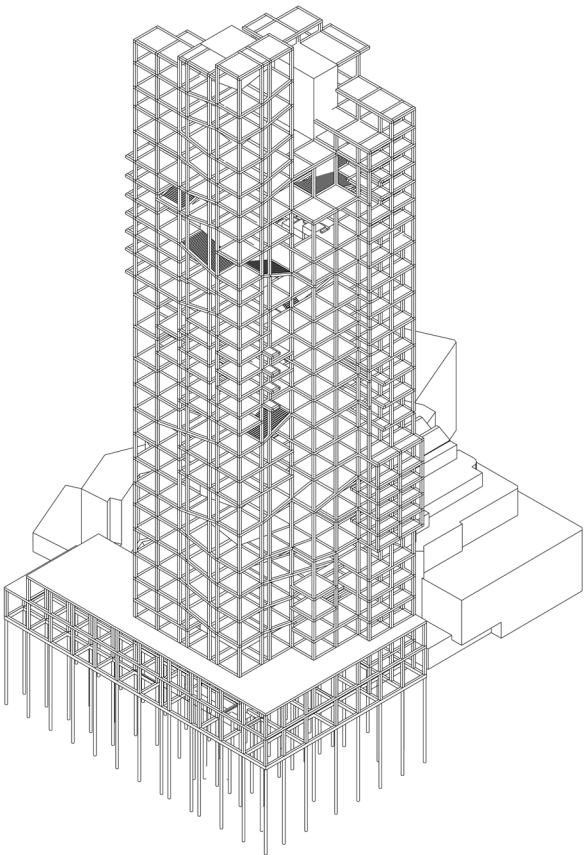
Phase 0:
Foundation



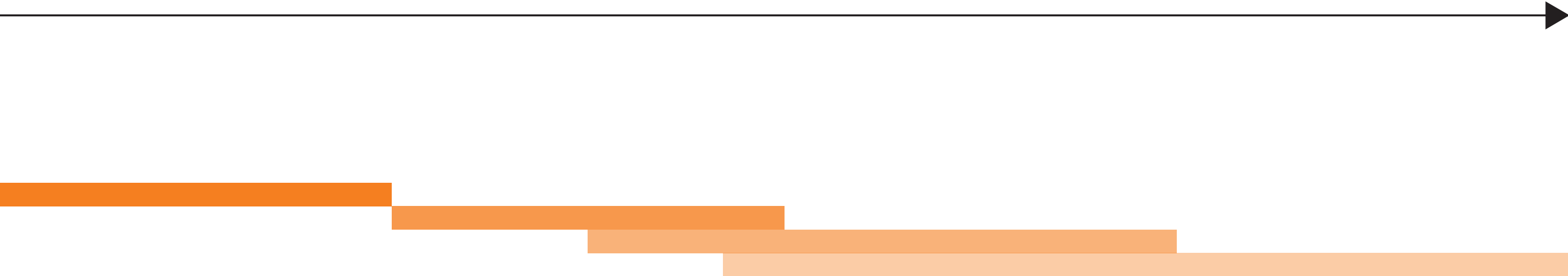
Phase 1:
Core

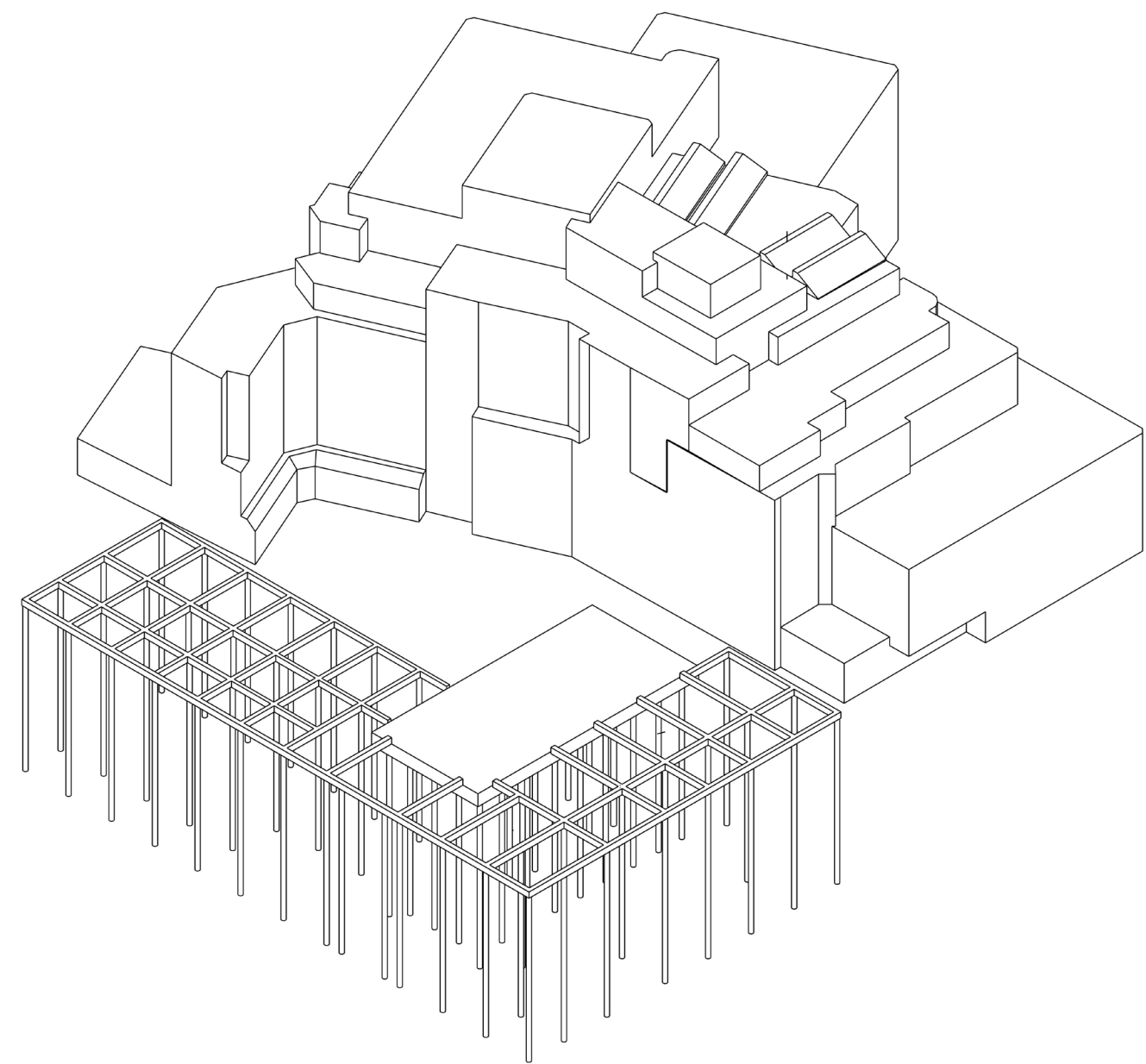


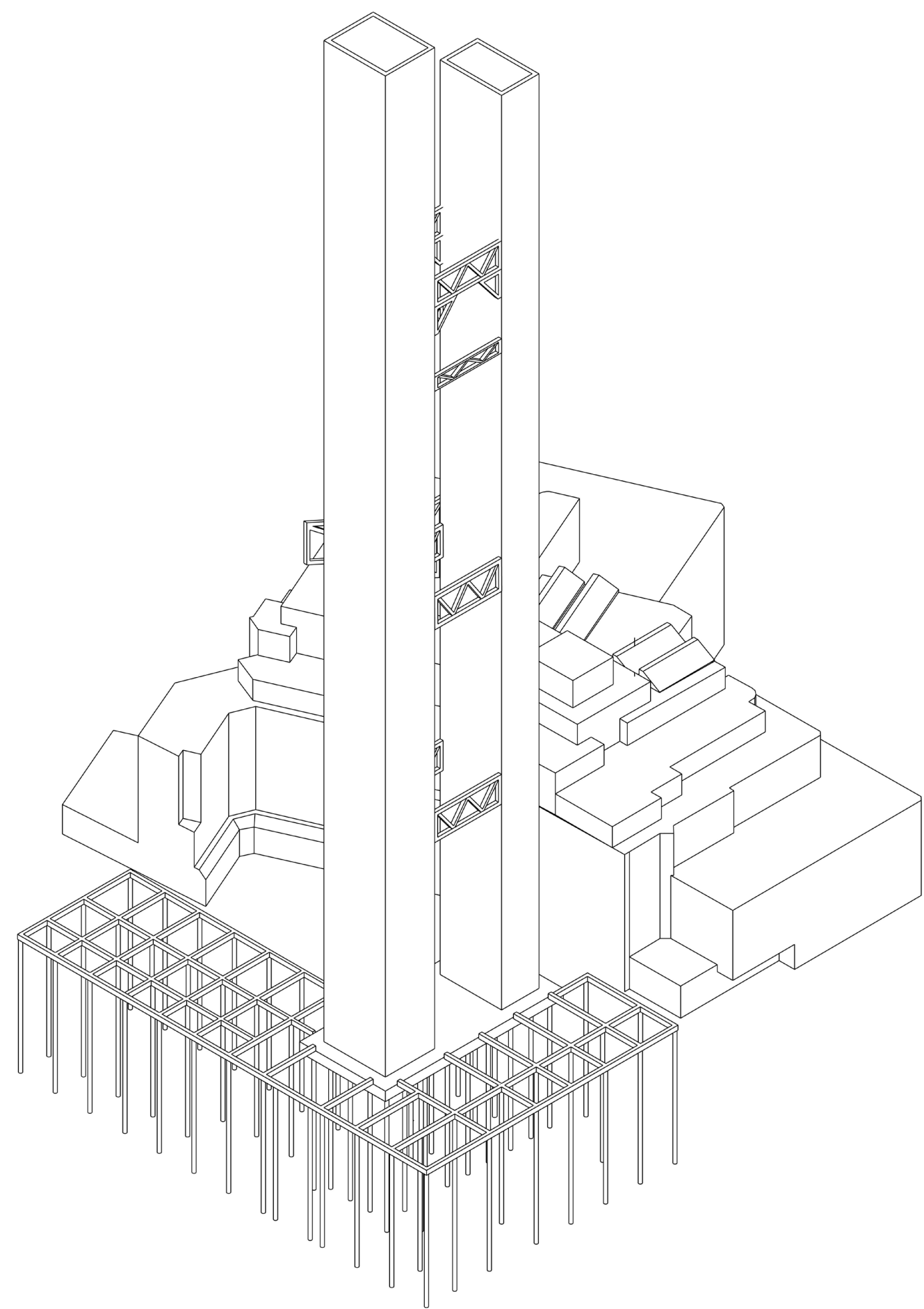
Phase 2:
Steel Structure

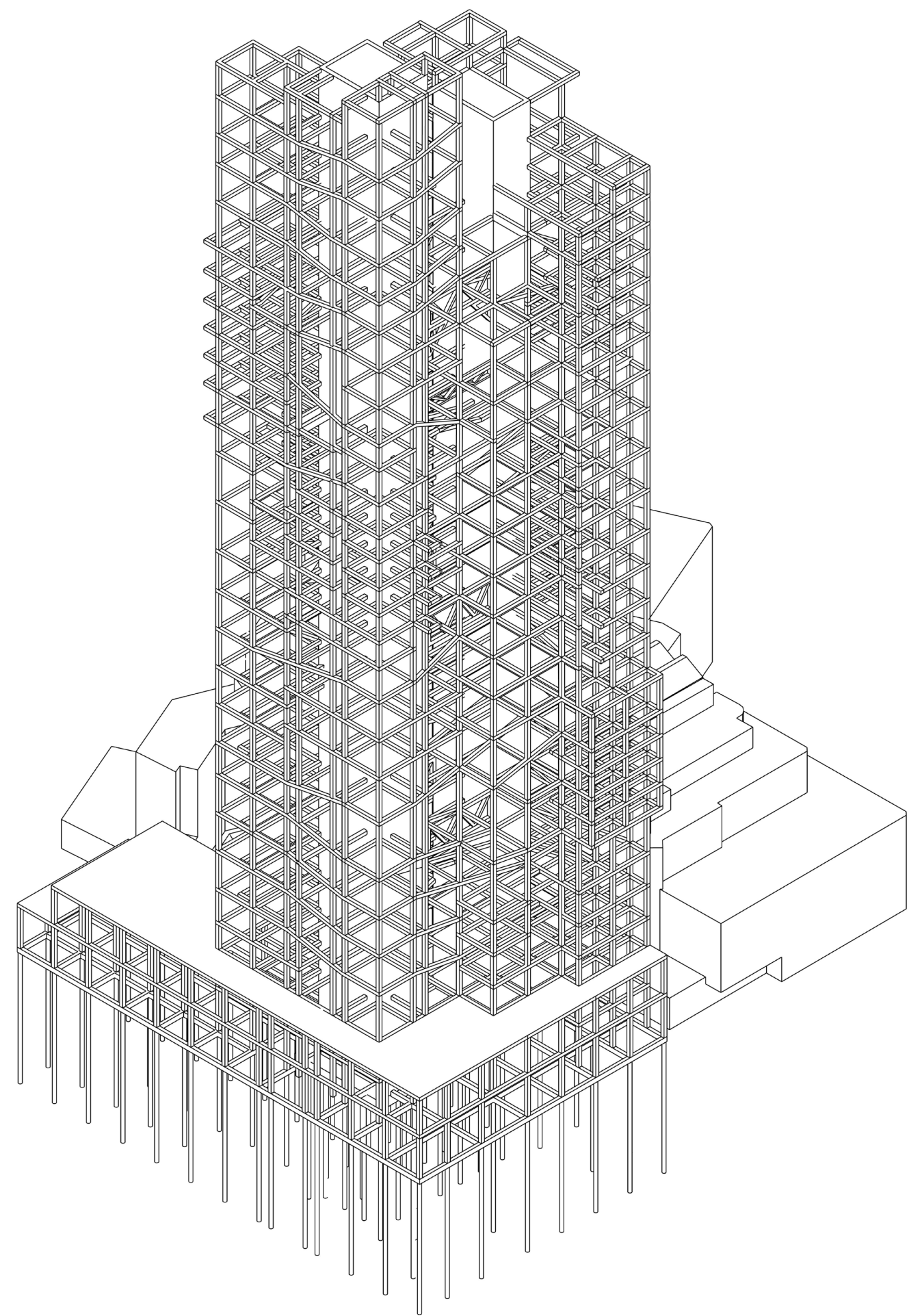


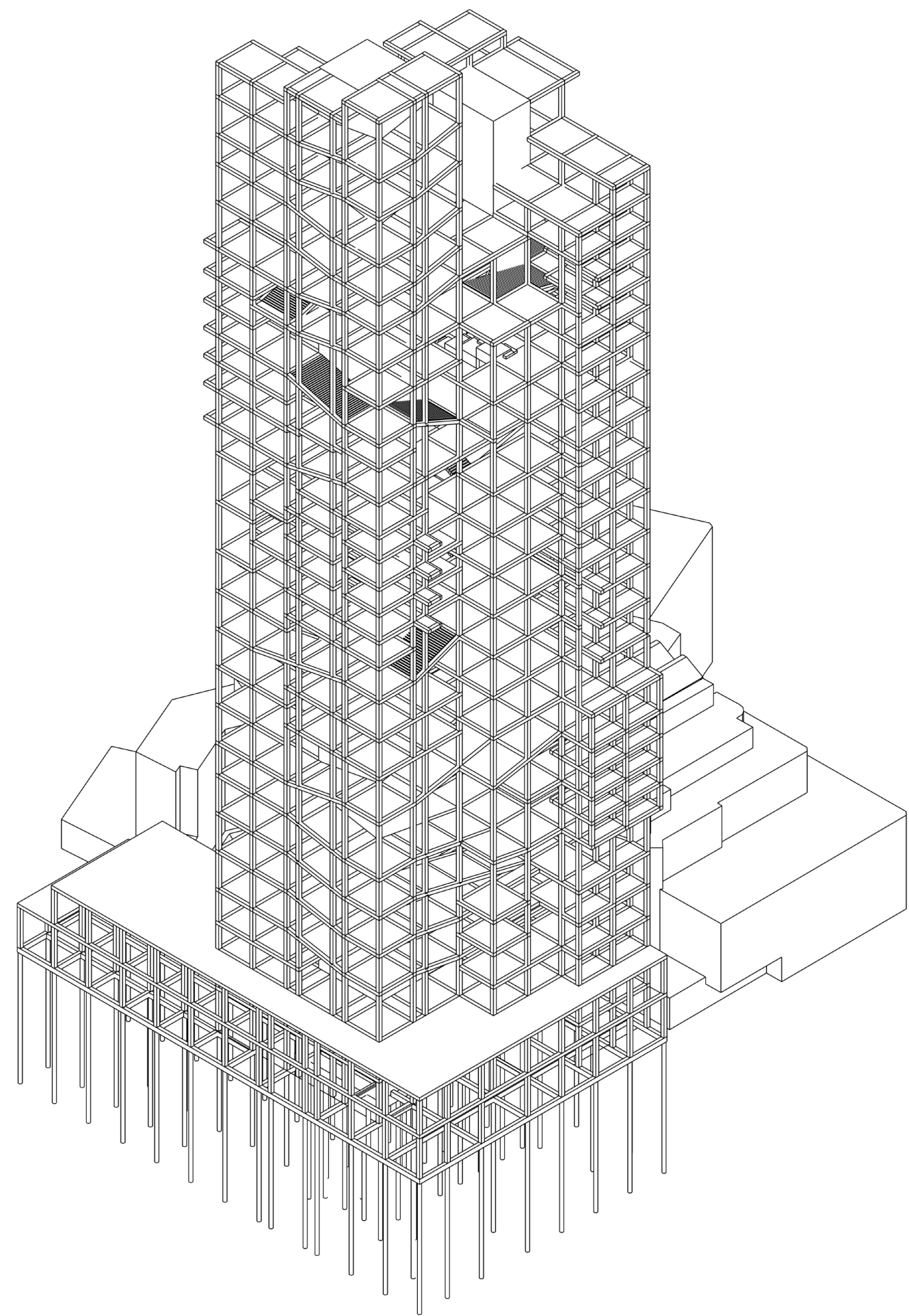
Phase 3:
Wooden Floors













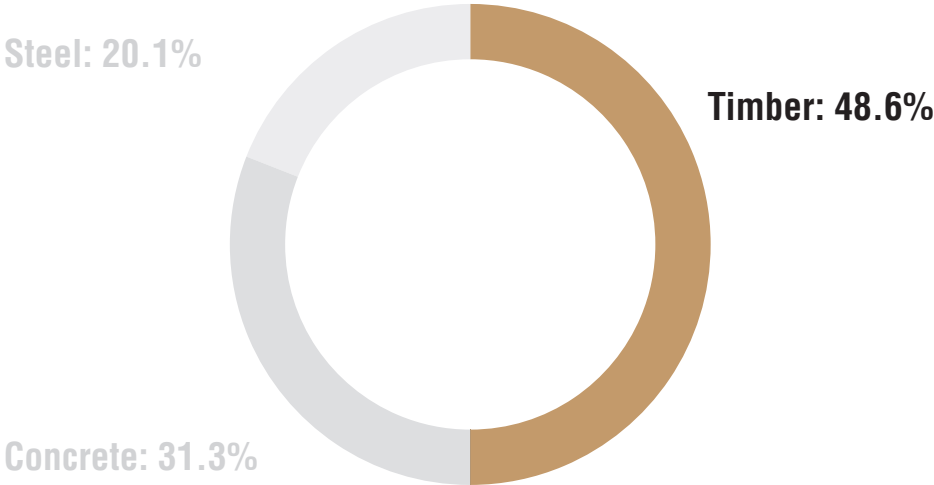
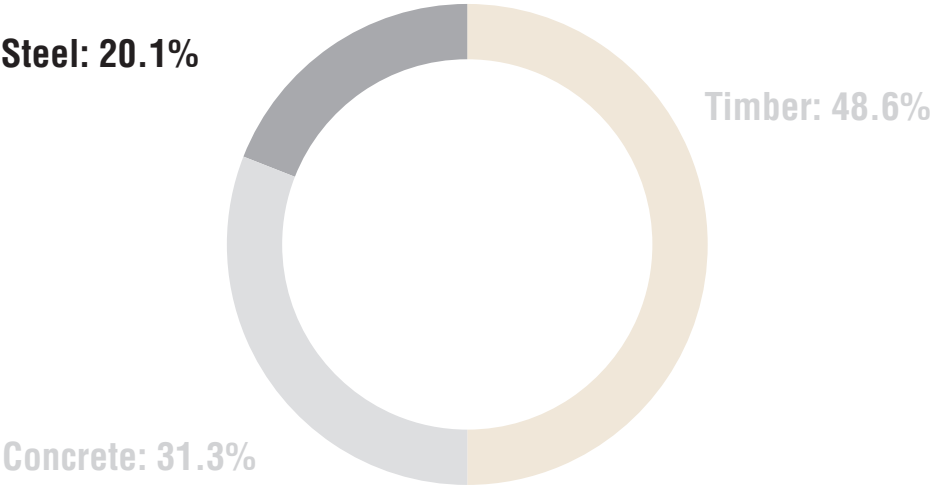
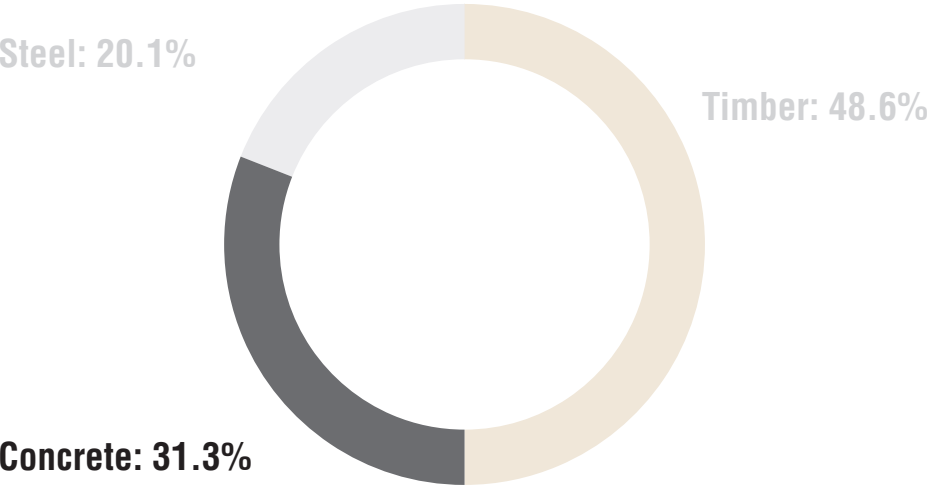
Concrete Core



Steel Columns & Beams



Wooden Floor





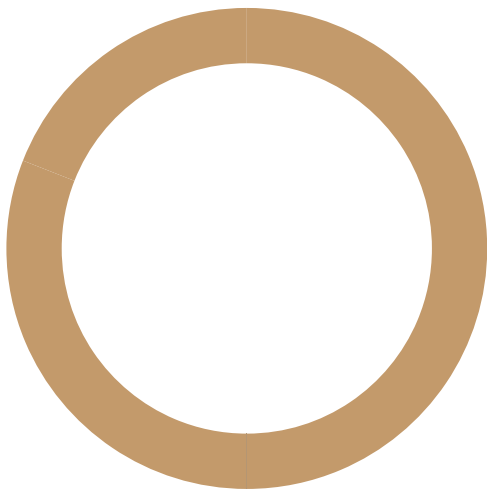
Lignatur Floor



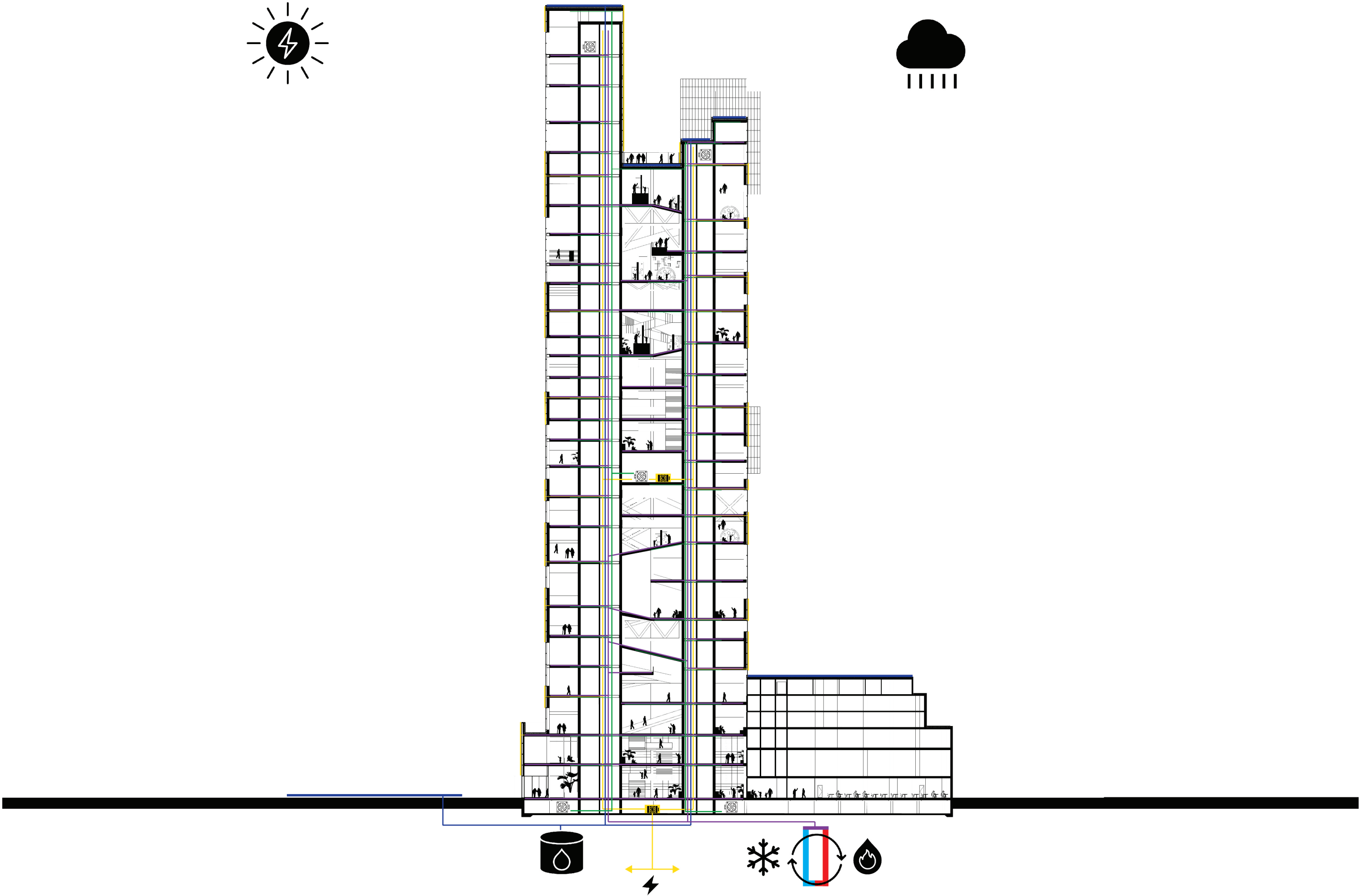
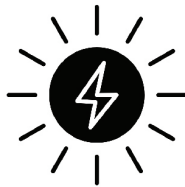
CLT Floor

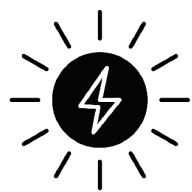


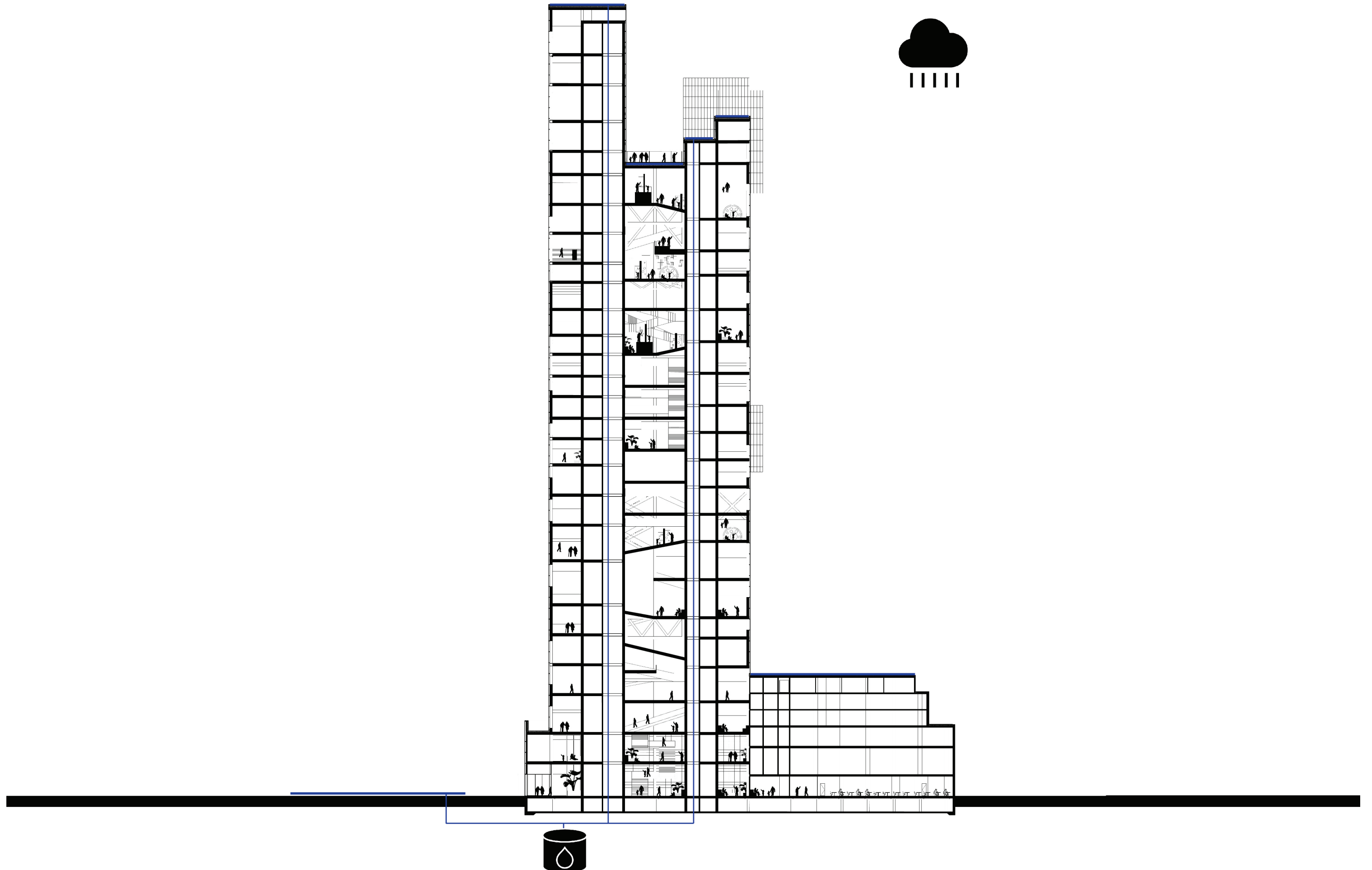
Timber: 50%

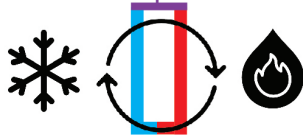
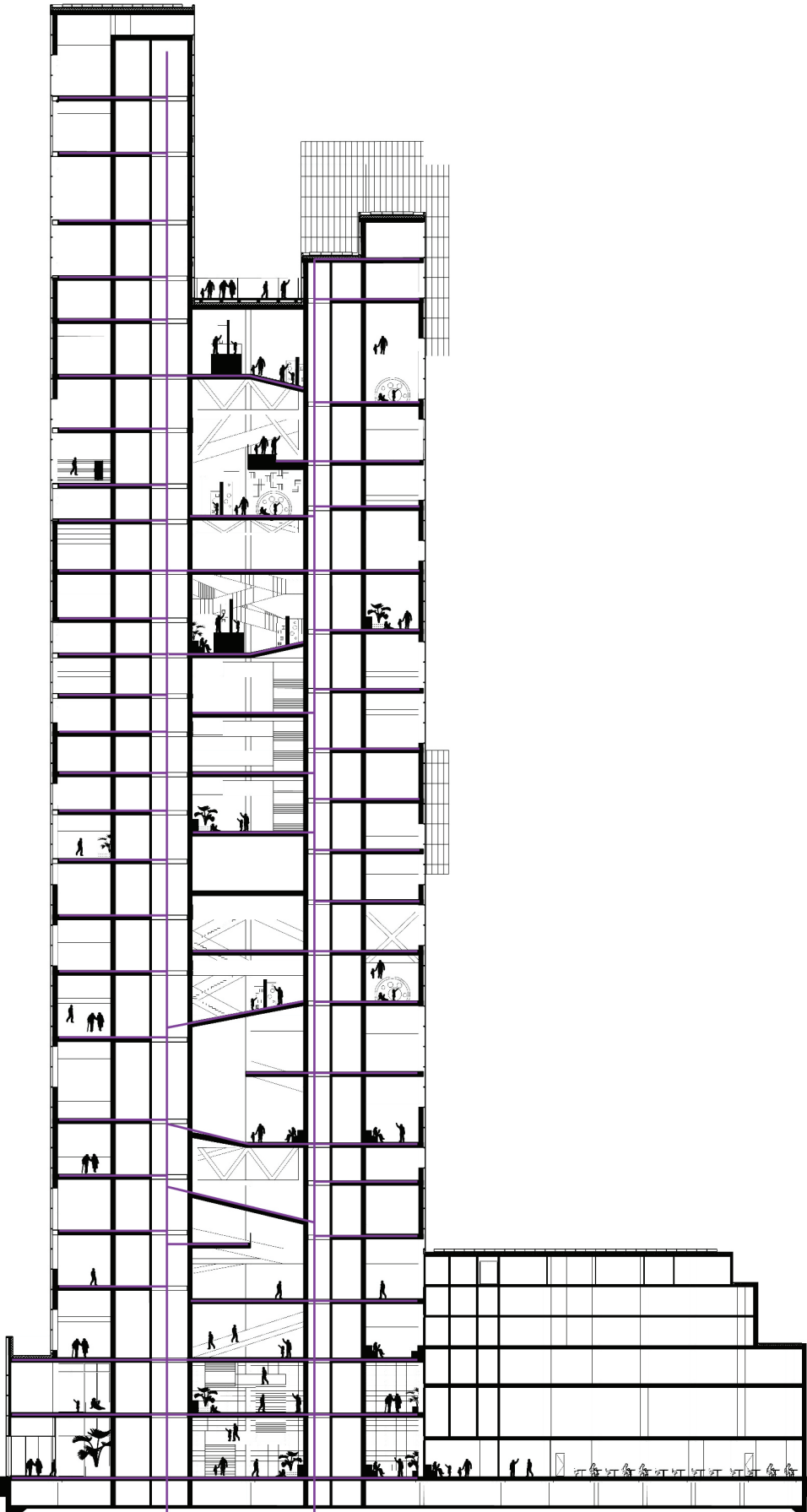


Timber: 100%



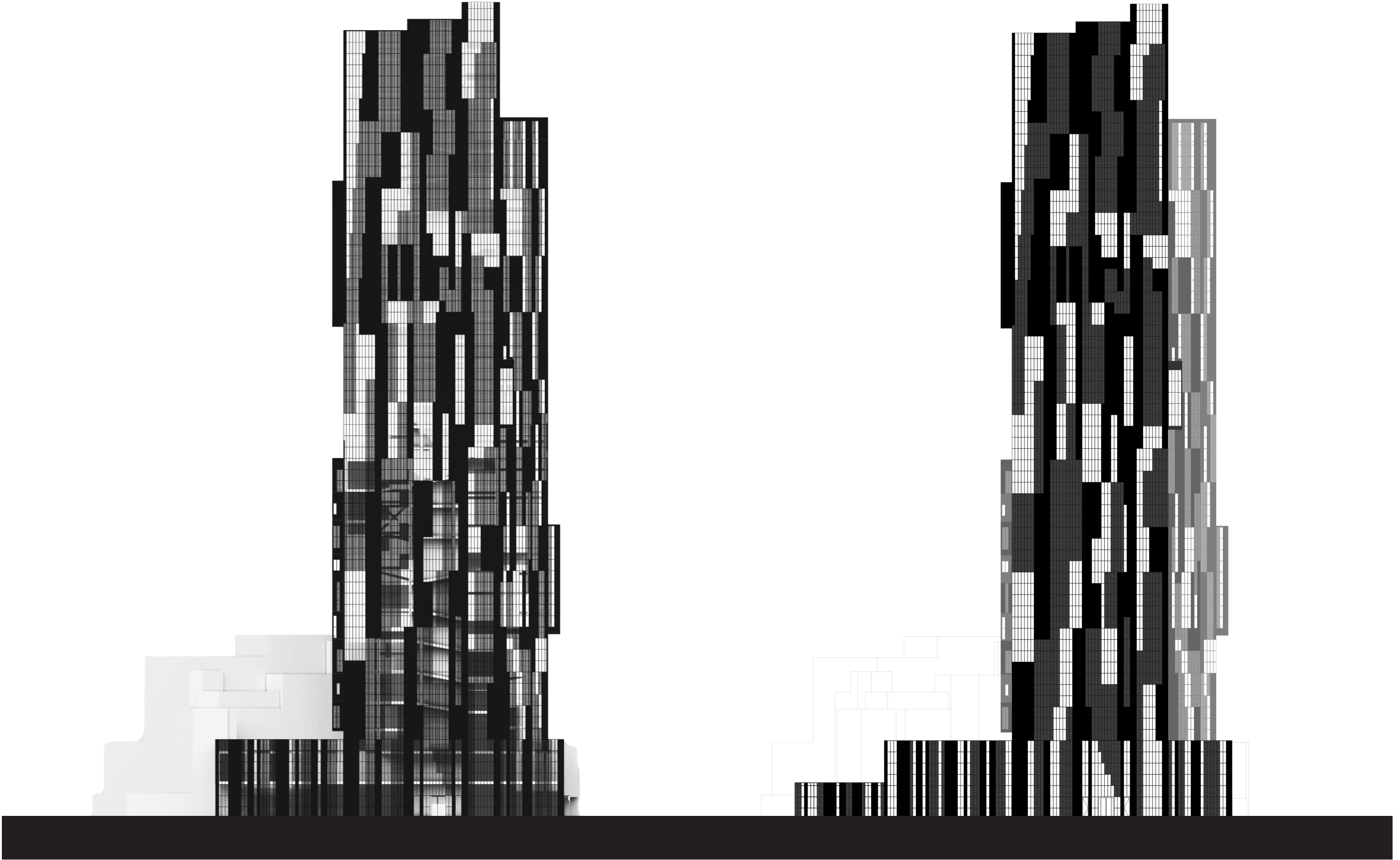




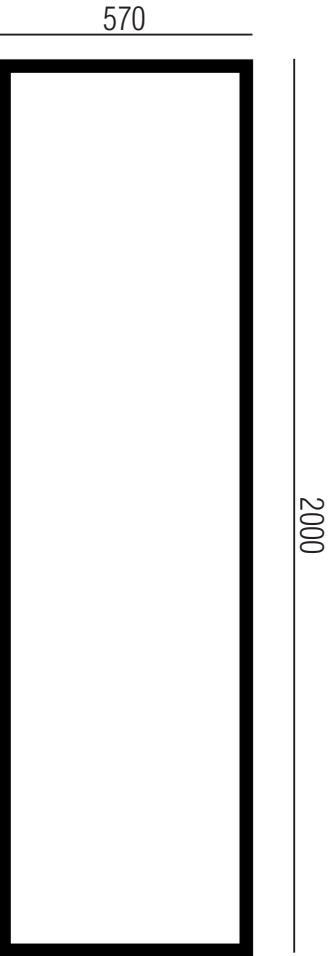




Facade Elevation



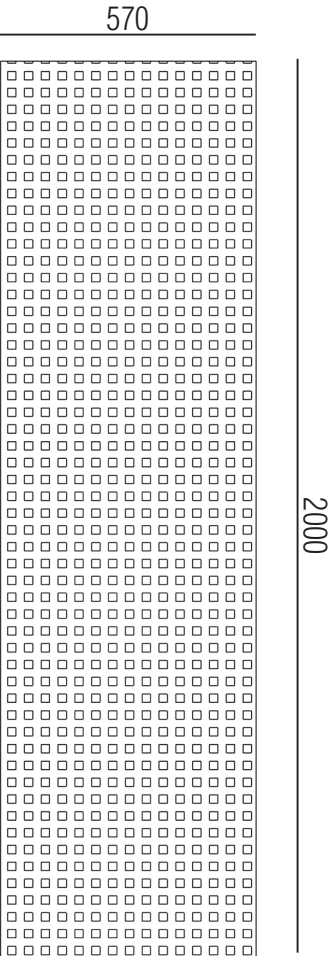
Transparent



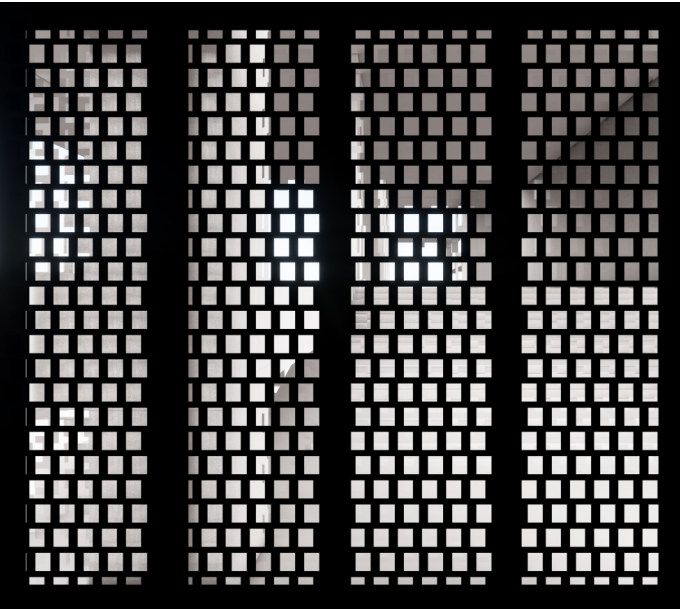
Public | Unique | Eye Catching Moments



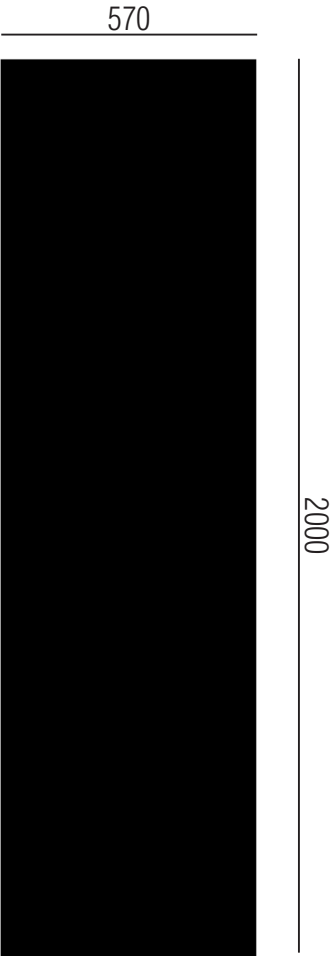
Semi-Transparent



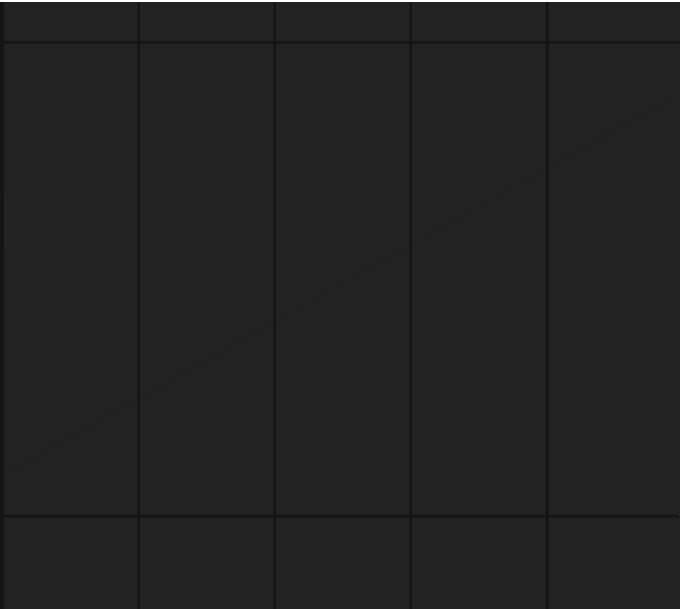
Semi-Public | Educational | Cultural



Opaque



Non-Public | Technical | Event Space | Art Gallery

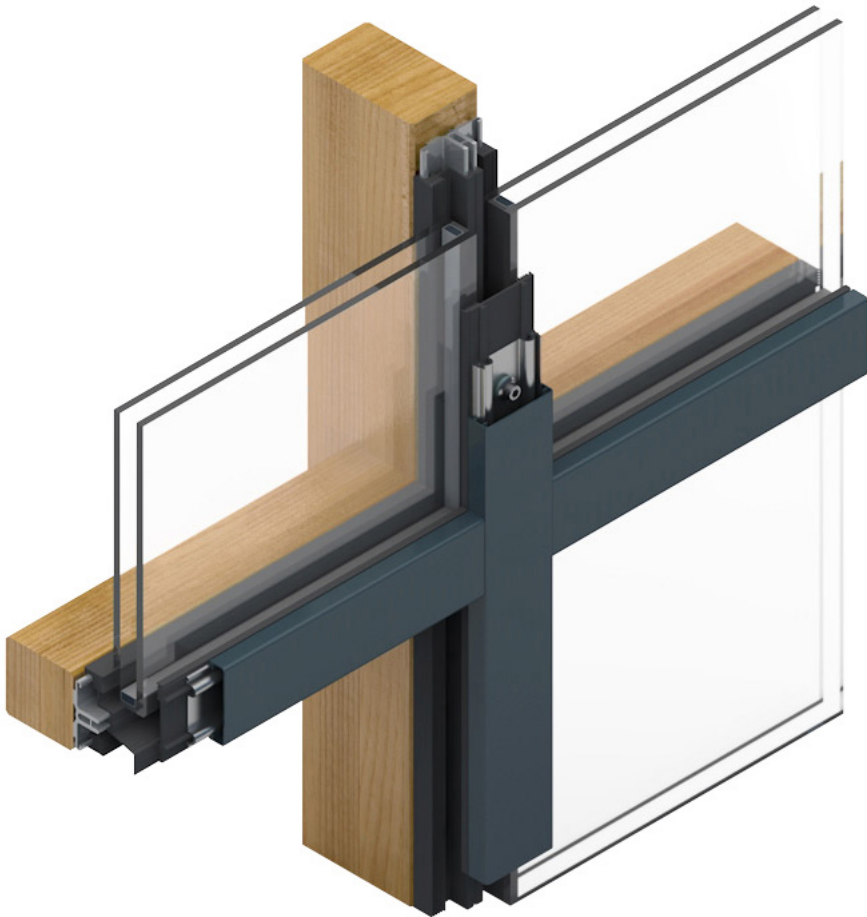




Public | Unique | Eye Catching Moments

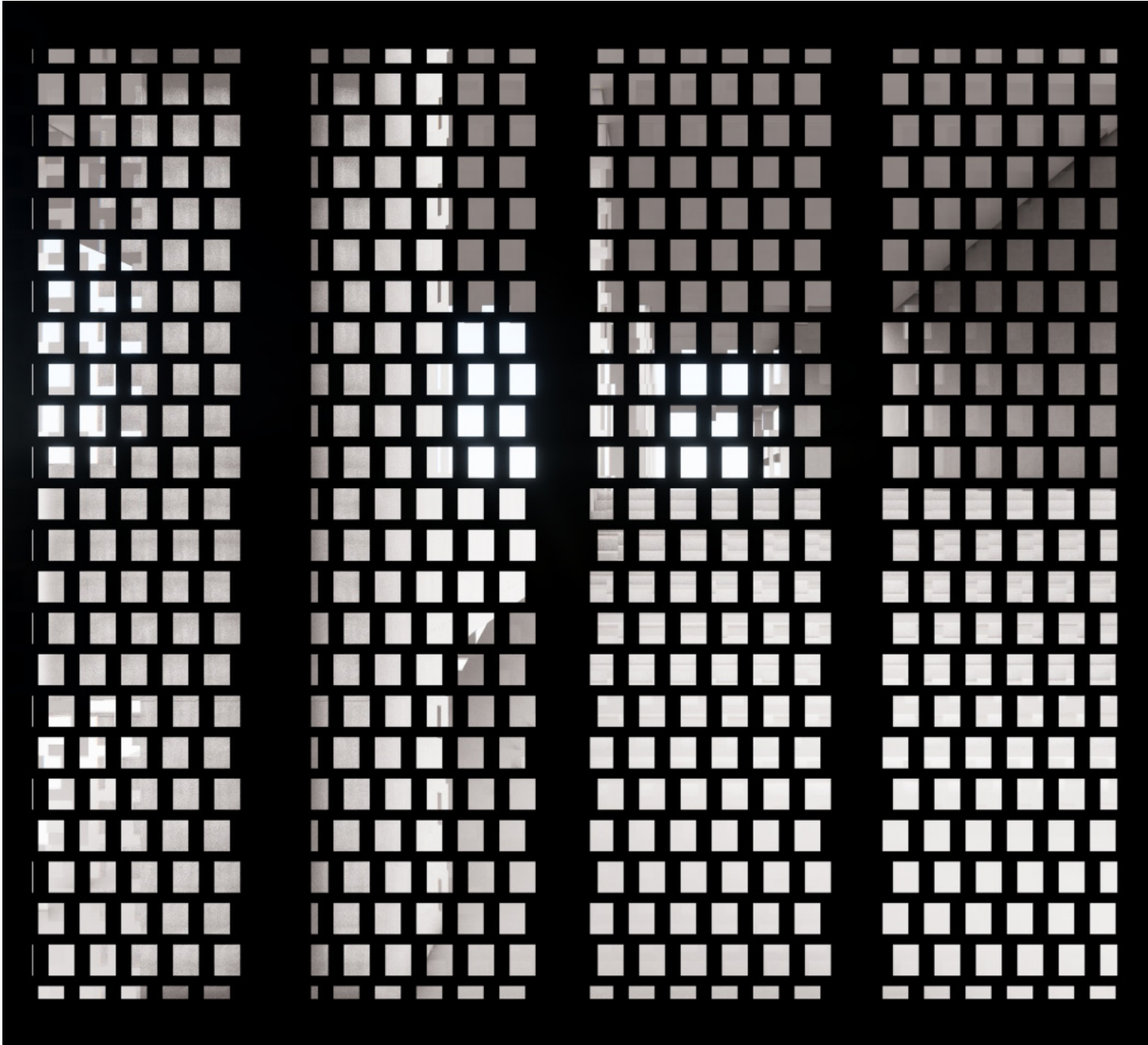
Connection with Urban Context
Quality of Space
Showcase Publicness

34.2 % of Facade = 6310 m² Transparent Facade



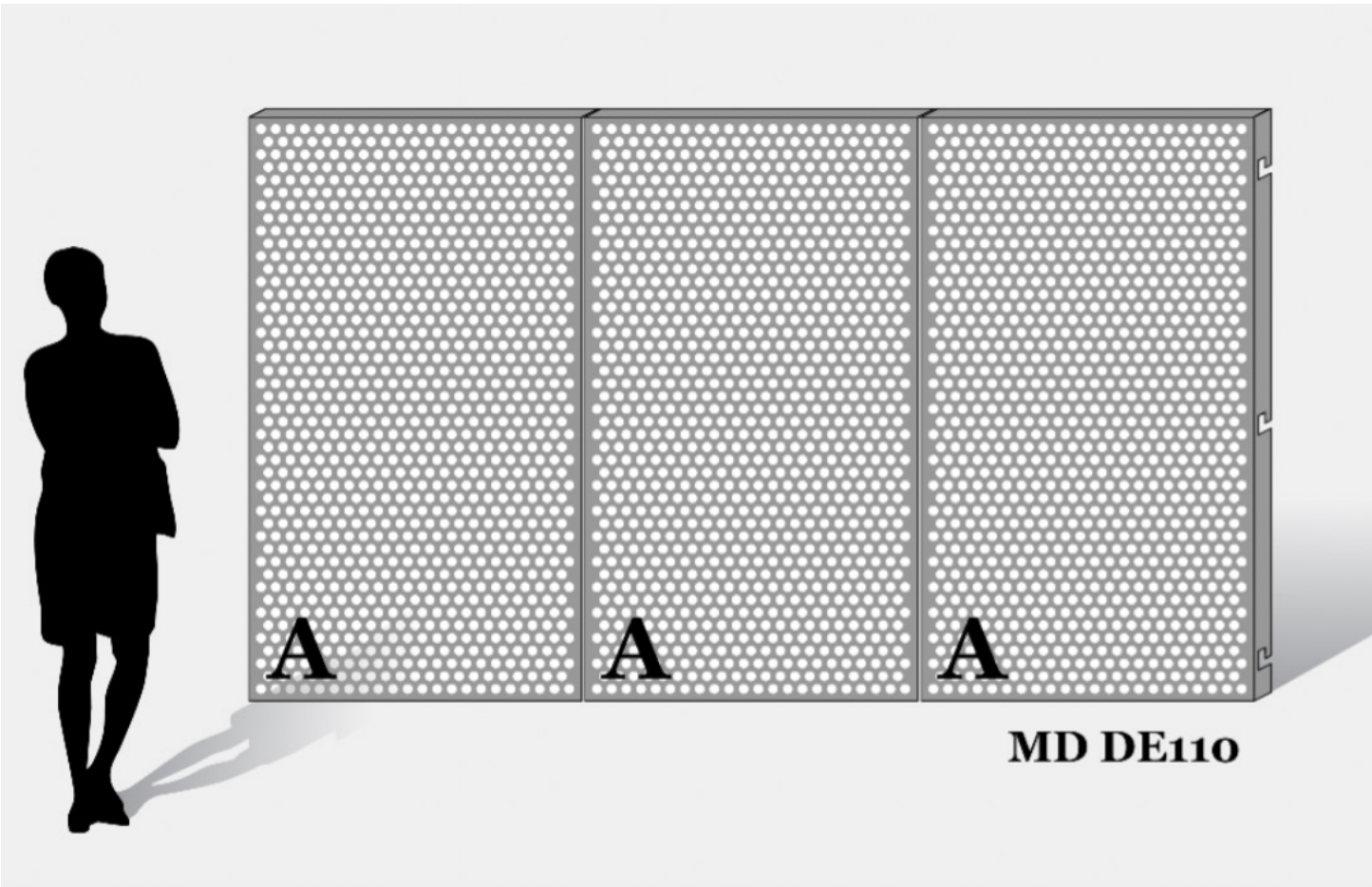
Stabalux AK-H

Timber Construction
Aluminium Exterior
HR Triple Glazing



Semi-Public | Educational | Cultural

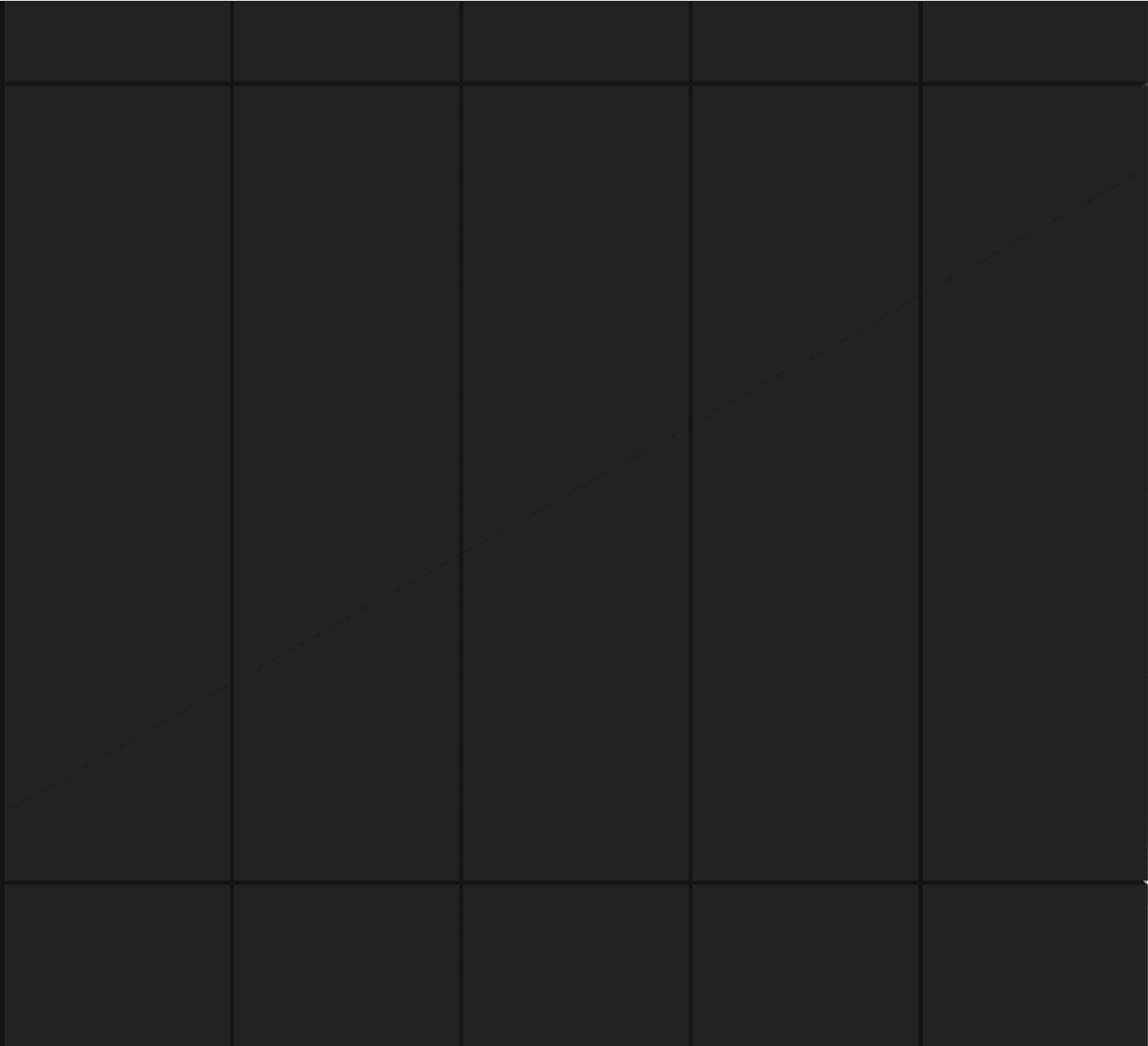
Spatial Quality through Daylight
Solar Protection



MetaDecor DE110

Aluminium Perforated Panels
40% Opaque | 60% Transparent

34.5 % of Facade = 6365 m² Semi-Transparent Facade



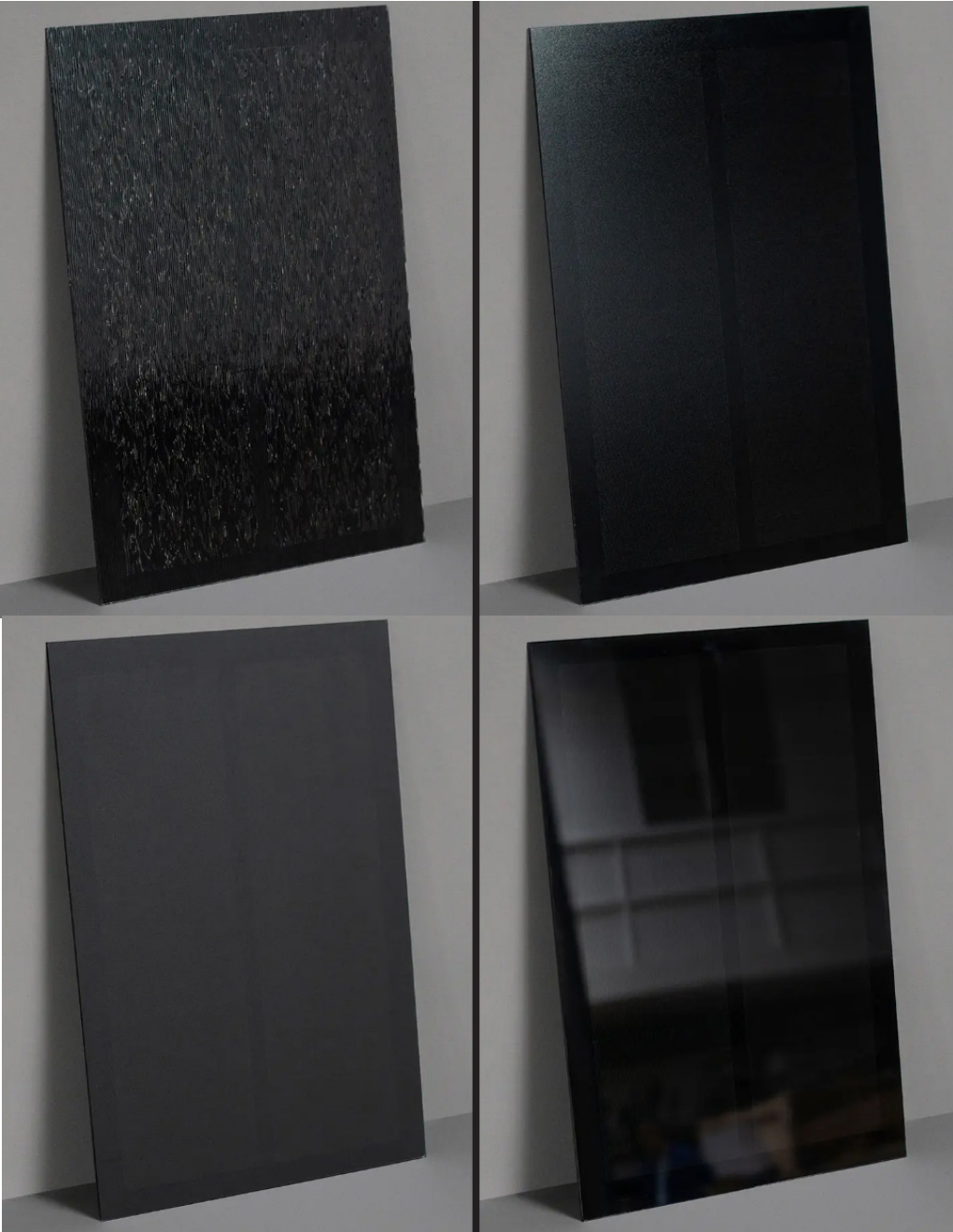
Non-Public | Technical | Event Space | Art Gallery

Quality of Interior Space through Climatic Design
No ‘*Full Glazed Spaces*’

31.3 % of Facade = 5774 m² Opaque Facade

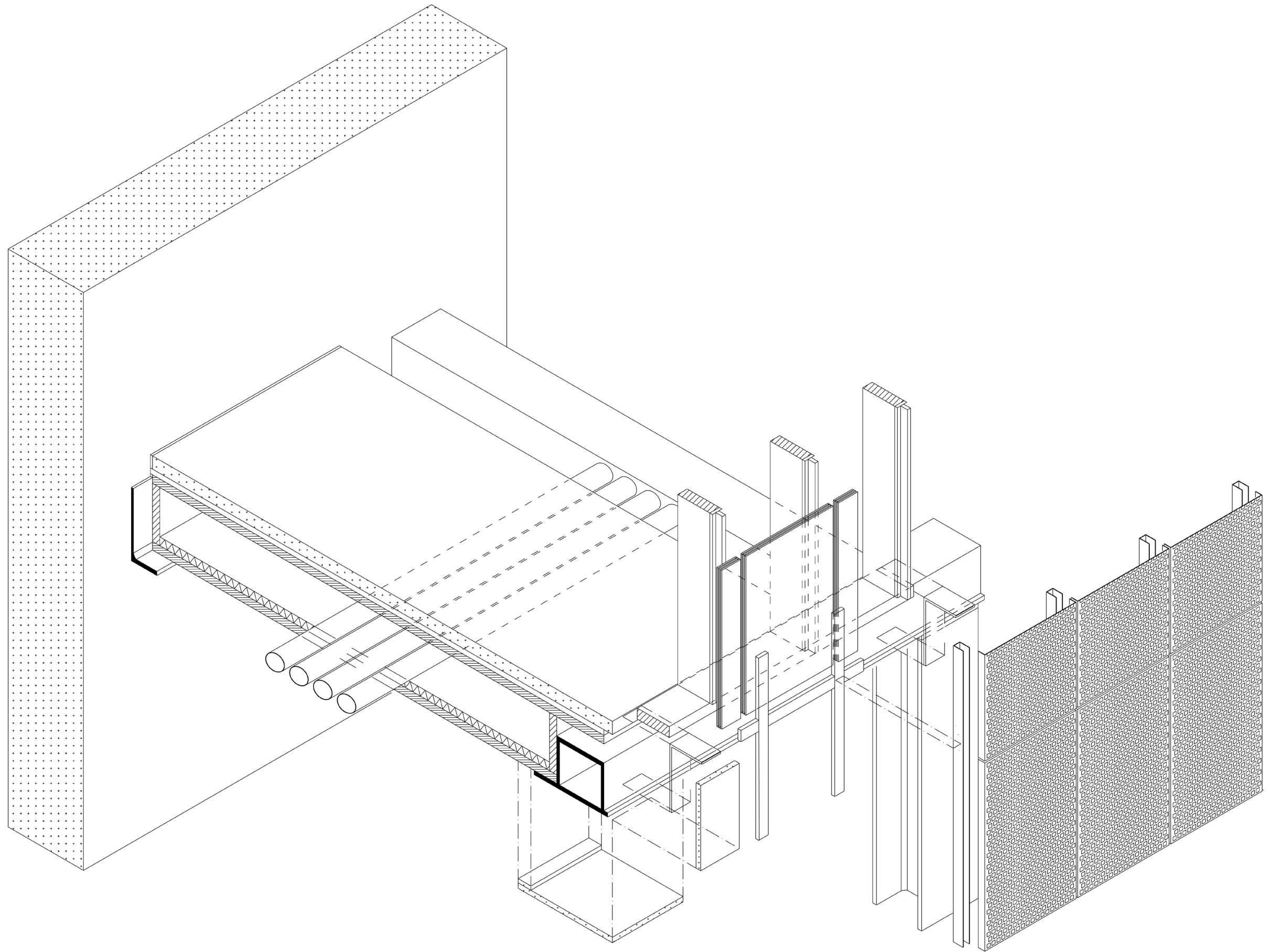
Preventing 4000 kg/m² CO₂ over Lifespan = 4 Trees CO₂ Absorbtion

4000 x 5774 = **23099 Trees** CO₂ Absorbtion

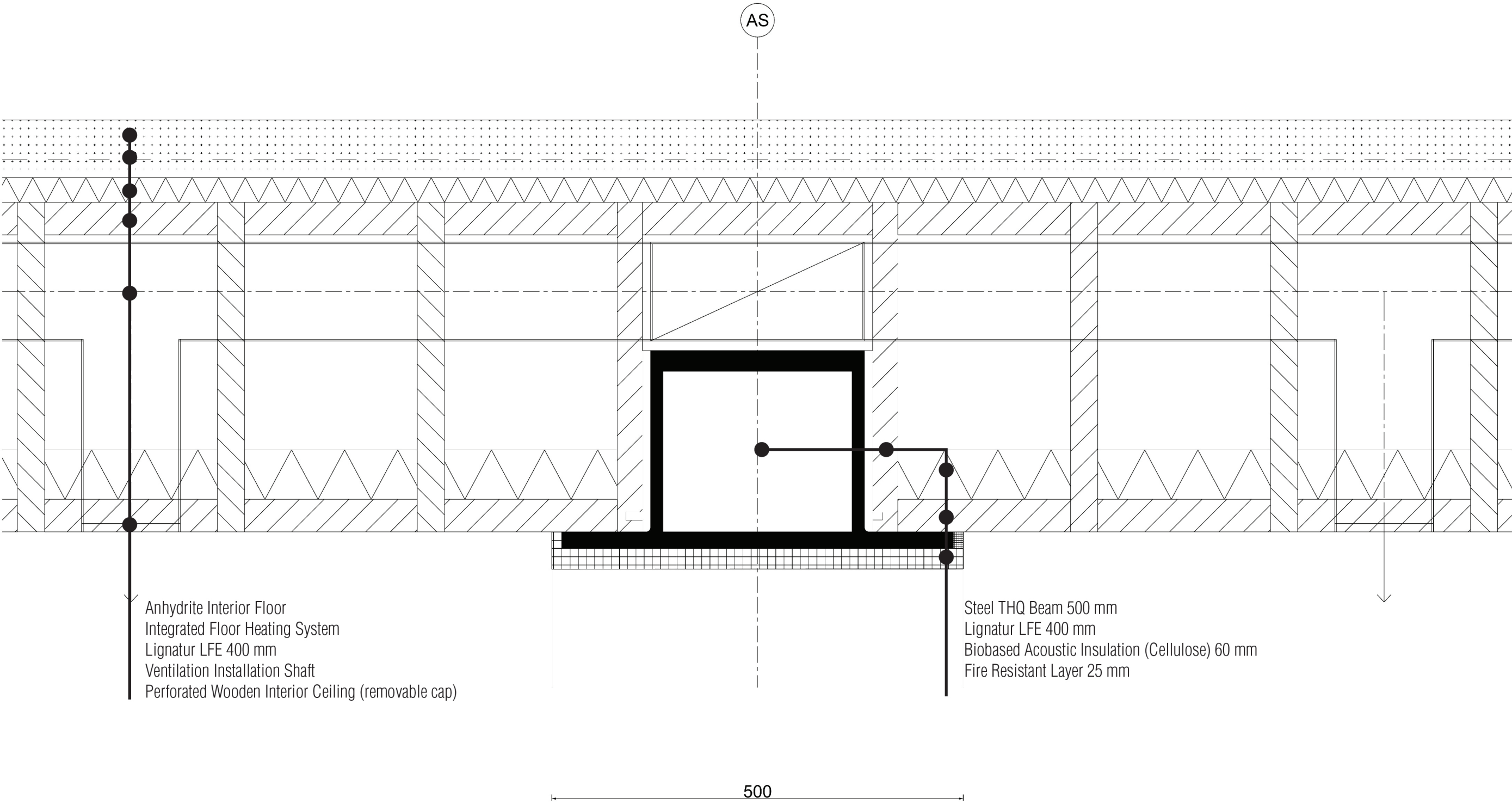


Solarix Black Collection

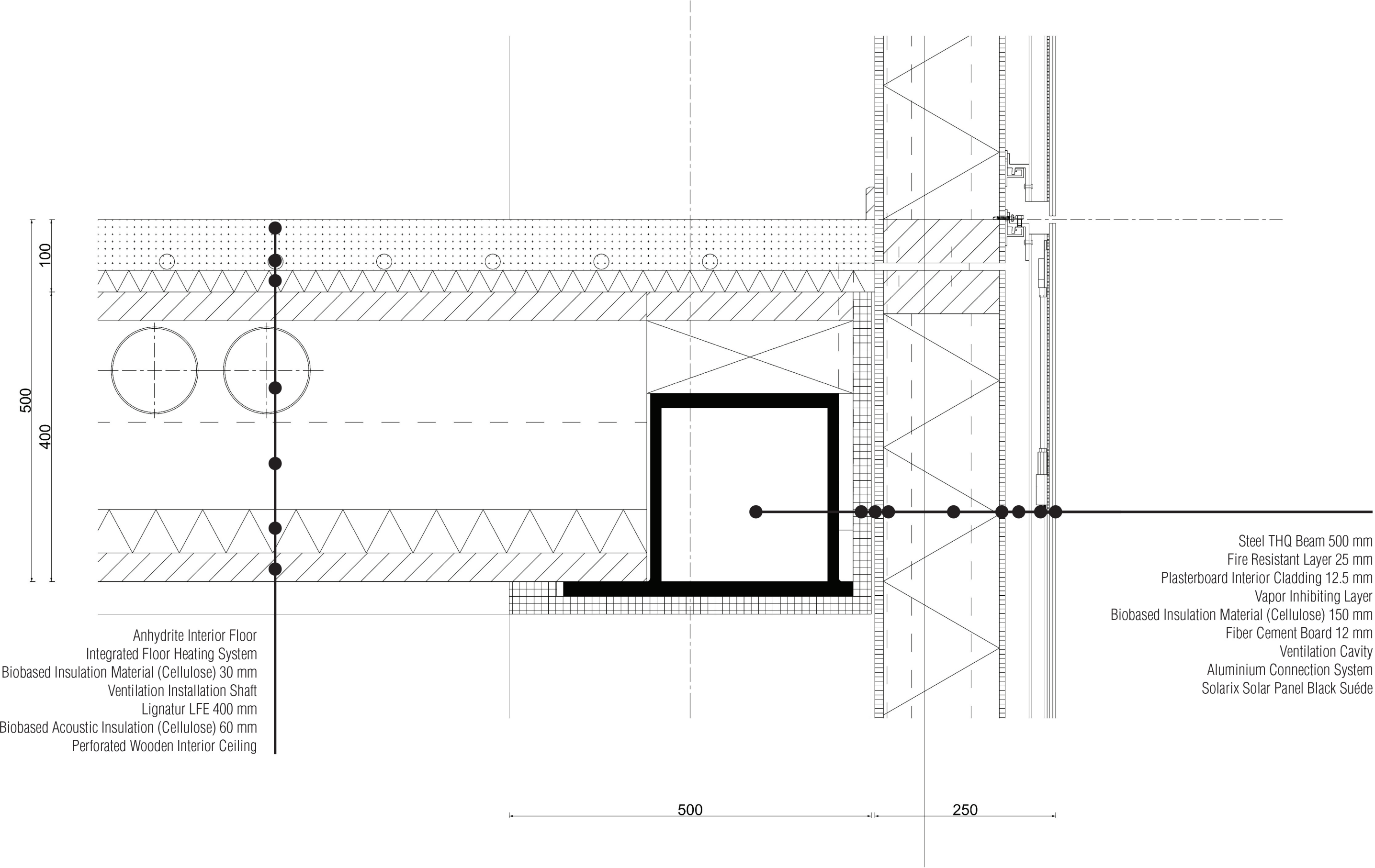
Solar Panels for Renewable Energy
Black for Highest Efficiency



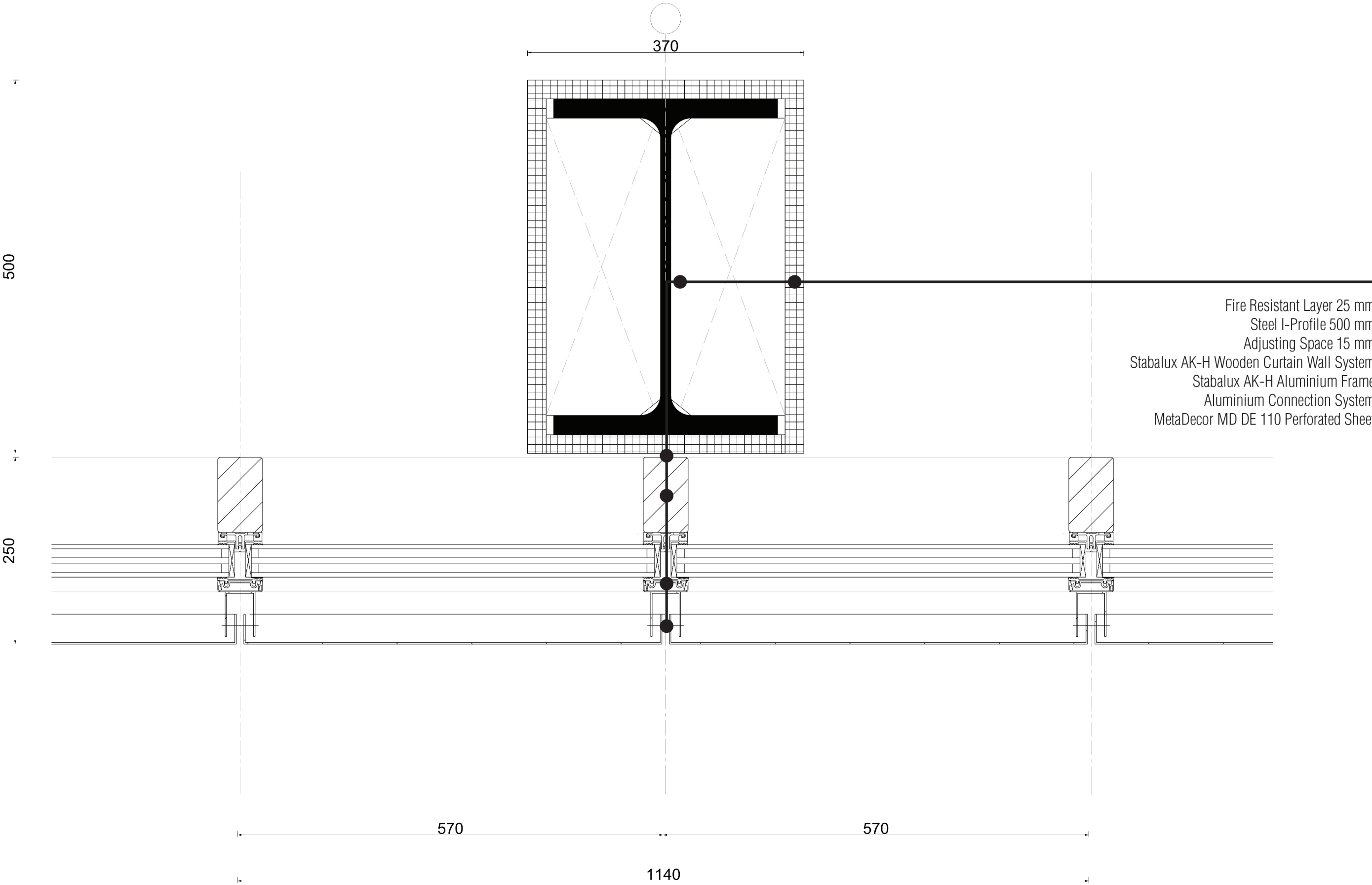
Detail 1:5 | Lignatur Floor



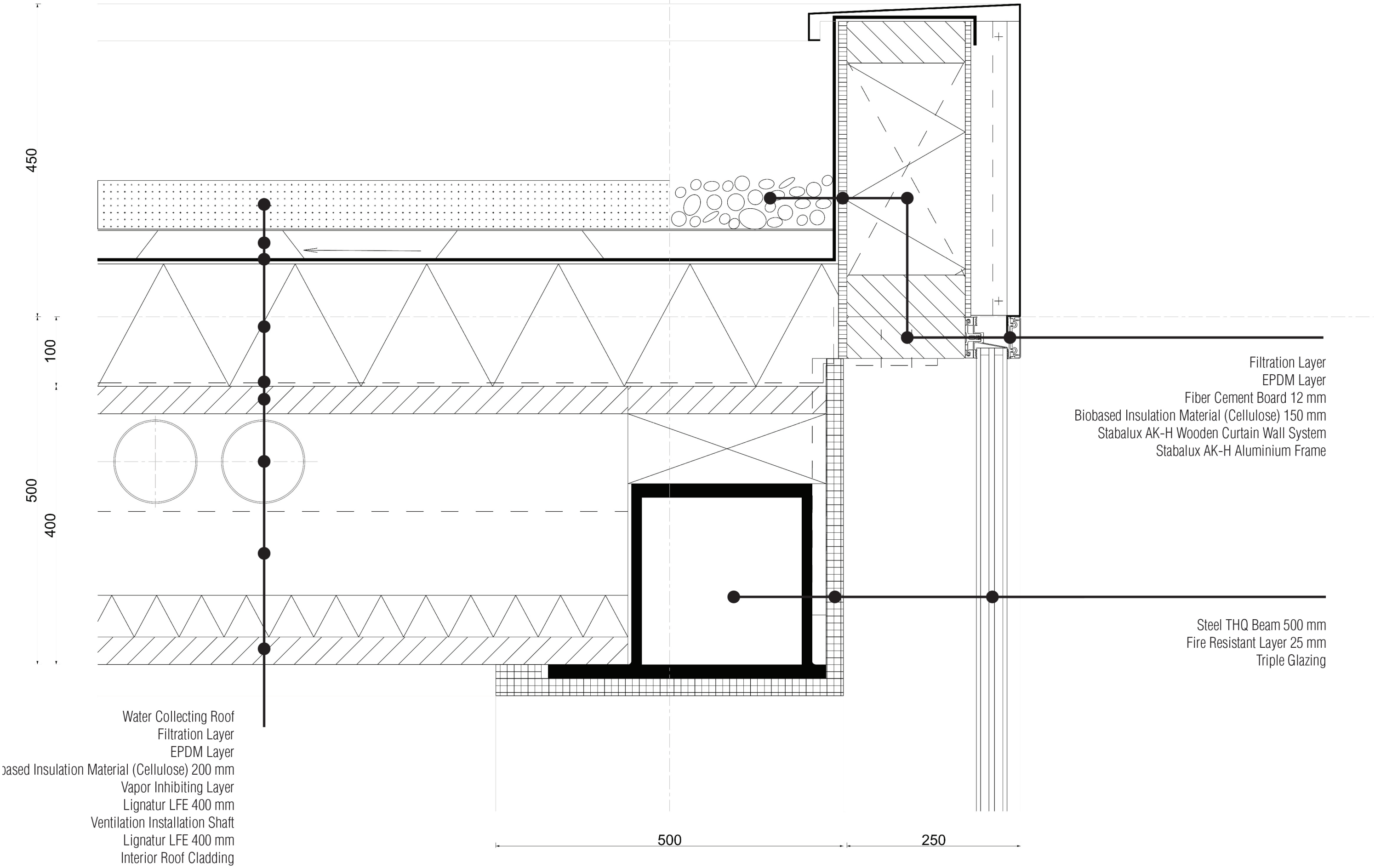
Detail 1:5 | Opaque Facade



Detail 1:5 | Semi-Transparent Facade



Detail 1:5 | Roof



Thank you!
Questions?

