

BEYOND THE CLASSROOM

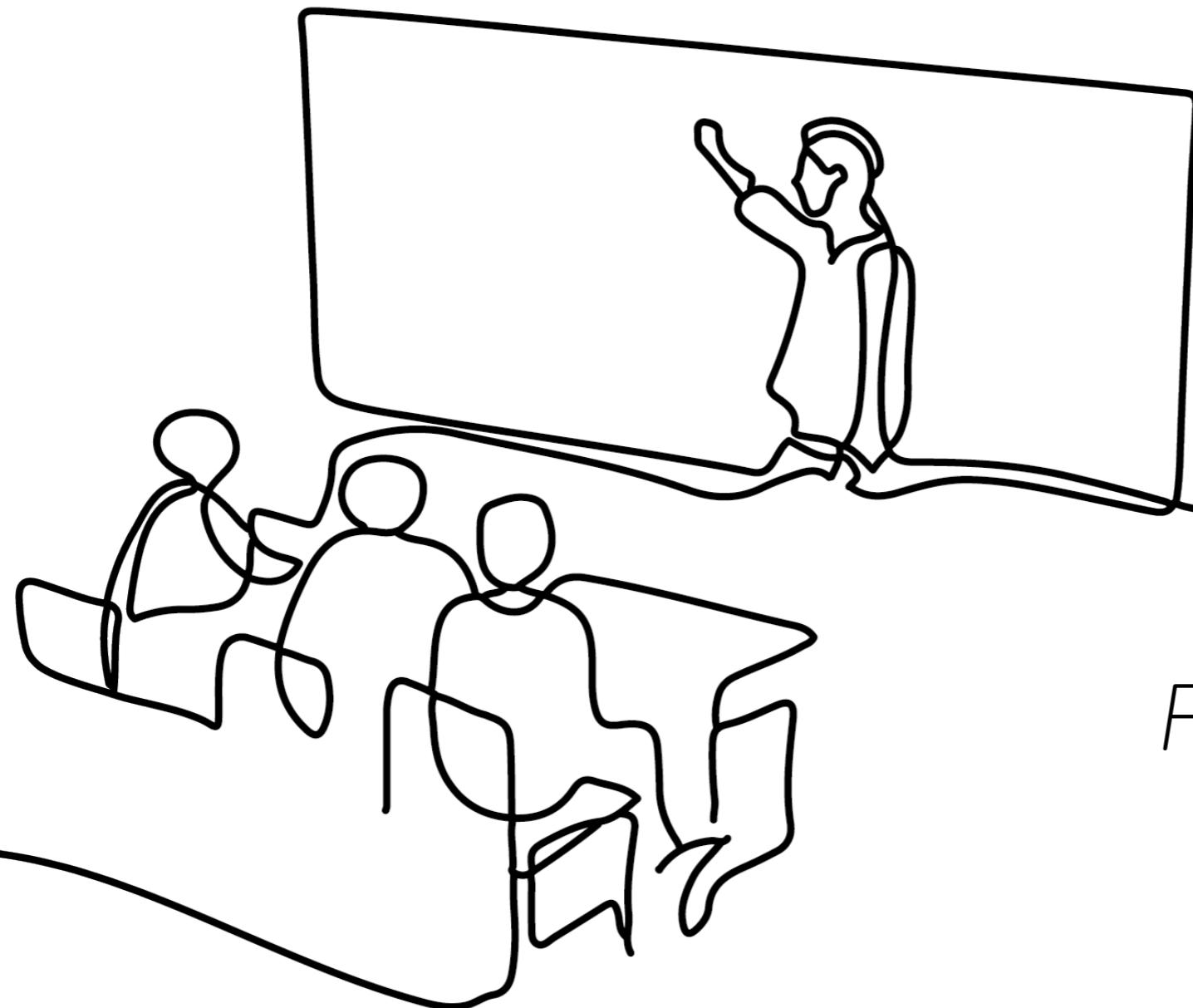
P5

Annelot Siegers

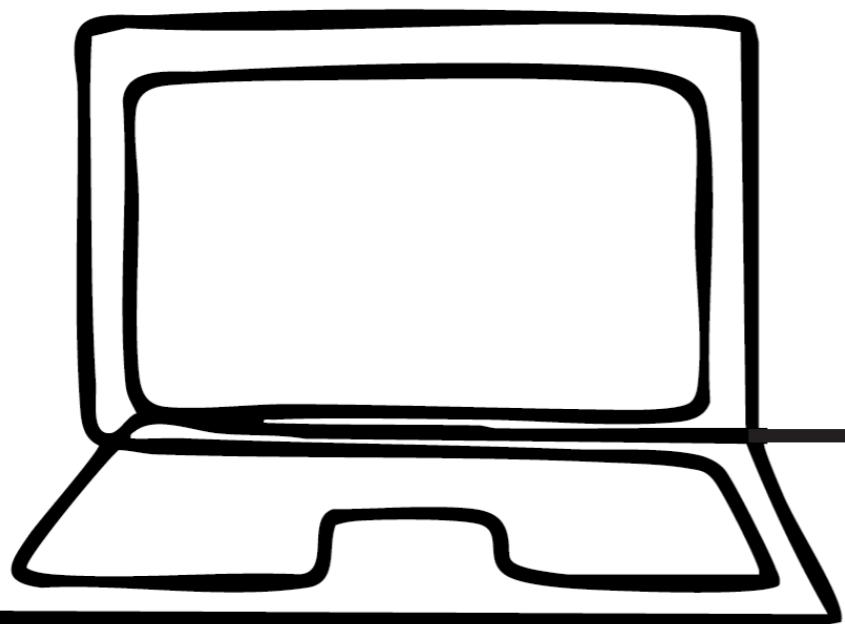
22.01.26



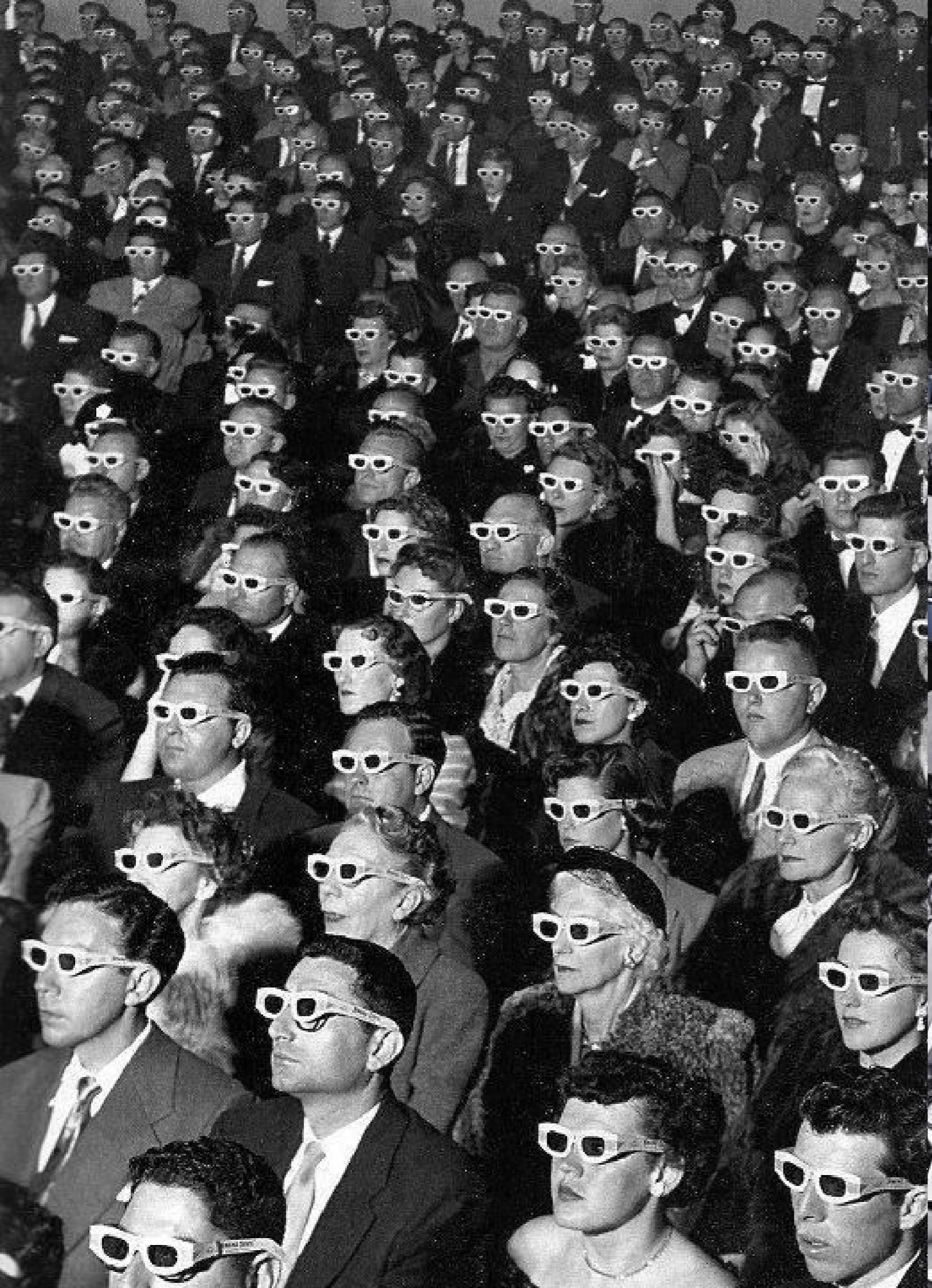
University as knowledge centers

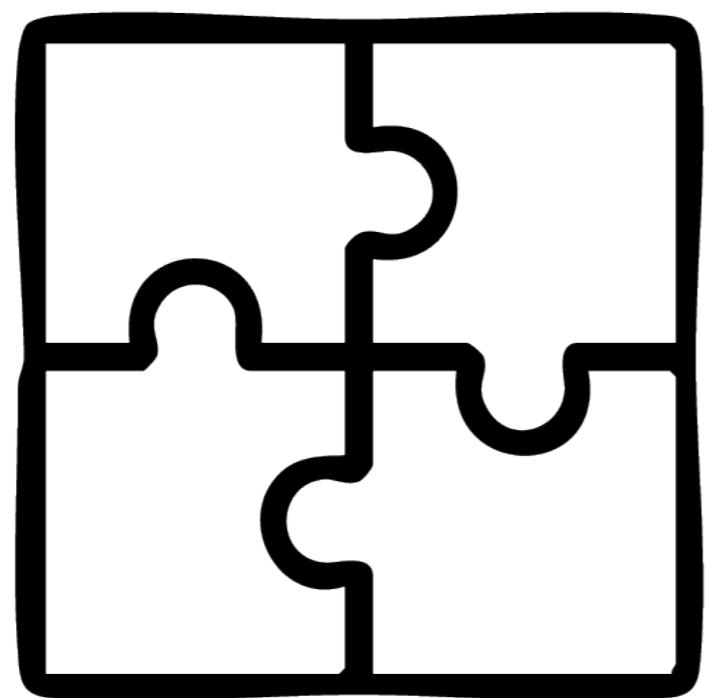


From Physical

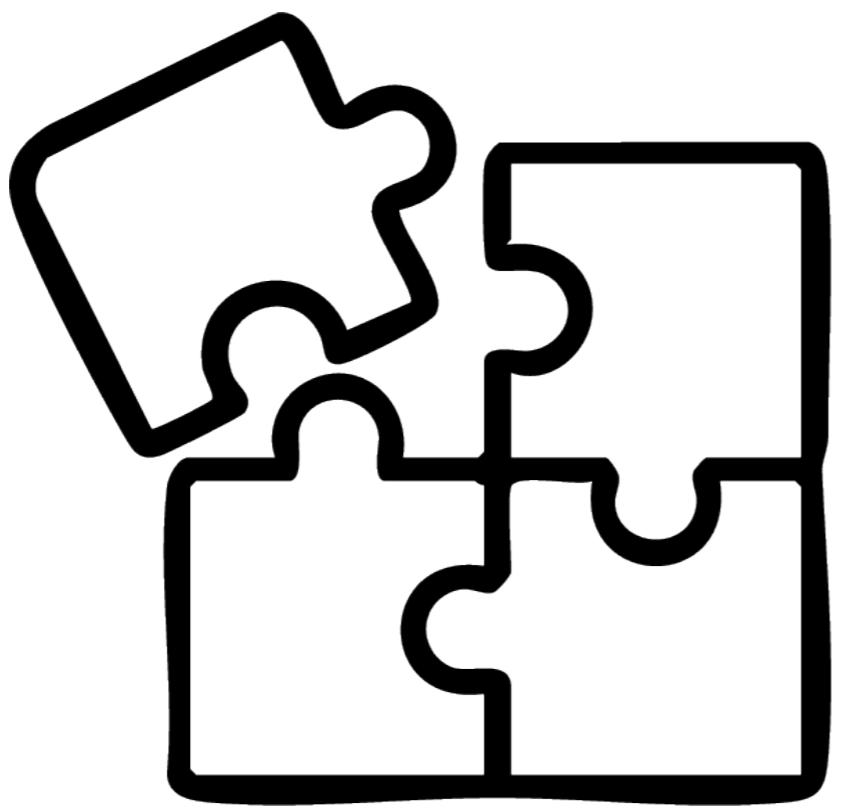


To Digital





From connected



To disconnected



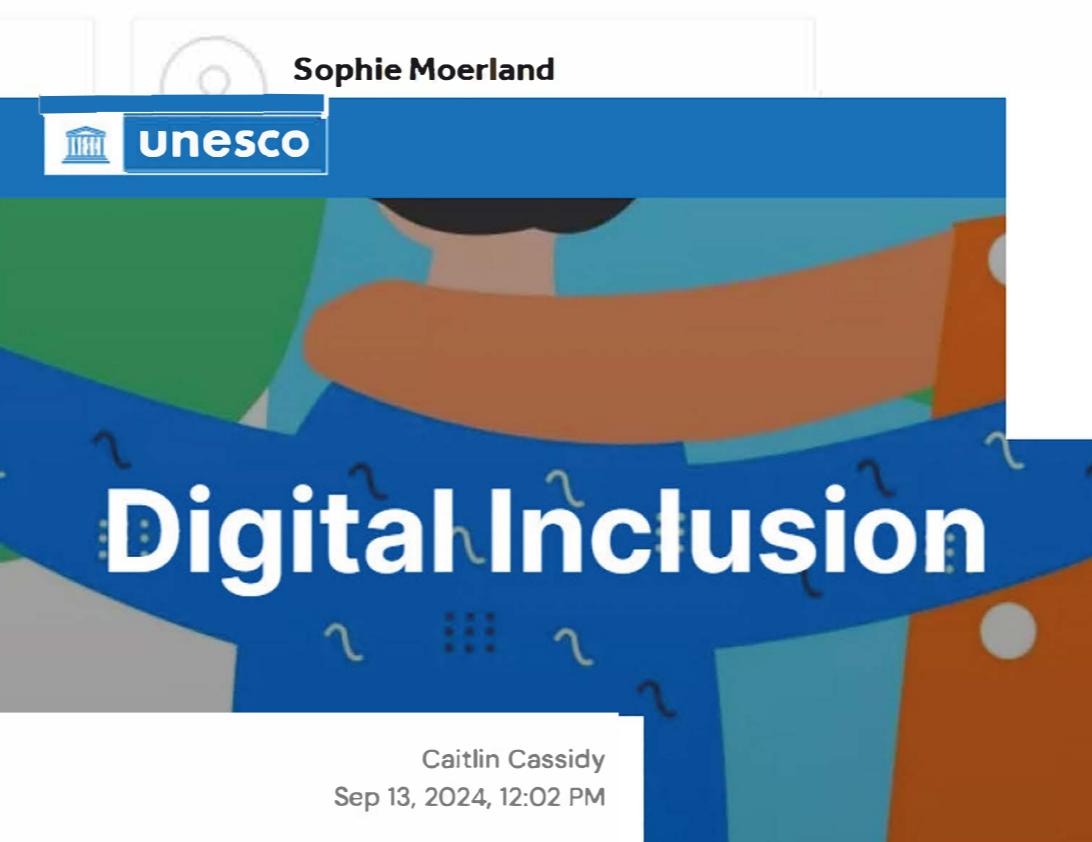
NOS Nieuws • Woensdag 4 september 2024, 08:10 •
Aangepast woensdag 4 september 2024, 09:04

Pleidooi voor AI-richtlijn op scholen: 'Risico's groot, bewustzijn laag'

 Tobias van der Valk
redacteur Binnenland

De Algemene Onderwijsbond (AOB) waarschuwt voor de mogelijkheid dat het gebruik van kunstmatige intelligentie in de scholen kan leiden tot dat het bewustzijn over AI bij docenten en leerlingen kan dalen. "Er zijn grote kennisverschillen tussen scholen en dat kan leiden tot grote risico's", aldus de AOB.

Zo is het voor leerlingen tegenwoordig mogelijk om AI te gebruiken om te leren, maar dat kan ook leiden tot een grote

 Sophie Moerland
unesco

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Zo is het voor leerlingen tegenwoordig mogelijk om AI te gebruiken om te leren, maar dat kan ook leiden tot een grote

Digital Inclusion

Caitlin Cassidy
Sep 13, 2024, 12:02 PM

NATIONAL

:campus life': first major Australian university to drop face-to-face lectures, leaving staff 'furious'

ANDREW MILLER

NTEU

THE UNIVERSITY OF ADELAIDE



the digital sphere. Worldwide, [only about half the total global female population](#) has access to the internet, compared to 8 per cent of all men. Especially in developing countries, these challenges to enab



Vice Provost's Notes

Learning without borders

Digital education's global reach can bring us together and affirm our shared humanity.

May 15, 2023 | Matthew Rascoff



Forbes

INNOVATION

Technology-Driven Education: A New Era of Learning

By [Denys Vorobyov](#), Forbes Councils Member.for [Forbes Technology Council](#), COUNCIL POST | Membership (fee-based)

Feb 01, 2024, 09:00am EST

Share Save

Denys Vorobyov, CEO at EltexSoft: Tailoring boutique software solutions for nimble business growth.



Pleidooi voor AI-richtlijn op scholen: 'Risico's groot, bewustzijn laag'

Tobias van der Valk

Sophie Moerland

De Algemene Onderwijsbond (AOB) waarschuwt voor de mogelijkheid dat het bewustzijn over AI bij scholieren en docenten kan leiden tot "kennisverschillen tussen scholieren en docenten over de mogelijkheden en risico's", aldus de AOB.

Zo is het voor leerlingen tegenwoordig

gemaakt door talenkennemerator

The transformation of education has begun

Campus life': first major Australian university -face lectures, leaving staff 'furious'

ie digital sphere. Worldwide, one in two women and half the total global female population are online. This is 8 per cent of all men. Especially in developing countries, where women are less likely to have access to the Internet and less likely to be literate. This is a challenge that must be addressed to enable women to benefit from the opportunities that the Internet offers.

Technology-Driven Education: A New Era of Learning



Artificial Intelligence

Smart Learning

Hybrid Learning

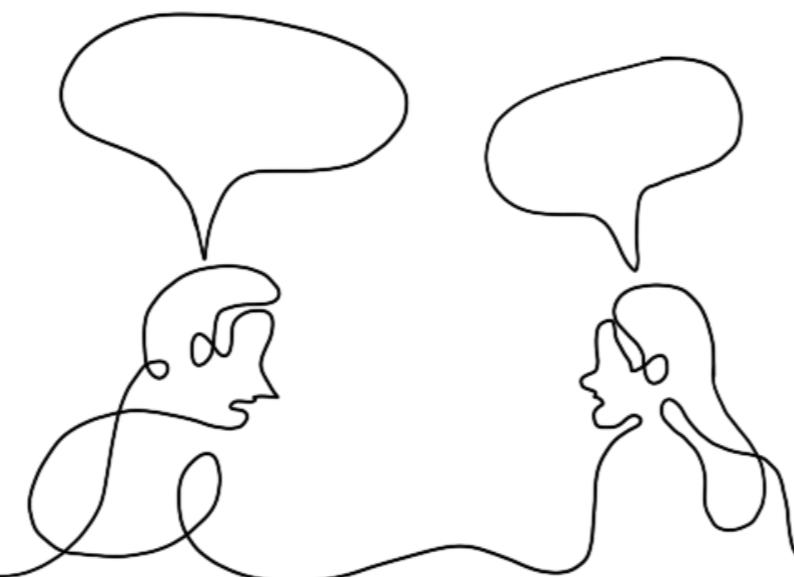
Online

Different Realities

Customized Learning

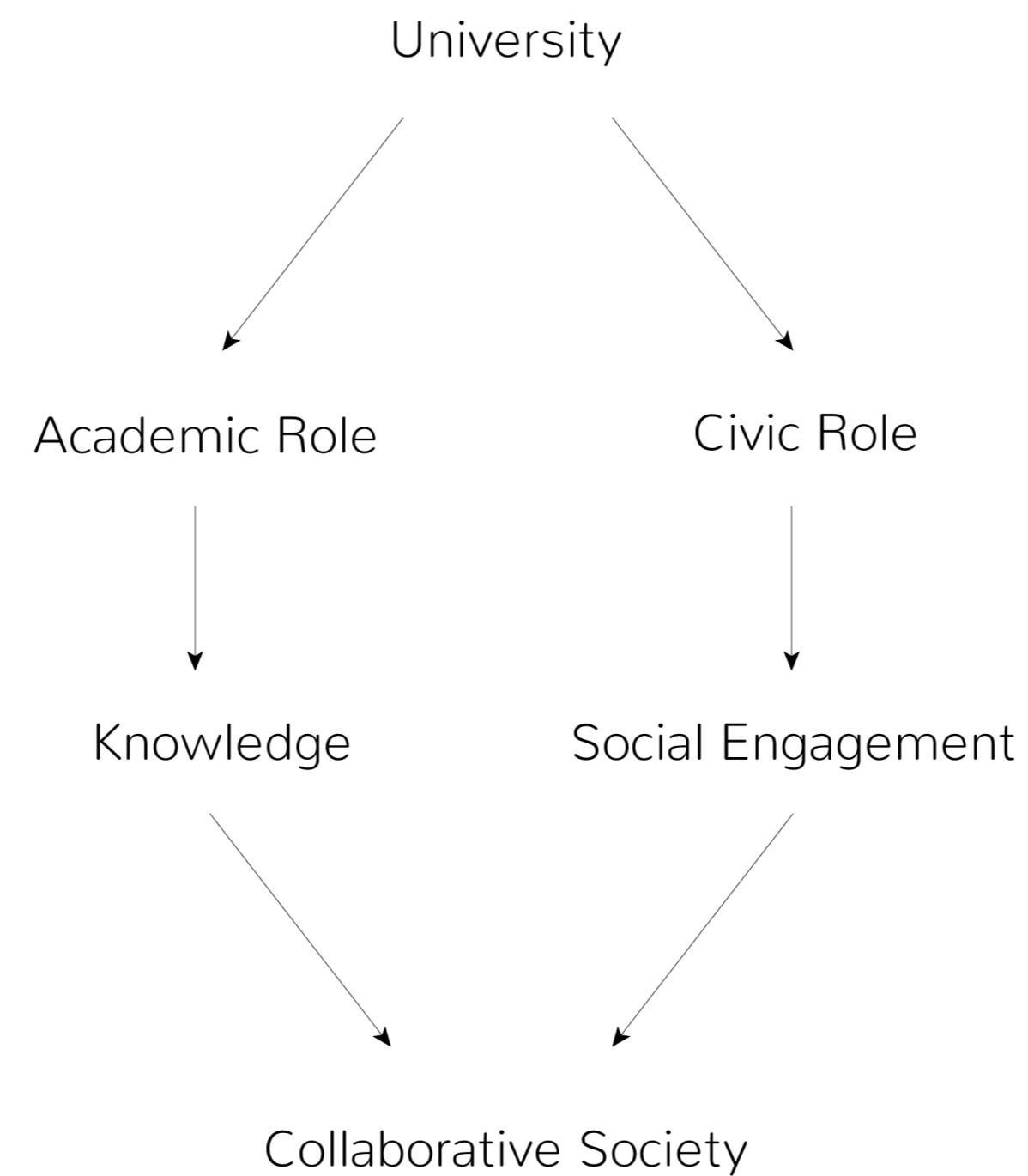
If the exchange of knowledge can happen anywhere at any time, what role do university spaces still play?

What if universities are social spaces,
more than learning spaces?

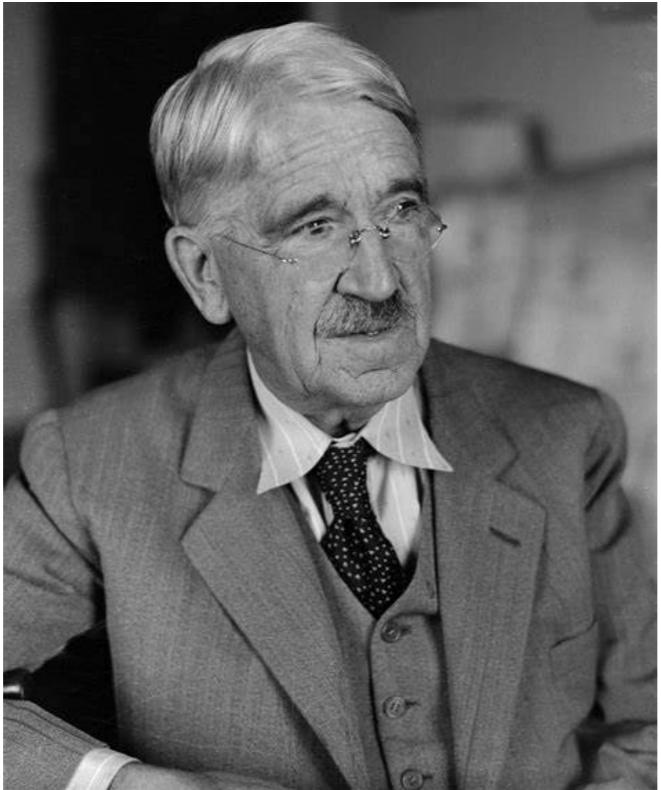




Student Protests Milan 1968 (Kurz & Tolomelli, 2008)



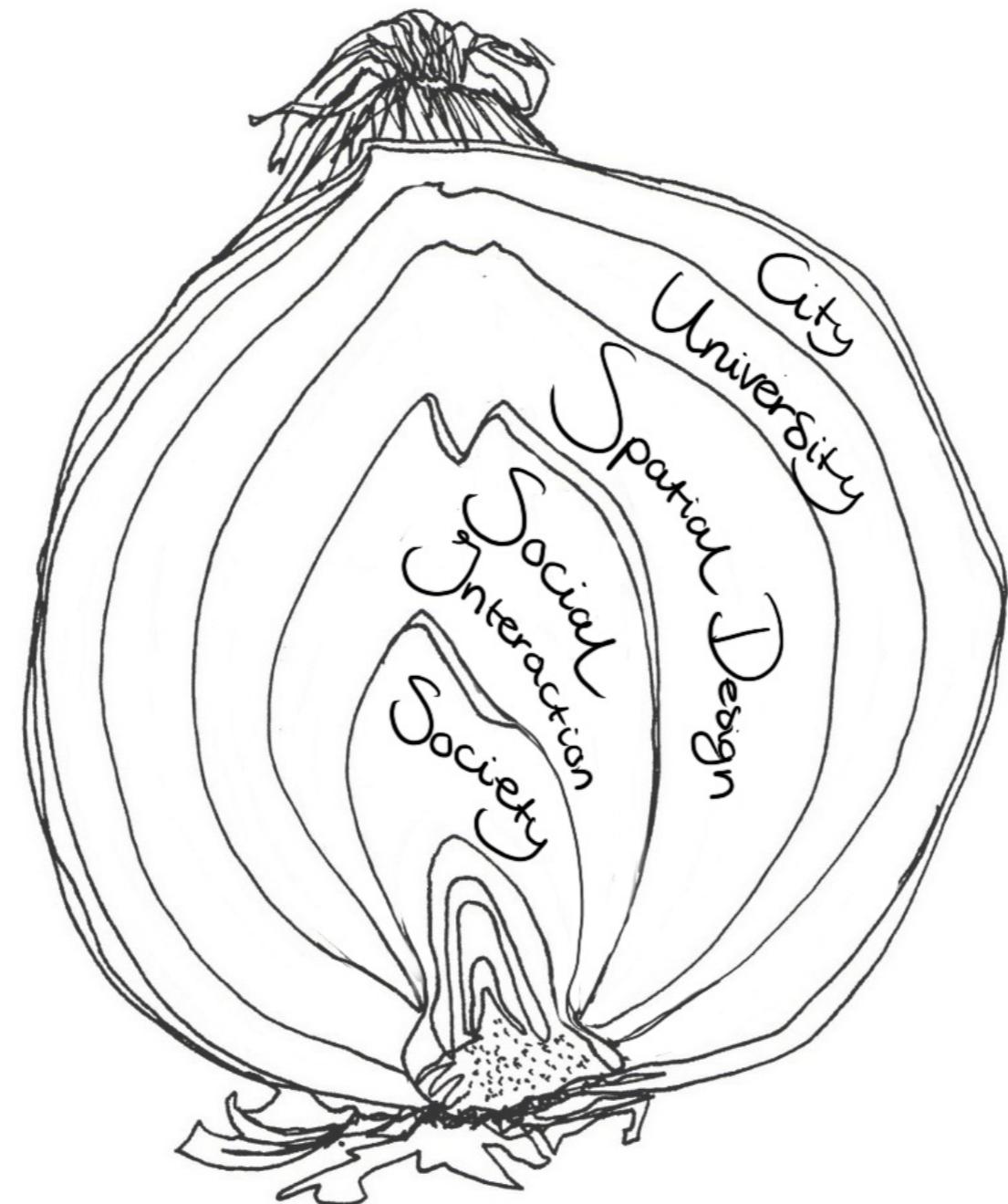
Social interaction → Democratization → **Social engagement** → Collaborative society



Rather than focusing on the political meaning, Democratization refers to the process where students develop social skills and actively participate in society through social interaction.

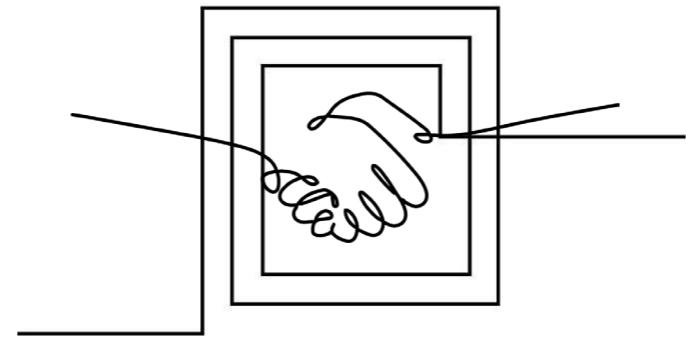
‘Educating people about the concept of ‘living together’
(John Dewey, 1916)

Through...
Interactions with other students
Shared use of space
Encounters with differences
Ongoing participation in dialogue
Debate

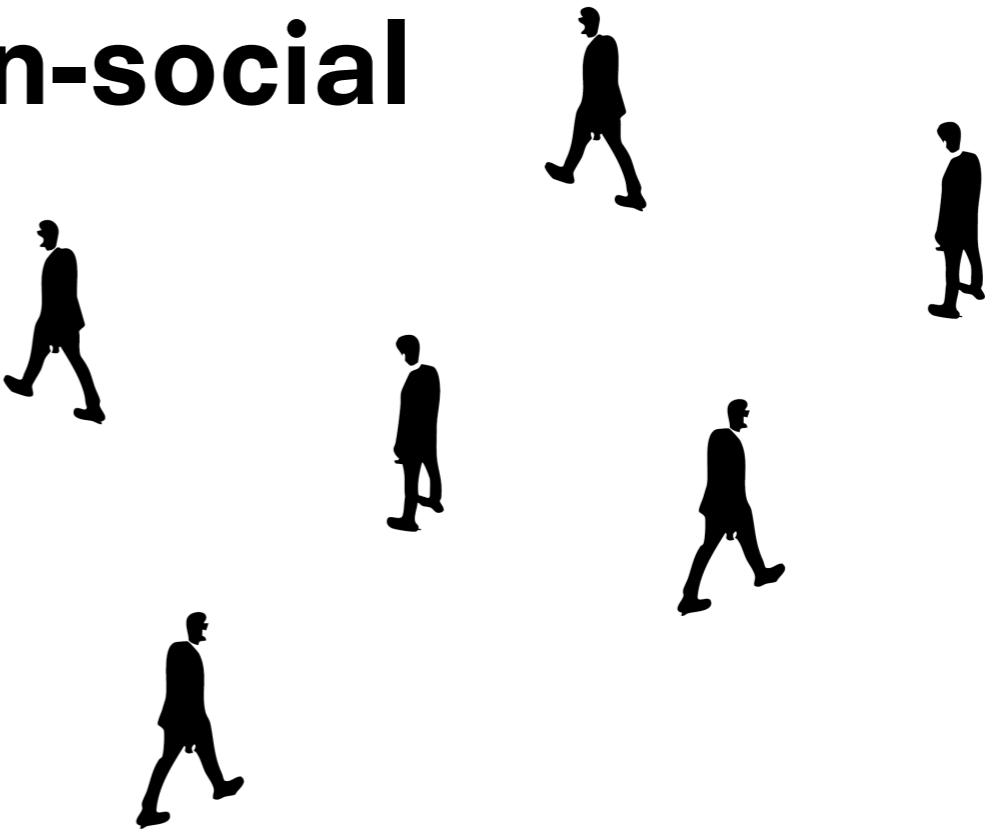


Civic Role

Social engagement

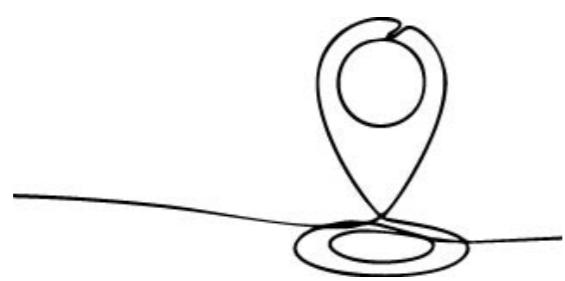


Challenging the non-social

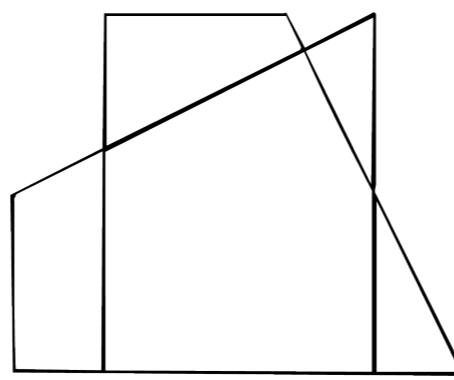


An aerial photograph of Milan, Italy, showing the city's dense urban sprawl with numerous buildings and a large green park area. In the foreground, a modern architectural complex is visible, featuring several large, white, curved structures with solar panels on their roofs, resembling a stylized 'S' or a series of interconnected rings. The text is overlaid on the upper right portion of the image.

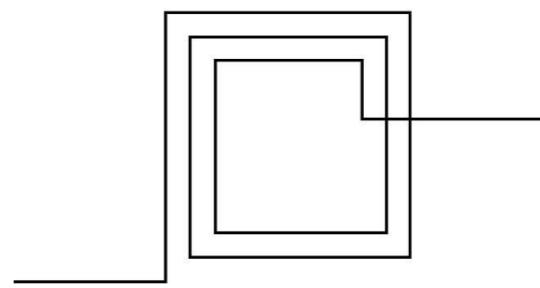
Design a **New Building**
for the **Bocconi University**
in **Milan**



Milan



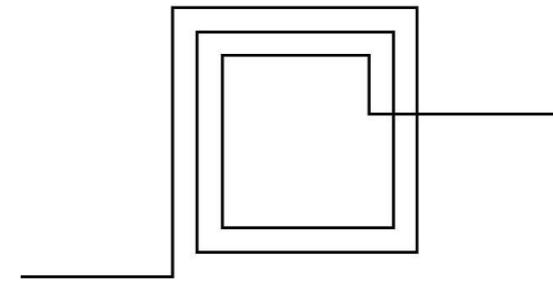
University



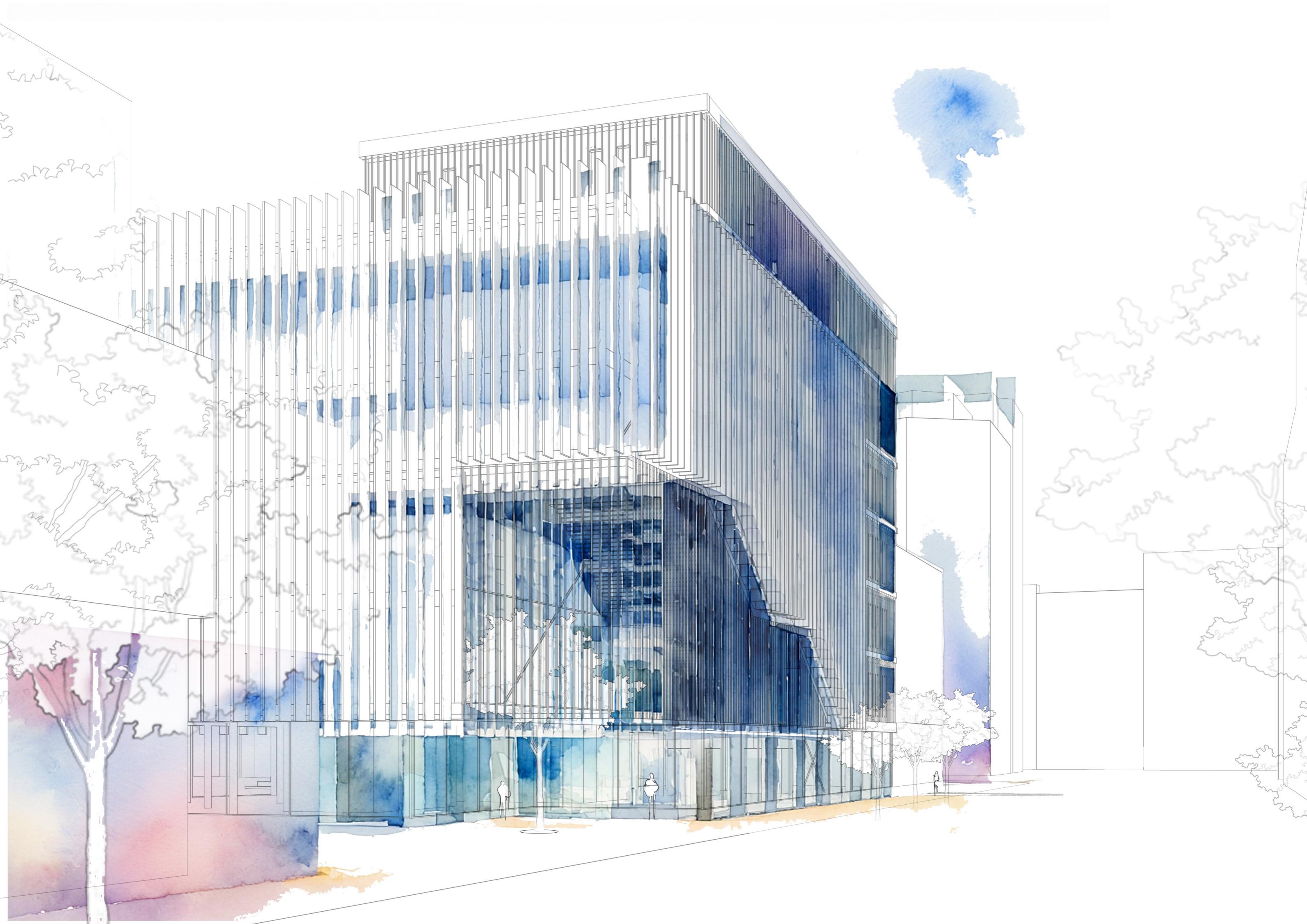
Civic

STUDIO LENS

'Civic' describes the connection made between the different scales of society. A civic building forms a bridge between the larger scale of urban structures and the smaller scale of daily life.



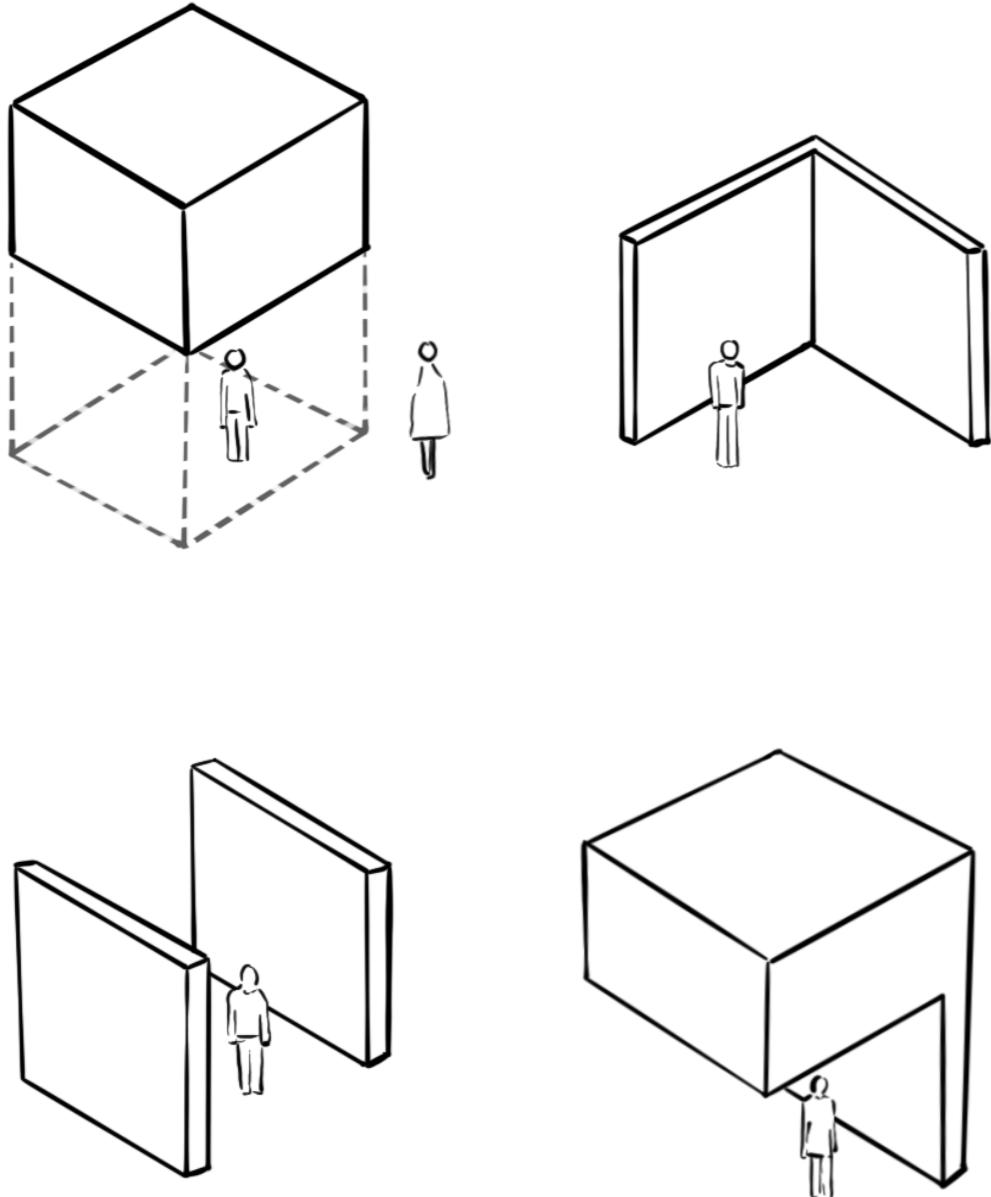
Civic



RESEARCH QUESTION

'How can university spaces adapt to the digital transformation of education while sustaining their civic role in fostering social engagement?'

RESEARCH



University without walls

The **European university institute** describes their vision for European universities in 2030 as a 'university without walls'. With this they mean universities that are more **open and engaged in society** while sustaining their role as knowledge center.

Universities have to build on their **capacity to evolve and become the drivers of societal change**. They will provide an open, transformative space for common knowledge production through research, education, innovation and culture (EUA, 2021)

Future university spaces

To imagine the classroom of the future, we must first **change our own beliefs about learning spaces**, moving away from formal learning and embracing the informal. And from seeing learning as listening, reading, and taking notes to seeing it as **situated actions, collaboration, coaching, and other forms of interaction** (Philip Long, 2005).

BENCHMARKERS



Architecture Faculty - Delft
2008
Braaksma & Roos Architecten
35.400 m² Total floor pace



Väre Building - Espoo
2018
Verstas Architects
45.400 m² Total floor pace



Law Faculty - Paris
2019
Chartier Dalix Architectes
9710 m² Total floor pace



Haus der Digitalisierung - Tulln
2022
Gallister+Partner, Kronaus Mitterer
4991 m² Total floor pace

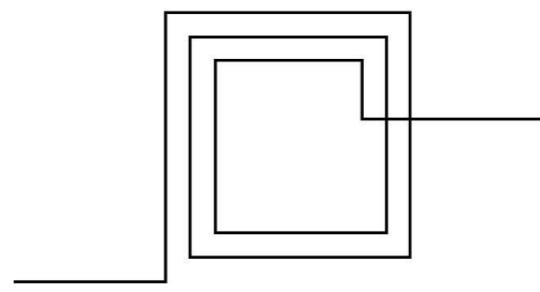
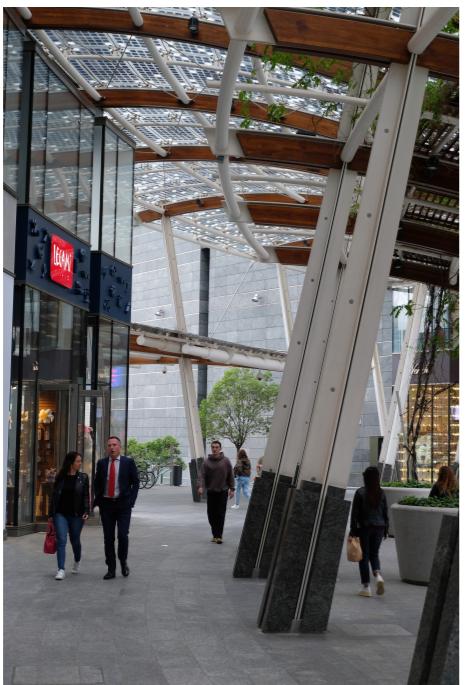
LOCATION



MILAN

ITALY

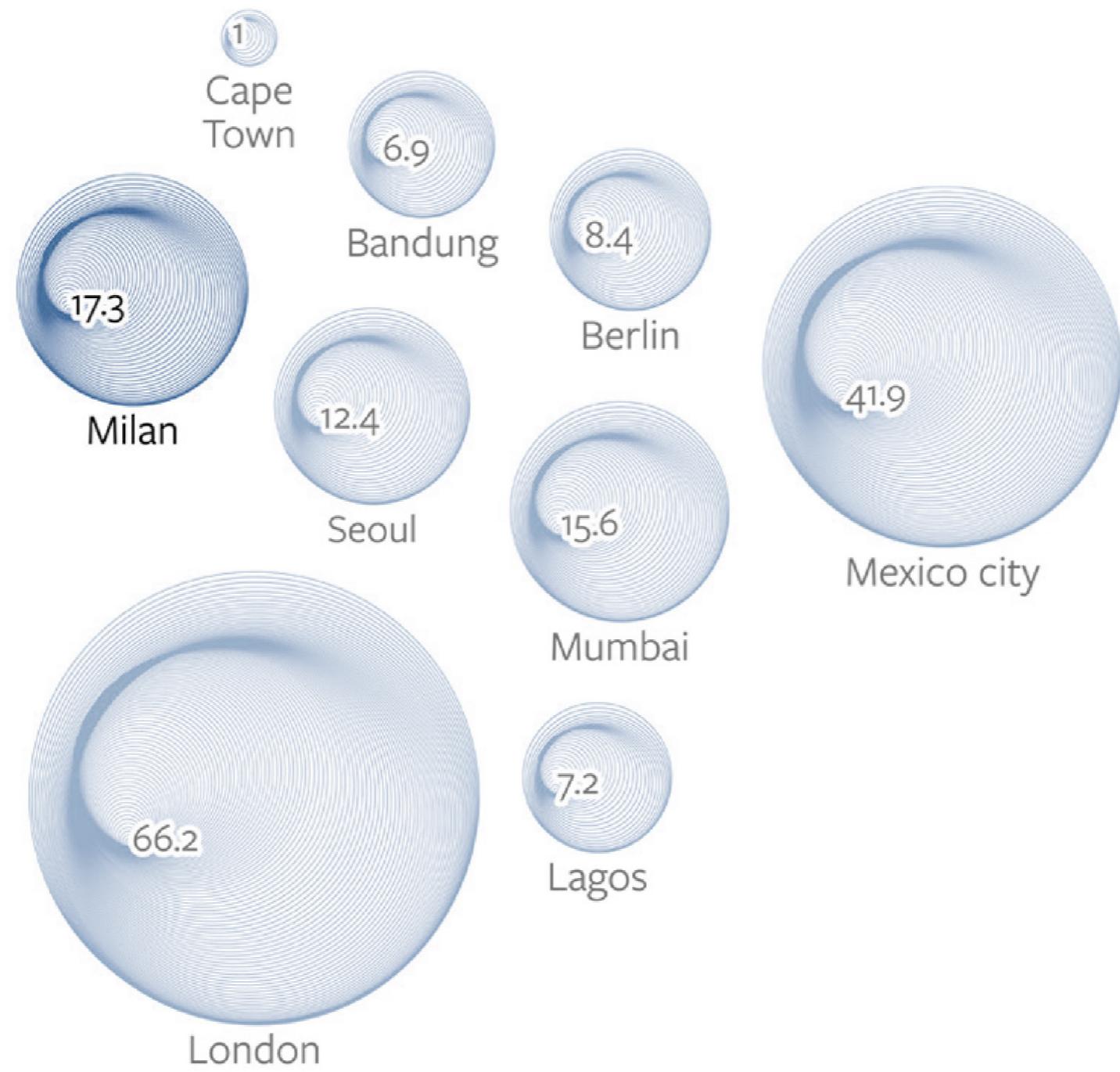


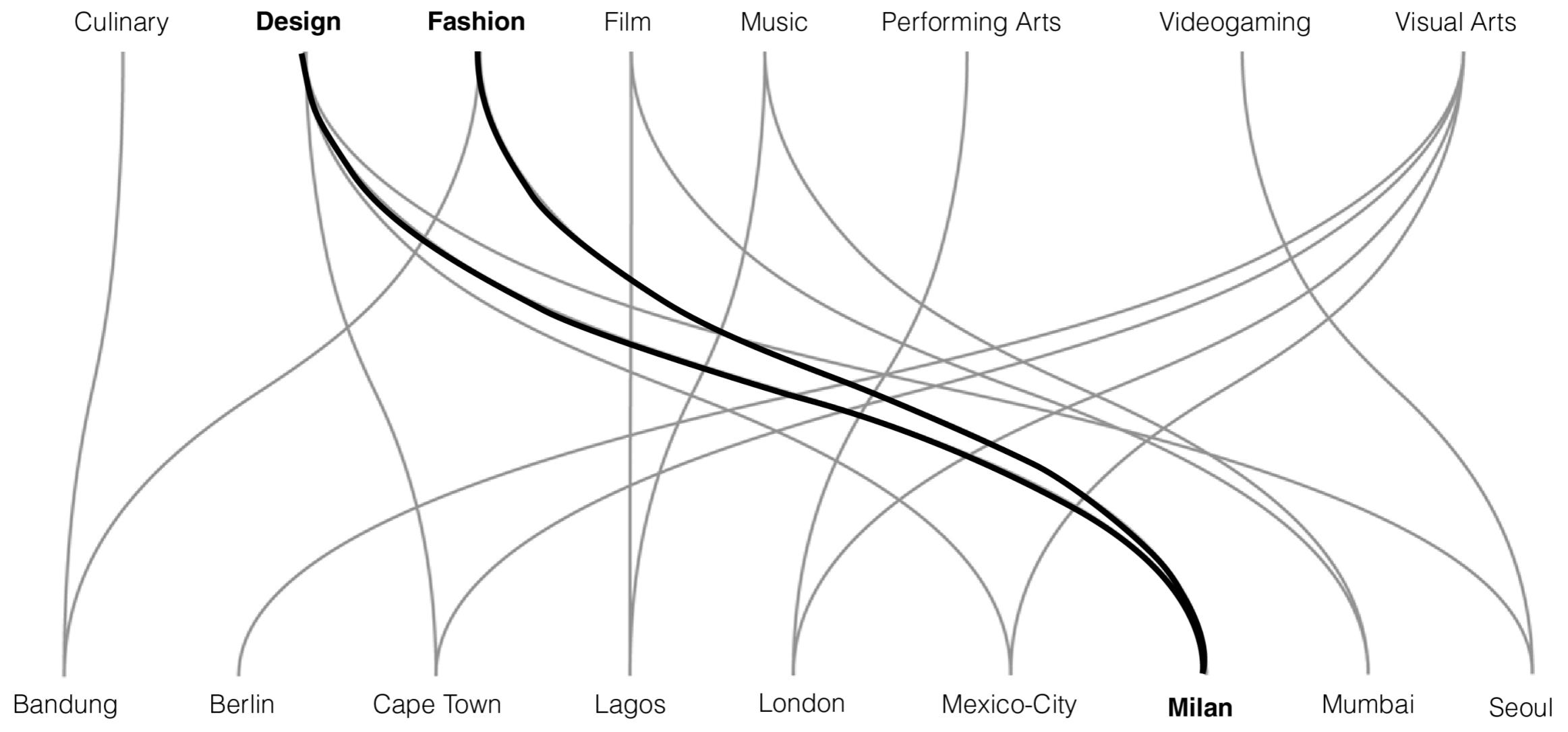


Civic

THE CREATIVE ECONOMY







MILAN FASHION WEEK





MILAN DESIGN WEEK

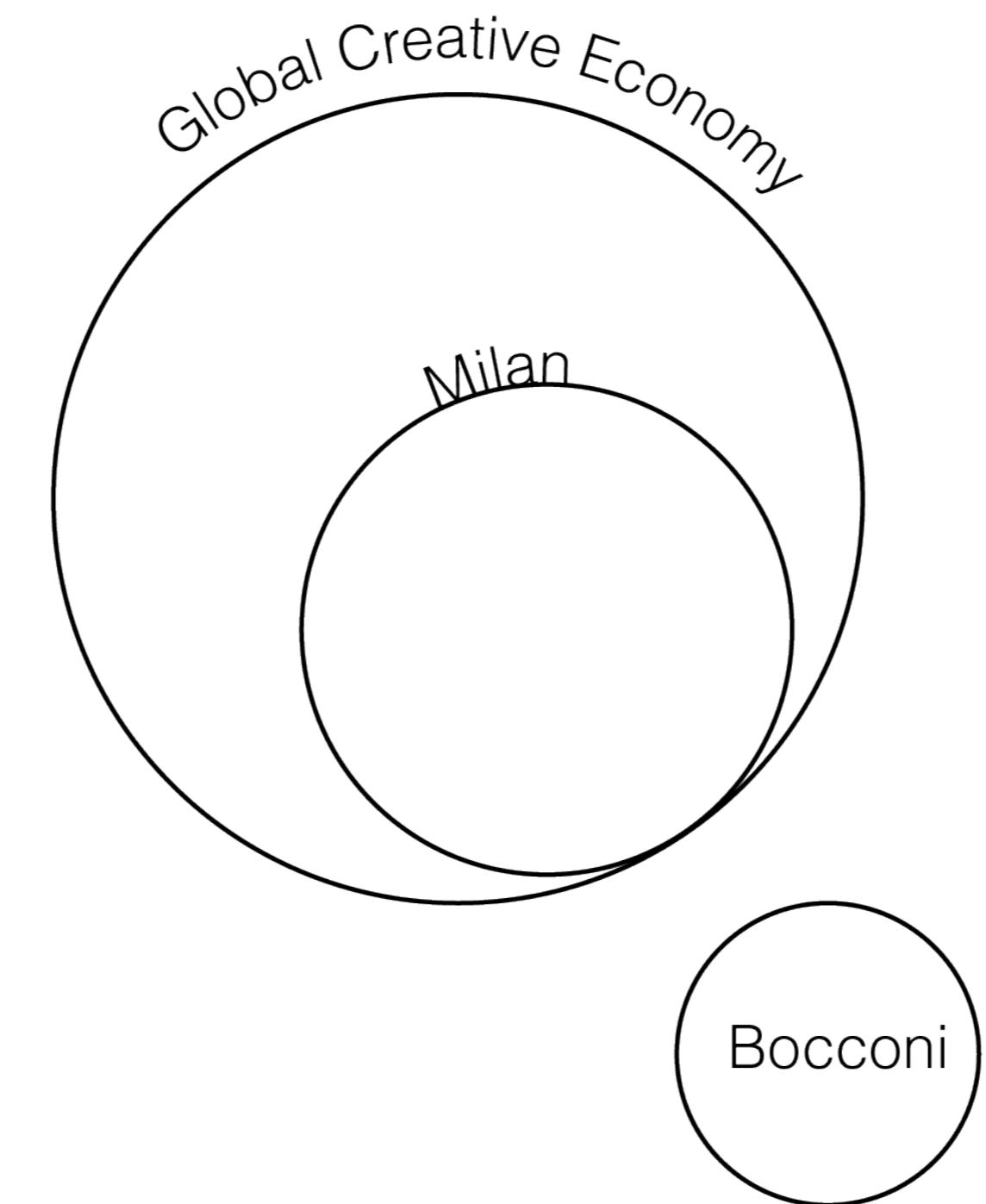
honet



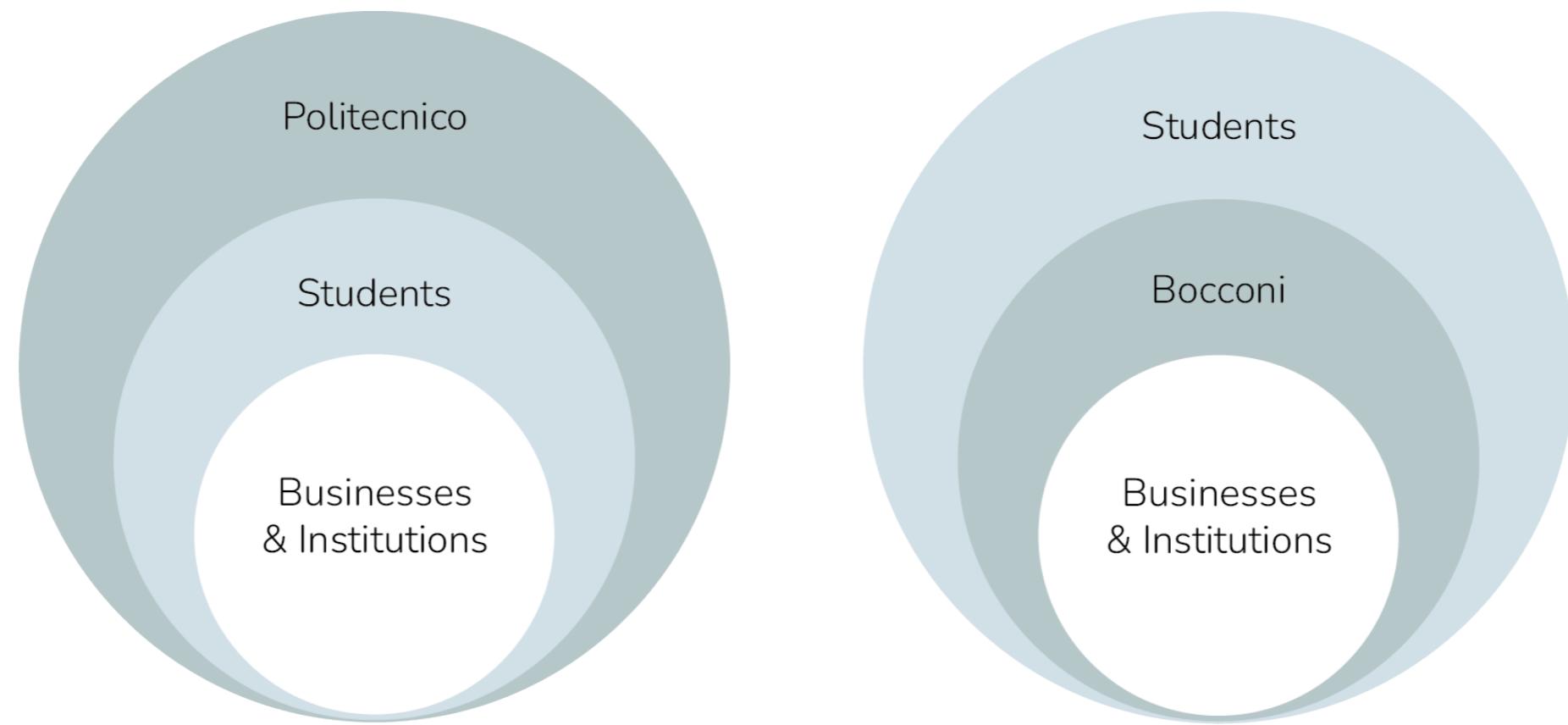
Bocconi featured in fashion week campaign (Russo, 2024)



Anna Wintour at Bocconi (Benigno, 2025)









POLITECNICO
MILANO 1863



Bocconi

920

....

248

CLIENT



Bocconi
Università Commerciale
Luigi Bocconi

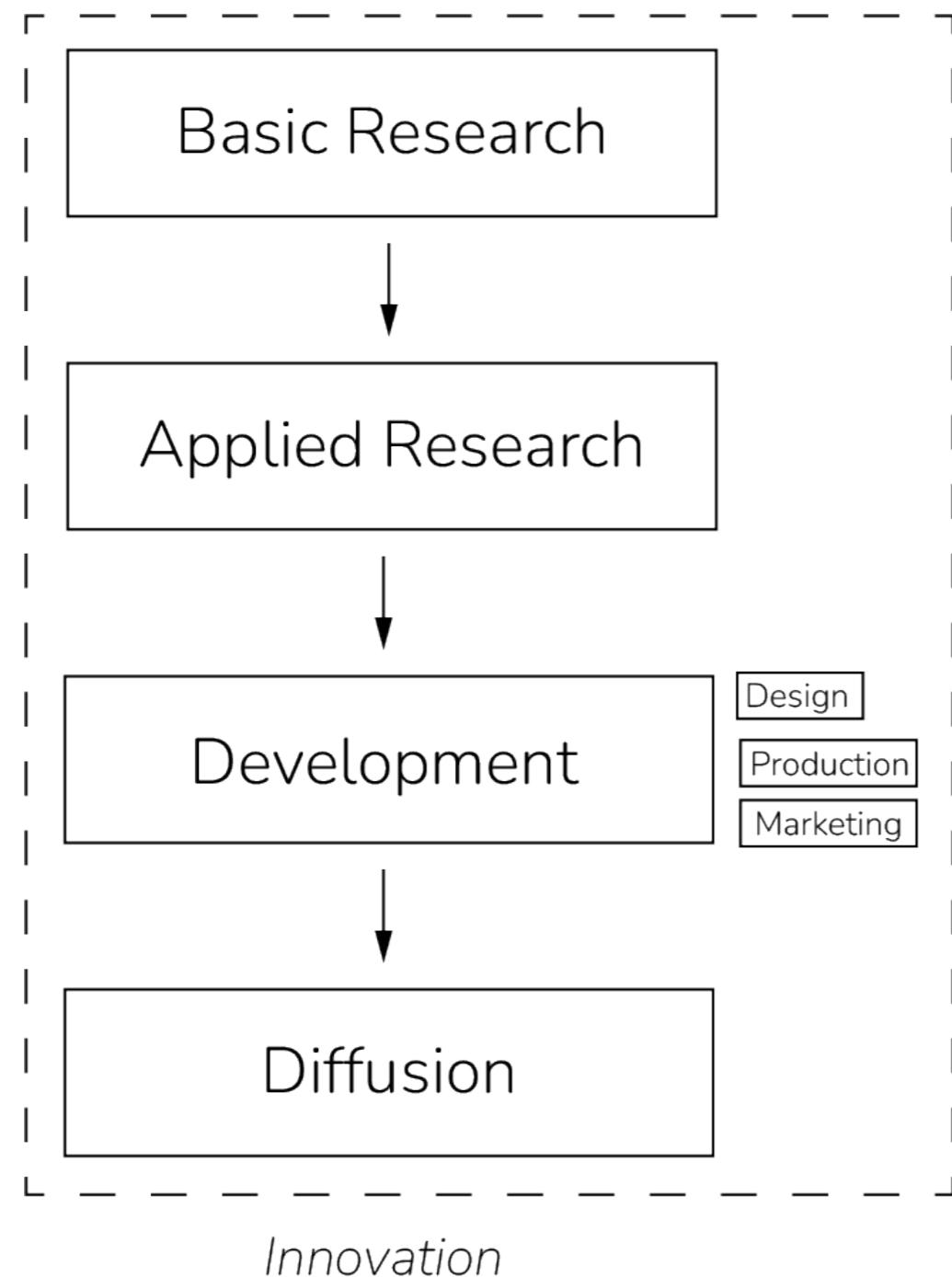
**920th in the world
36th in Italy**

CLIENT



Bocconi
Università Commerciale
Luigi Bocconi

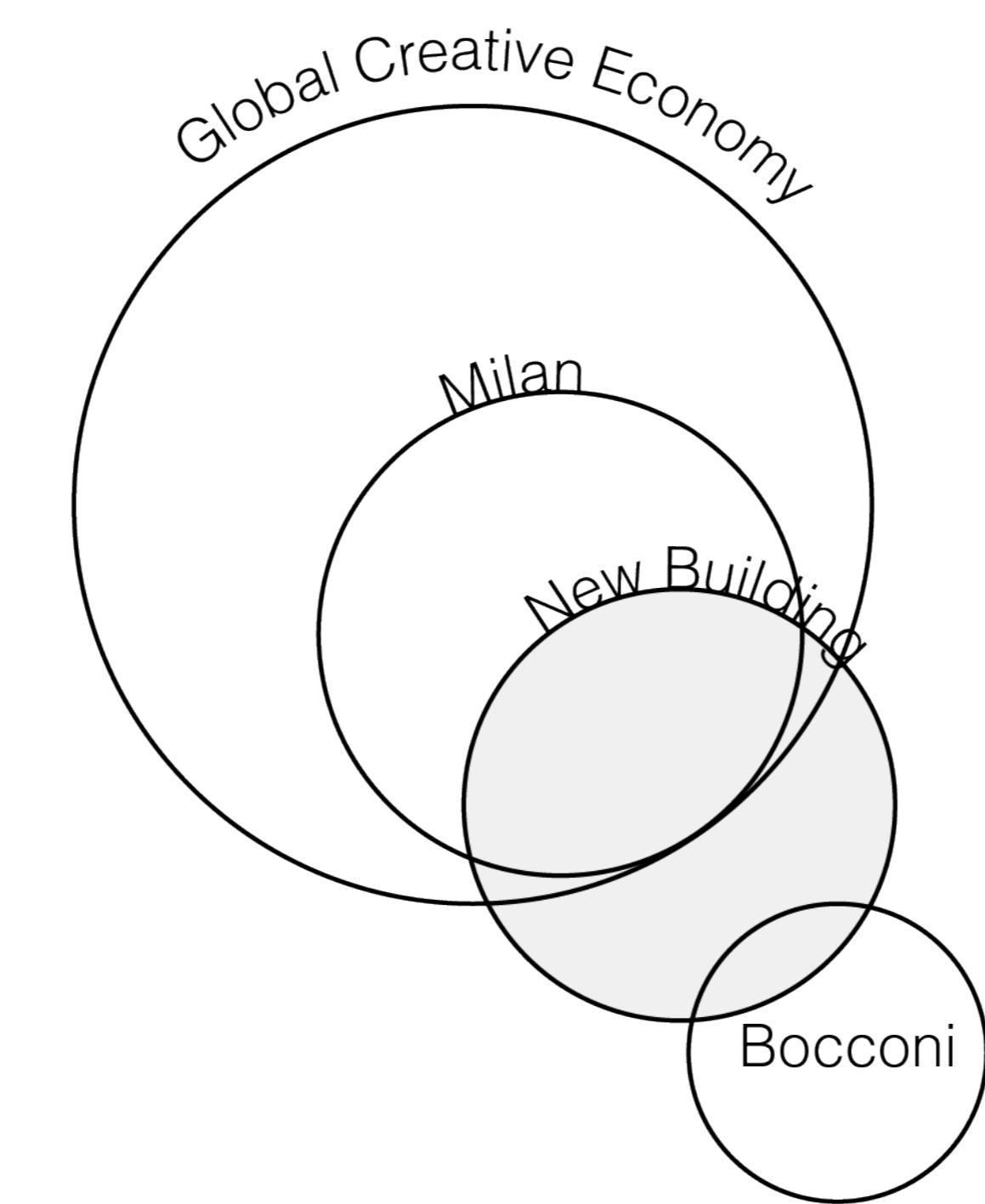
Leading Global University
Innovation & Entrepreneurship



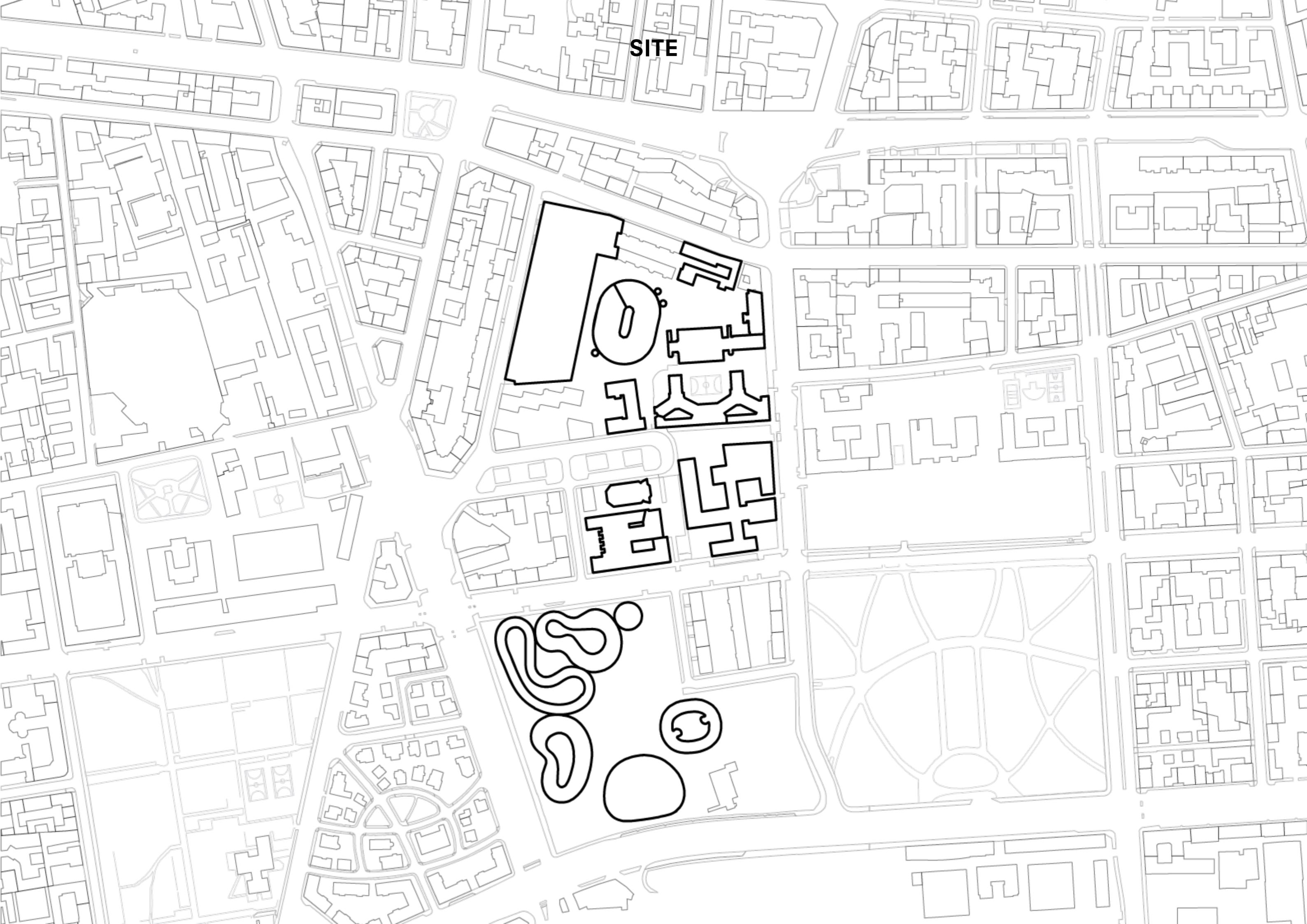
The linear model of innovation

The digitalisation of education provides an opportunity for universities to **commercialize their research findings more quickly**. Presenting an opportunity to **strengthen the university's connection to the creative economy** (Pingki, Silamat, Hernawati & Rahman, 2025).

The process of moving from basic research to applied research to research development can be sped up. **Universities that serve as an engine of innovation** (Godin, 2006).



SITE





1941

Giuseppe Pagano
Rationalism



1965

Giovanni Muzio
Rationalism



2001

Ignazio Gardella
Late Modernism



2008

Grafton Architects
Contmpr. Brutalism

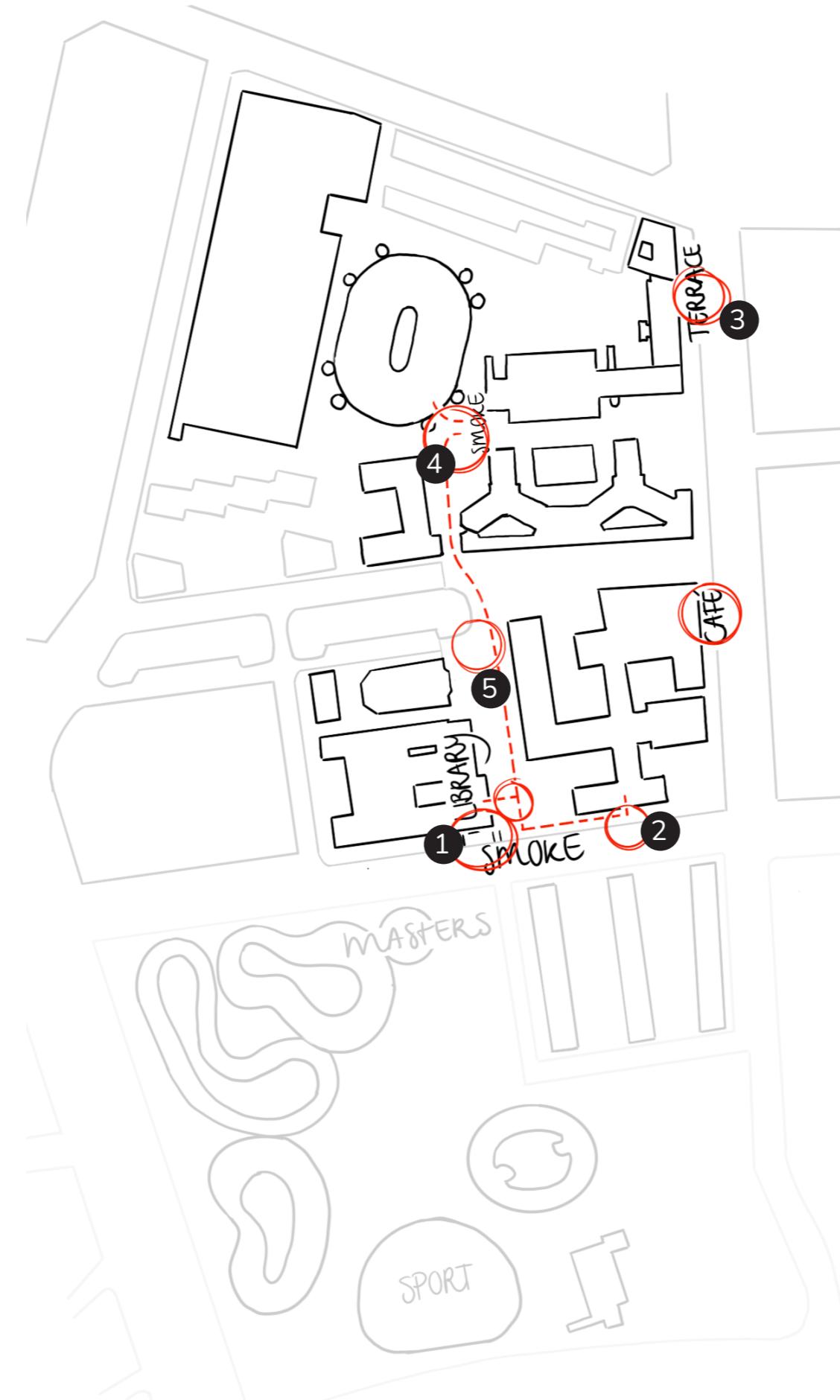


2019

SANAA
Contmpr. Minimalism

Designed for traditional education

Designed for transformative education



- 1. Smoking Benches
- 2. Arcade
- 3. Terrace
- 4. Smoking Area
- 5. Round Benches

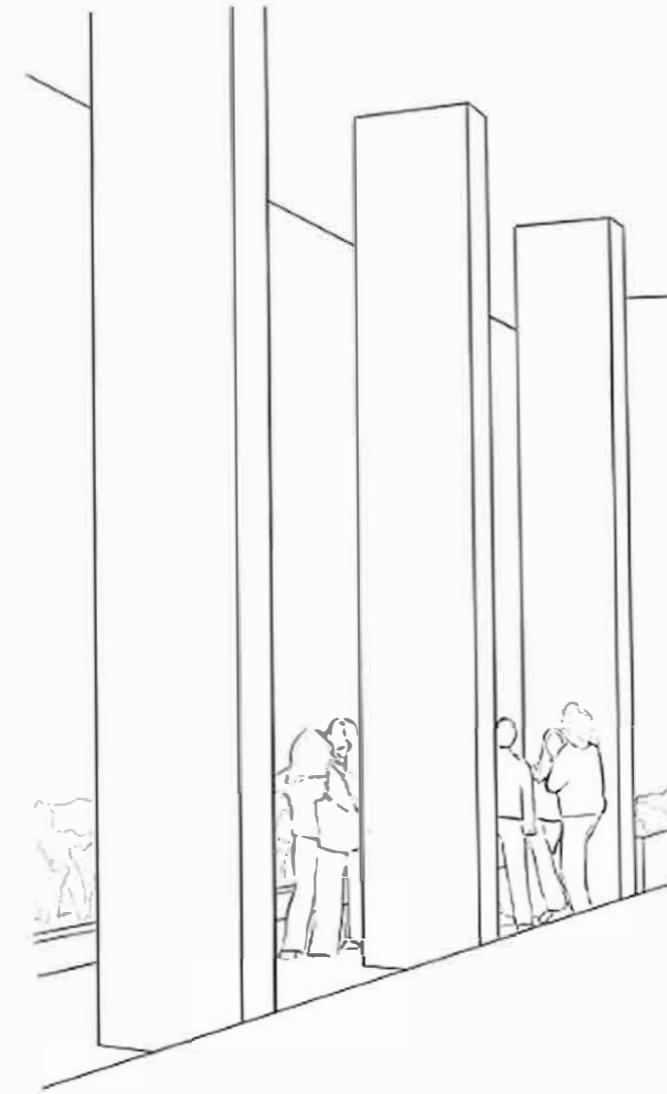
- Not owned by Bocconi
- Owned by Bocconi
- Not owned by Bocconi
- Owned by Bocconi
- Owned by Bocconi



Square with pergola



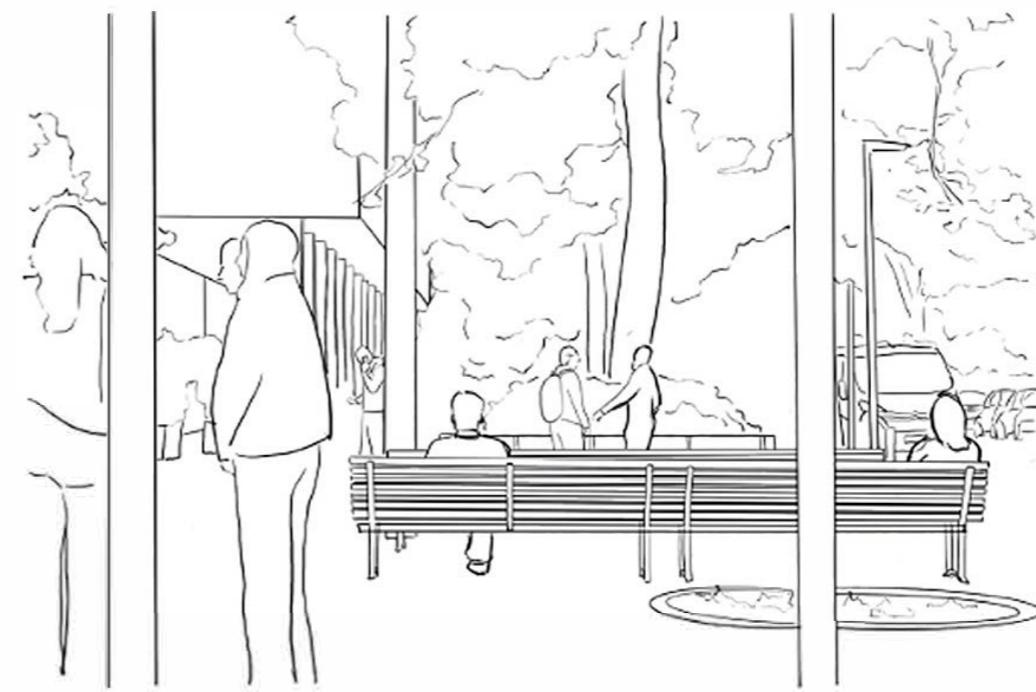
Round Benches



Arcade



Non - Bocconi owned cafés



Governmental Benches

CLIENT

*'The social space is now the **smoking spaces**'*

*'I go to campus to see my **friends**, I barely go to any lectures'*

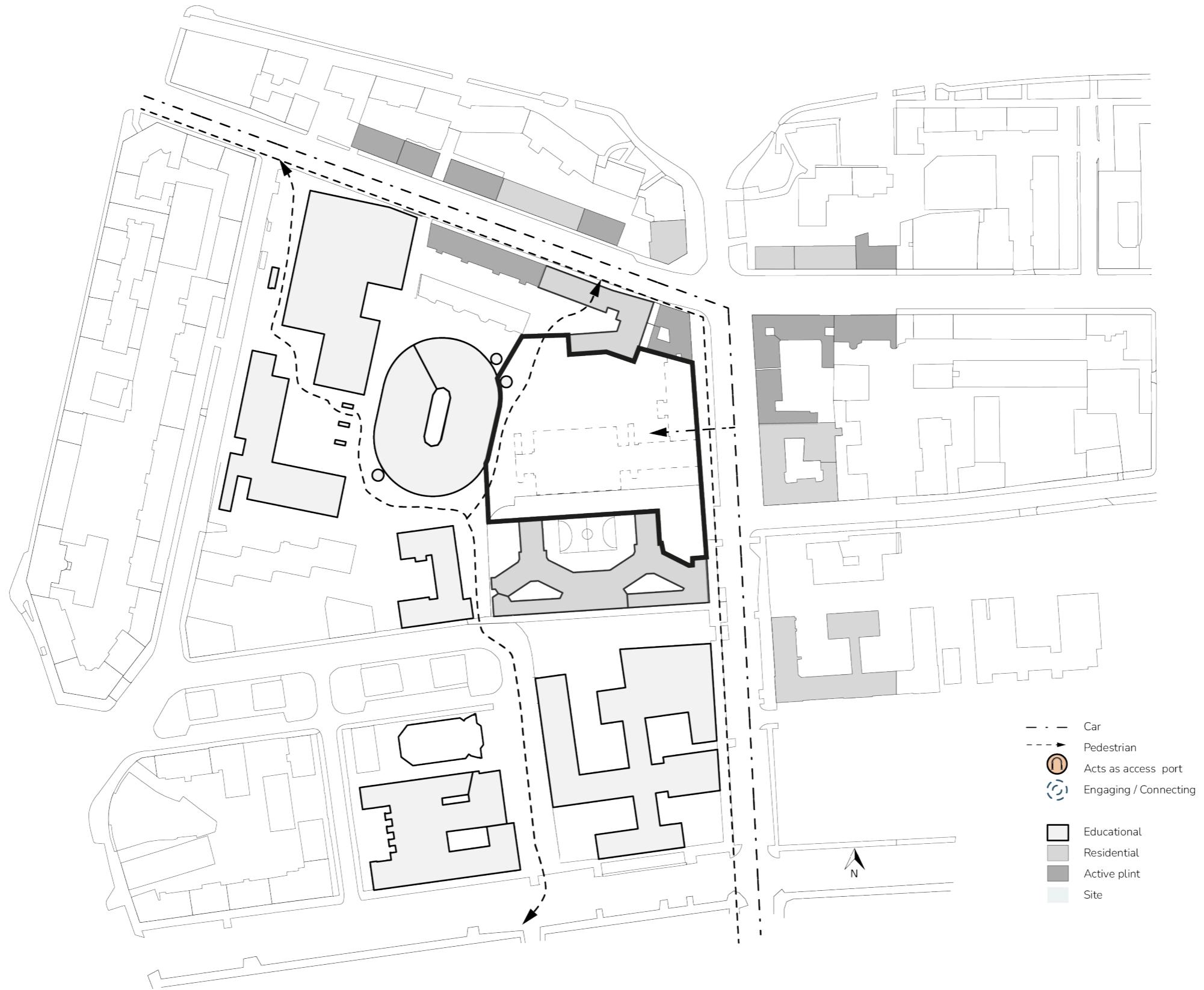
*'The university is not only a place for lessons and learning, but also to find a **community** and it is a way to create a more **professional network**'*

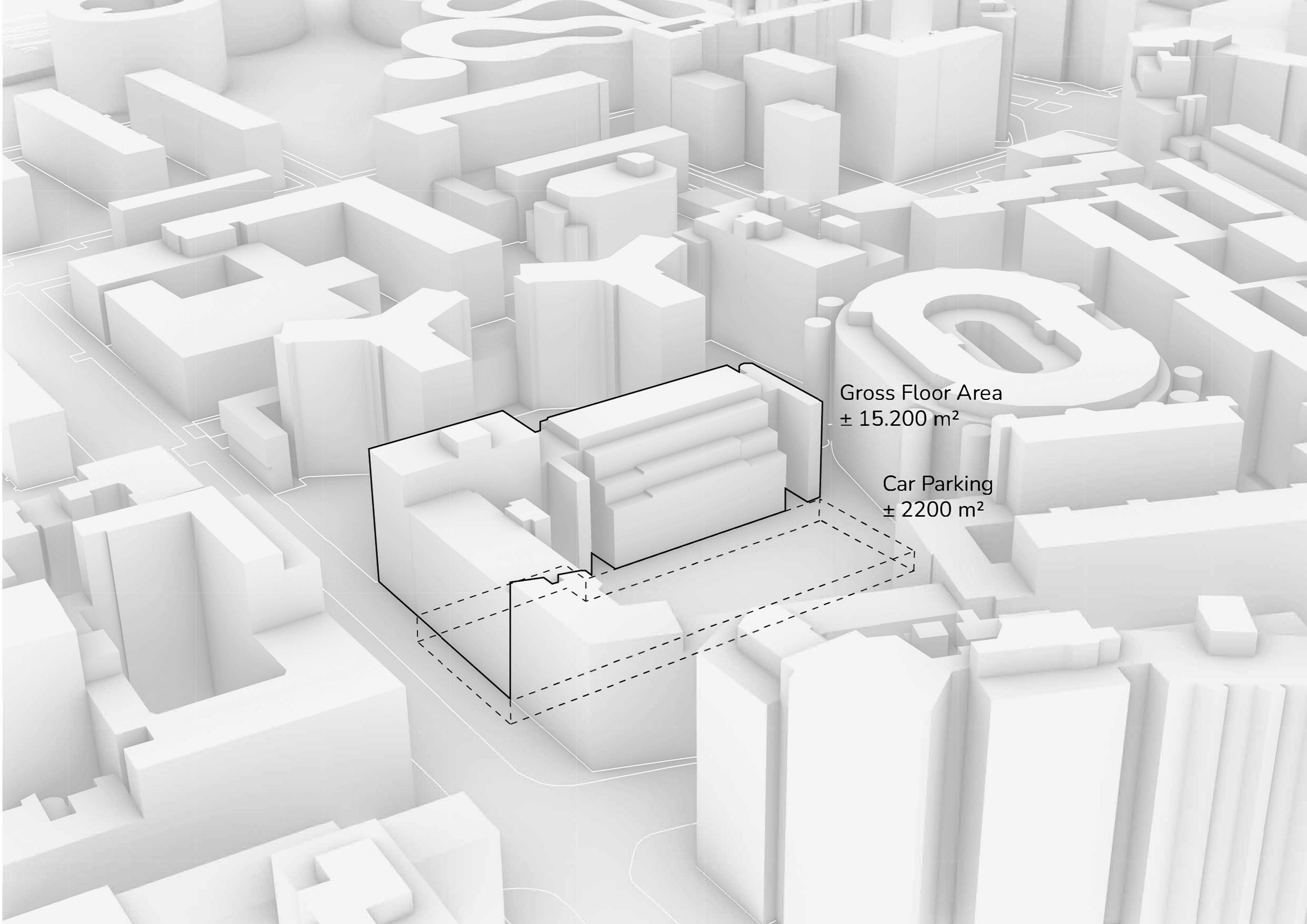
*'Maybe I would like a place to **meet people** from other courses'*

'I see more computers then people'

*'There is a problem with the space in the library, you have to **fight for a seat**'*

SITE





Gross Floor Area
± 15.200 m²

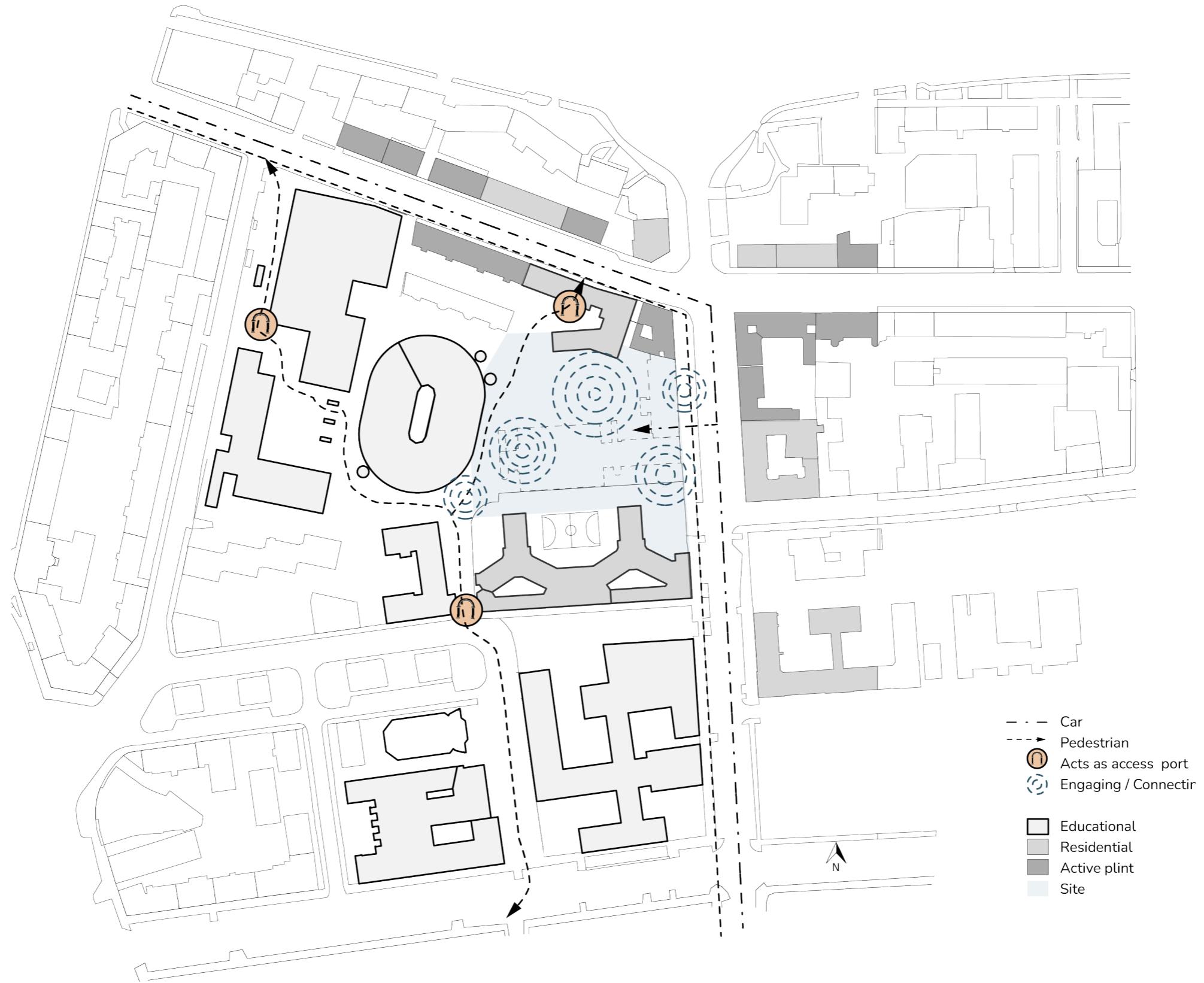
Car Parking
± 2200 m²

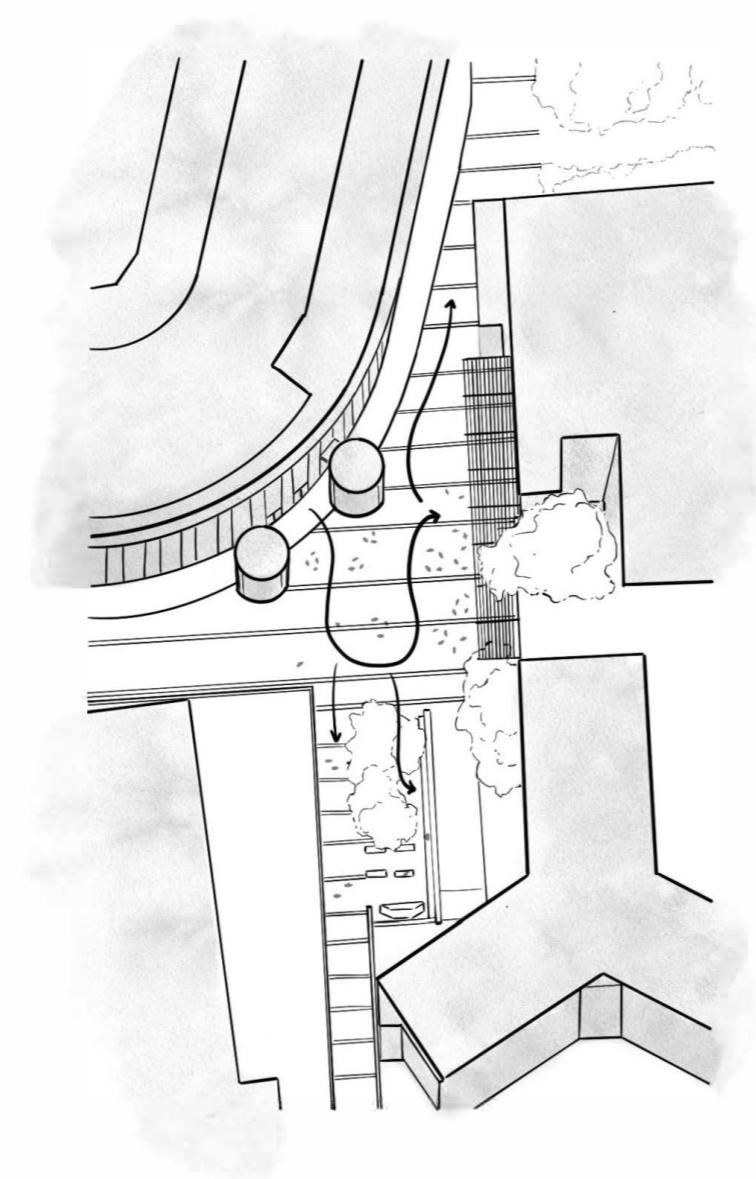


Campus

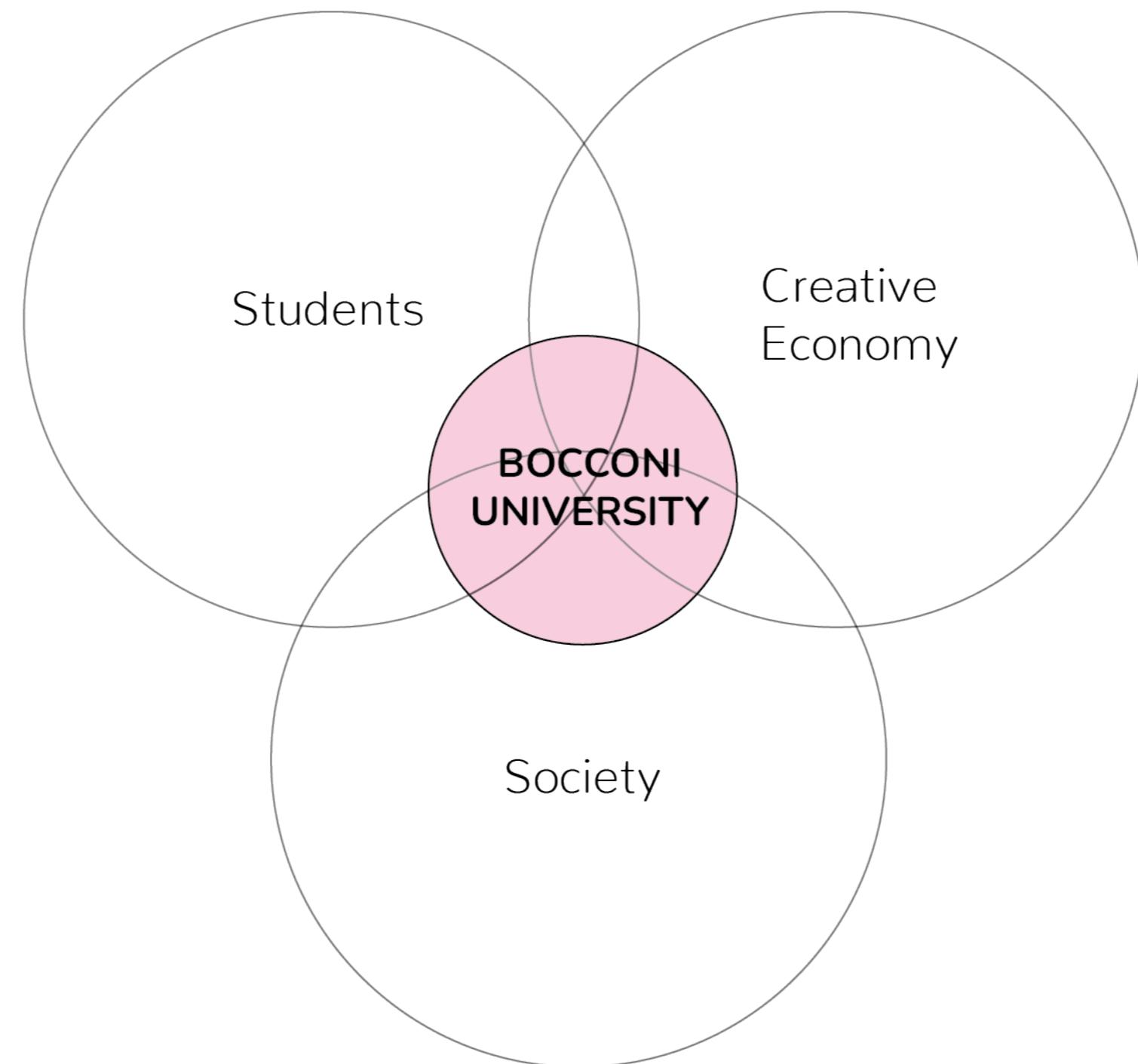


City





OPPORTUNITY



DESIGN BRIEF





AMBITION

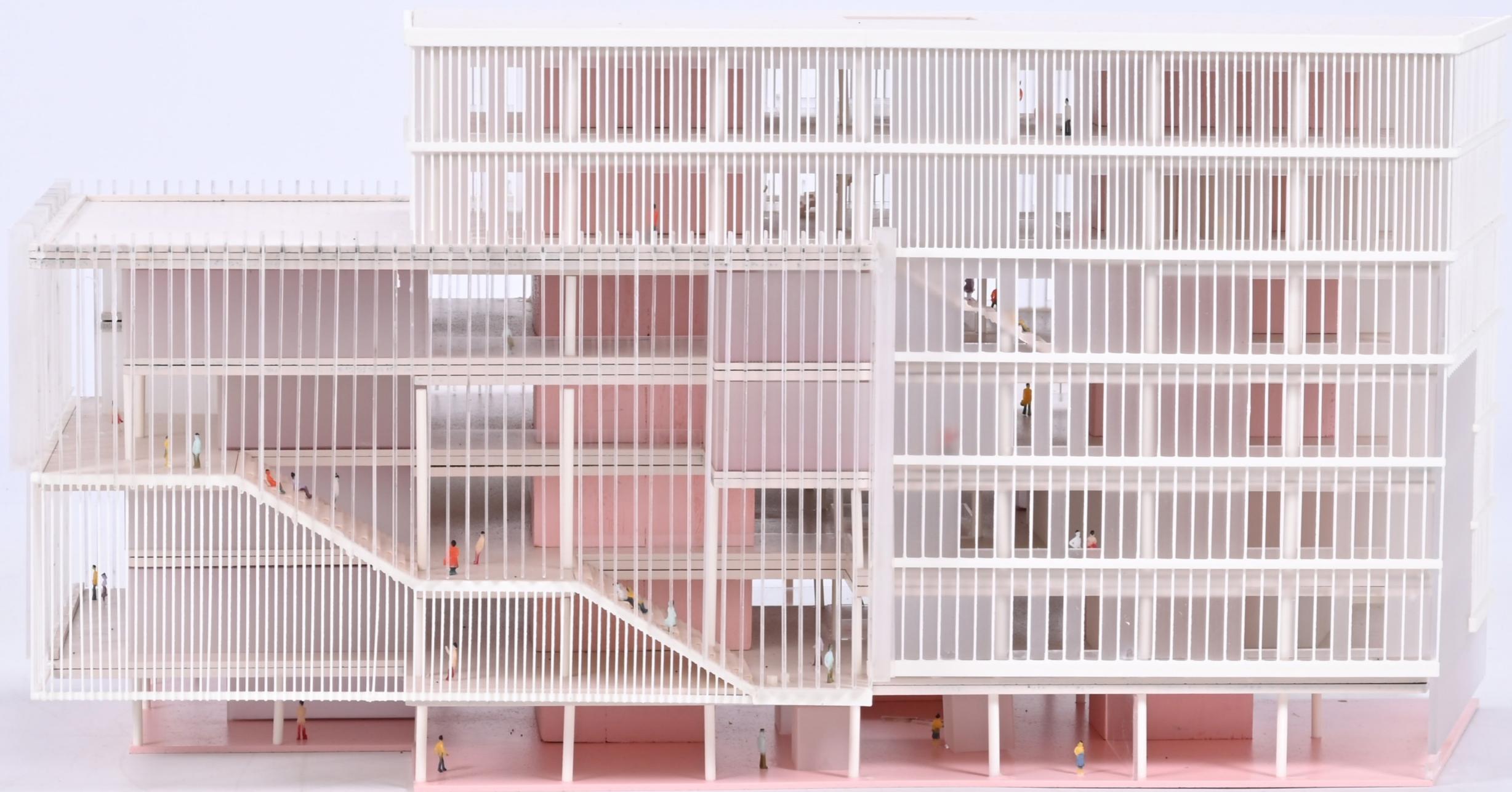
**THE UNIVERSITY THAT MOVES
BEYOND THE CLASSROOM**

REQUIREMENT

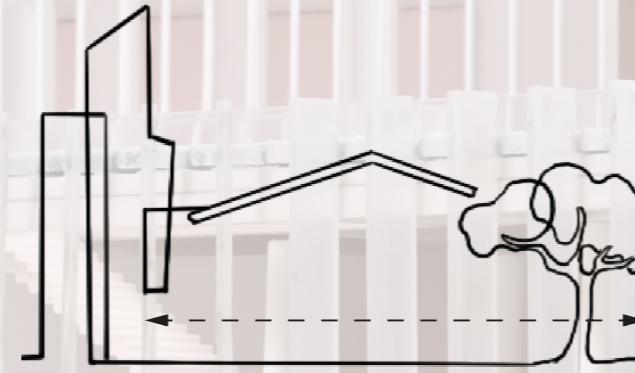


FUNCTION AS SOCIAL HUB

A continuous landscape of interaction



REQUIREMENT



CONTINUITY FROM EXTERIOR TO INTERIOR

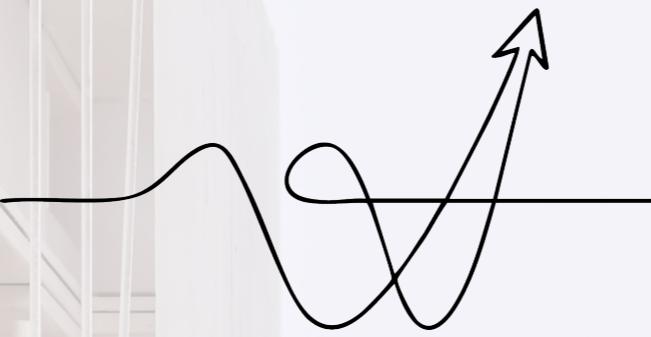
Dissolve the boundary



REQUIREMENT

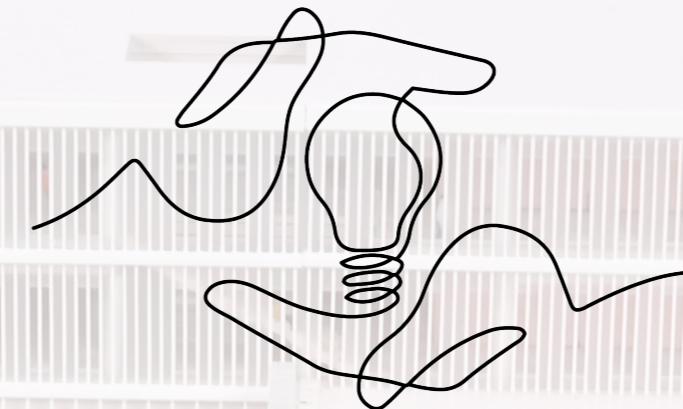
CREATE SPACES FOR THE CREATIVE ECONOMY

Spaces that *invite* collaboration, own
initiative and professional experience





REQUIREMENT

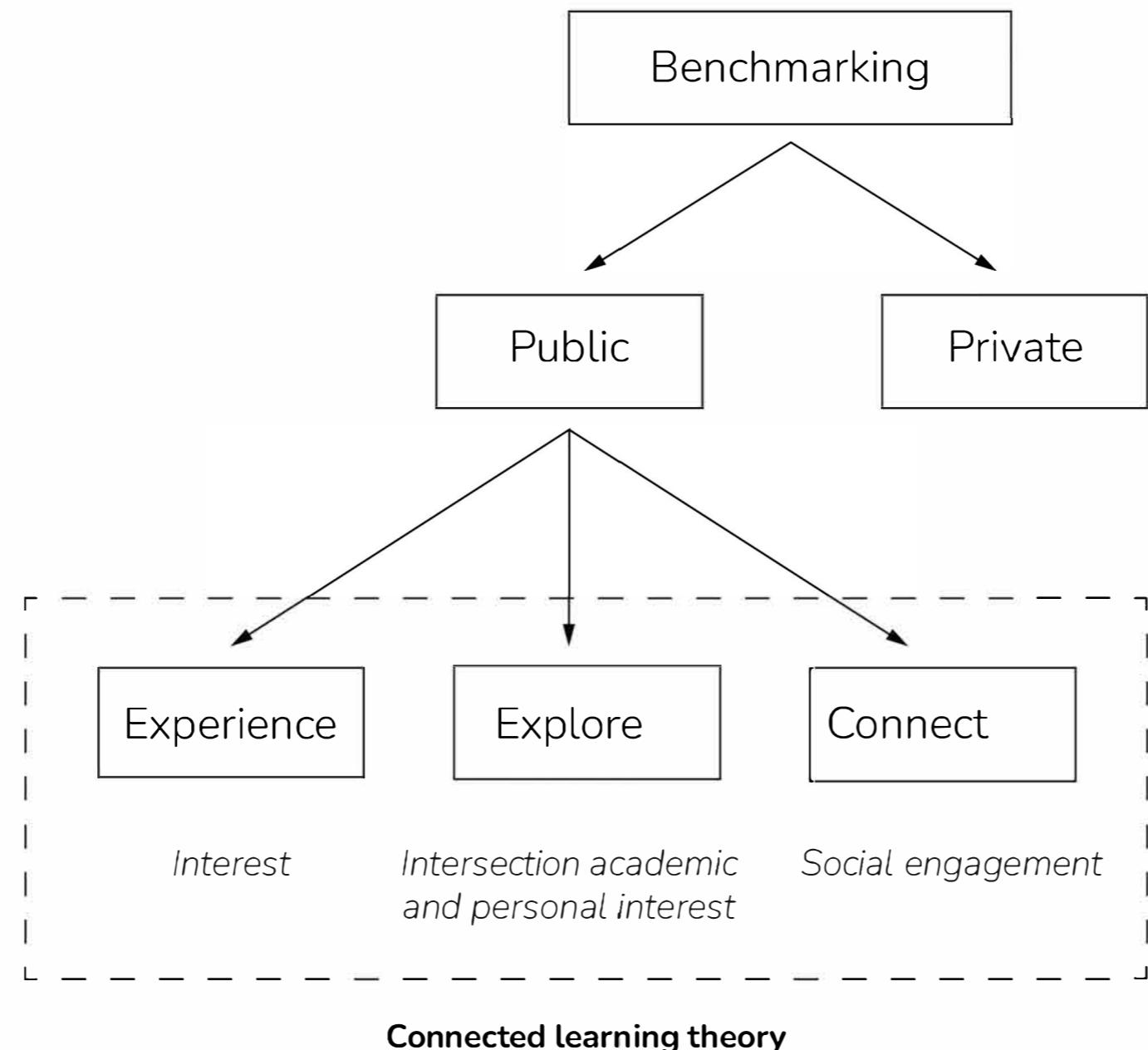


EXPRESS INNOVATION THROUGH ARCHITECTURAL DESIGN

Reflect what the building supports

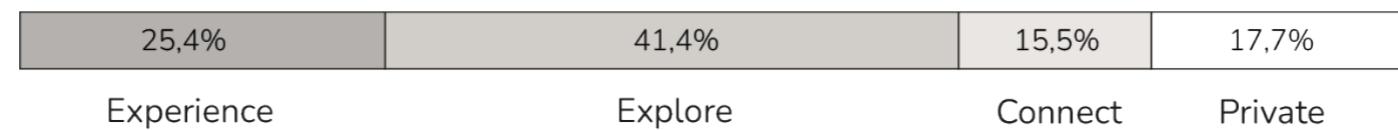


PROGRAM

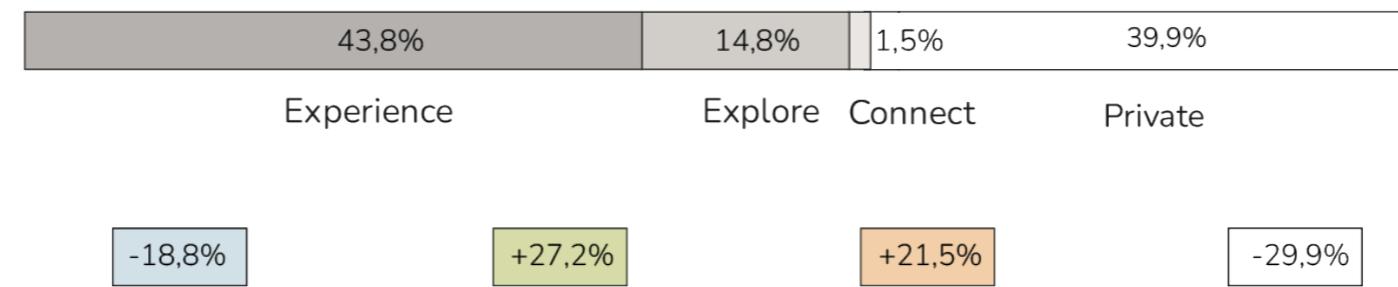


PROGRAM

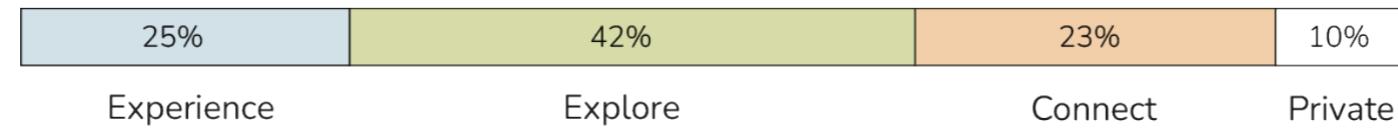
Average



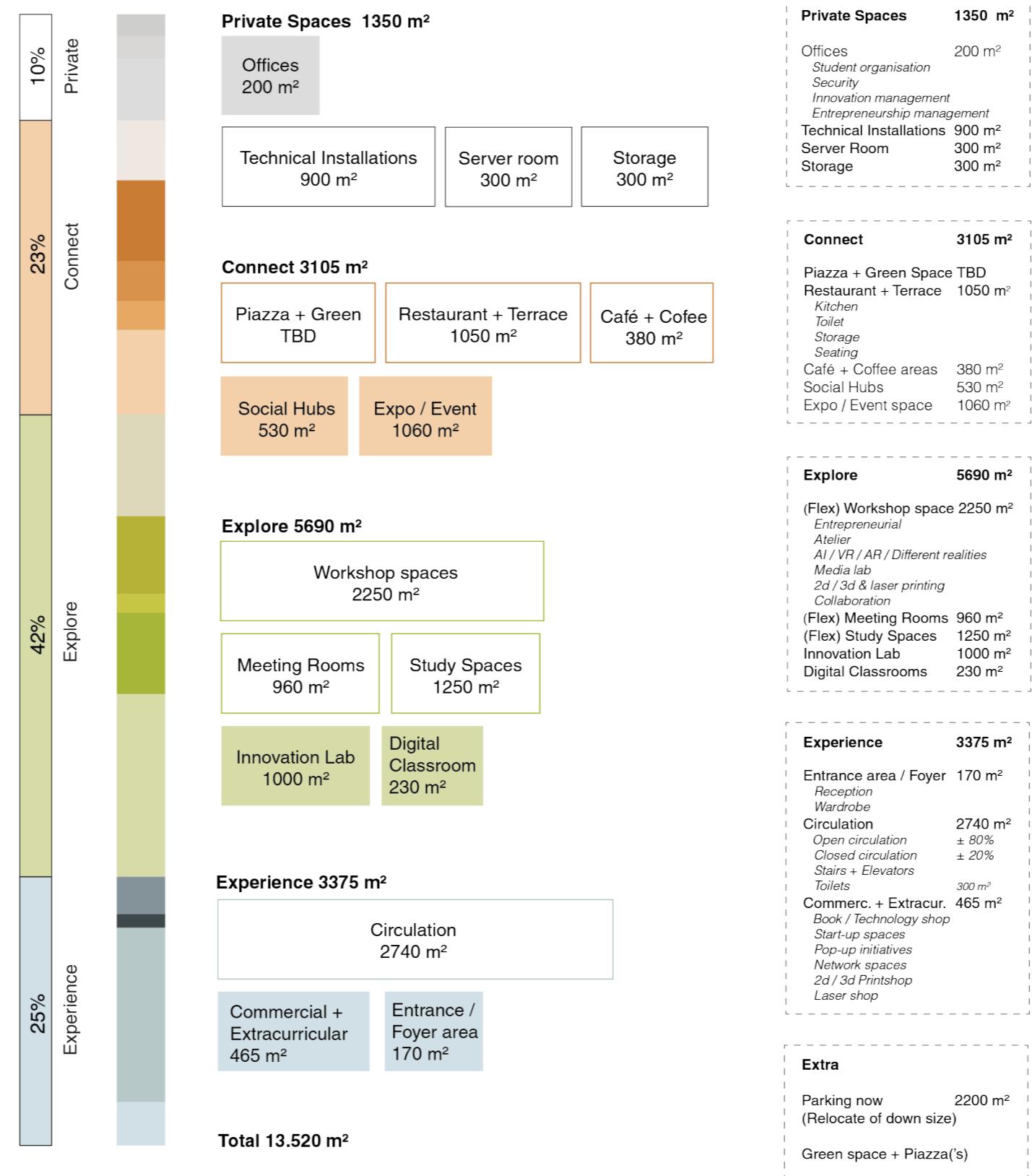
Grafton Building Bocconi



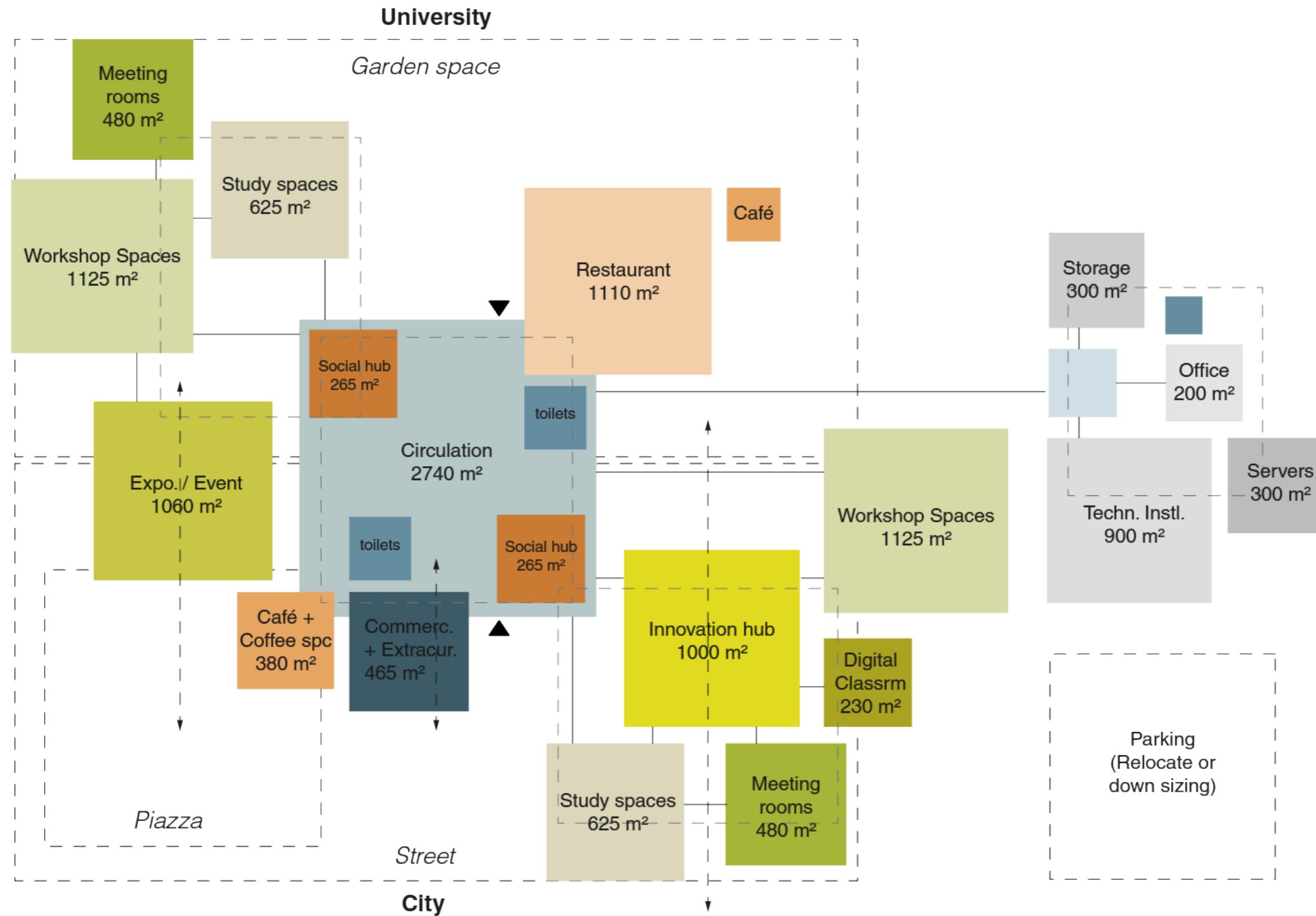
New Program



PROGRAM



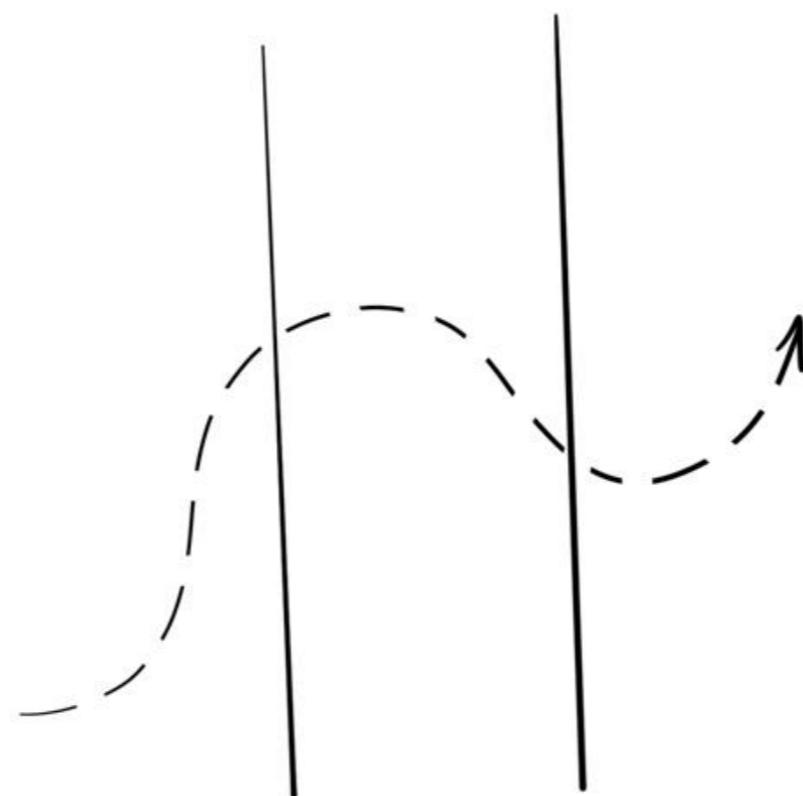
PROGRAM



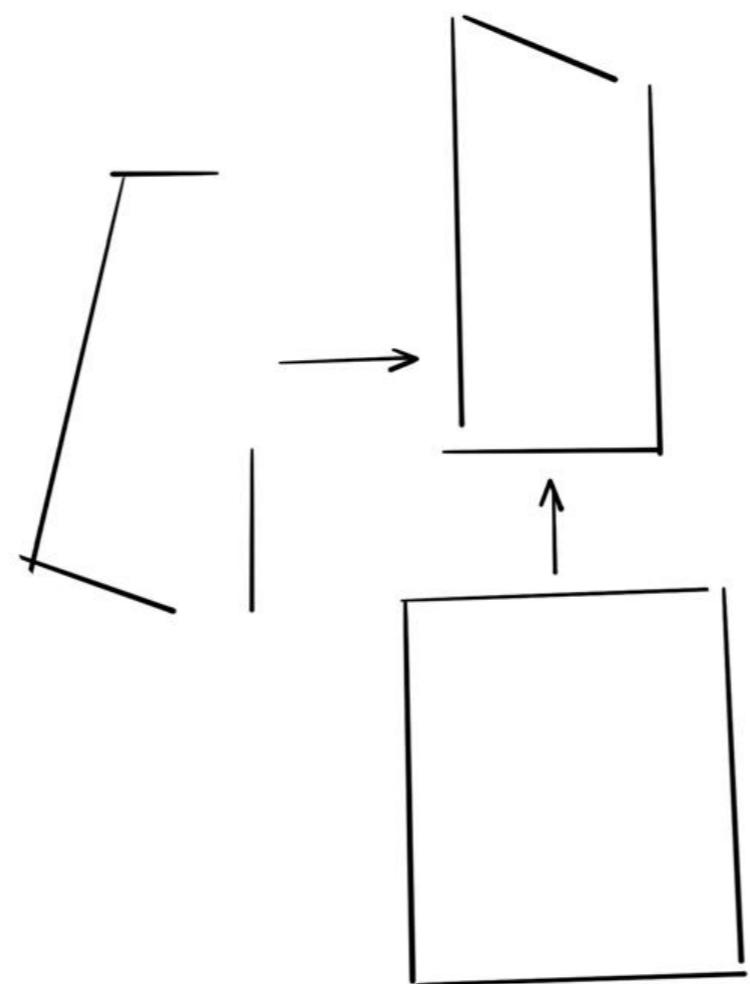
CONCEPT



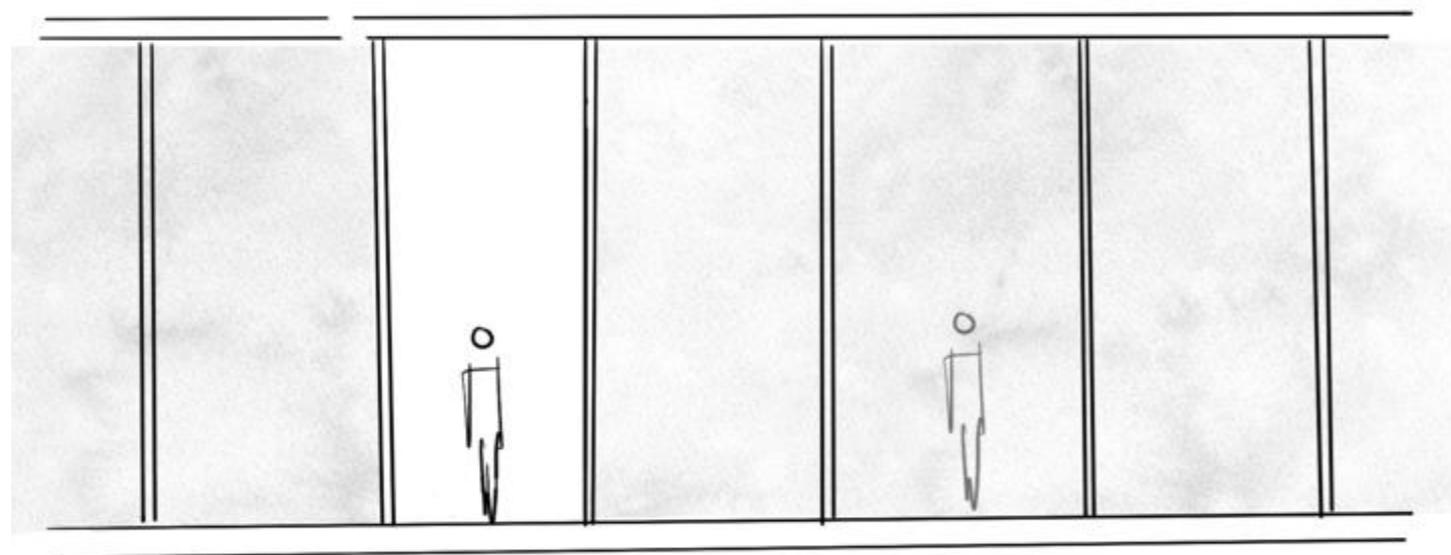
Continuity



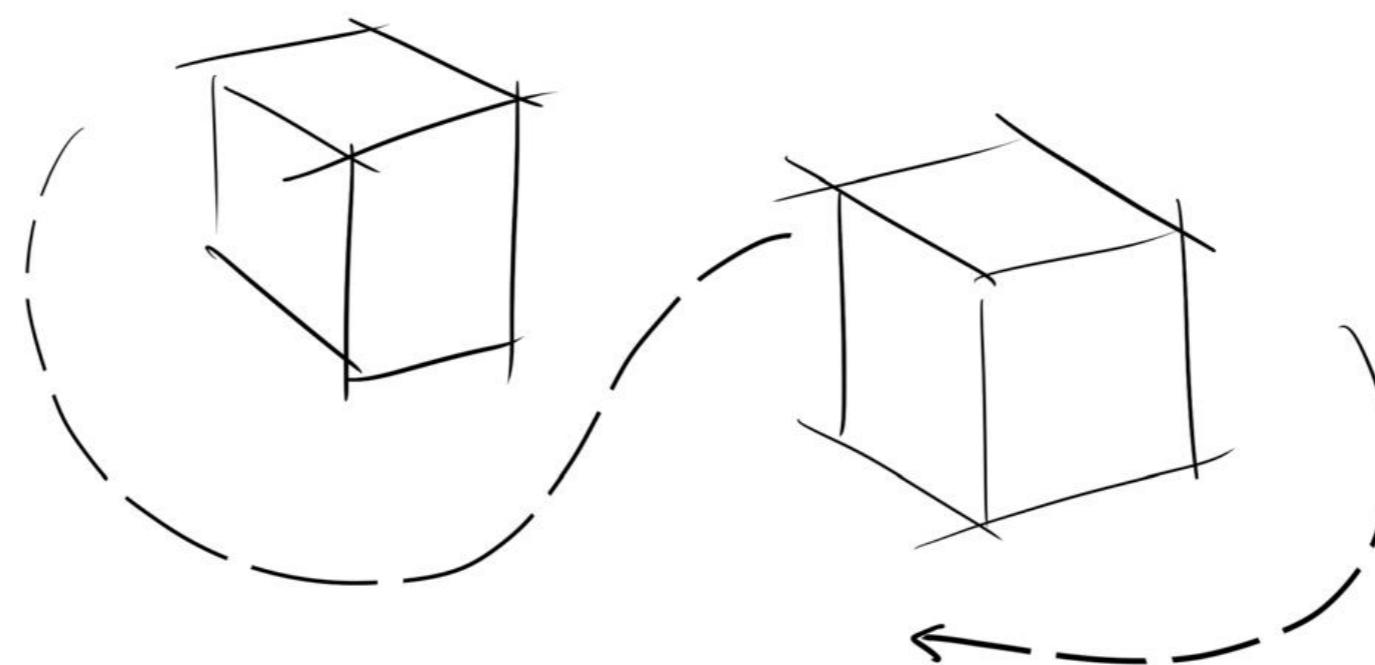
Intersecting Volumes



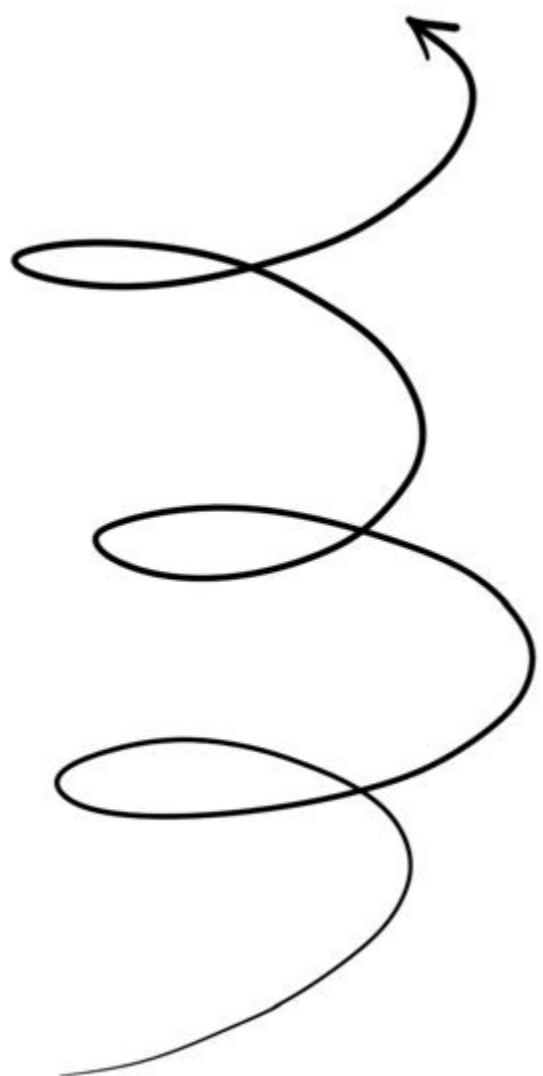
Transparency



Openness and Flexibility



Social Circulation



Support **Non Formal learning**
Create a **University without walls**



A layered learning landscape that supports **innovation**,
social engagement and **personal initiative**.
Connecting students to each other and to the creative
economy of Milan.



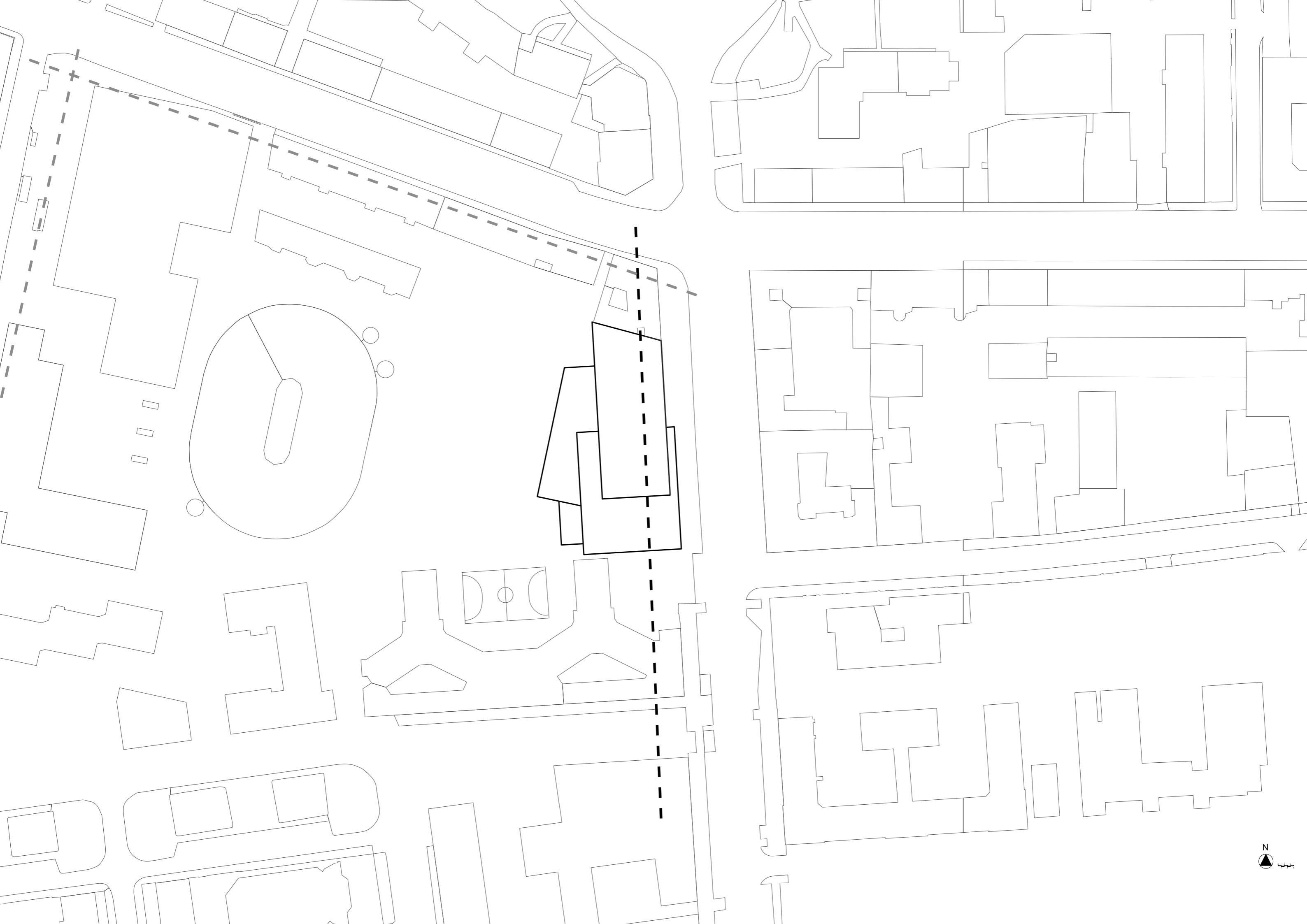
DESIGN





13.150 m²





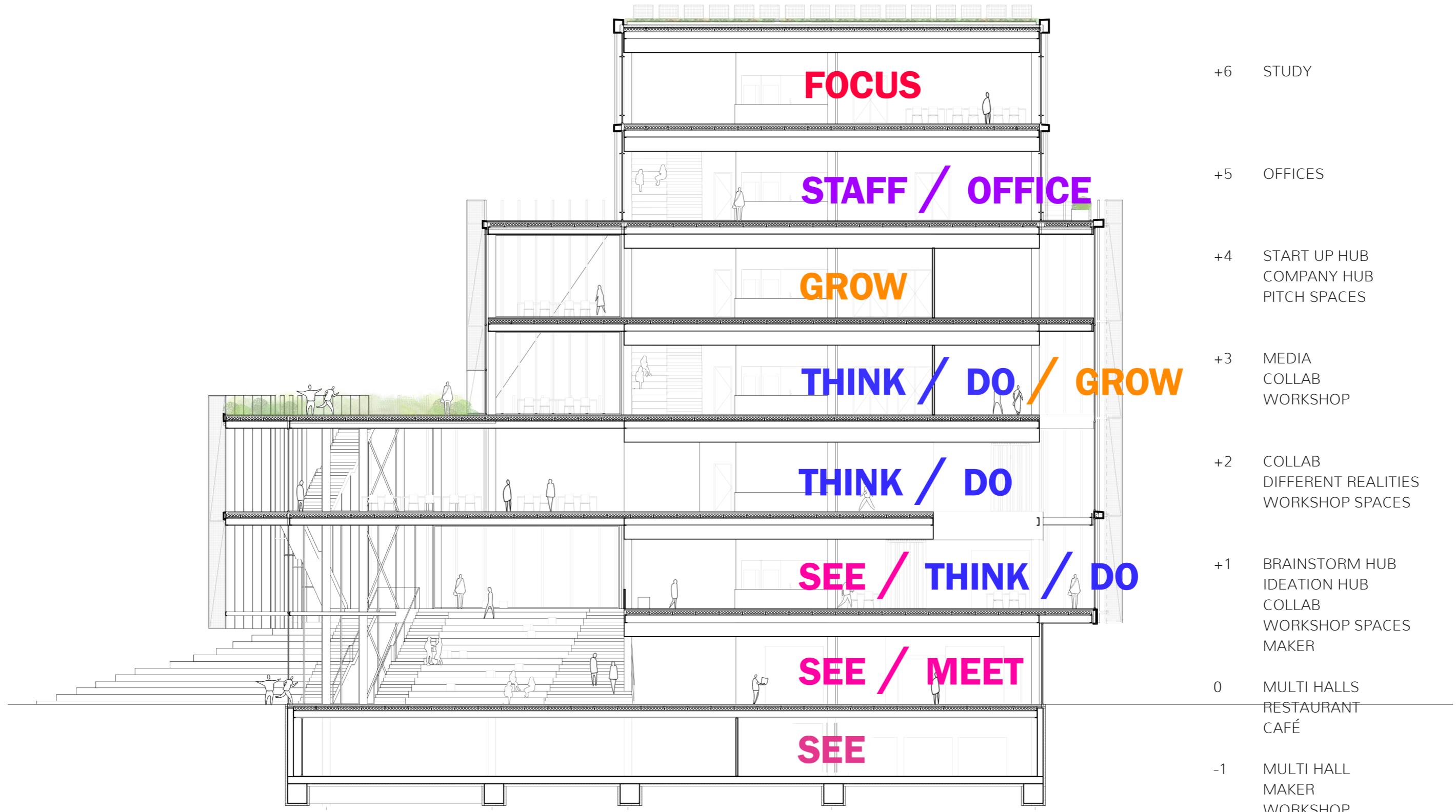






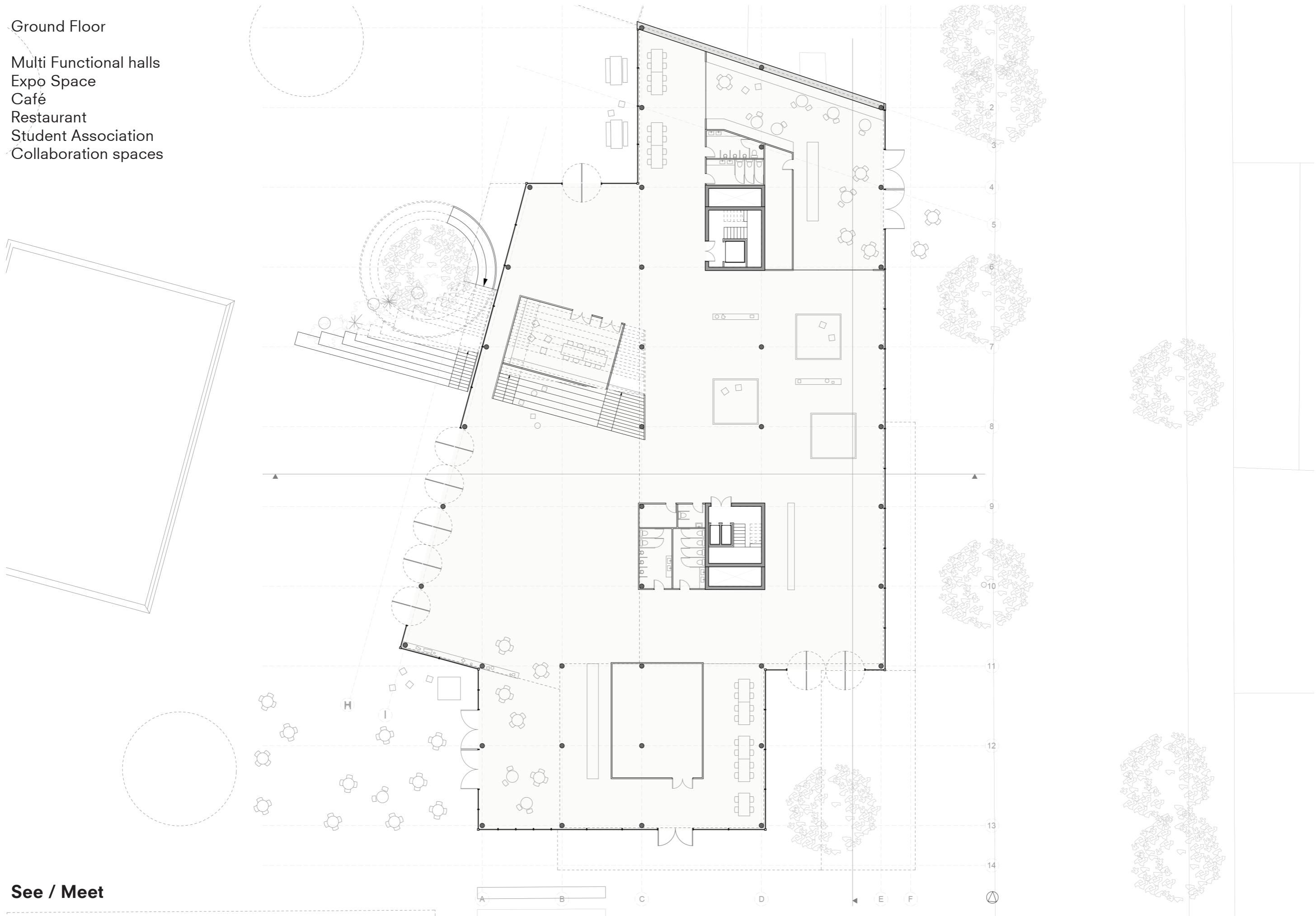


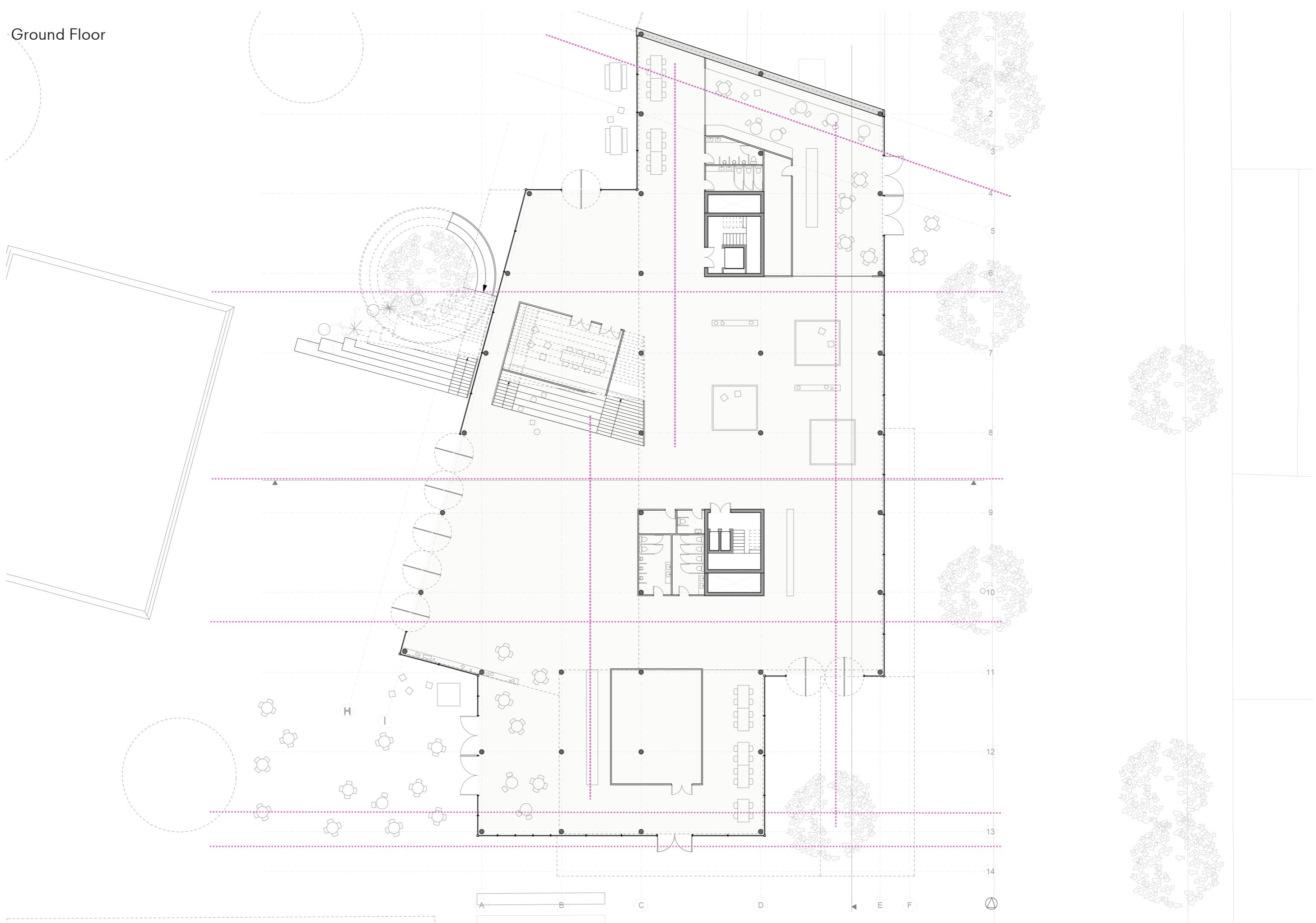


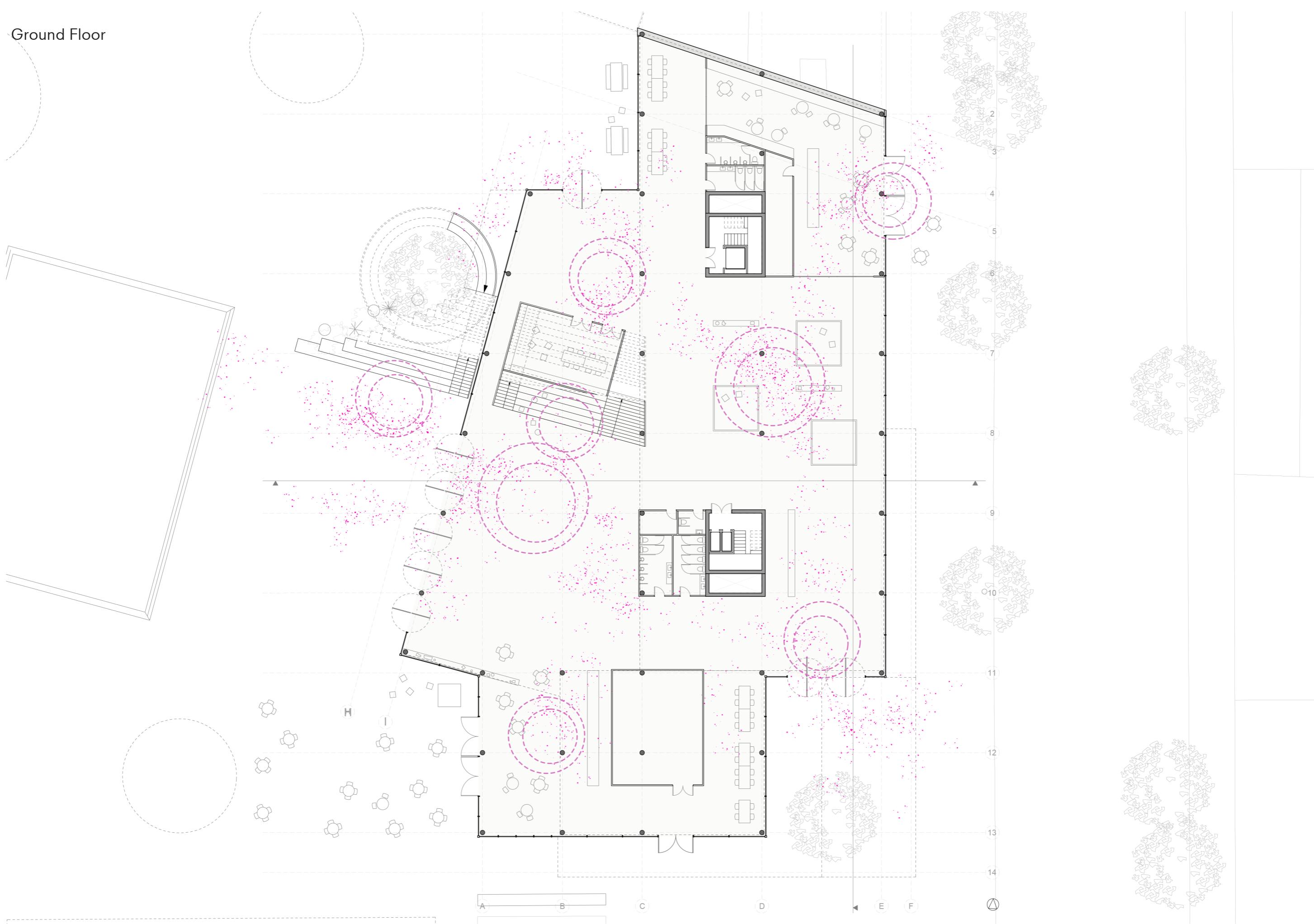


Ground Floor

Multi Functional halls
Expo Space
Café
Restaurant
Student Association
Collaboration spaces







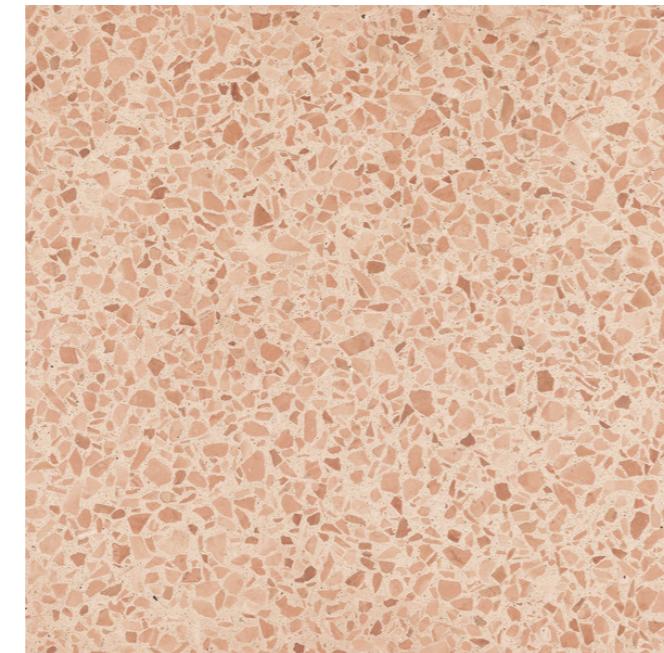
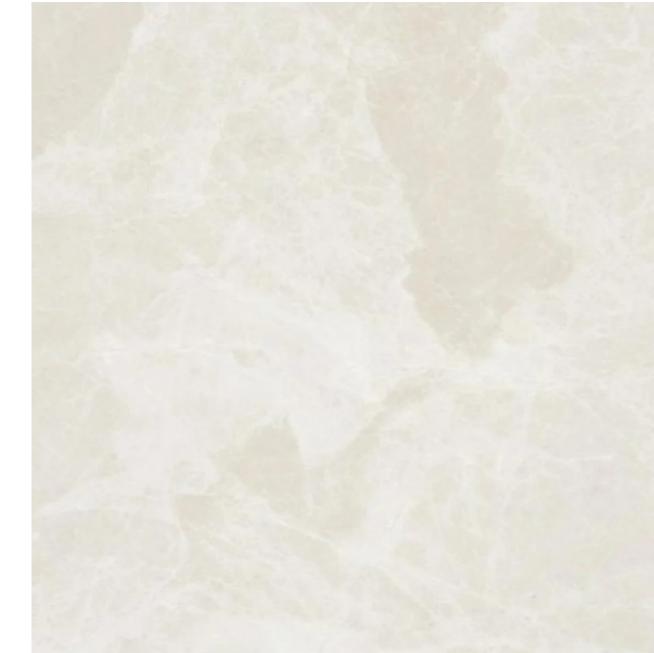


MATERIALITY

Concrete
Terrazzo

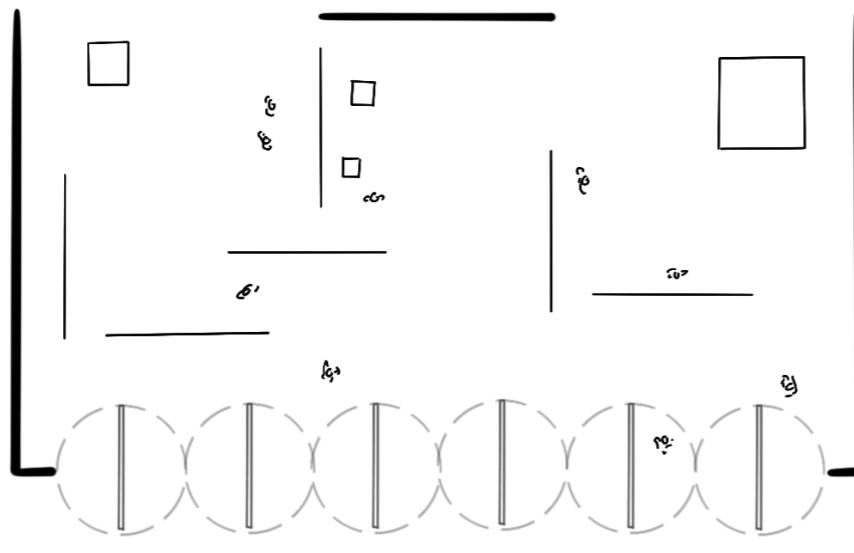


Artificial marmer
Mosaic

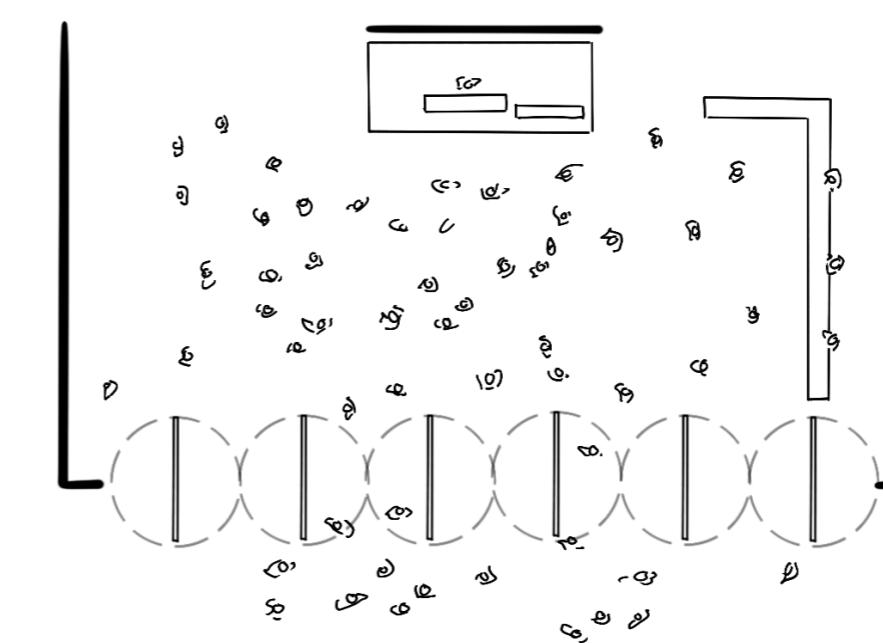


FLEXIBILITY

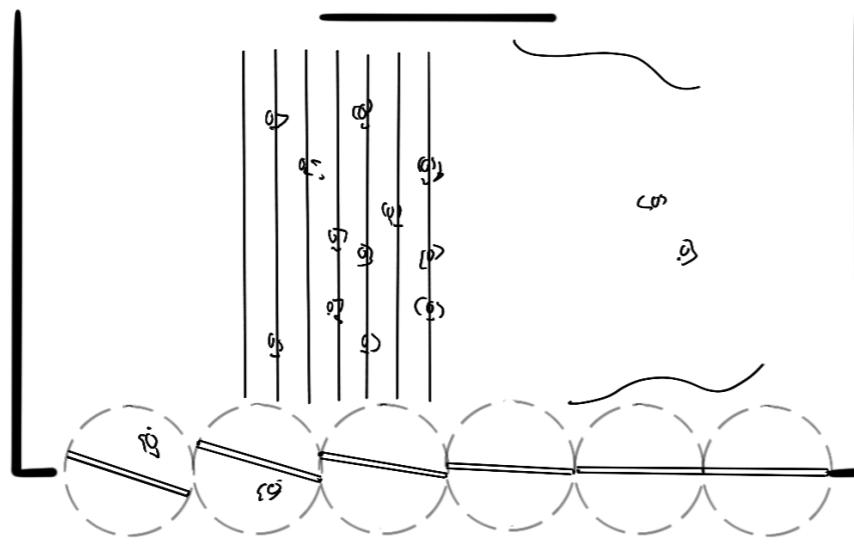
Expo



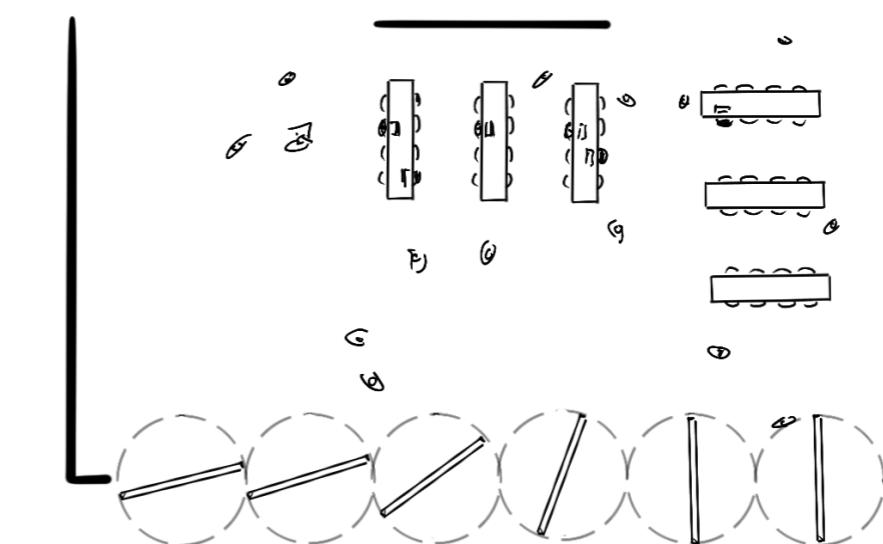
Event



Listen

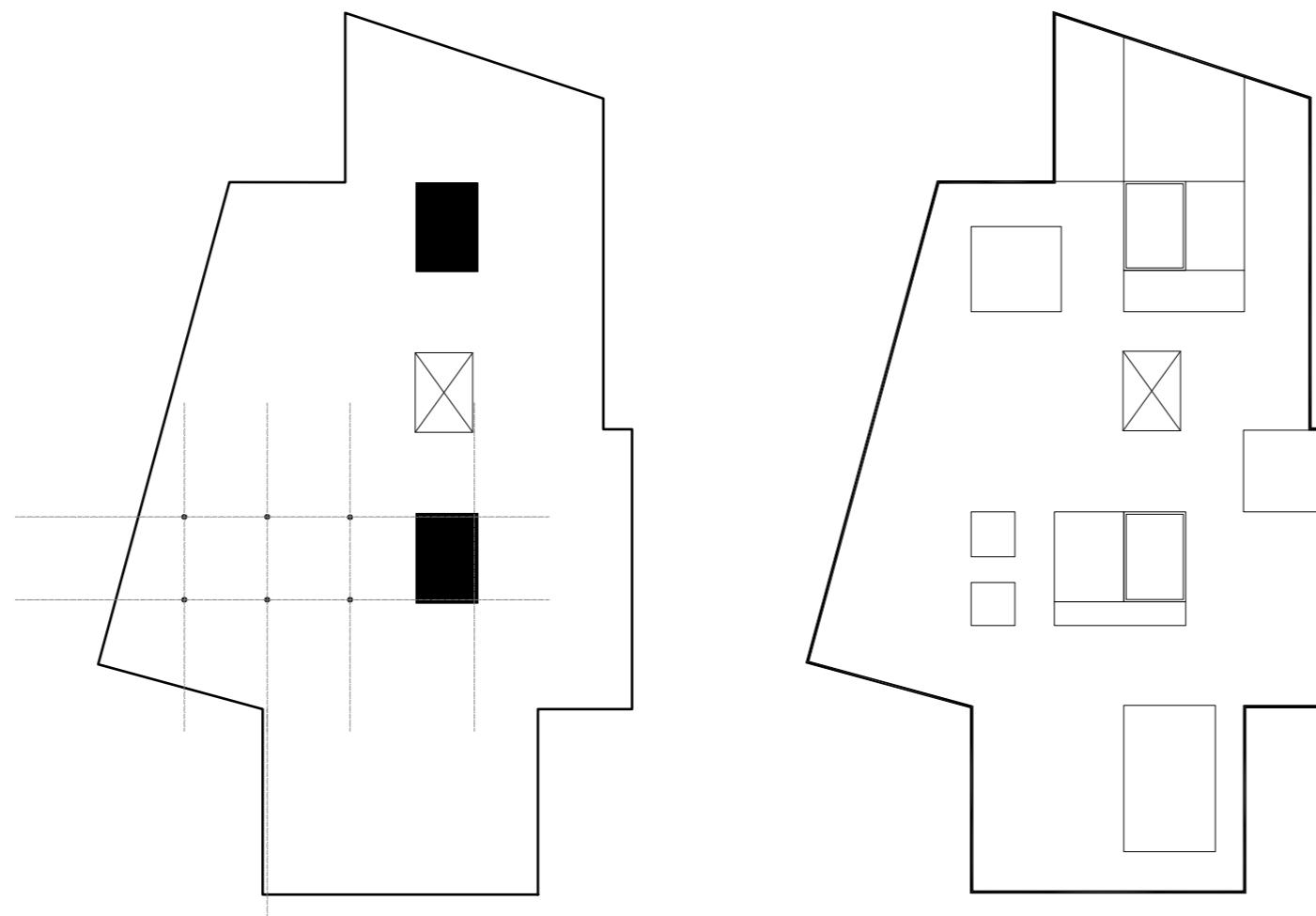


Study



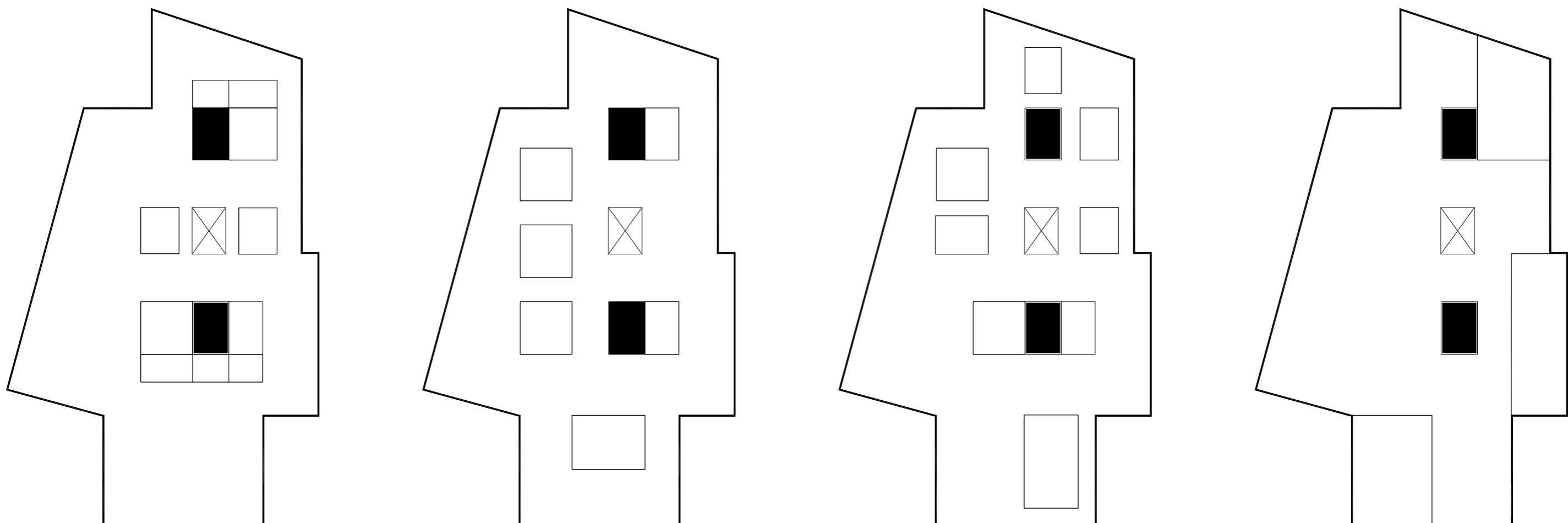
ADAPTABILITY

Long term



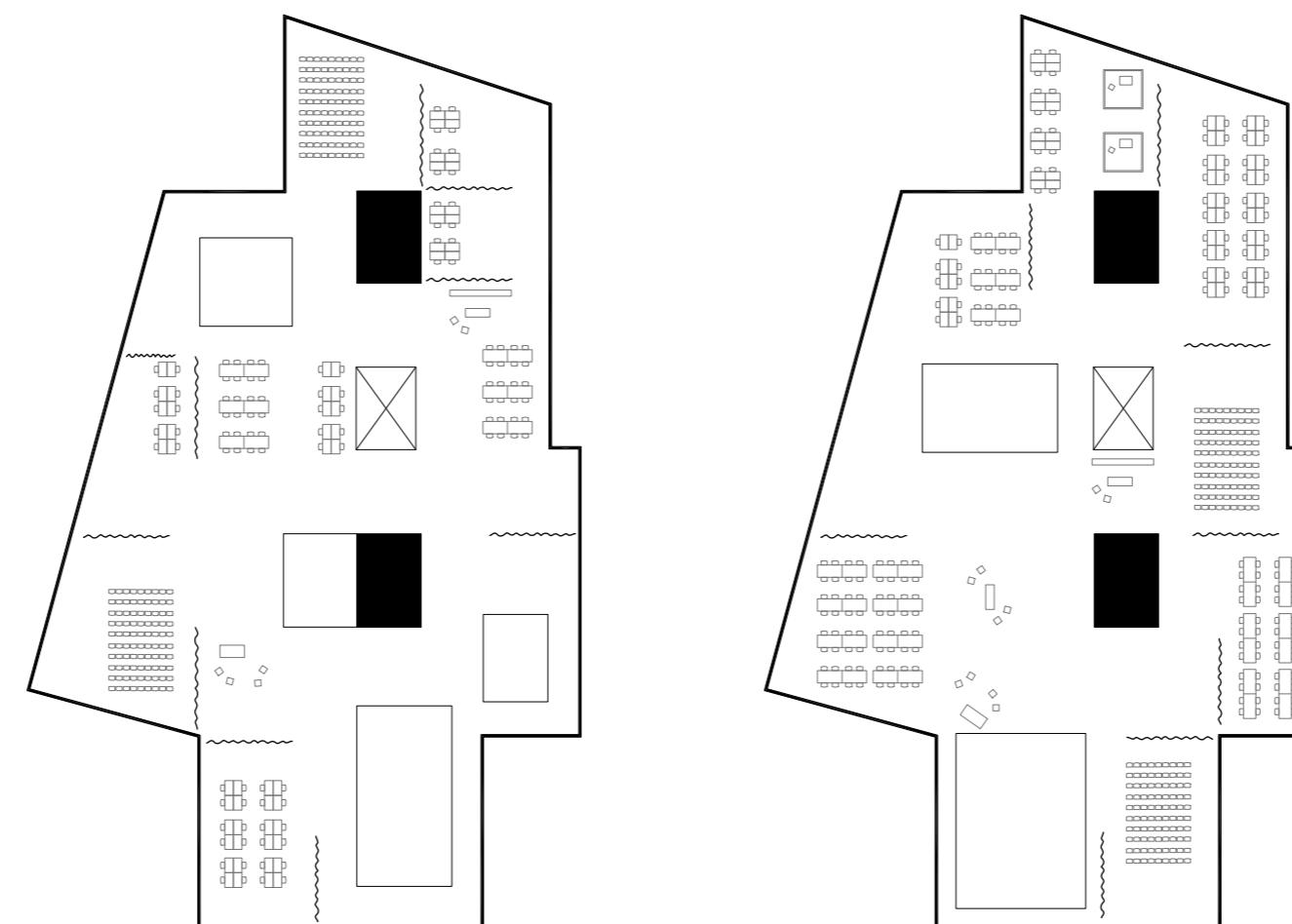
ADAPTABILITY

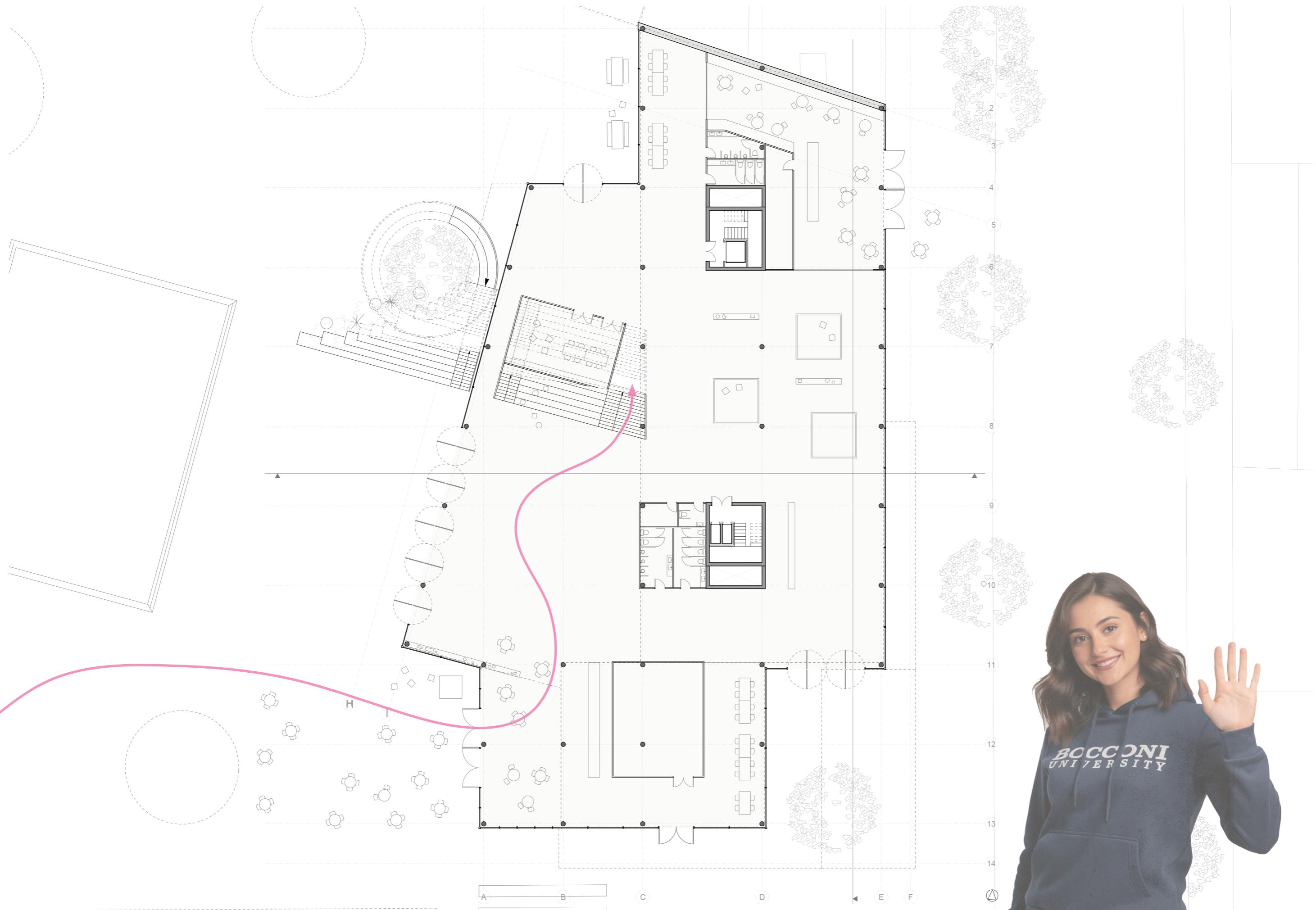
Long term



ADAPTABILITY

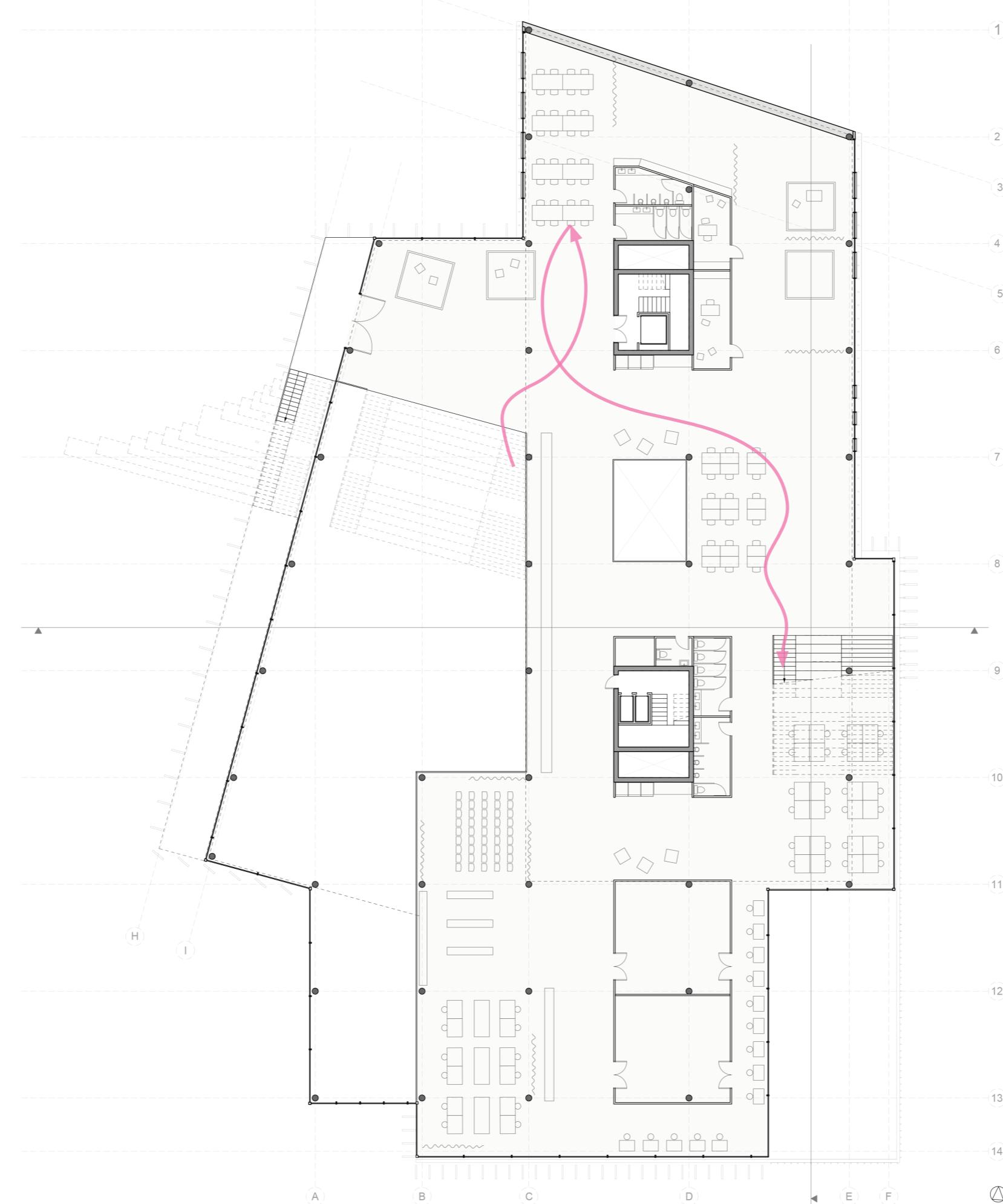
Short term





+1

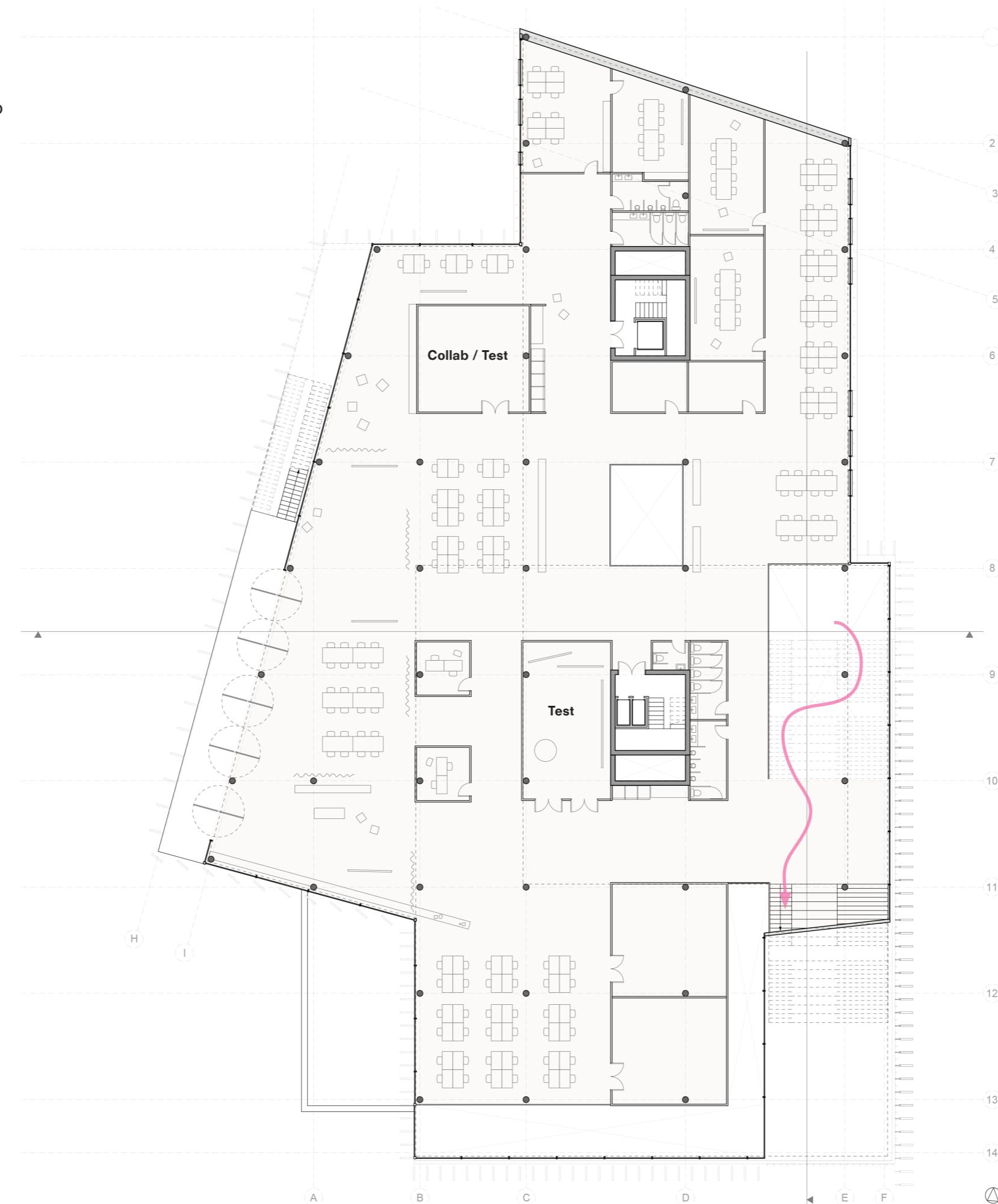
Brainstorm area
Mentor Spaces
Collaborative spaces
Pitch / Event Space
Print / Laser Lab
Workshop Space
Maker Space



See / Think / Do

+2

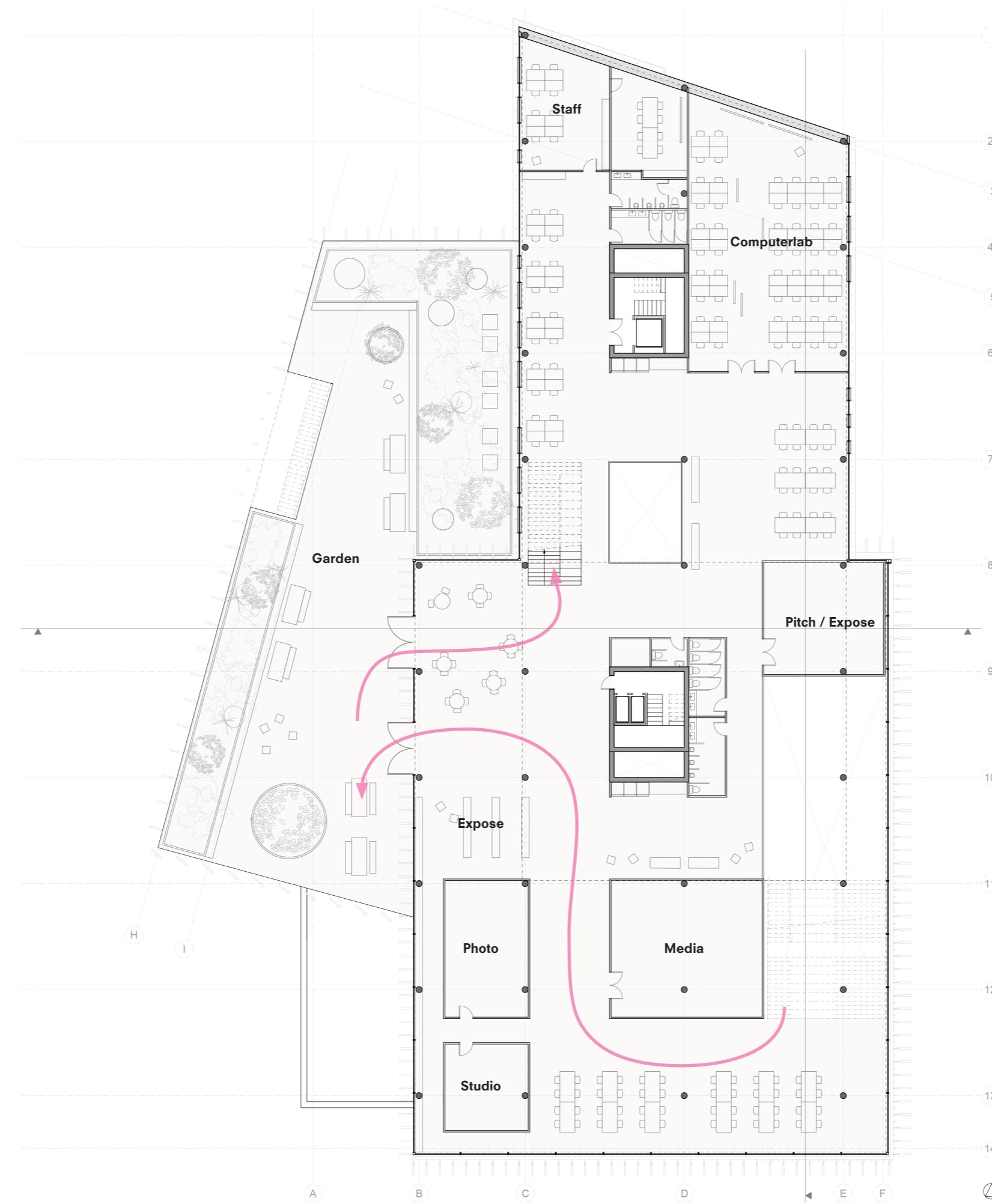
VR and AR lab
Data and Artificial Intelligence lab
Testing Spaces
Meeting spaces
Collaborative spaces



Think / Do

+3

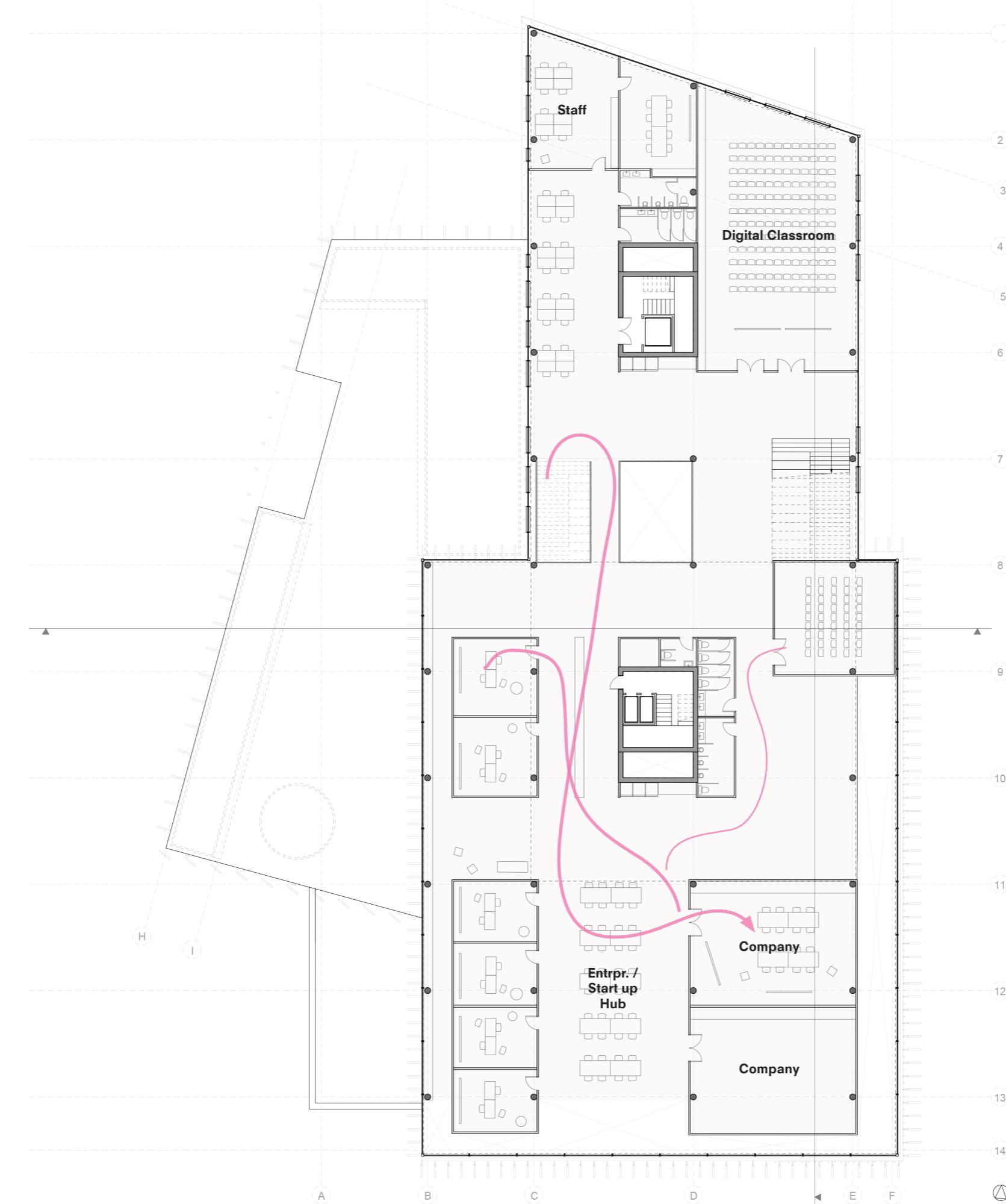
Photo and Film studio
Podcast studio
Movement and Projection studio
Computer lab
Collaborative spaces
Break area
Roof Garden



Think / Do / Grow

+4

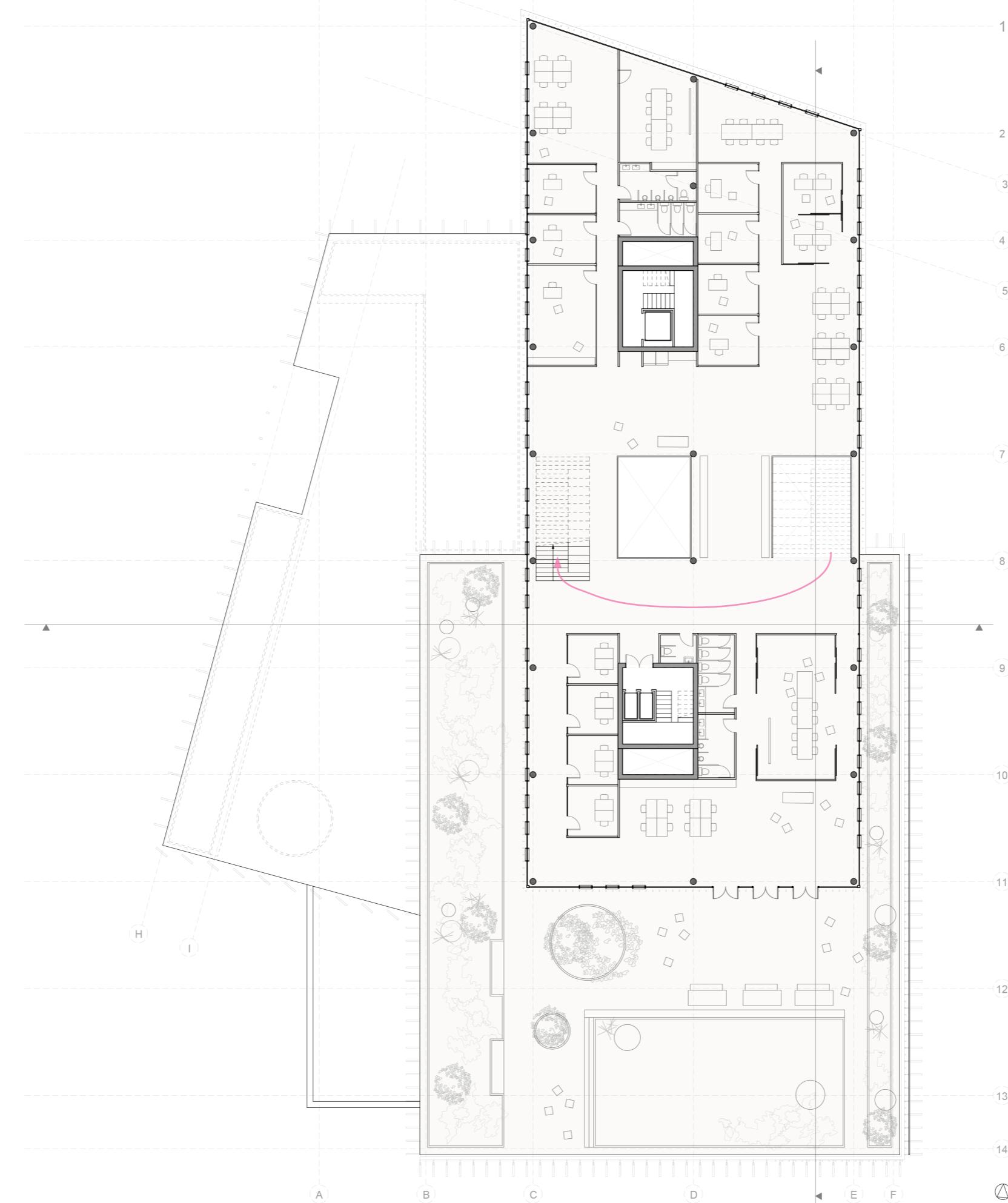
Company spaces
Startup hub
Meeting spaces
Pitch / Event space
Digital classroom



Grow

+5

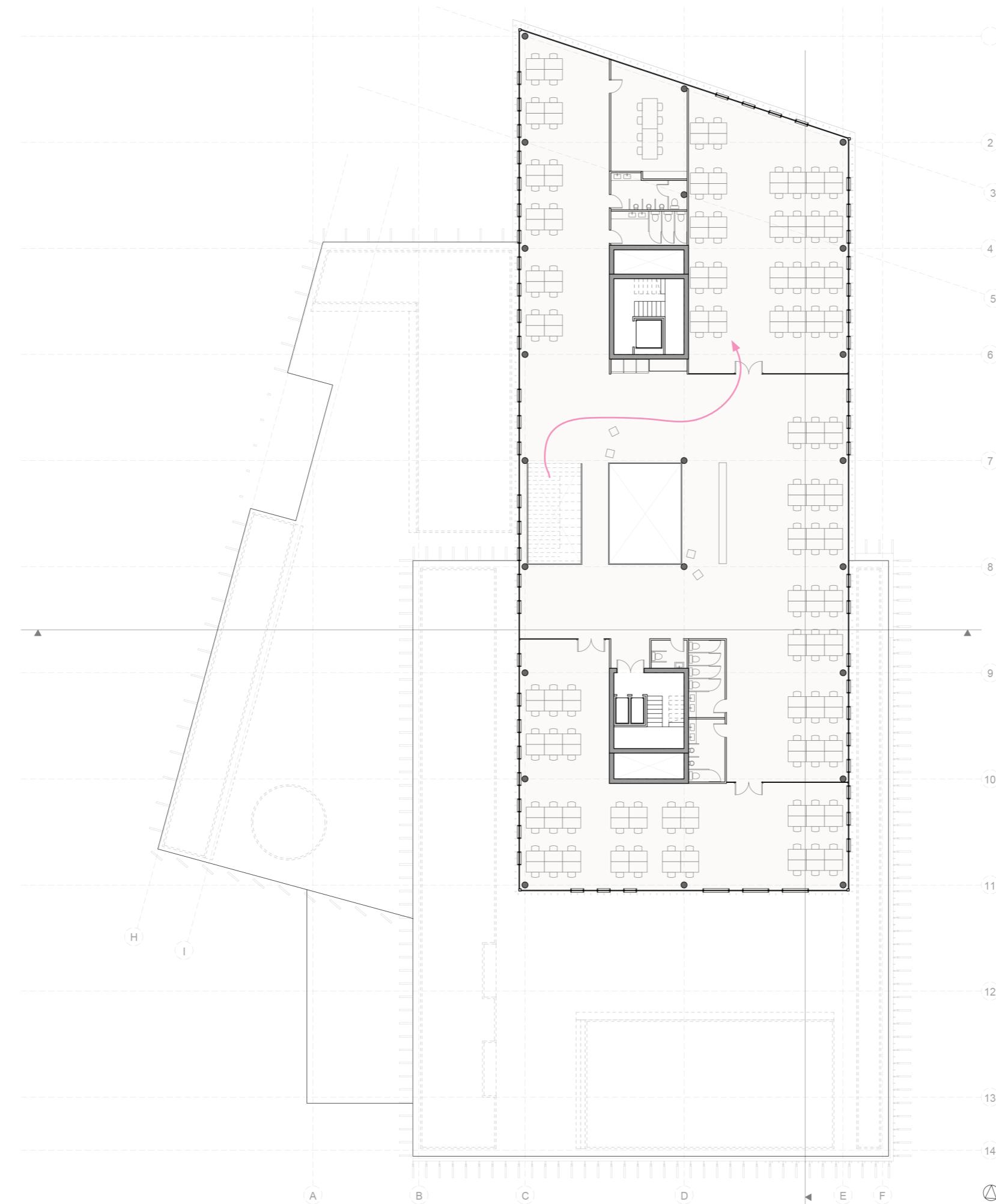
Office space
Management



Staff / Offices

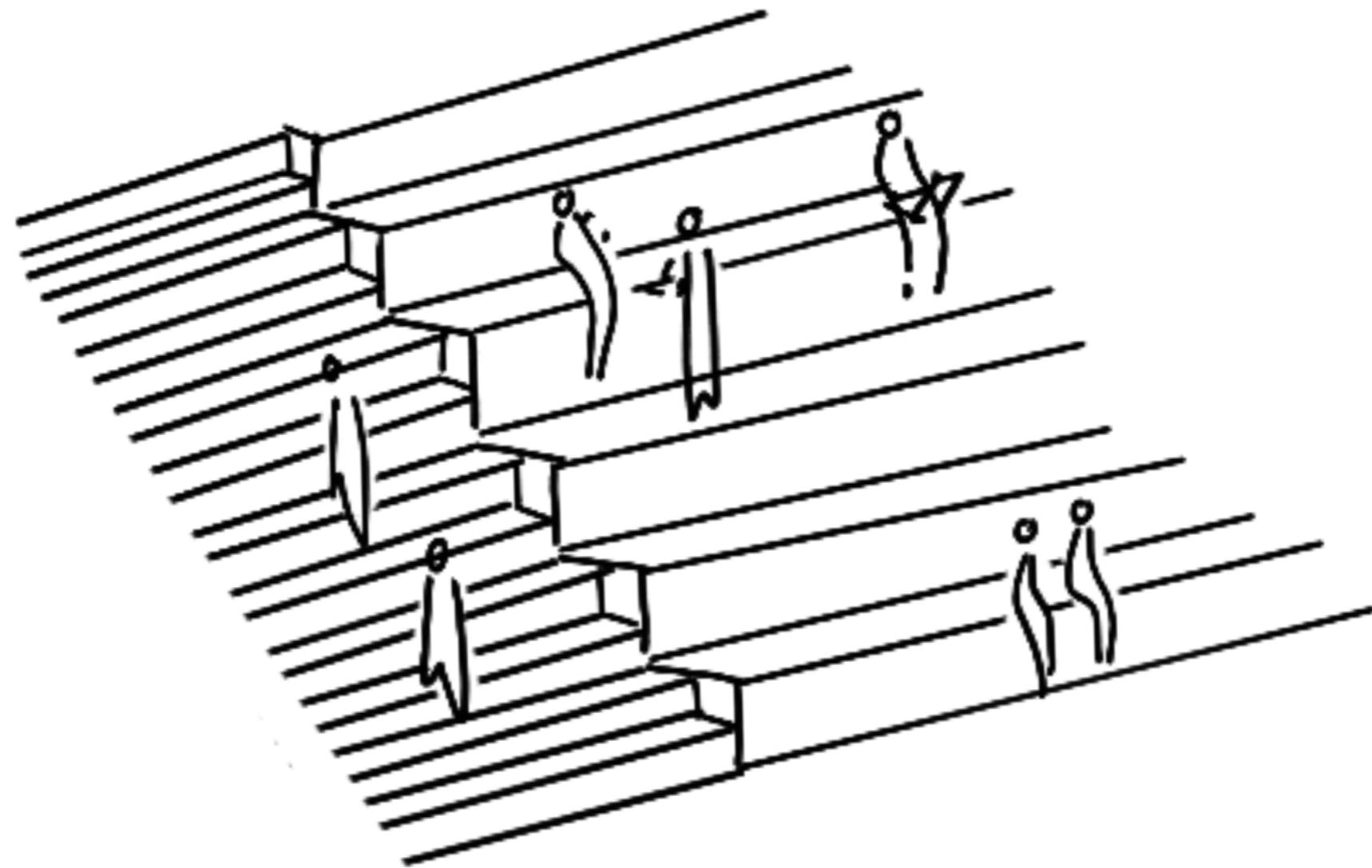
+6

Quiet zones
Focused Study spaces

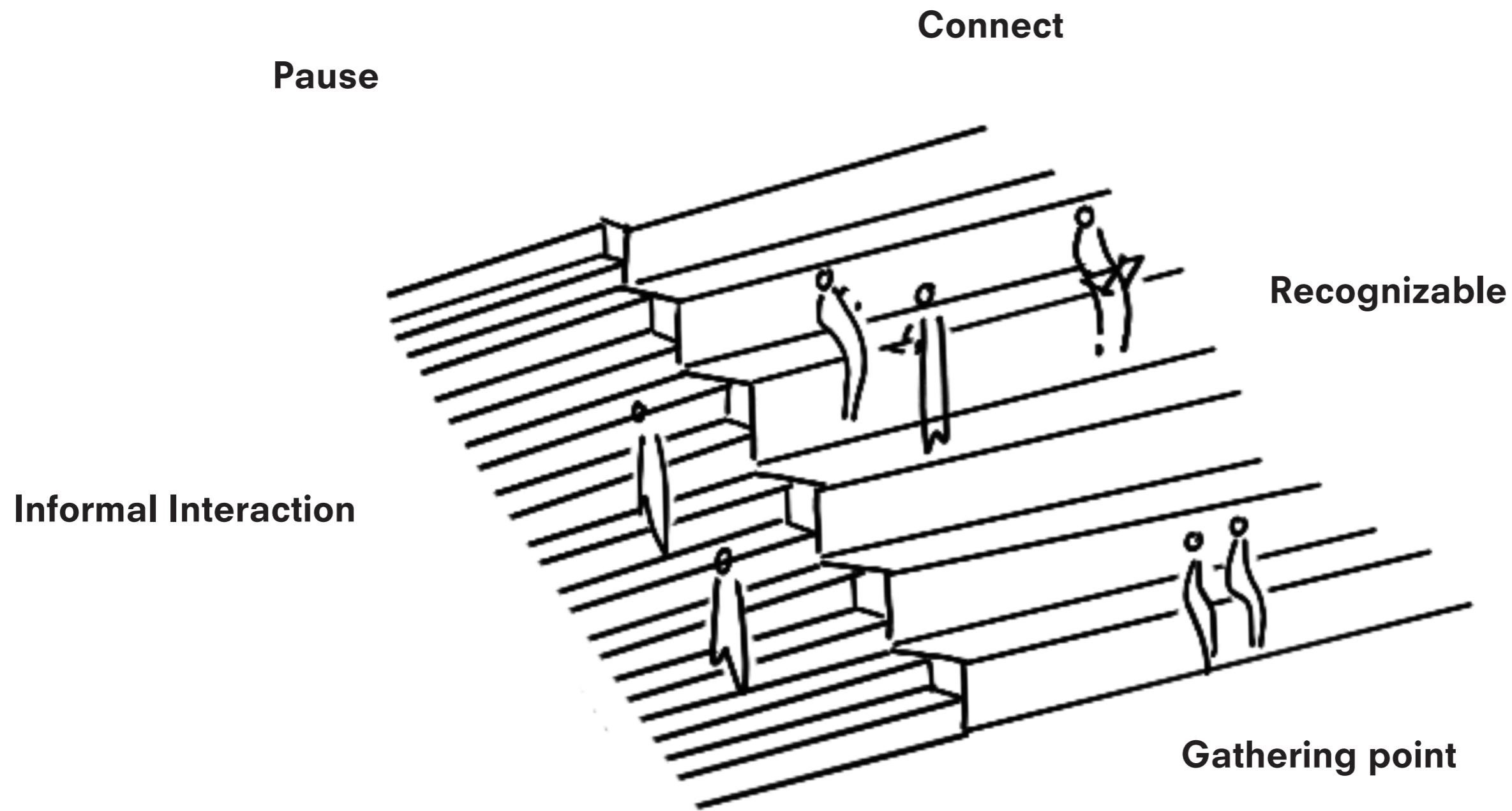


Focus

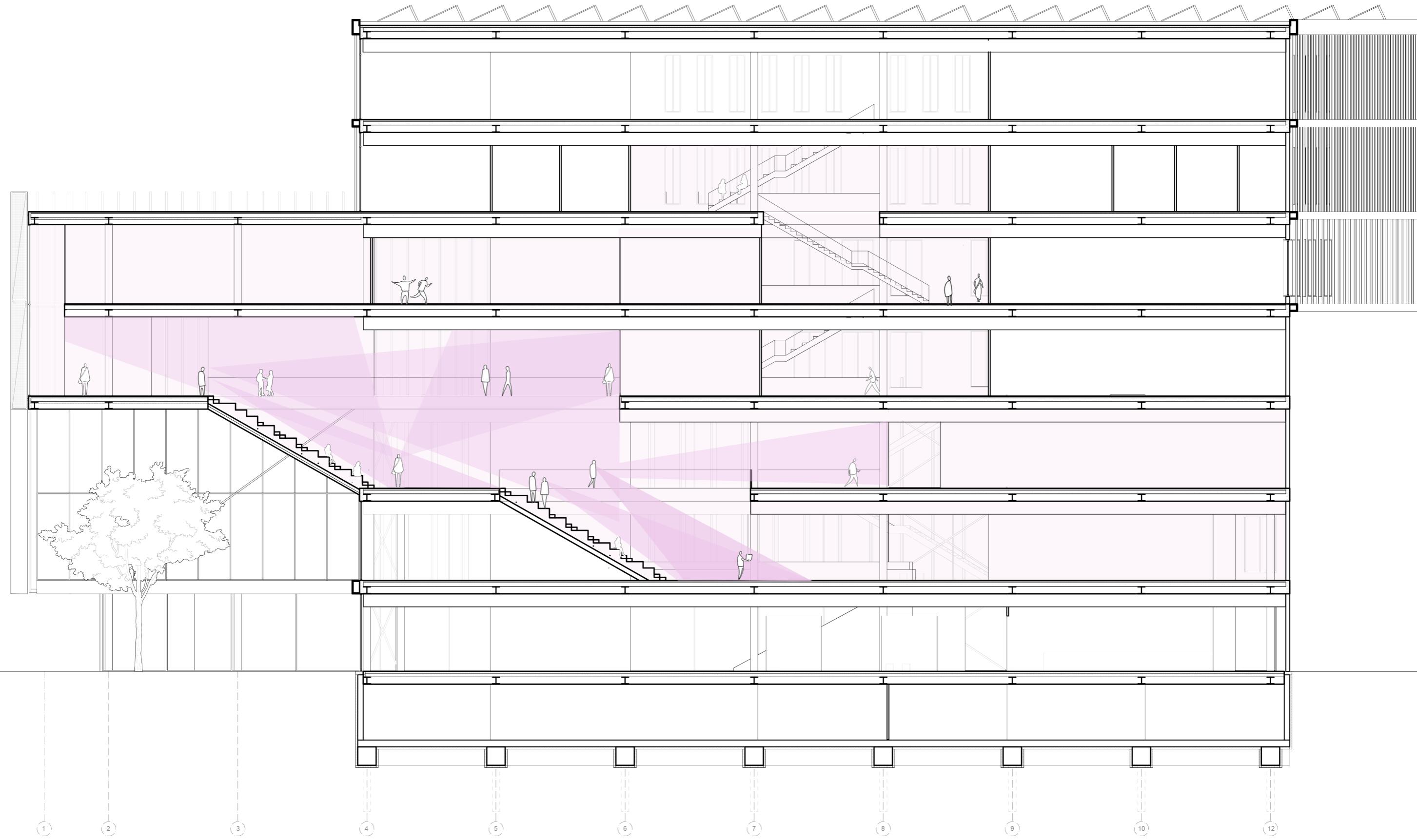




Stairs intended as social spaces



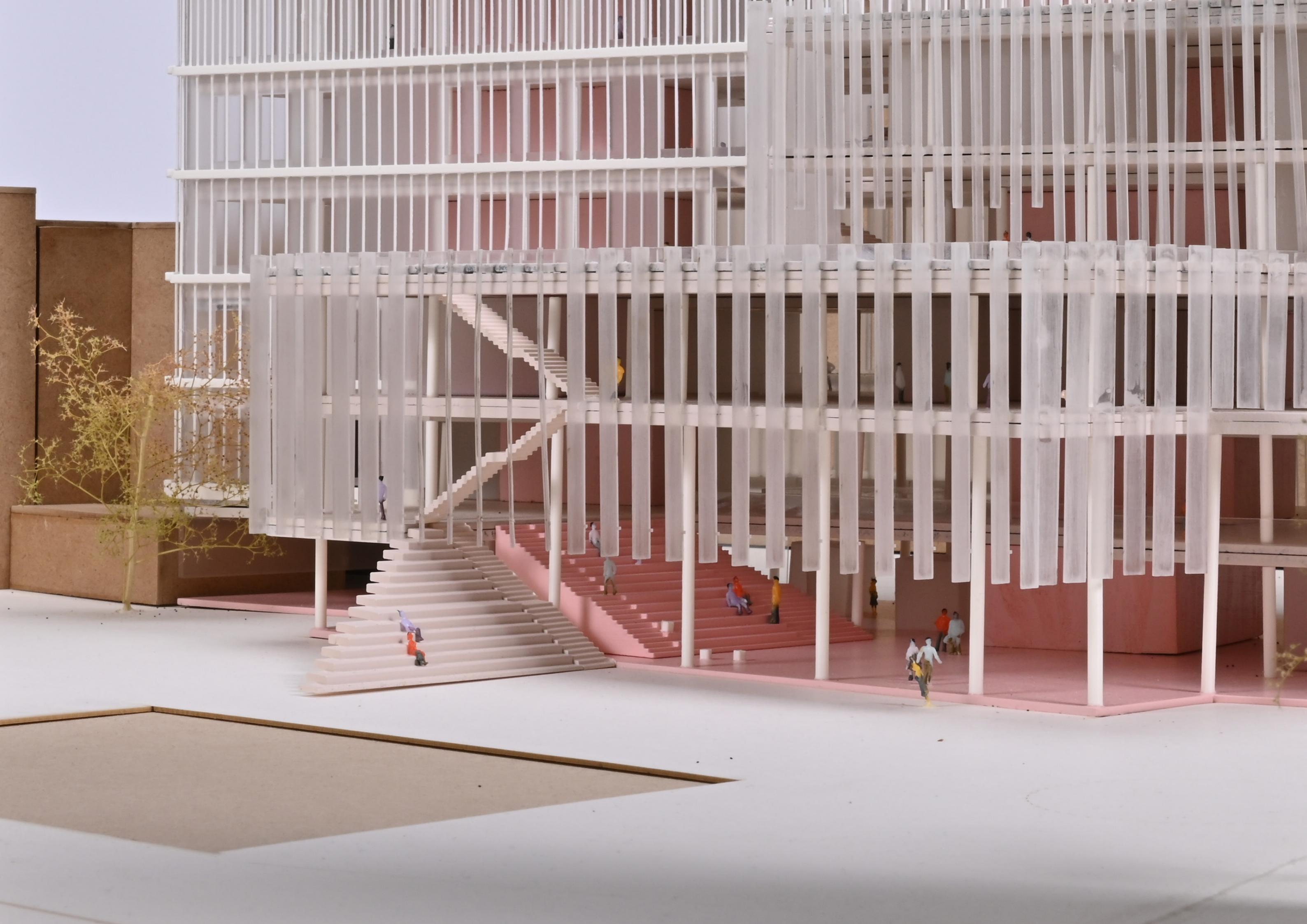
Stairs intended as social spaces



Stairs as the layer between building and context

Extension of the public space
Connects student to city
Makes flows visible
Reflects buildings liveliness

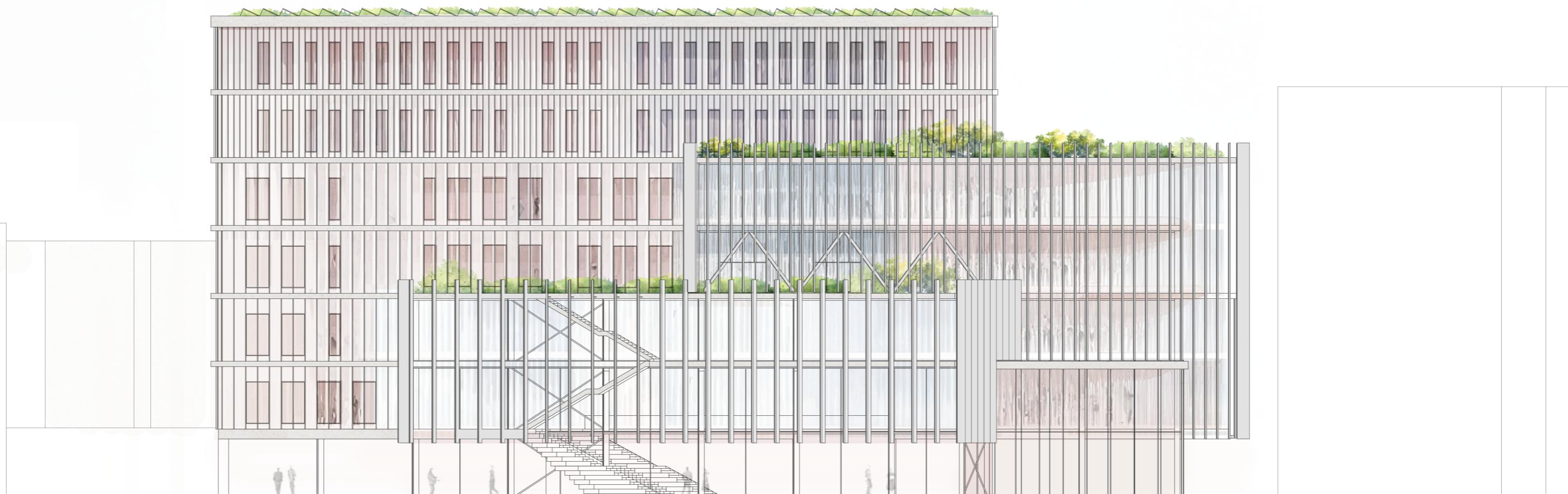




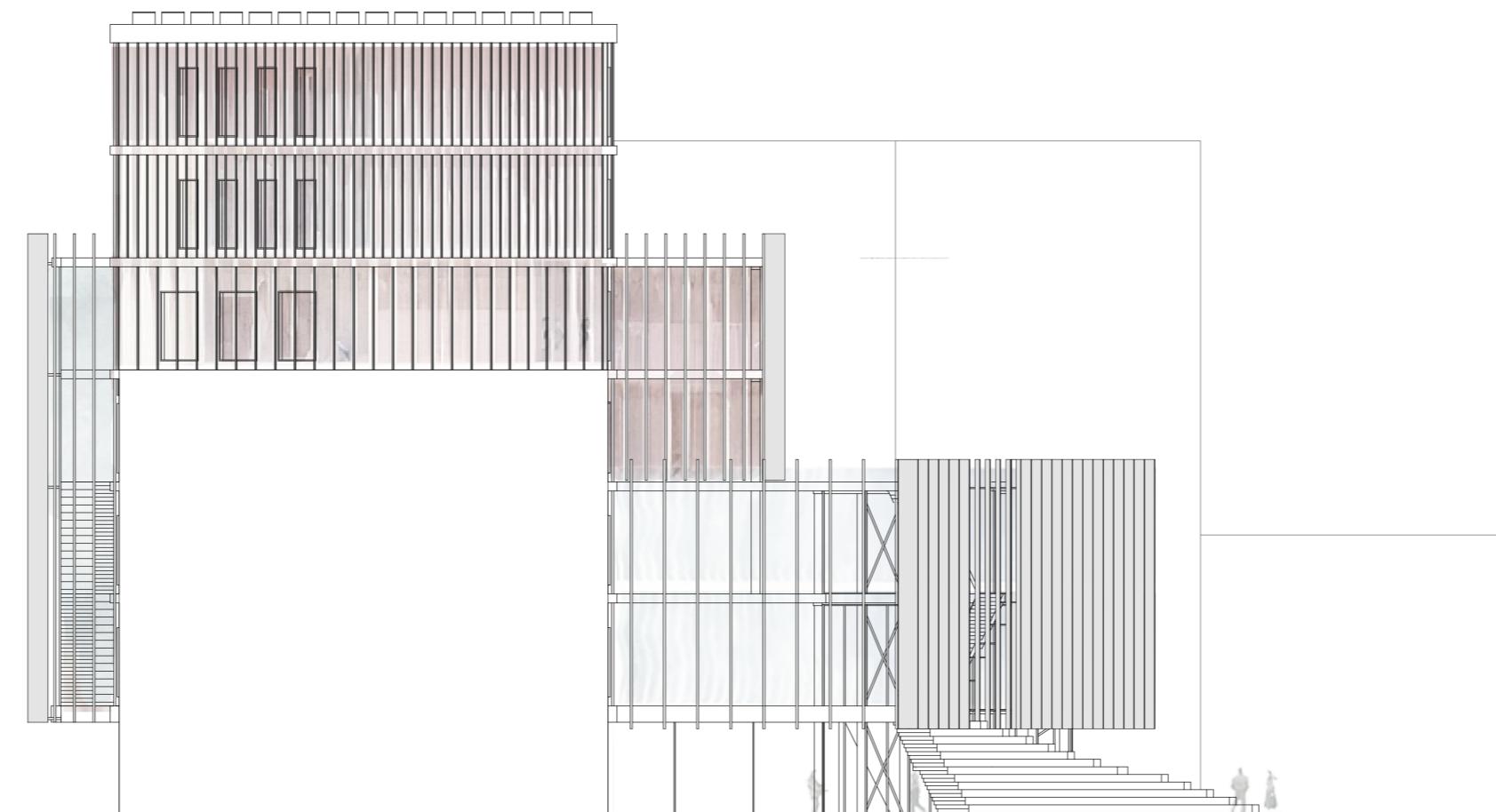
An architectural model of a modern building. The structure features a grid of vertical columns supporting a translucent or glass roof. A central feature is a multi-level staircase with pinkish-red treads. Small, colorful figures of people are scattered throughout the model, some on the stairs and others near the base. To the left, there is a planter with a small, leafy tree. The overall aesthetic is clean and minimalist.

TRANSPARANCY
CONTINUITY
CONNECTING

West



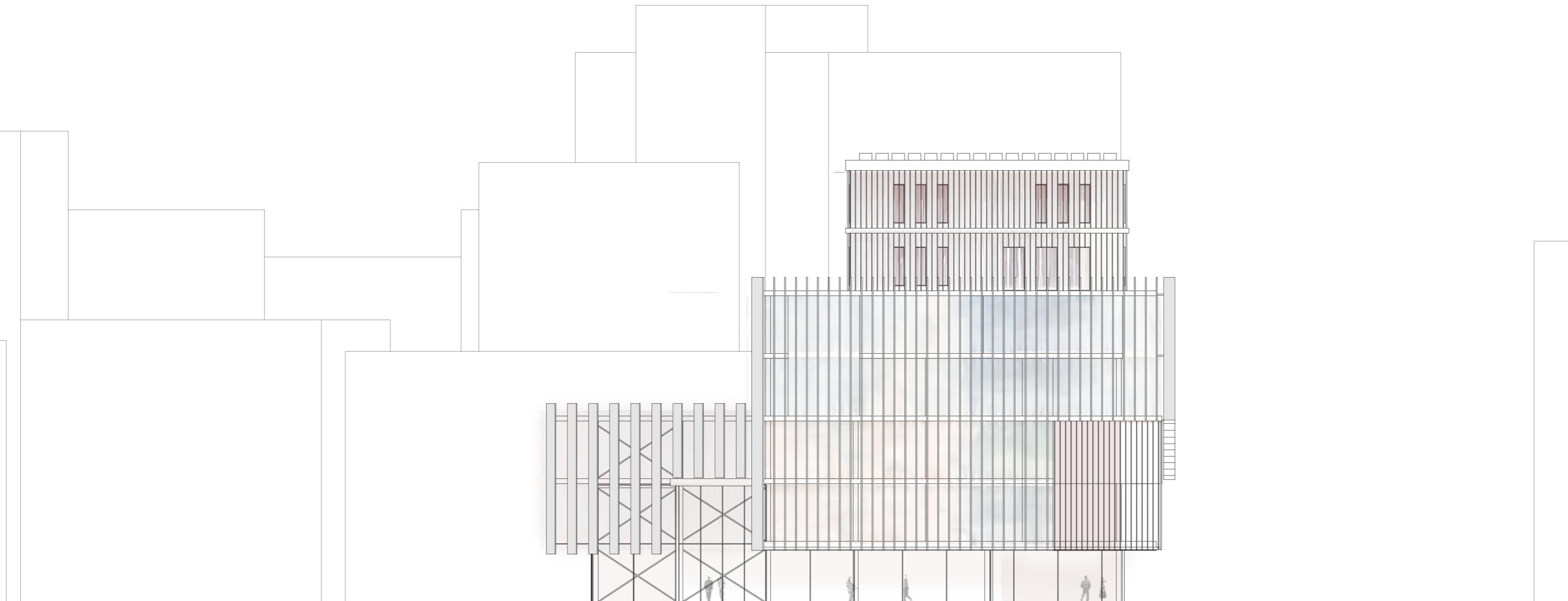
North



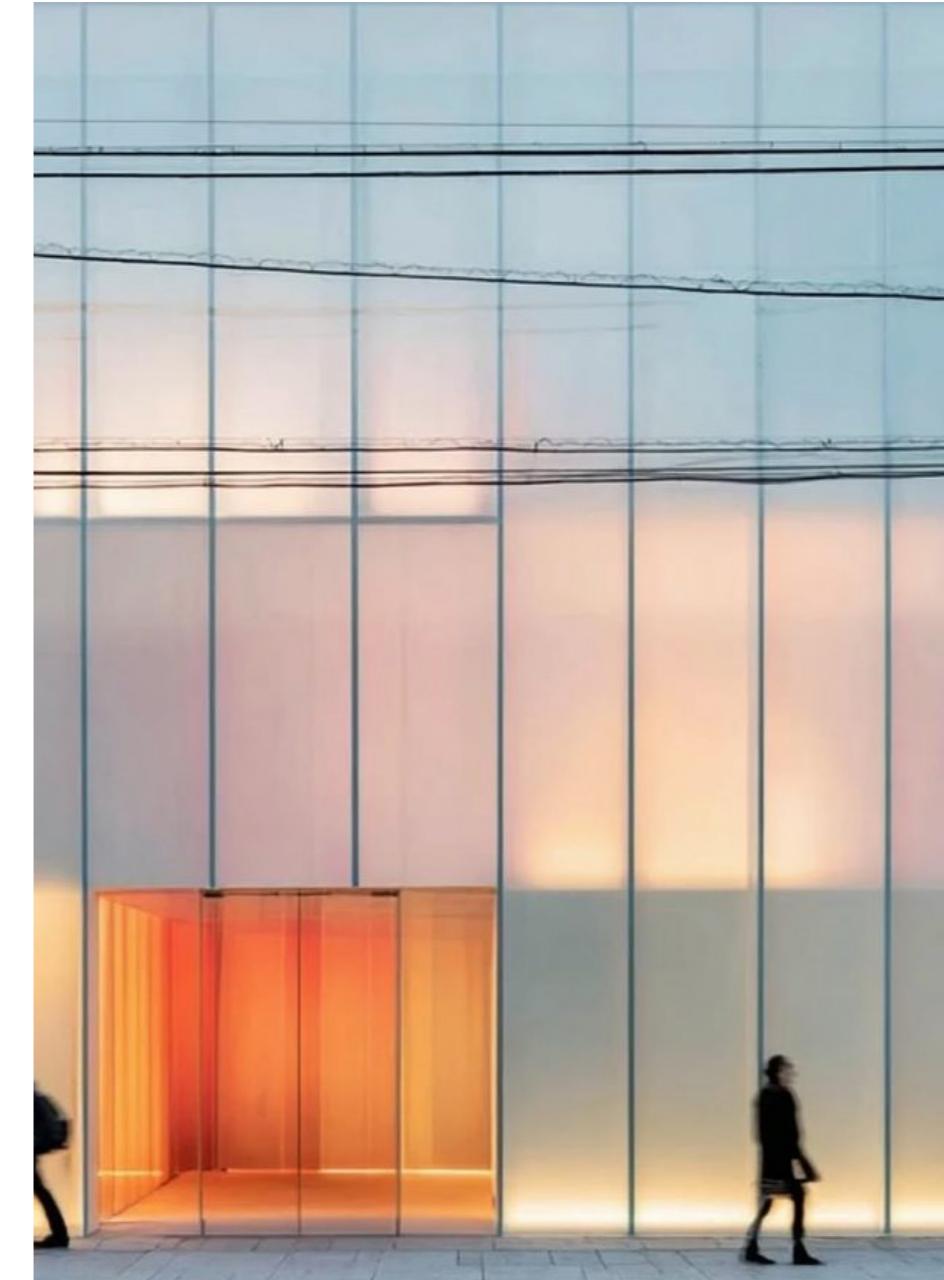
East



South



MATERIALITY



Facade as a living filter

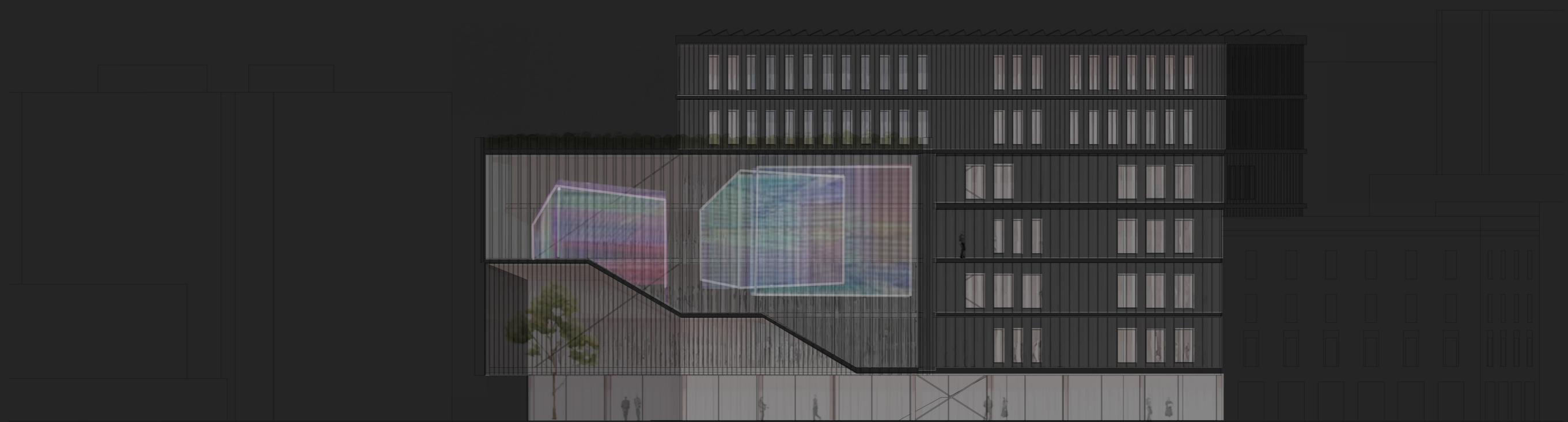
Rhythm of movement

Vertical slats

Projection

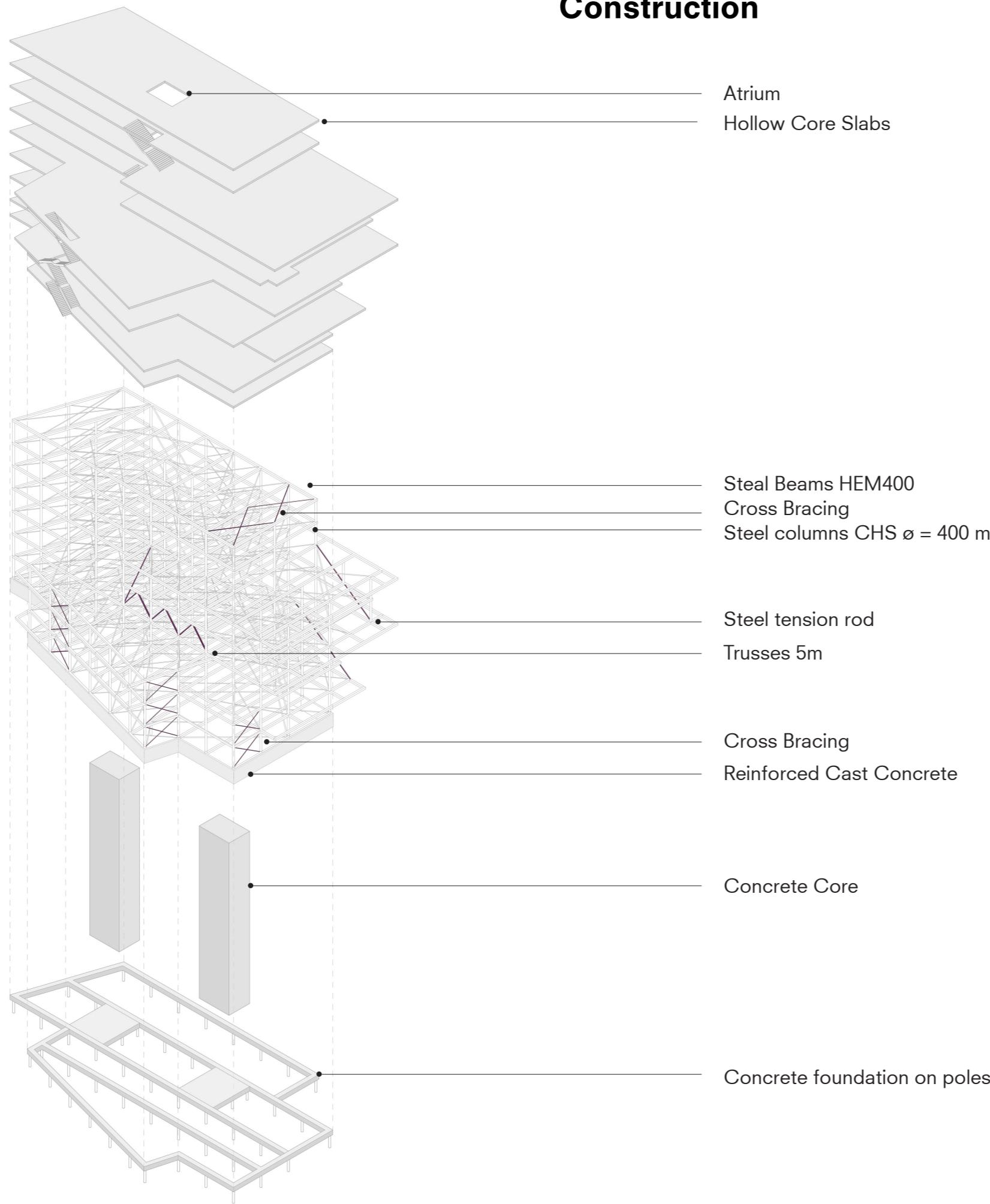
Ever Changing

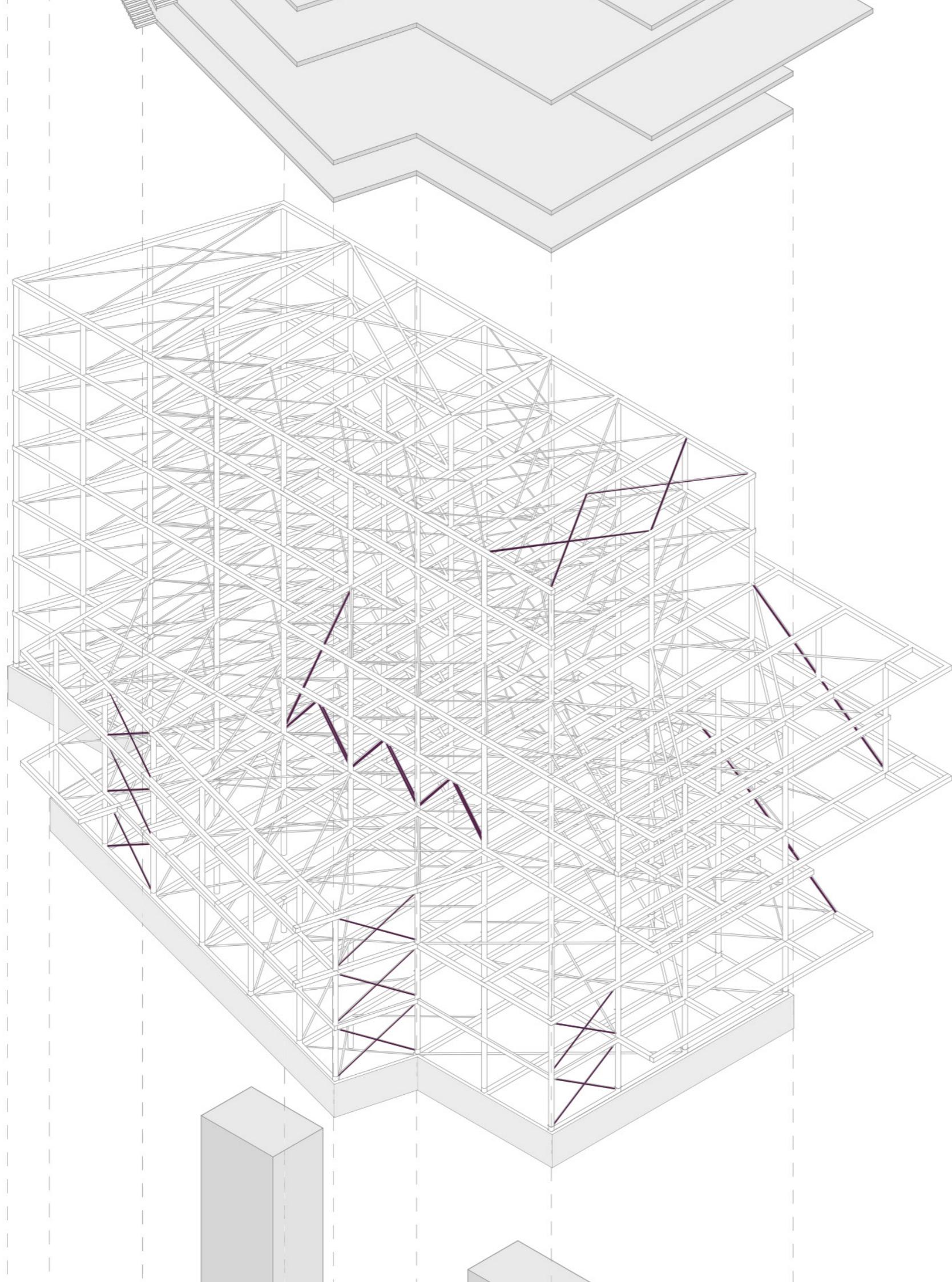






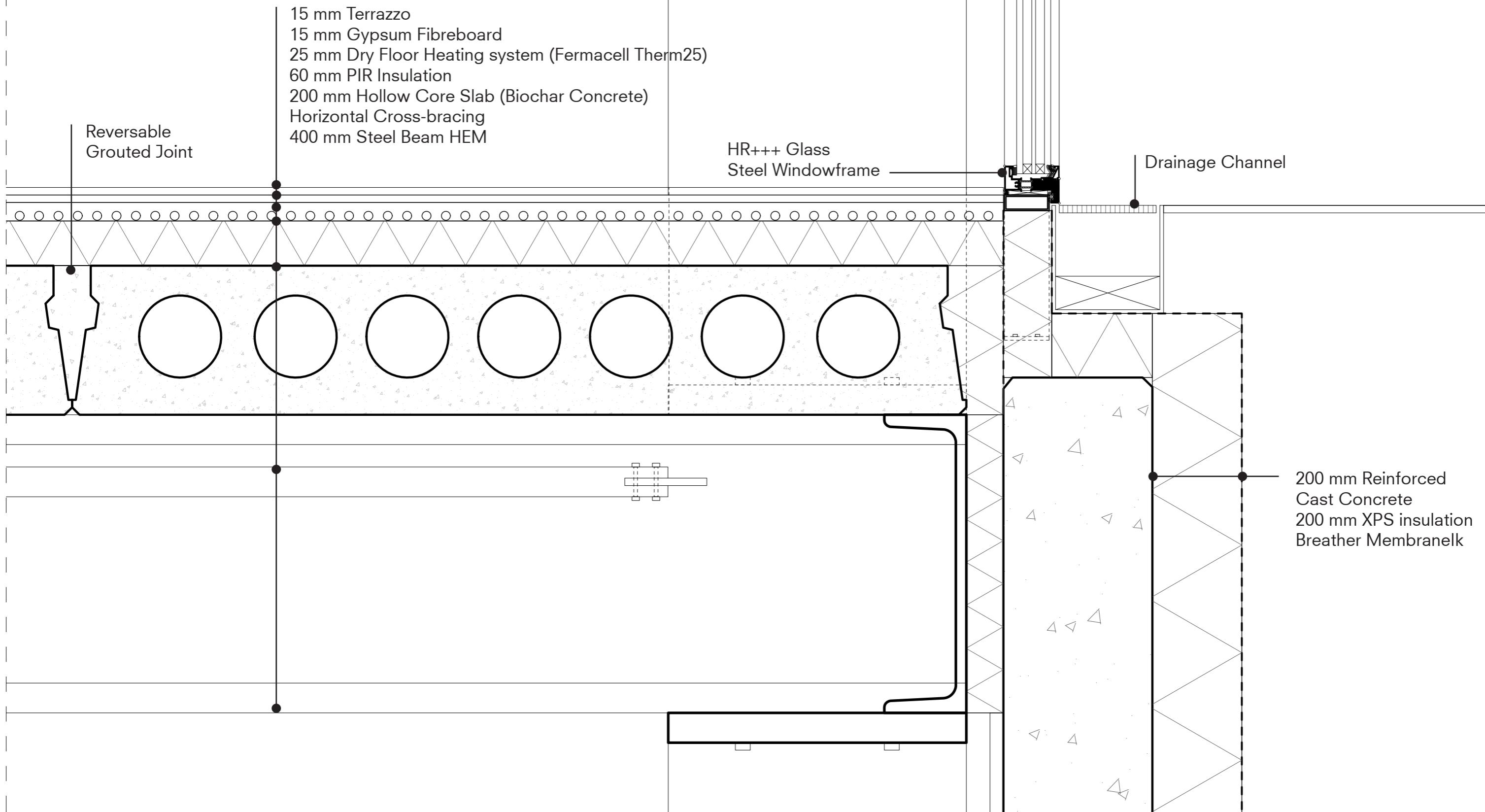
Construction





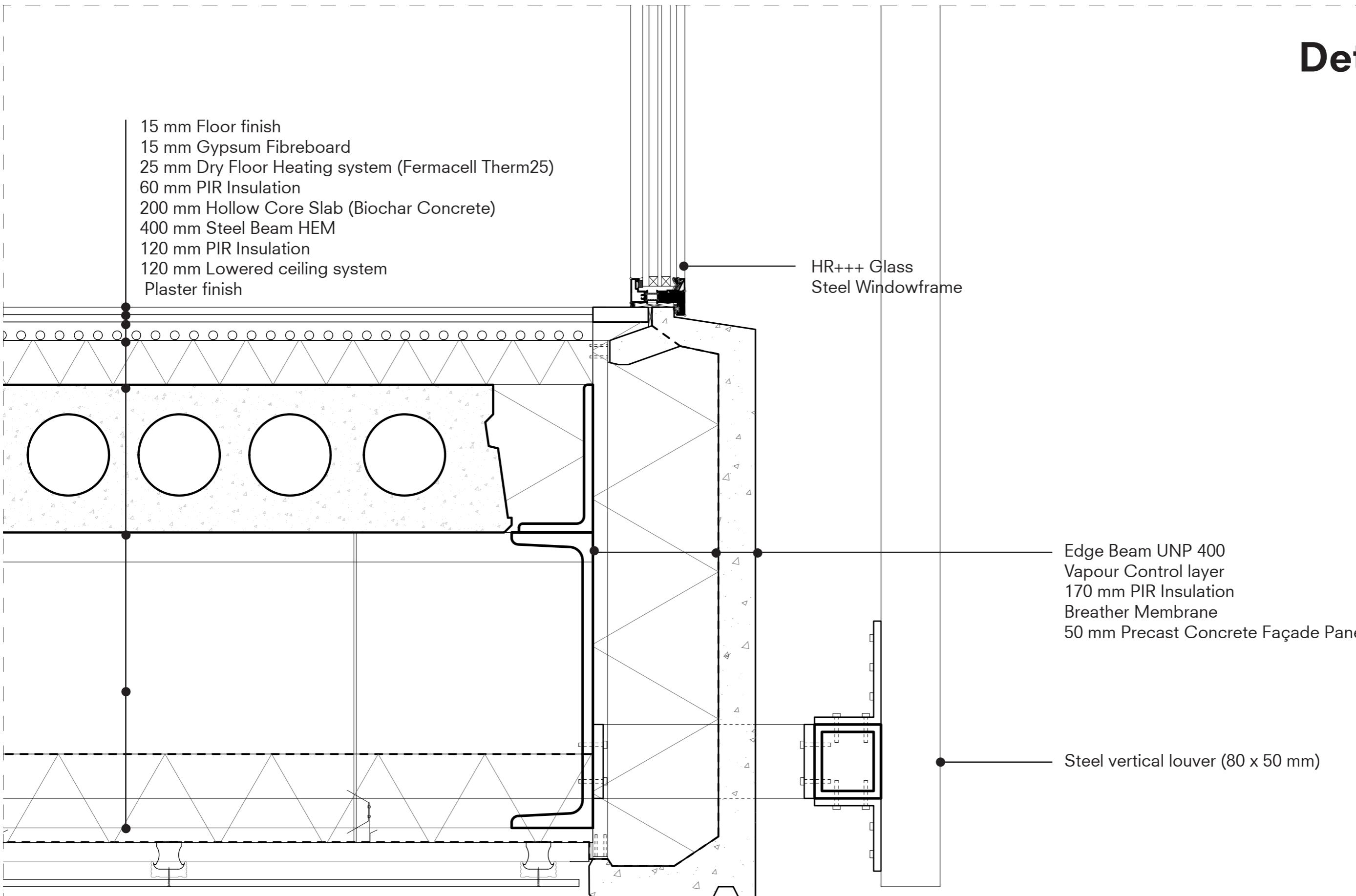
Detail 1

1:5



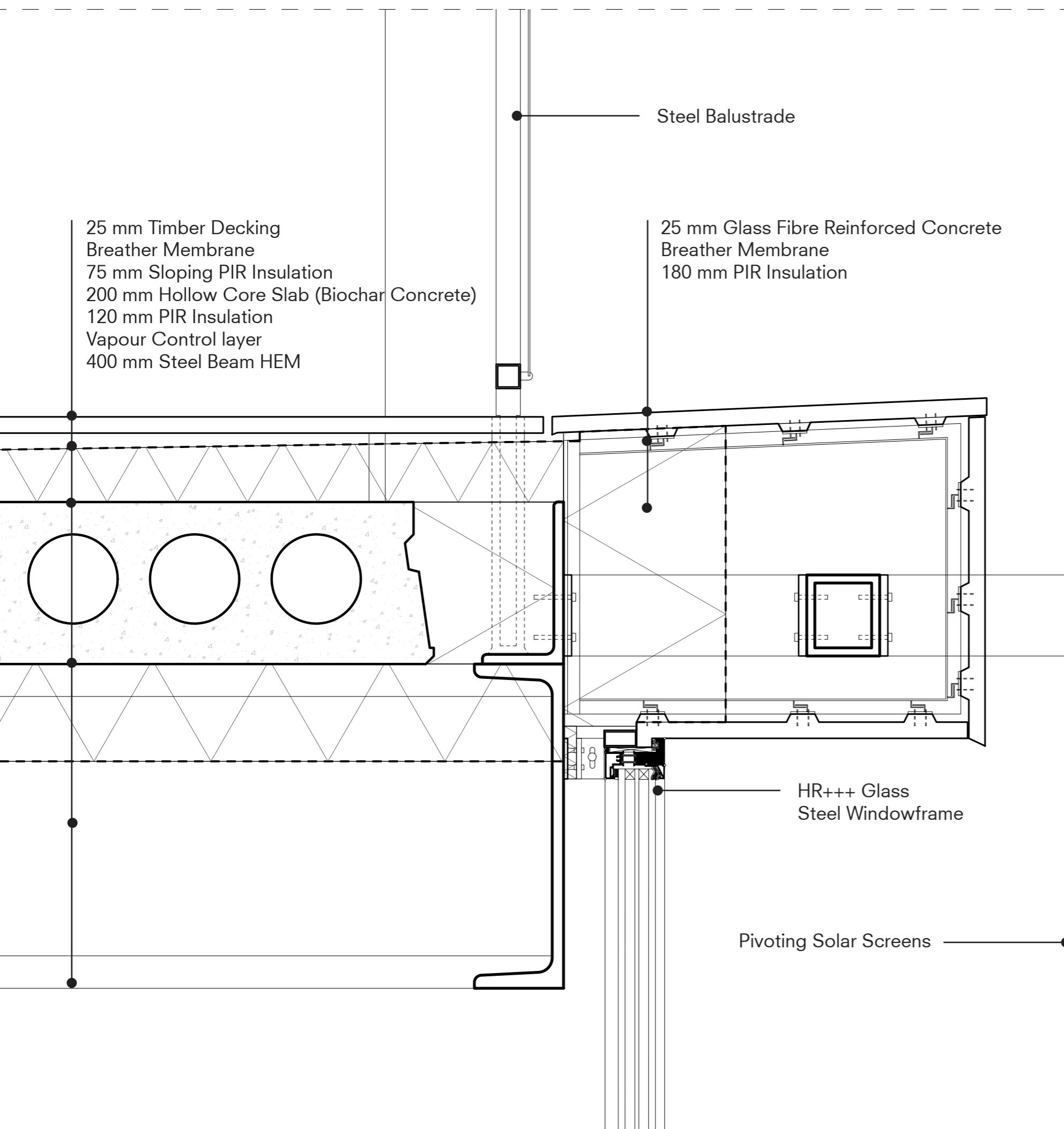
Detail 2

1:5



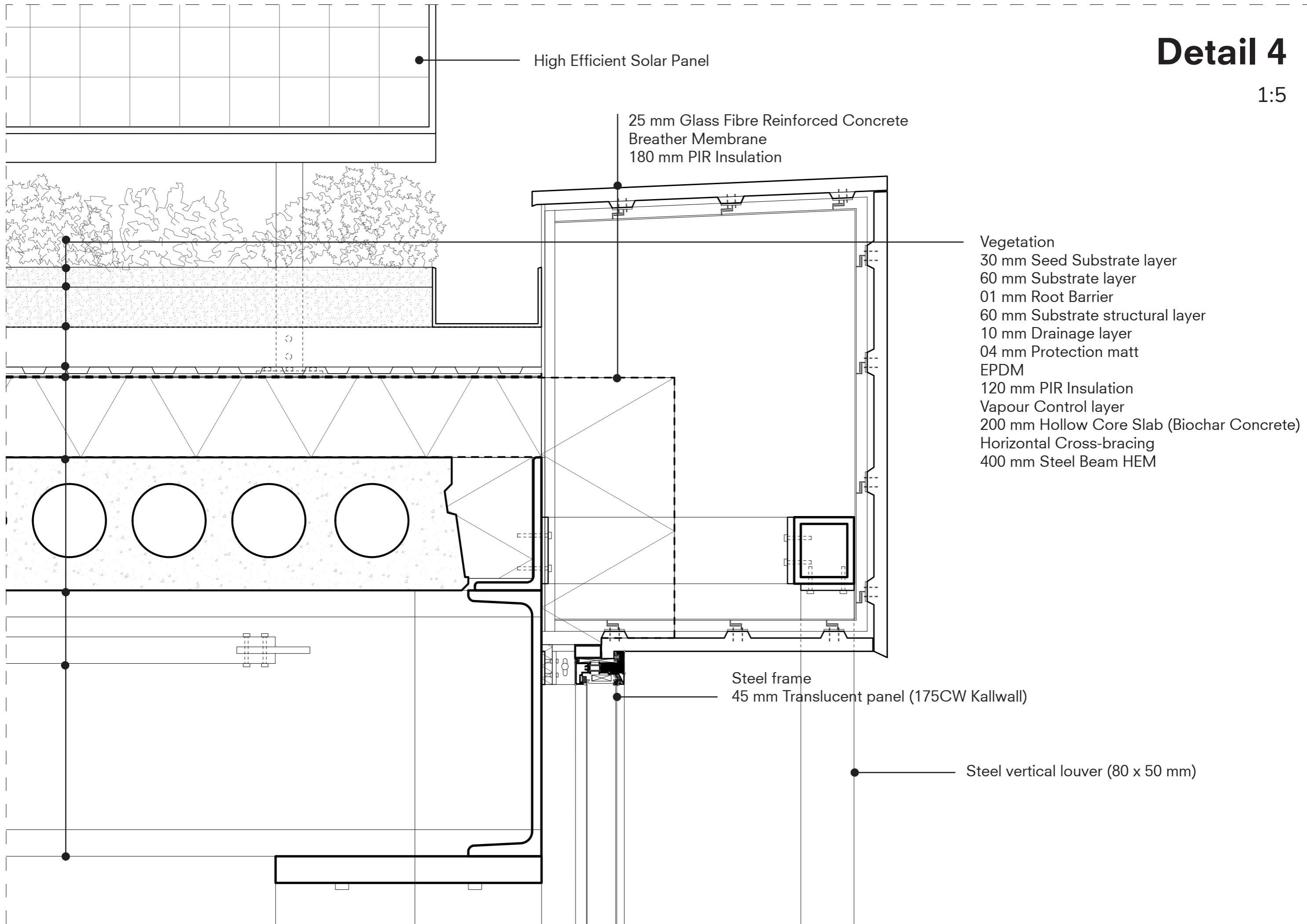
Detail 3

1:5



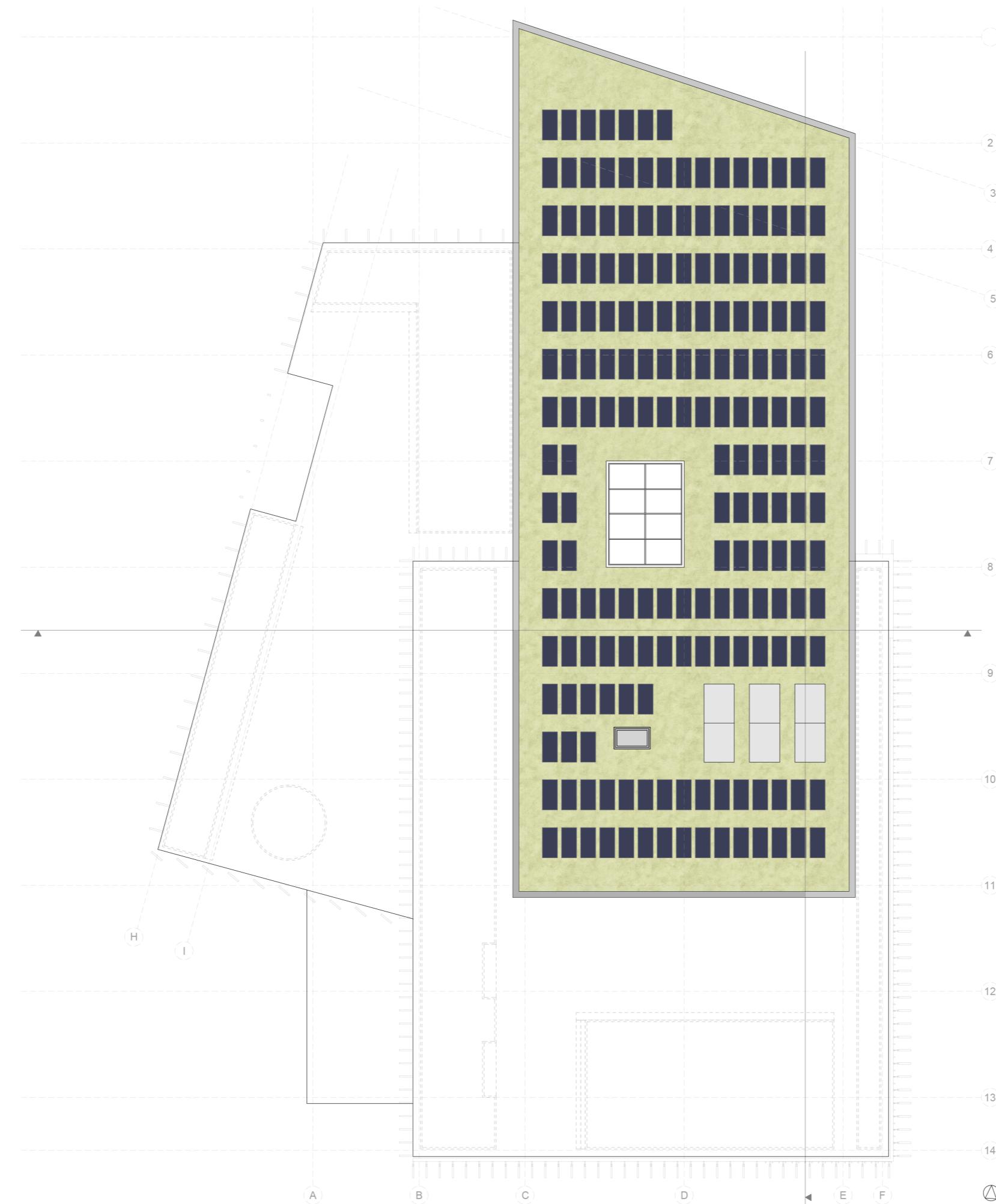
Detail 4

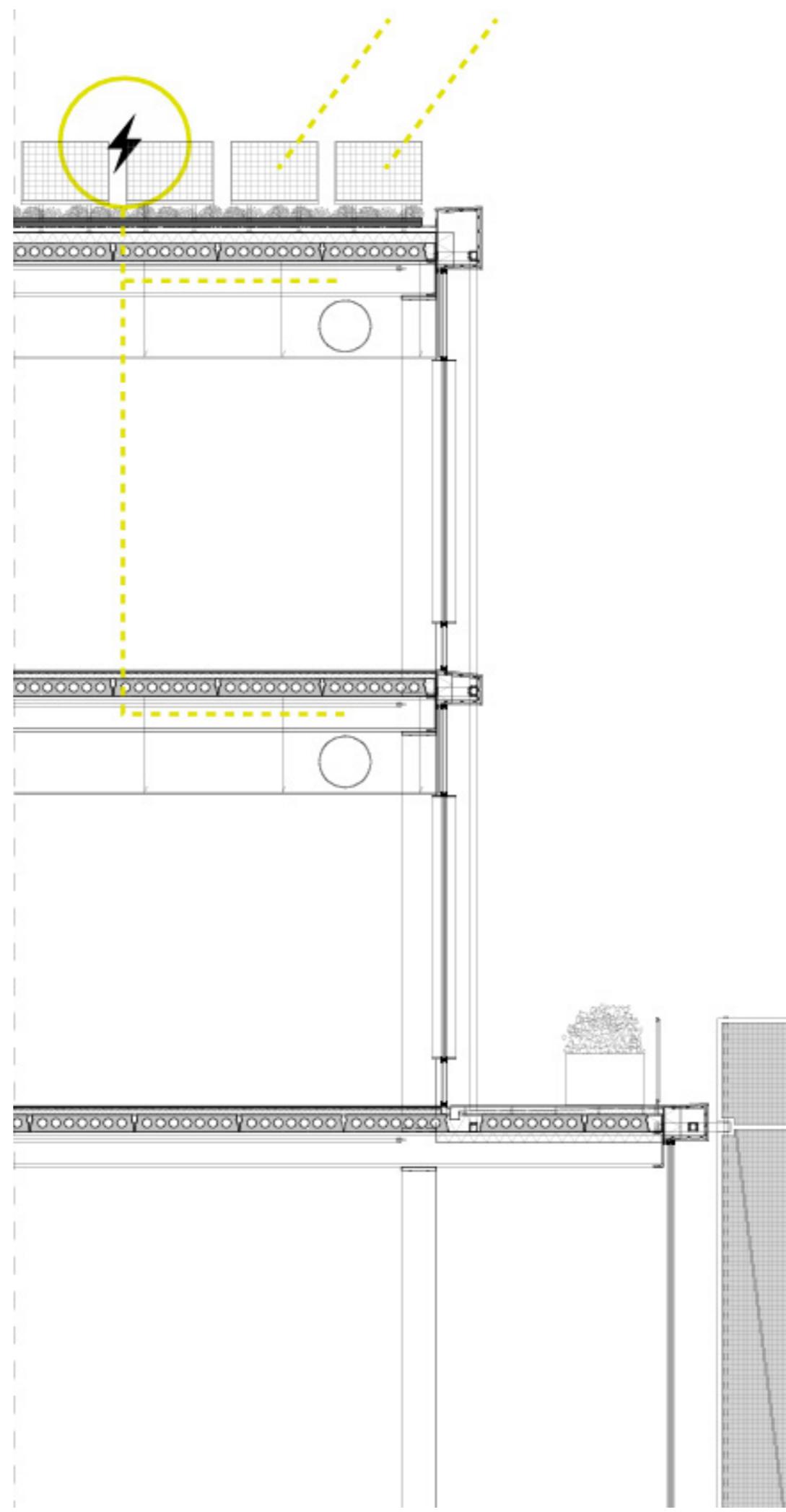
1:5

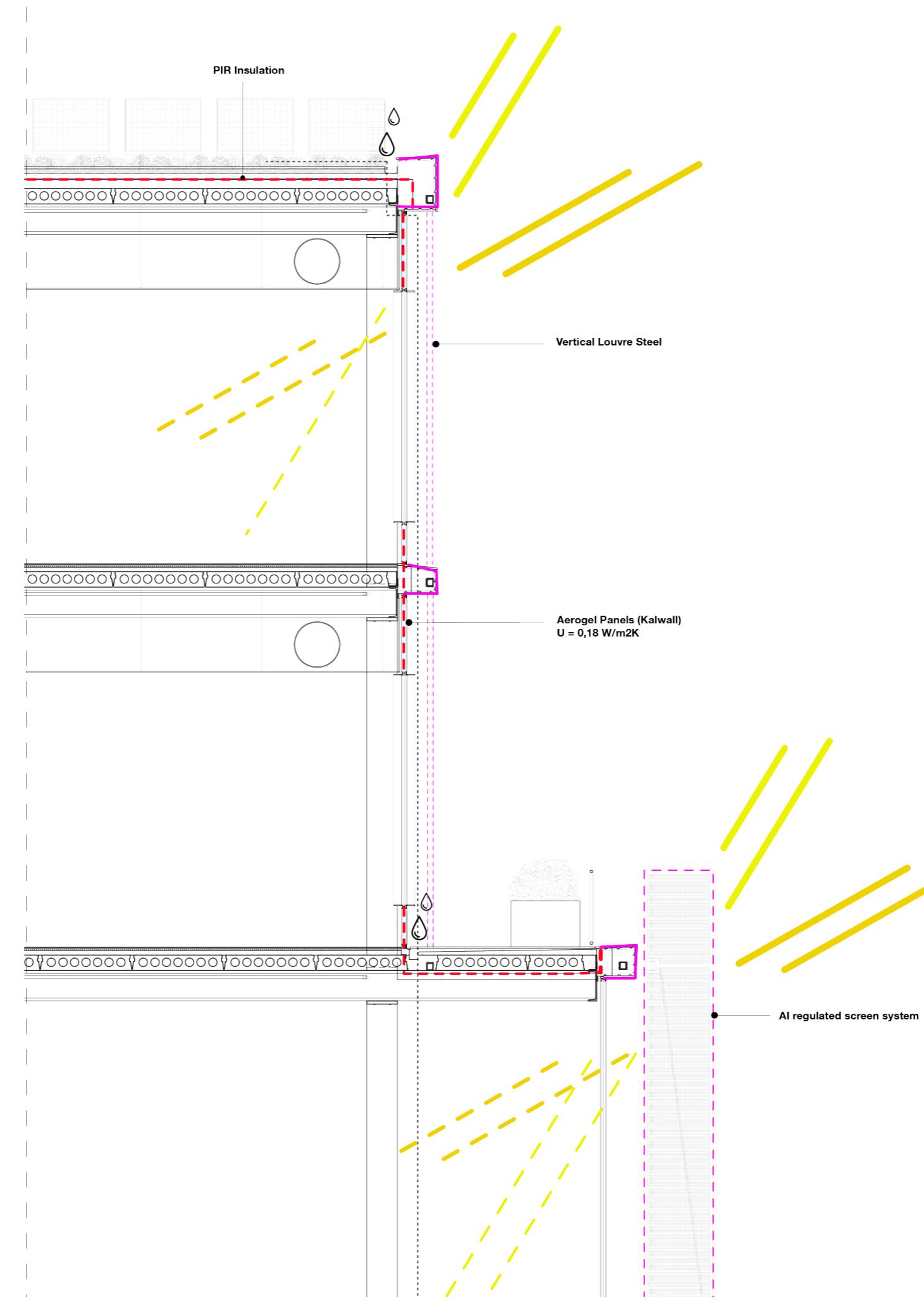


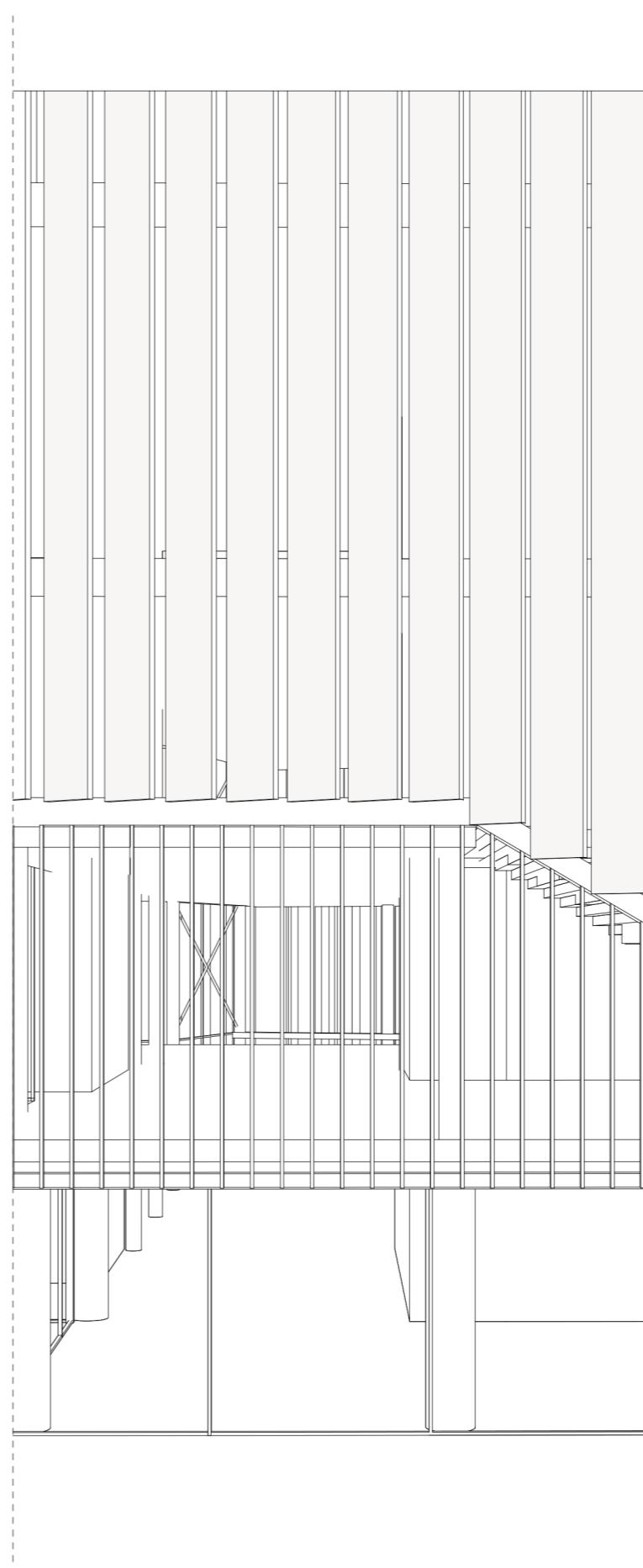
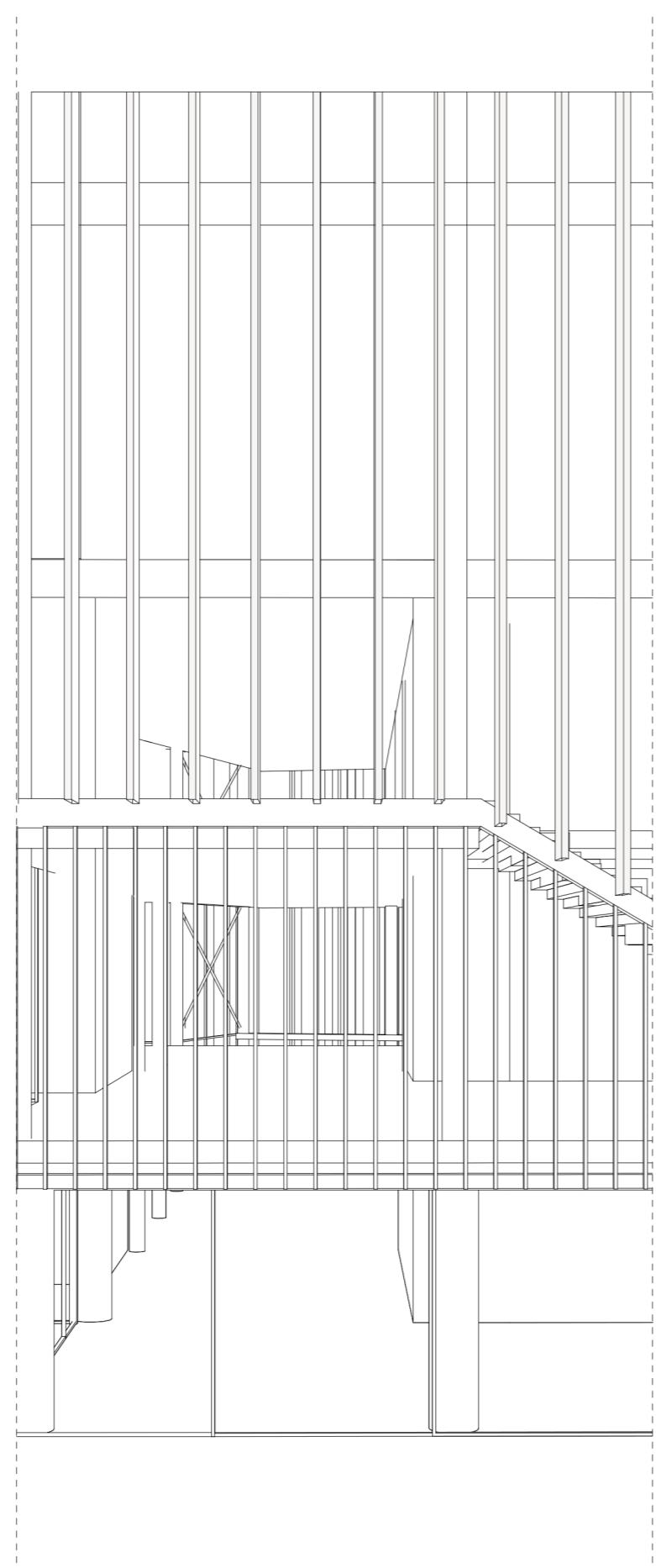
Roof

Sedum Roof
Solar Panels
Installations

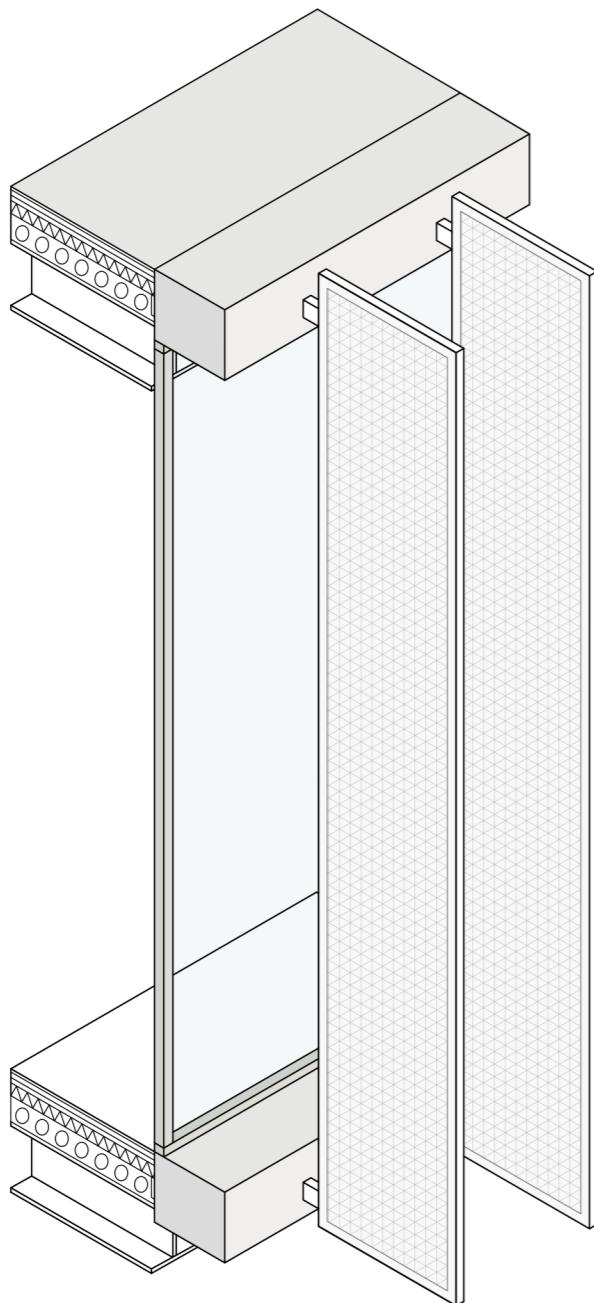




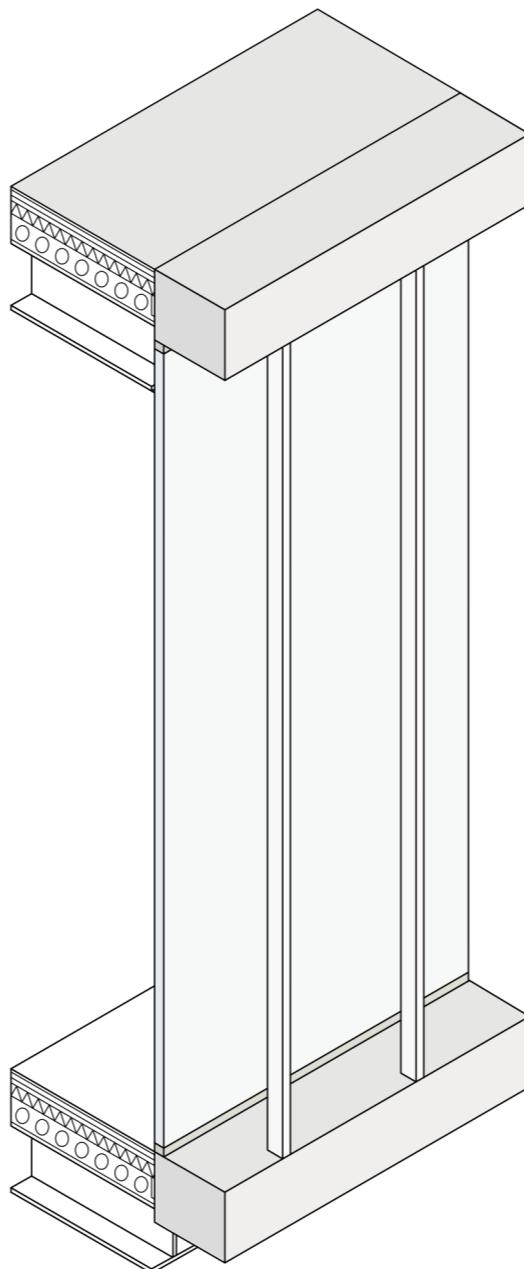




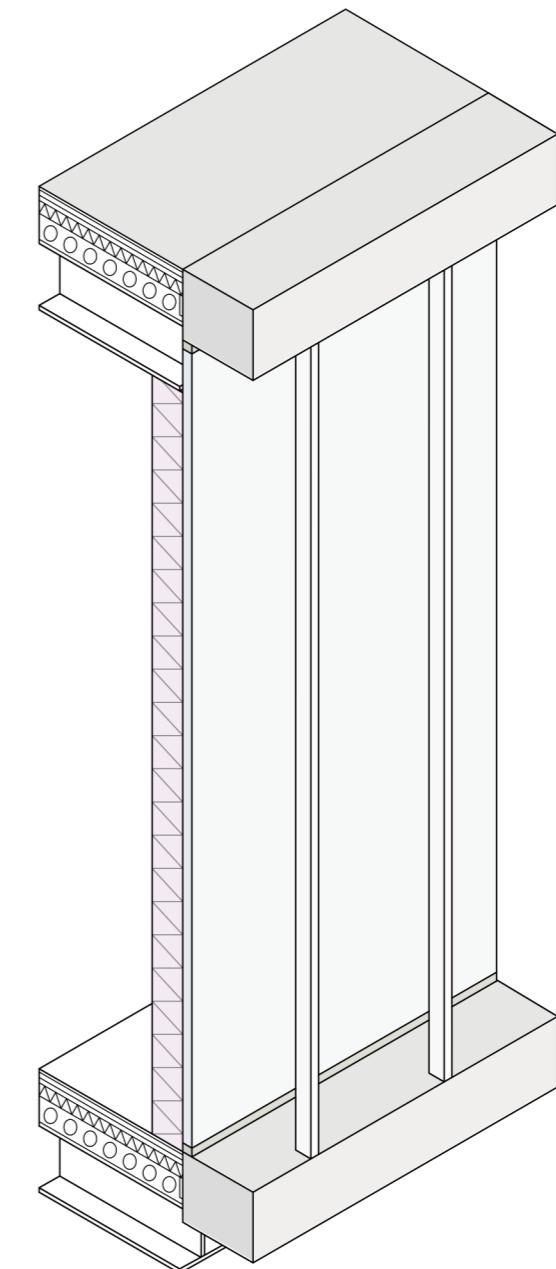
FACADE STRATEGY



Glass
Perforated Slats



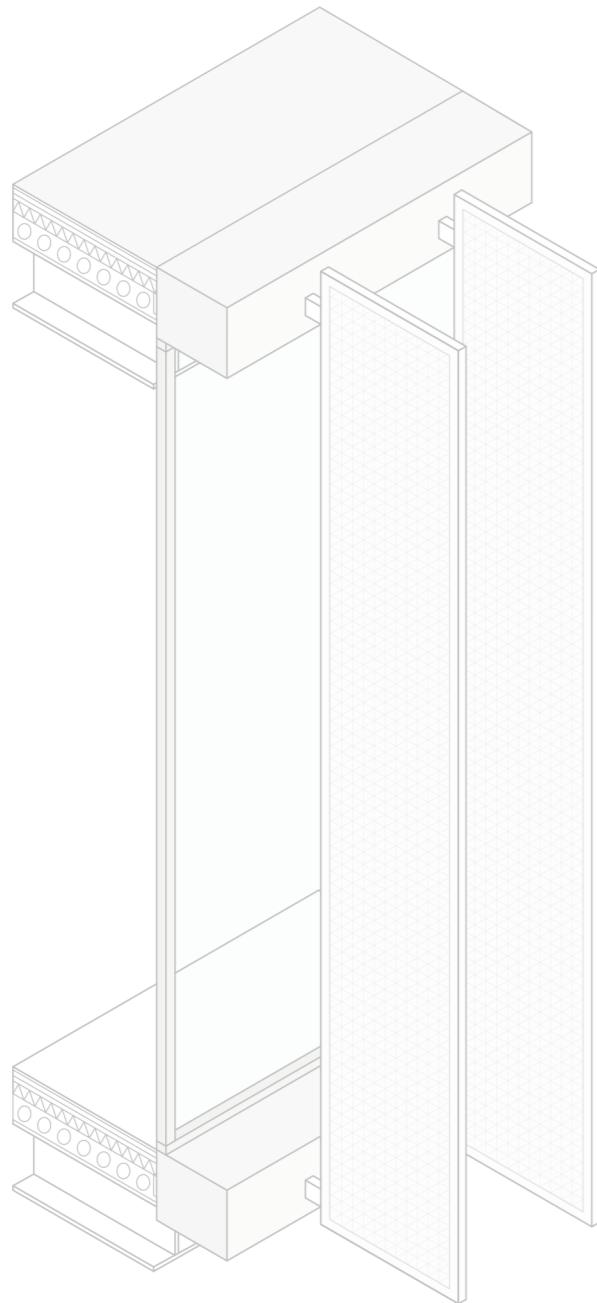
Aerogel Panel (Kalwall)
Slats



Insulation Panel
Translucent Glass
Slats

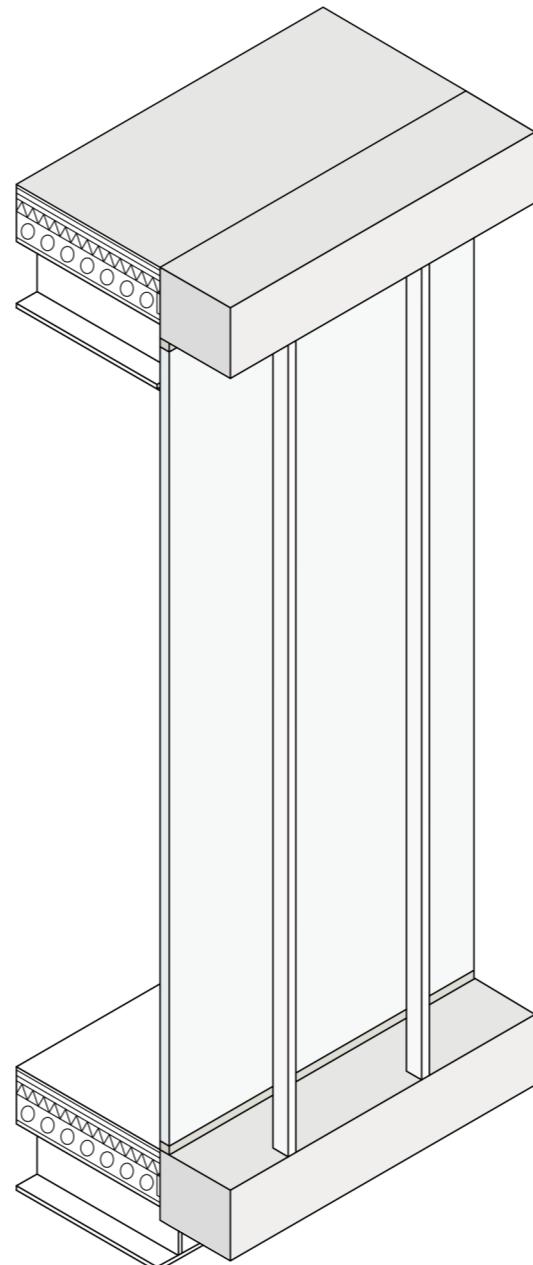
FACADE STRATEGY

$R_c = 3,9 \text{ m}^2\text{K/W}$

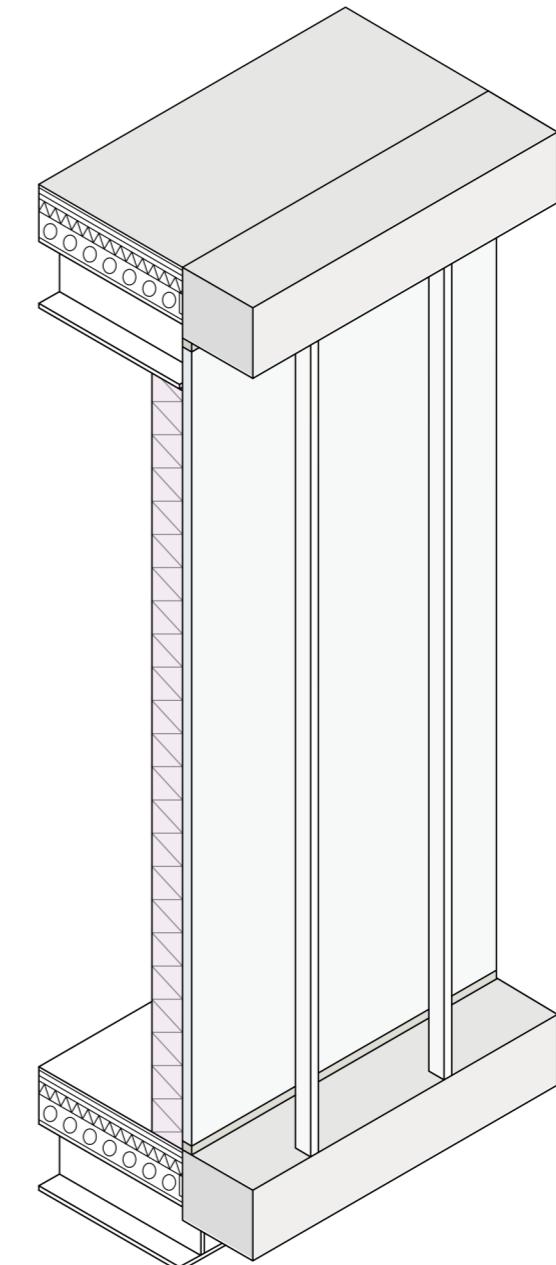


Glass
Perforated Slats

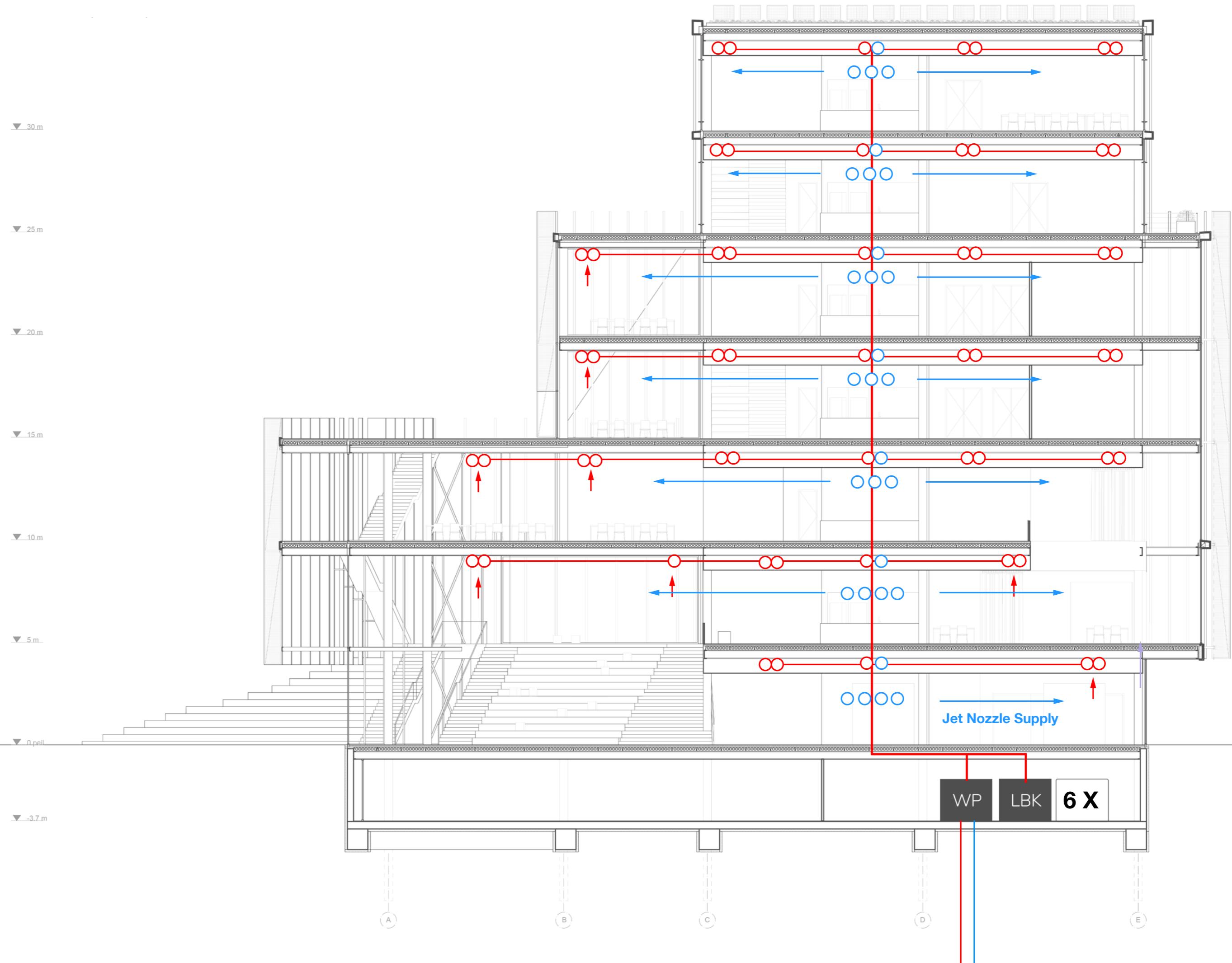
$R_c = 6,5 \text{ m}^2\text{K/W}$

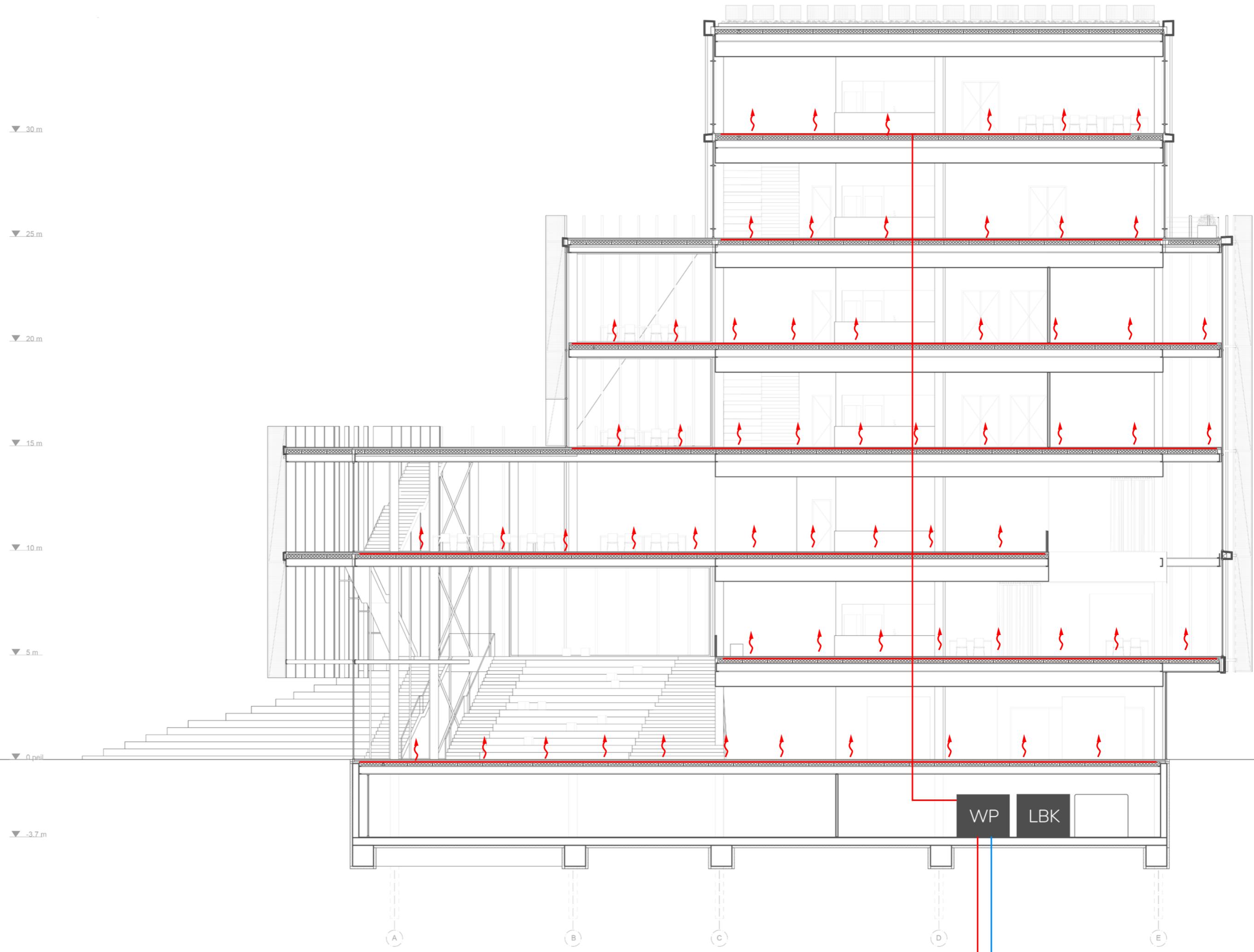


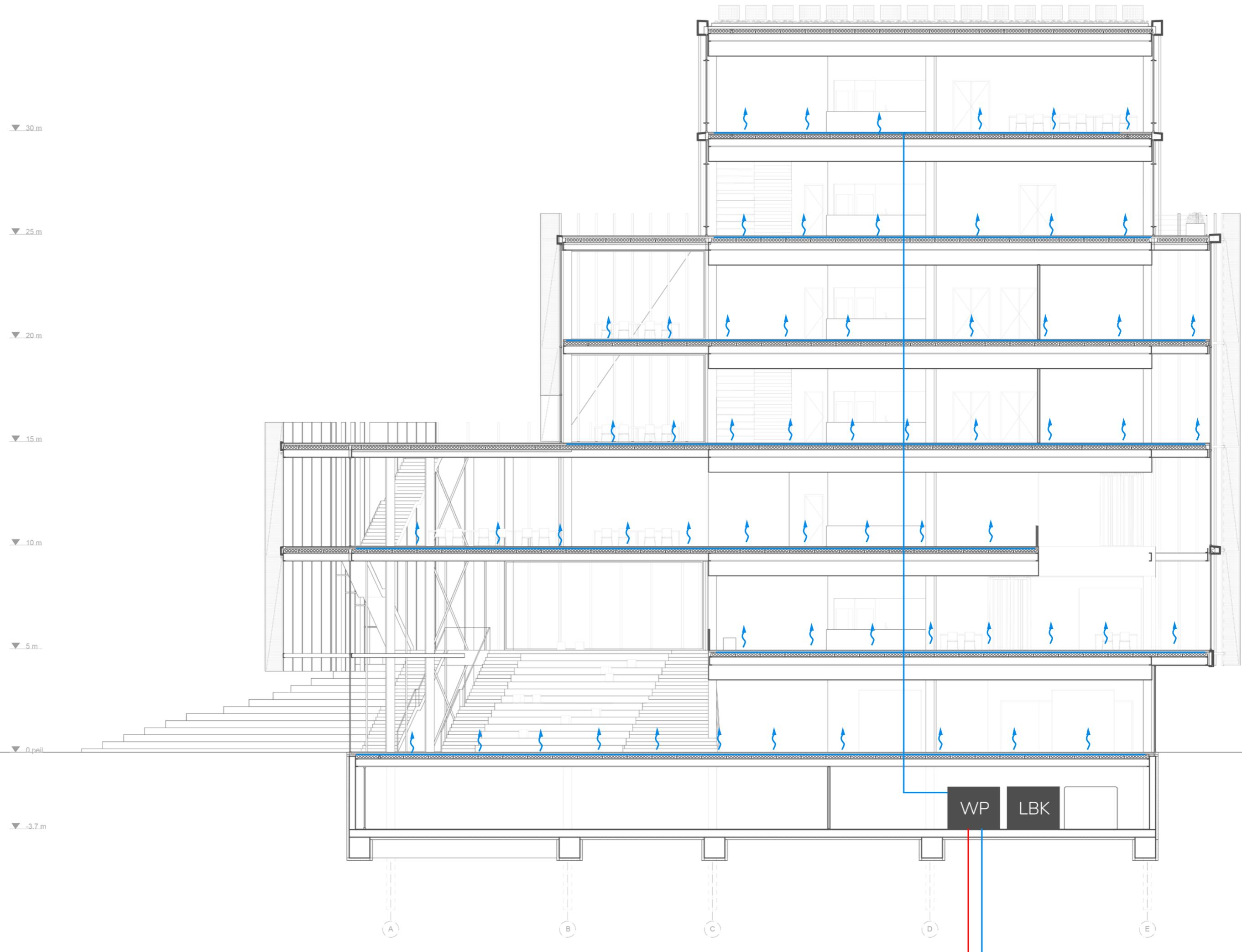
Aerogel Panel (Kalwall)
Slats



Insulation Panel
Translucent Glass
Slats







CONCLUSION

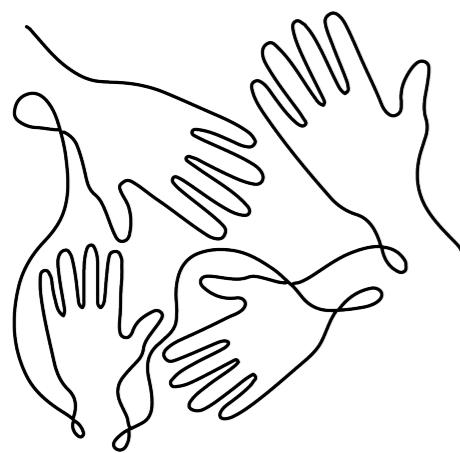


RESEARCH QUESTION

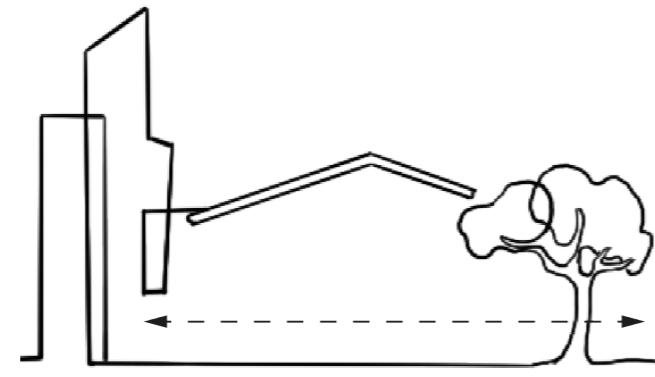
'How can university spaces adapt to the digital transformation of education while sustaining their civic role in fostering social engagement?'



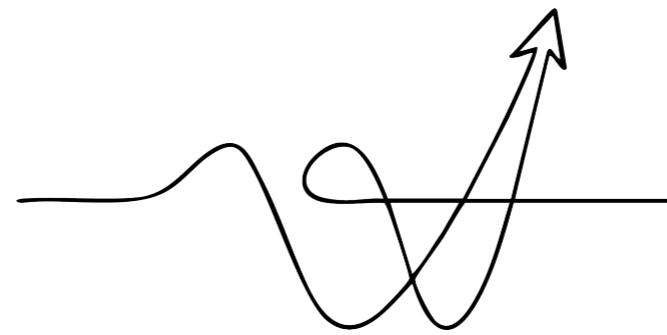
**SOCIAL
OPEN & ENGAGED WITH SOCIETY
COLLABORATION & OWN INITIATIVE
INNOVATION**



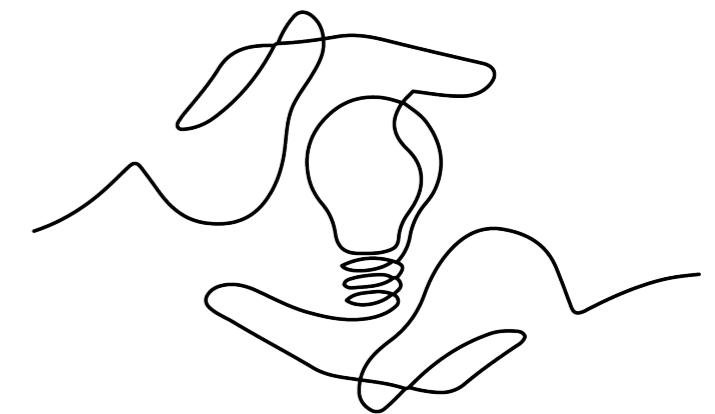
**FUNCTION AS
SOCIAL HUB**



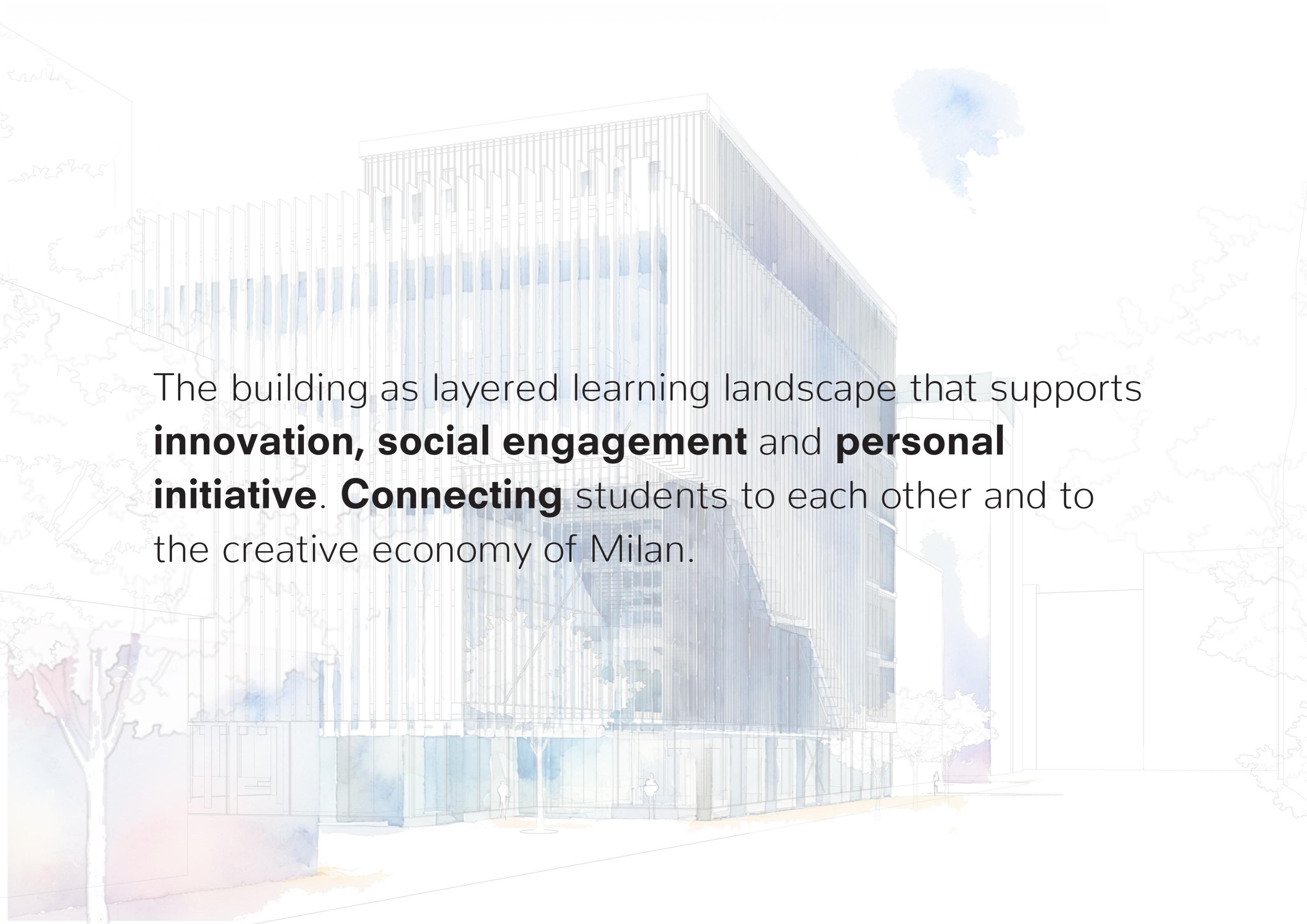
**CONTINUITY FROM
EXTERIOR TO INTERIOR**



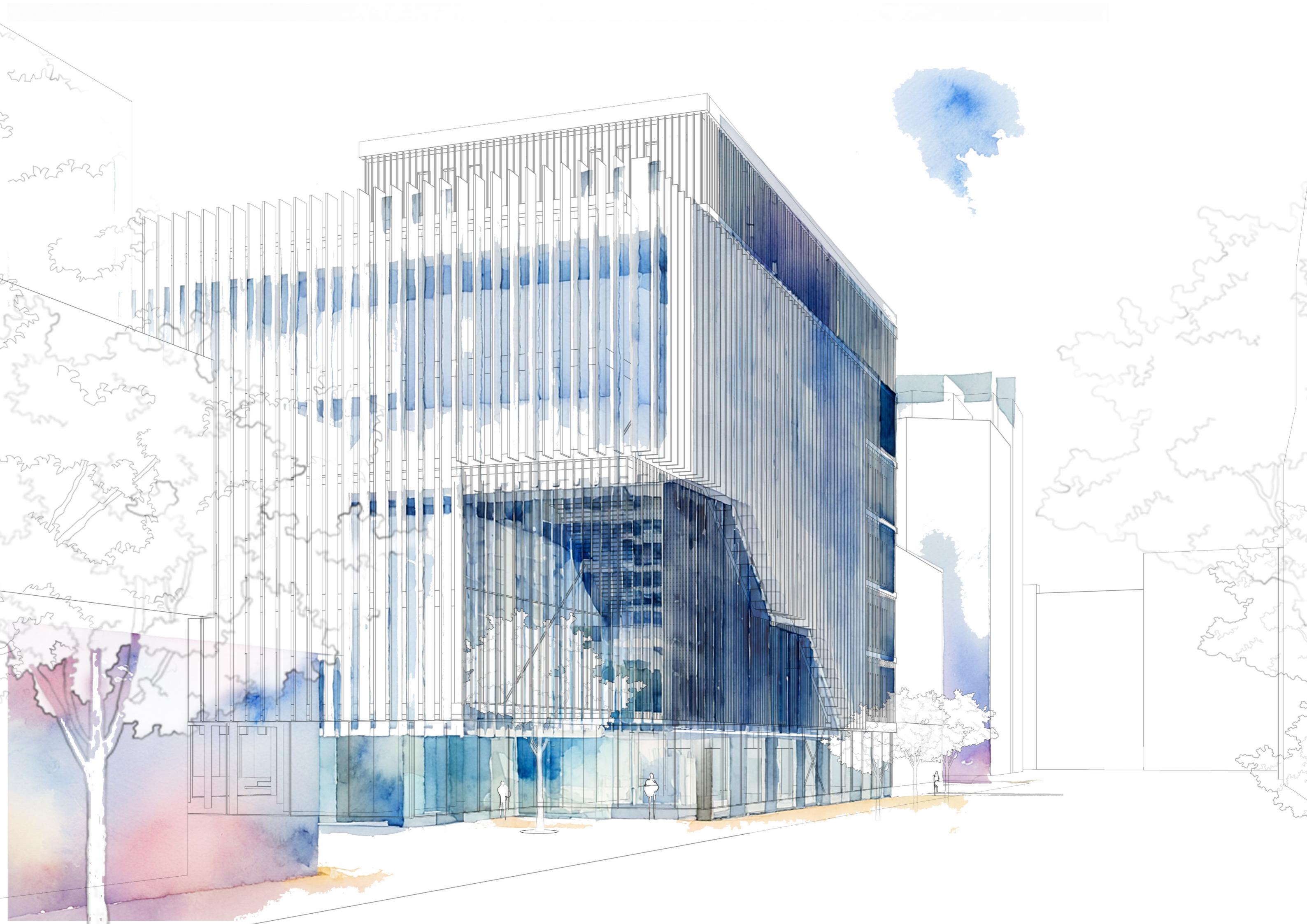
**CREATE SPACES FOR THE
CREATIVE ECONOMY**



**EXPRESS INNOVATION
THROUGH
ARCHITECTURAL DESIGN**

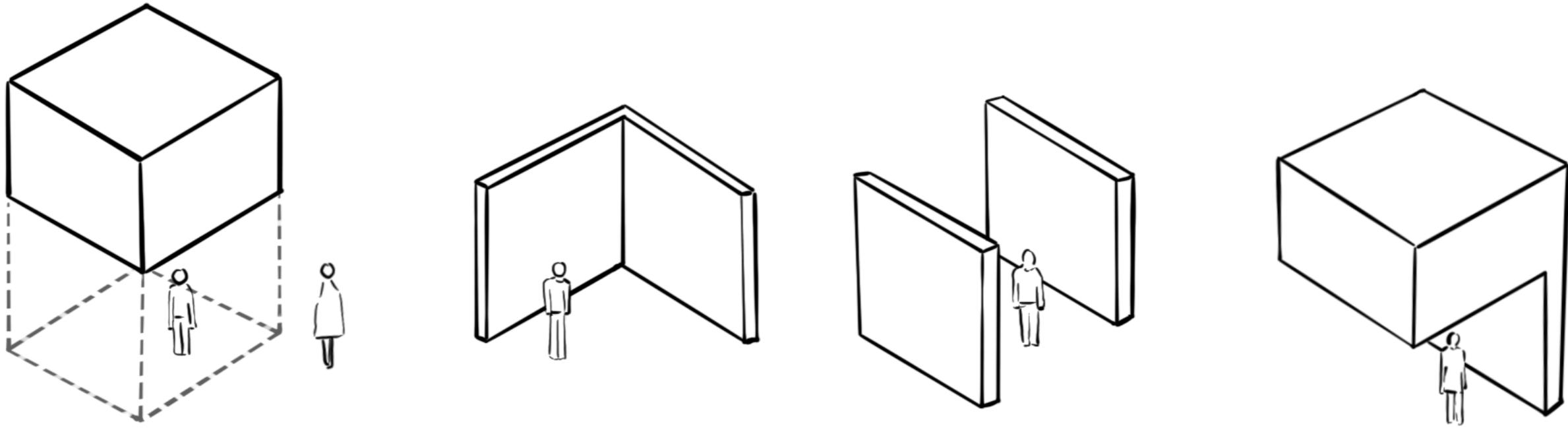


The building as layered learning landscape that supports **innovation, social engagement and personal initiative. Connecting** students to each other and to the creative economy of Milan.



Future Bocconi

THE UNIVERSITY WITHOUT WALLS



BEYOND THE CLASSROOM

P5
COMPLEX PROJECTS

Annelot Siegers
22.01.26

