

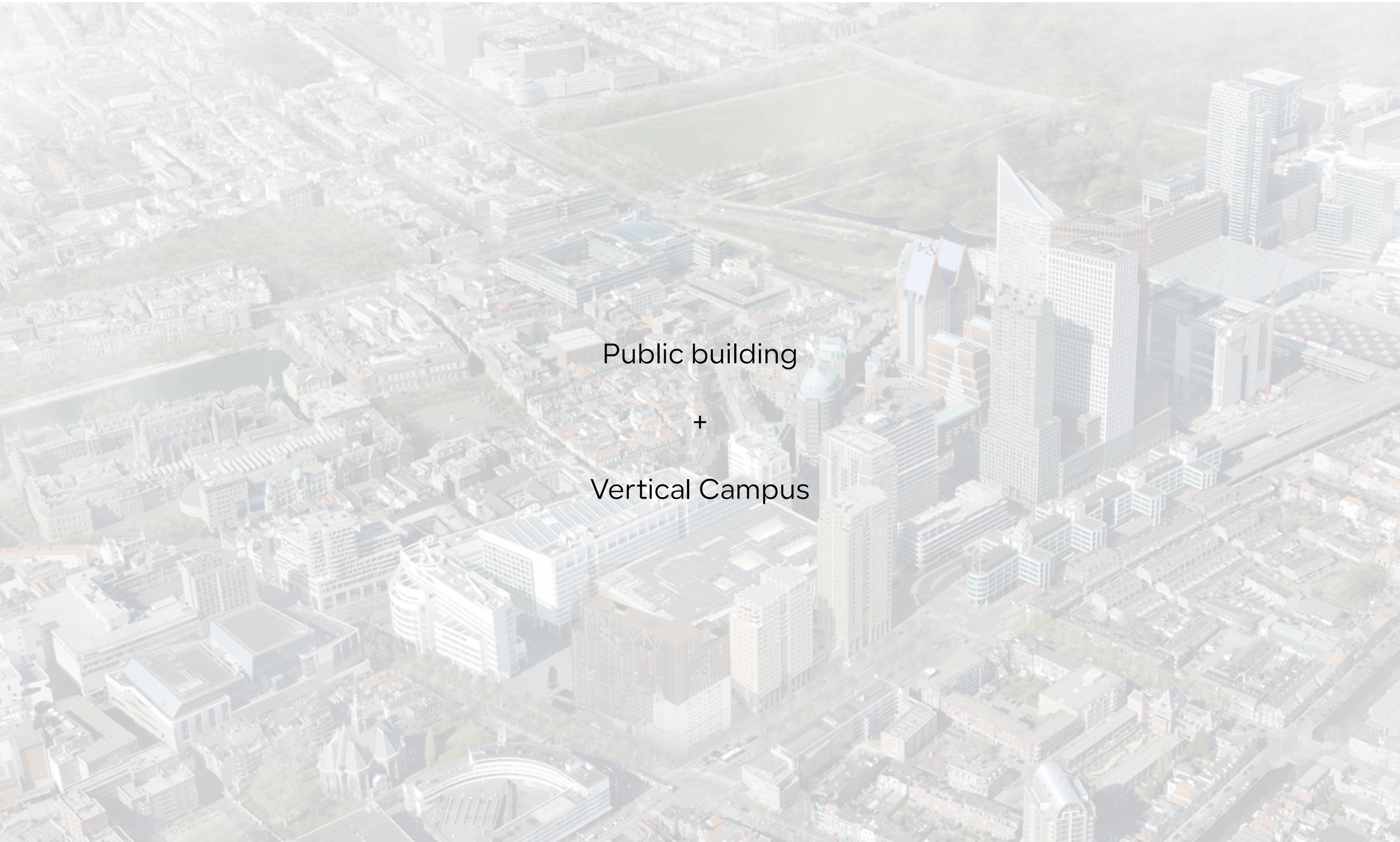
# Shaping Public Consciousness

City Miniature of a fully Public Vertical Campus

Yelim Kim | 5707714

05. 07. 2024





Public building

+

Vertical Campus



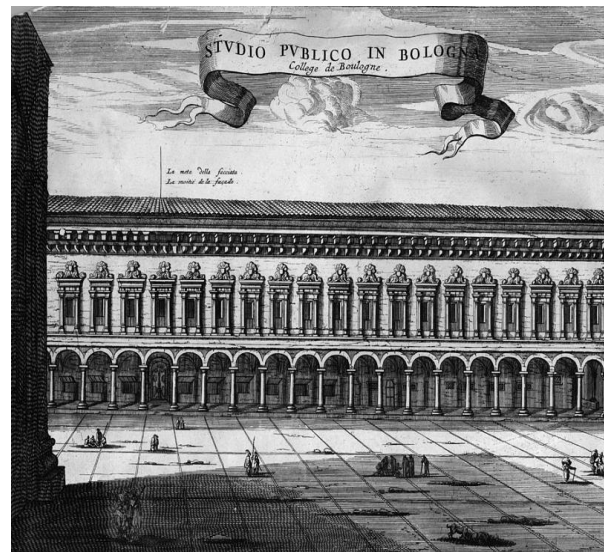
# RESEARCH BY DESIGN

## **1 | Research**

2 | Site

3 | Concept and Design





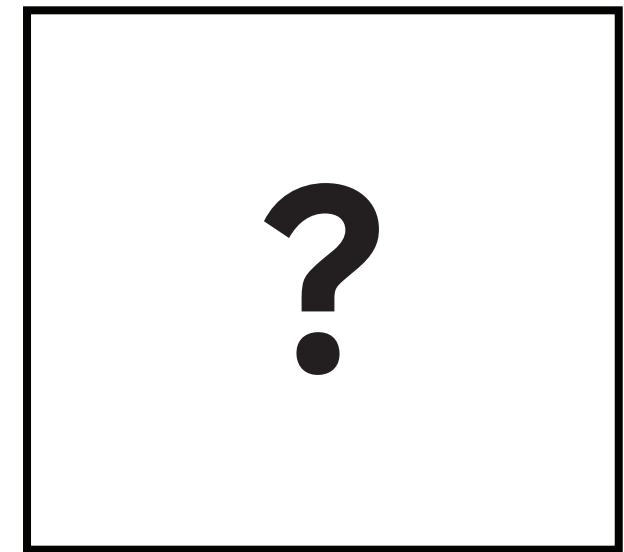
1st gen.campus



2nd gen.campus



3rd gen.campus

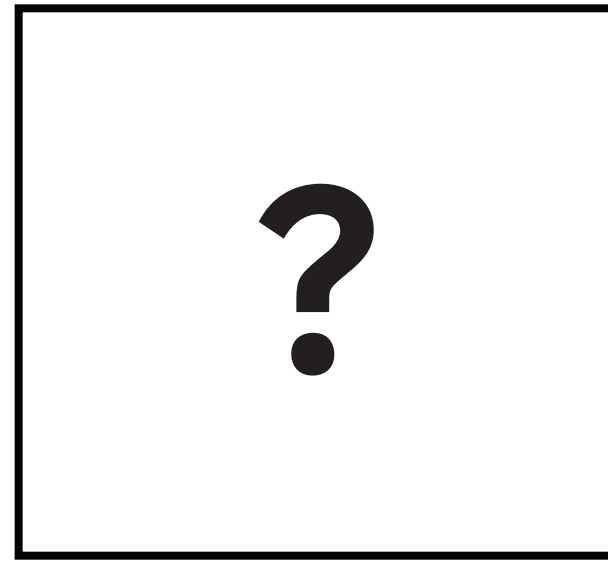


4th gen.campus

## Generations of Campus

Vision of the vertical campus





4th gen.campus



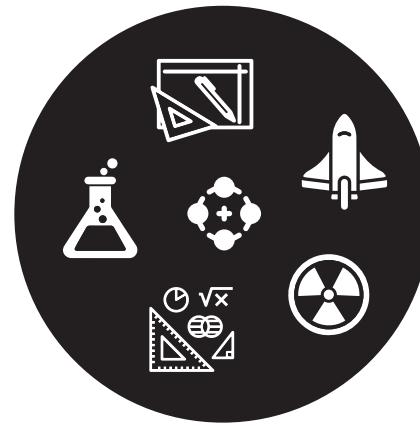
**Vertical campus**

4th gen.campus

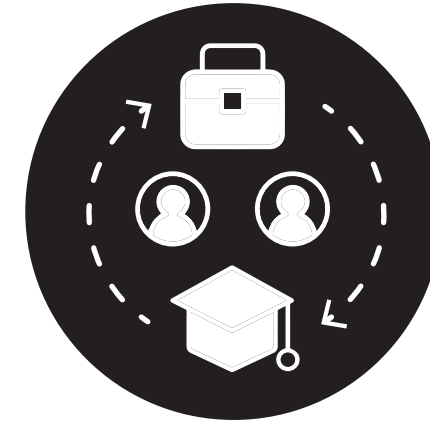




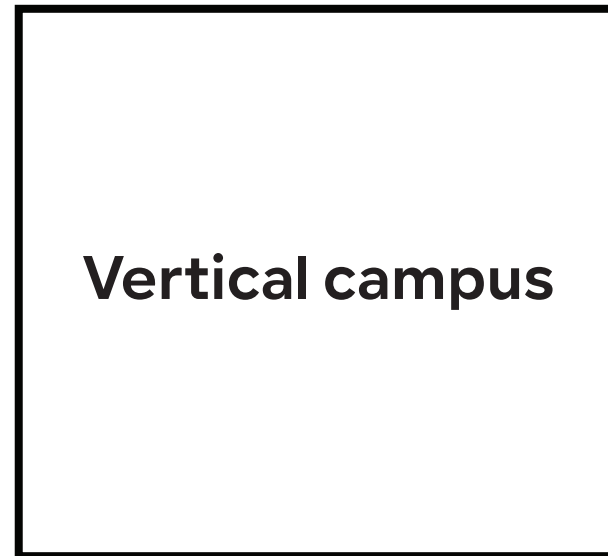
spatial integration with the city



cross disiplinary



integration of officies



## Vertical campus



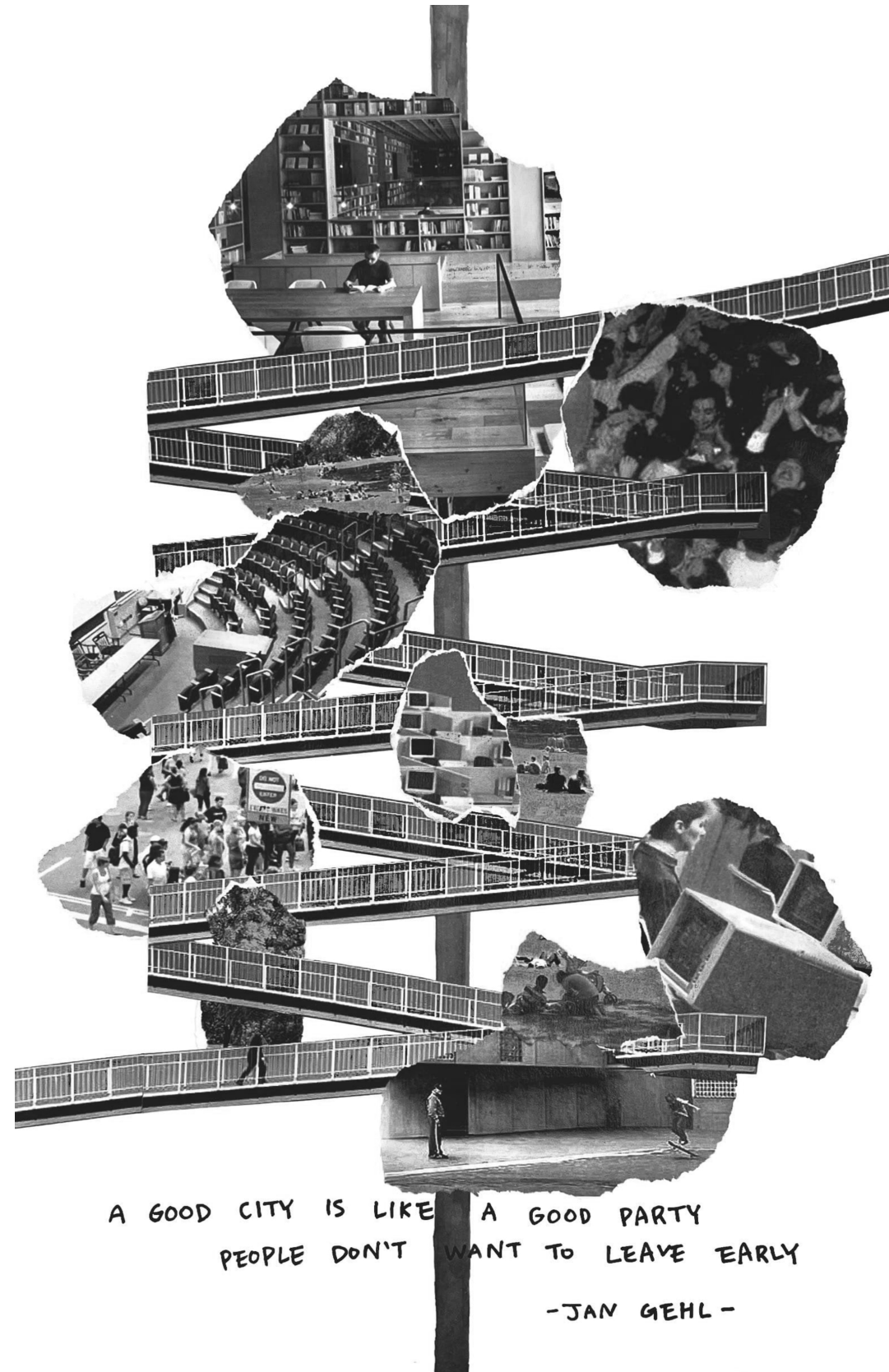
Static vs Flexible



Shared spaces



Global vs Local



## City Miniature

Manifesto of Vertical City



# Phenomenology

## Phenomenology

"Back to the things themselves"

"The essence of consciousness"

"The essence of perception"

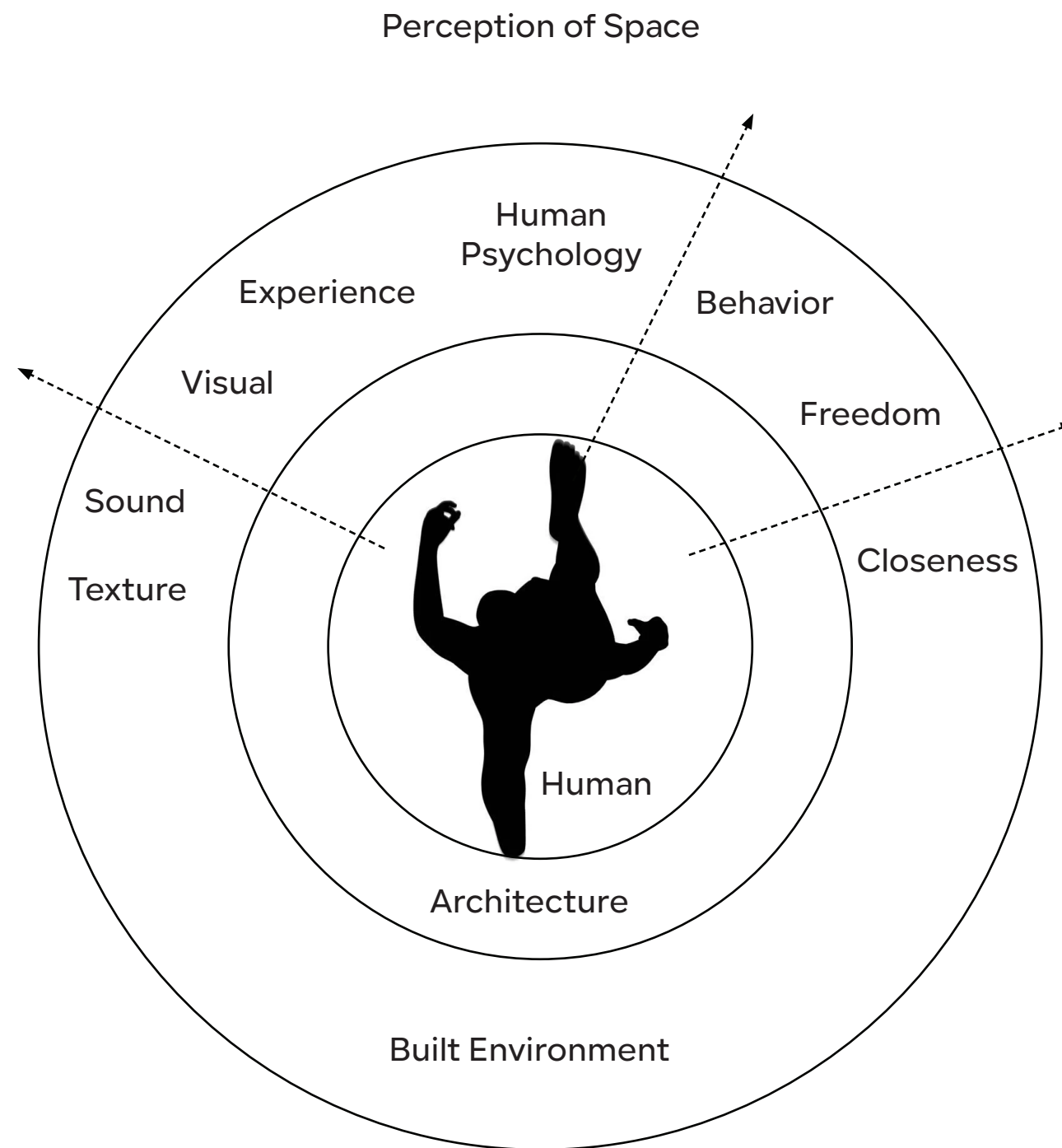
"Multi-sensory experience"

- Edmund Husserl -

- Maurice Merleau-Ponty -

- Juhani Pallasmaa -





## Shape



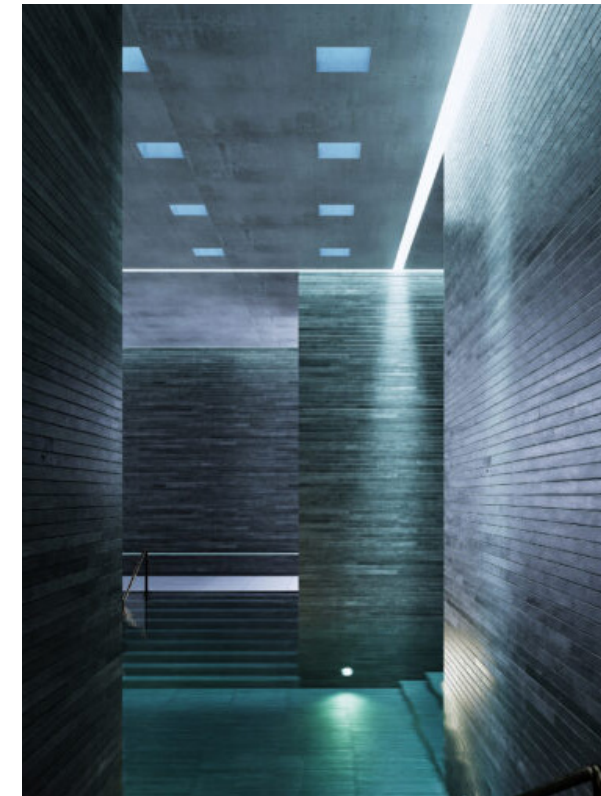
Bruder Klaus field chapel,  
Peter Zumthor

## Texture



The Jewish Museum in Berlin,  
Daniel Libeskind

## Light



Therme Baths Vals,  
Peter Zumthor

1 | Research

**2 | Site**

3 | Concept and Design

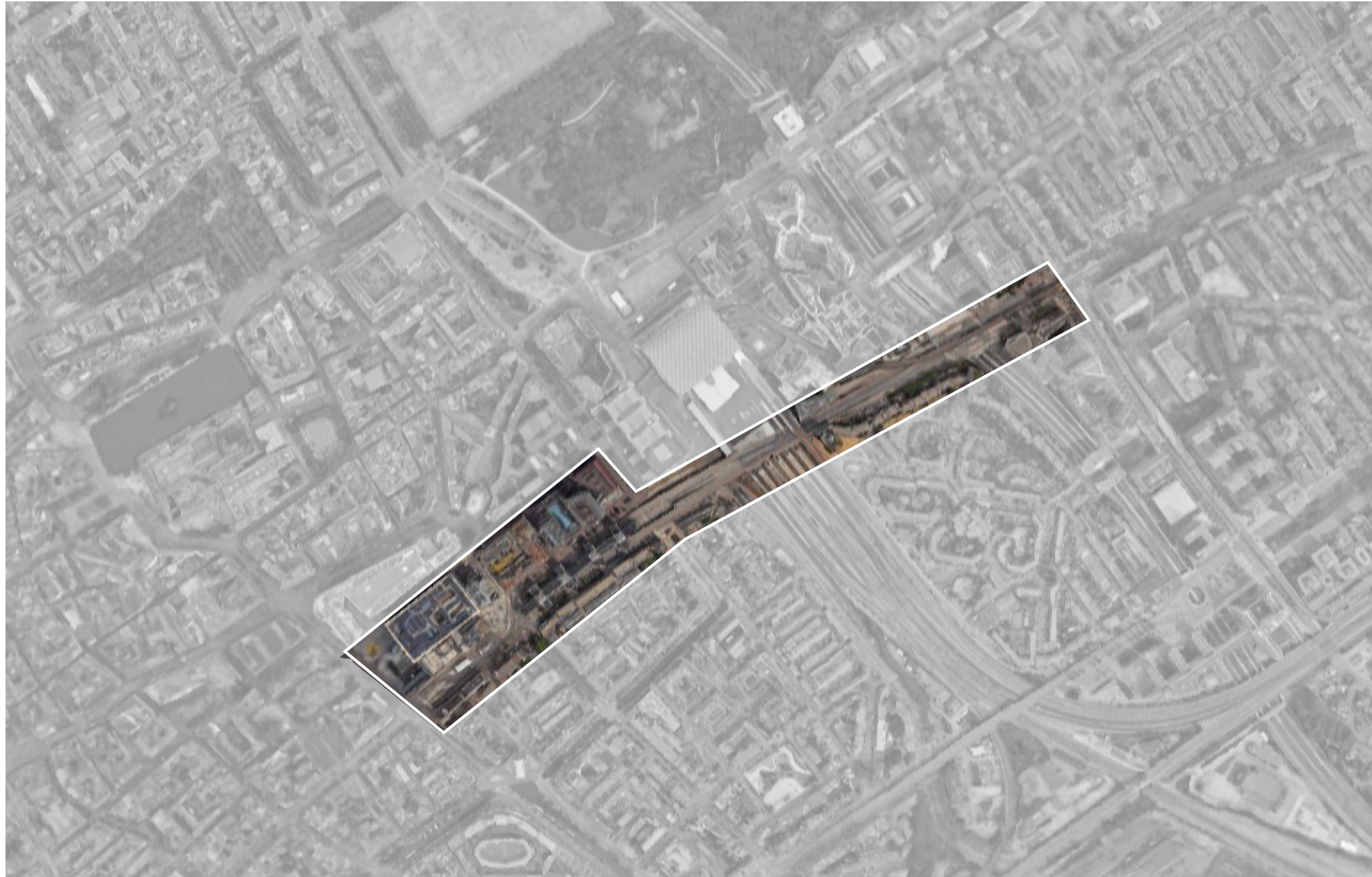




*Studio Project Site*

Den Haag Central Station District

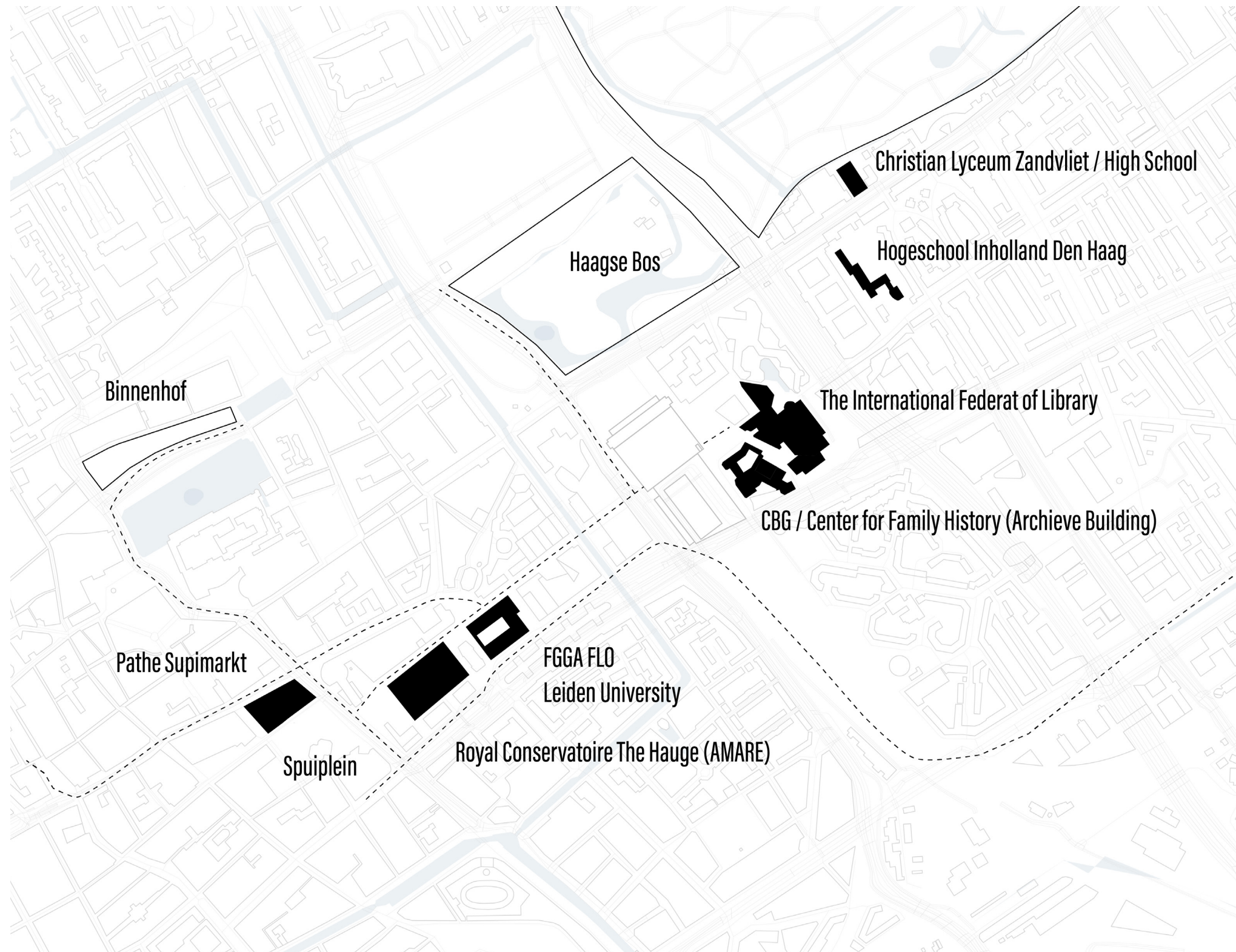




*The fly-over infrastructure area in Den Haag*

Studio Project Site





*Public Spaces and educational buidlings around central station*

Site analysis

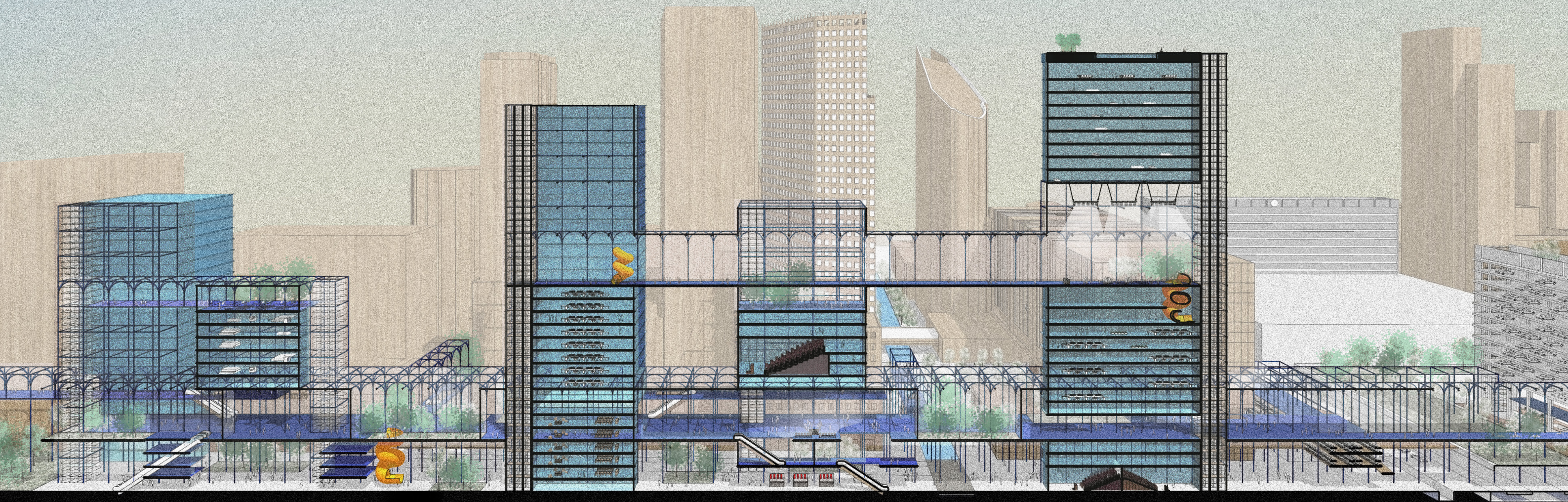
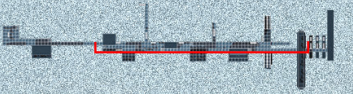




### *Capacity Plan*

The Public Take-off

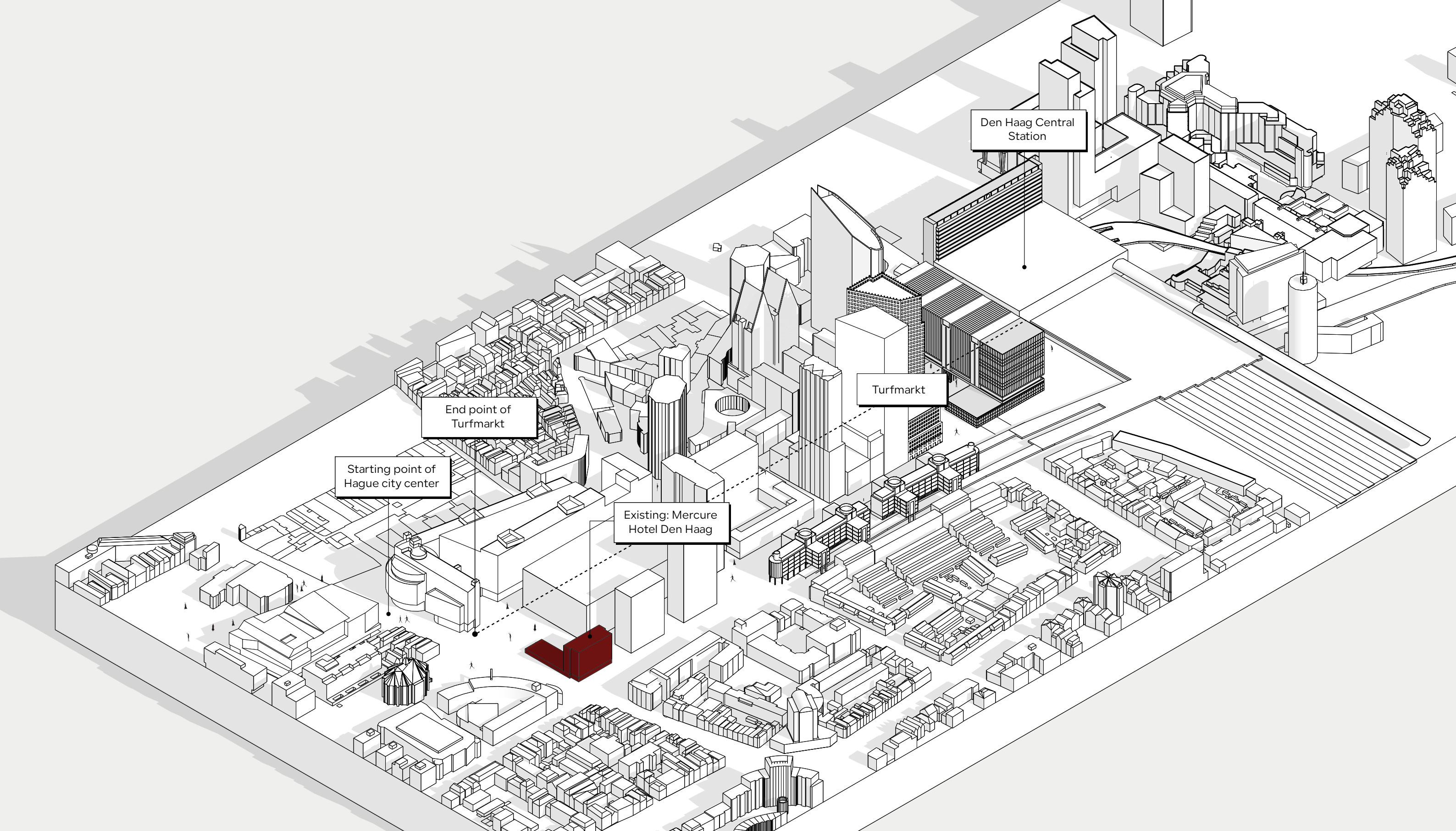




## Capacity Plan

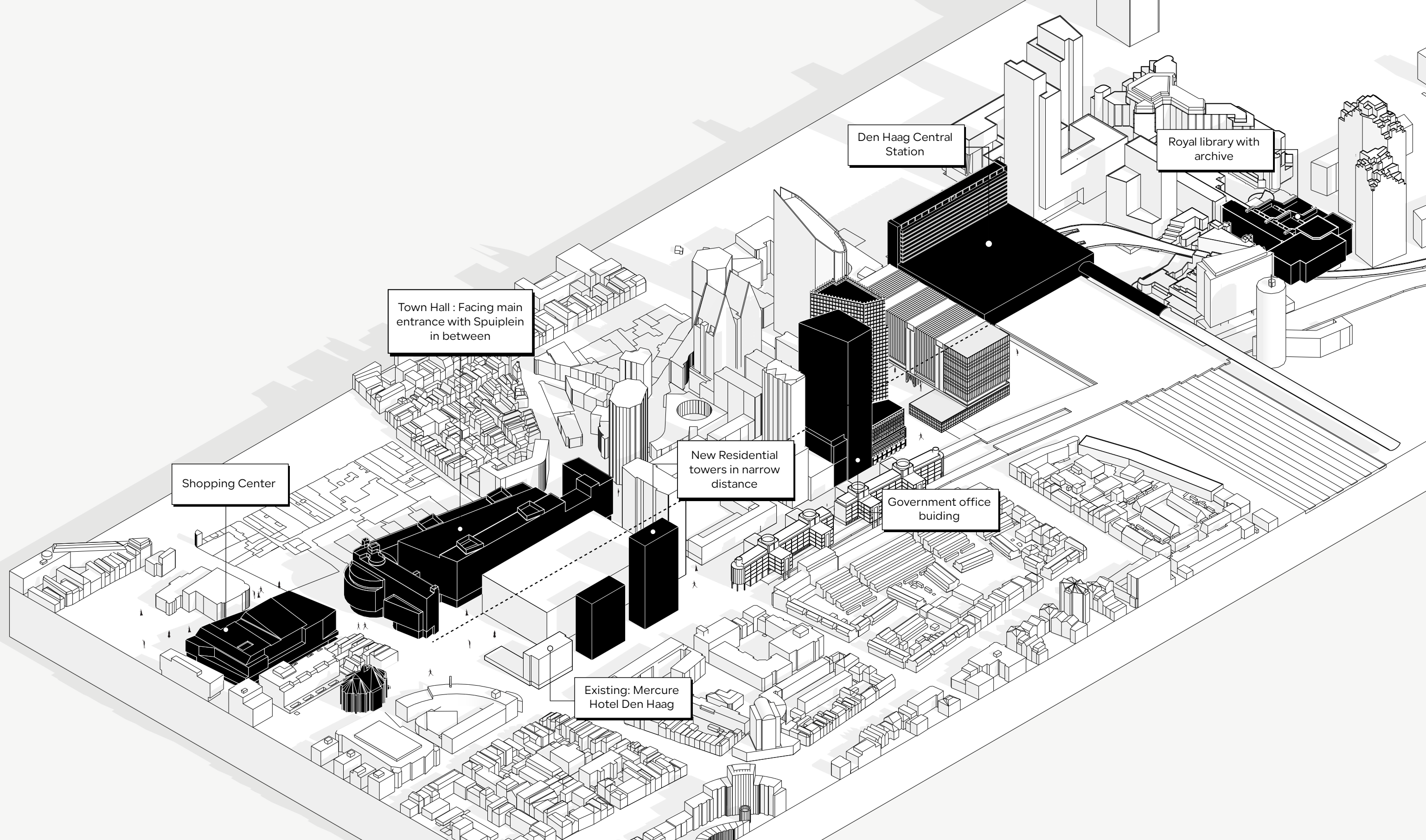
The Public Take-off





*Site existing situation*

Project Site



*Diversity of the City*  
Significant buildings in the site

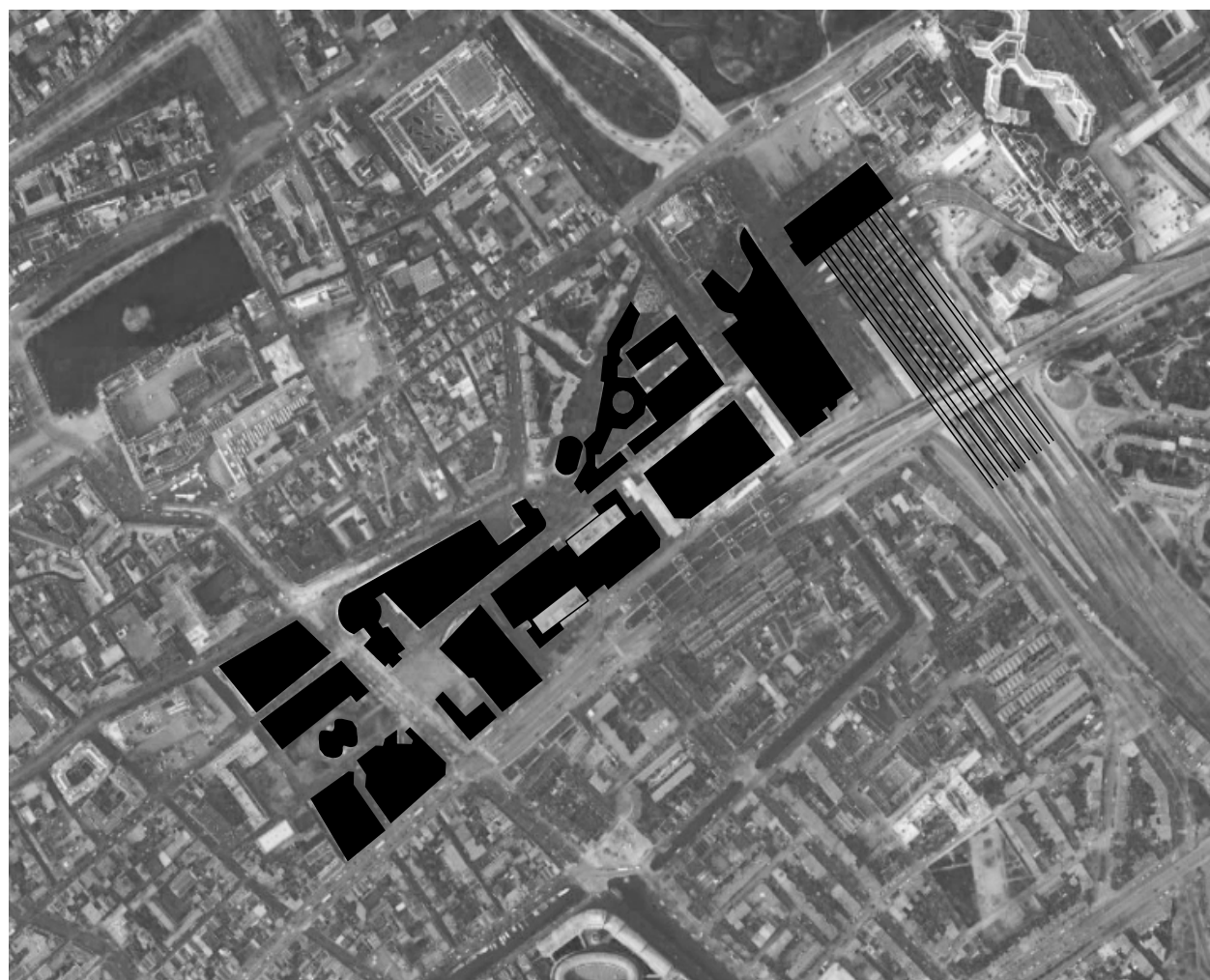


Plugging in and out Towers



Diagram. Own work (2023)





*Demolitions and Constructions between 2010 and 2023*

Turfmarkt, Den Haag



"where do you stay?"

pictures Thomas Bax and Yelim Kim (2023)



Turfmarkt to Spuiplein



Spuiplein

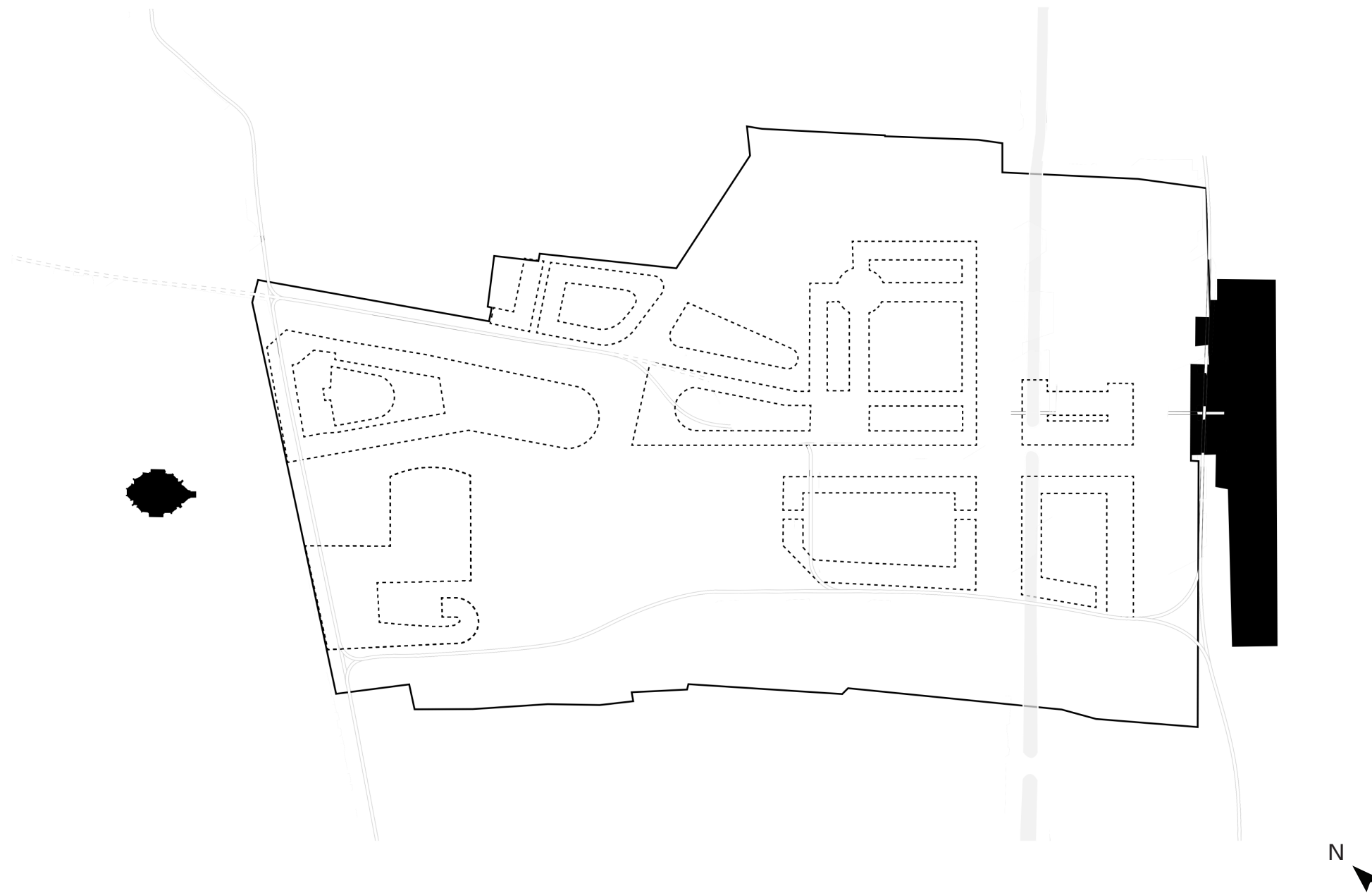




*Mercure Hotel Den Haag, Spuiplein, Den Haag*

Project Site





*Carel Weeber Den Haag city urban planning*

Value behind the Mercure Hotel Den haag



*Lack of surrounding connection and communication*

Existing urban situation

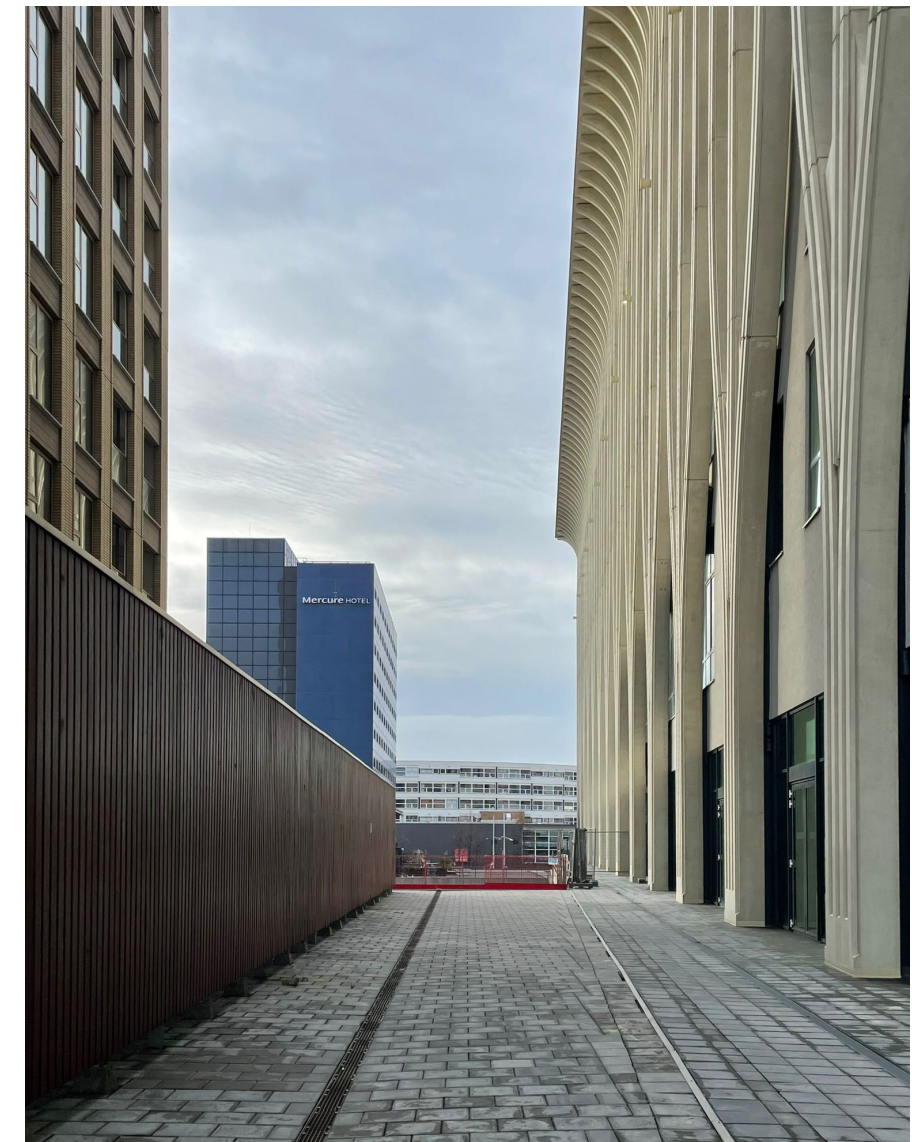




Residential Towers

Plinth public uses

Passage connecting  
Amare and residential  
towers



*Current construction for the passage planning*

Opportunity on the Existing Site

academic users' behavior

hybrid programs

|

inclusivity

phenomenology architecture

|

How can a **fully public vertical campus** influence the **public spatial configuration**  
in the **city center** of the Hague?

|

interaction

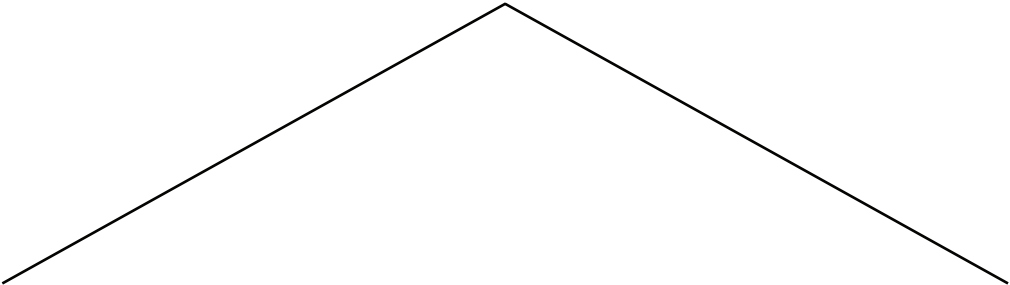


1 | Research

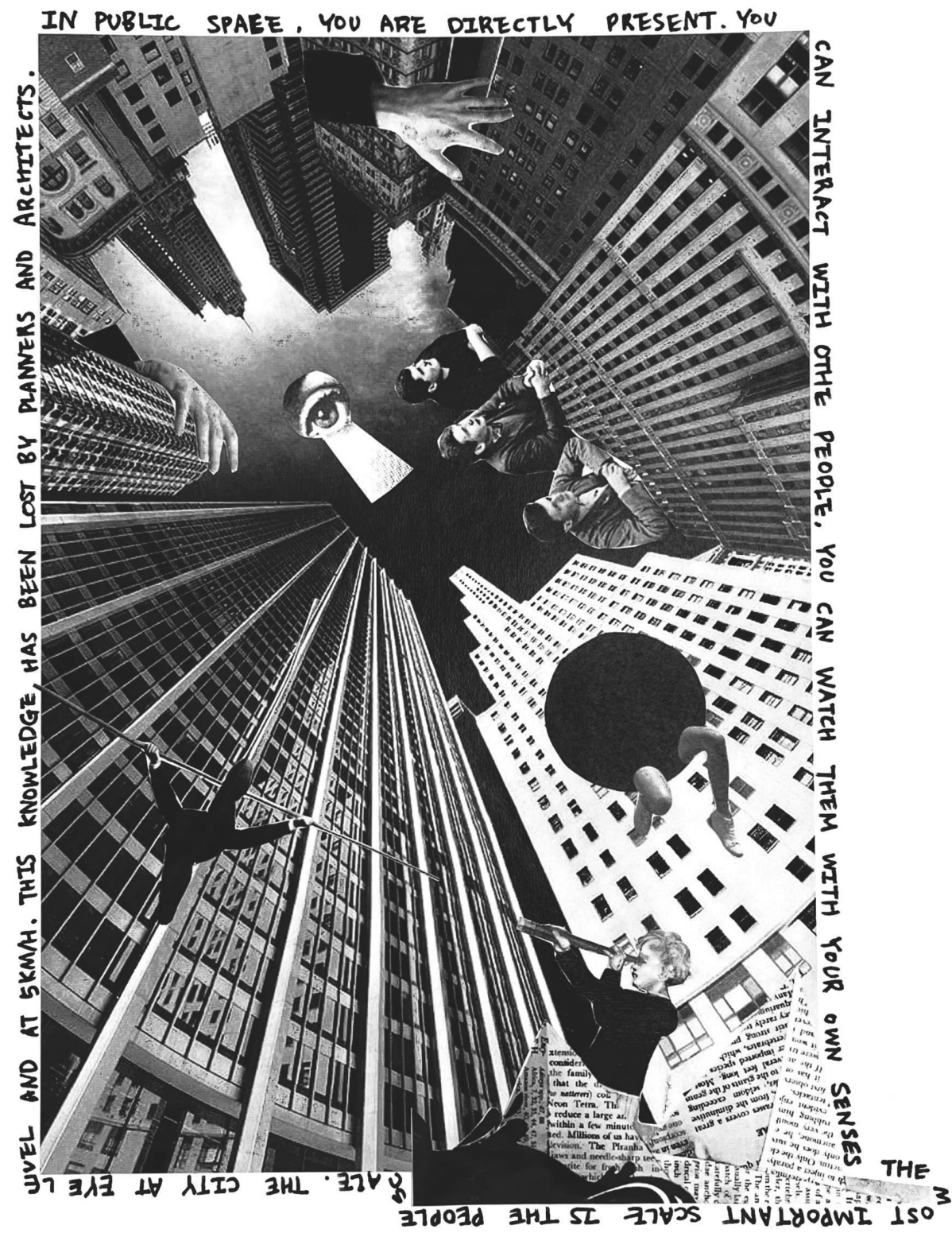
2 | Site

**3 | Concept and Design**

Phenomenology



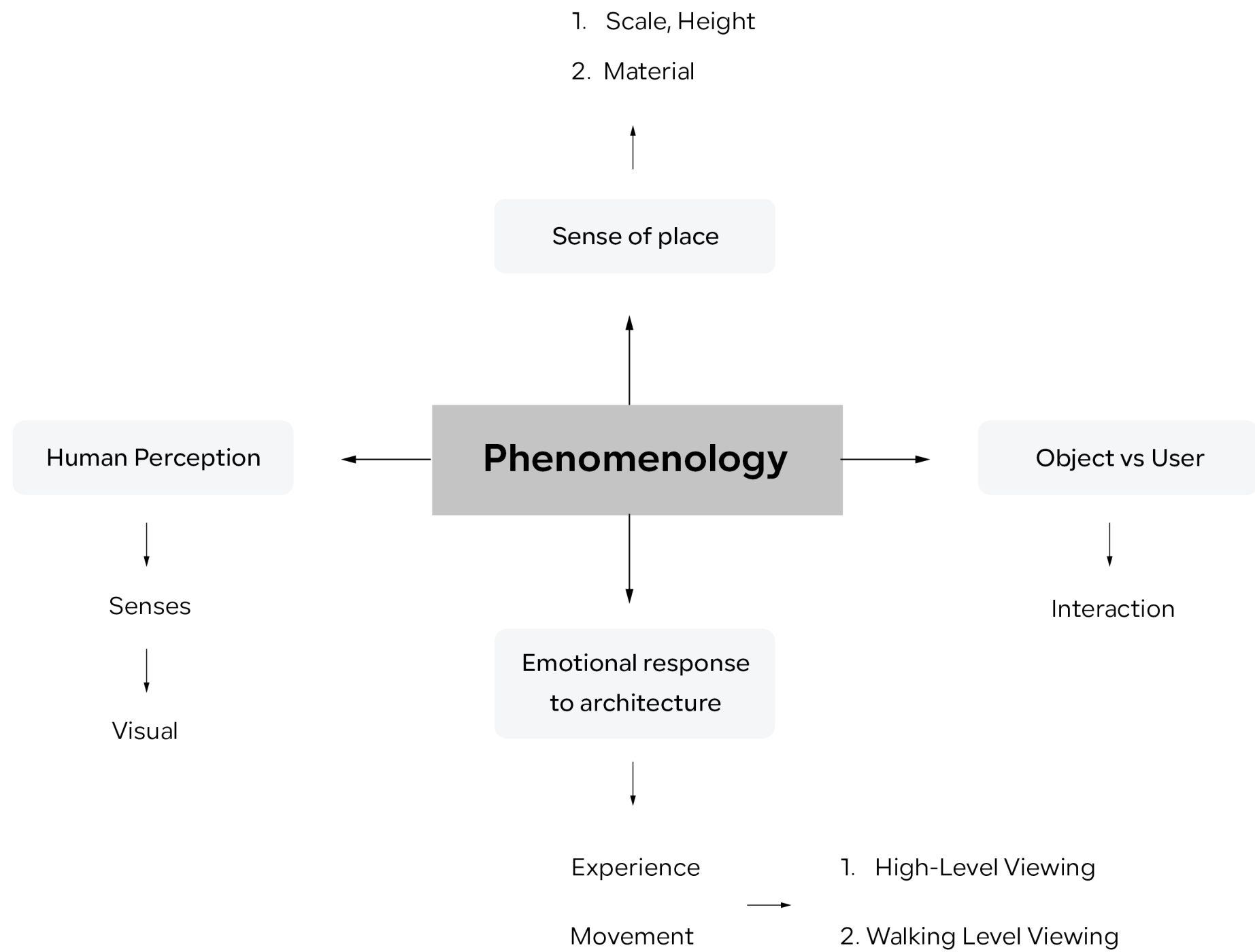
Consciousness + Vertical Campus



## Manifesto

Human consciousness and Towers



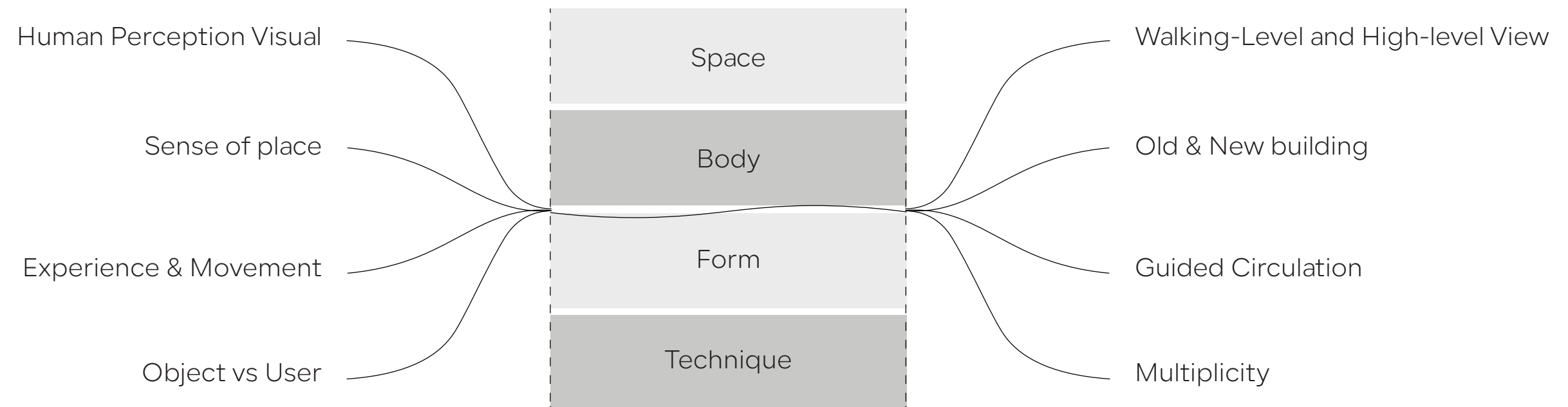


*Guiding principles of Phenomenology*

Theoretical Framework

## Phenomenology

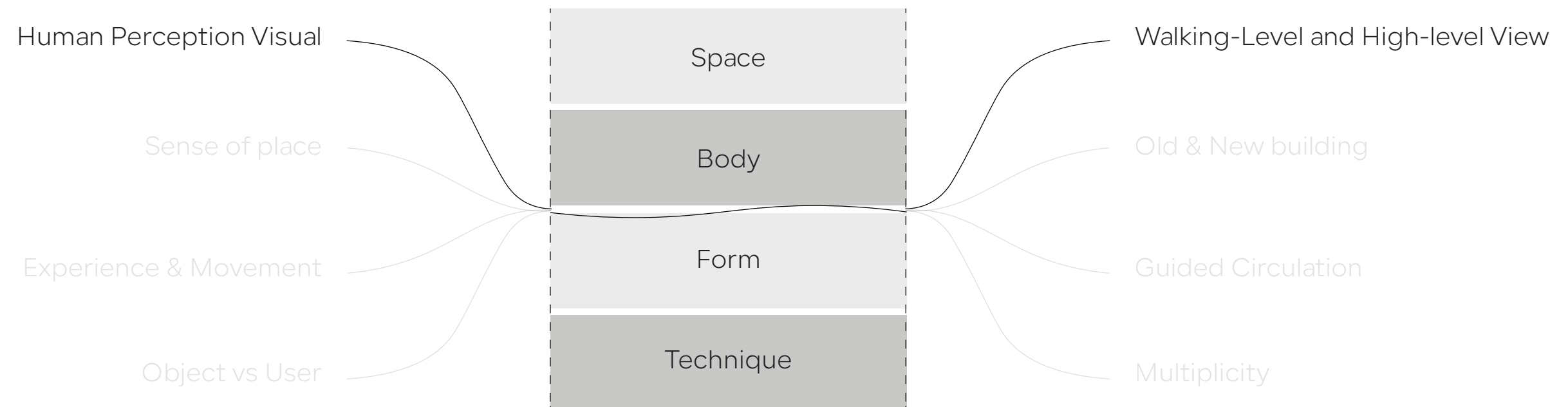
## Vertical Campus

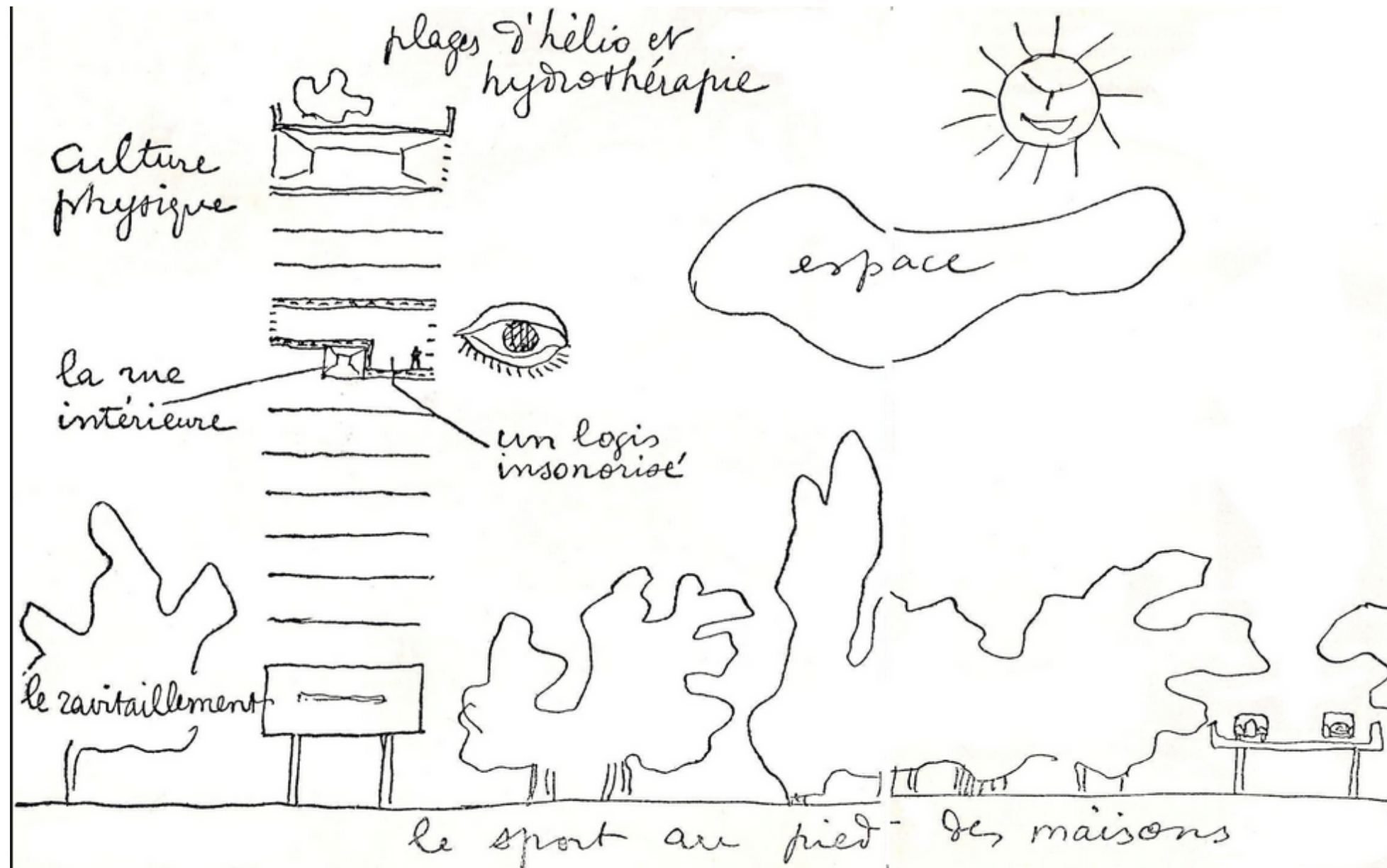




## Phenomenology

## Vertical Campus

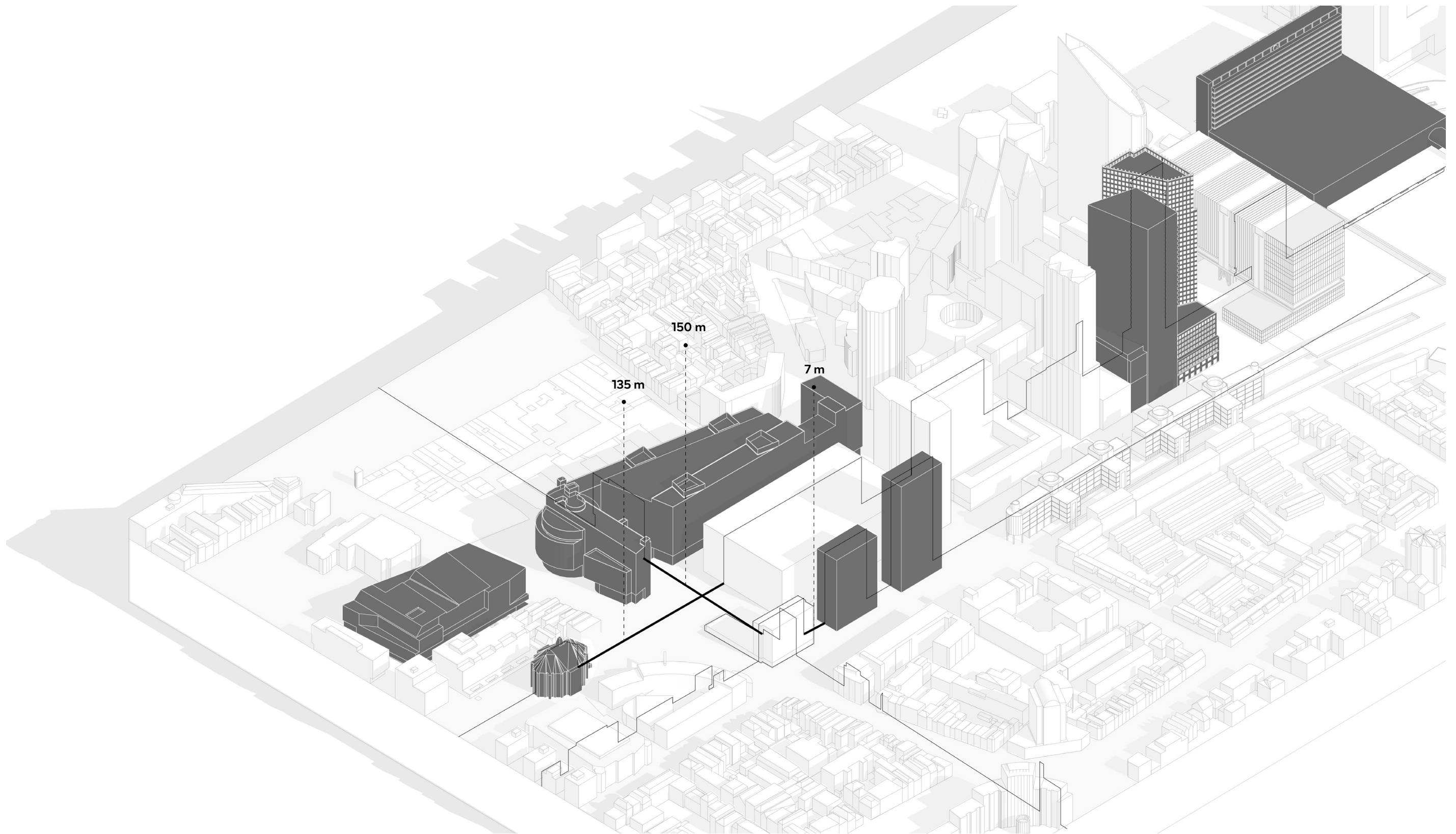




### *Concept of pilotis*

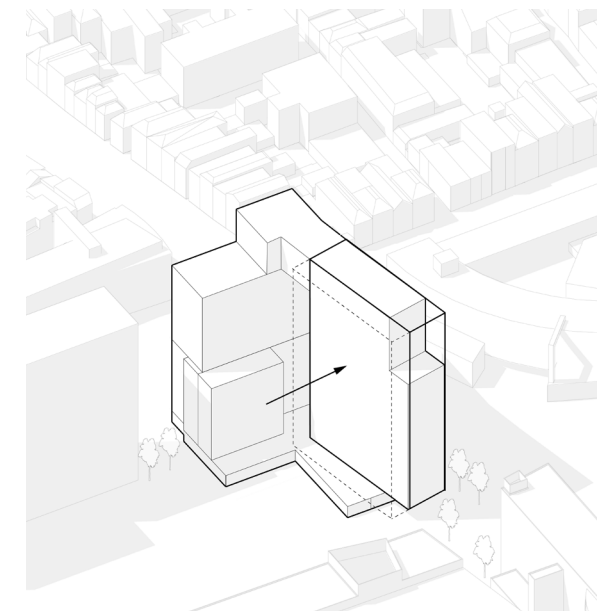
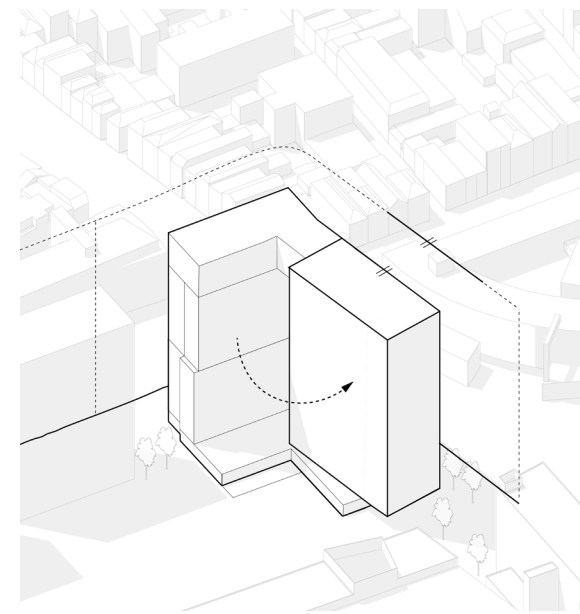
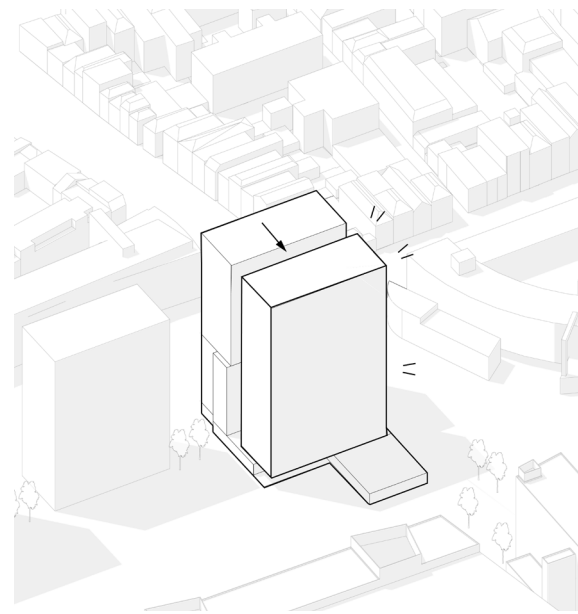
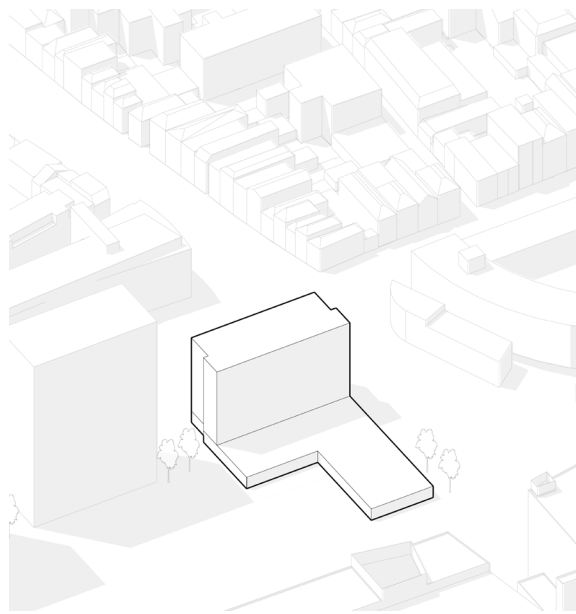
Le Corbusier's sectional sketch of the Unité d'Habitation in Marseille





### *Diversity of the City*

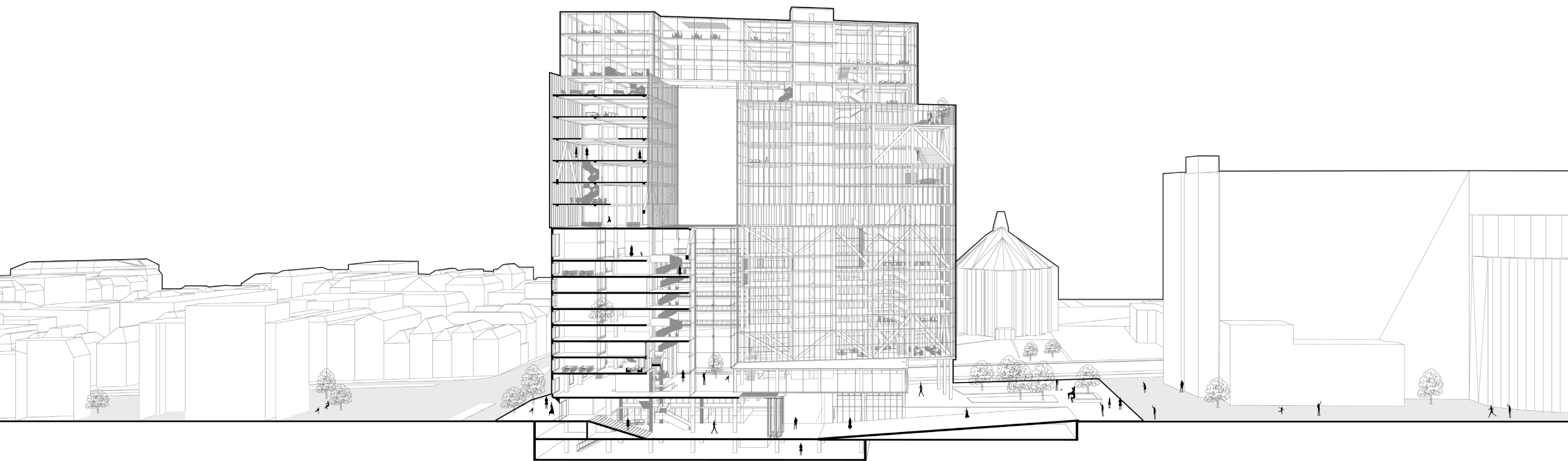
Sense of depth in urban area



*Mass design based on optimizing sensory experience*

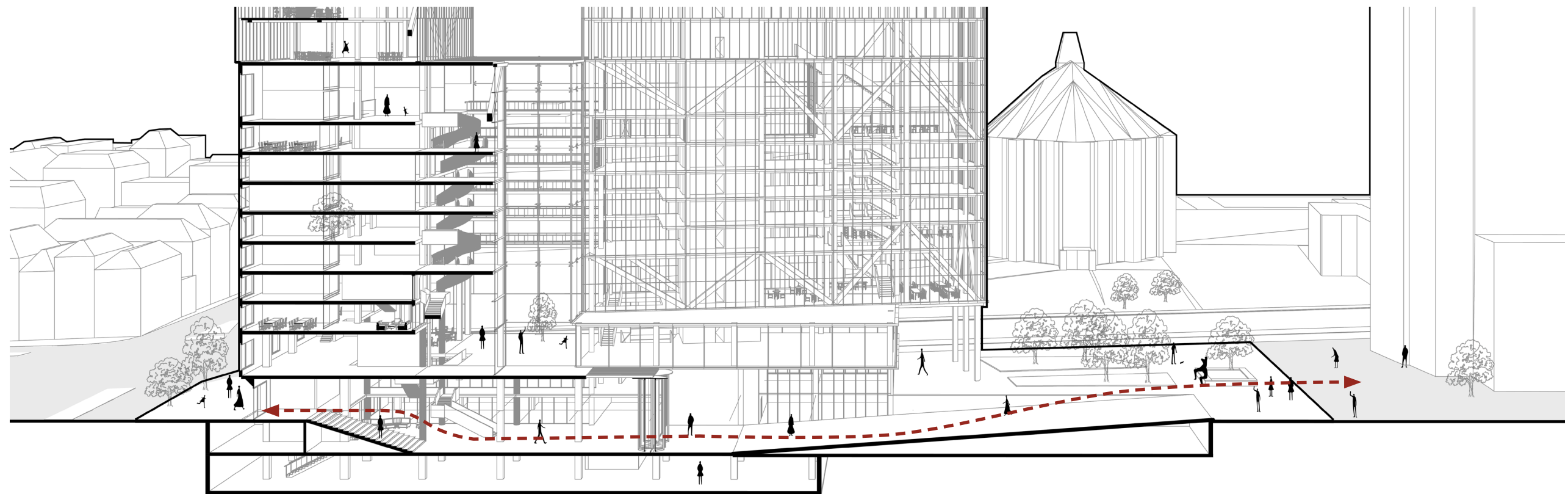
Mass progress diagram





*Walking-level and high-level view in vertical campus*

Urban Section



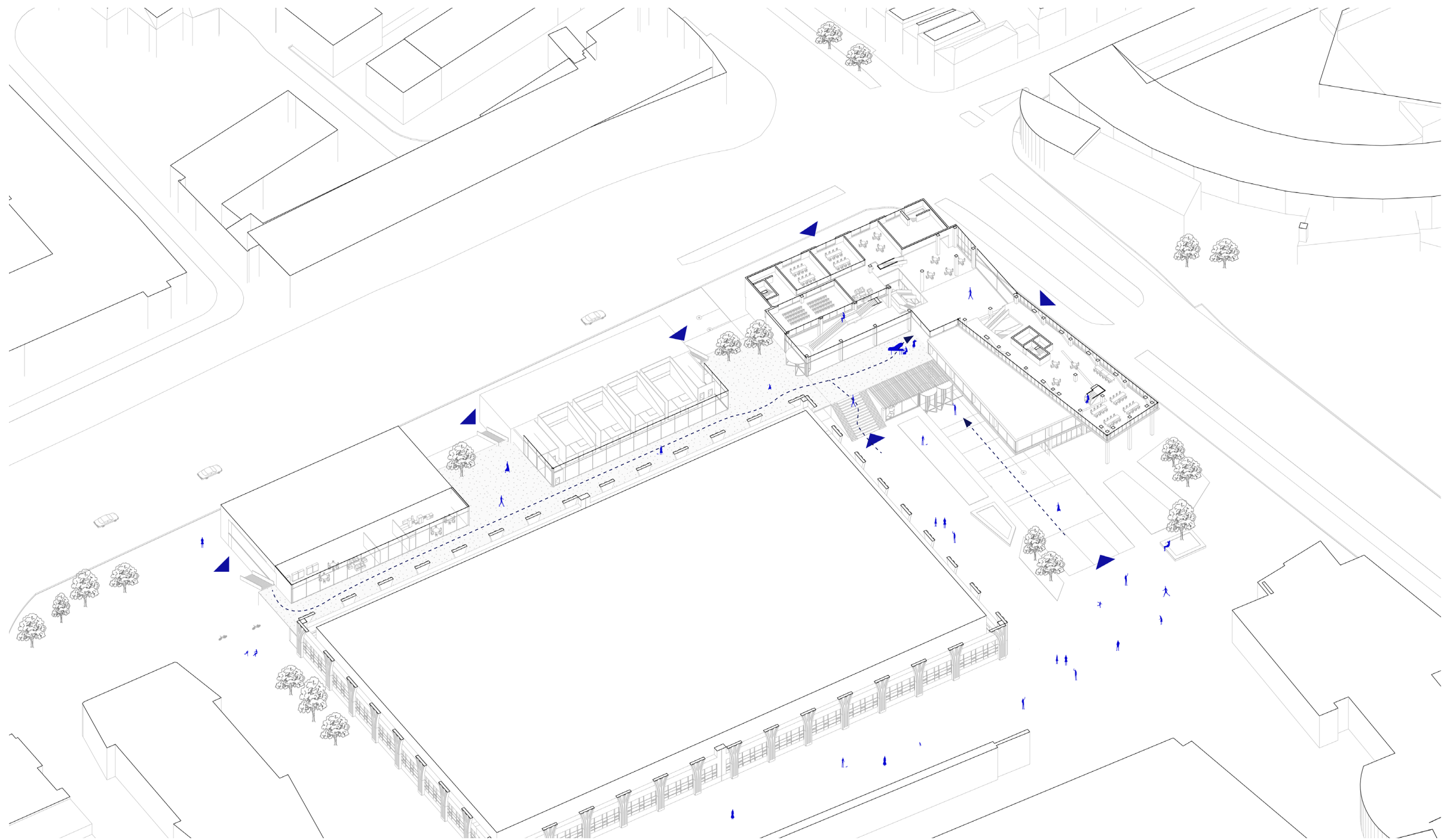
Height difference : 3.1 m  
Ramp angle : 4.09 °



*Walking-level view in vertical campus*

Slope design

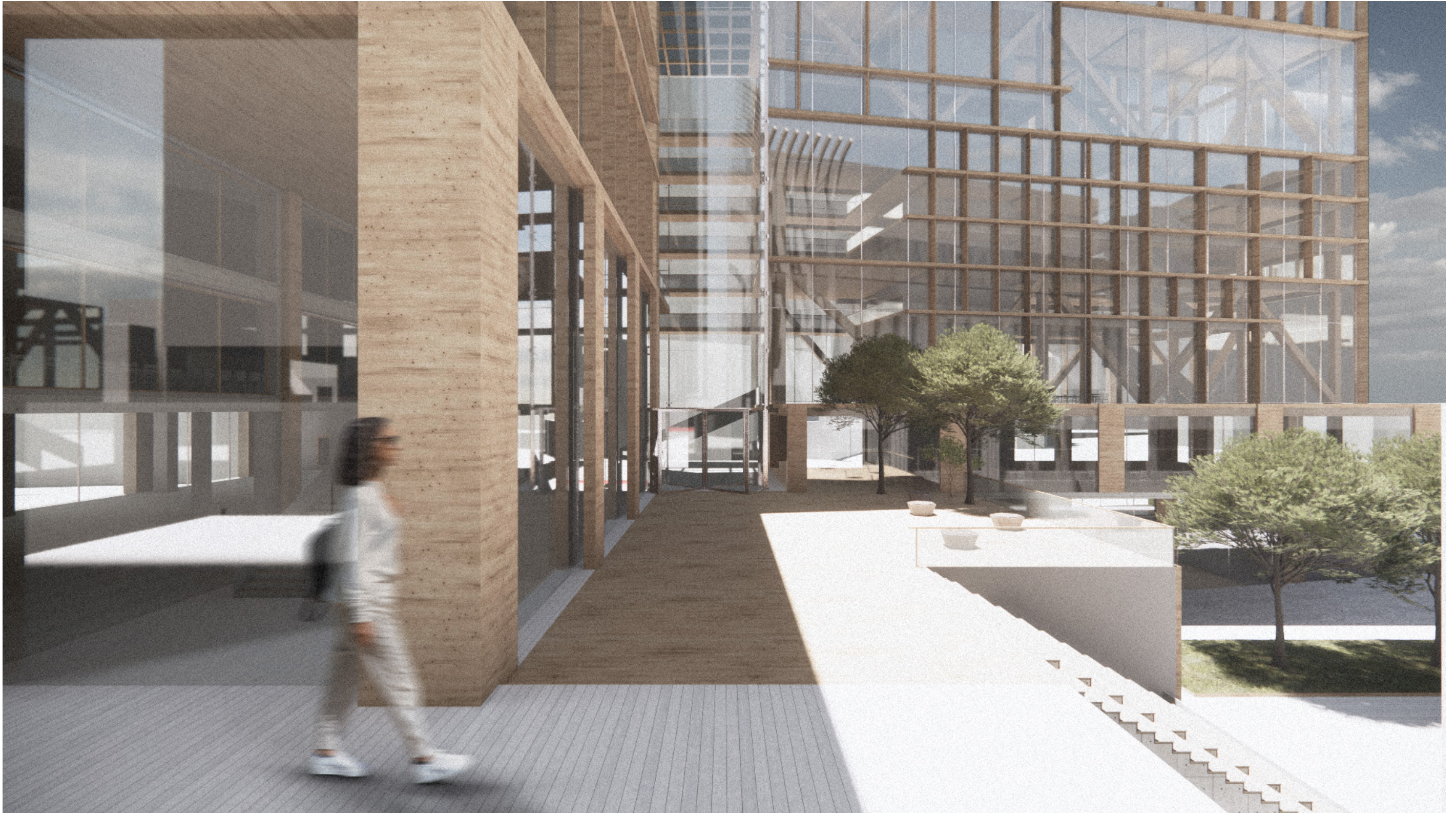




### *Urban Connection with Passage extension*

Reinforce physical connection between street and buildings





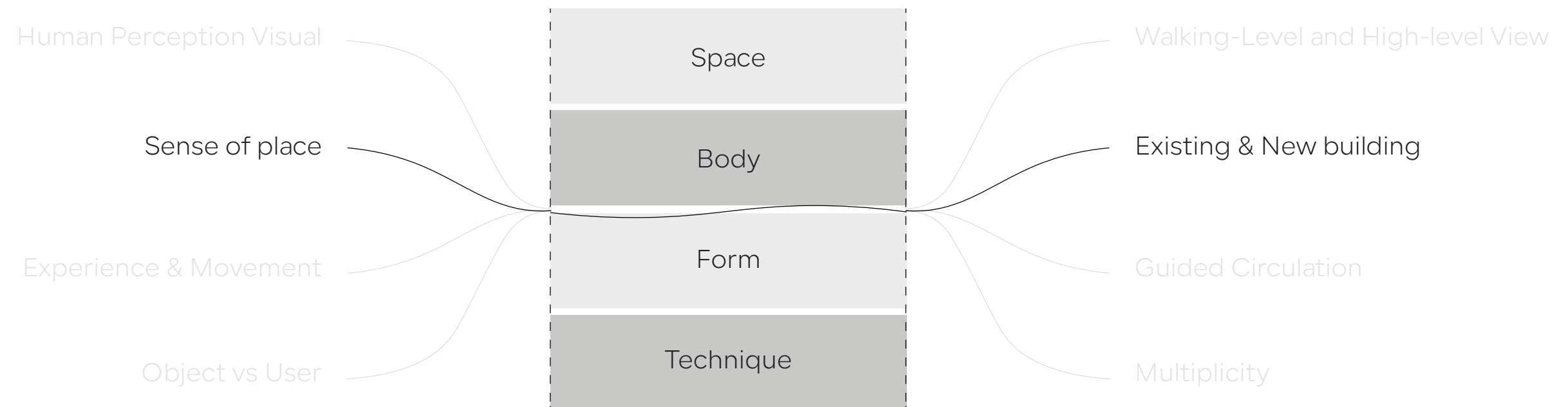
*Passage Perspective view*

Passage working as extension of the campus

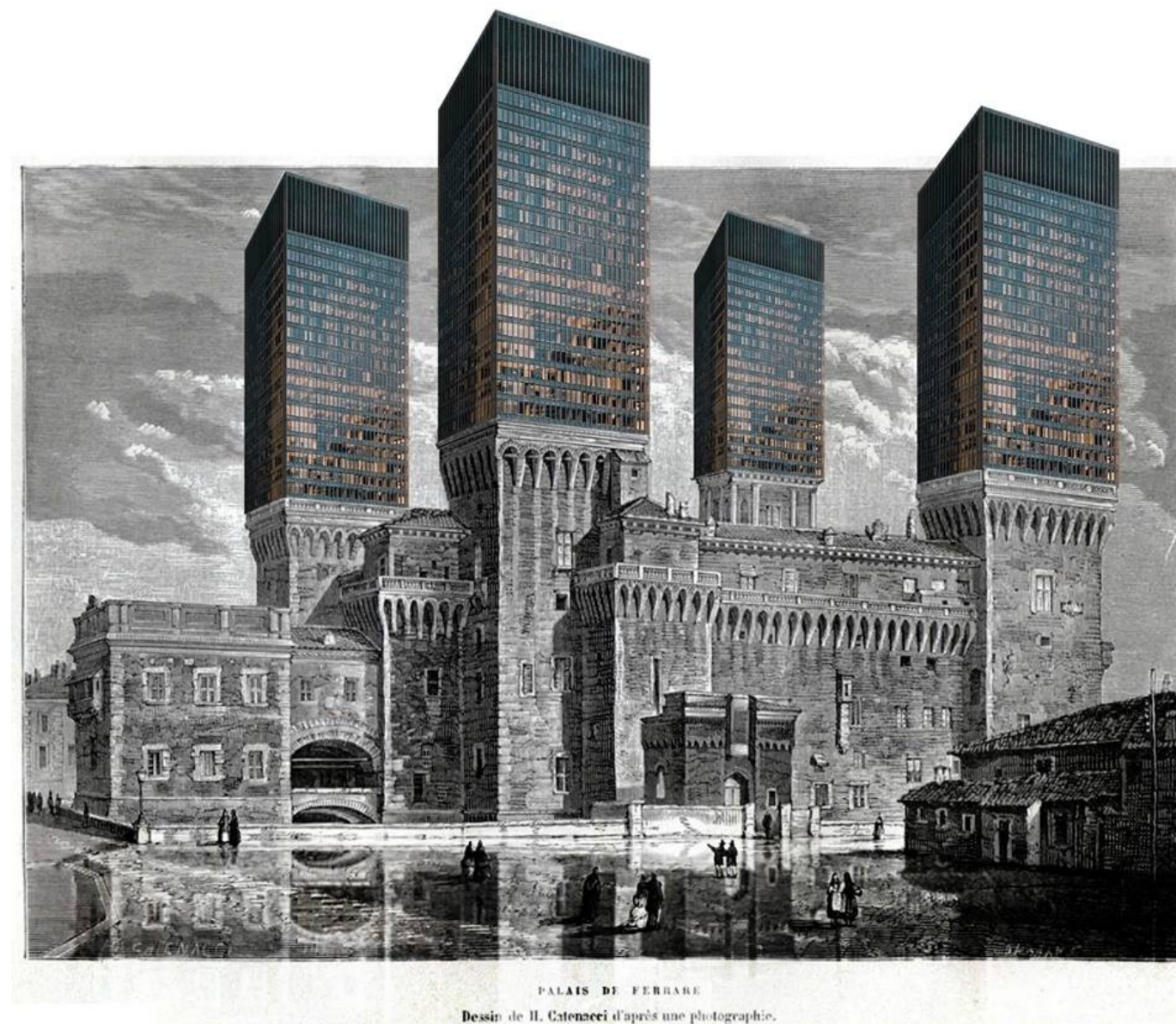


## Phenomenology

## Vertical Campus

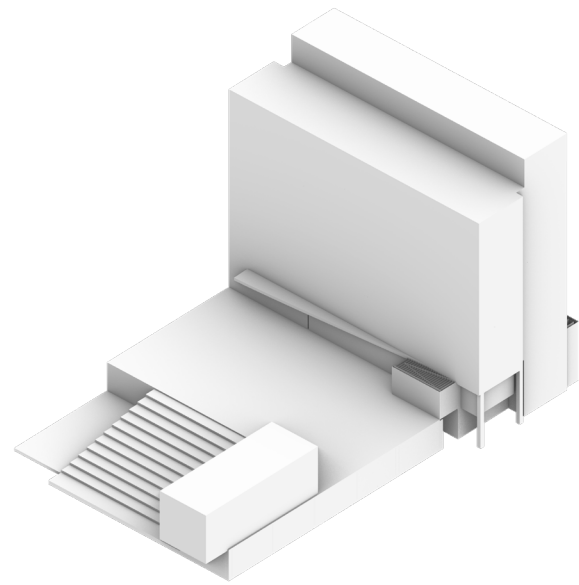


Existing VS  
& New



“/u-to·pi-a/” Contribute for the zine produced by Collettivo Järfälla, 2019



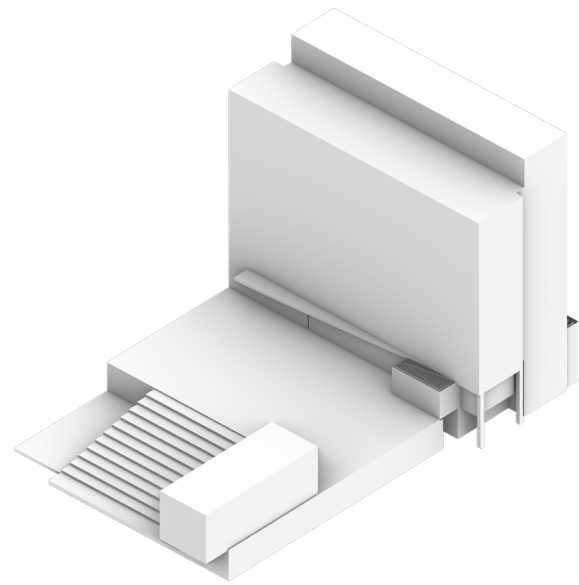


Existing building

Use of concrete as the main material

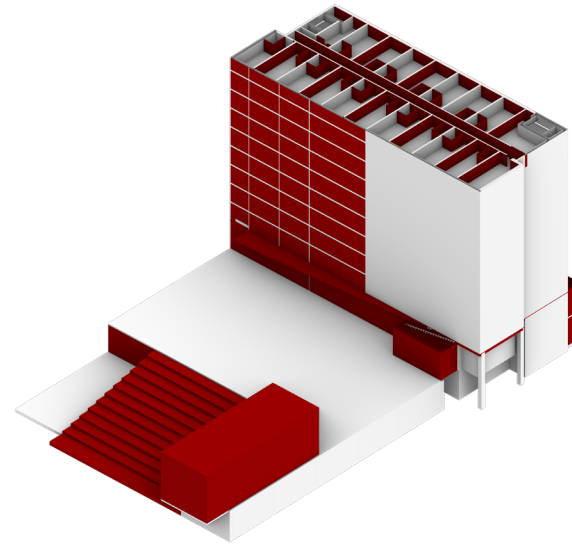
***Sustainable construction strategy***

Embodied Carbon of materials



Existing building

Use of concrete as the main material

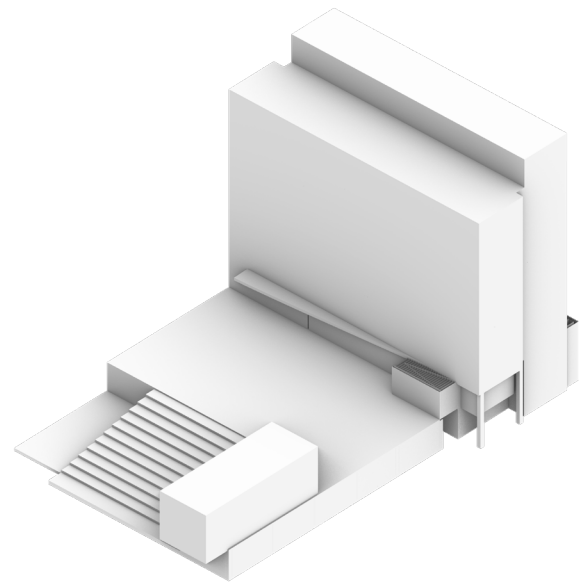


Minimum demolition

Demolishing 20% of the existing building  
(4373.9 m<sup>3</sup>)

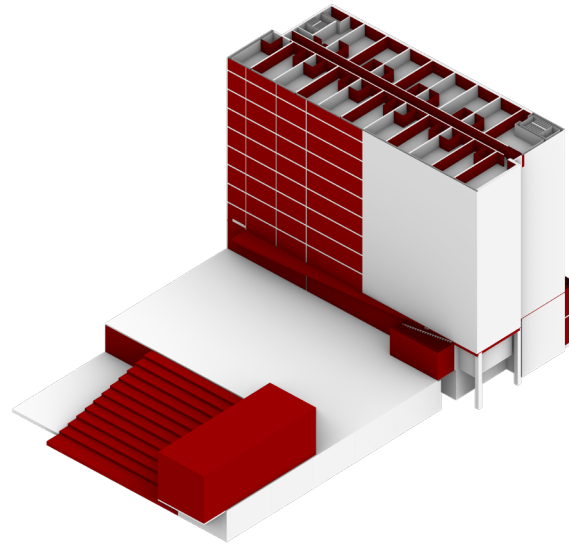
### *Sustainable construction strategy*

Embodied Carbon of materials



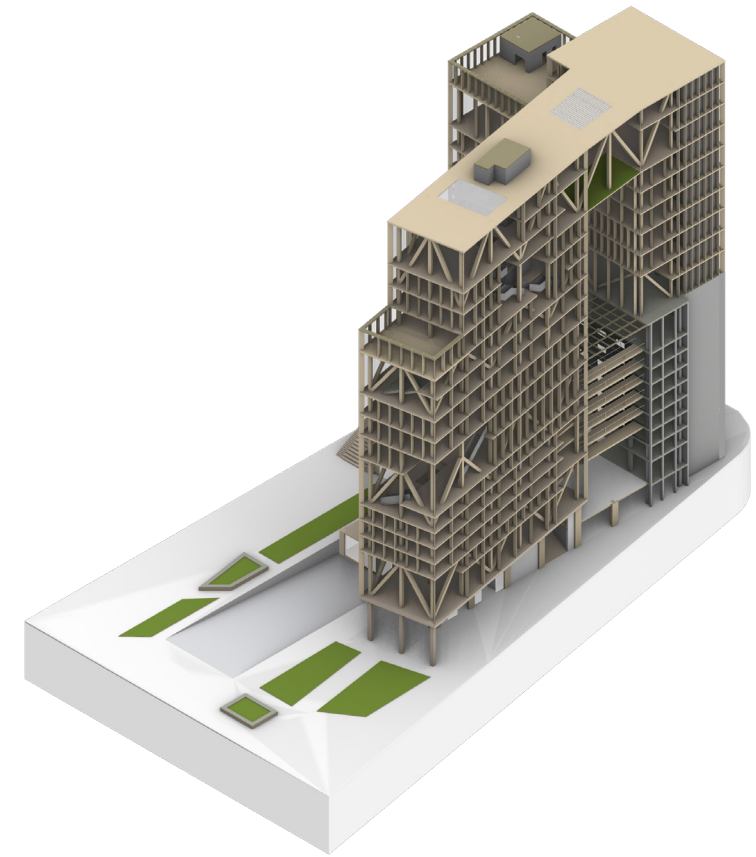
Existing building

Use of concrete as the main material



Minimum demolition

Demolishing 20% of the existing building  
(4373.9 m<sup>3</sup>)



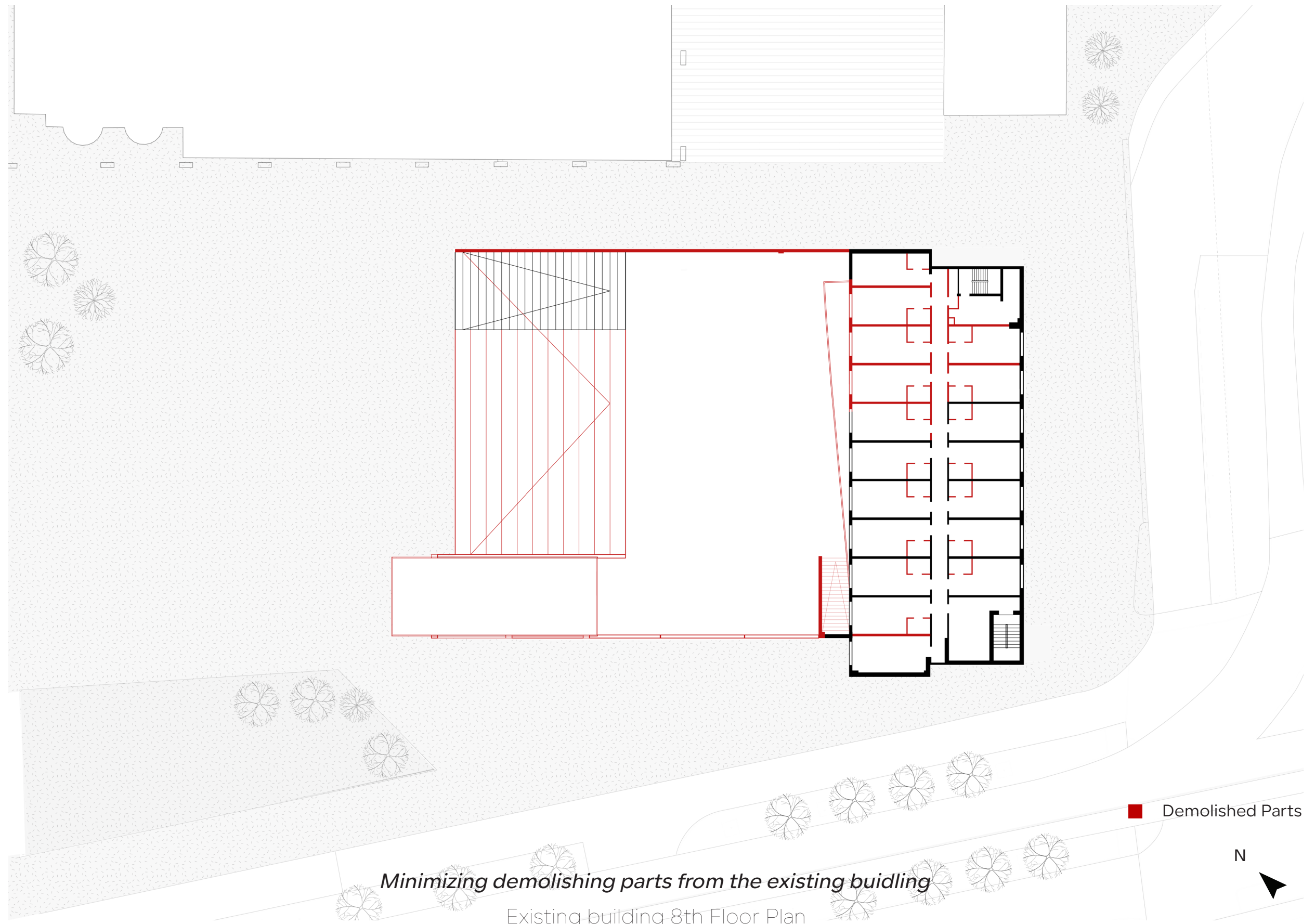
Sustainable campus

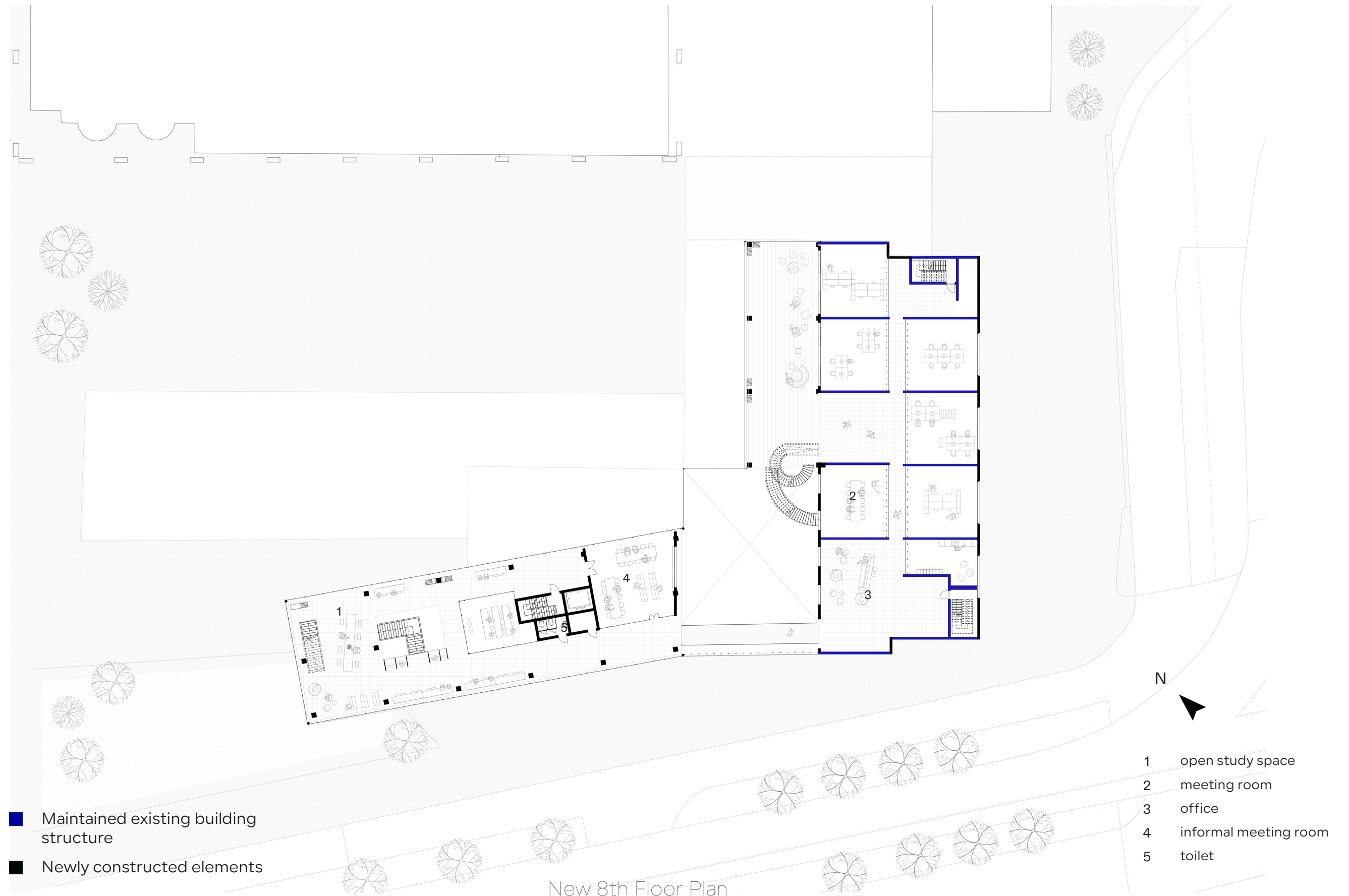
Bio-based material use - Timber (CLT Panel)  
Low embodied carbon

***Sustainable construction strategy***

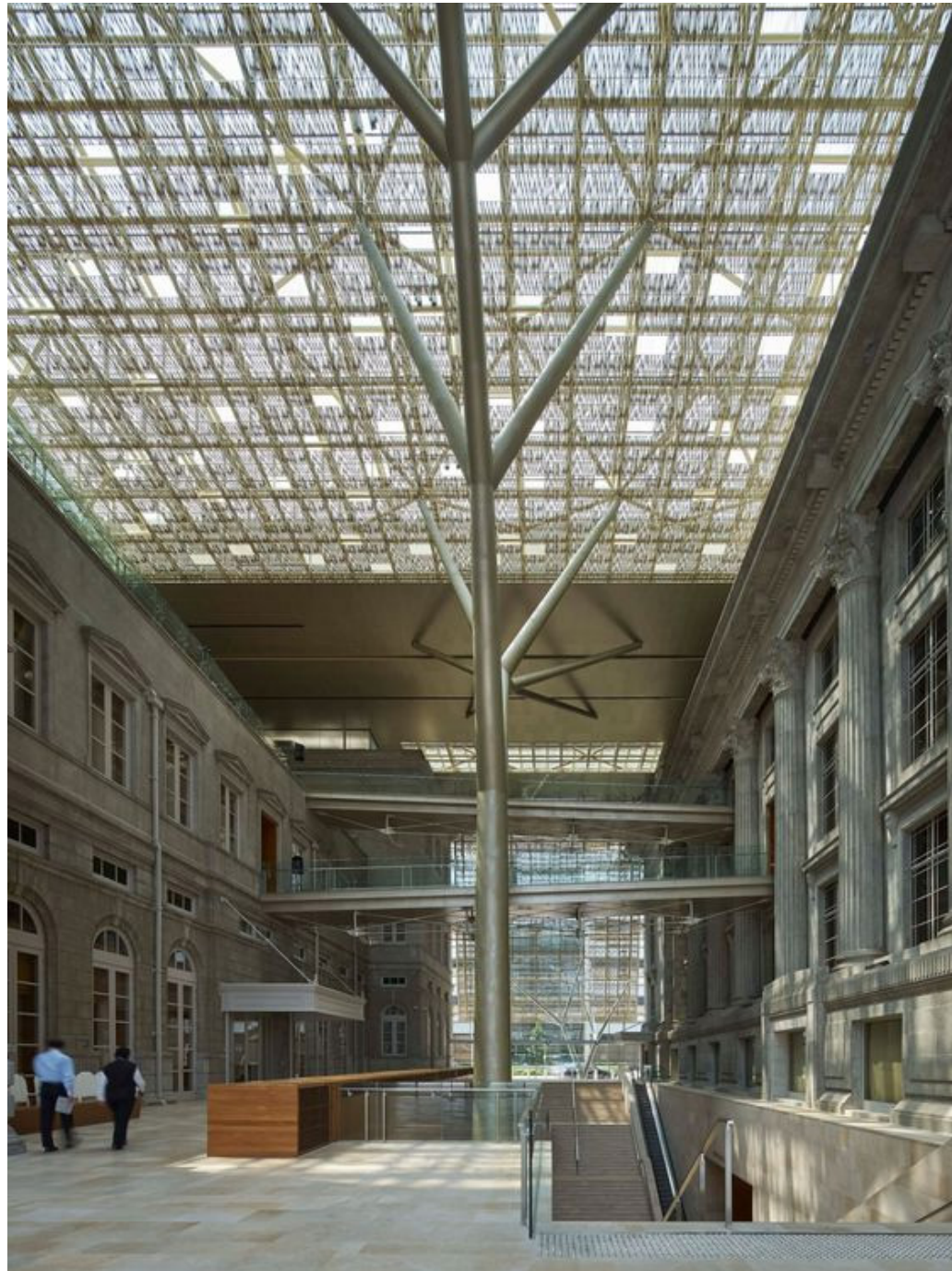
Embodied Carbon of materials











Singapore National Art Gallery, Studiomilou



Rotermann's Old and New Flour Storage, HGA (Hayashi – Grossschmidt Architektur)

### *Use of existing building facade as transition area*

Bridging between the gaps



Blue Tiles from Existing Building



+

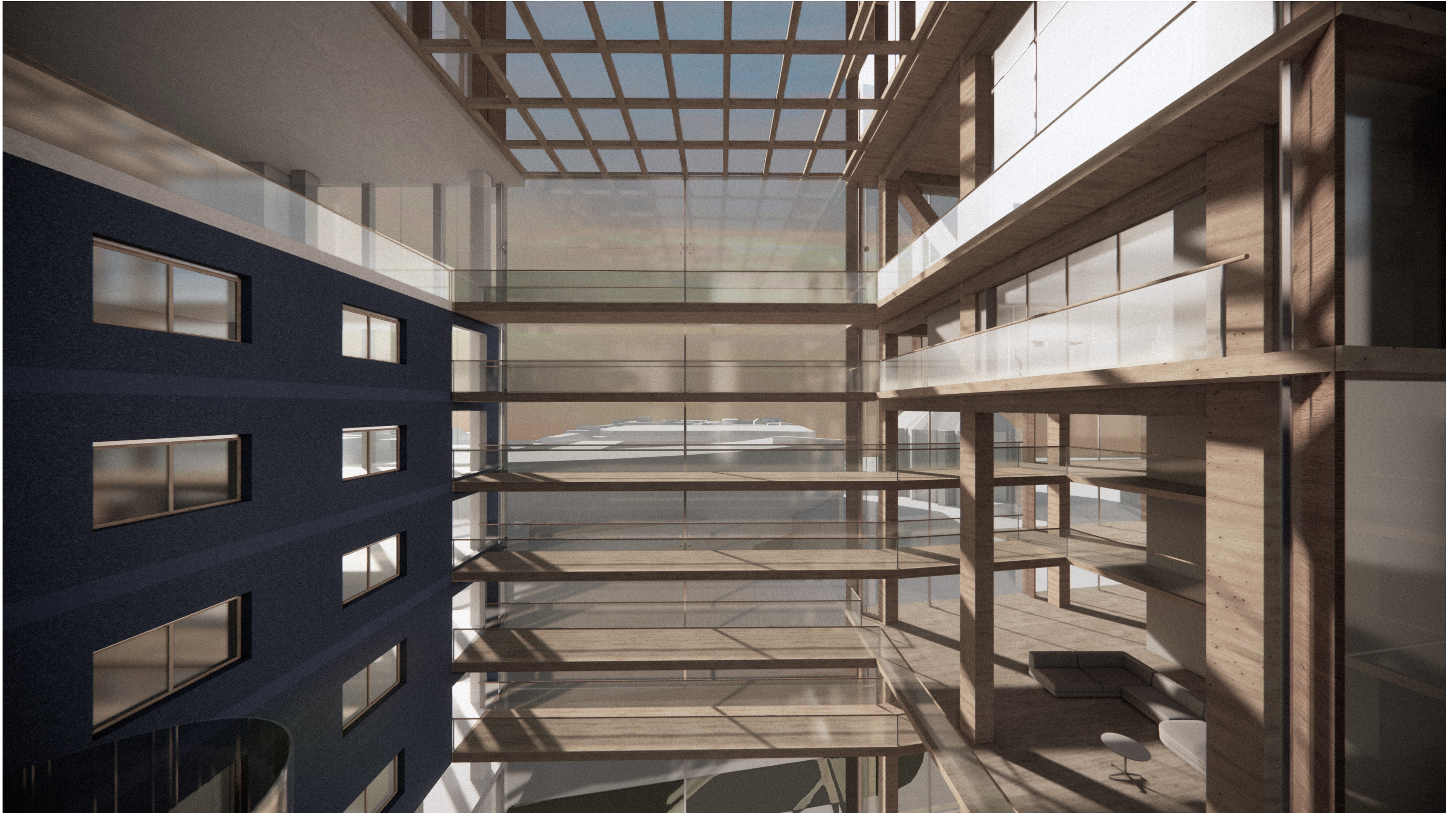


New Materials with  
different textures and colours

⋮

*Space transition with colour for boundaries*  
Evoking texture consciousness in the space





*Atrium where old facade becomes a new wall*

Atrium perspective view



**Phenomenology**

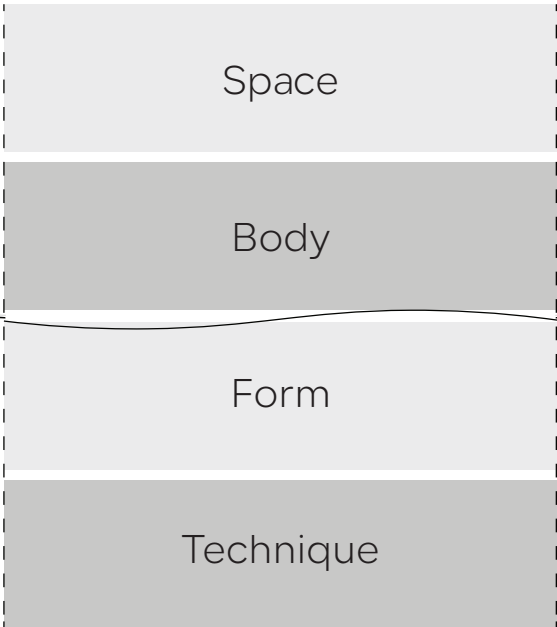
**Vertical Campus**

Human Perception Visual

Sense of place

Experience & Movement

Object vs User

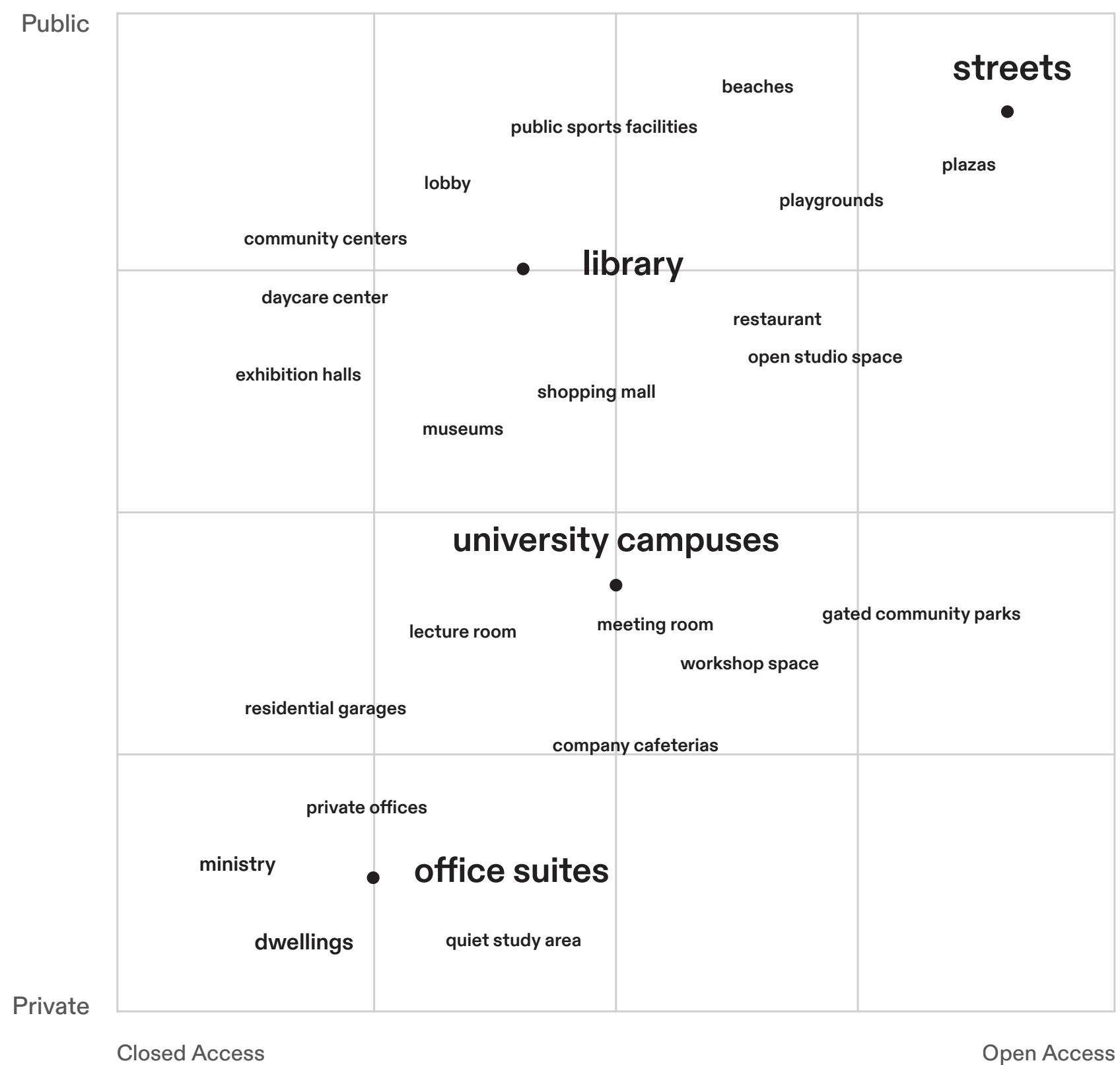


Walking-Level and High-level View

Old & New building

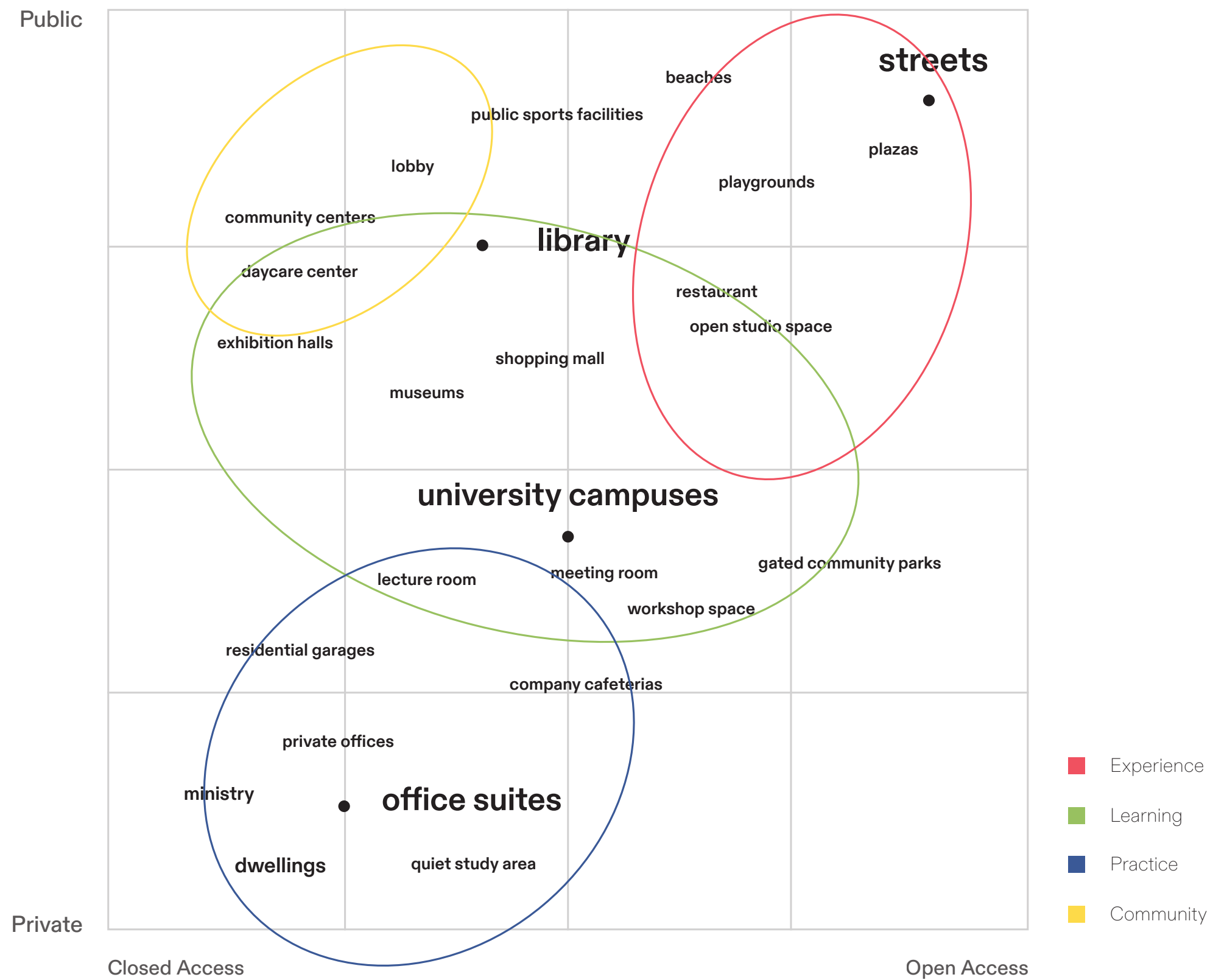
Guided Circulation

Multiplicity

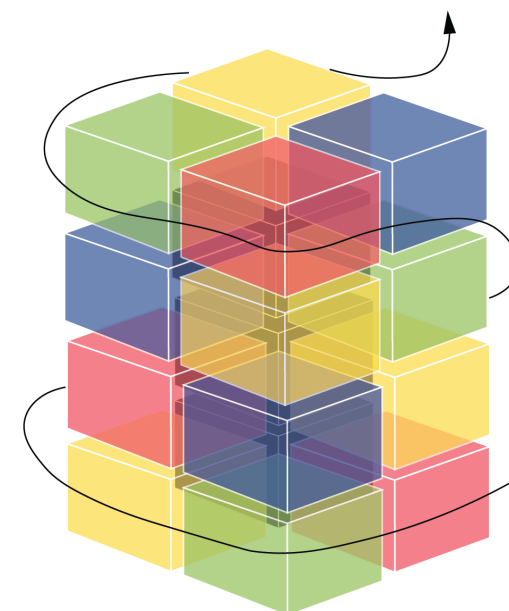
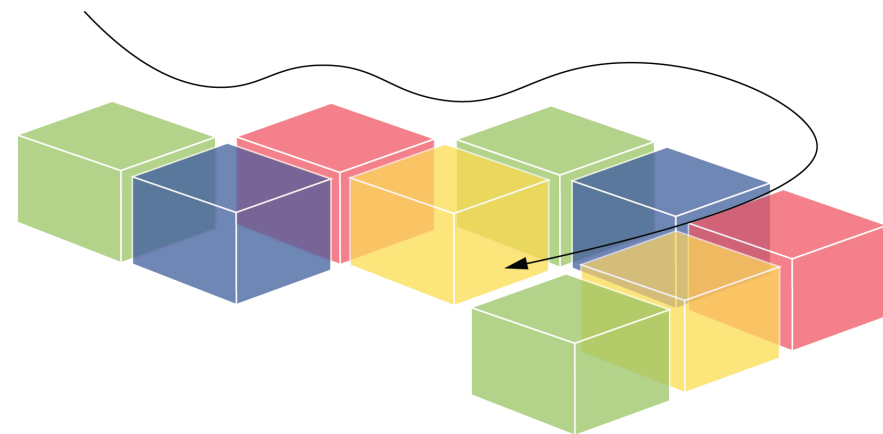


Defining programs





*Categorizing programs*

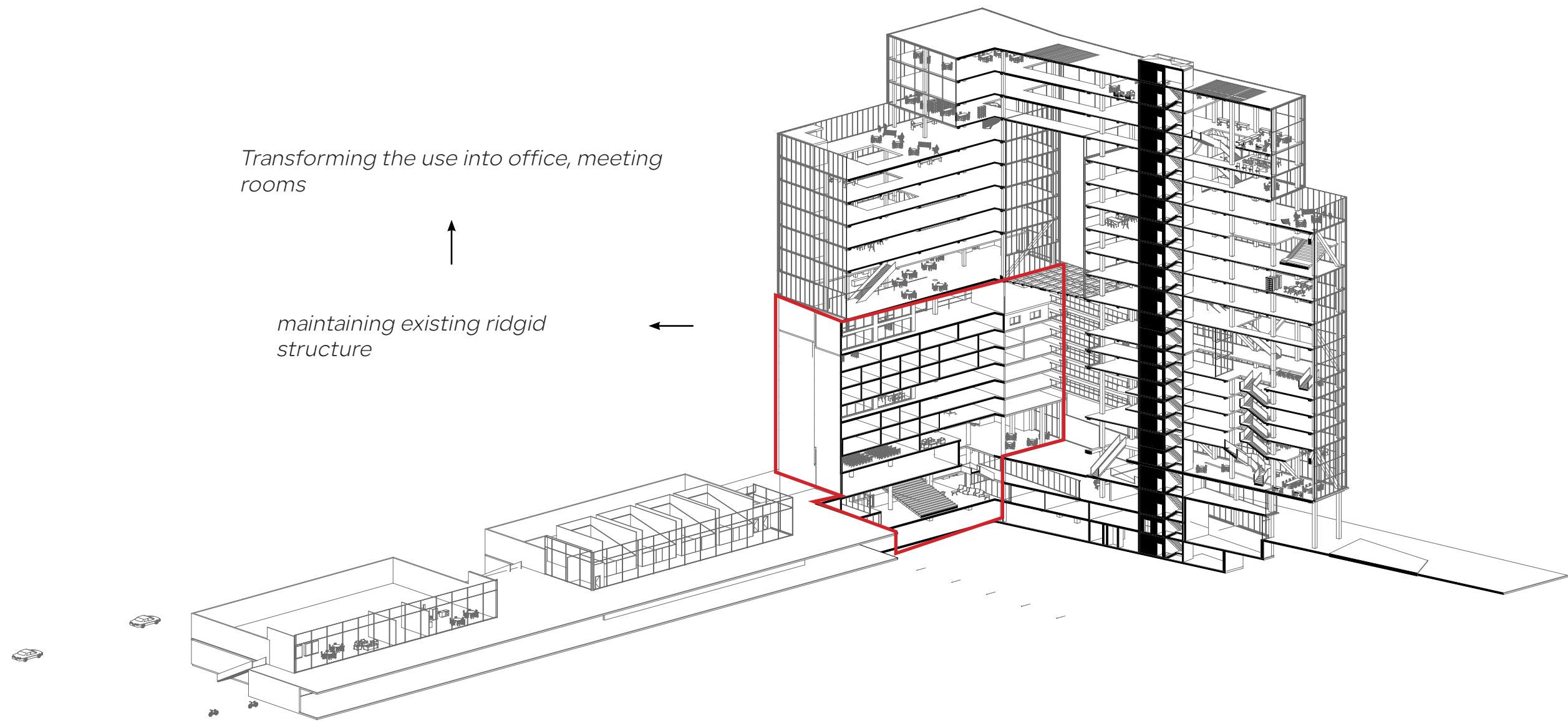


- Experience
- Learning
- Practice
- Community

*Learning cycle placement in vertical and horizontal direction*

Function Orientation





*Transforming the use into office, meeting rooms*

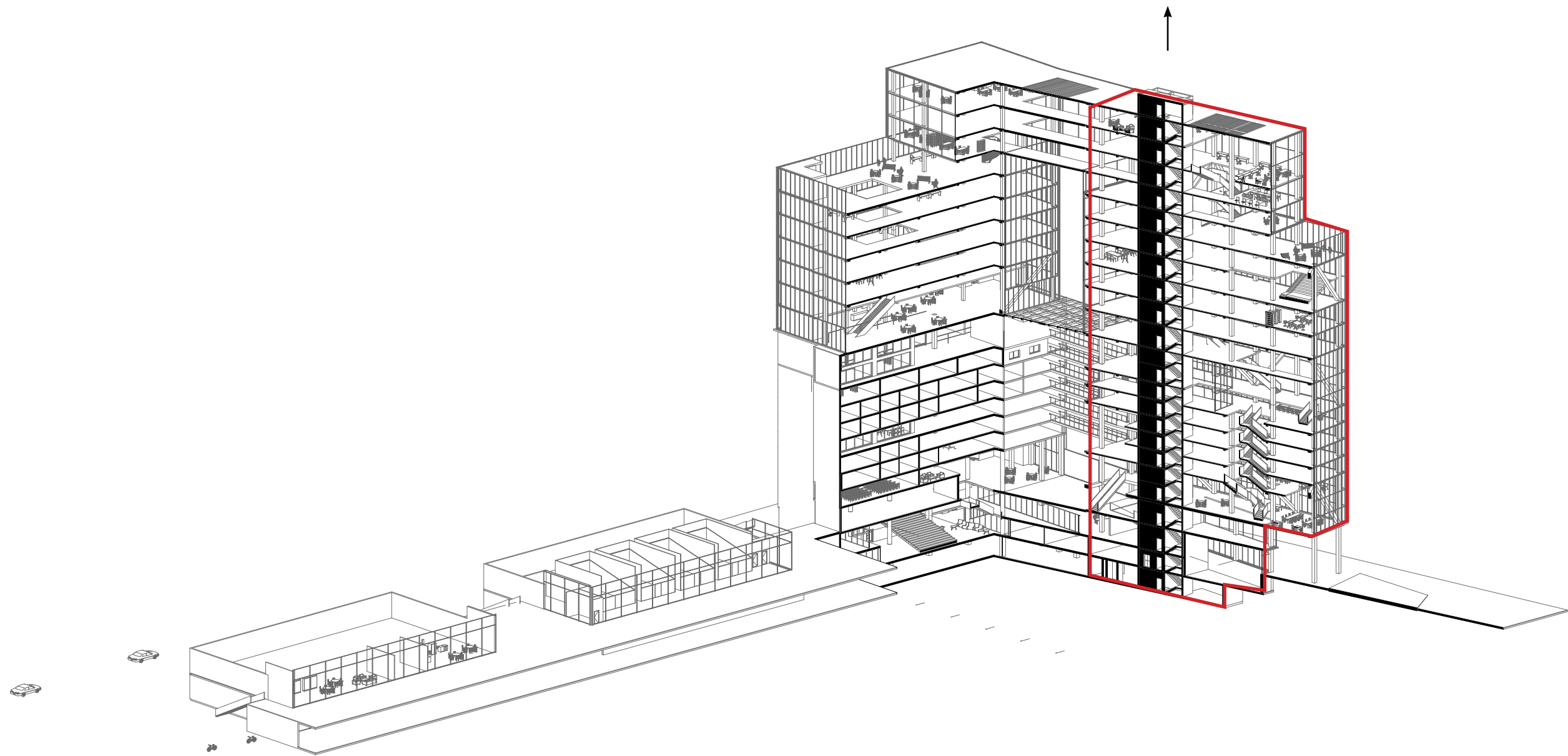
*maintaining existing rigid structure*

***Existing and New Building use***

Function Orientation

*Flexible use of space with active functions*

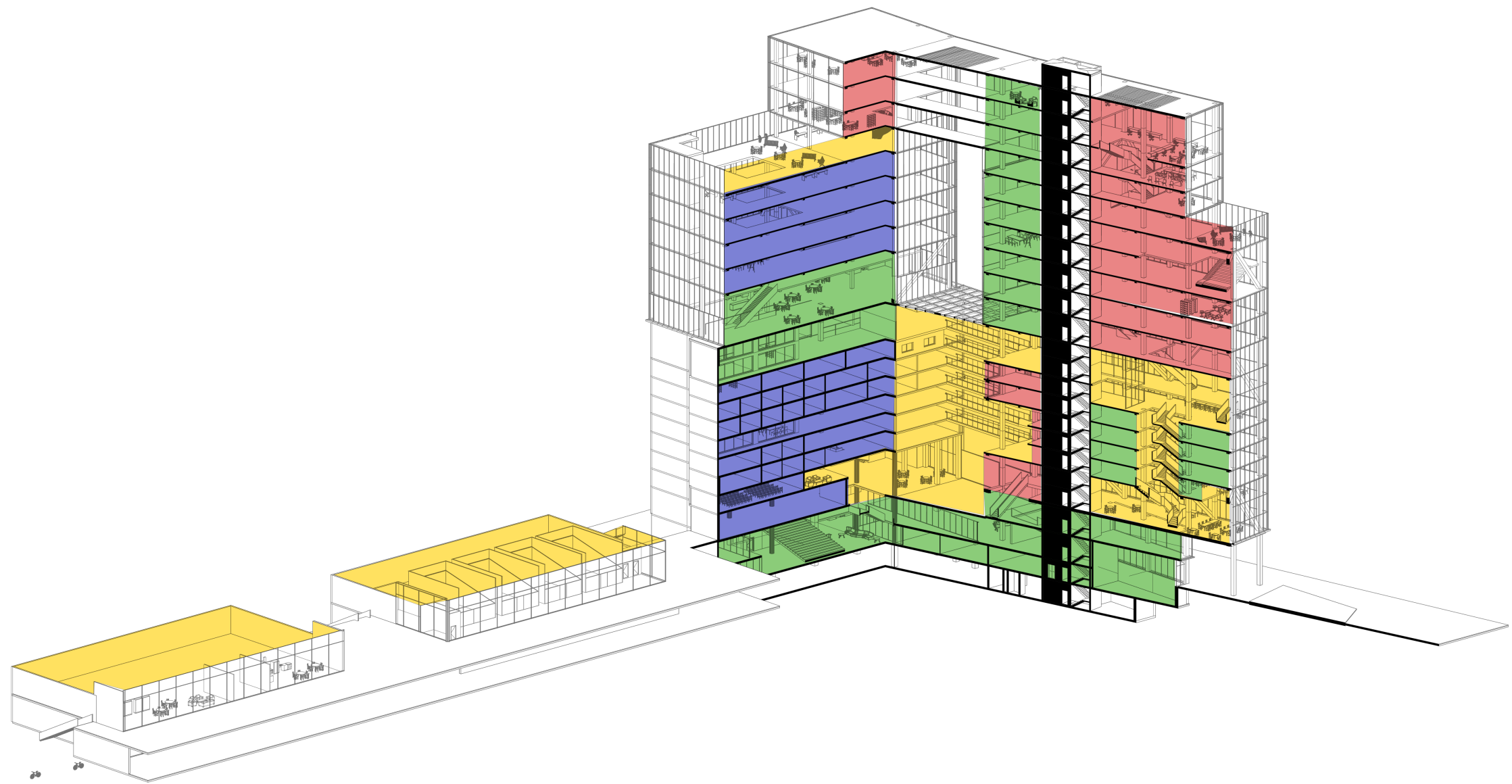
← *Open structure, and Open floor plans*



*Existing and New Building use*

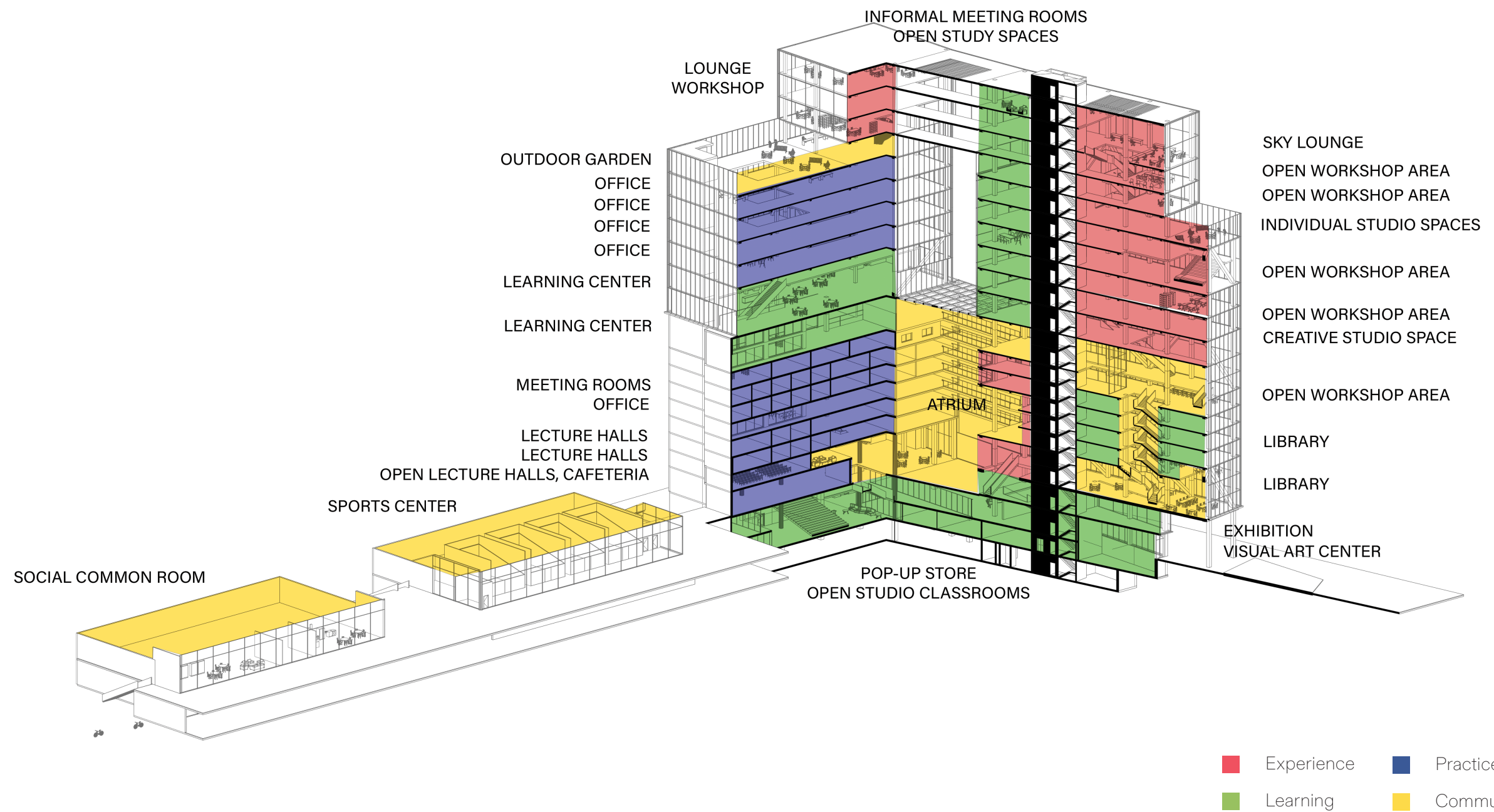
Function Orientation





- |   |   |
|---|---|
| <span style="color: red;">■</span> Experience | <span style="color: blue;">■</span> Practice    |
| <span style="color: green;">■</span> Learning | <span style="color: yellow;">■</span> Community |

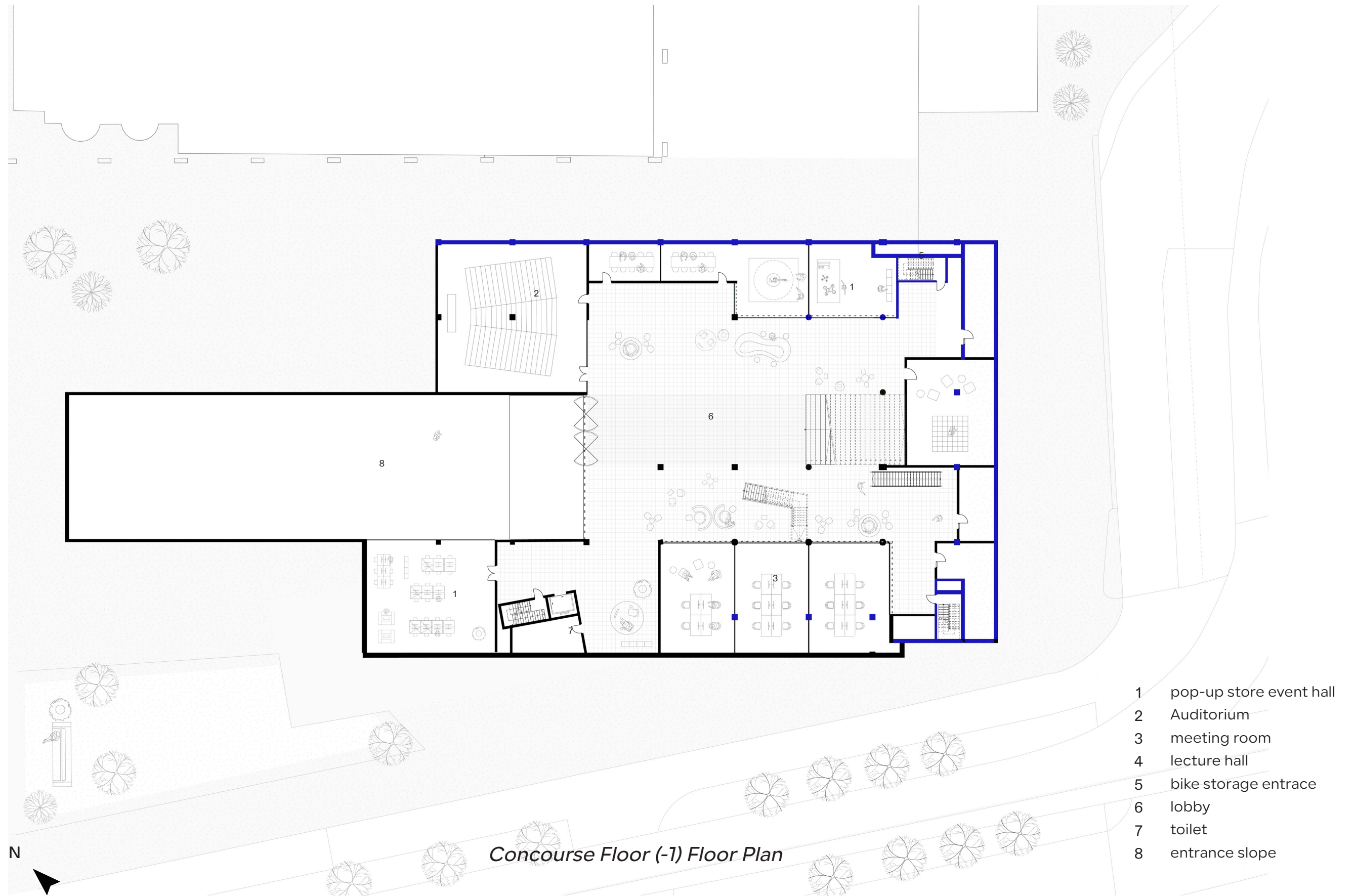
*Vertical Campus with hybridity*  
 Program organization based on the category



## Vertical Campus with hybridity

Program

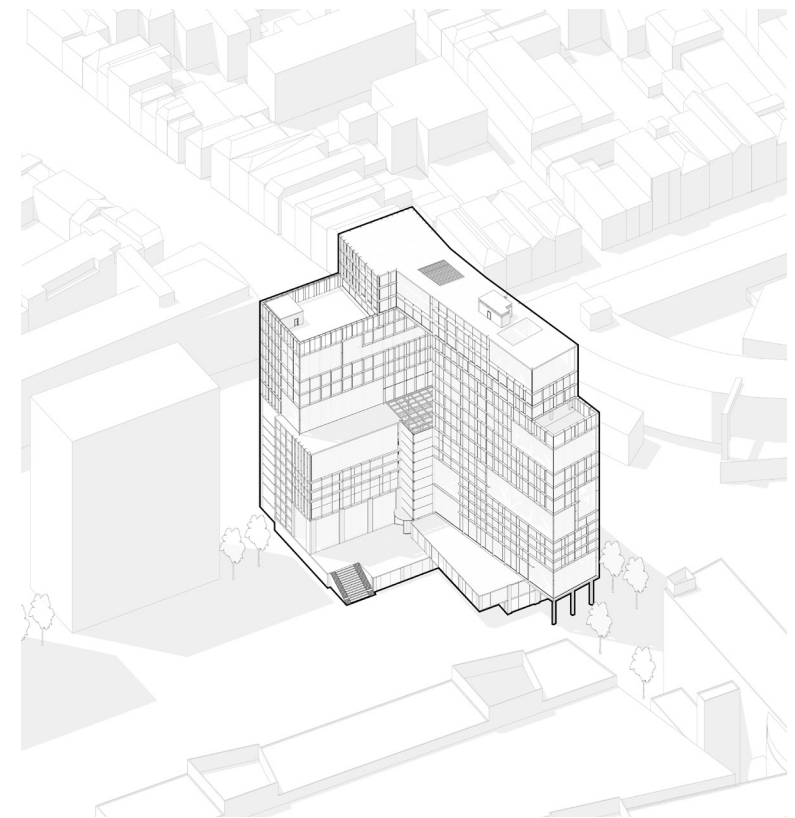
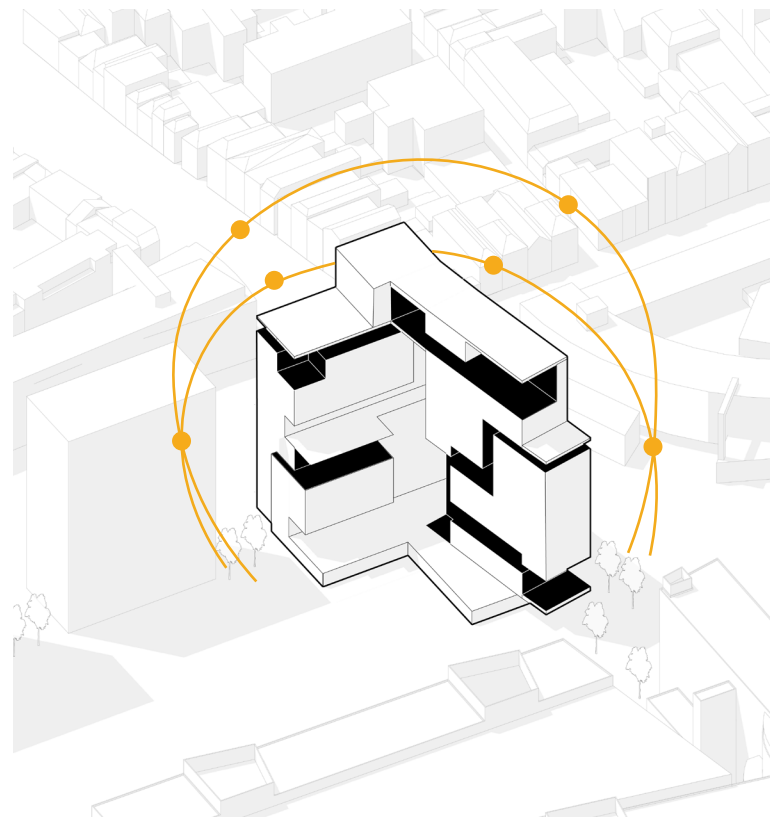
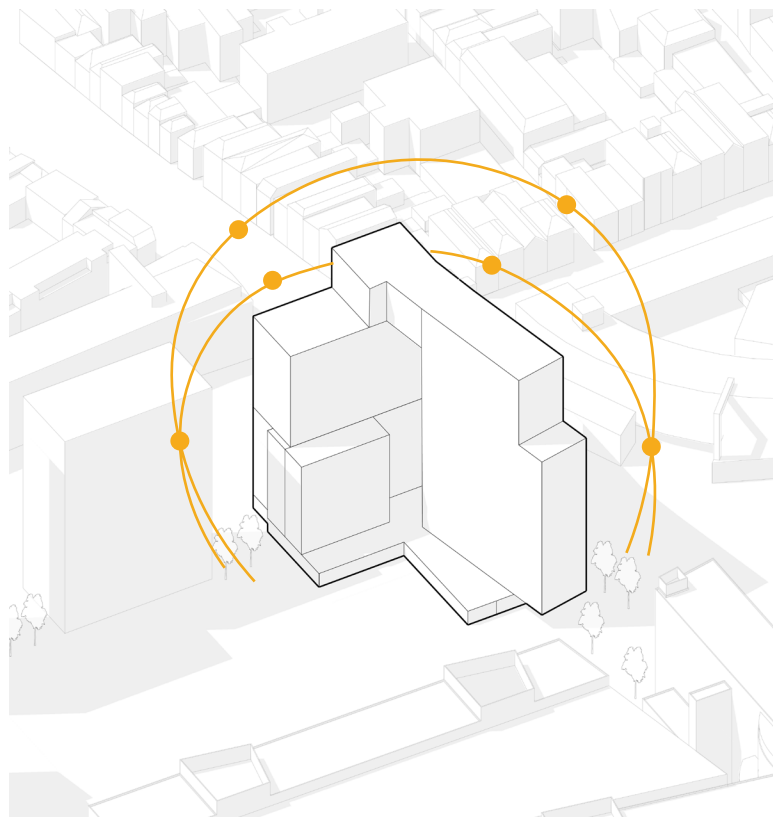




Light



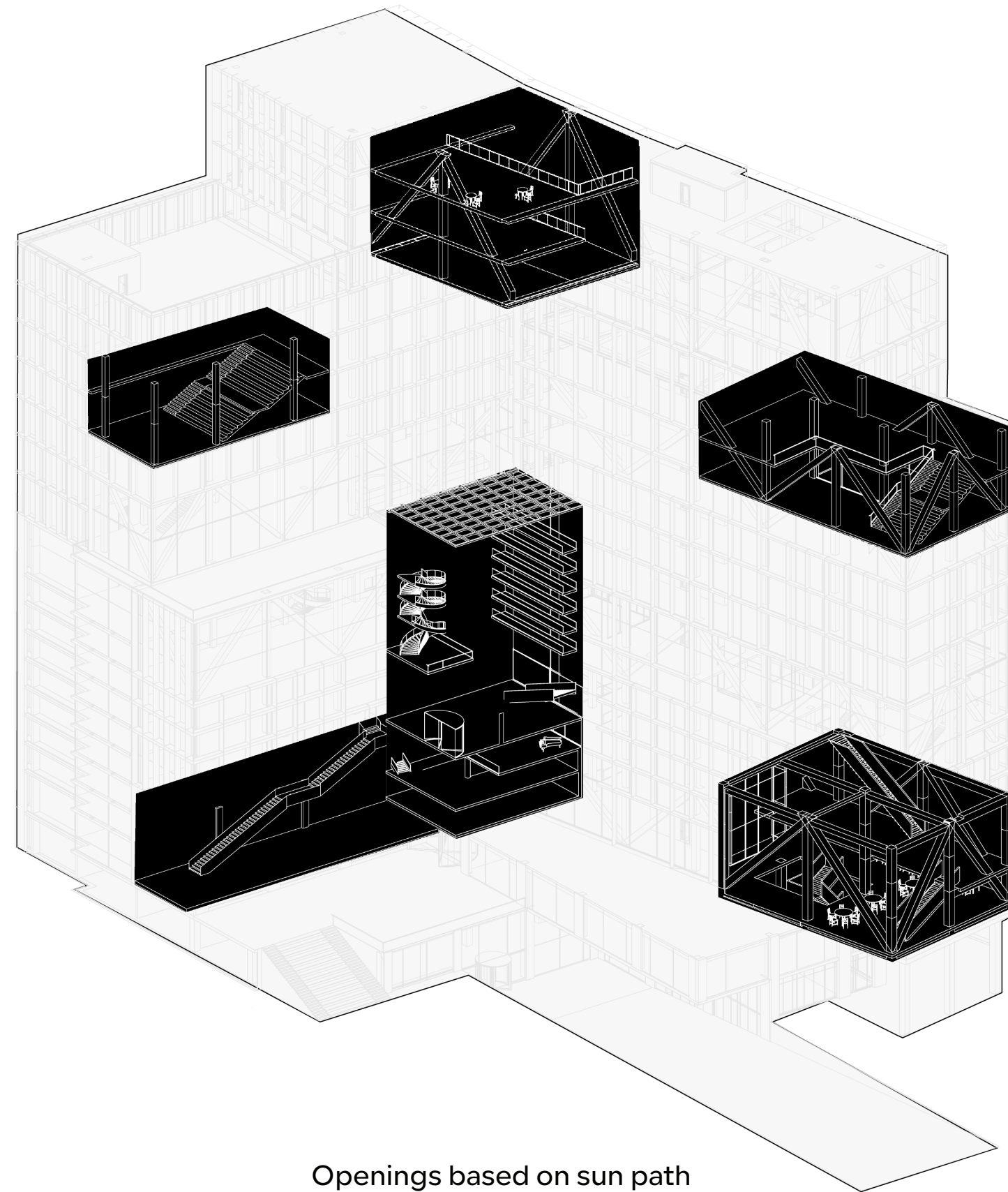




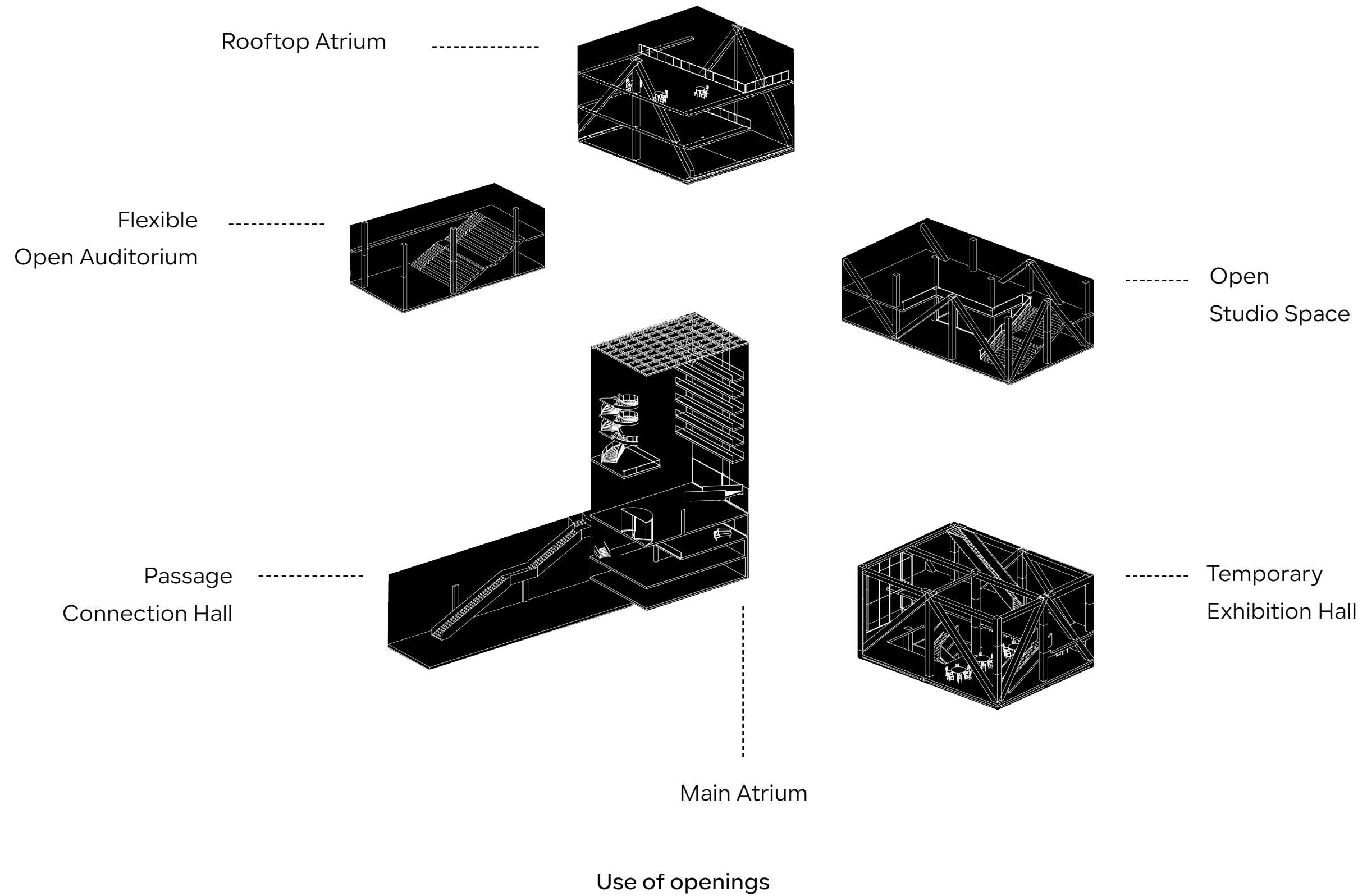
### *Optimizing Challenging Point*

Placing openings based on sun path

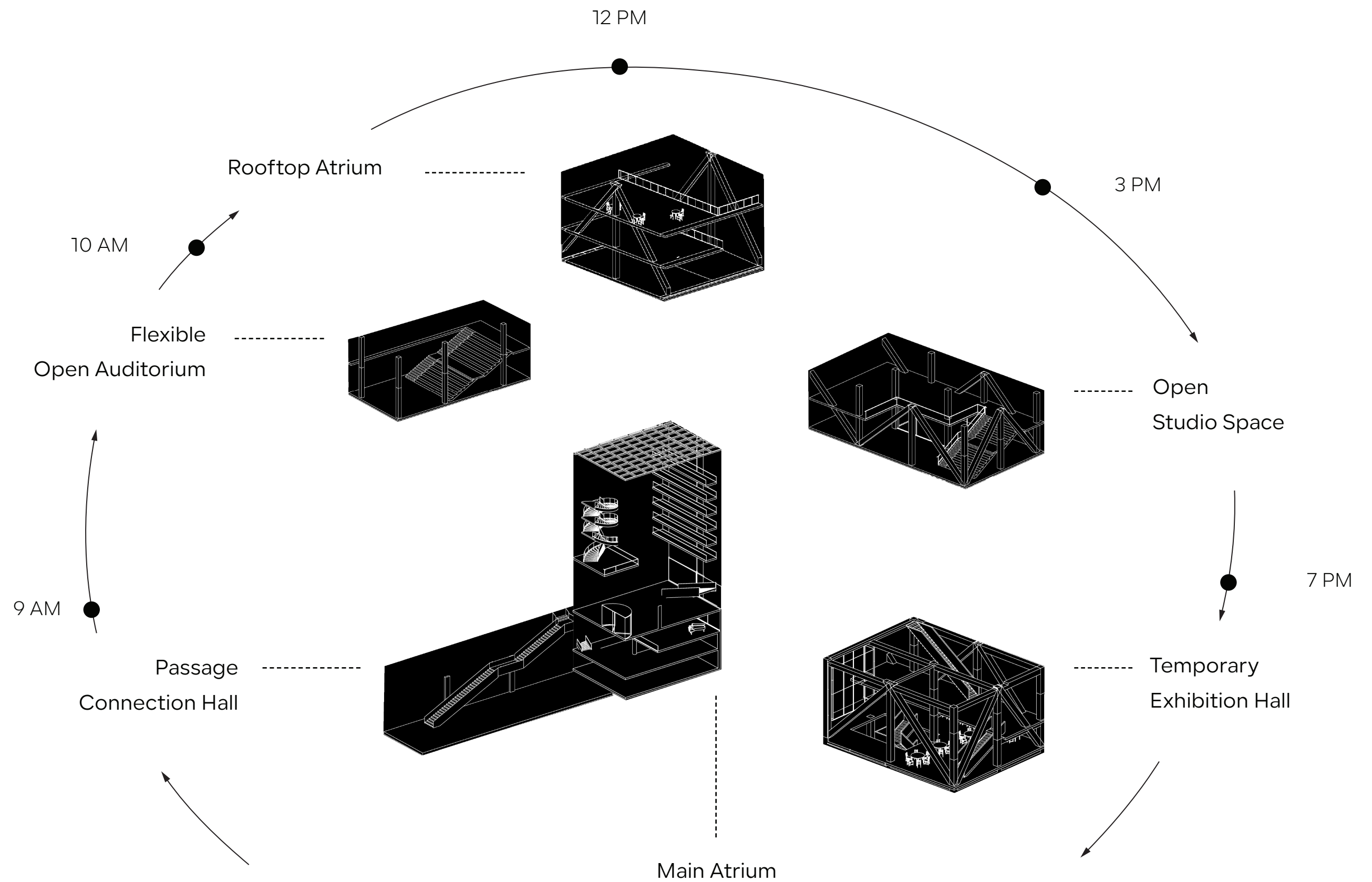


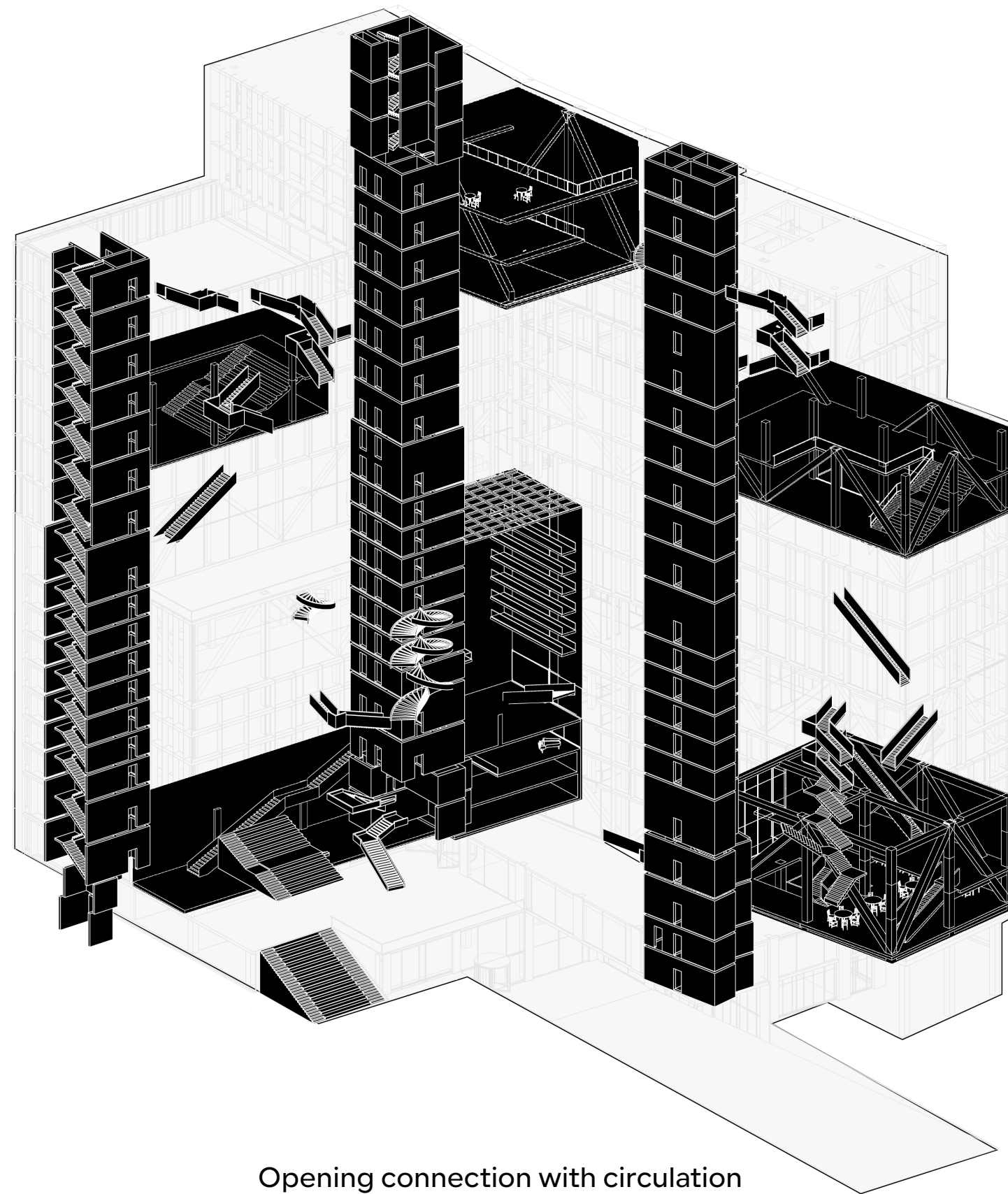


Openings based on sun path



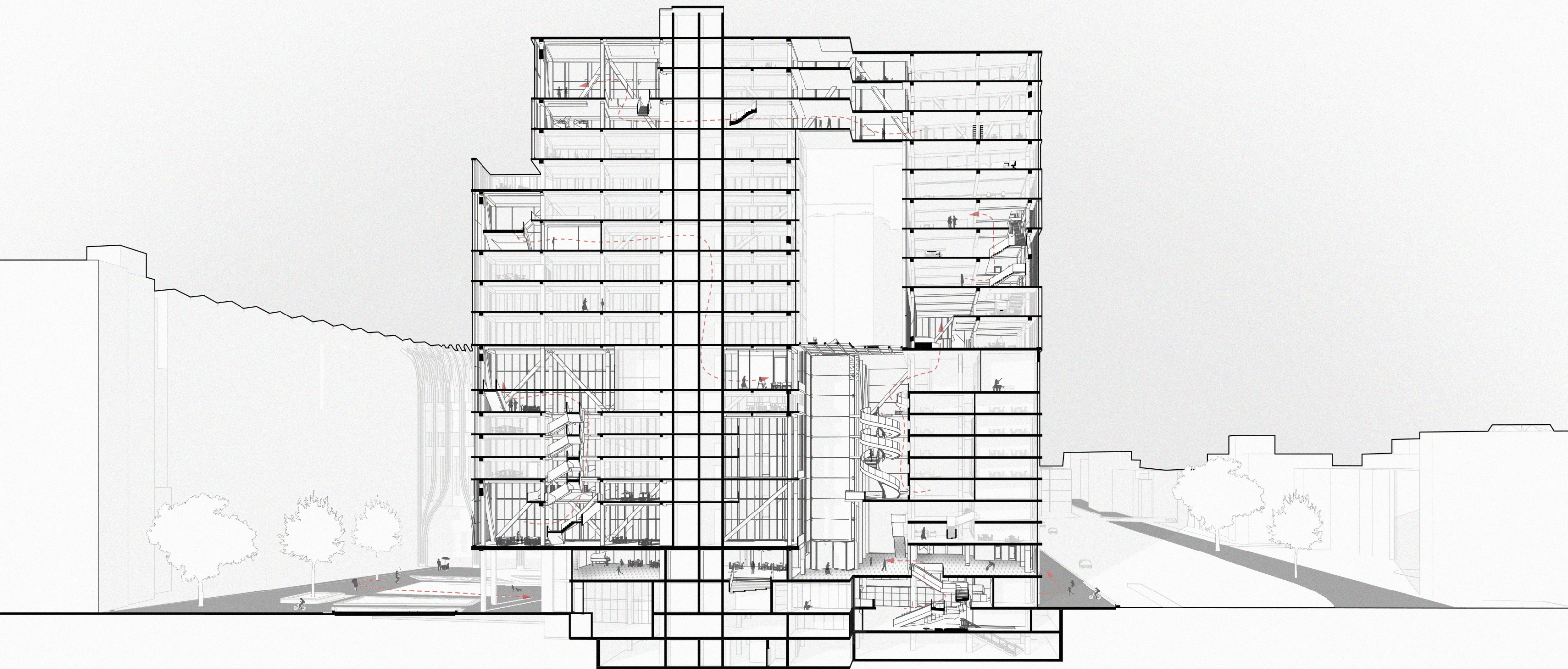






Opening connection with circulation







**Phenomenology**

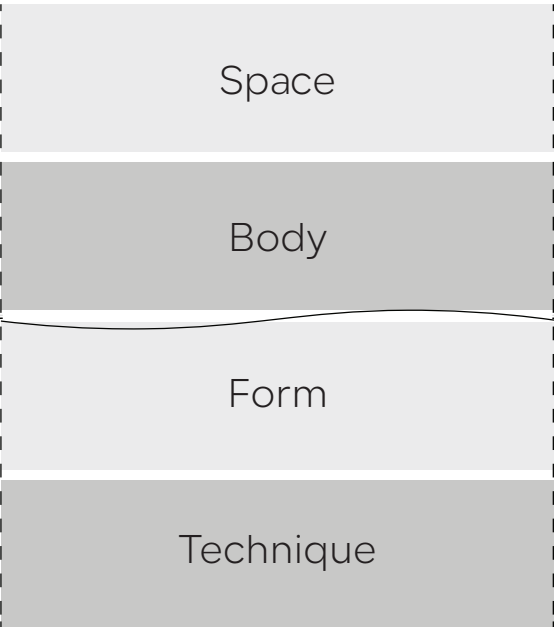
**Vertical Campus**

Human Perception Visual

Sense of place

Experience & Movement

Object vs User



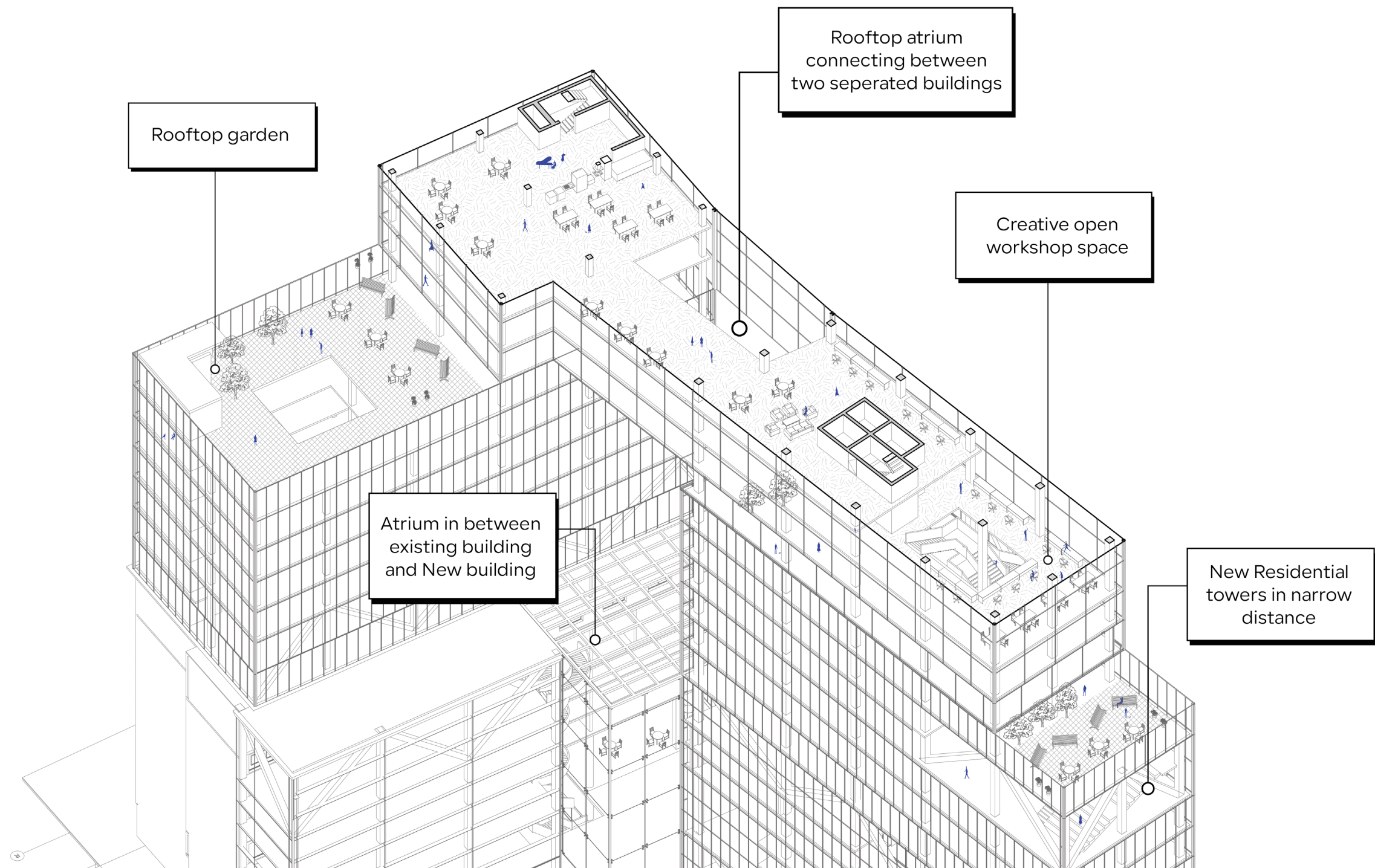
Walking-Level and High-level View

Old & New building

Guided Circulation

Multiplicity





*Multiplicity in vertical campus with diversity*

Hybrid vertical campus

Typical Users of the Vertical Campus

Student

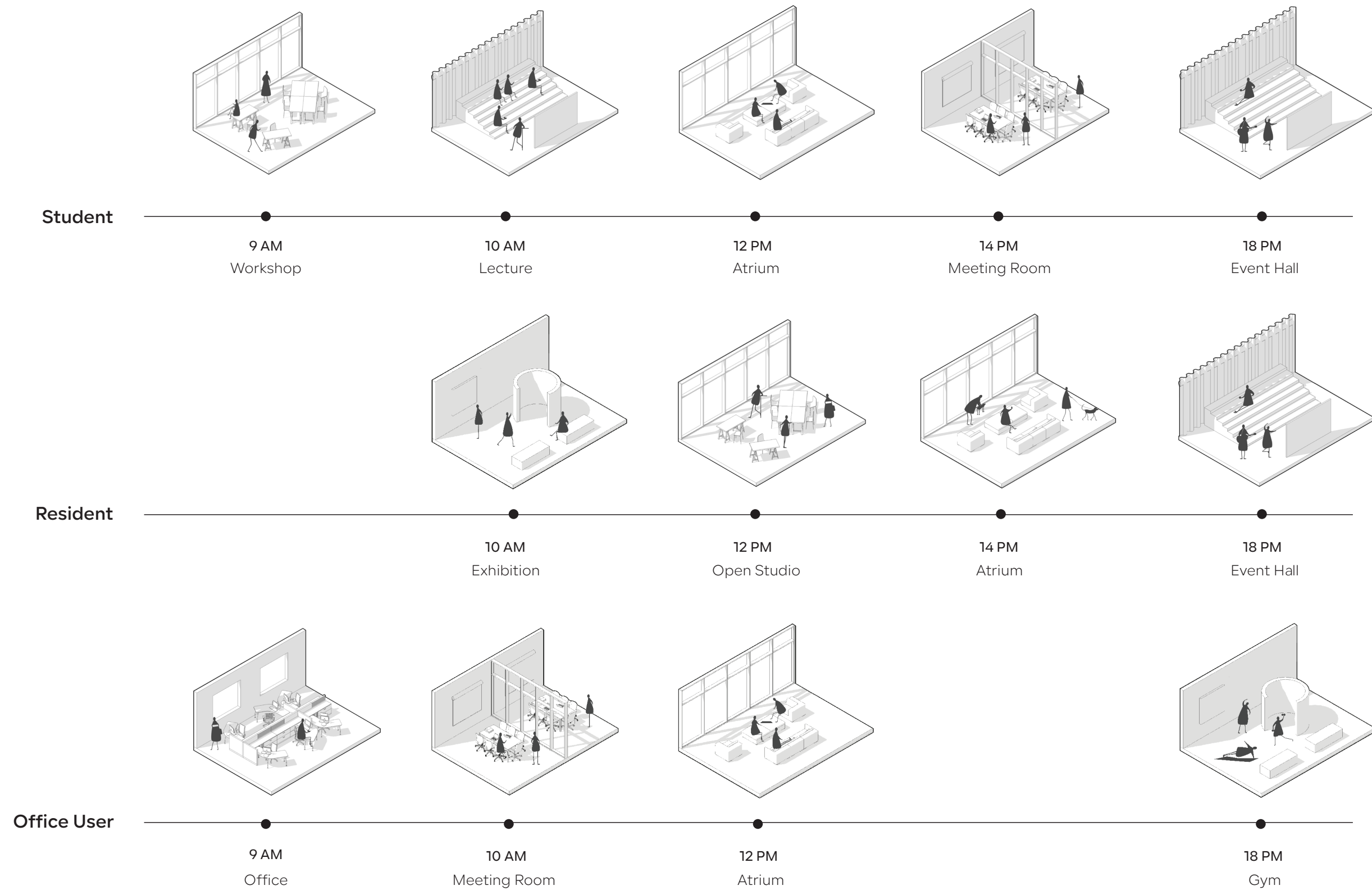


Resident



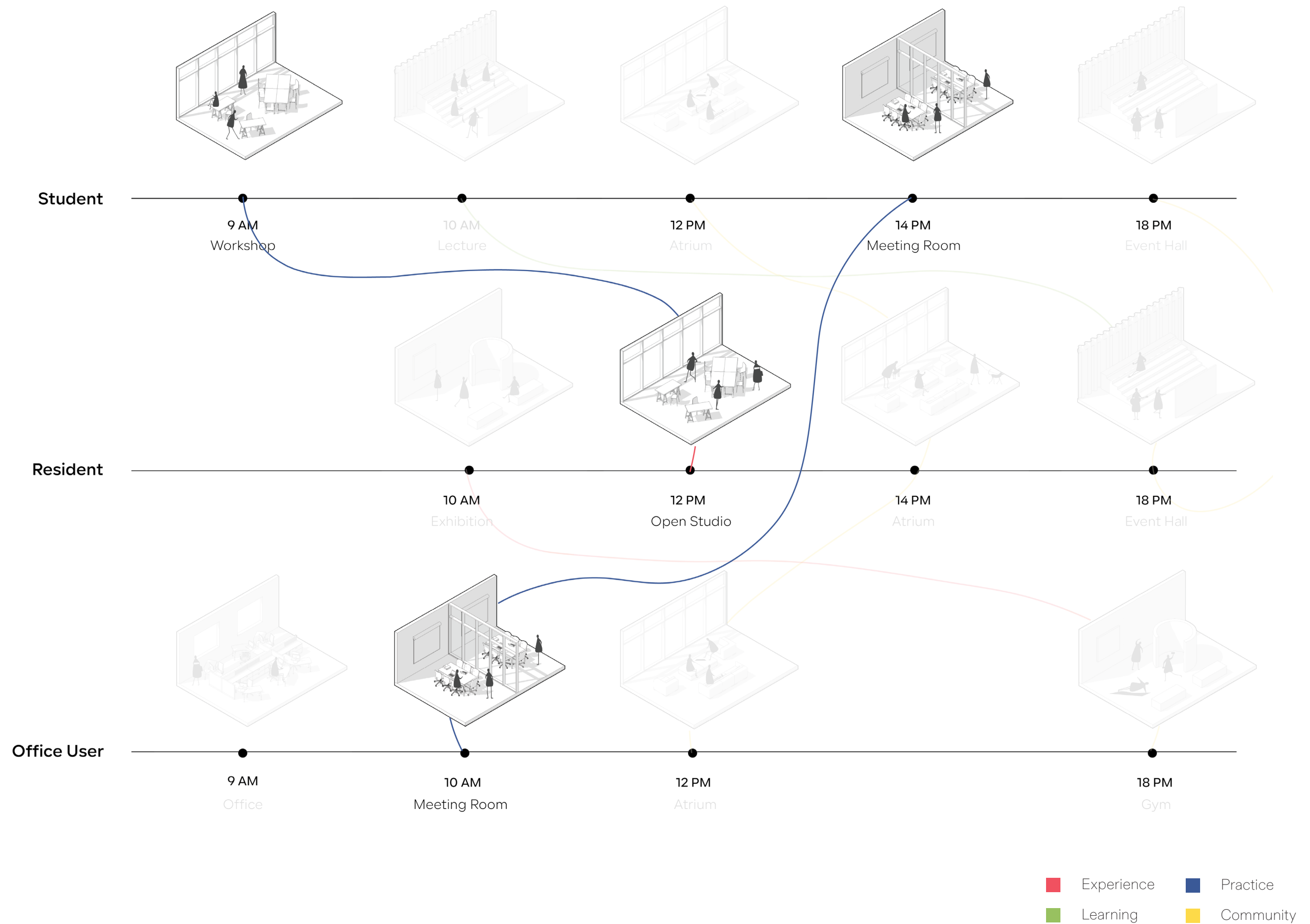
Office User



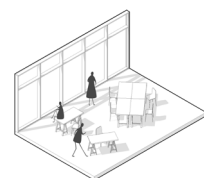
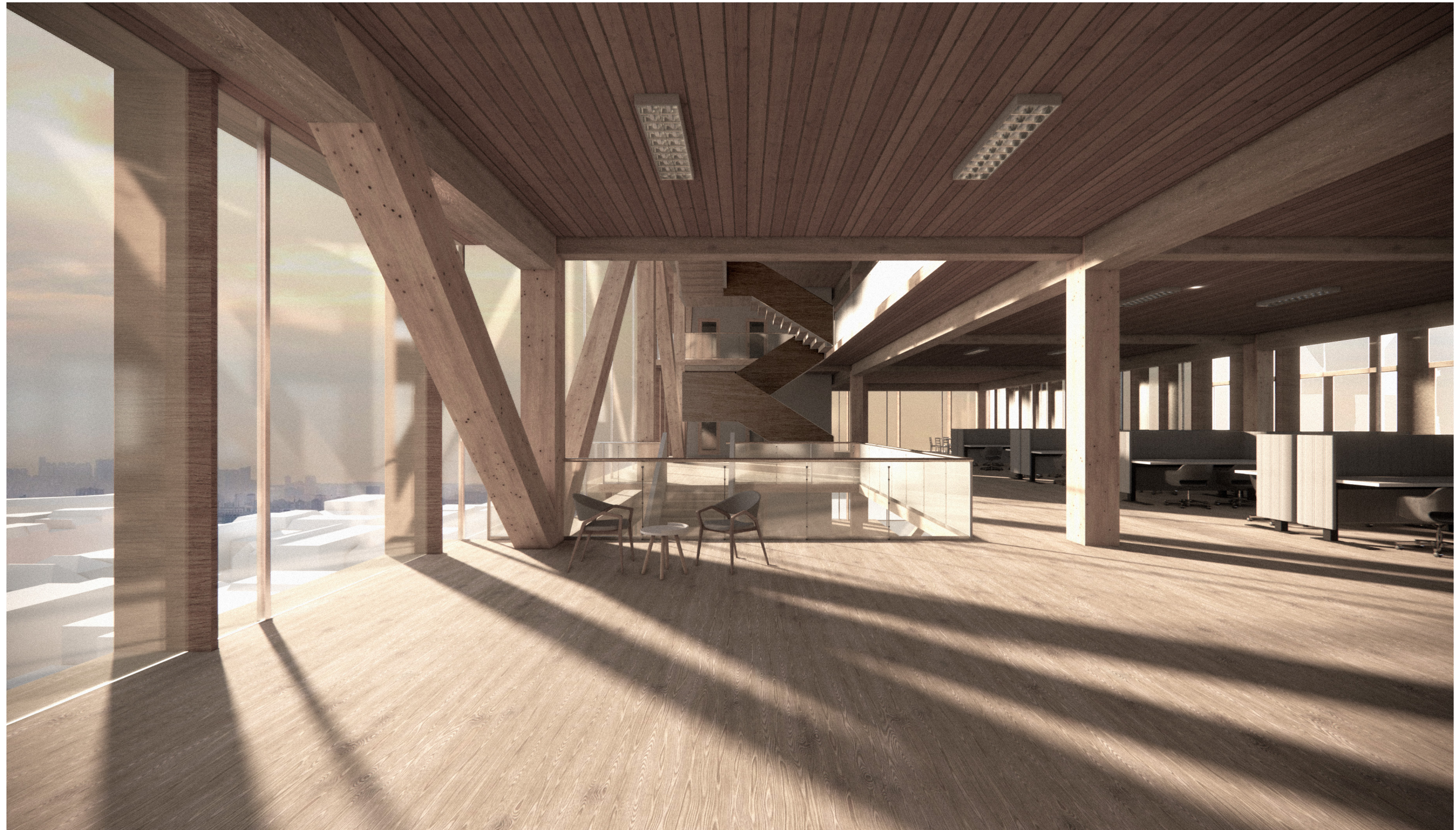


*Typical users' space use throughout the day*

Multiplicity of vertical campus

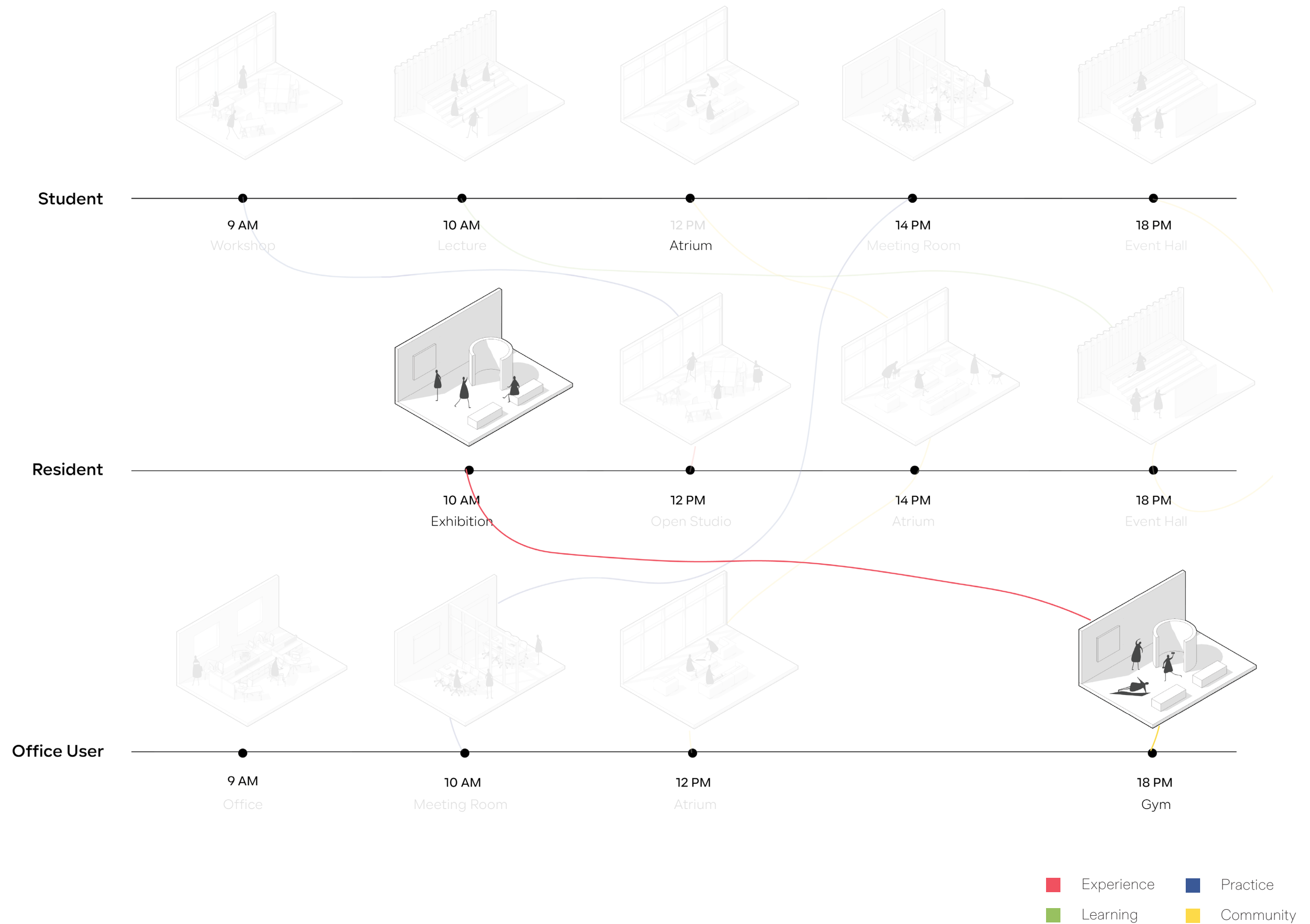




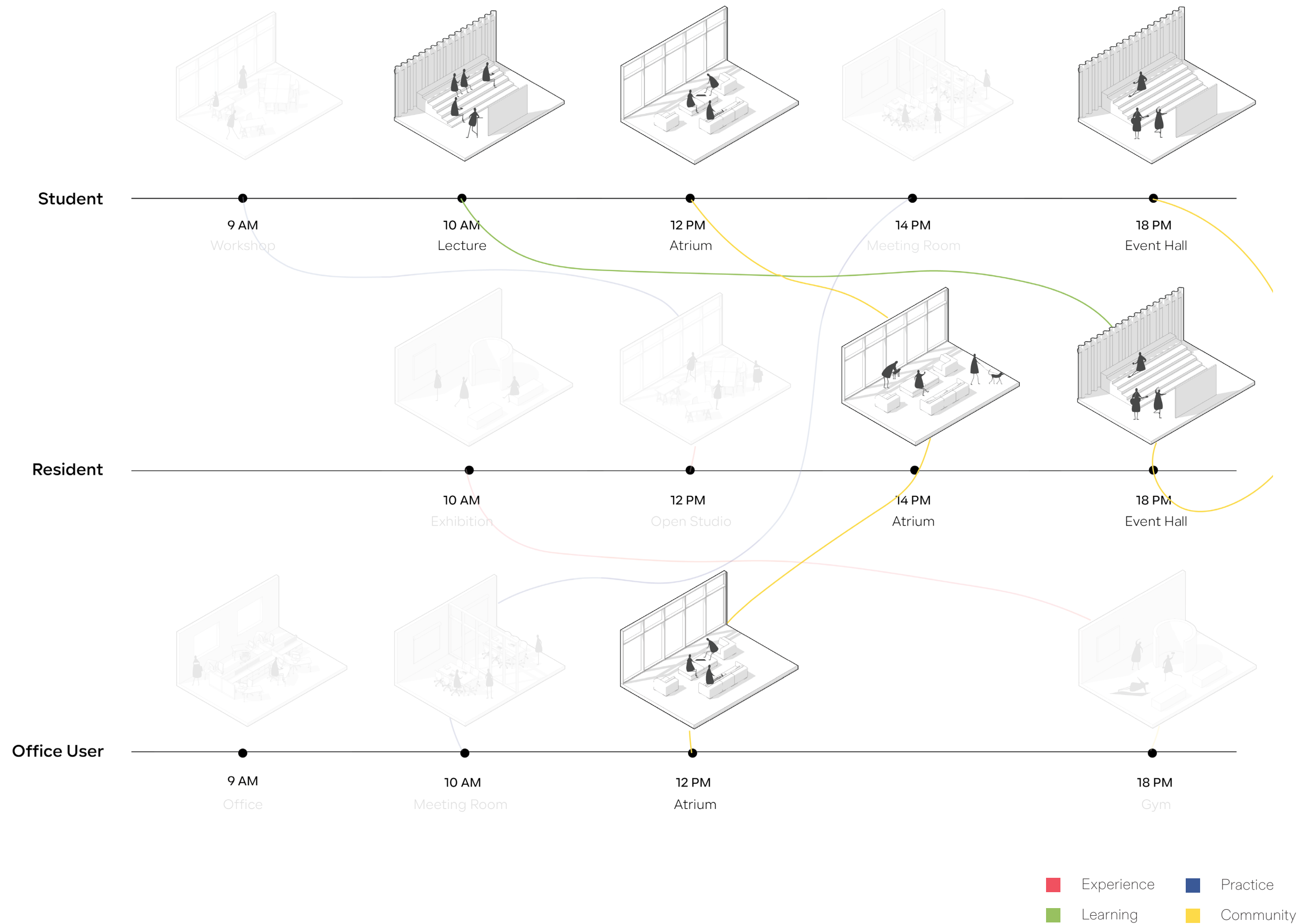


*Open Study spaces*

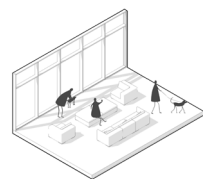
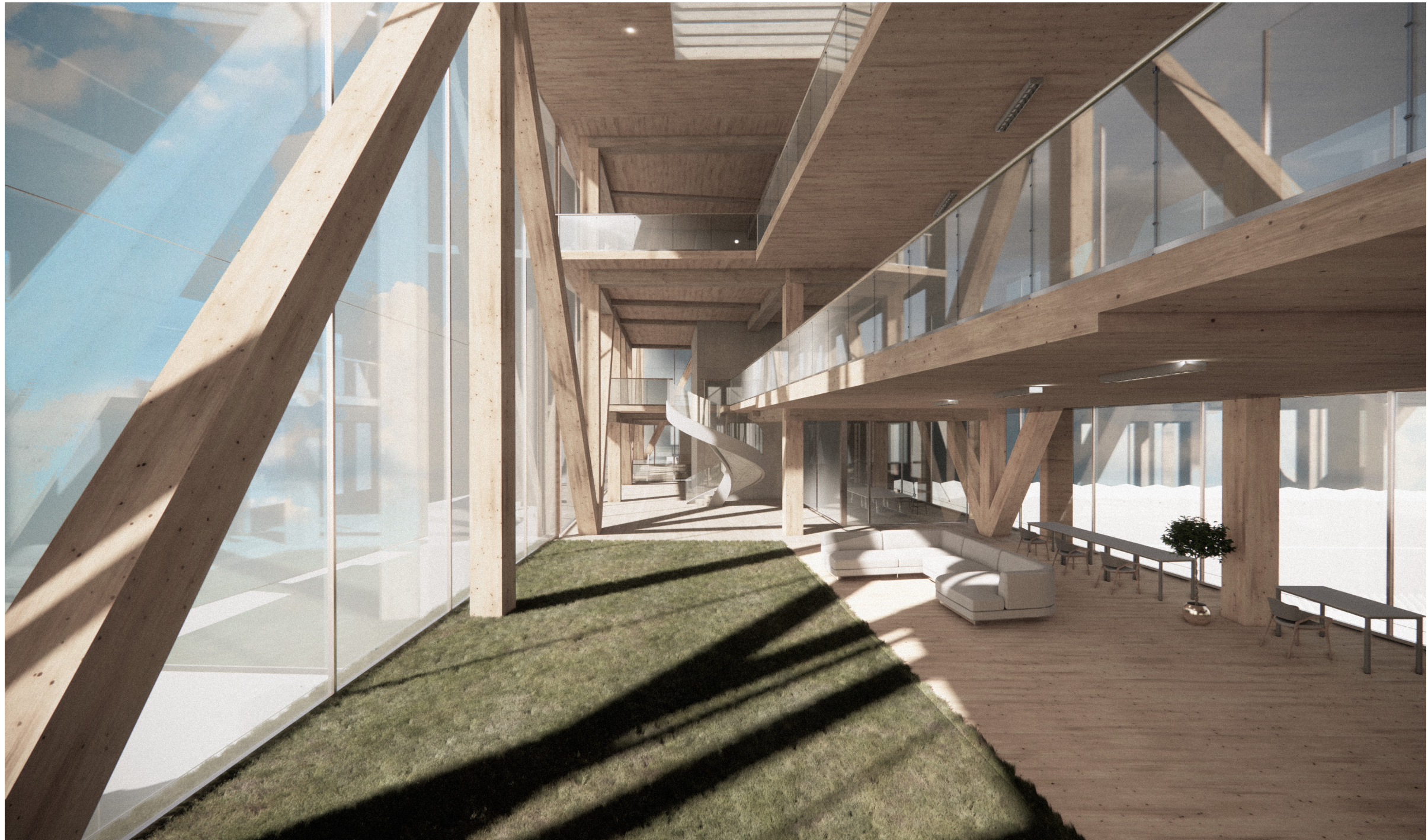












*Rooftop atrium*



ENVELOPE

pictures Thomas Bax (2023)



closed facades

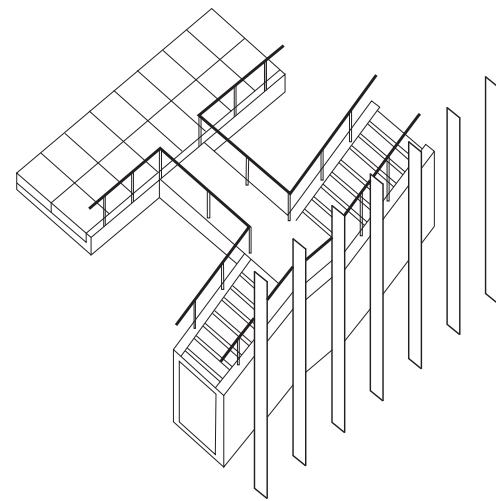
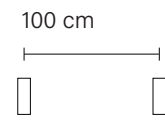


visible movement

*Program hidden behind curtains*

Envelope concept





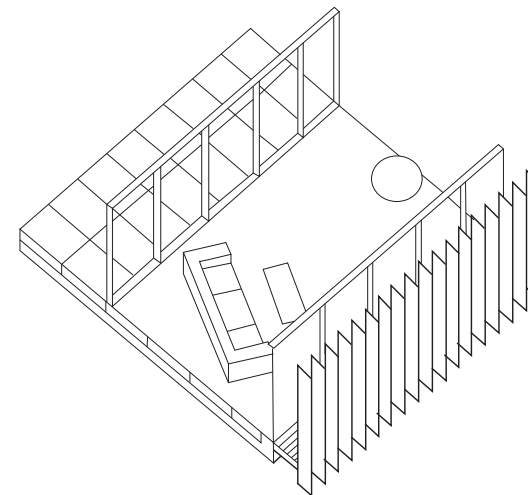
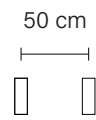
Public

Pop-up store hall

individual studio  
space

Open study space

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Semi- Public

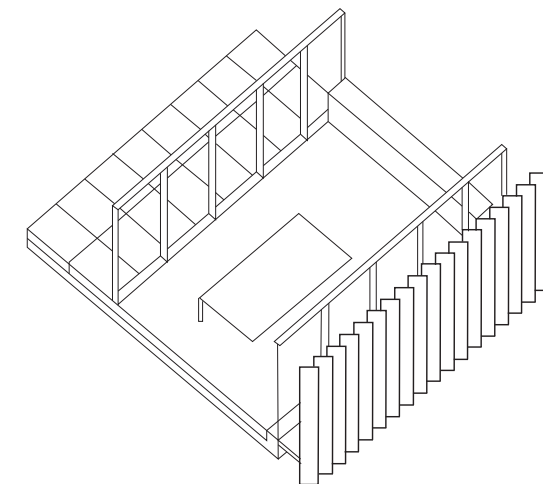
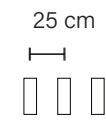
Theatre

Informal meeting  
room

Daycare center

Shared office space

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Semi- Private

Private office

Formal meeting room

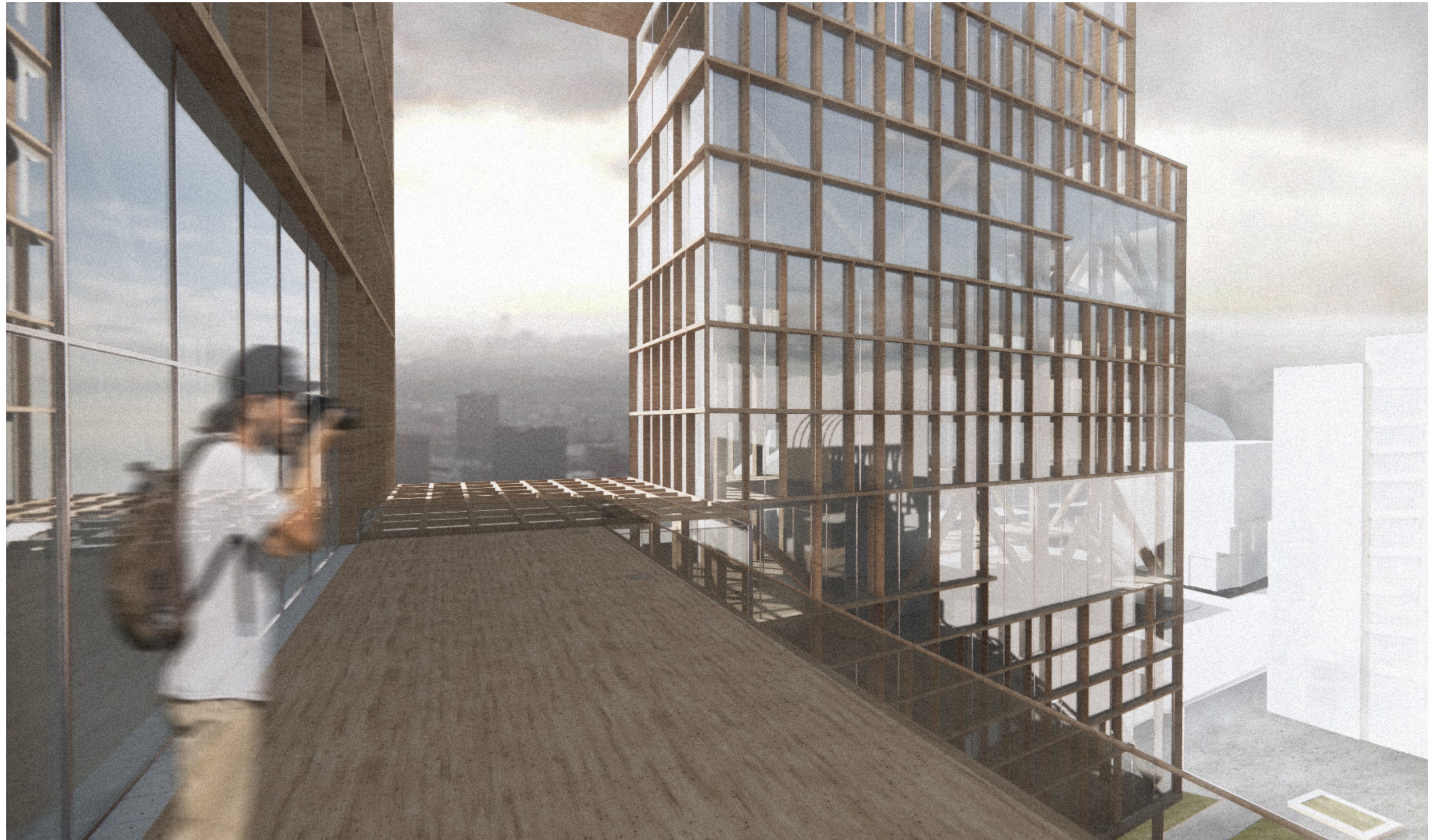
Lecture rooms

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*Guiding visual publicness with facade design*

Envelope Design



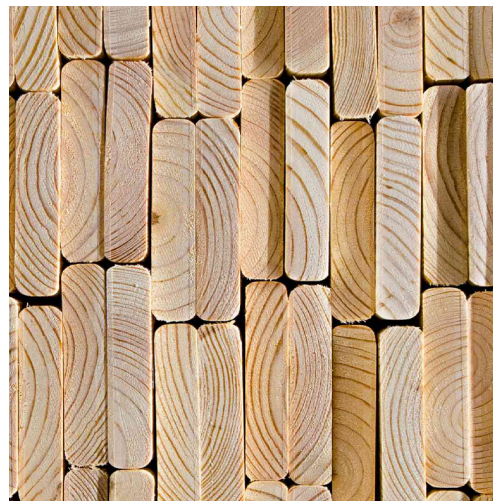






*Adapting old facade design into new building*

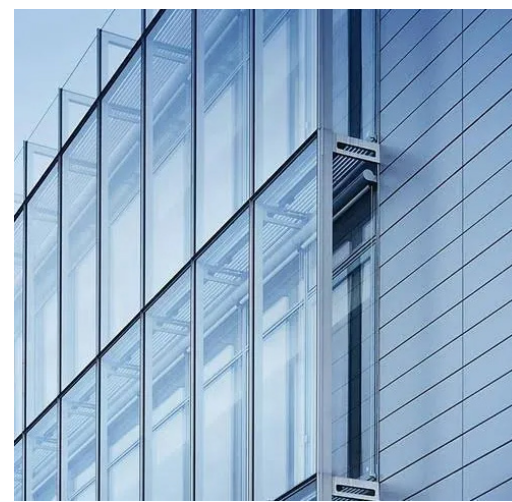
Envelope Design



Timber as new main material



Blue Tiles from  
the existing building



Glazed facade



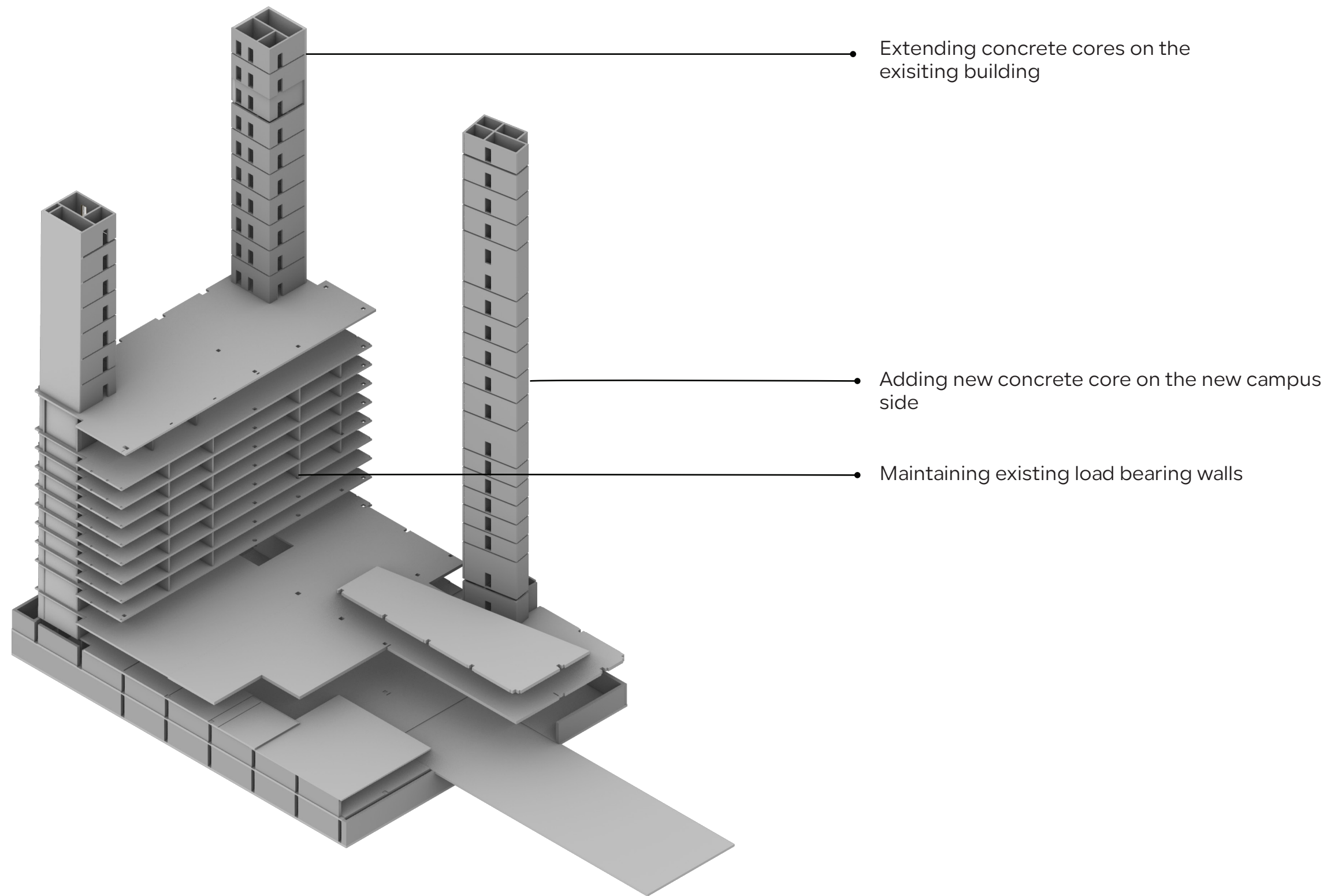
Recycled concrete facade

### ***Building material***

Envelope Design

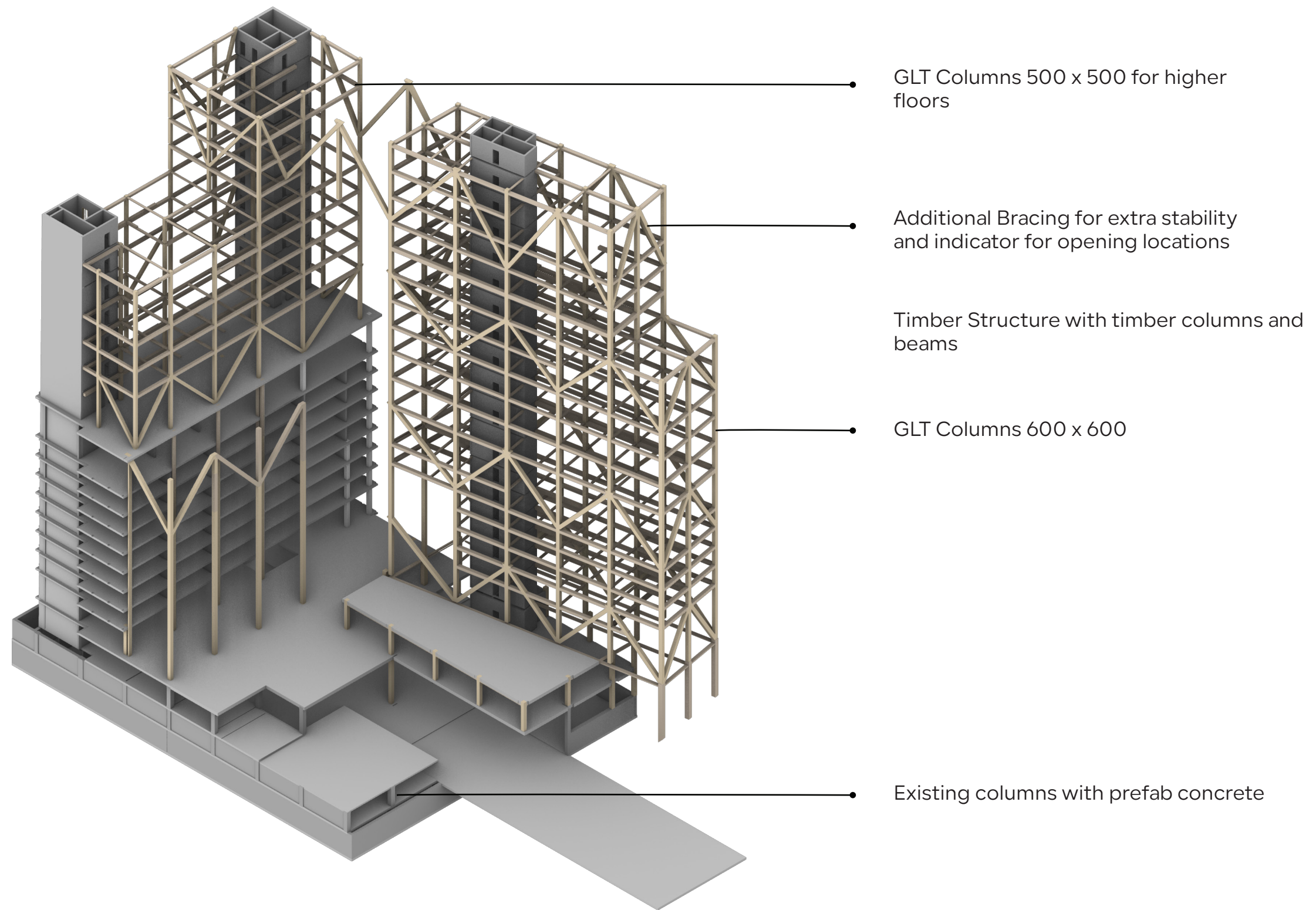


## Structure & Building Service

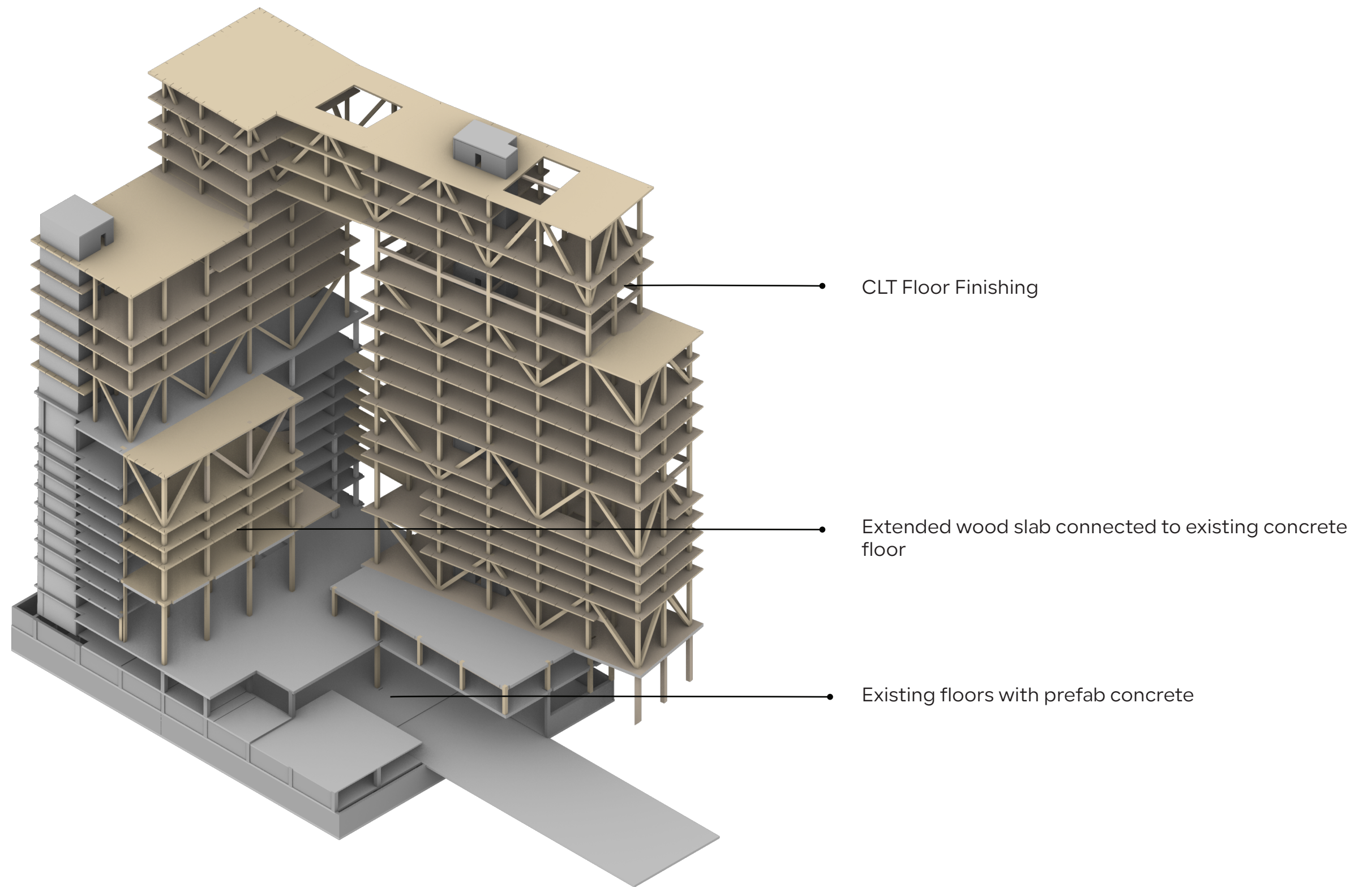


Layers of Structure



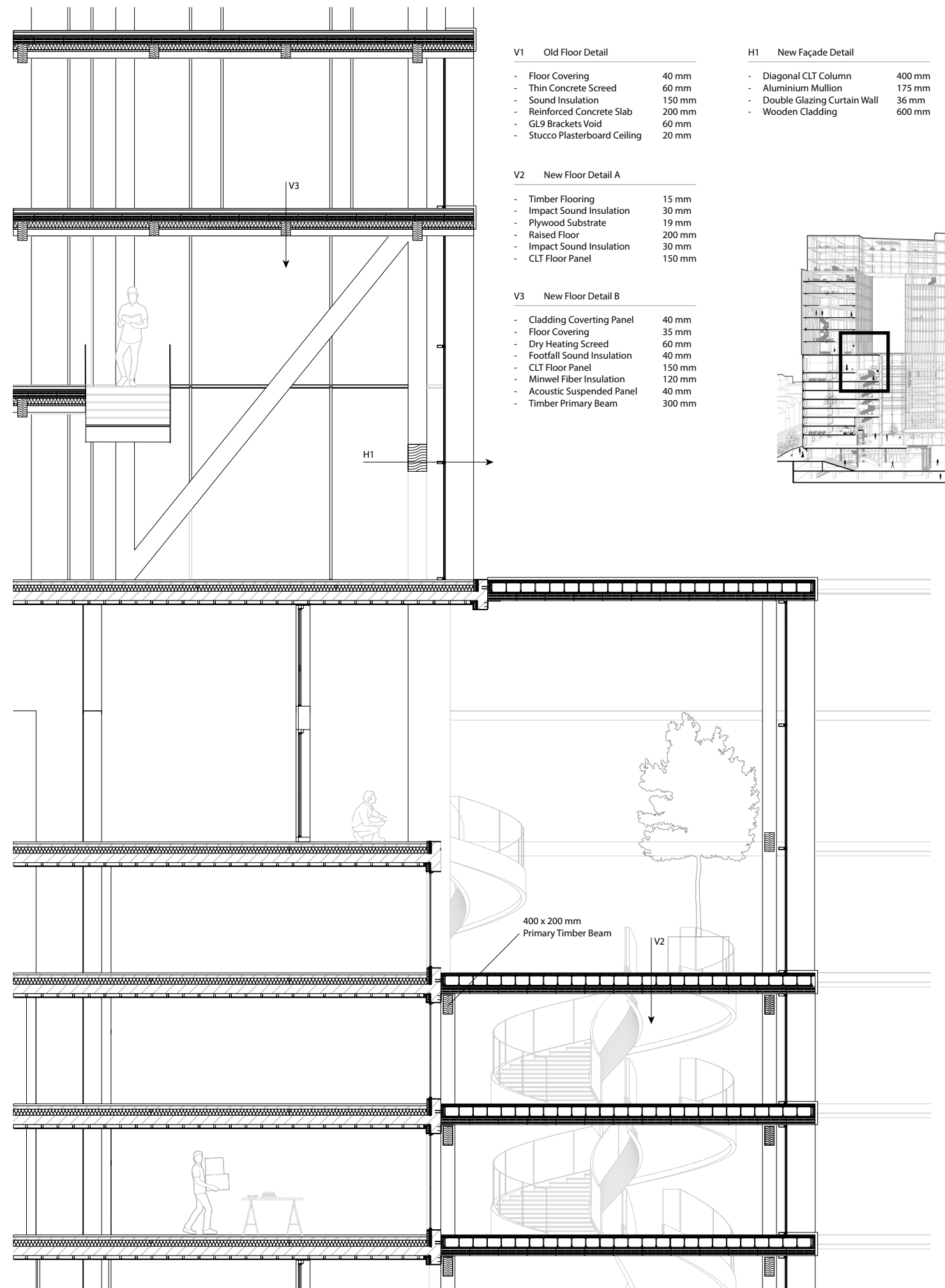


Layers of Structure

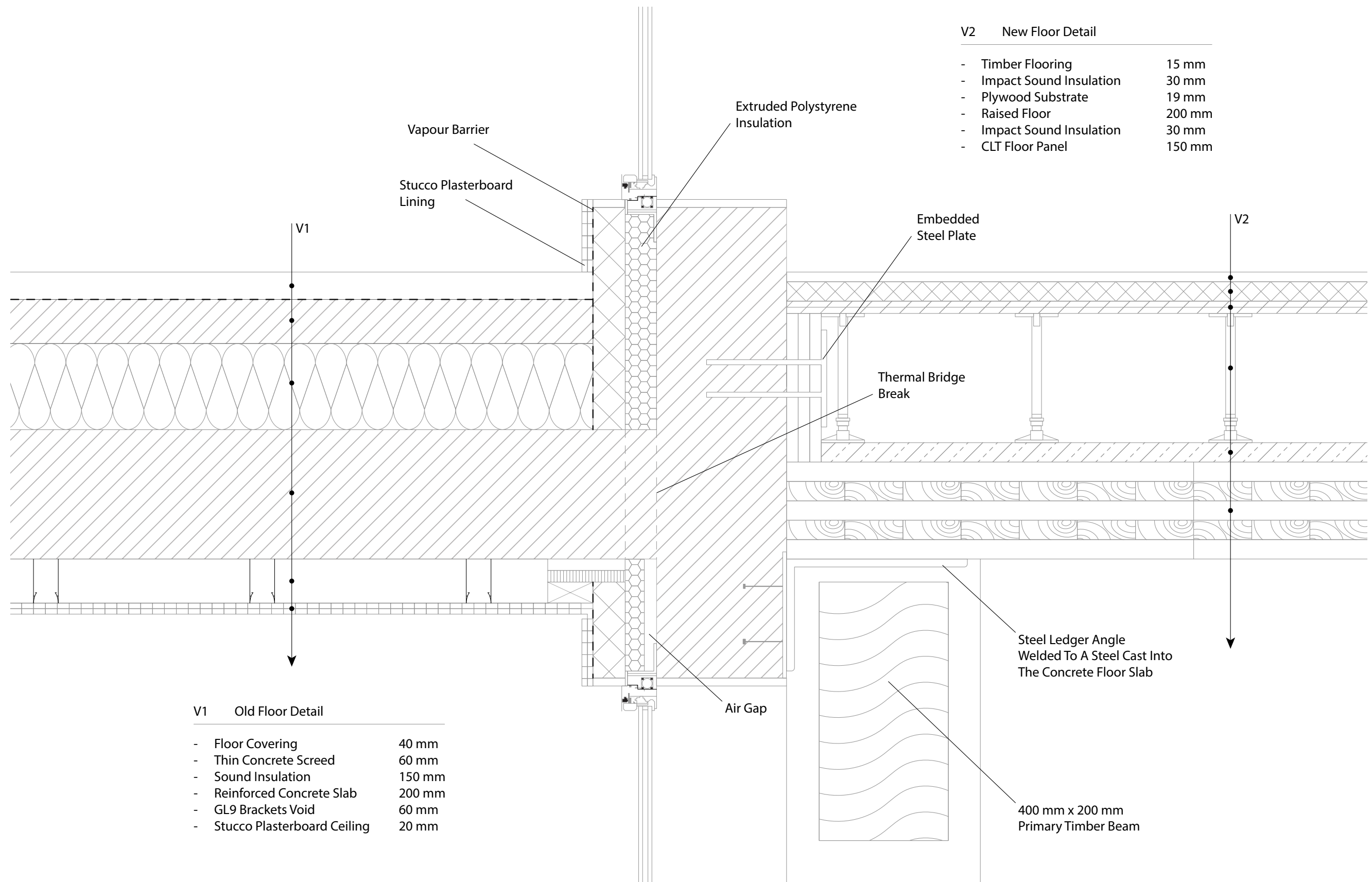


Layers of Structure



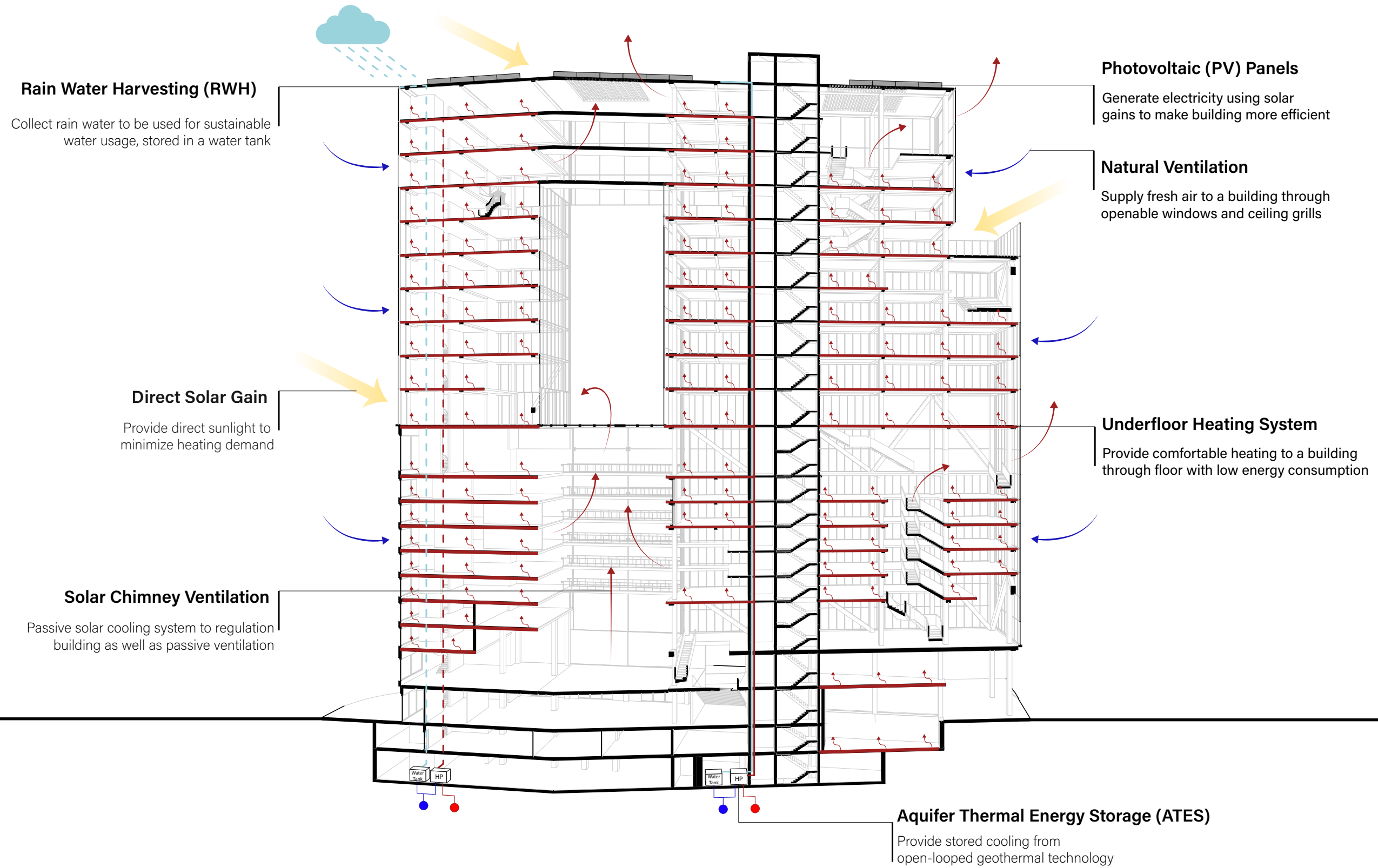


Section Detail Drawing 1:50

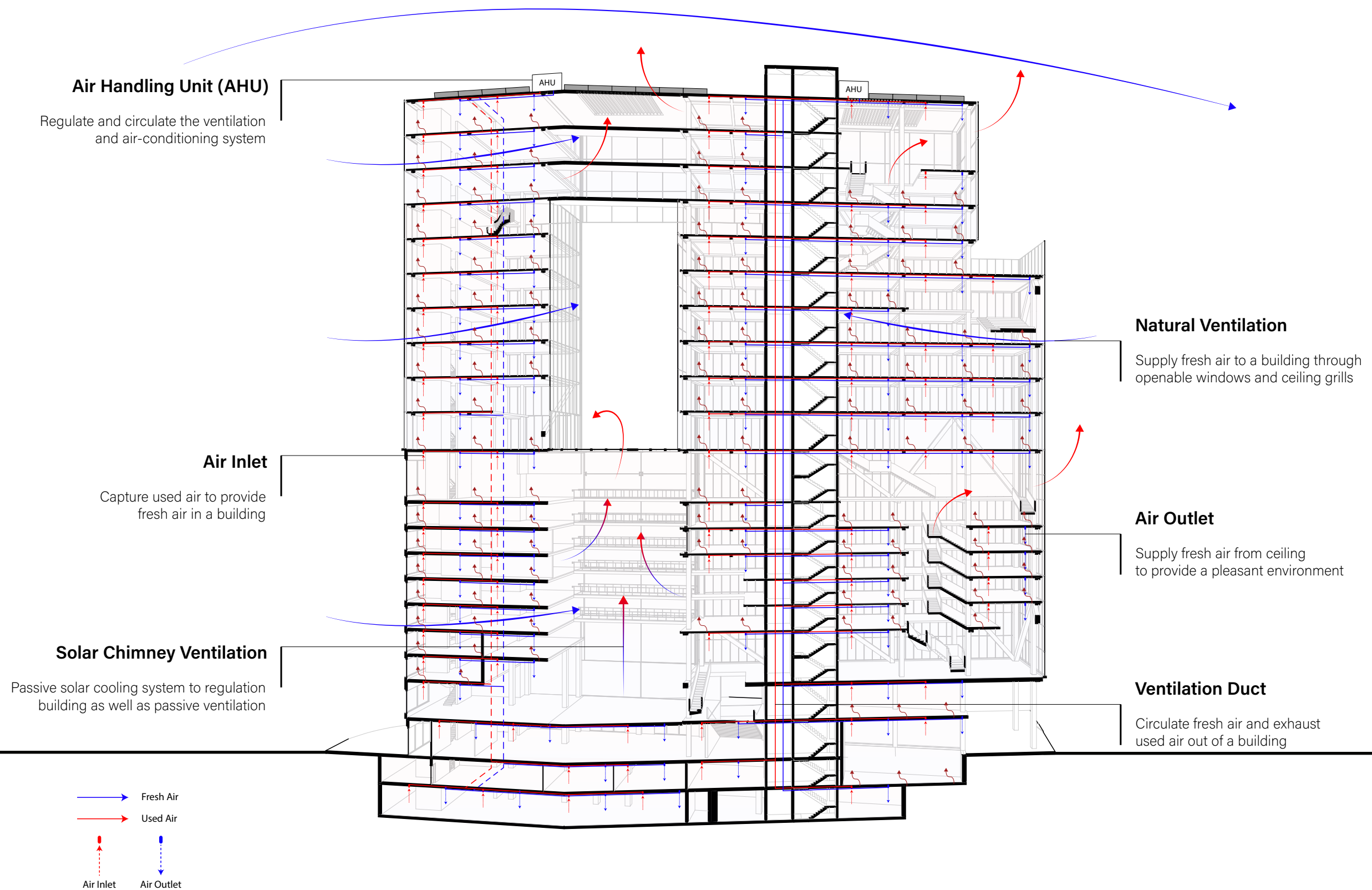


Existing Concrete wall and timber floor connection detail 1:5





*Winter Climate System*



*Ventilation System*



