

2

Research	by	Design
The Hague		Highly-densed Urban Fabric
Problem		People do not stay + lifeless site
Approach		Learning through changing tempos
Aim		Injecting life to the site and giving character to the new campus
Contribution		Reaffirms role of spatial rhythm

Content



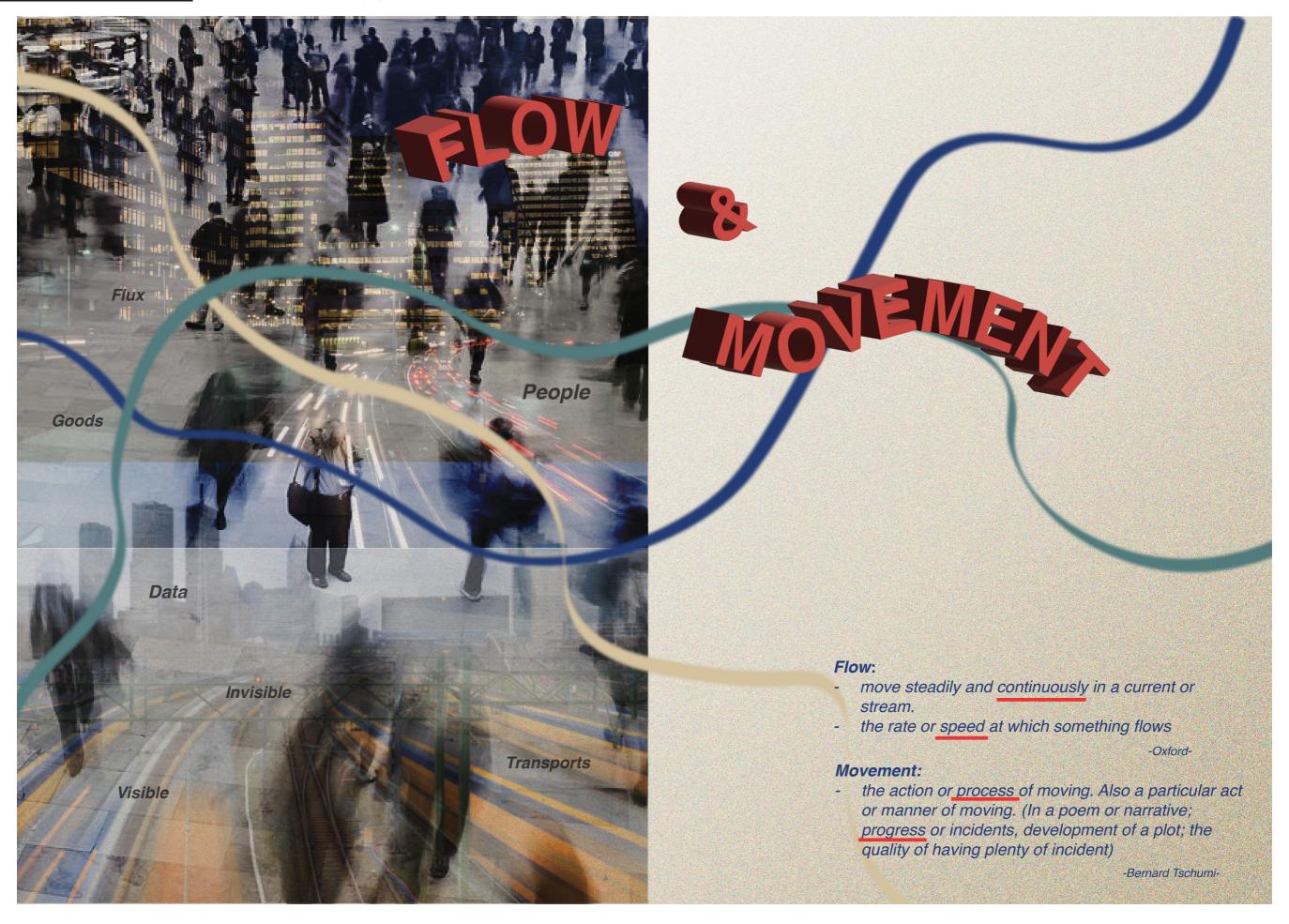
The Hague

Public Building Graduation Studio 23/24



The Hague

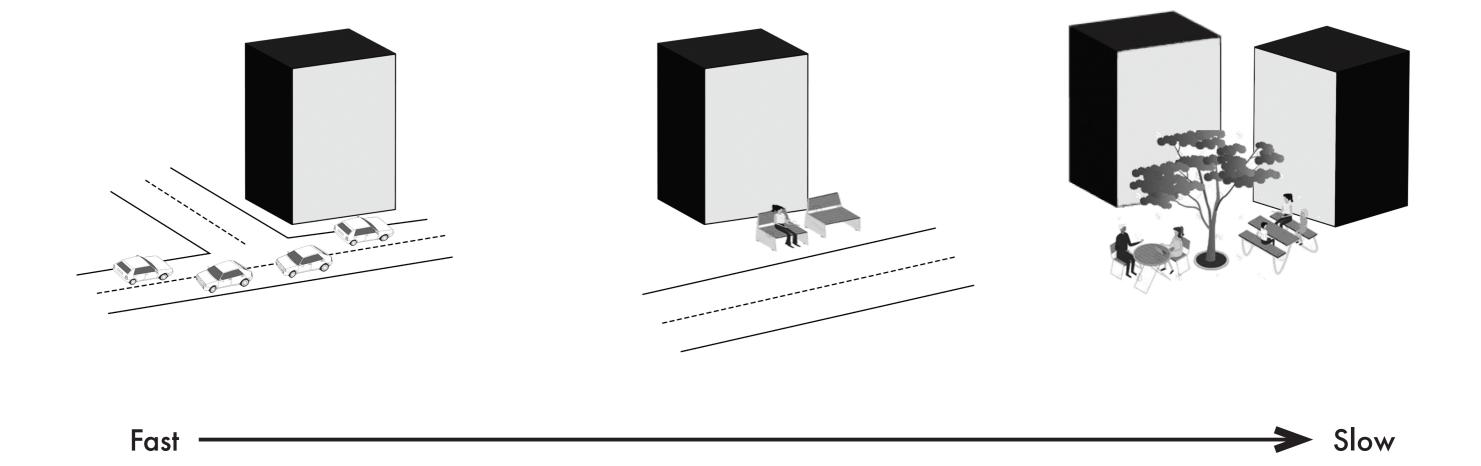
P5 Presentation The Public Choreography Public Building Graduation Studio 23/24

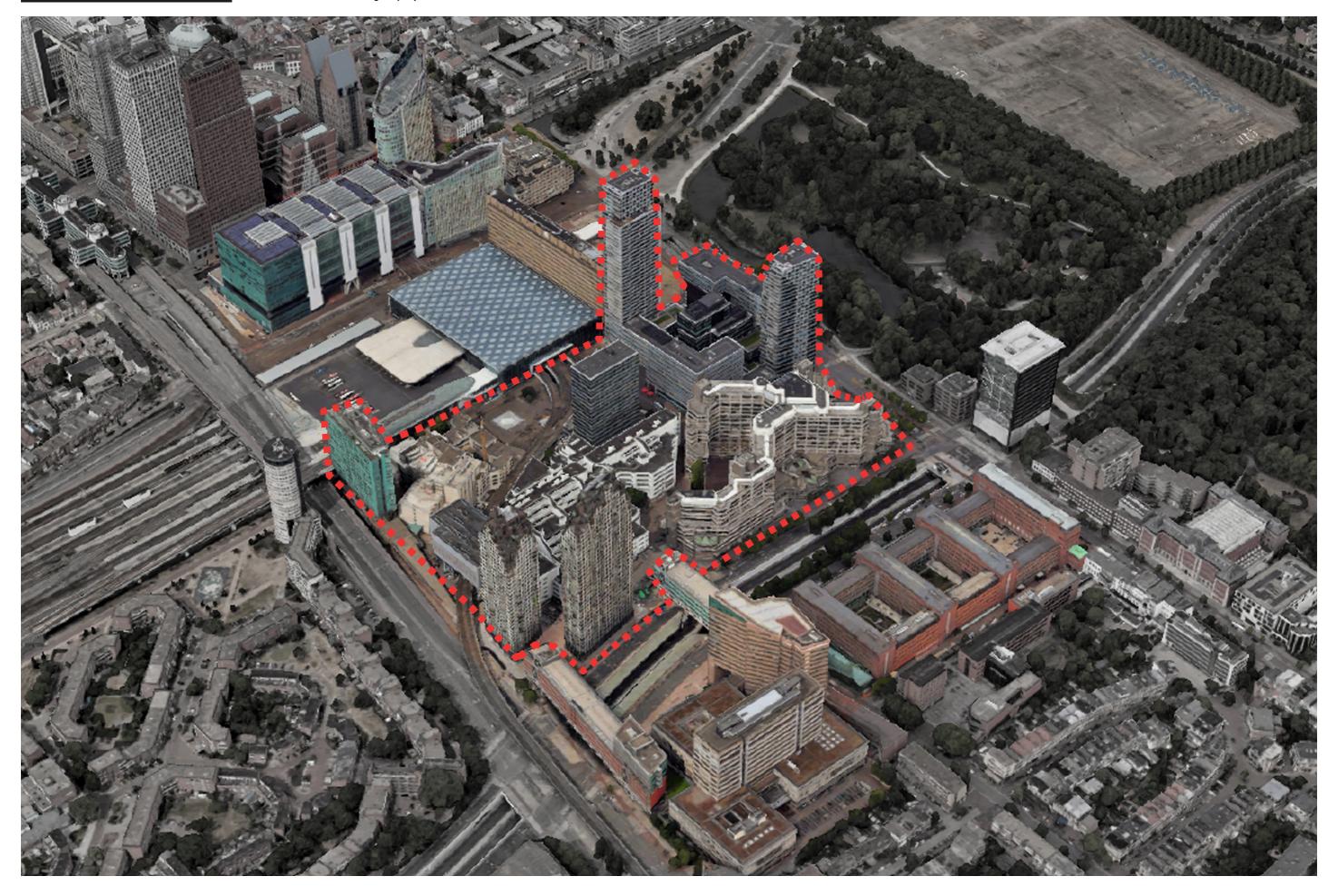


The Hague



The Hague

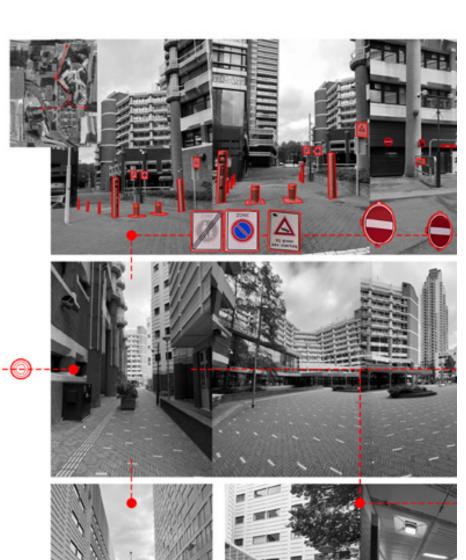




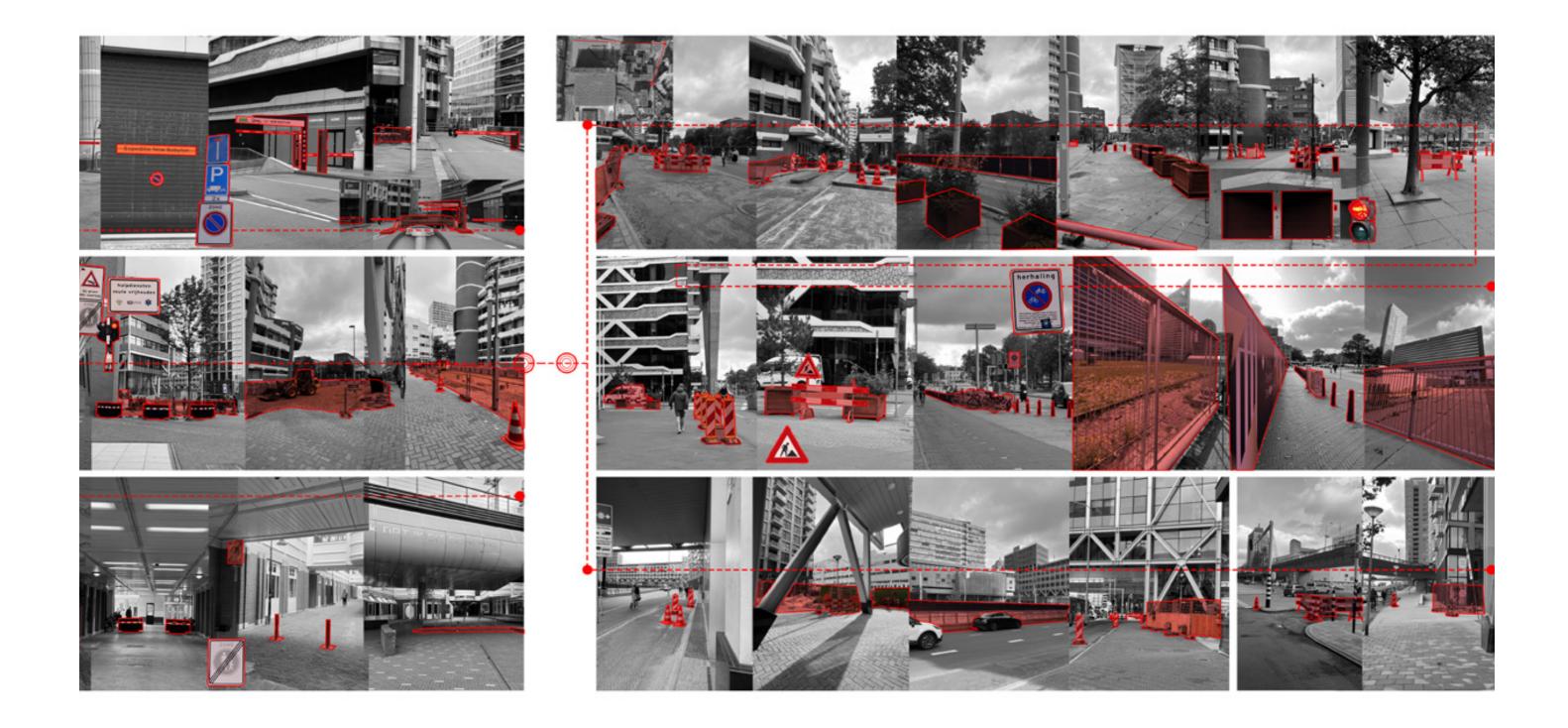
The High Density Urban Fabric

P5 Presentation The Public Choreography









11

How does the change in tempo of programs and movement influence the design of spaces and vertical typology?

Research Question

How does the change in tempo of programs and movement influence the design of spaces and vertical typology?

Identity of 21 st-Century Campus

Different learning speed in fast paced digital age

Speed & tempo through spaces

Speed Gradient
Learning Trajectories

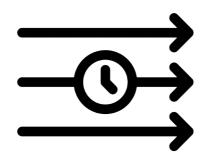
Phenomenology

Changing Spatial
Qualities
Sequence of
spaces

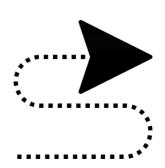
Integrated Urban Fabric

Continuous journey
Connected 'spines'
and 'streets'









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Tempos & Configuration

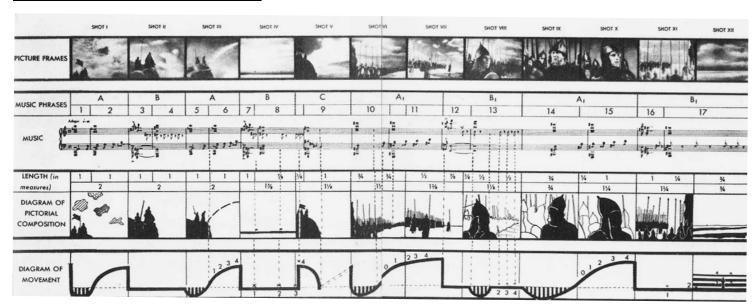


Diagram 1: Eisenstein Montage

Perspective Montages

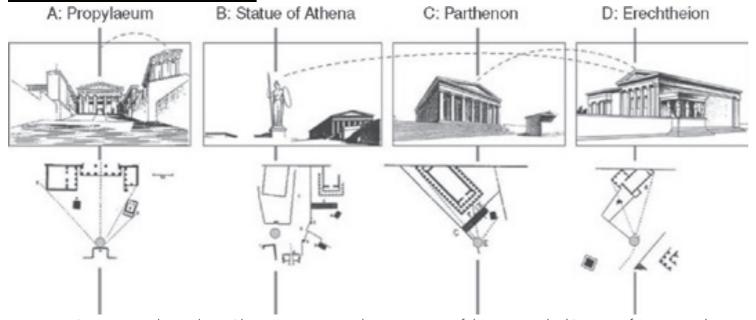


Diagram 2: Diagram based on Choisy's perceptual experience of the Acropolis (Space of Montage)

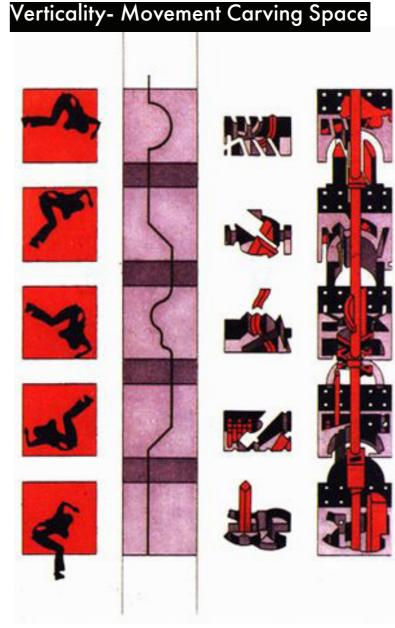
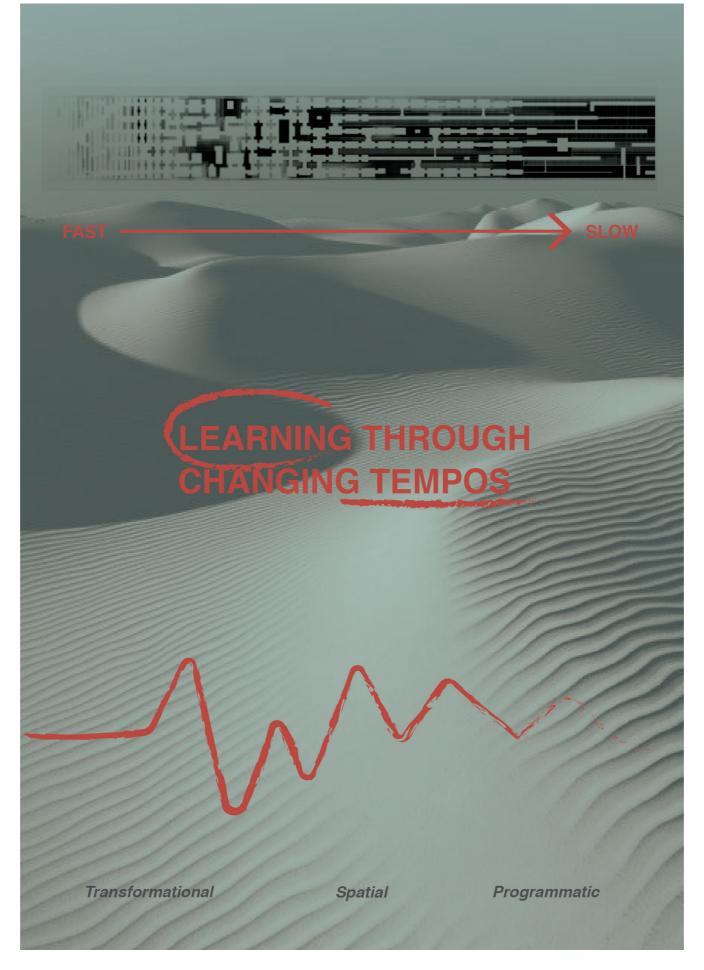


Diagram 3: Notation on Space, Events, and Movement on 'The Tower' (Vertical Movement)



Main Concept

Slow-Paced Learning: The Most Effective Way to Retain 90% of What You Learn

Cramming or skimming doesn't work if your long-term goal is knowledge retention. In desperation to pick up ideas quickly, you are likely to miss out on valuable ideas.

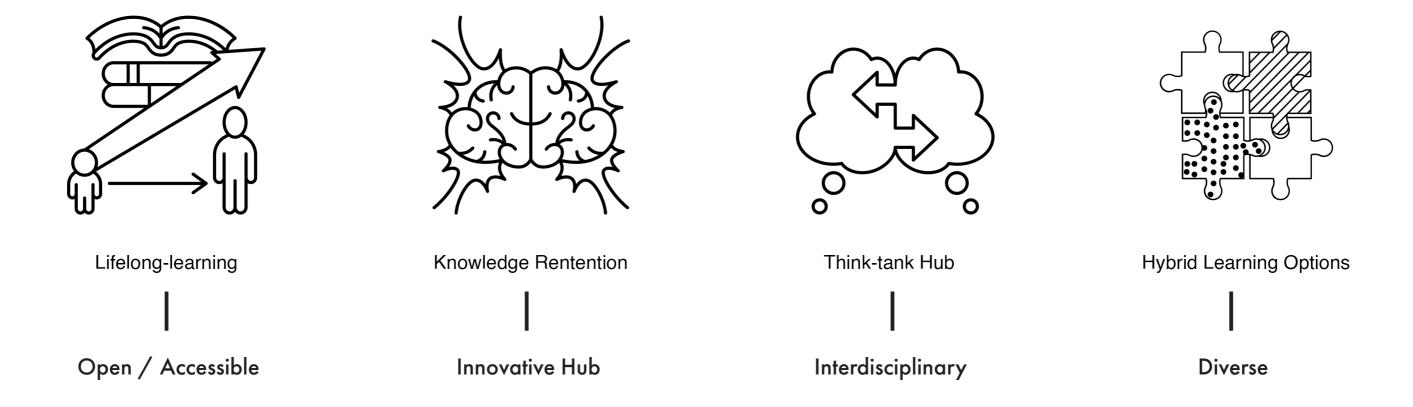
In fact, there are many empirical data that tell us how **slowness** is an element that **favors learning**, and therefore it can not only **not be a problem**, but rather it becomes a **desirable trait** of the student.

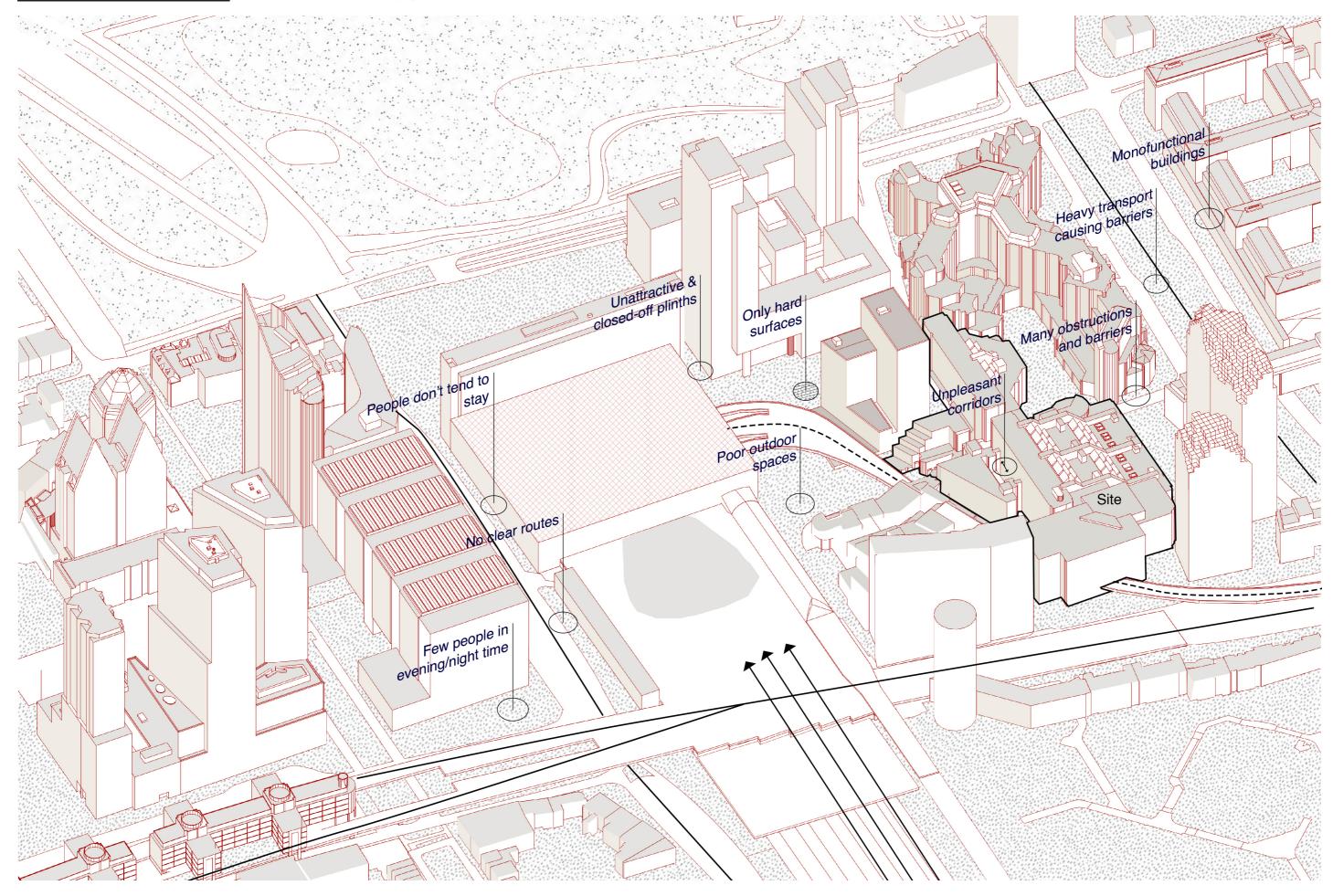
"..slowing down the pace, even for a few minutes a day, and giving yourself time, decreases the emotional tension and, consequently, improves the "performance", whether for study or work," writes Valentina Tobia, a psychologist, with a PhD in Experimental Psychology, Linguistics and Cognitive Neuroscience.

BACKGROUND: LEARNING WITH SPEED

speed-readers and double-speed listeners seem to process information faster, are these people actually *learning*? A new study from UCLA provides some fascinating insight into how fast we can process information.

In a second experiment, one group watched a video at average speed, then another at double speed. A separate group did the opposite: double speed and then normal speed. A comprehension quiz showed that the normal then double speeders performed better.





Existing Condition / Main Concerns



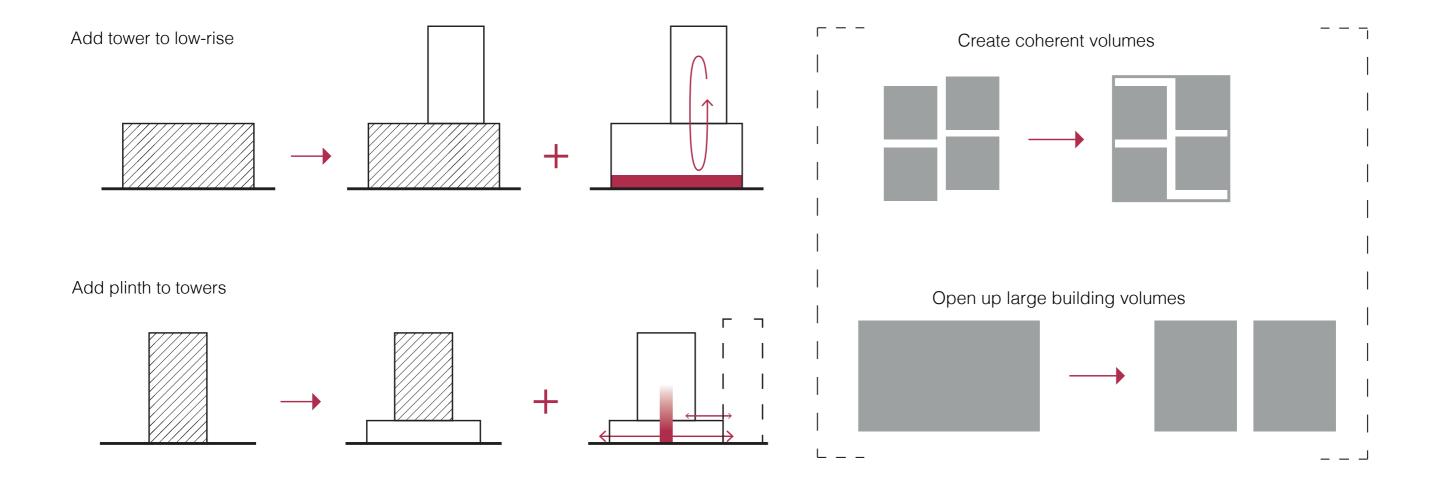
Fragmentation

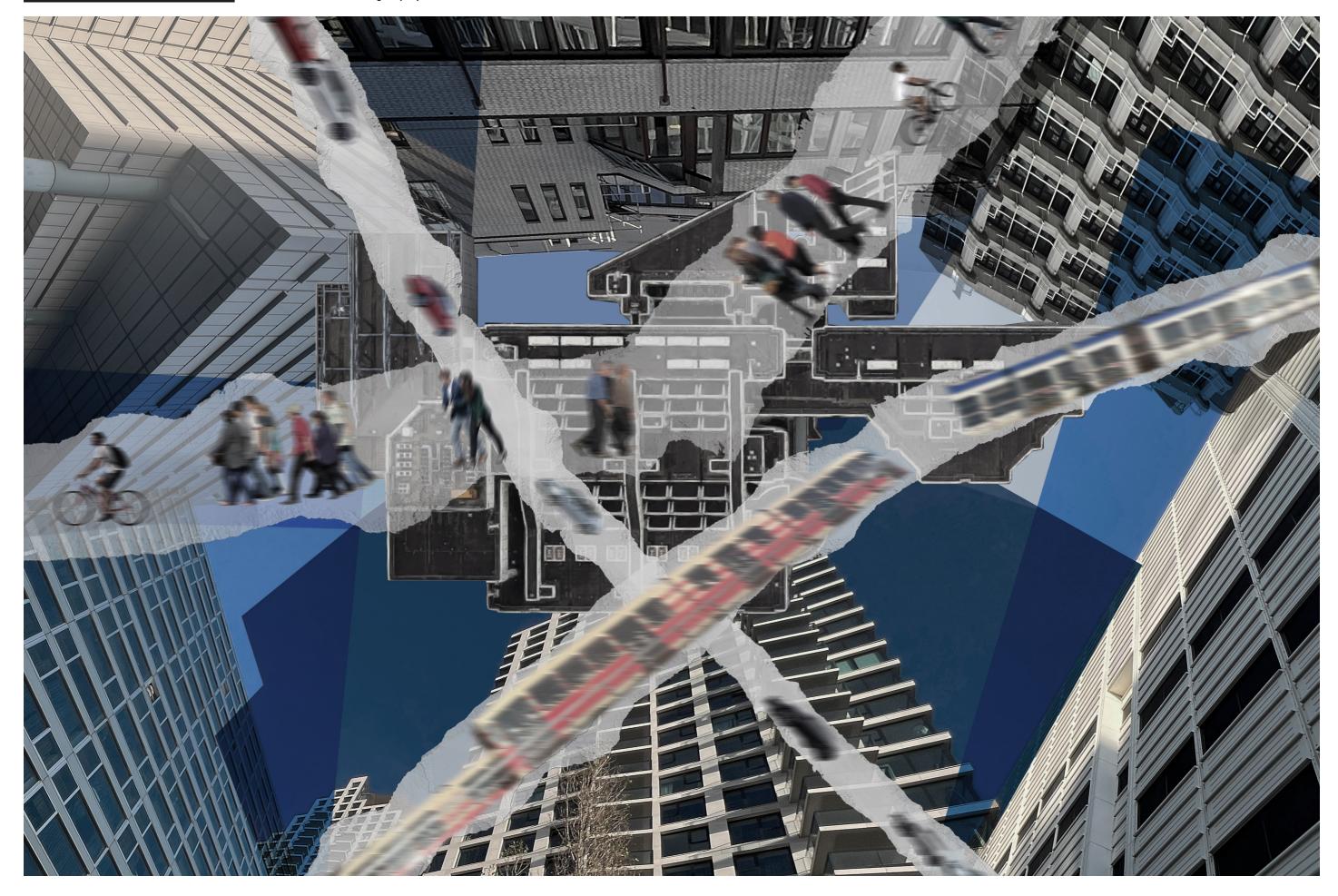


Lifeless Routes / Corridors

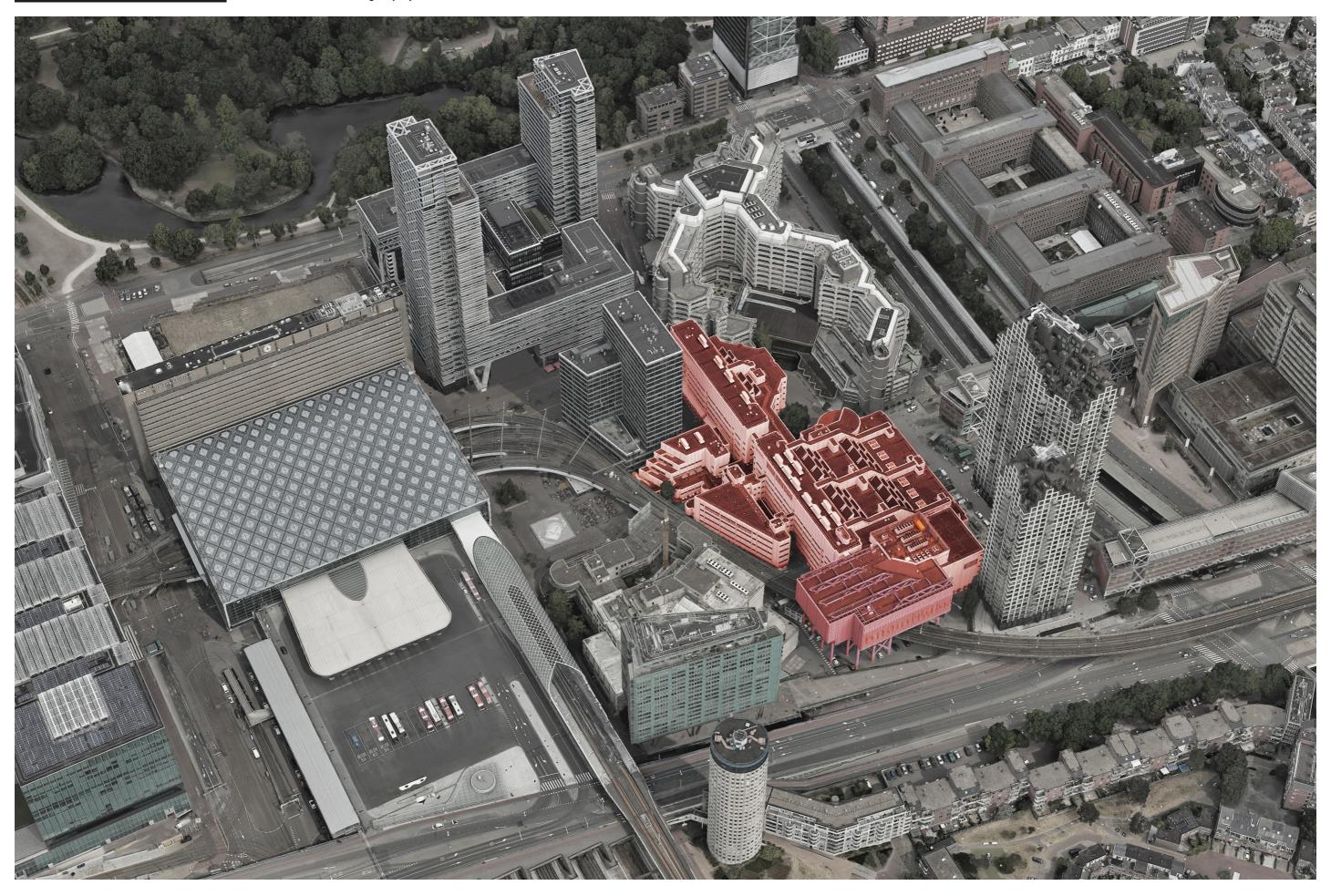


Closed-off Ground Floors

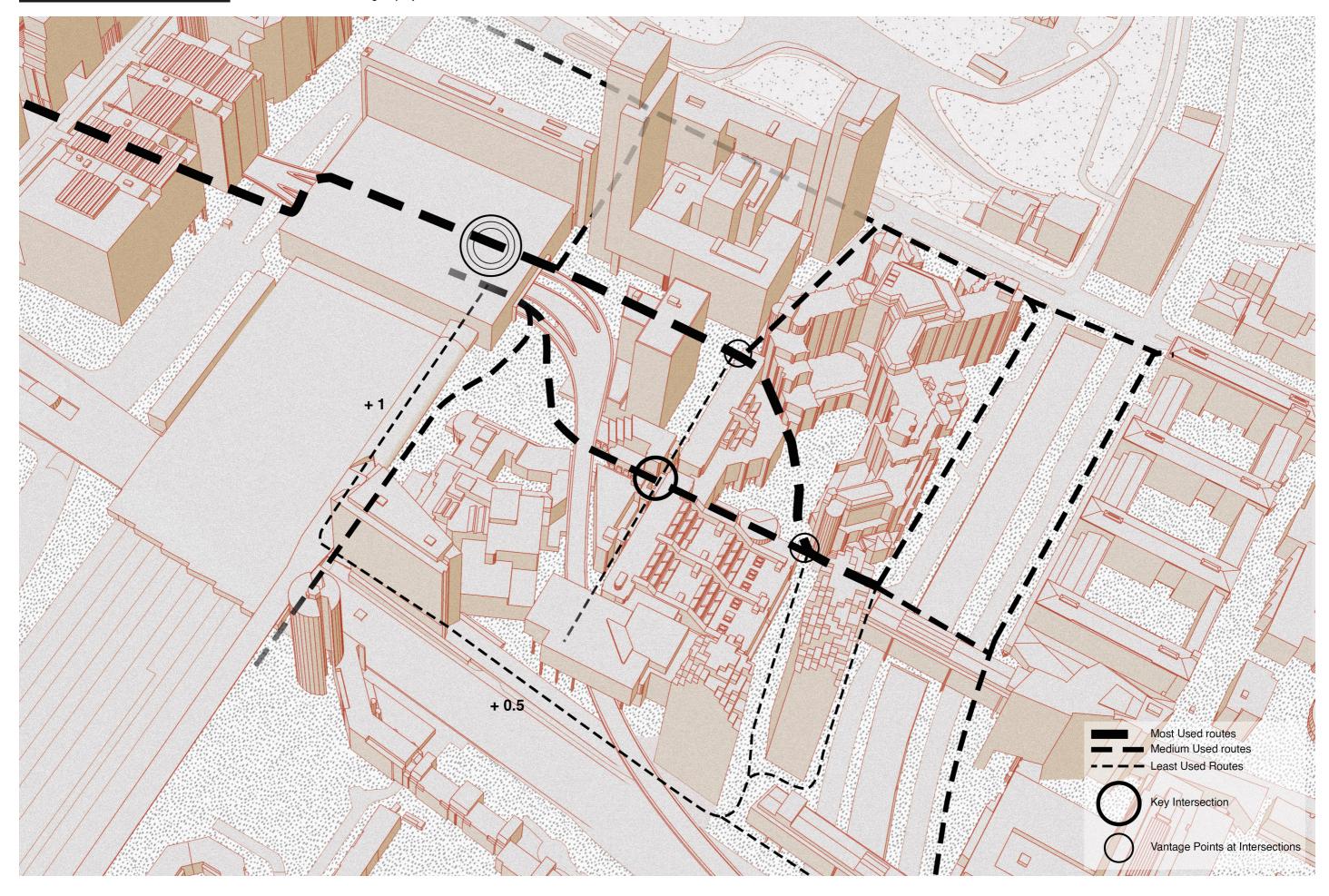




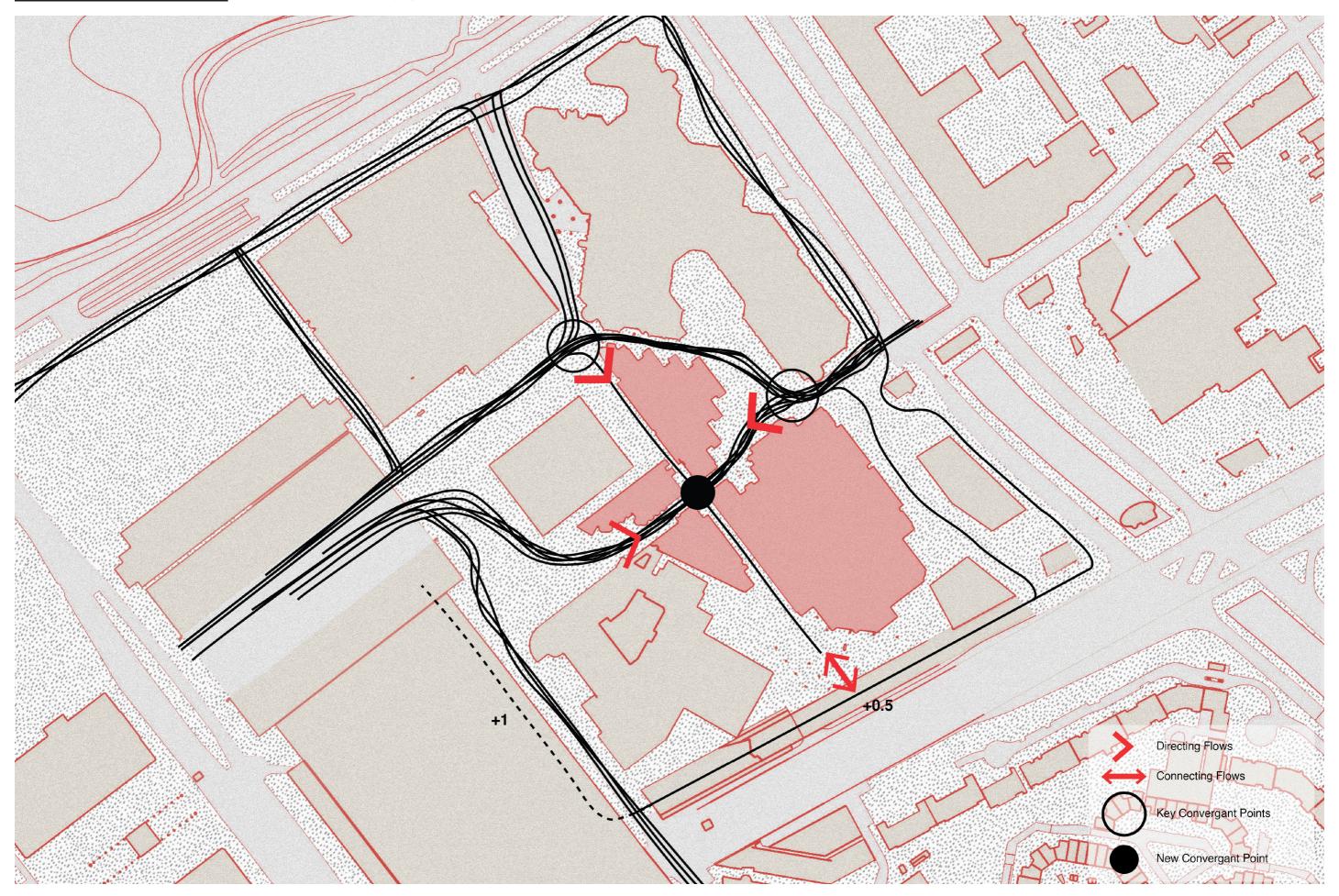
Site Impression



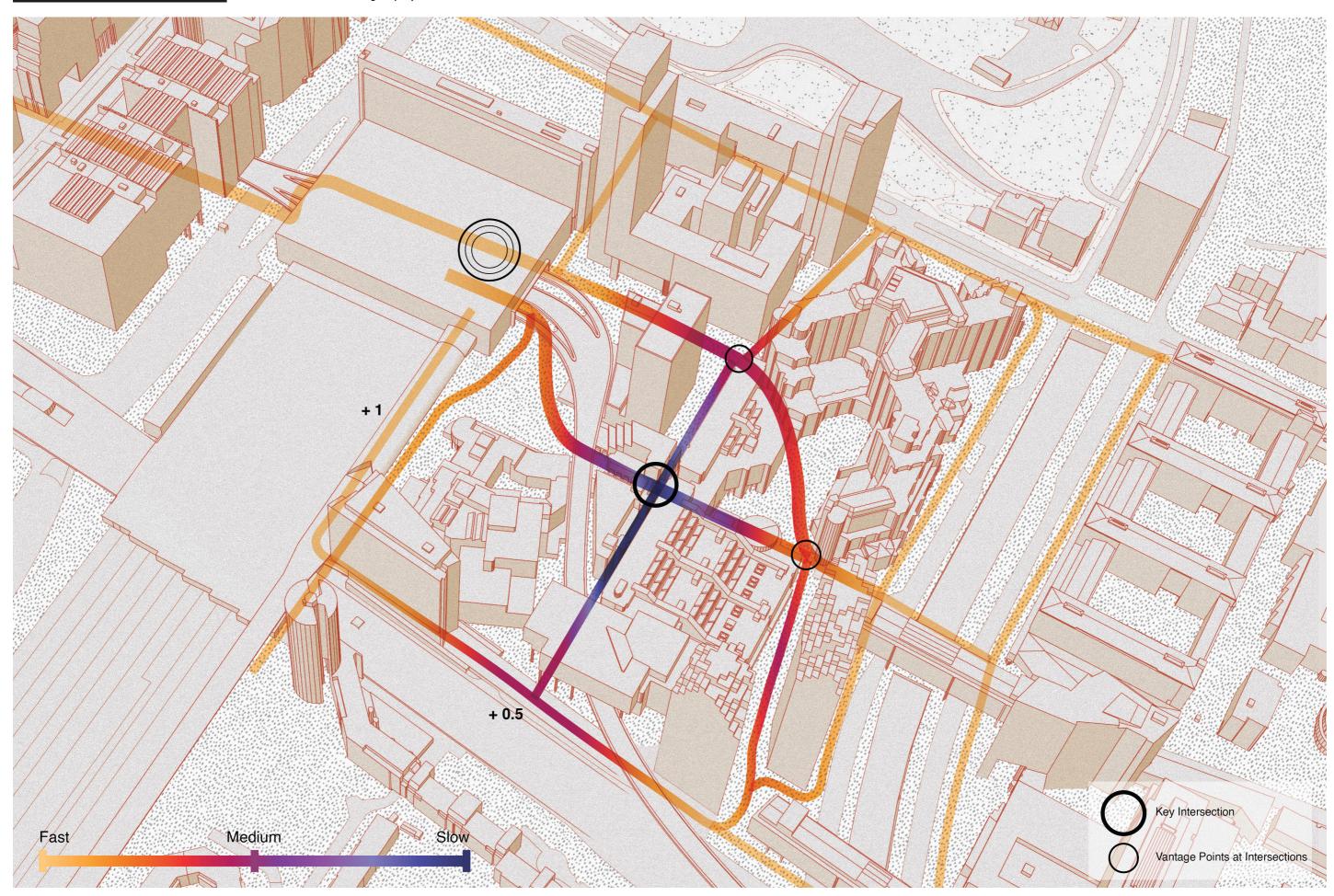
The Royal Library



Existing Fast Flows



Converging Vantage Points & Flows



New Flows' Tempos



The Royal Library

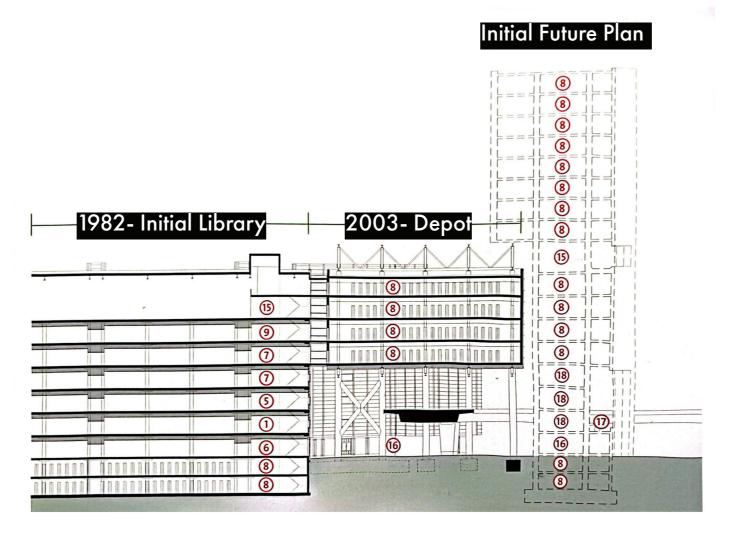
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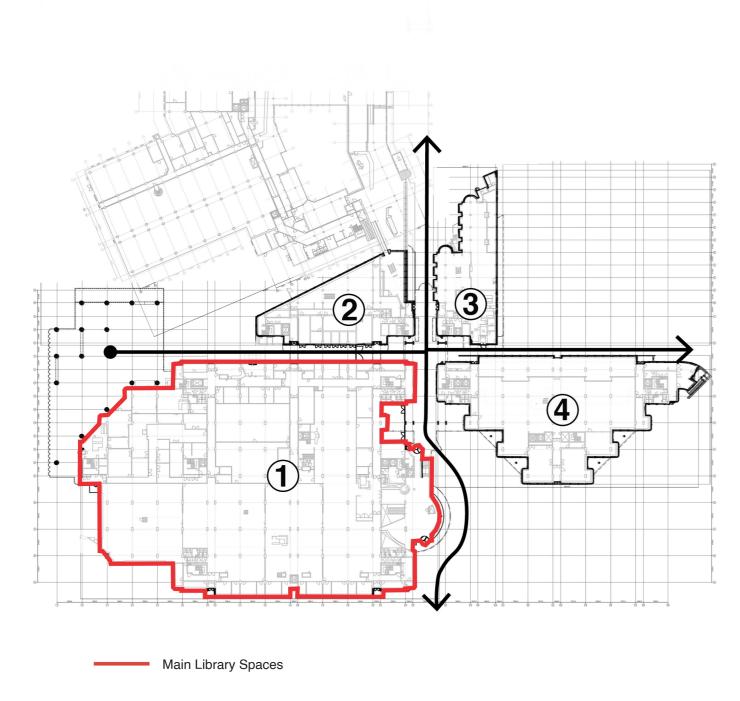


The Royal Library



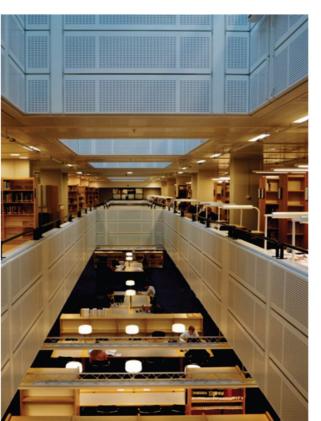
2007 - New Entrance







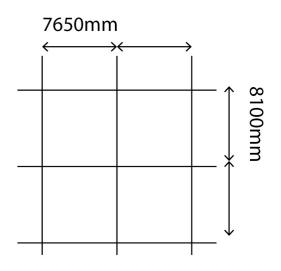
Diffused Light



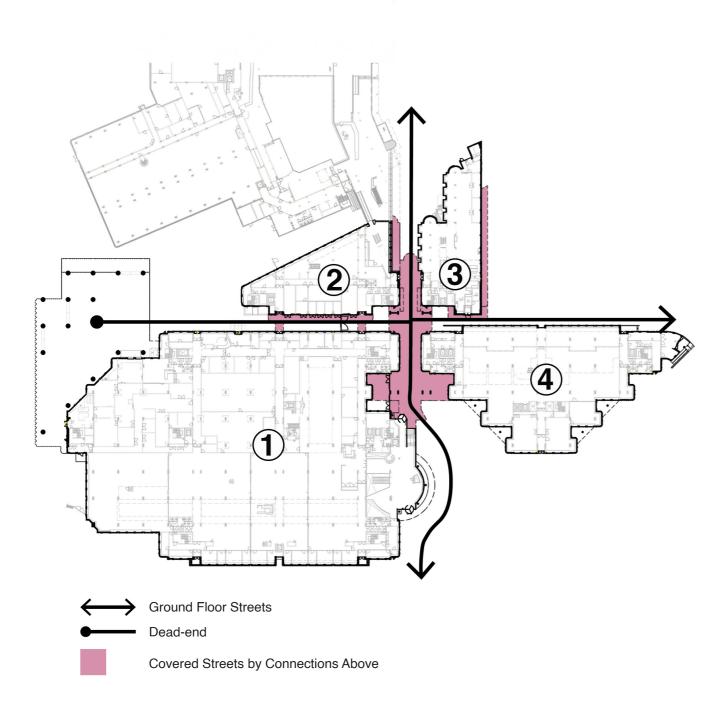
Tranquil Spaces



Visual Connectivity



Modular Grids





Dark Streets/ Routes



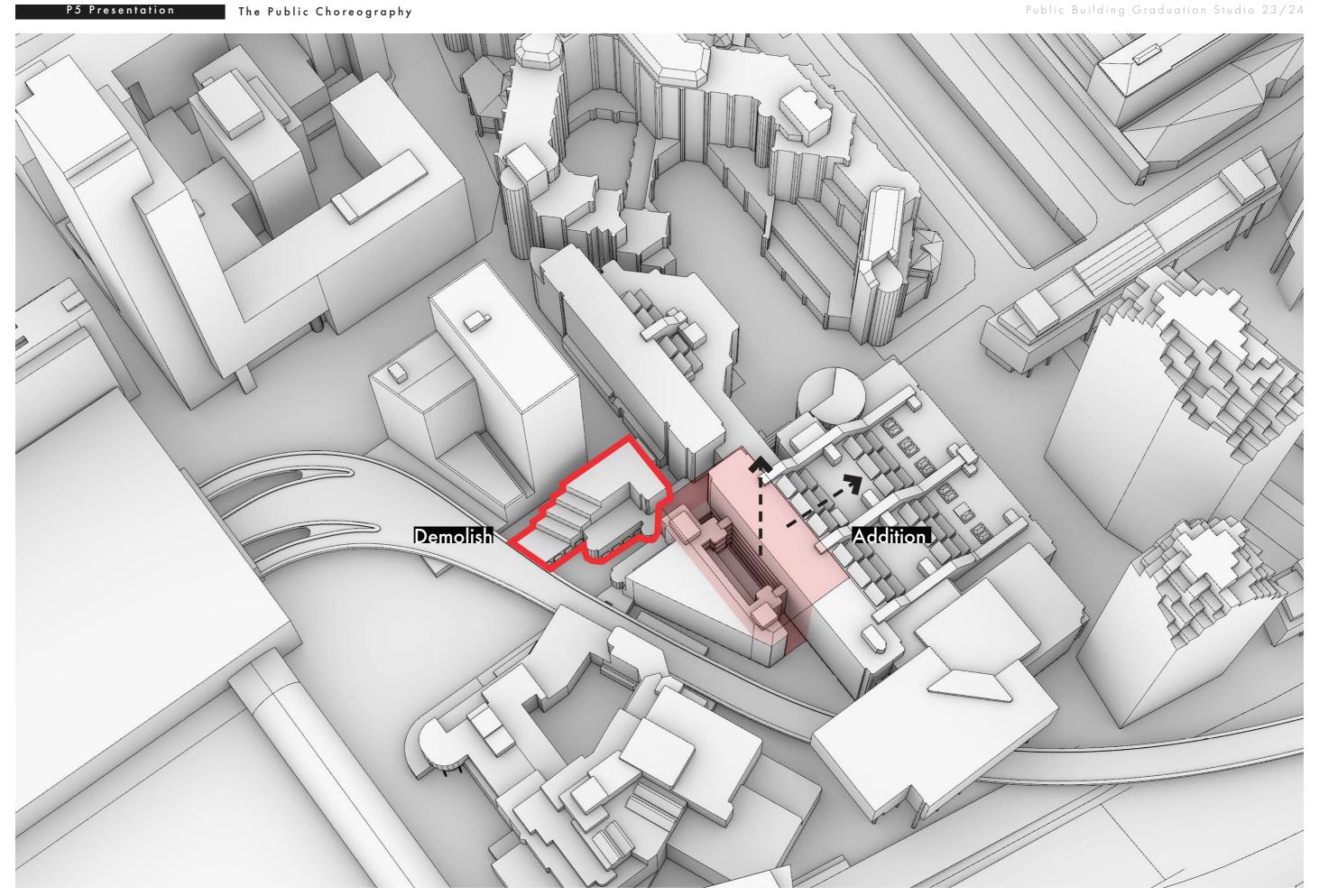
No Active/ Transparent Plinths



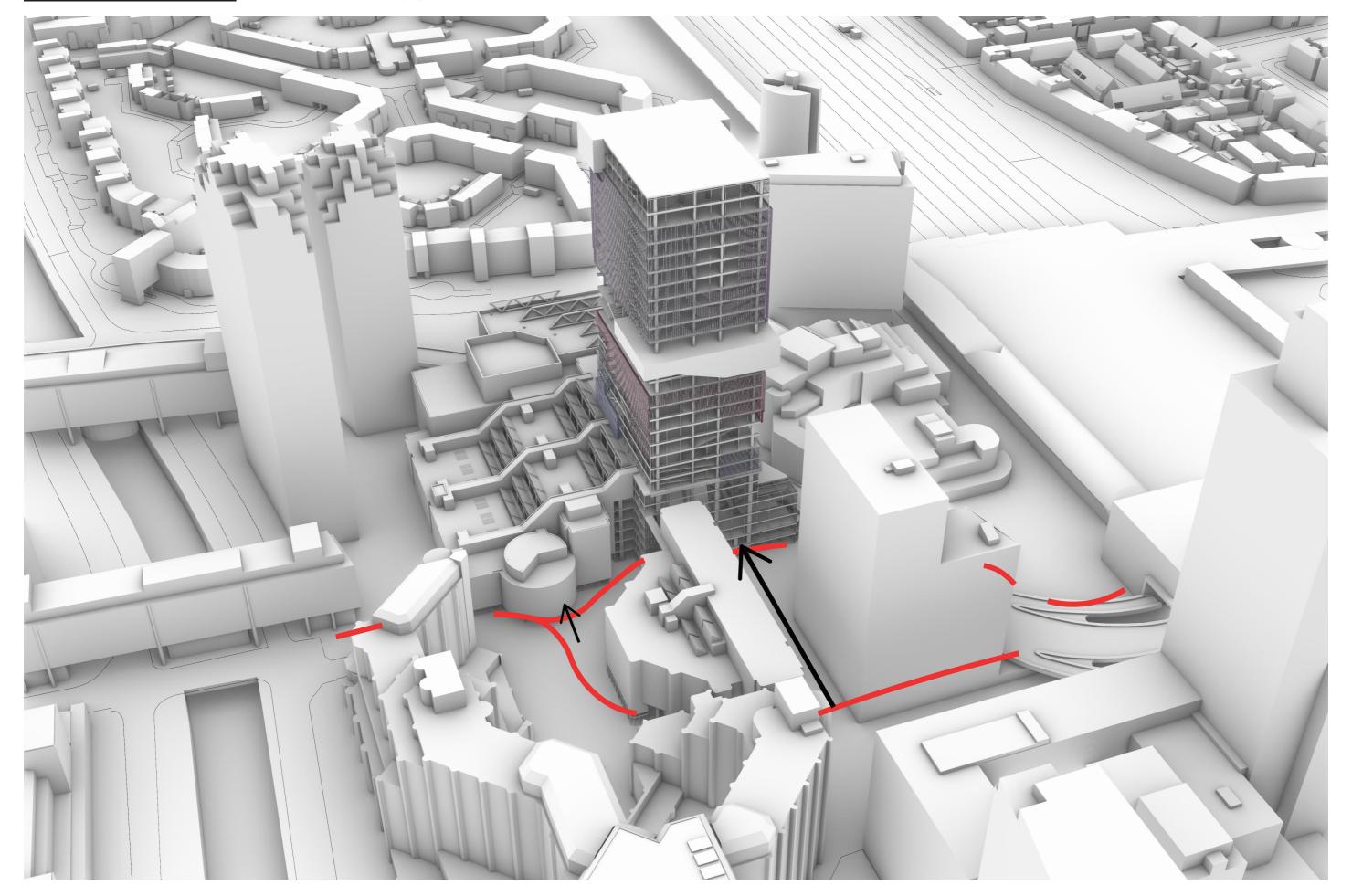
Lifeless/ Narrow Streets

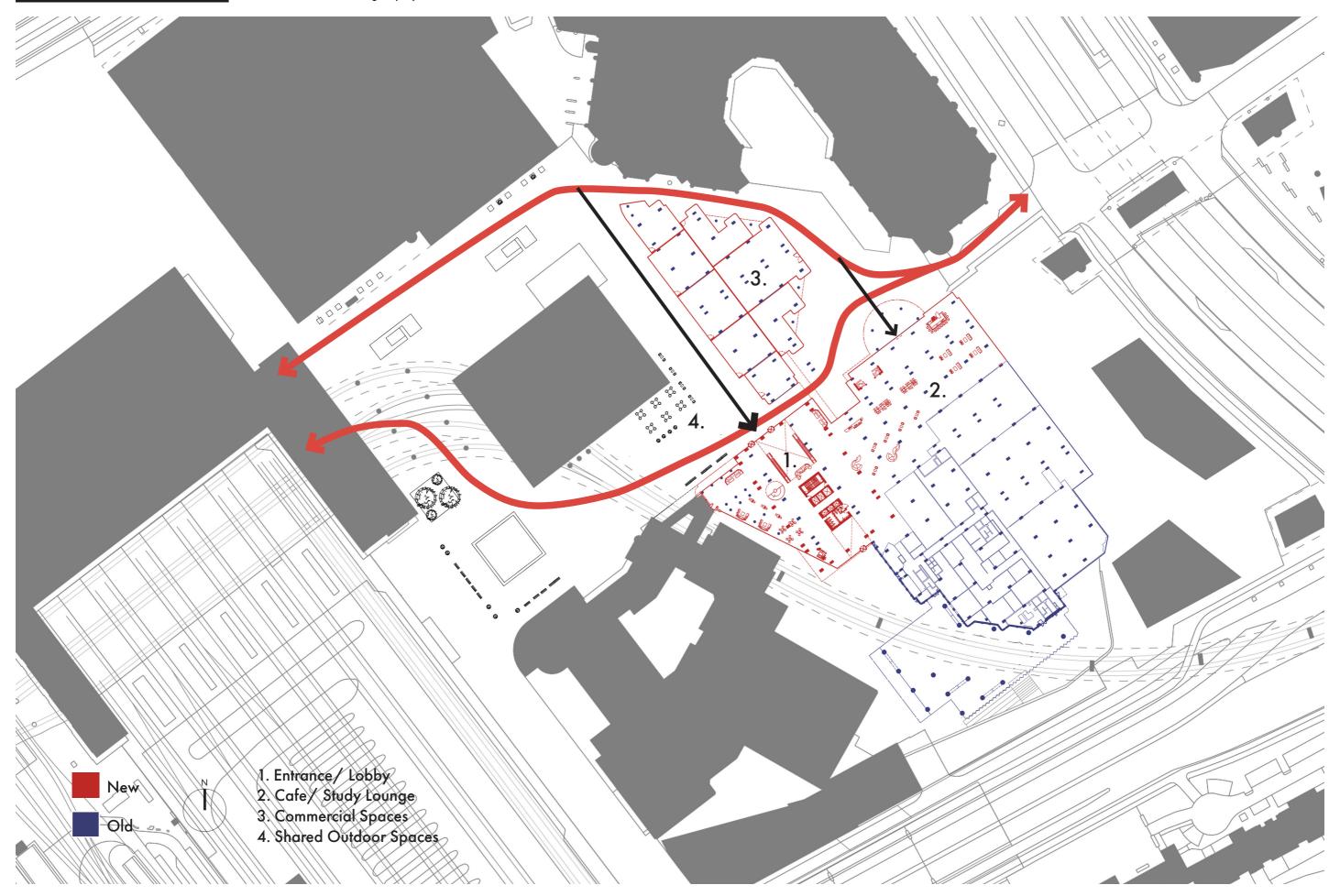


Closed-off Volumes



Demolition and Addition





Site Plan

soft edges — and hard

Scale & Rhythm



5 km/h - 3 mph



or 60 km/h - 37 mph scale





.



or closed

Appeal to Senses



Interactive



or passive

Structure & Details



nterecting



or boring

Mixed Functions



Varied



or uniform

Vertical Facade Rhythm

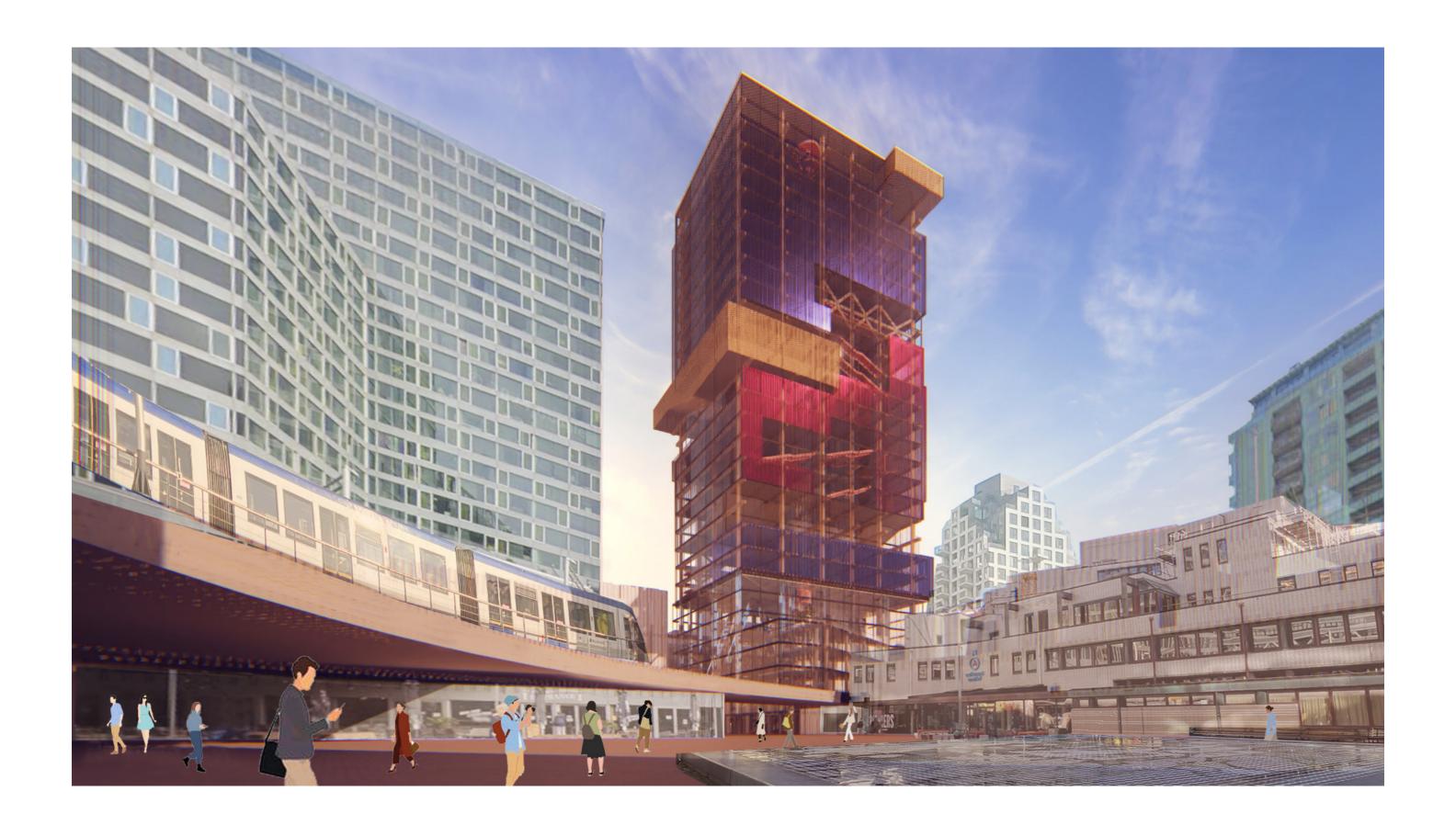


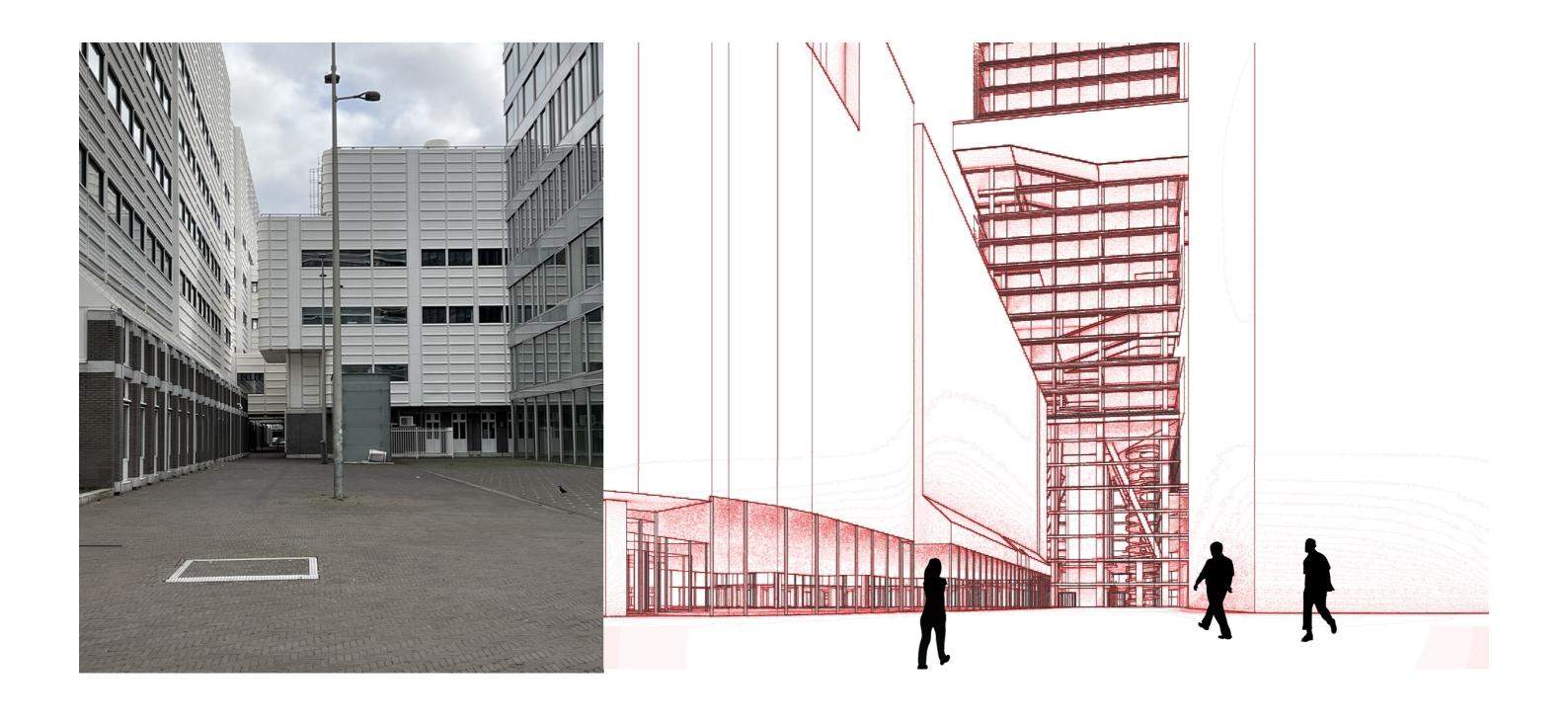
Vertical

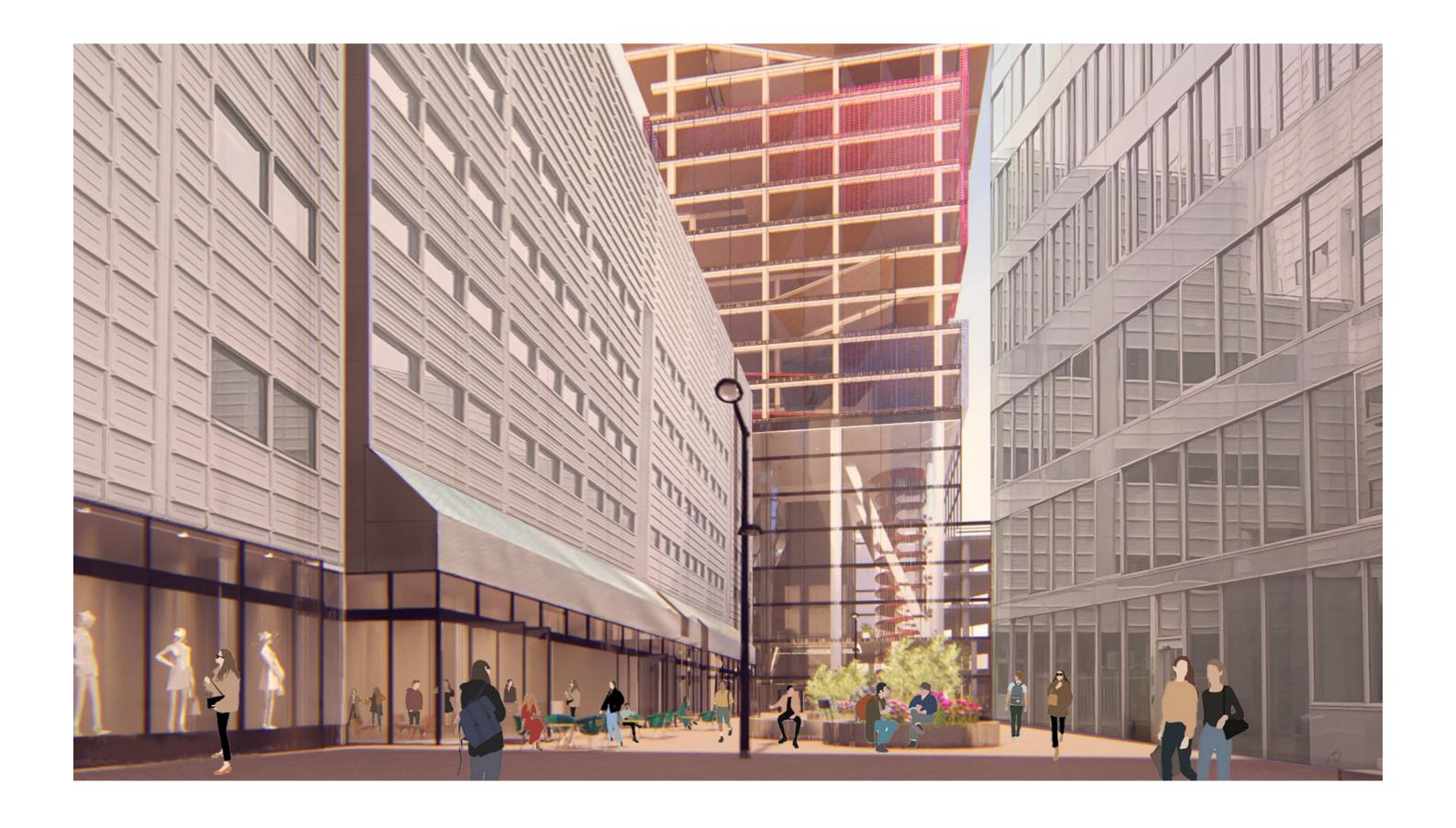


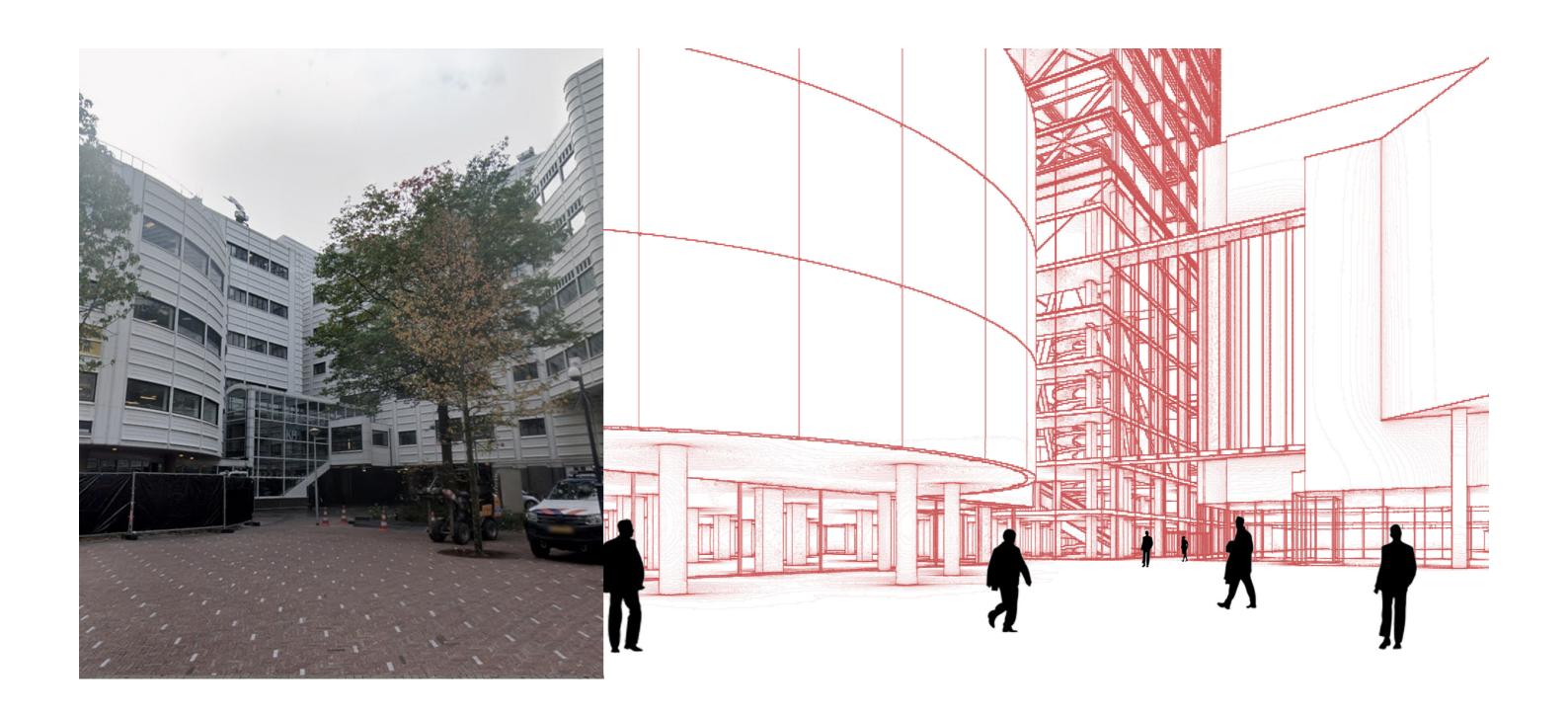
or horizontal

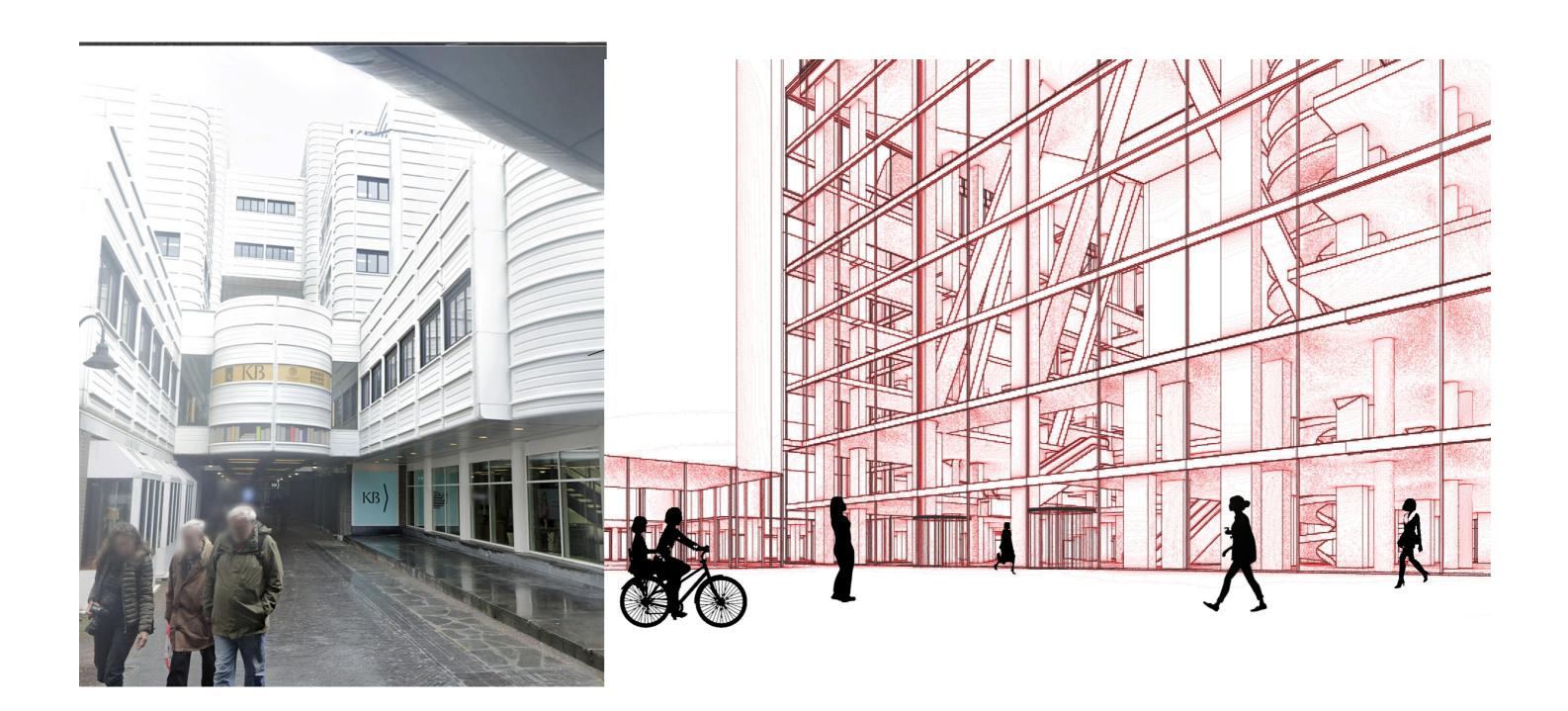
Source: "Close encounters with buildings," Urban Design International, 2006.

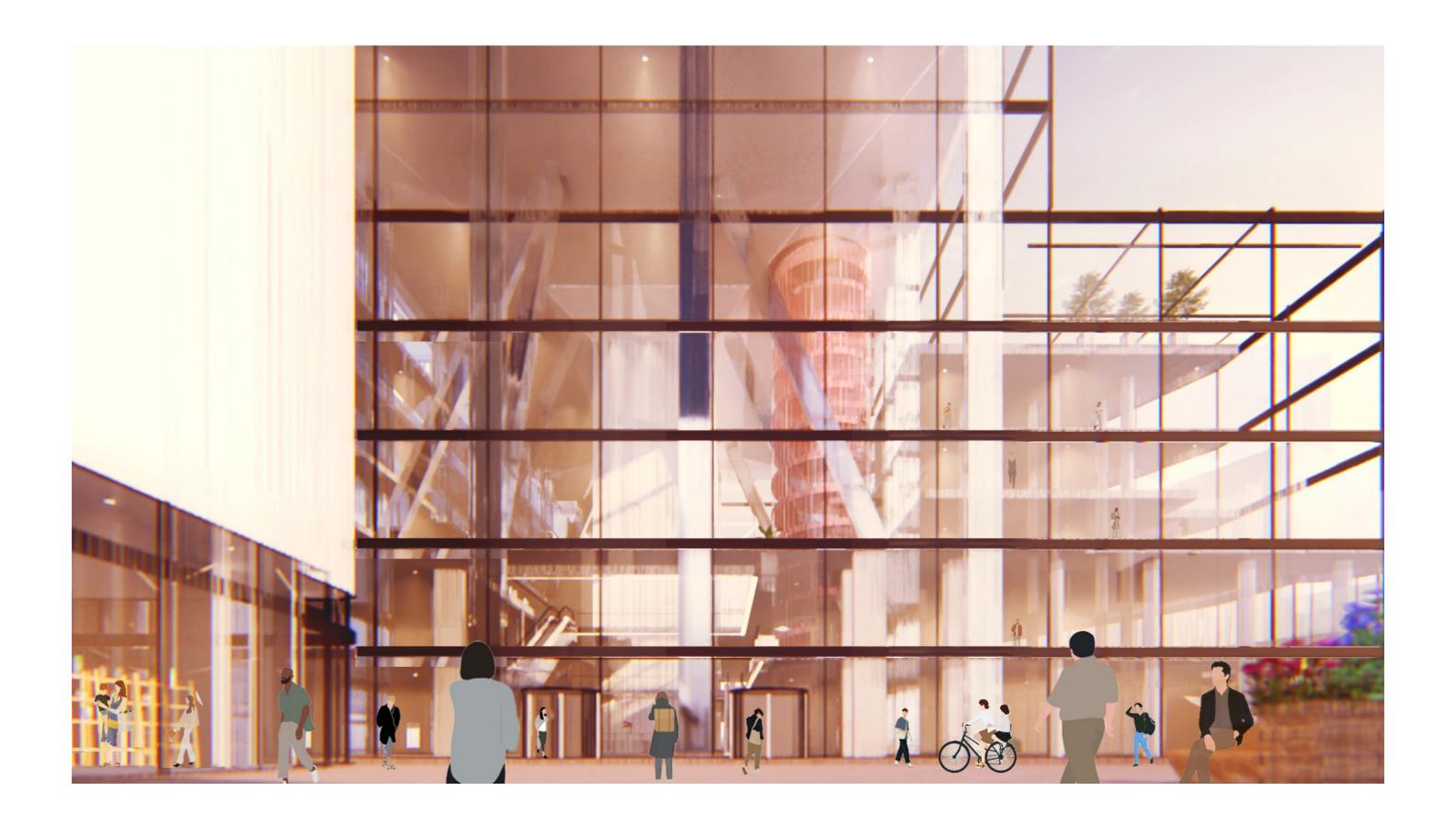


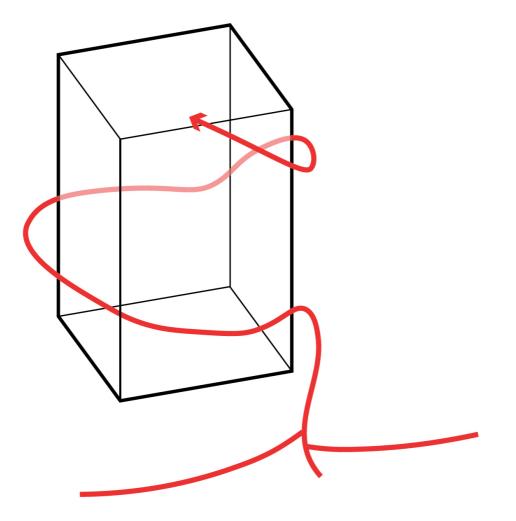




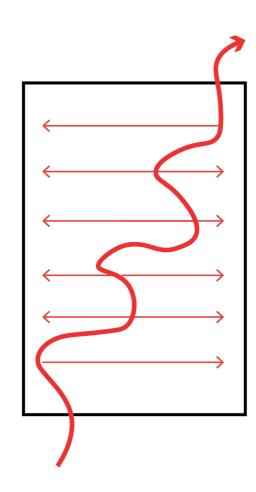




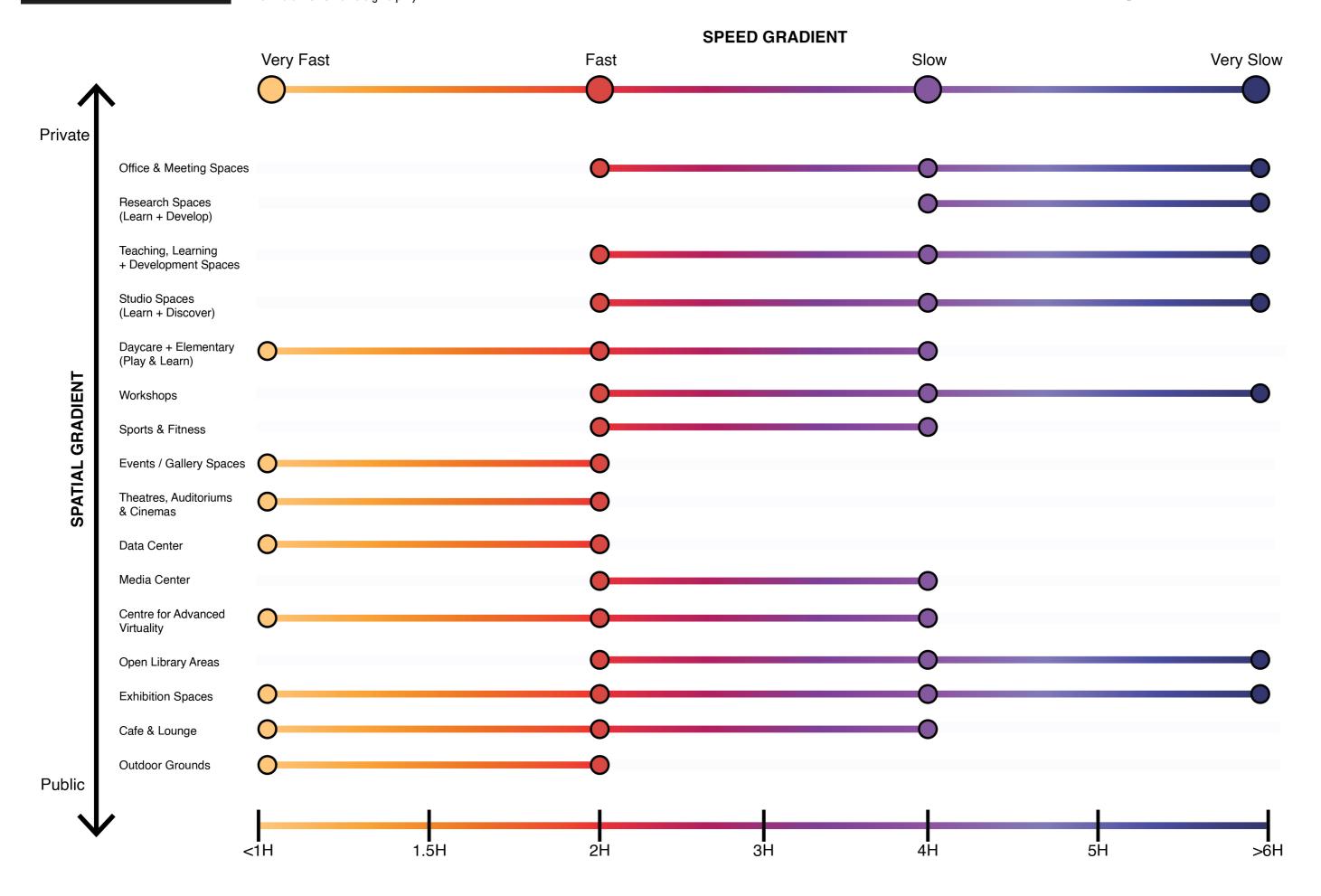


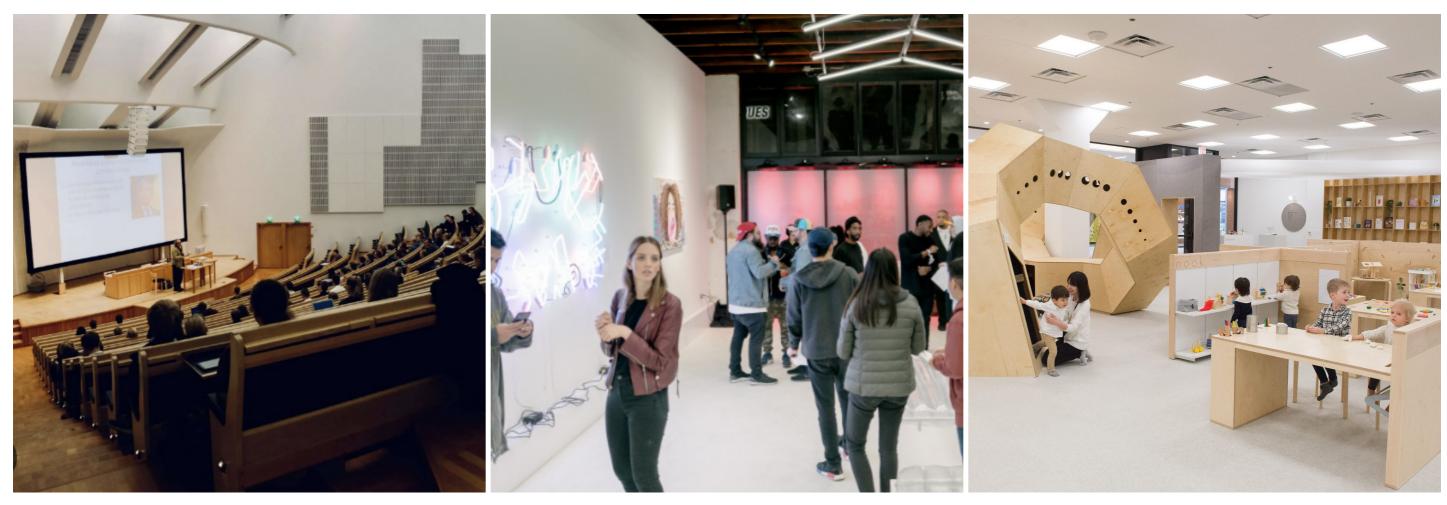


'Public Cascade' Exterior to Interior

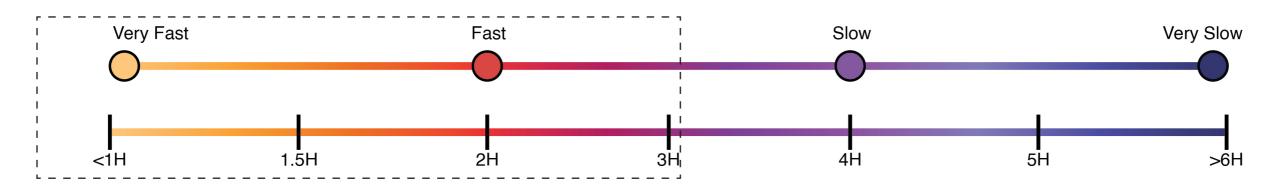


'Fast Spine' Distributing speed + 'carving spaces'





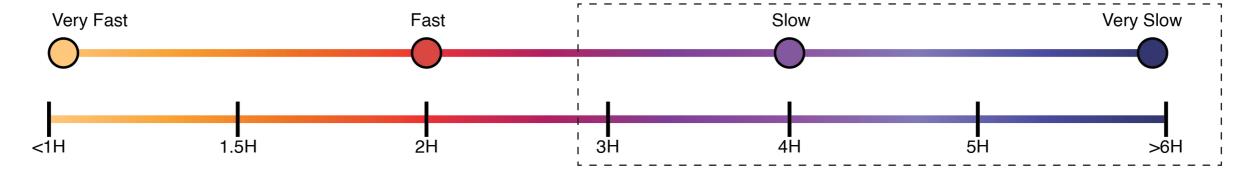
Play & Learn Lecture **Events**



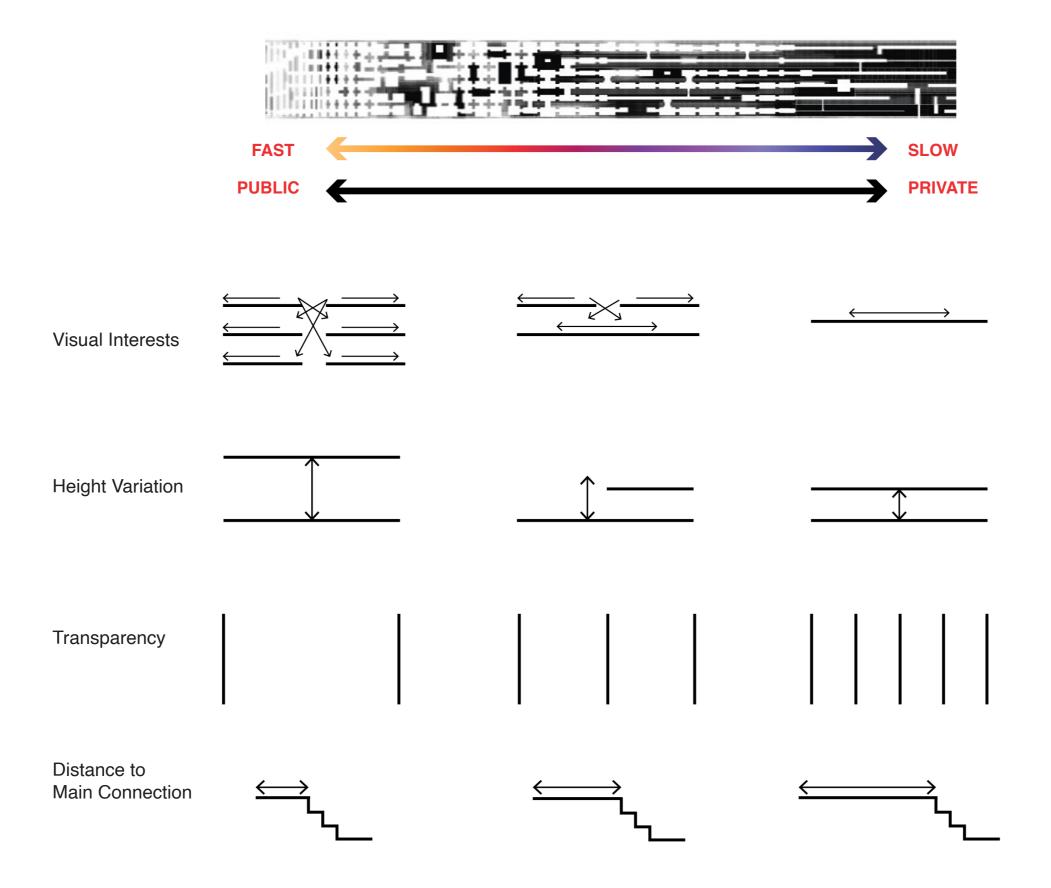
Examples of Fast Learning



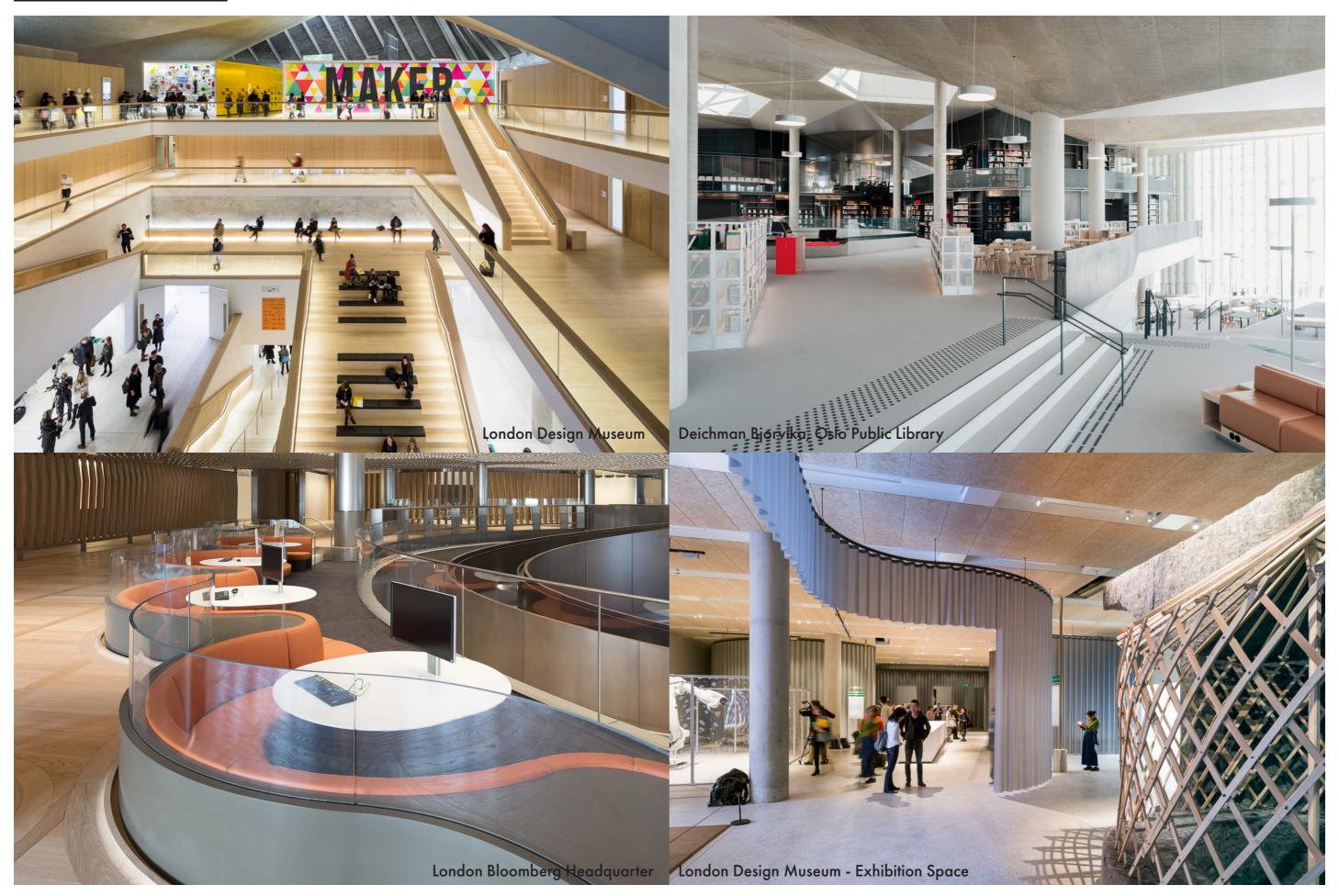
Library Focus Area Workshop Research



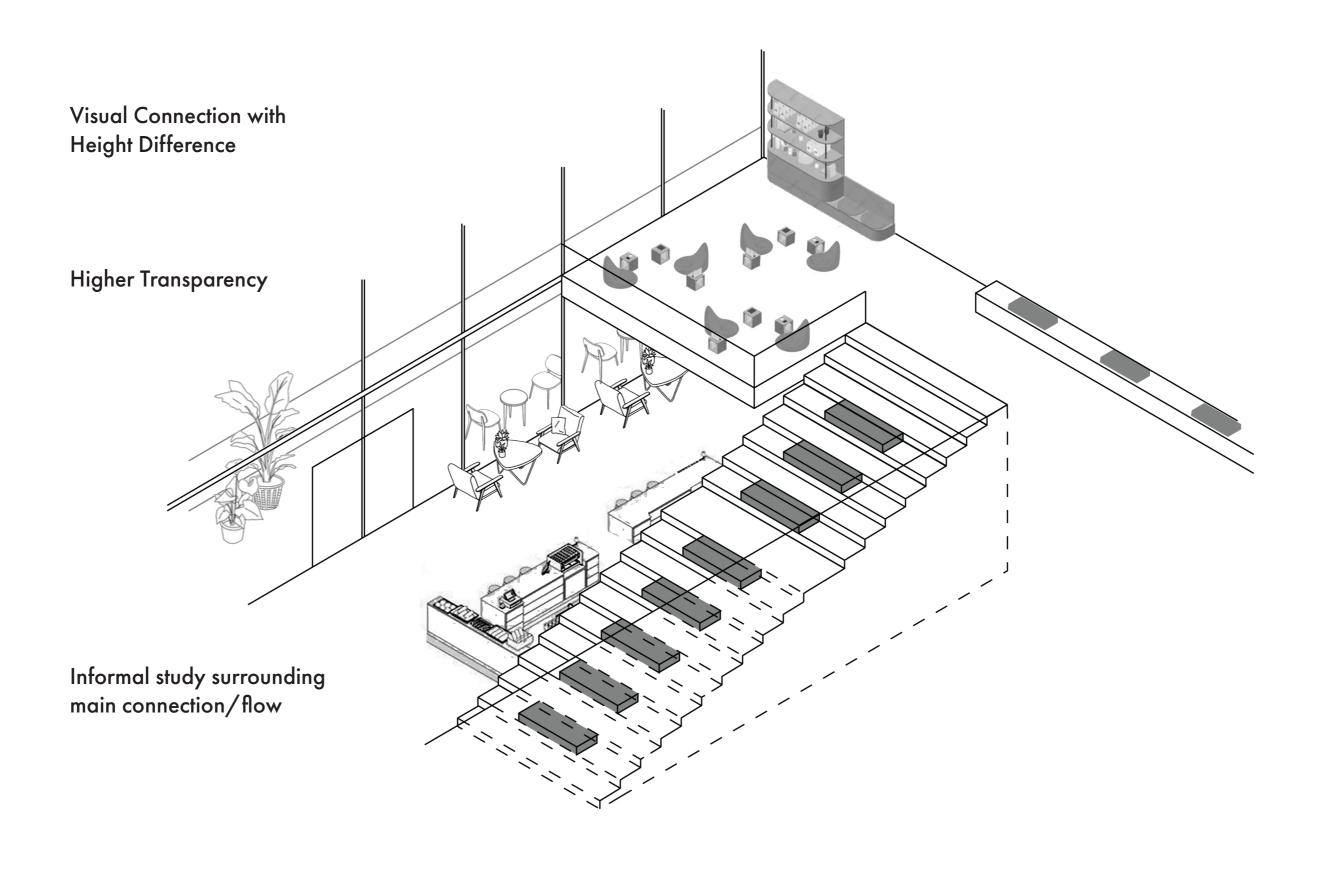
Examples of Slow Learning



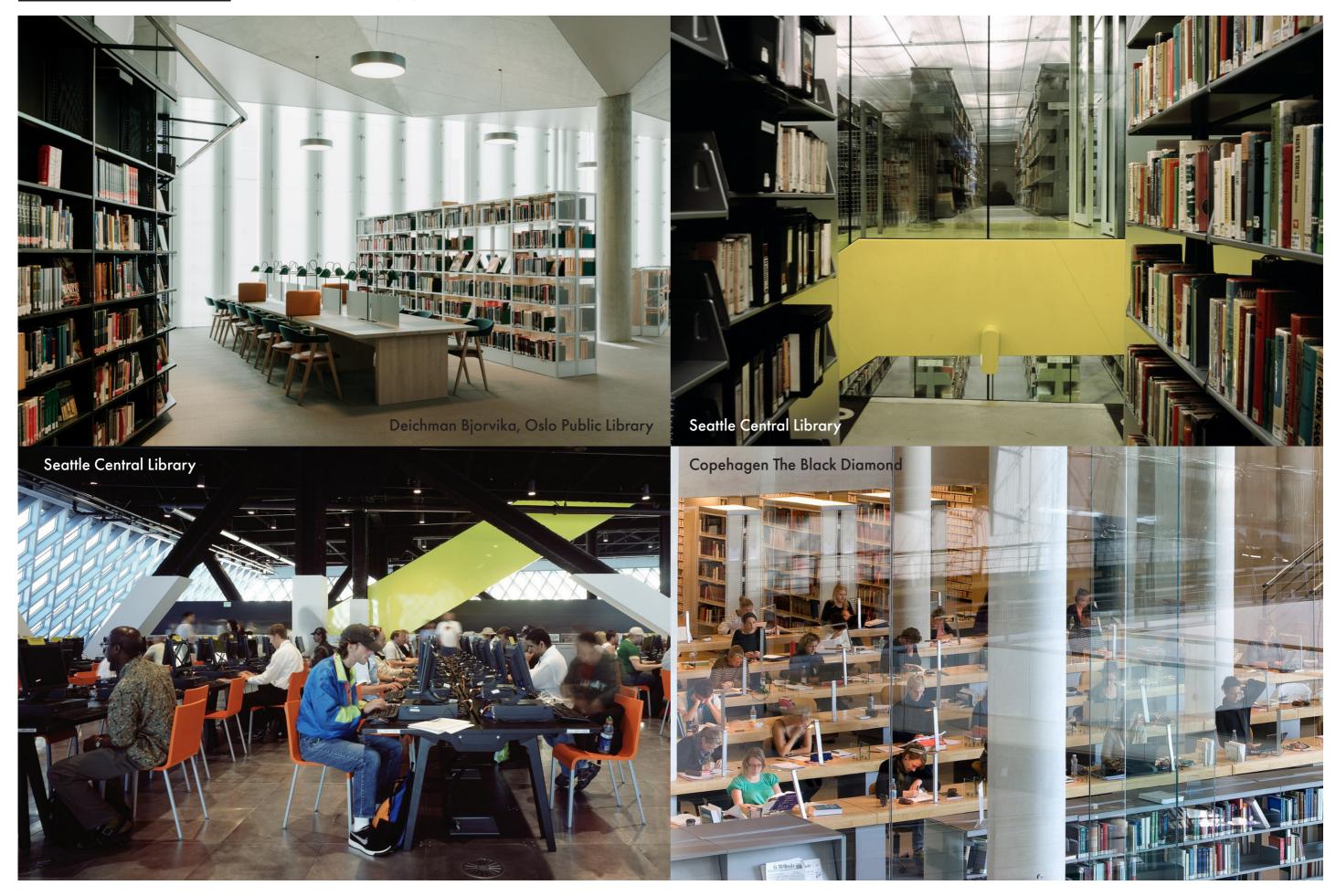
P5 Presentation The Public Choreography



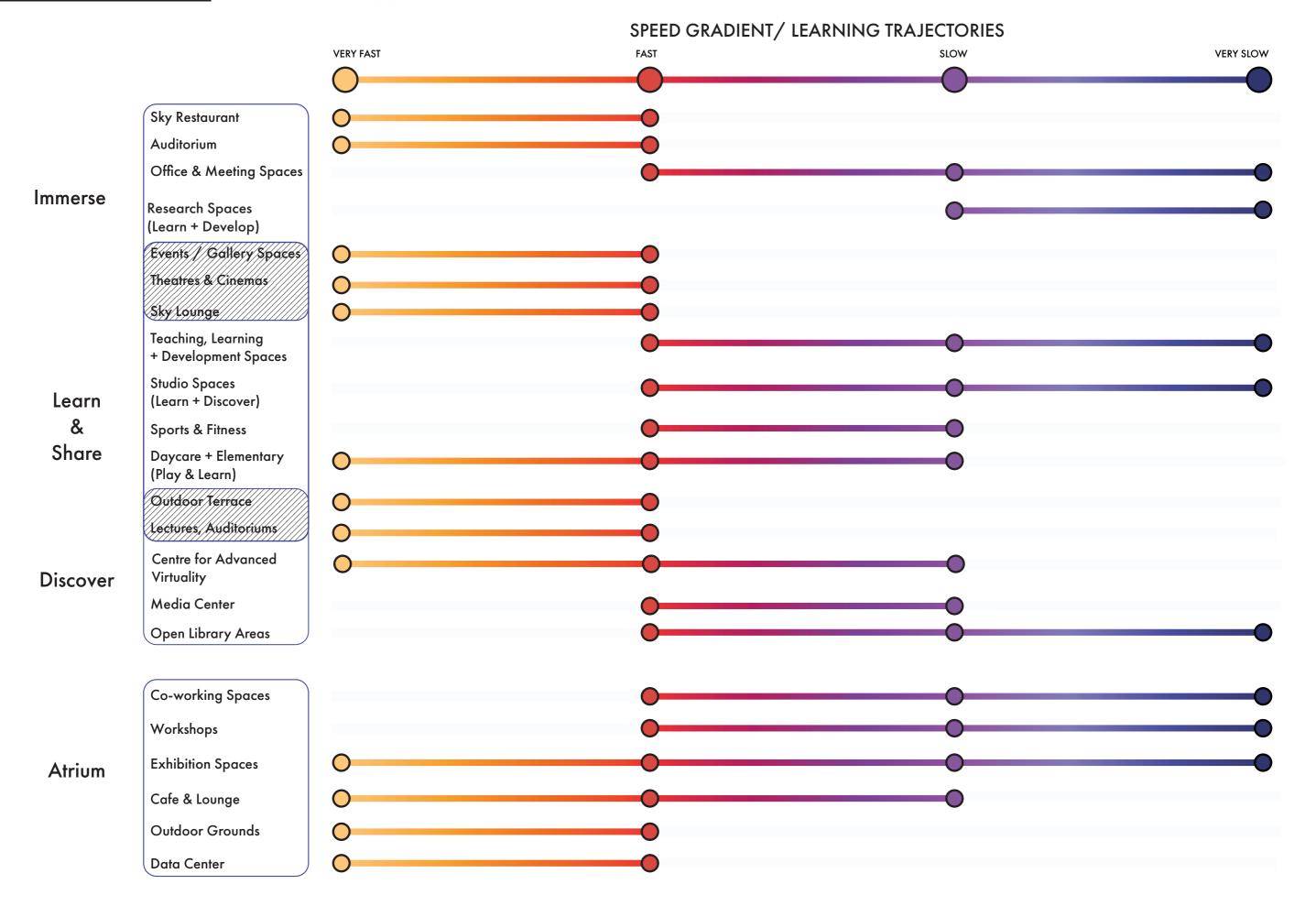
Precedents- Fast Learning Spaces/ Public & Semi-public

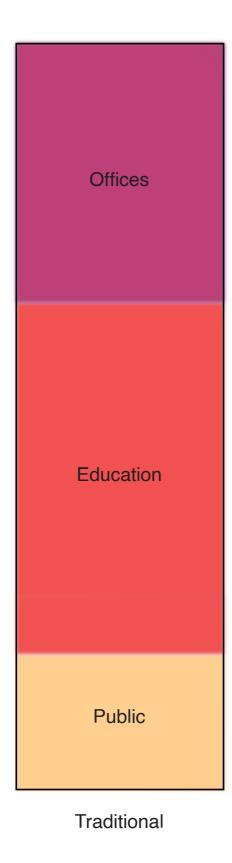


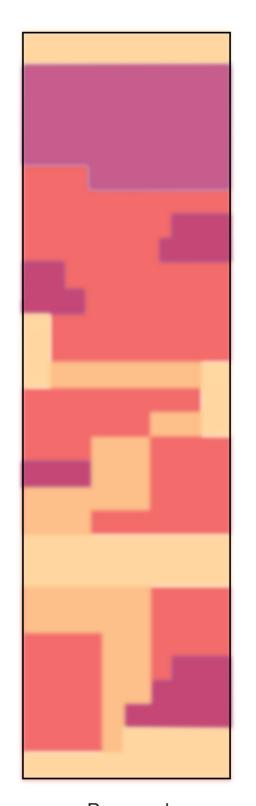
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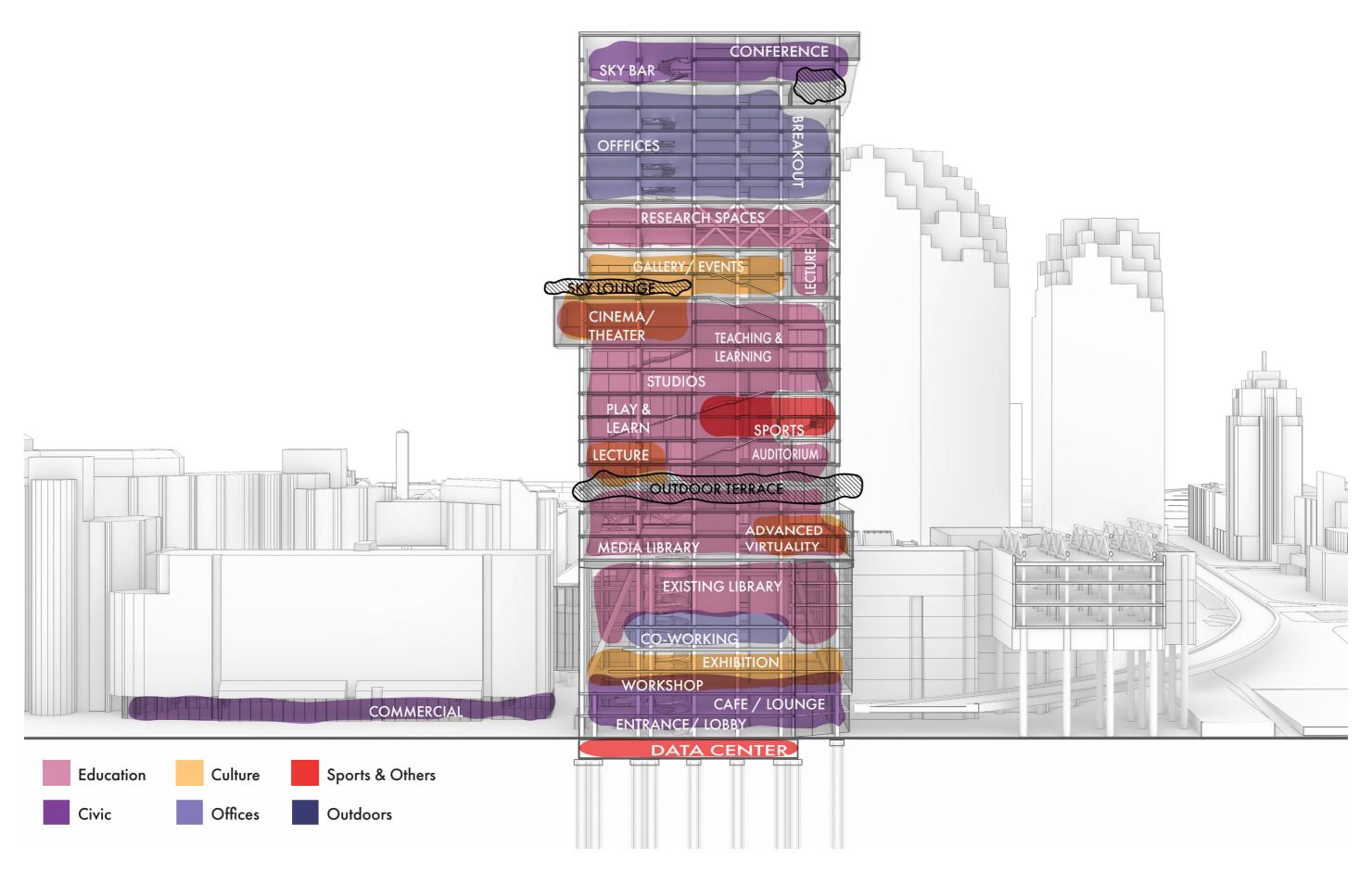


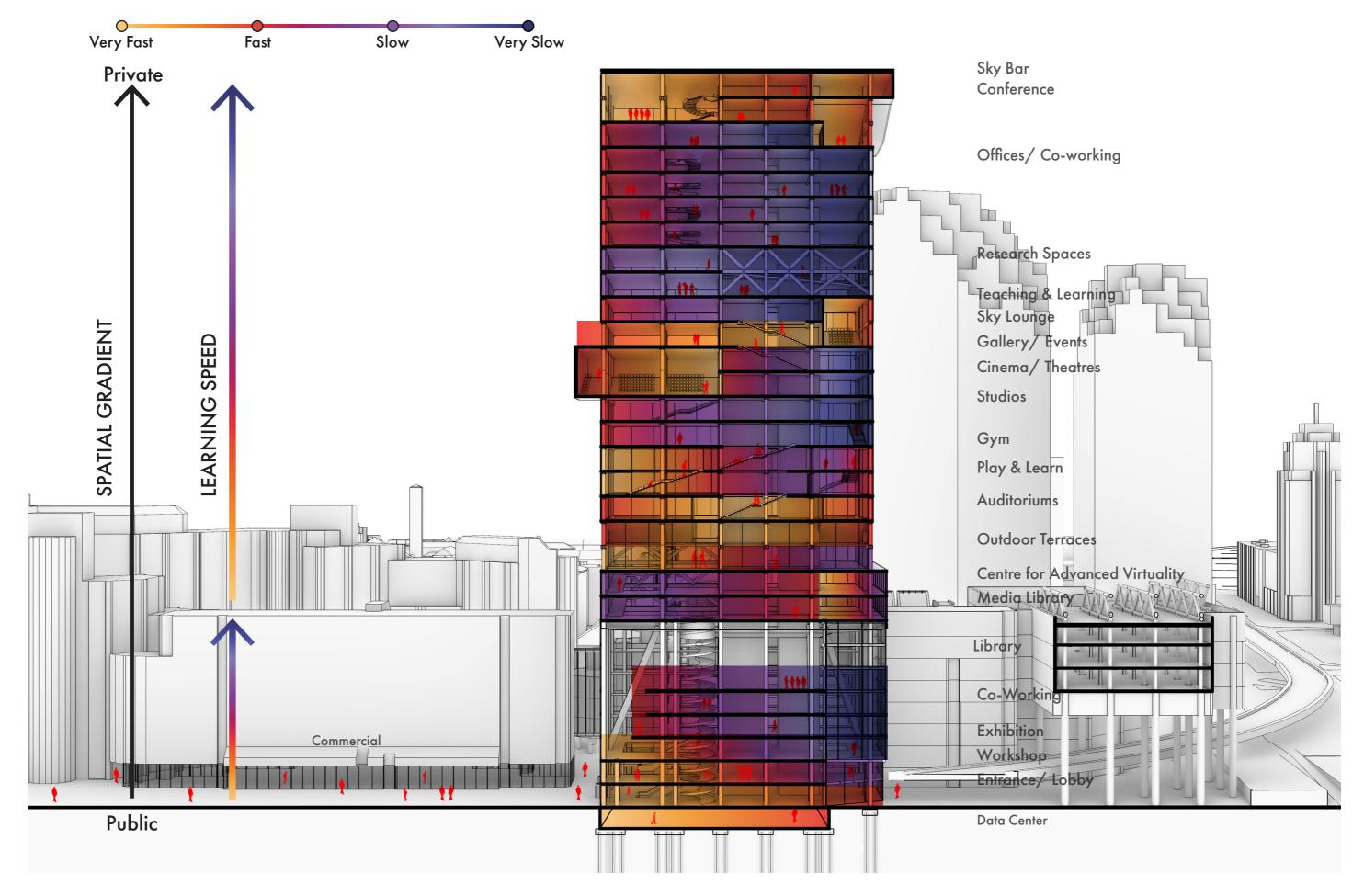
Precedents- Slow Learning Spaces/ Semi-private & Private









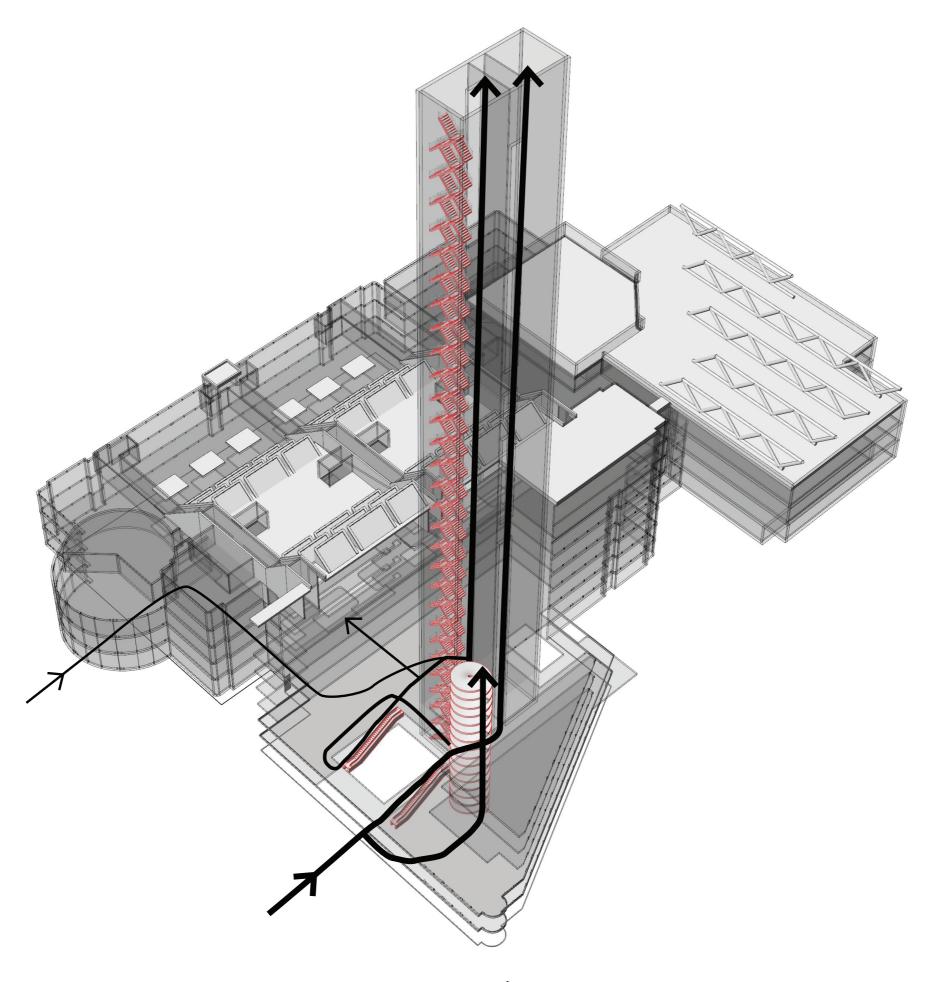


Tempo of Programs

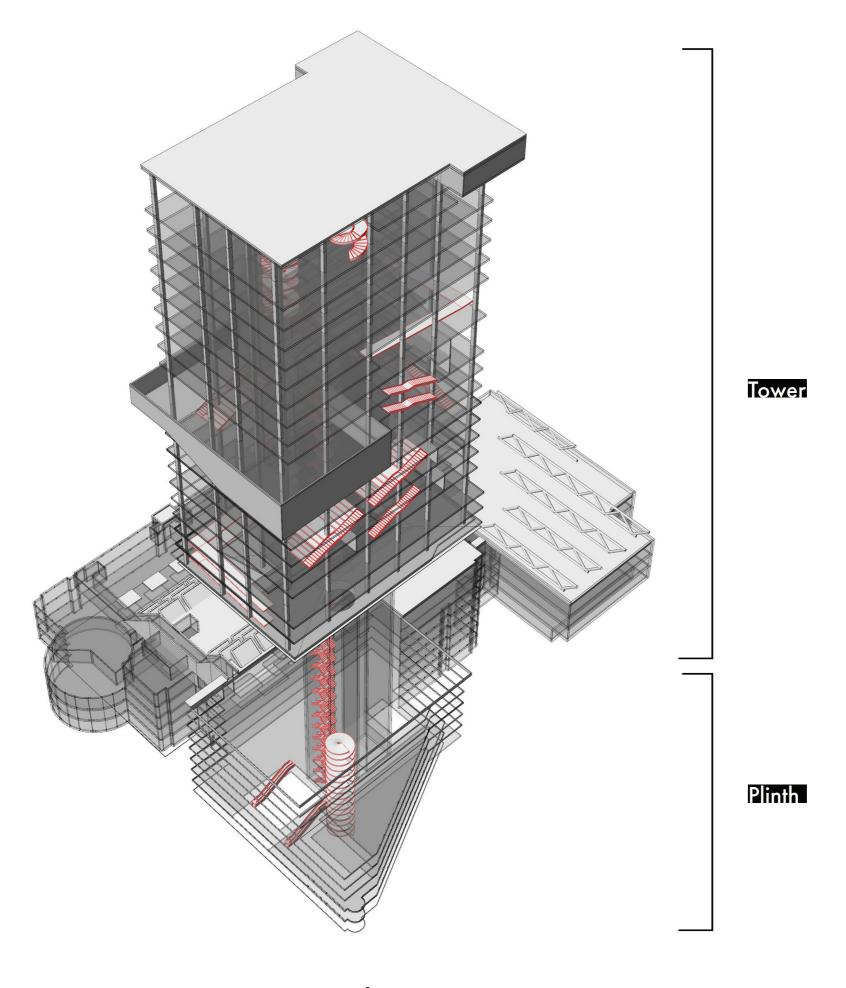


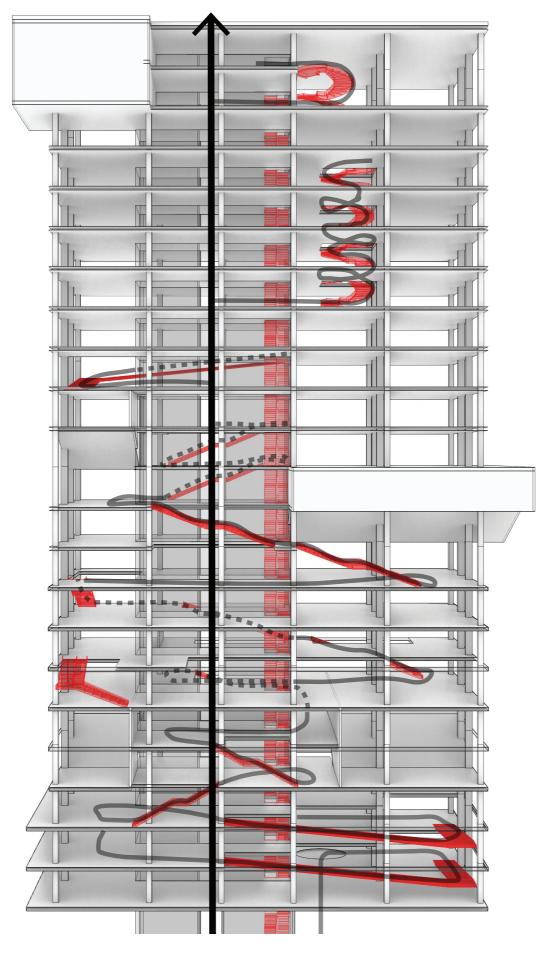


Old



Circulation / Access





Tower Circulation

NW-SE Section 59



Professor

Age: 60 (estimated)

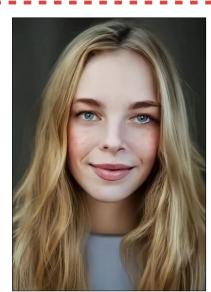
Occupation: Proffessor at Department of Public Administration Interview Location: Leiden University, location Wijnhaven, The

Education: PhD in Adminstration and Communication

Living Location: Noordwijk

Nationality: Dutch

Statement for Persona: Mr. de Ruiter is a humble professor who dedicates his time to helping and mentoring his students and sees positivity in everything in life.



STUDENT

Age: 22

Occupation: Master's student

Interview Location: The Hague (Universiteit Leiden, Turfmarkt) Education: Bachelor's Degree in Business Management

Living Location: Zoetermeer

Nationality: Dutch

Statement for Persona: She seemed very eager to learn about our research. She is an extroverted person but still has not

adapted to the new educational environment.



HTM EMPLOYEE

Age: 45 (estimated)

Occupation: Ticket seller mainly at The Hague Central Station,

sometimes Delft and Holland Spoor

Interview Location: The Hague (at The Hague Central Station)

Education: Vocational Studies Living Location: The Hague

Nationality: Dutch

Statement for Persona: Seemed friendly, kind and approachable when asking for help, however less approachable when asking about personal matters. He usually travels 20 minutes by tram

to the central station.



Security guard University of Leiden

Age: 59

Occupation: Sercurity / receptionist at the library Education: Vocational education and training (BBL)

Living Location: The Hague Nationality: Netherlands

Statement for Persona: She seems to be enjoying to work with, meet with and talk with new people and has a passion for read-

ing romantic thrillers



ARCHITECT / HUMAN ACTIVIST

Age: 38 (estimated)

Occupation: Architect (Human Activist part-time)

Interview Location: The Haque (in front of Tweede Kamer der

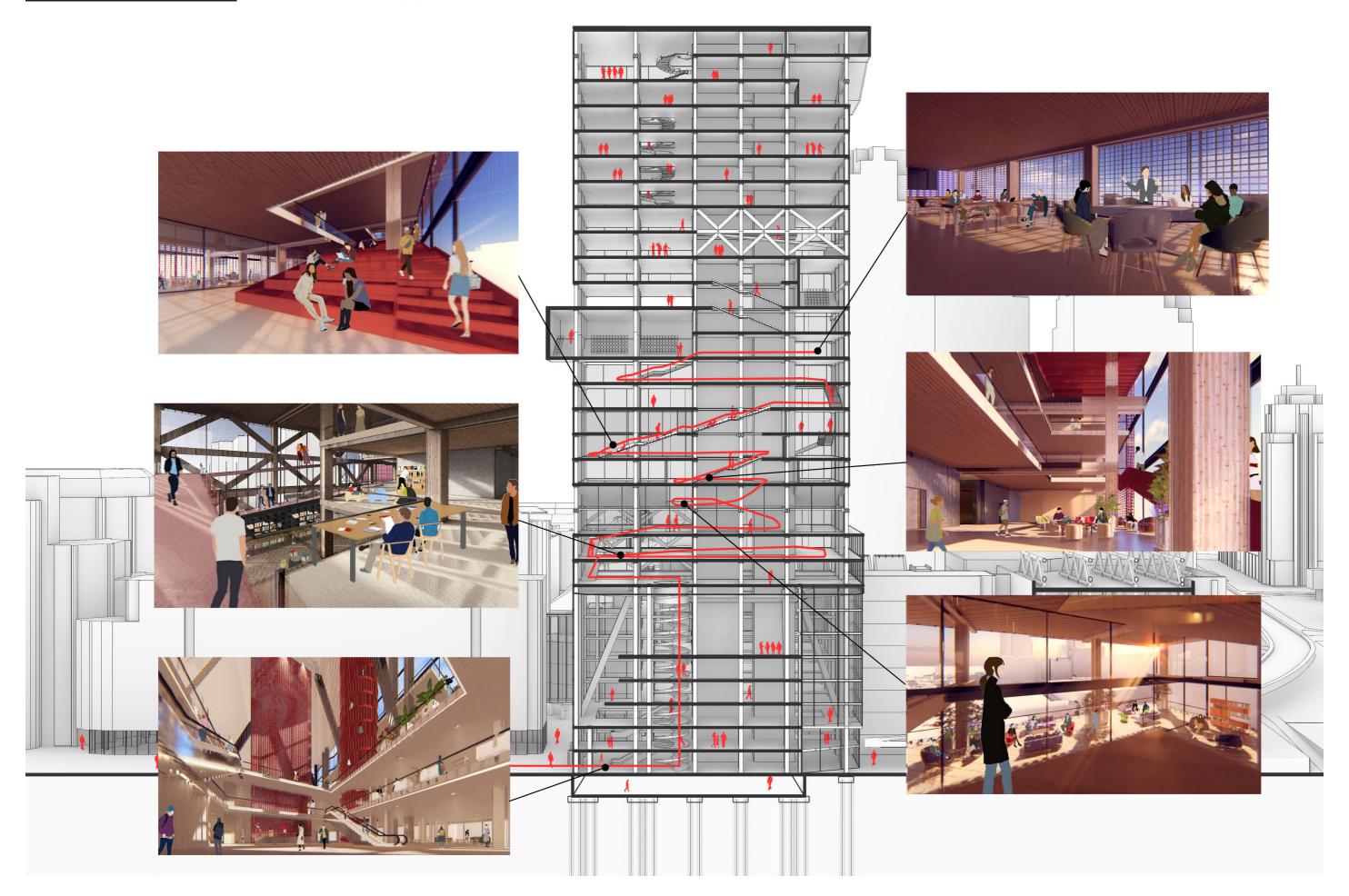
Staten-Generaal

Education: Equivalent to Qualified Architect

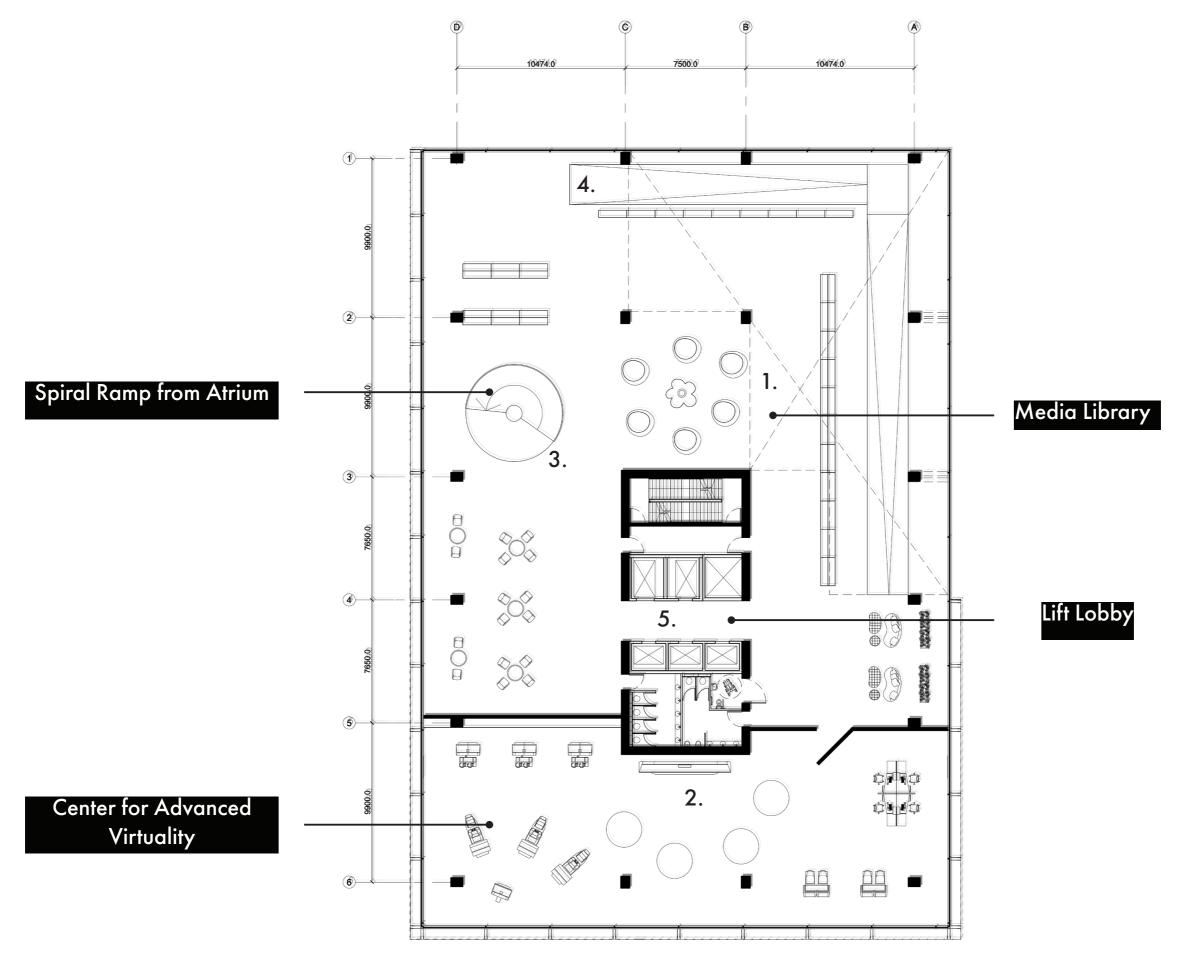
Living Location: Amsterdam

Nationality: Iranian

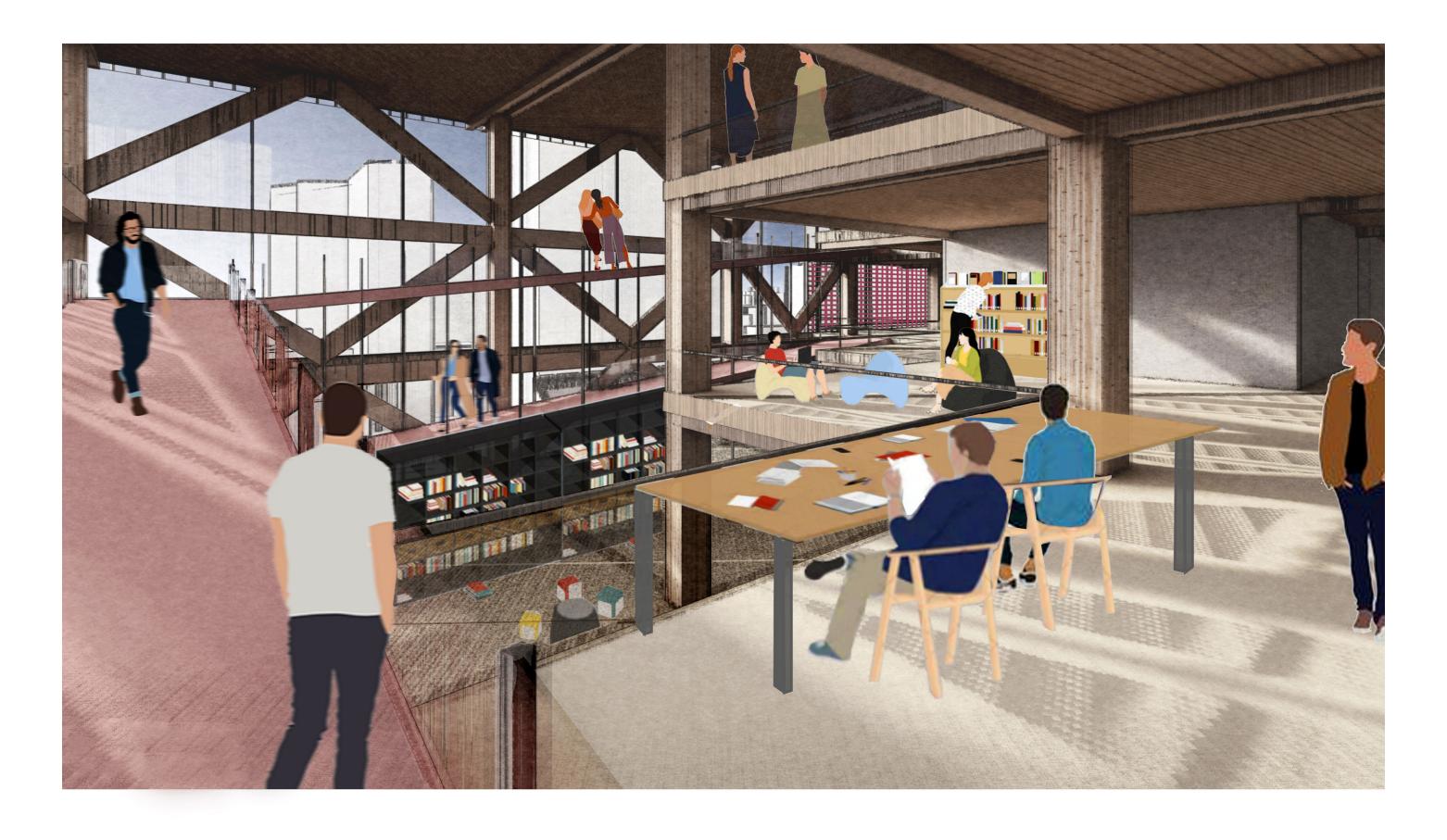
Statement for Persona: She seems to be a passionate individual staying true to her upbringing and background, always thinking for all walks of life through peaceful protest and architecture. P5 Presentation The Public Choreography







8th Floor Plan

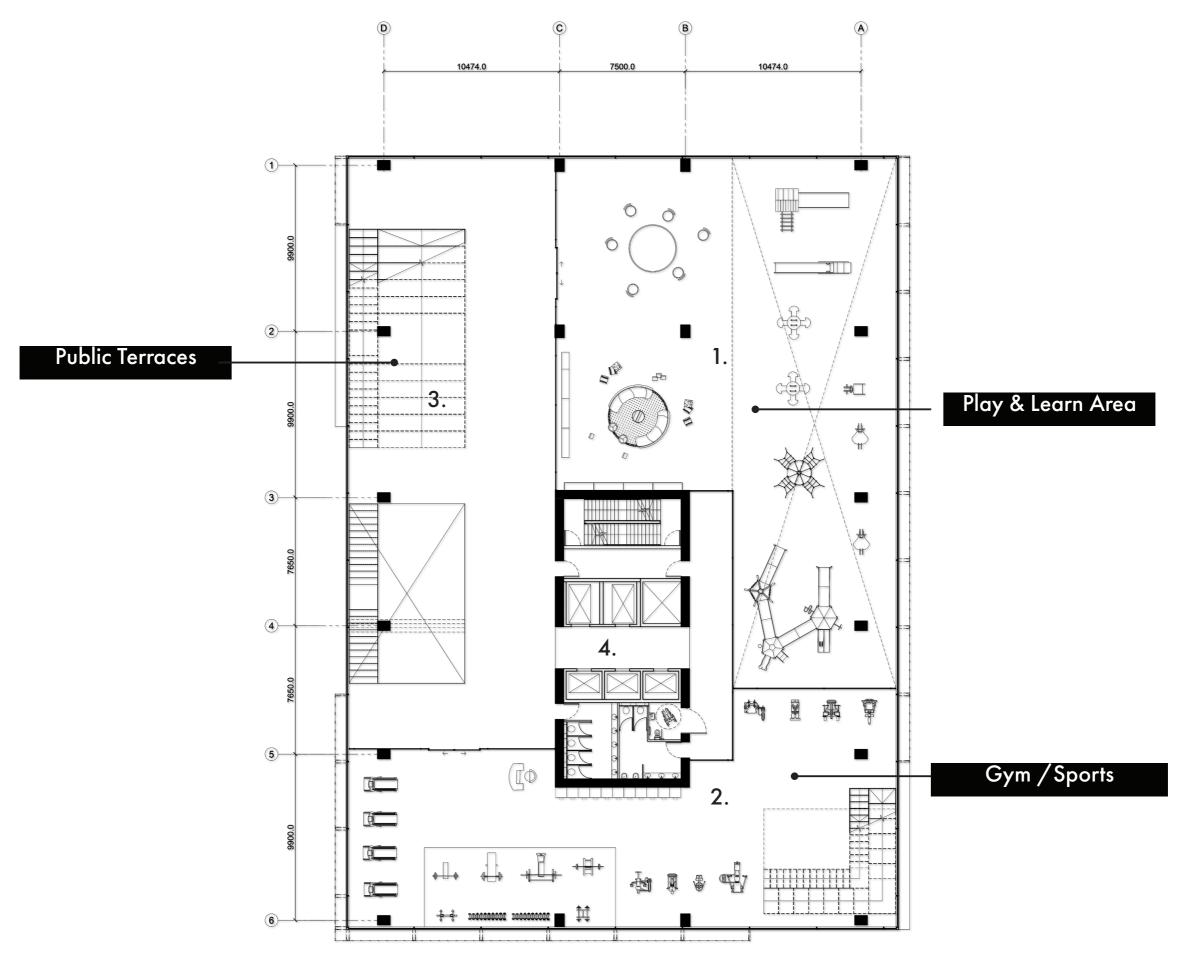


Interior Impression (Fast Learning Spaces)



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13th Floor Plan

The Public Choreography

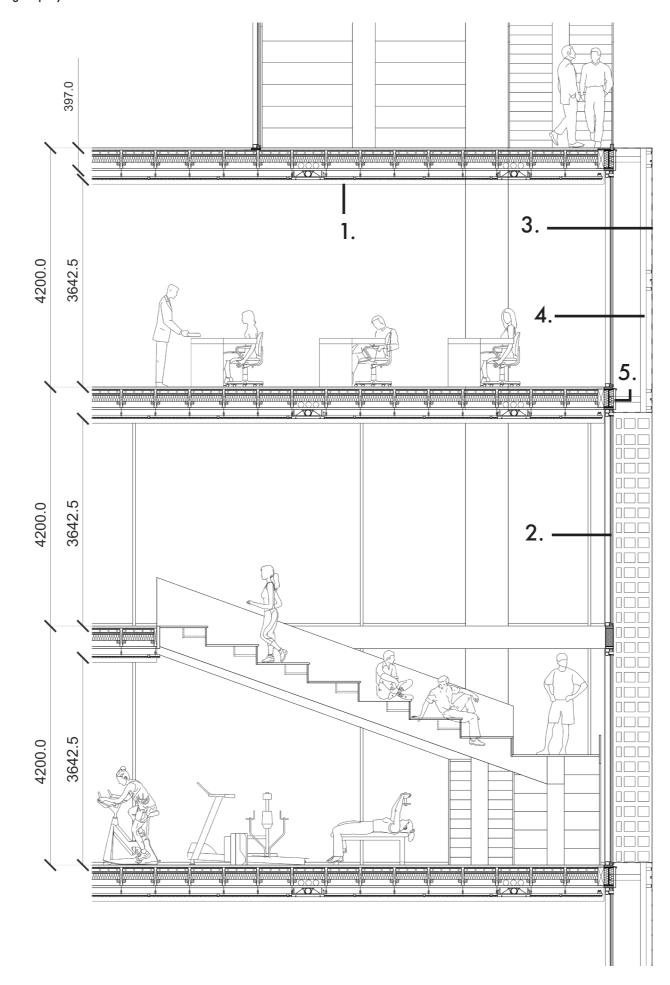


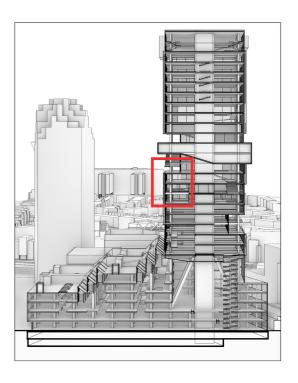


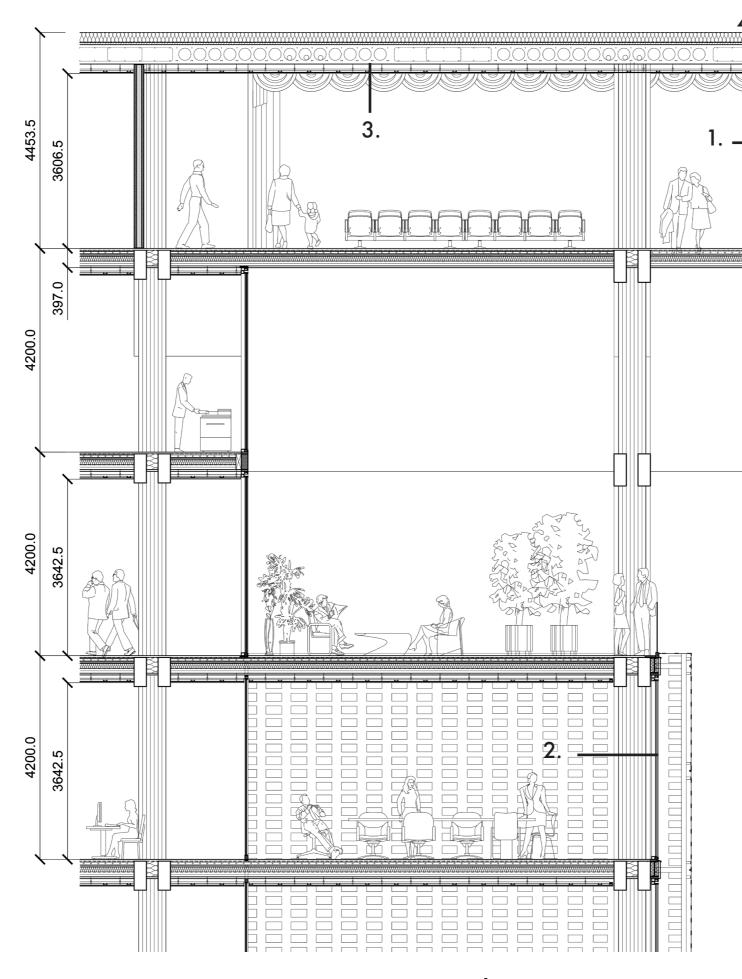


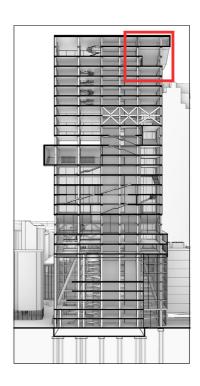


- 1. 36.5 LVL Floor Panel
- 24mm Concrete Screed
- 50mm Concrete Floor Heating
- 40mm Rockwool Sound Insulation
- 100mm Wood wool Insulation
- Vapour Membrane
- 51 mmx 325mm LVL Floor Beams/Ribs with floor battens
- 36mm LVL Bottom Floor Panel
- Suspended Ceiling + Cove lights
- Mounting Tracks
- Acoustic Backing
- Timber battens with linear lights flushed
- 2. Doubled Glazed Wall Panel:
- 8mm Float Glass + 16mm Argon Filled Cavity + 22mm Laminated Safety Glass
- 3. Painted Copper Sheet, Perforated (2300mm/3900mm/4mm) fastening via stainless steel screws on powder coated substructure
- 4. Flat steel (100/6mm)
- 5. Coated MDF Board
- Rigid Foam Board Insulation
- -Angle bracket connected back to I-beam
- 6. Chilled Beam Units

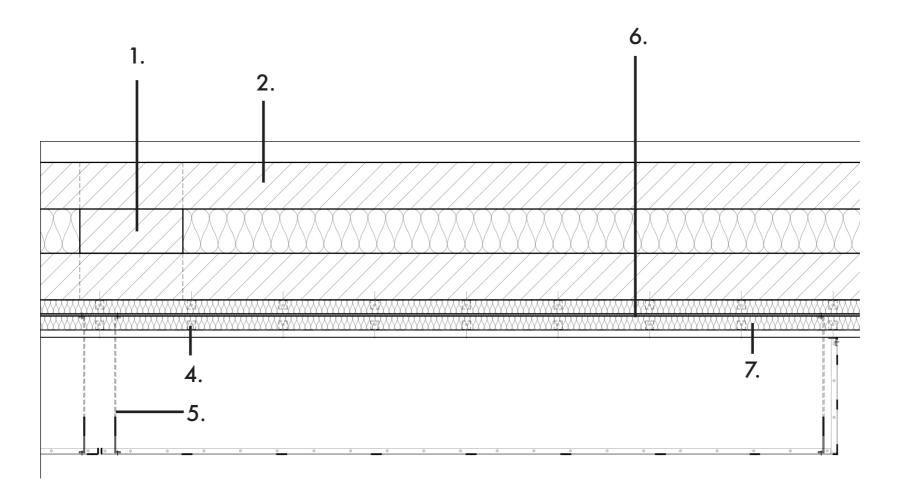




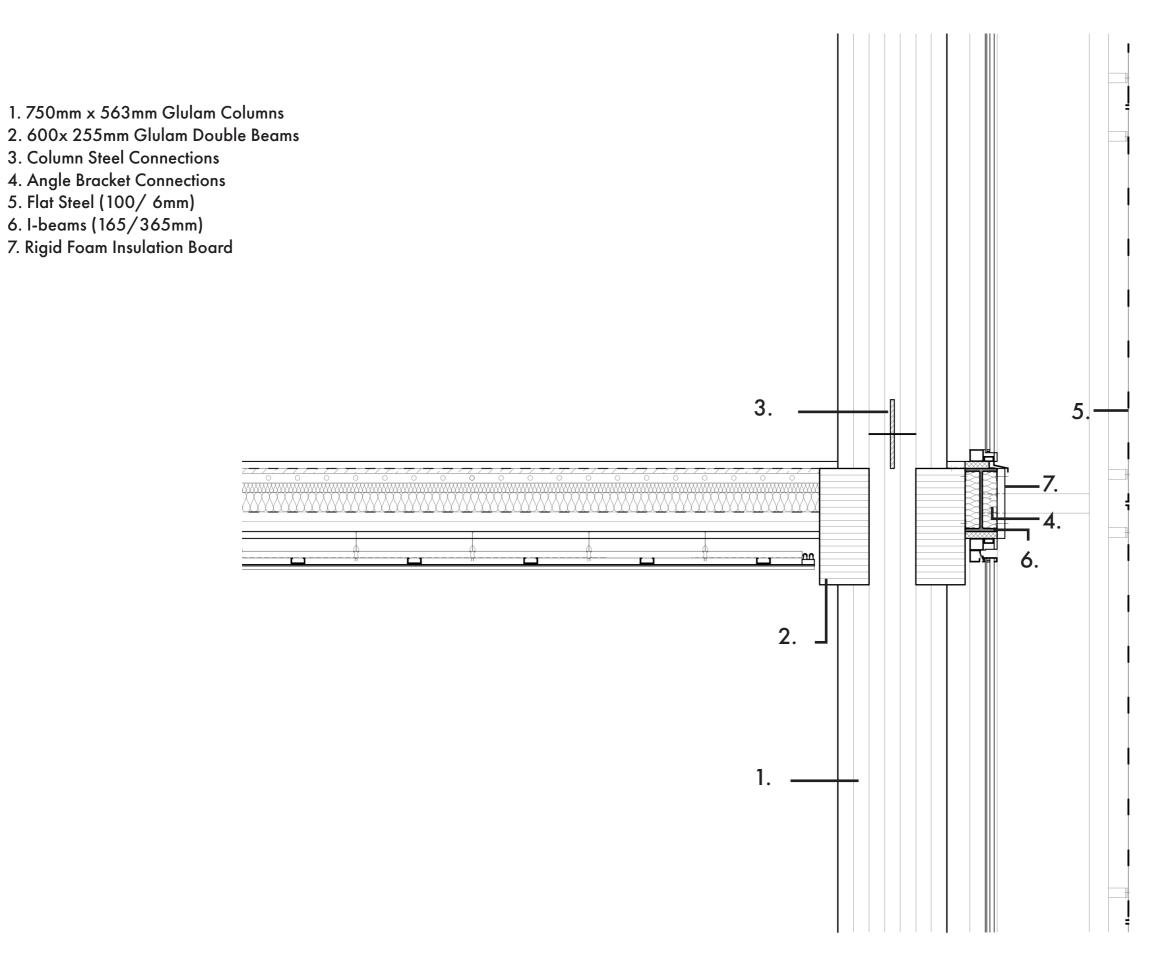




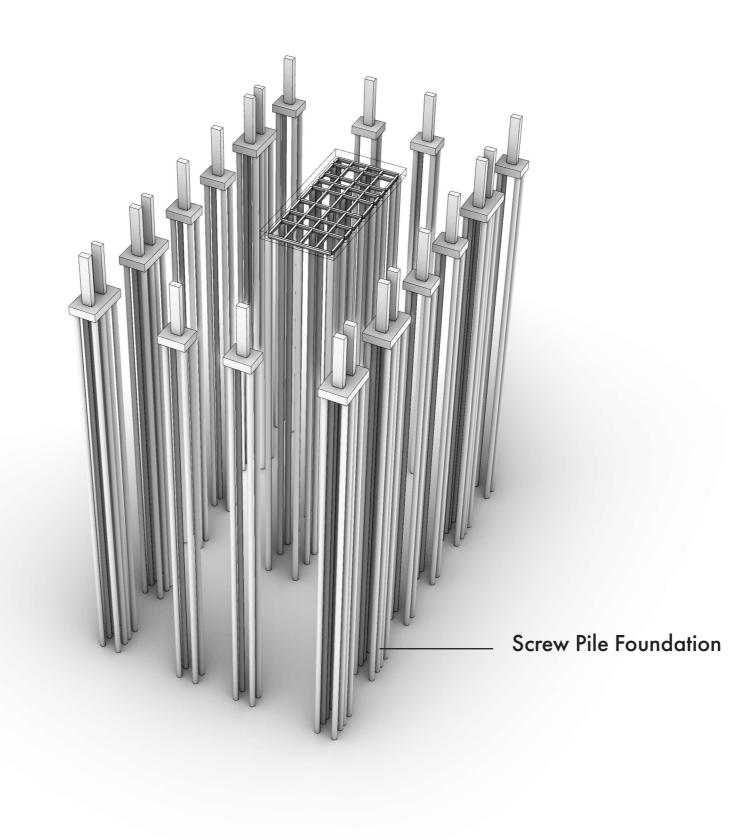
- 1. 20mm Interior Acoustic Wall Lining
- 50mm Rockwool Sound Insulation
- 20mm Wood Wool Insulation
- 21 mm Ventilated Cavity
- 21 mm Wood Panel Cladding
- 2. 22mm Anti-reflective glass
- Embedding Layer
- Solar Cells
- Embedding Layer
- 8mm Rear Glass
- 3. -Damp Proof Membrane
- 200mm Wood wool Insulation
- 50mm Concrete Screed
- 400mm Hollowcore Slab with Beam Strips
- Vapour Membrane
- 4. Steel Roof Flashing



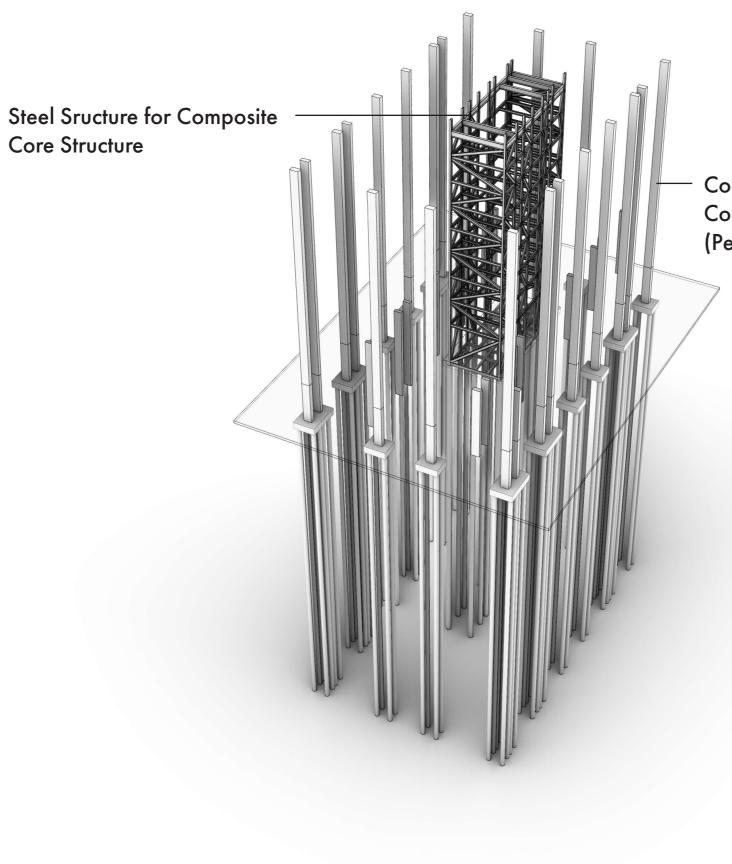
- 1. 750mm x 563mm Glulam Columns
- 2. 600x 255mm Glulam Double Beams
- 3. Column Steel Connections
- 4. Angle Bracket Connections
- 5. Flat Steel (100/6mm)
- 6. I-beams (165/365mm)
- 7. Rigid Foam Insulation Board



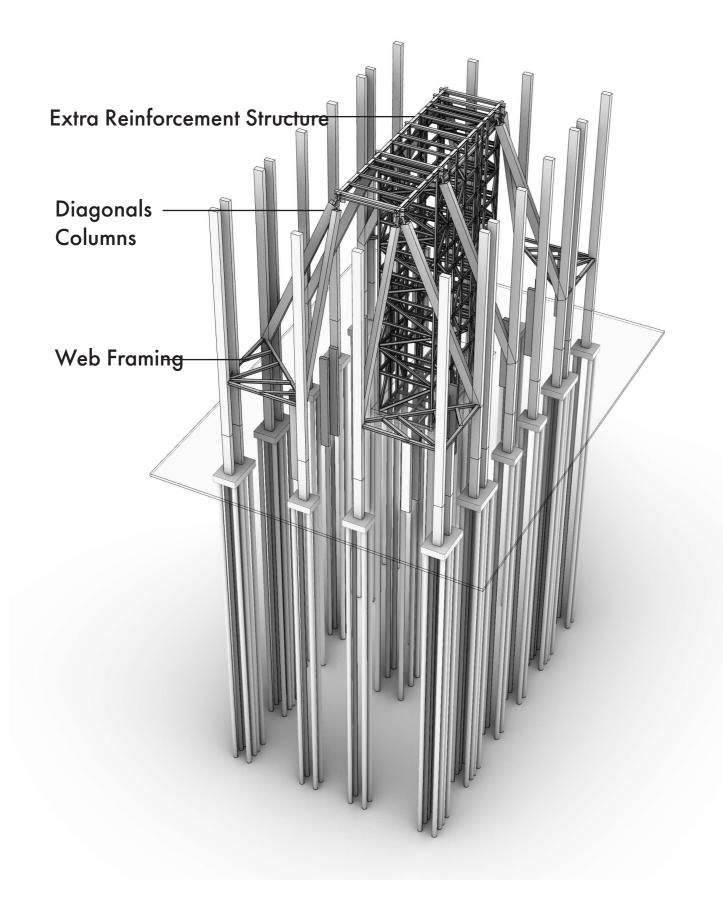
1:20 Facade Detail

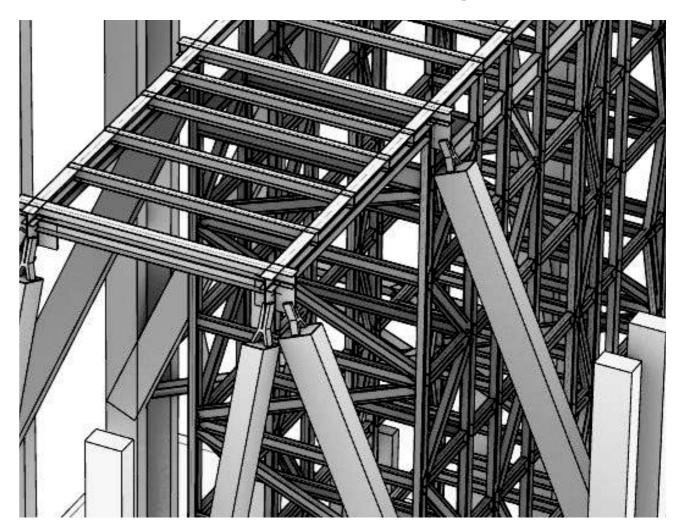


Structural Diagram

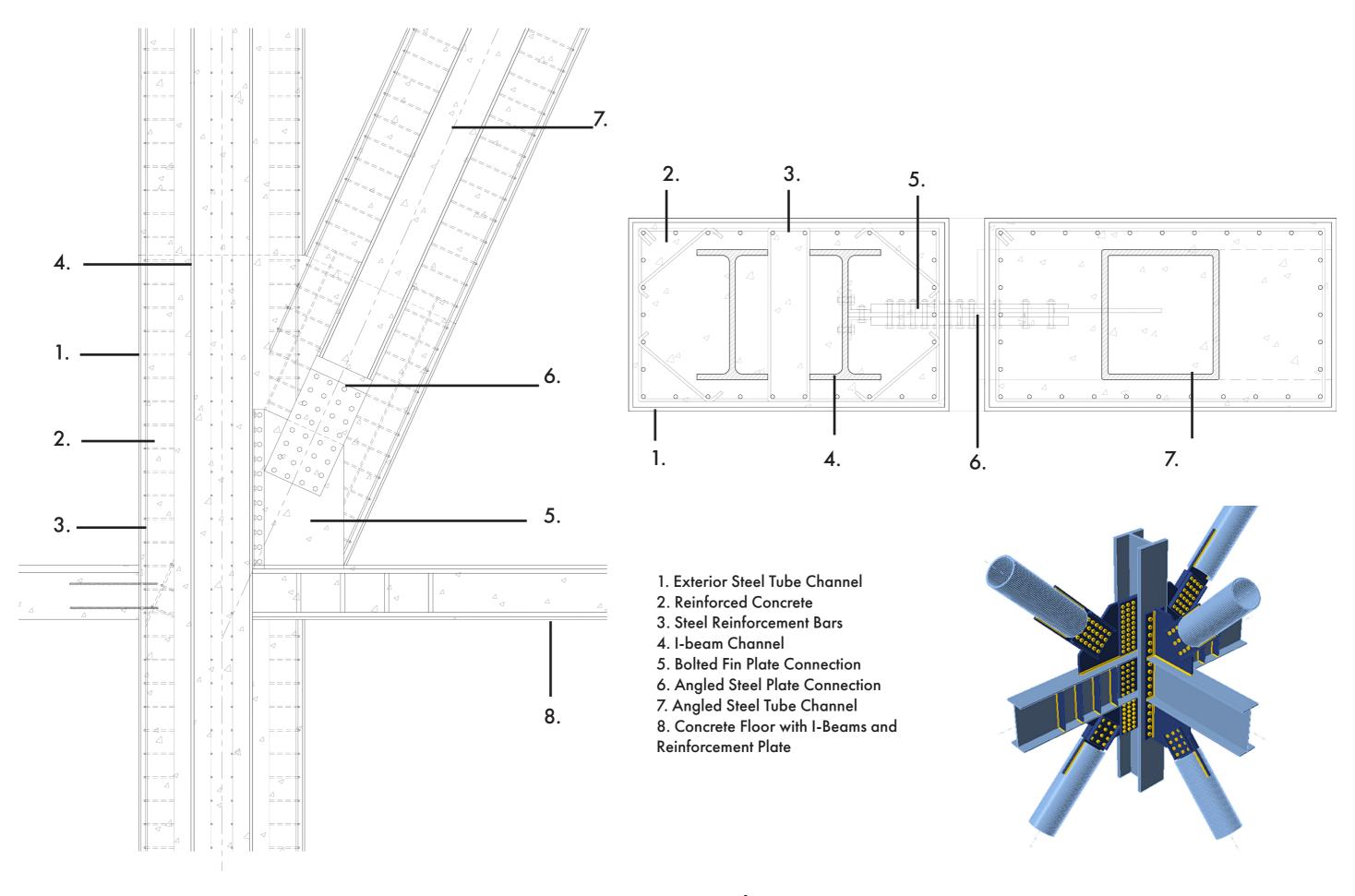


Composite Reinforced Concrete
Columns
(Perimeter of Tower)

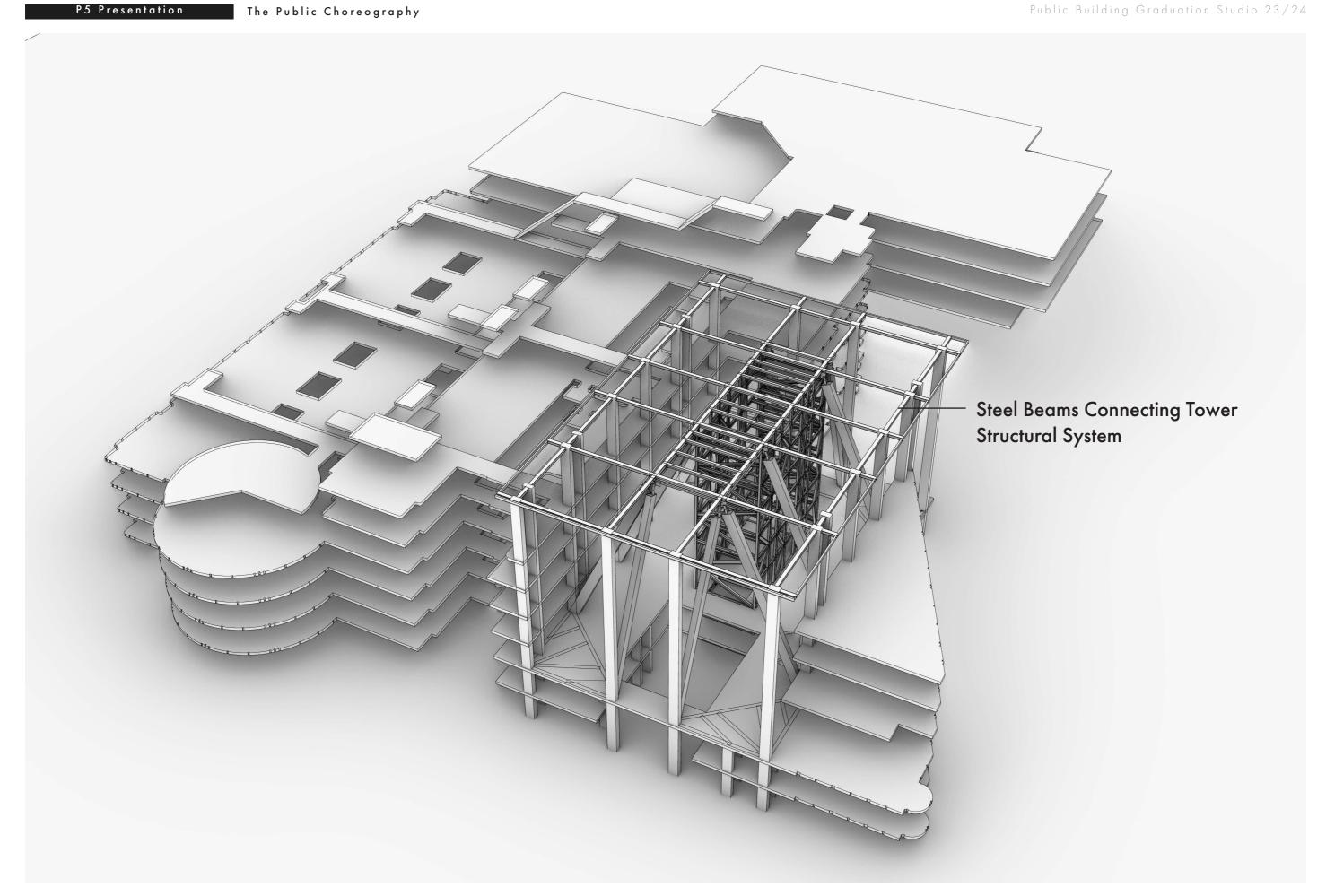






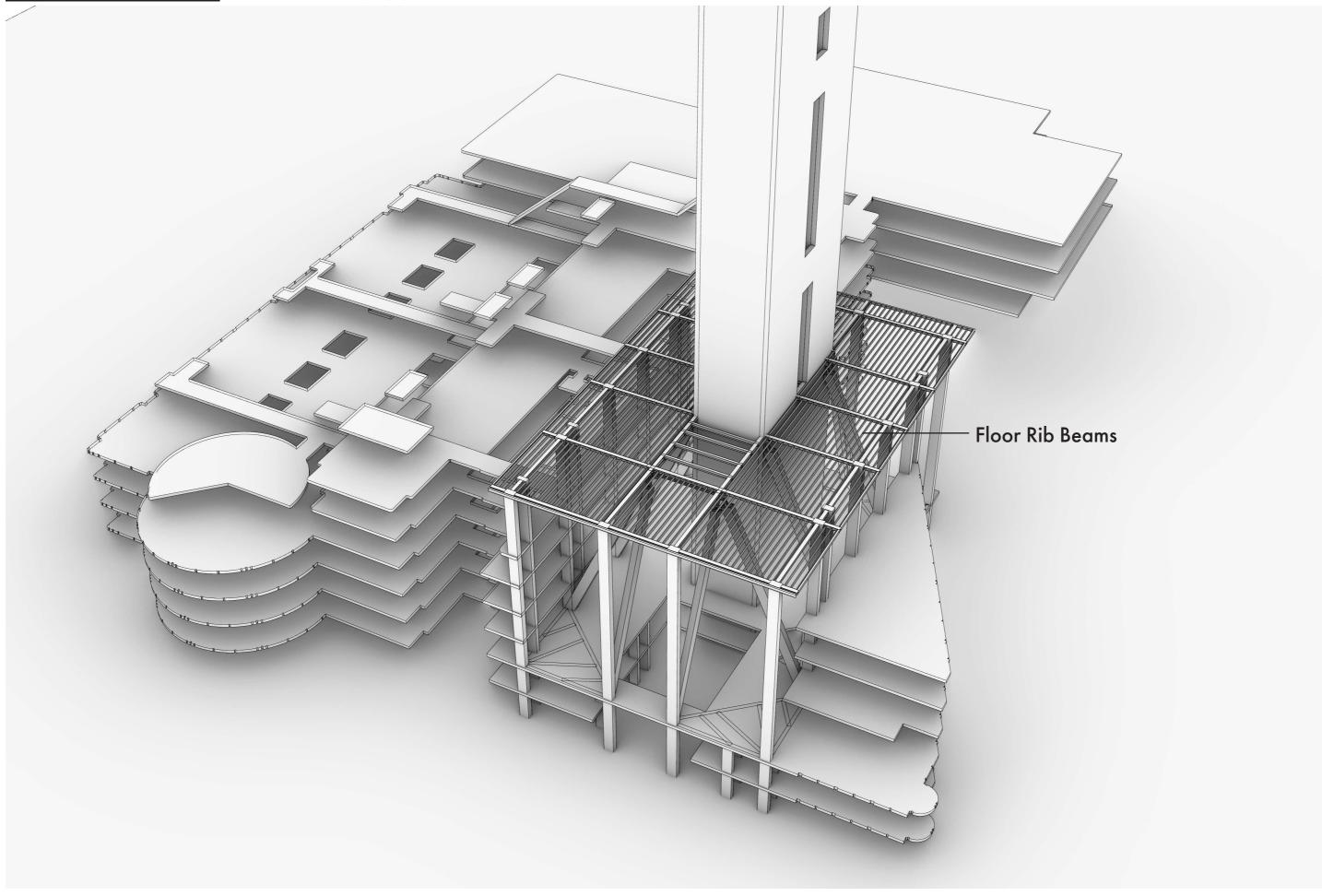


1:5 Part Detail

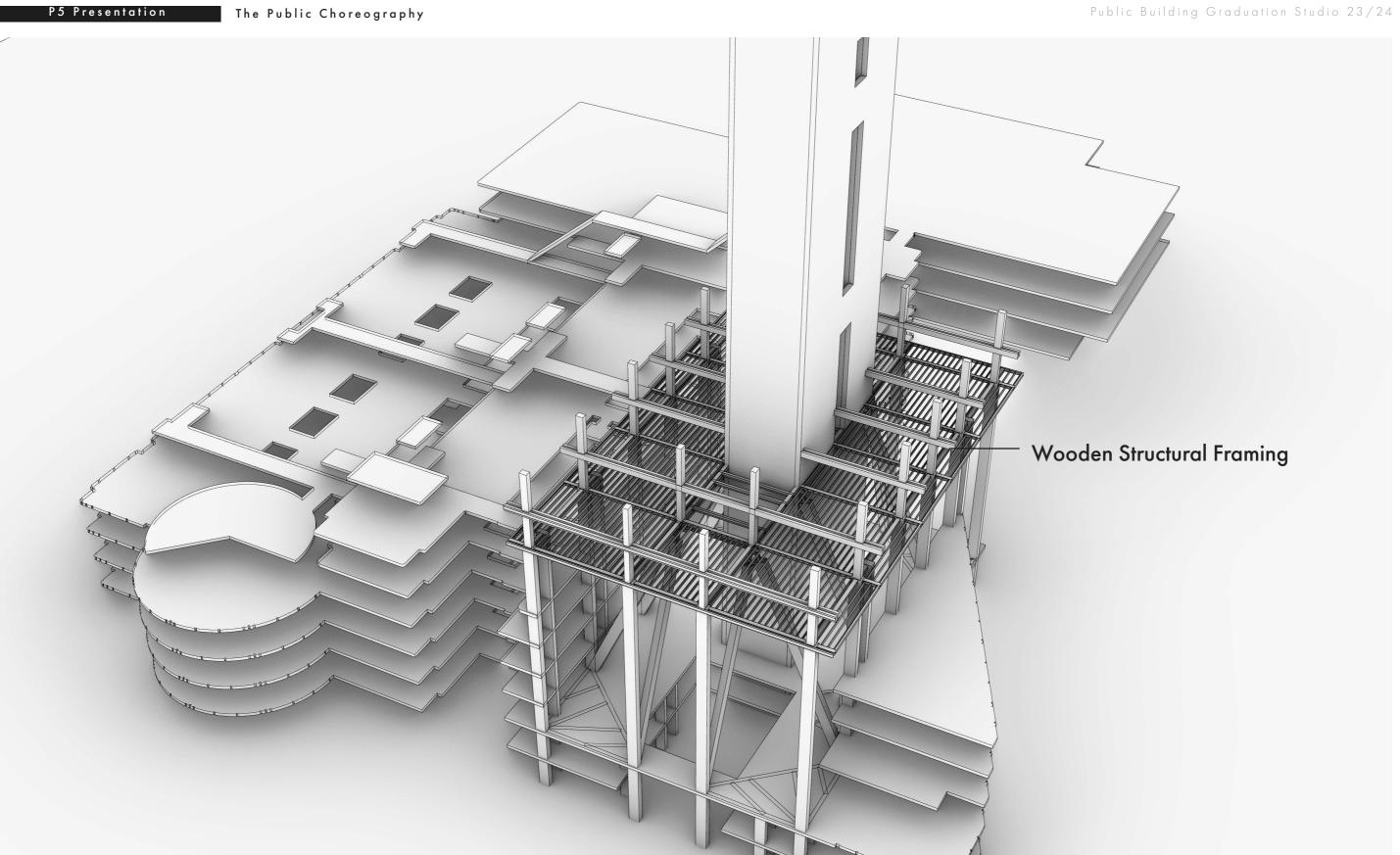




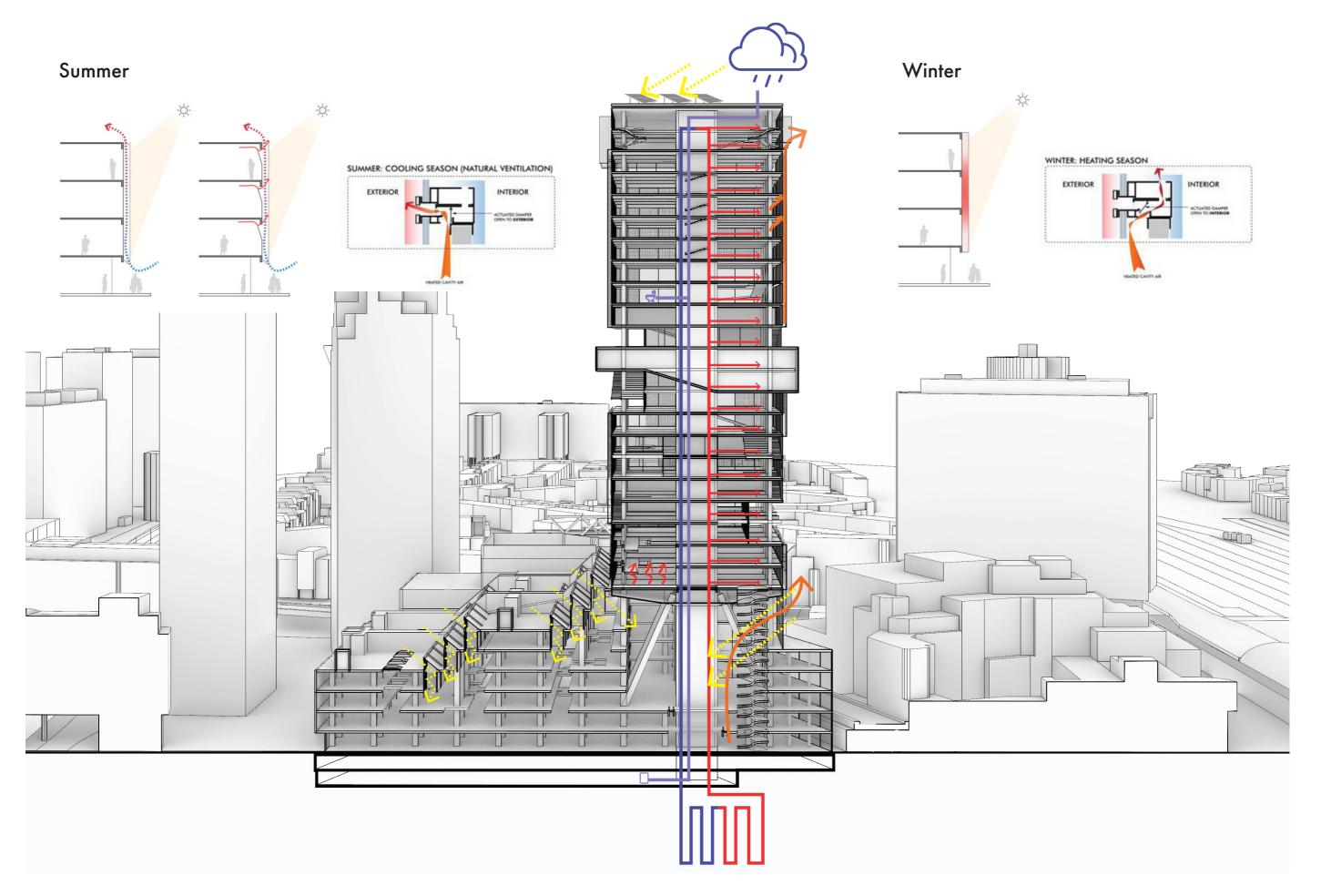
P5 Presentation



Structural Diagram



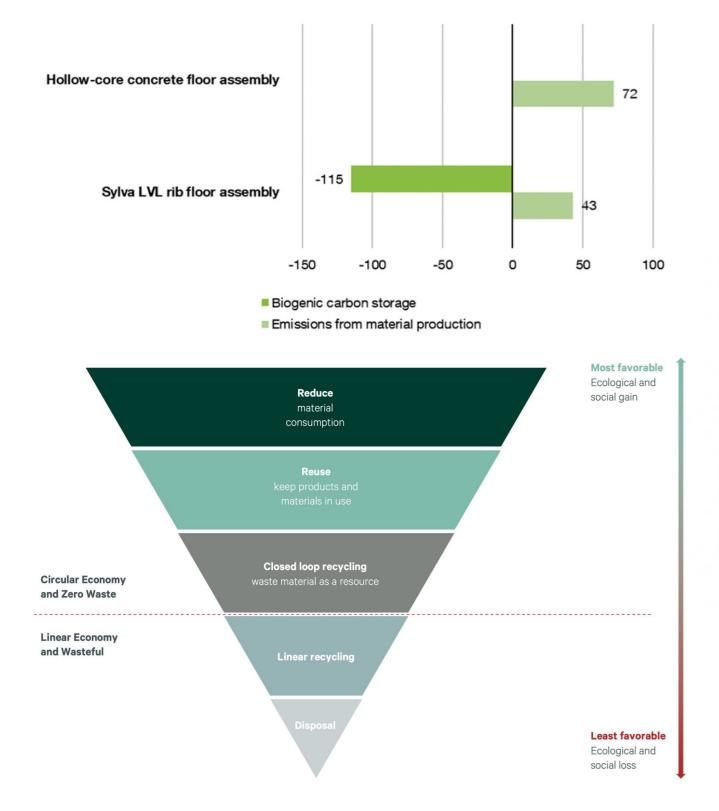
Structural Diagram

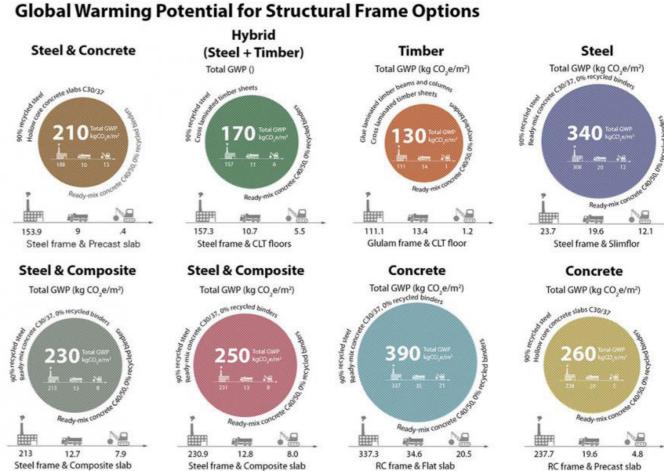


Climate Strategies



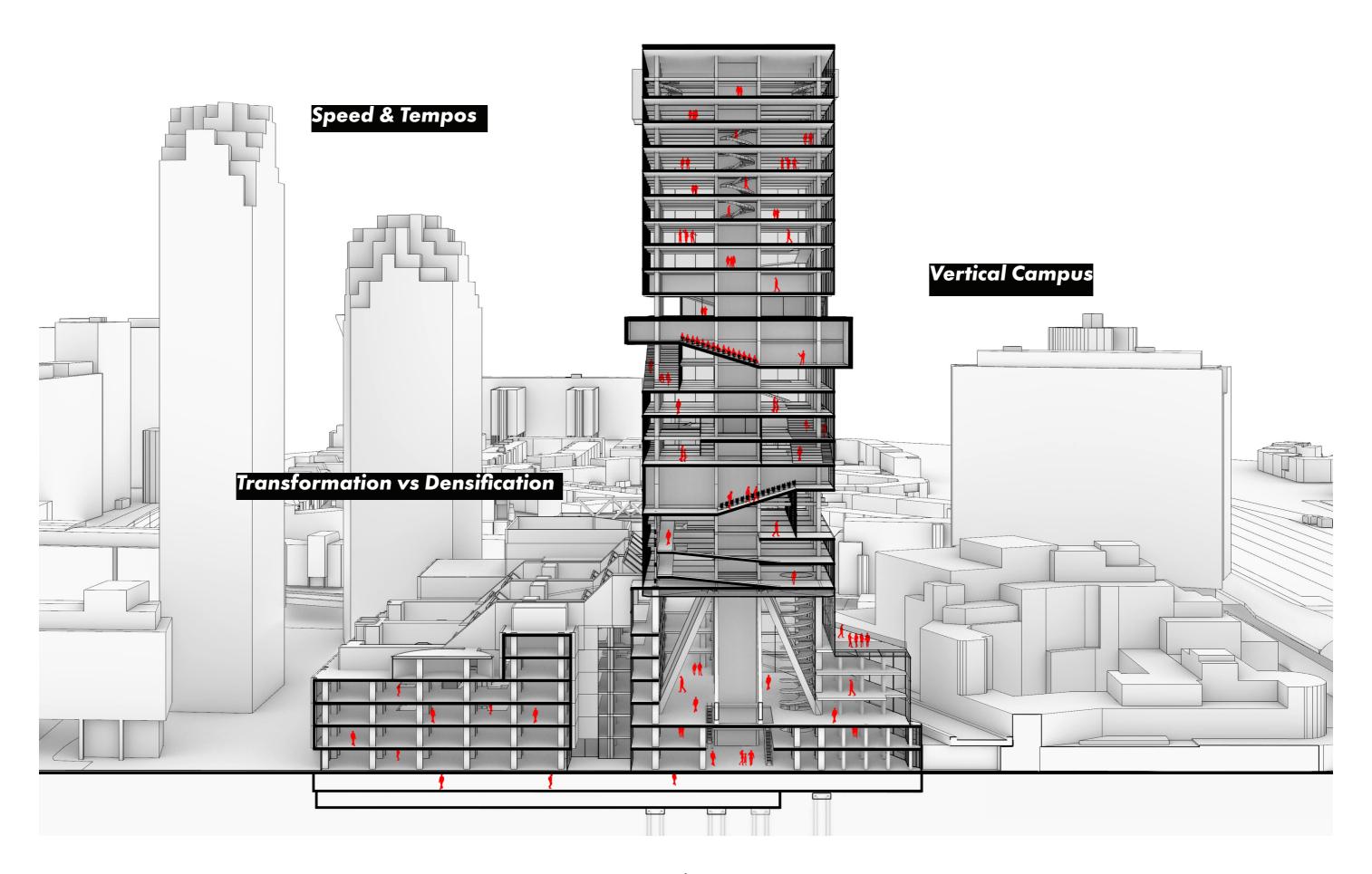
Carbon footprint (modules A1-A3) [kg CO₂-e/m²]





4.5m span

3m span



Thank you!