

ARCHITECTURE STUDENT CONTEST

20th INTERNATIONAL EDITION, NORD ISÈRE 2025

Team Indonesia

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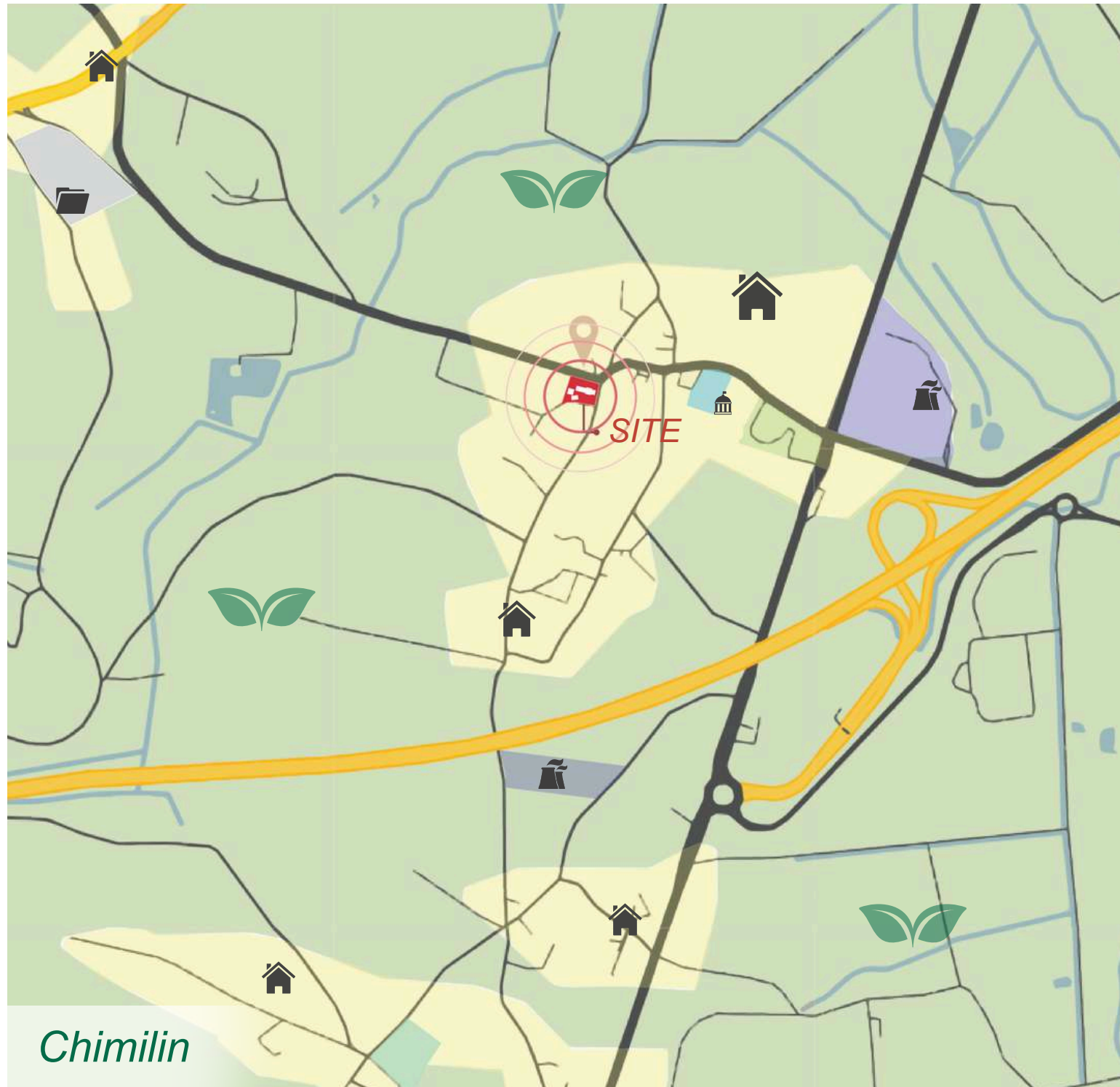


Edmund Serrano Budiarta

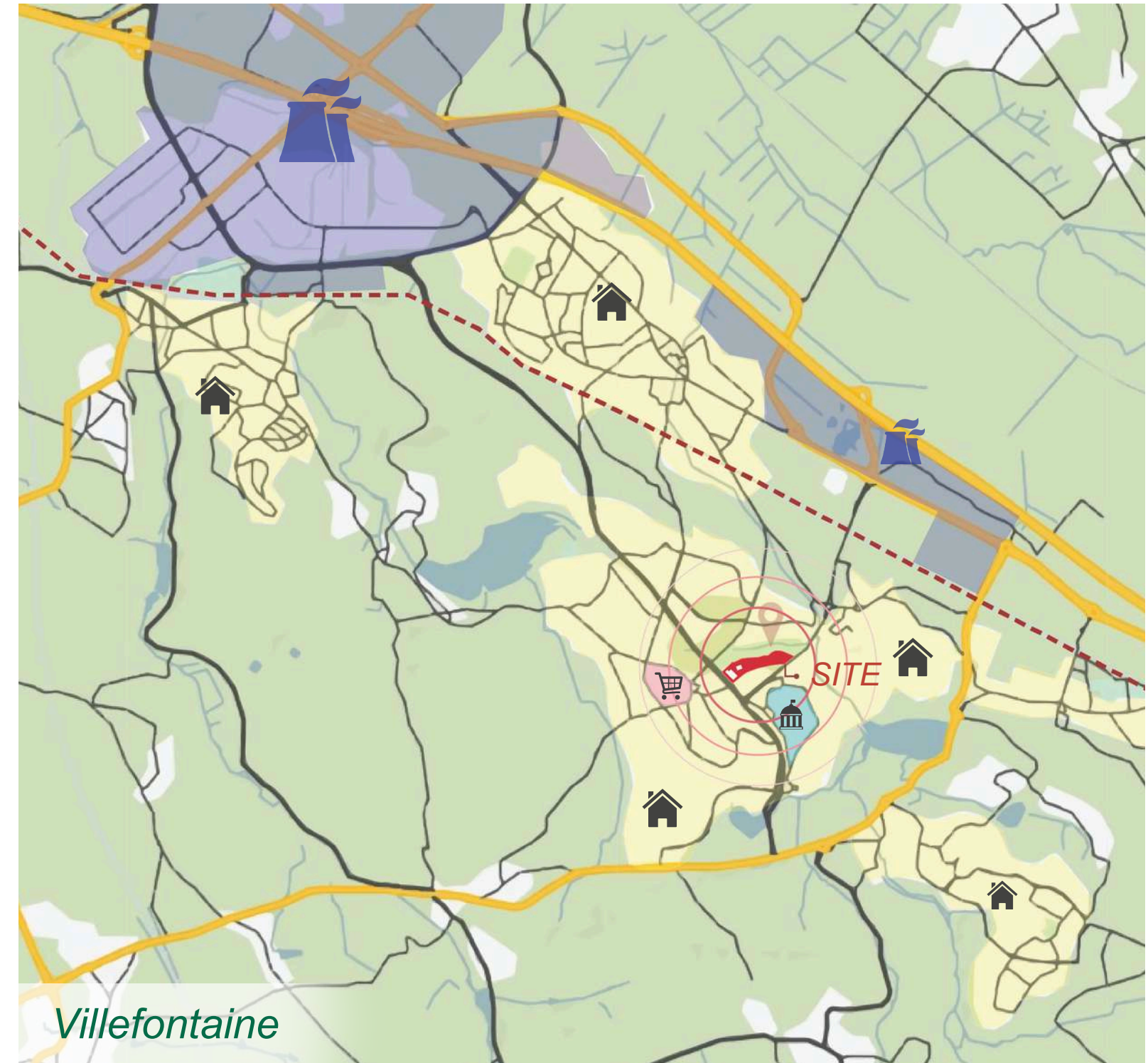


Timeless Interplay: Merging Old and New through Enveloping Spaces

Can architecture stitch urban voids back into the life of the city?



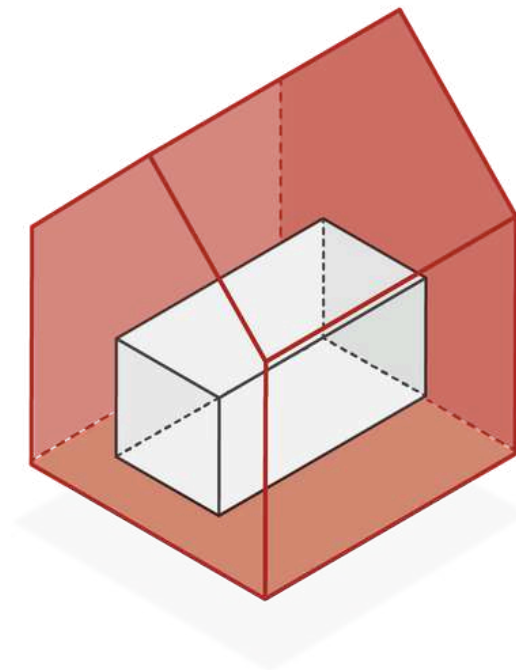
Through a contextual understanding of Chimilin's rural identity and agricultural landscape, architecture can repurpose the existing school structure into a multifunctional community hub



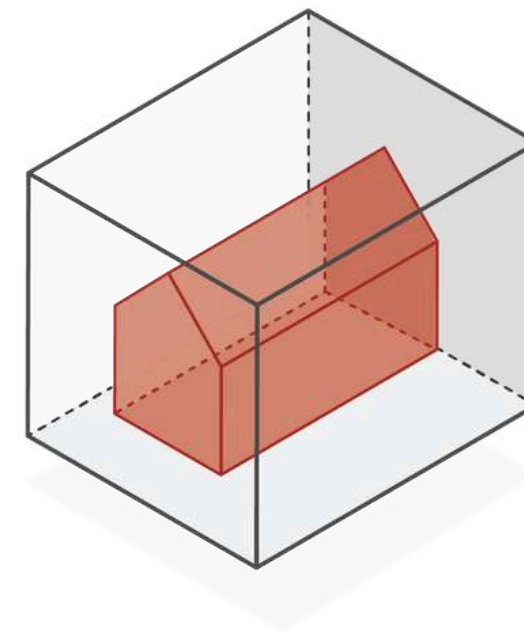
Through the dynamics of Villefontaine's modern industrial fabric, architecture can transform the empty plot into a catalyst for community engagement—supporting the research and creative work of Les Grands Ateliers.

Timeless architecture through enveloping spaces

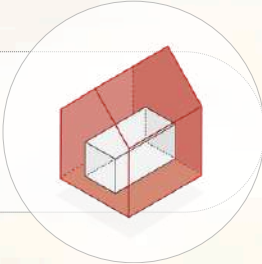
Chimilin



Villefontaine



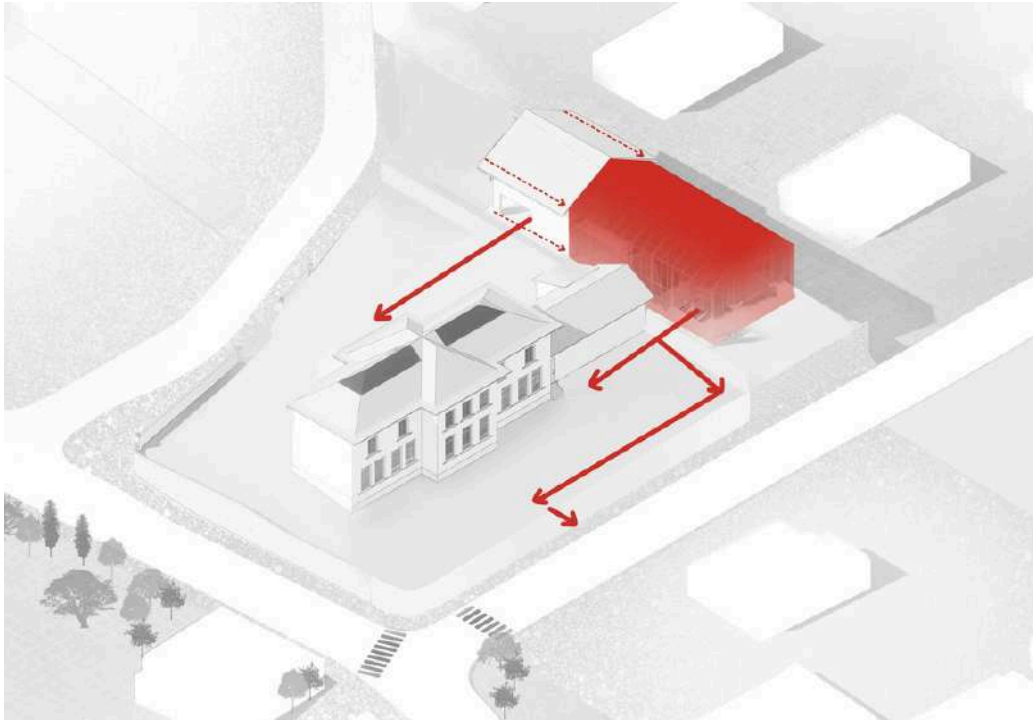
We intend to create a sequence of spaces that blur the boundaries between outdoor, semi-indoor, and indoor, creating a harmonious continuum rather than a collection of isolated rooms. This spatial layering serves as an architectural tool to shape microclimates, modulate light, air, and temperature, and create comfortable, flexible spaces usable year-round.



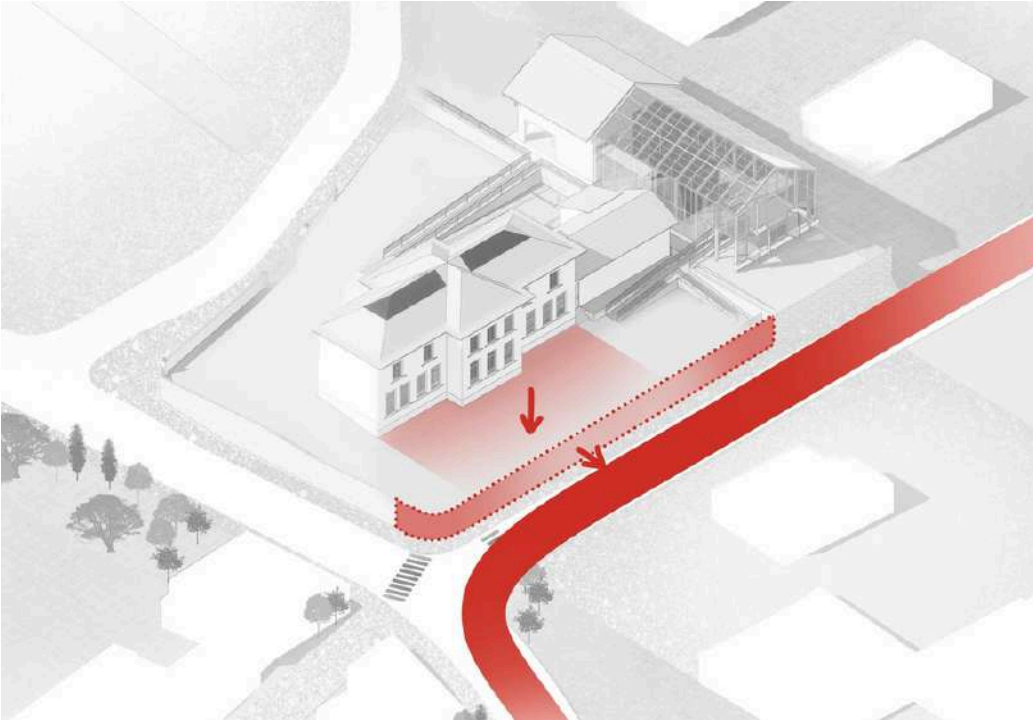
Connecting New Interventions to and Around the Site



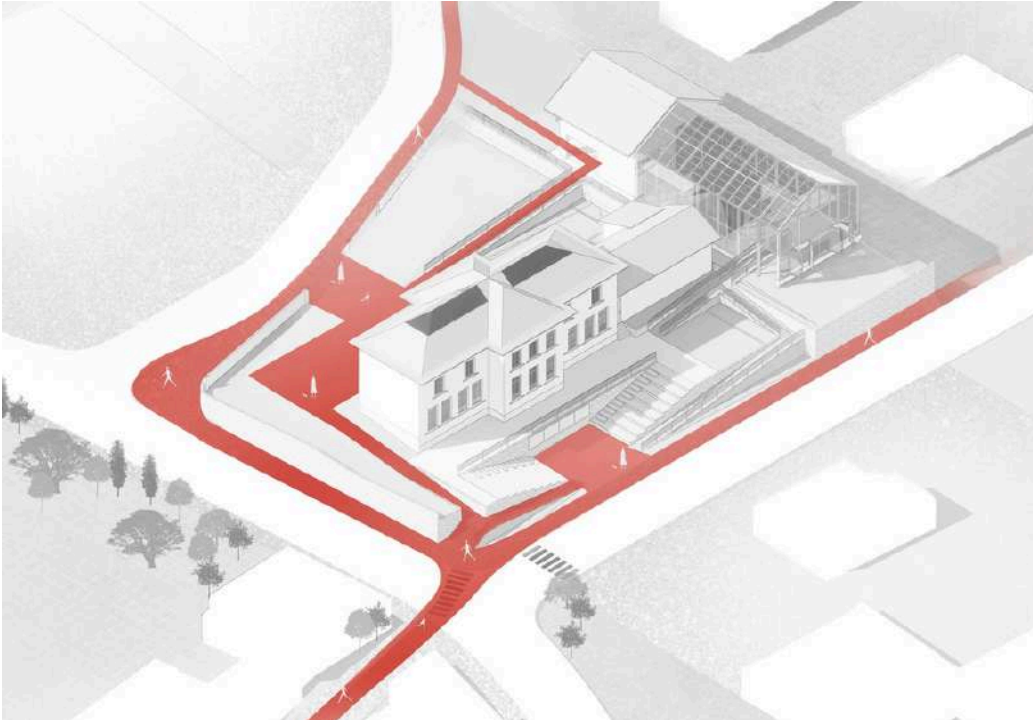
1. Placing new modular square spaces in the old building



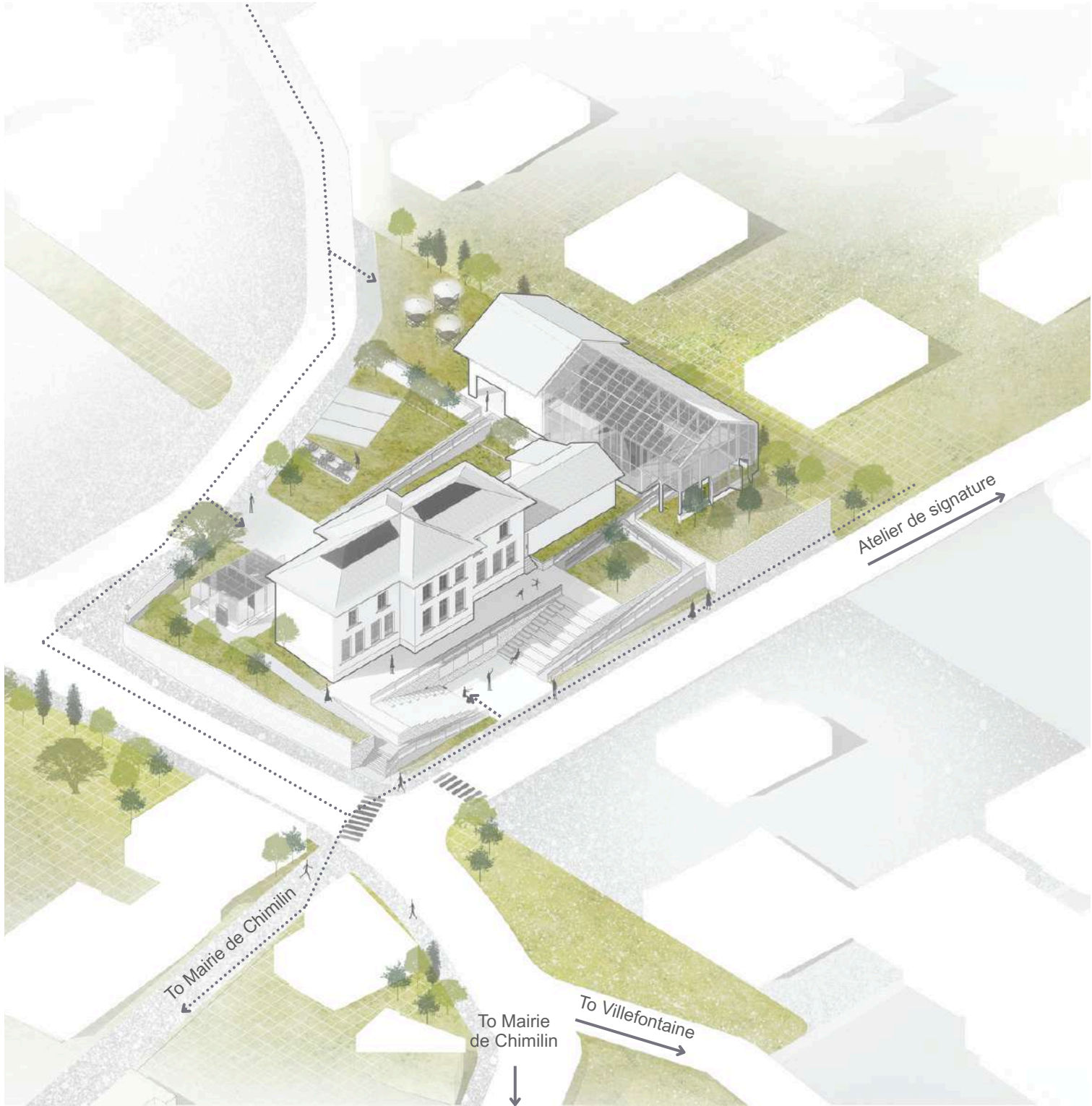
2. Extend old building form with new materials



3. create an amphitheater by pulling the building axis to the main road



4. Connecting the remaining site circulation with pedestrian road



5. Chimilin Building Renovation

Site Plan & Section

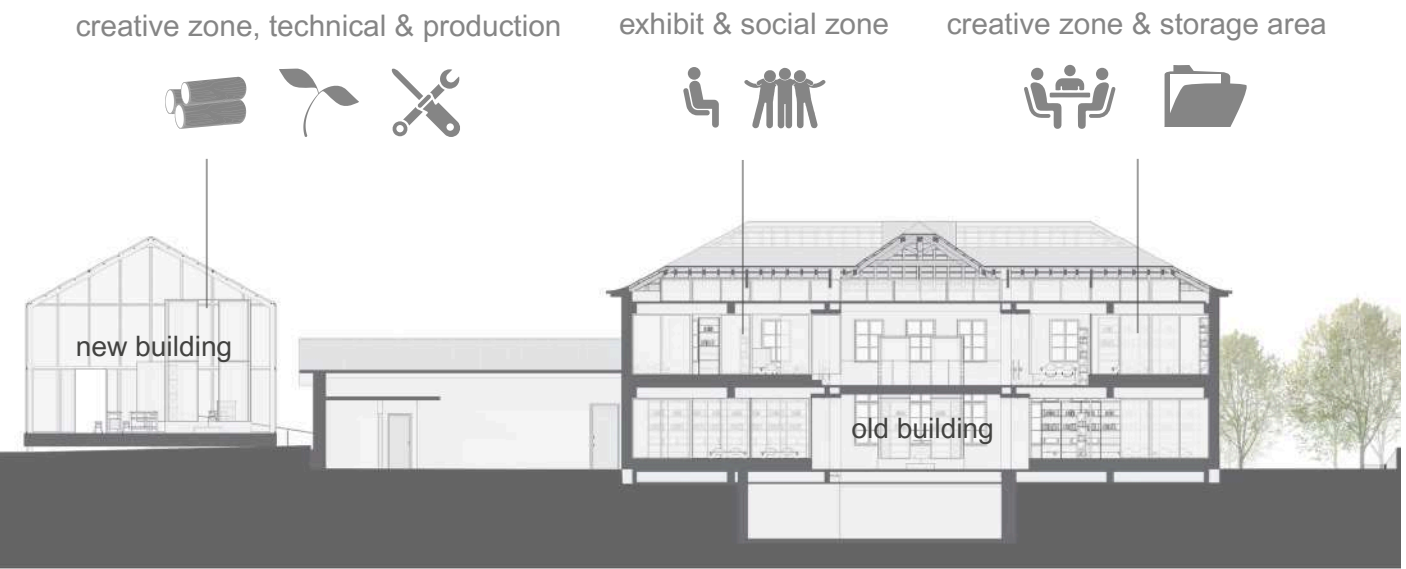


Legend:

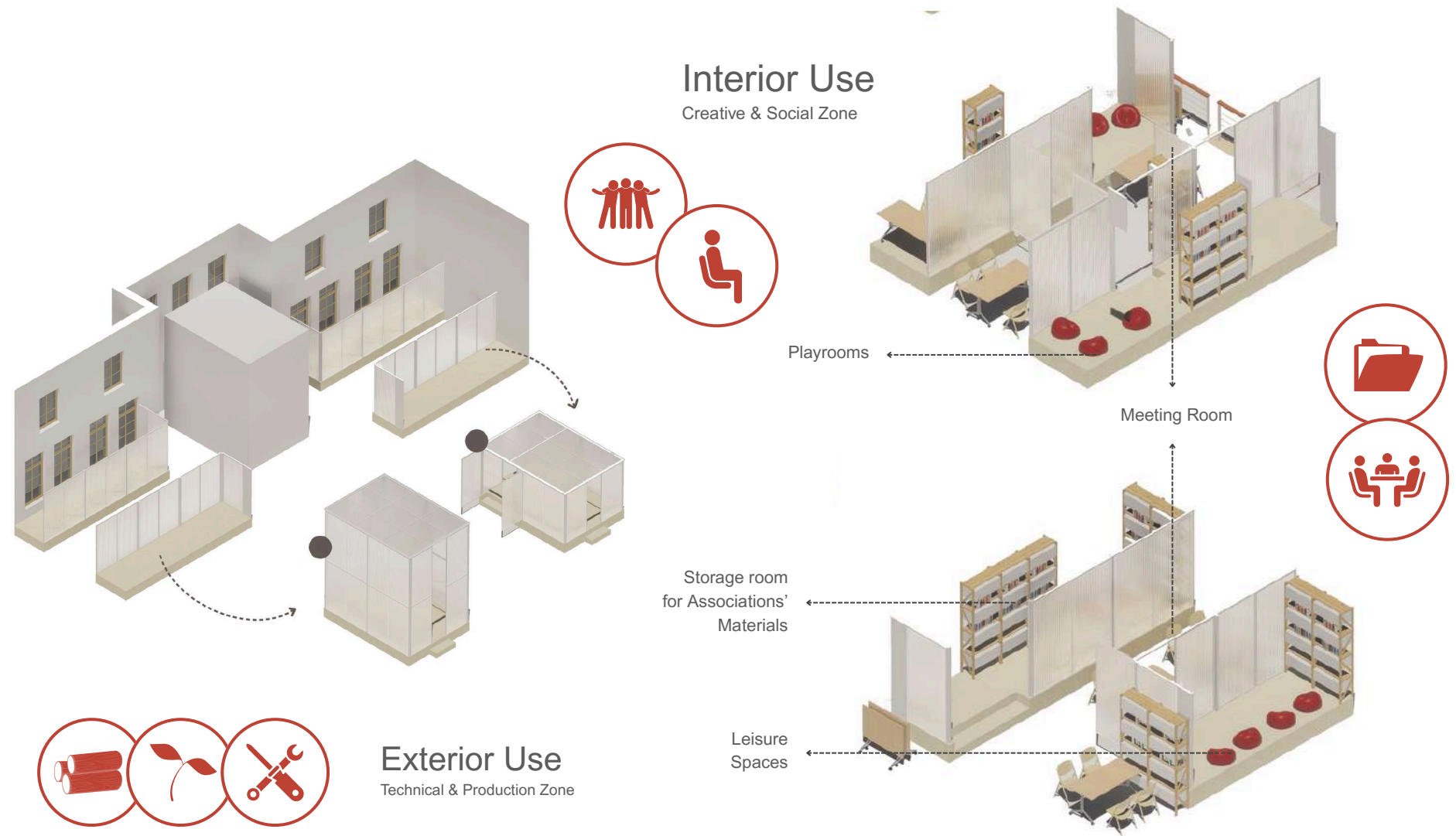
- 1. Flexible modular spaces for 27 associations, meeting, playrooms, storage area
- 2. New extended building for modular spaces
- 3. Cafeteria & F&B zone
- 4. Amphitheater
- 5. Multipurpose Area
- 6. Outdoor sitting
- 7. Pedestrian Pathway
- 8. Mairie de Chimilin
- 9. Église de Chimilin

- Pedestrian access
- Bicycle Parking
- Car Parking

A Placing modular spaces in pedestrian corridors from Mairie de Chimilin to encourage meaningful interactions between local associations and the community, supporting economic growth and social connections while ensuring sustainability through adaptable and eco-friendly design.



Flexible Modular Spaces



Modular structure that redefines the interior, activating the space for community engagement while maintaining the historical integrity of the exterior.



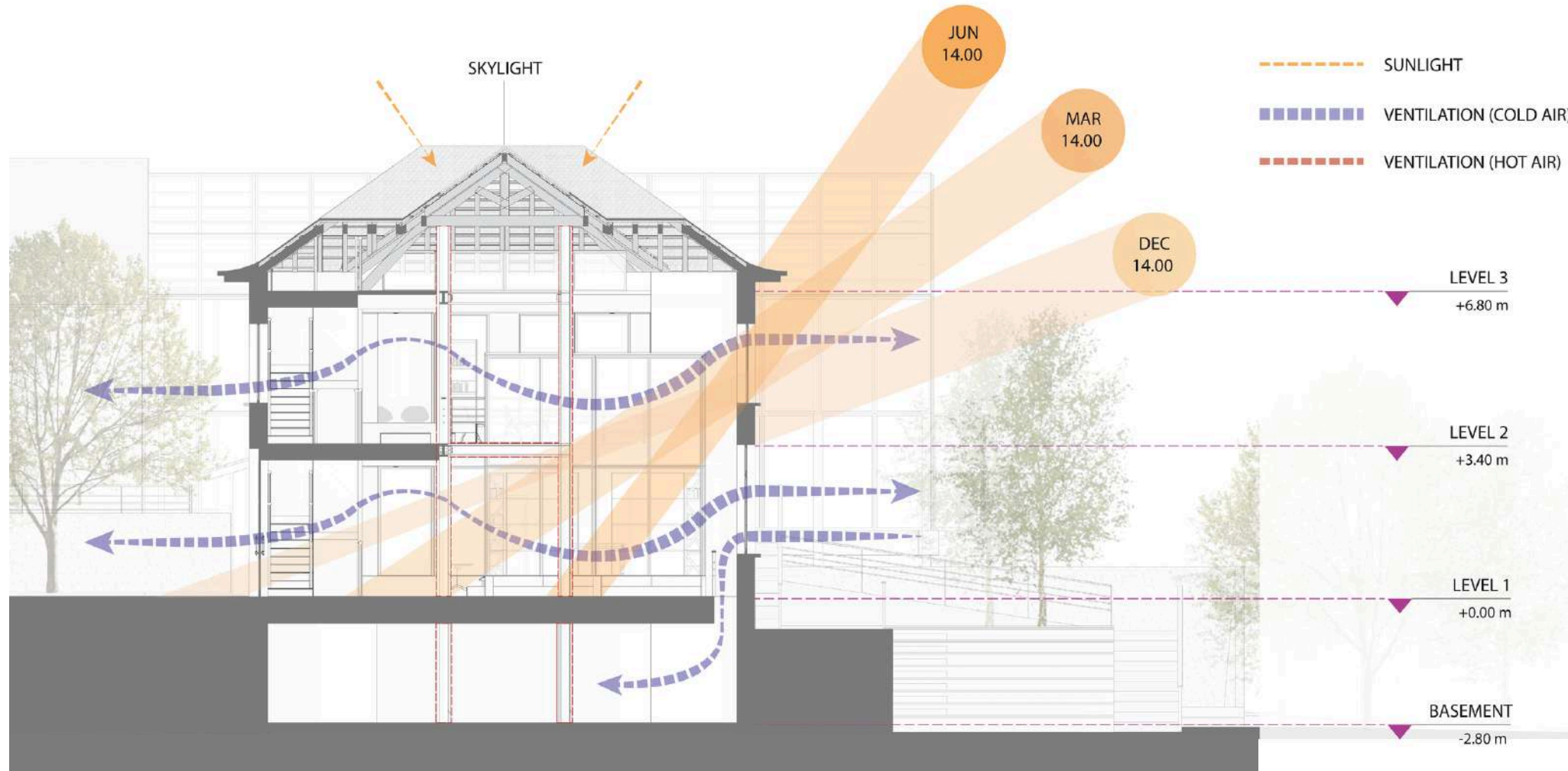


The interplay between the newly inserted volume and the existing building enhances the sequential experience of old and new. The exhibition invites the local community to actively participate in fostering care for their city.

- 1  **glassolutions**
SAINT-GOBAIN
- 2  **isover**
SAINT-GOBAIN
- 3  **pisé rammed earth + isover**
SAINT-GOBAIN
- 4  **ecophon**
SAINT-GOBAIN
- 5  **PRIMA™**
FIBRE CEMENT BUILDING SOLUTIONS
- 6  **weber**
SAINT-GOBAIN

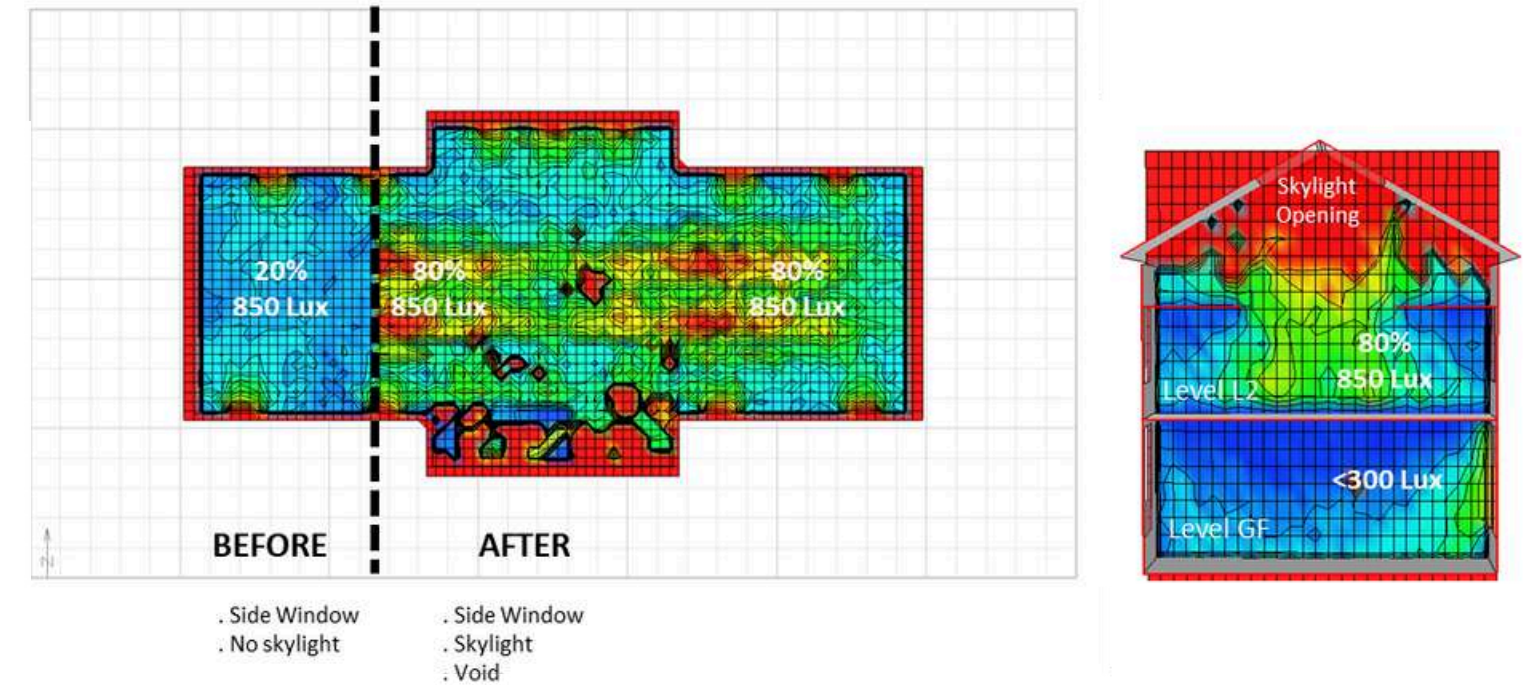
Bioclimatic Design

80% daylight coverage (reach 850 lux) - reducing energy use and enhance comfort.

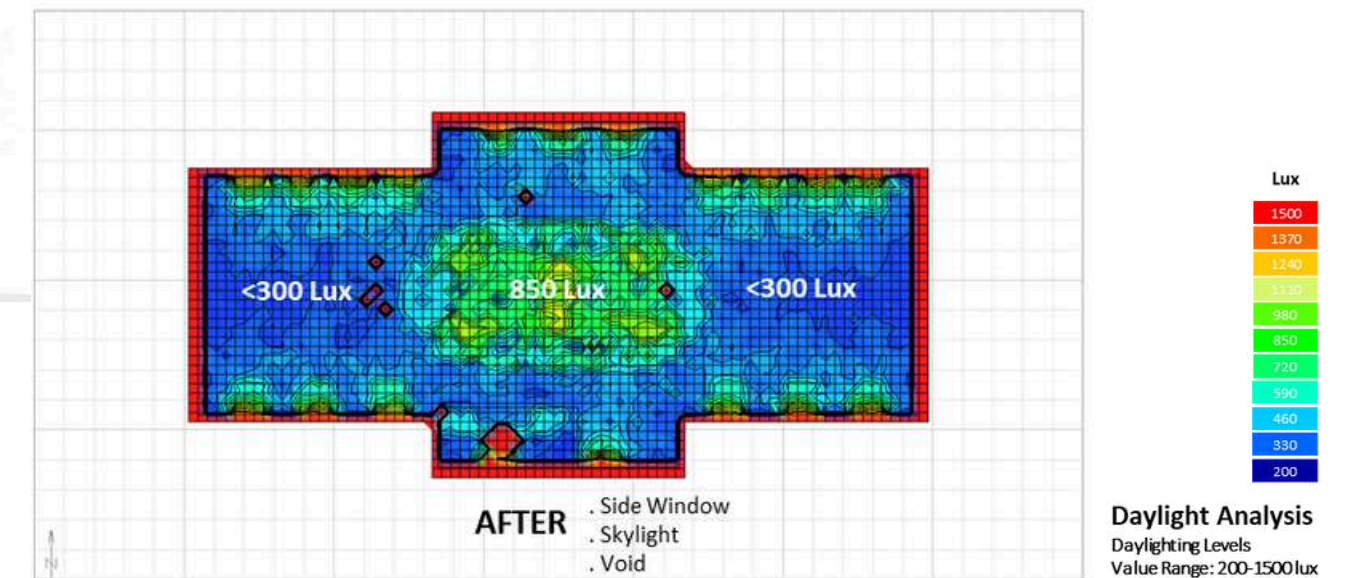


A key challenge in retrofitting older buildings is improving daylight to enhance spatial function and eliminate dark, unused zones. We propose skylights and floor voids to increase natural light, with daylight analysis showing 80% of Level 2 and the ground-floor lobby reaching around 850 lux,

suitable for reading, working, and socializing. Activity zones are placed near windows to maximize light, reducing reliance on artificial lighting. This not only saves energy but also supports occupant well-being by enhancing comfort and circadian rhythm.

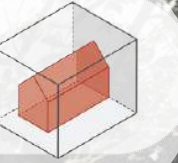


Daylight Analysis Level 1st Floor



Level Ground Floor

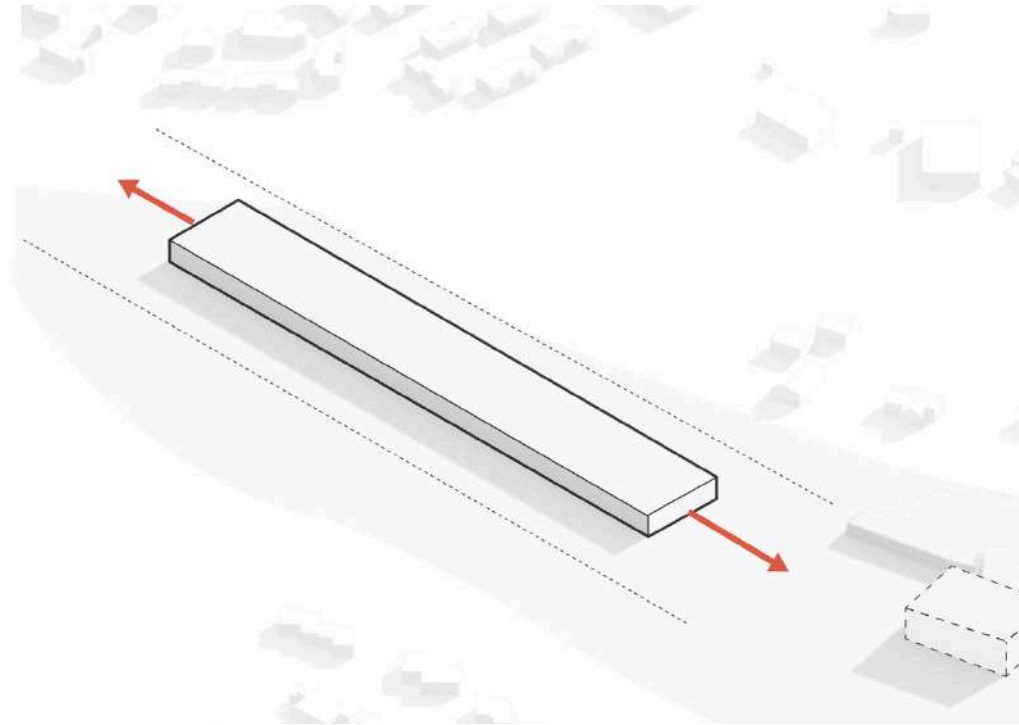
Villefontaine



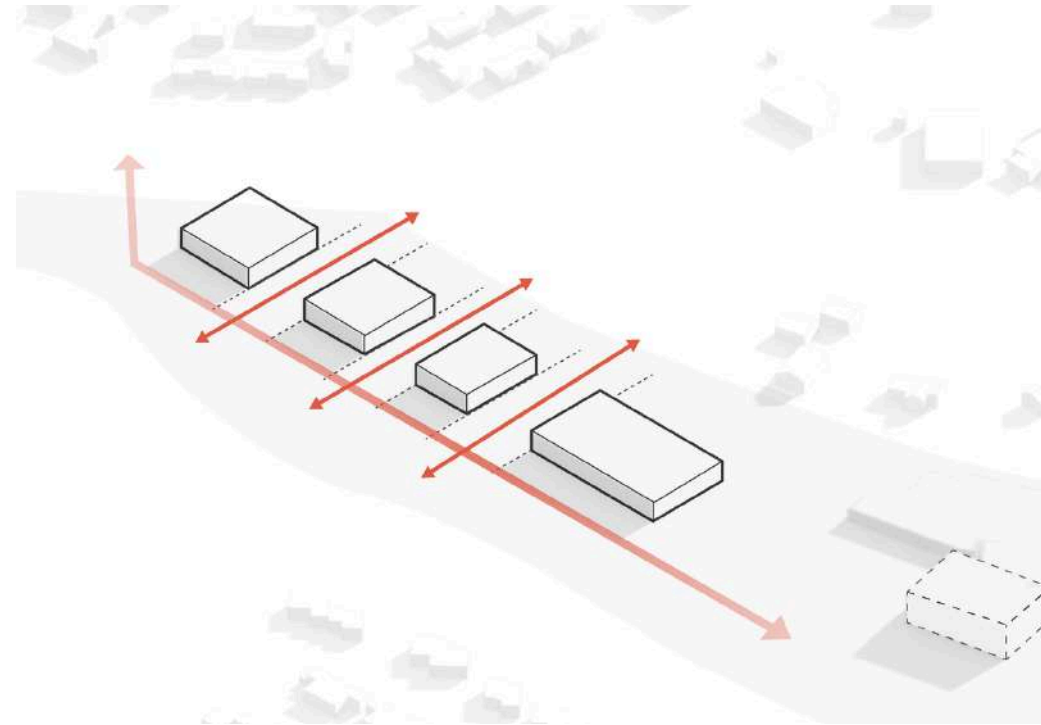
Enveloping spaces that perform like ecosystems - layered, adaptive and independent



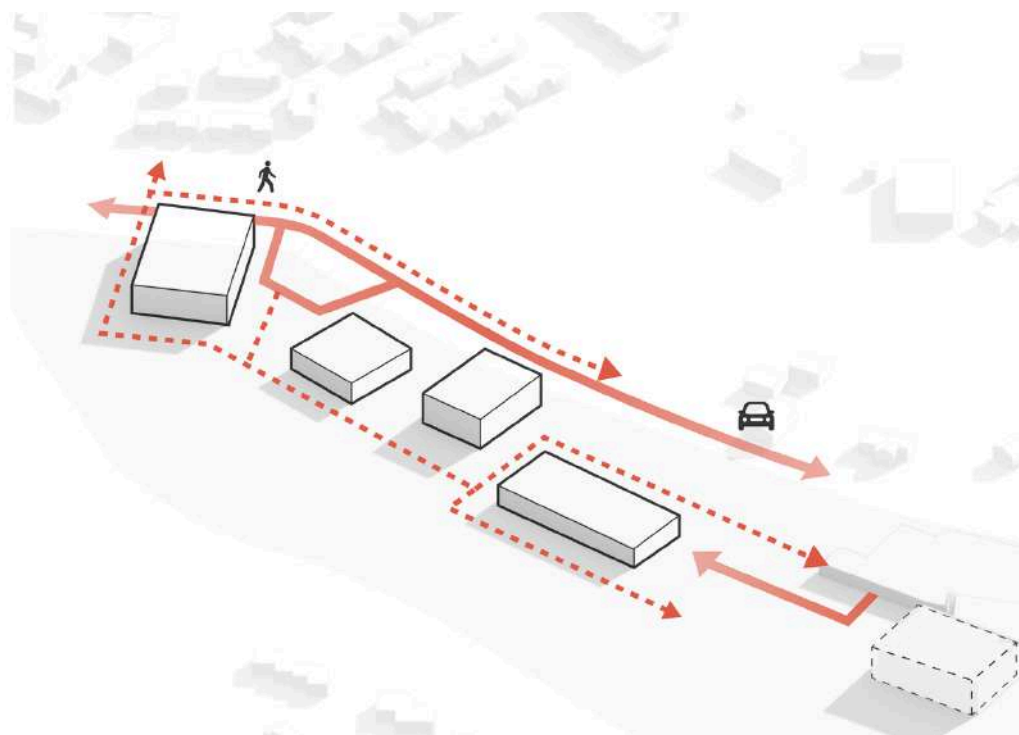
Enhancing Site Connectivity and Environmental Integration



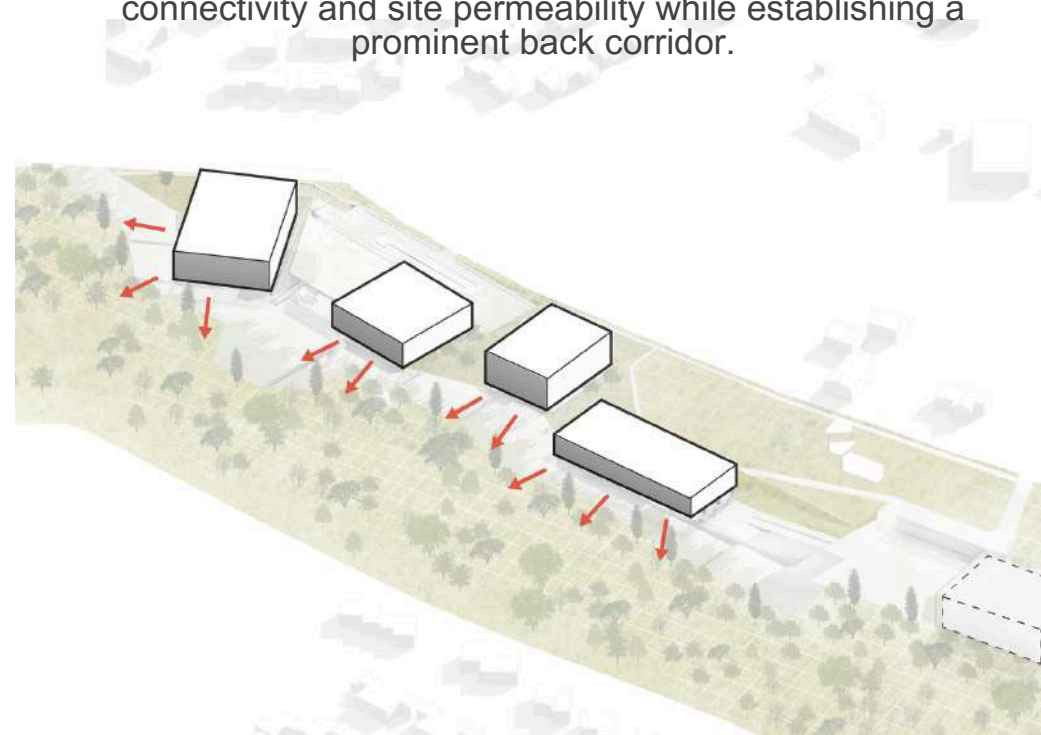
1. Recognizing and emphasizing the site's prominent linear axis.



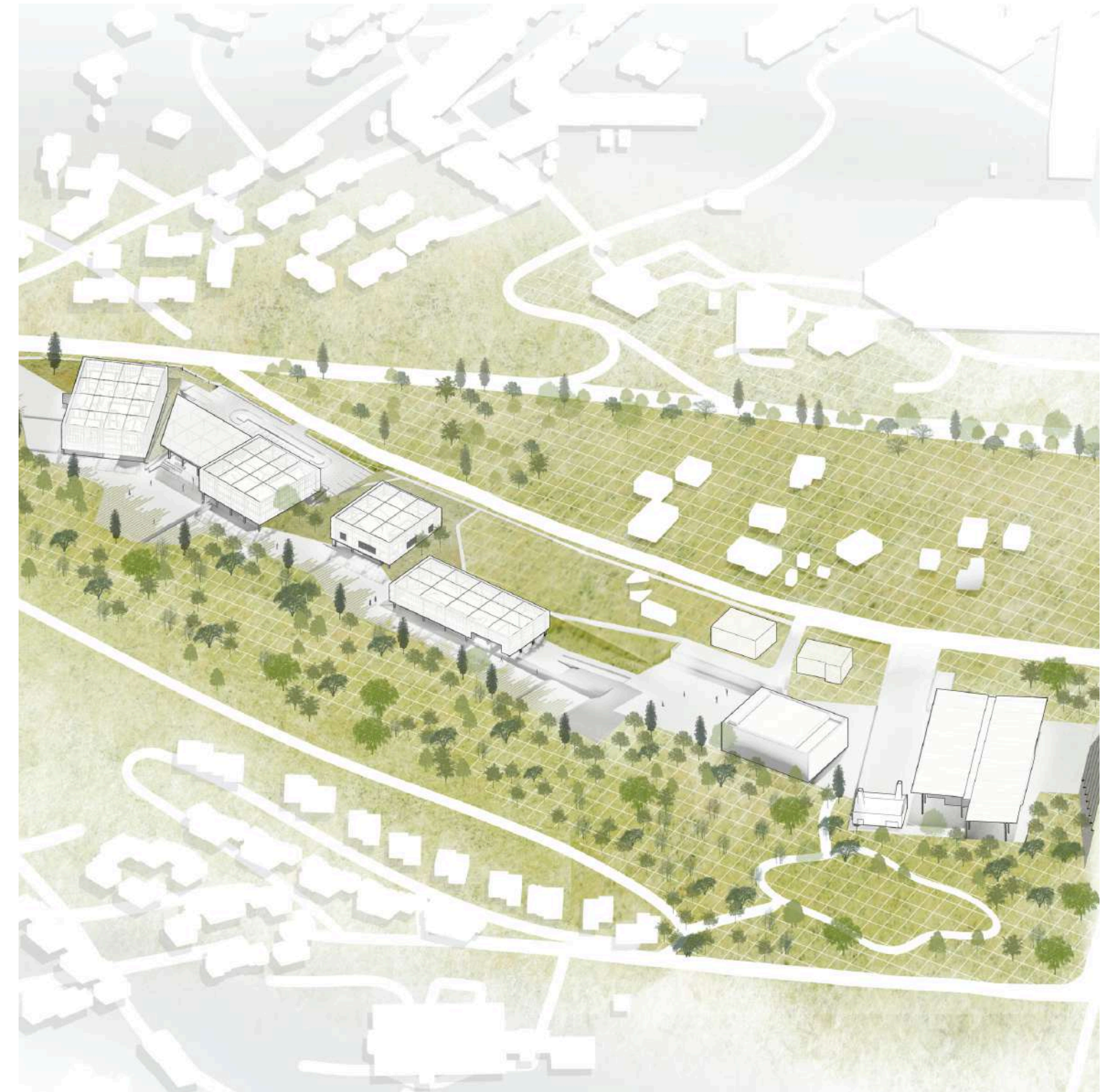
2. Dividing into four distinct masses to enhance connectivity and site permeability while establishing a prominent back corridor.



3. Integrating existing pedestrian and vehicular access points while introducing new connections to strengthen ties with the surrounding community.



4. Incorporating a green corridor at the rear to enhance views of the existing forest and improve environmental integration.







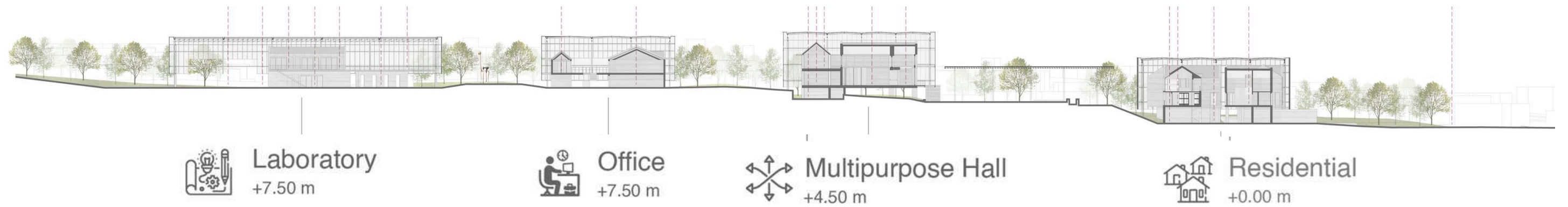
5. New Construction Renovation



Legend

- 1. Drop off
- 2. Lobby
- 3. Residential
- 4. Main Corridor/
Prototype Village
- 5. Multi Purpose Hall
- 6. Office
- 7. Laboratory
- 8. Clinic
- 9. Minimarket
- 10. Astus
- 11. Boiler Room
- 12. Camping
- 13. Les Grands Ateliers
- 14. Dog Park
- 15. La Maison Des Copagnons
- 16. Loading Dock

-  Pedestrian access
-  Bicycle Parking
-  Artwork
-  Car Access





Enveloping spaces that perform like ecosystems - layered, adaptive and independent

Building A - Residential



Ground Floor Plan

Legend

- 1. Reception
- 2. Co-working
- 3. Common Living Room
- 4. Laundry
- 5. Kitchen and Dining
- 6. Garden
- 7. Bike Storage





Building A - Residential



Ground Floor Plan

Legend

- 1. Reception
- 2. Co-working
- 3. Common Living Room
- 4. Laundry
- 5. Kitchen and Dining
- 6. Garden
- 7. Bike Storage





Building A - Residential

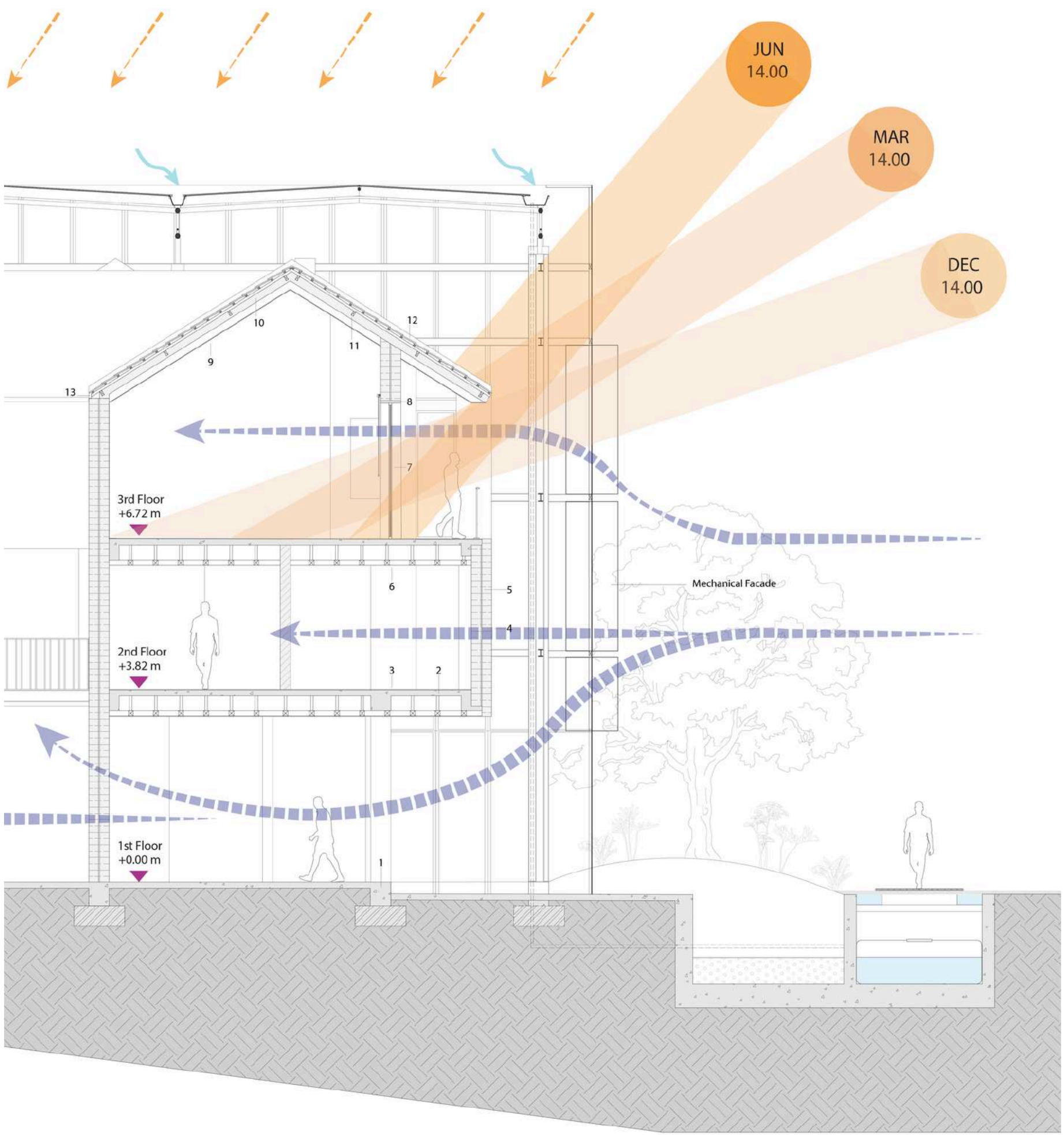


Ground Floor Plan

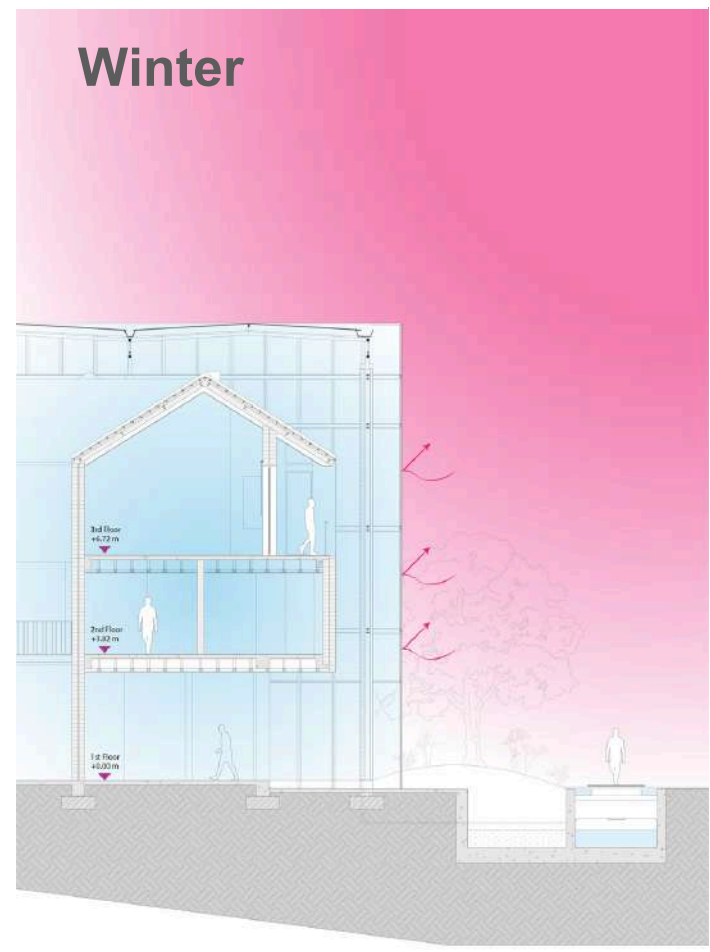
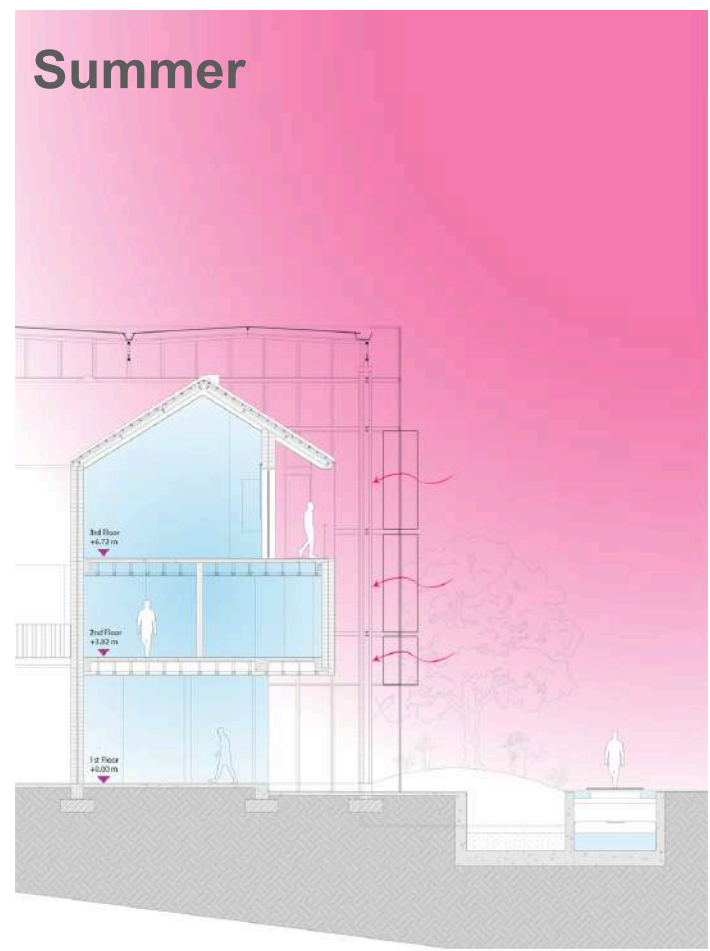
Legend

- 1. Reception
- 2. Co-working
- 3. Common Living Room
- 4. Laundry
- 5. Kitchen and Dining
- 6. Garden
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Timeless Interplay



Microclimate

By enveloping spaces we try to generate localized microclimates that respond to diurnal and seasonal shifts, enabling year-round comfort and spatial adaptability. The open and close facade systems act as an environmental interface—modulating light, airflow, and temperature rather than fixed enclosures.

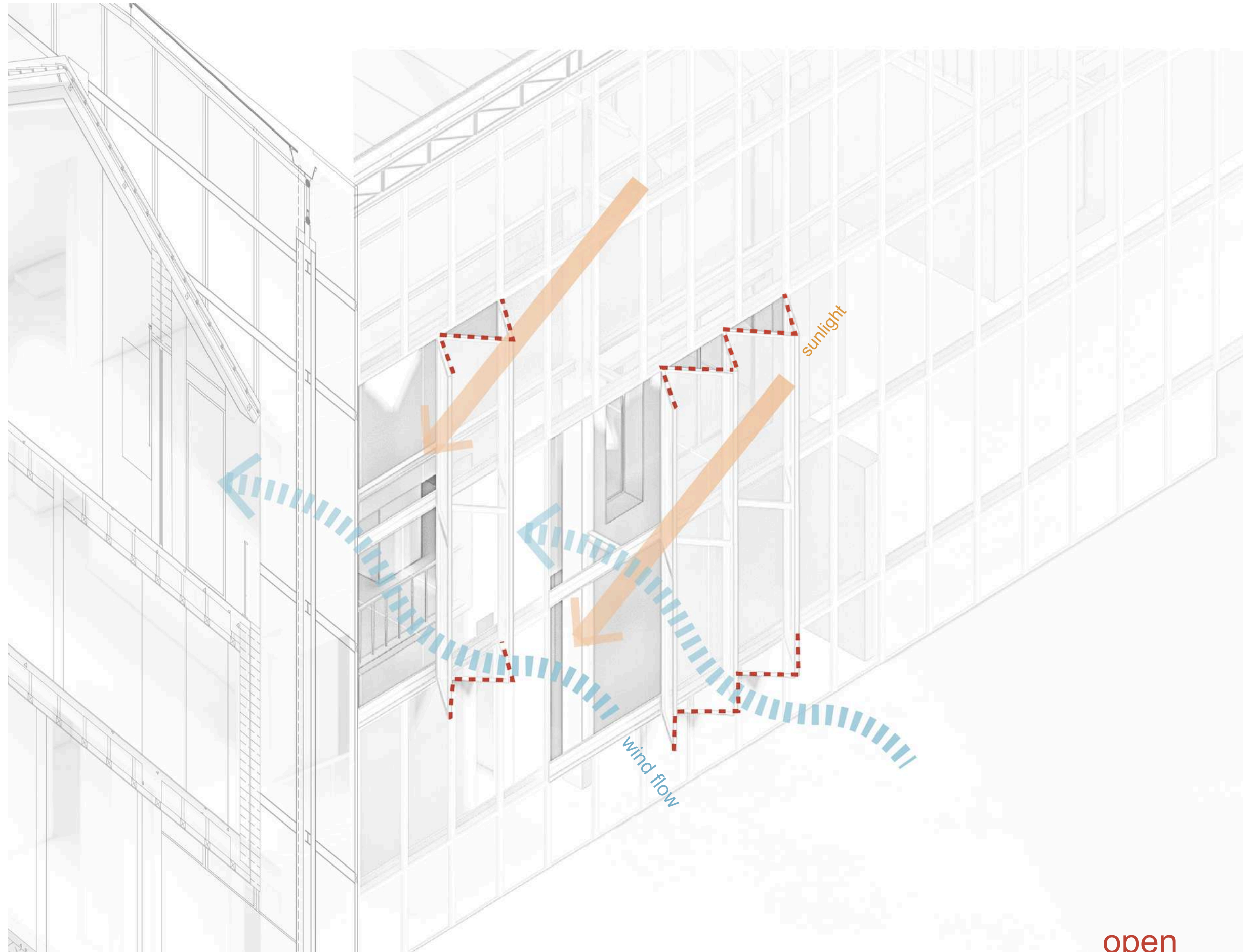


Winter Activity
Urban Farming



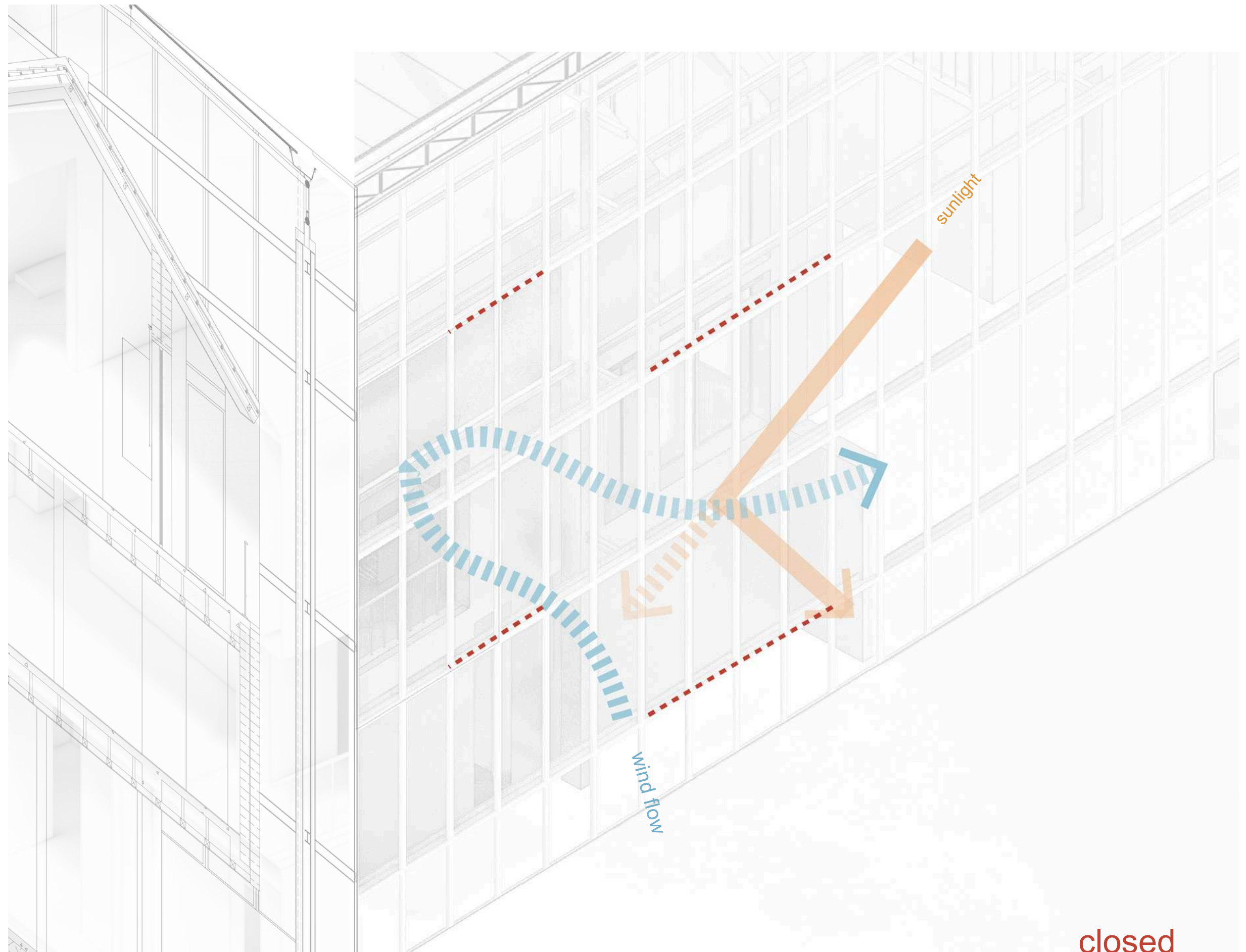
Summer Activity
Gathering towards sun and wind breeze

Facade

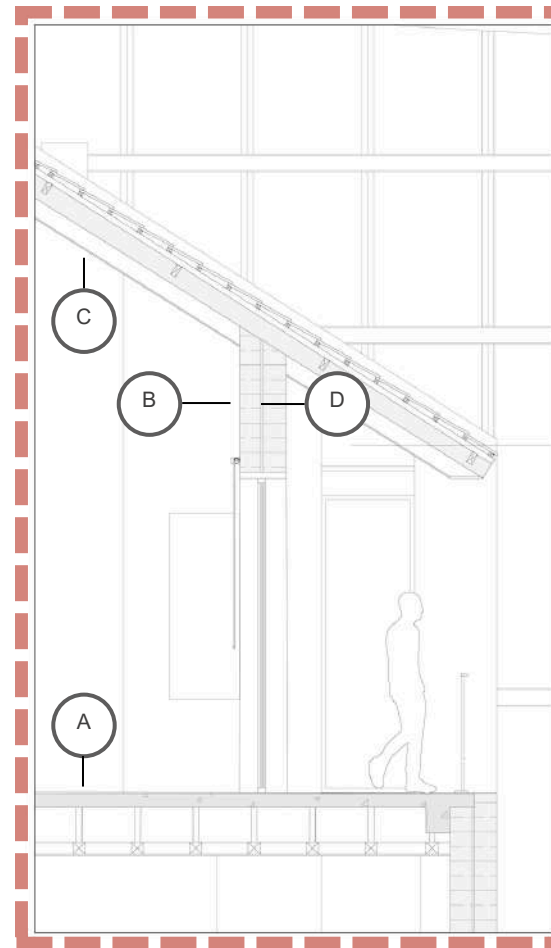
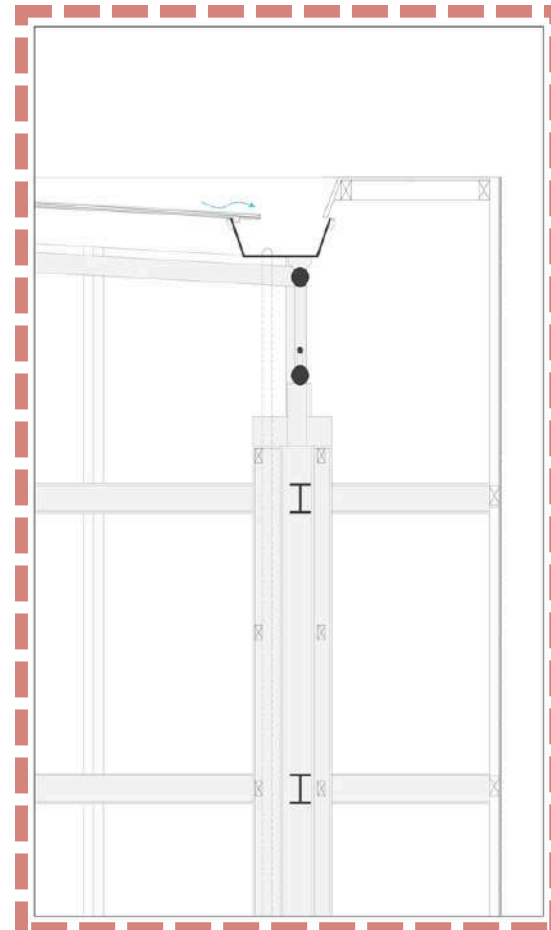
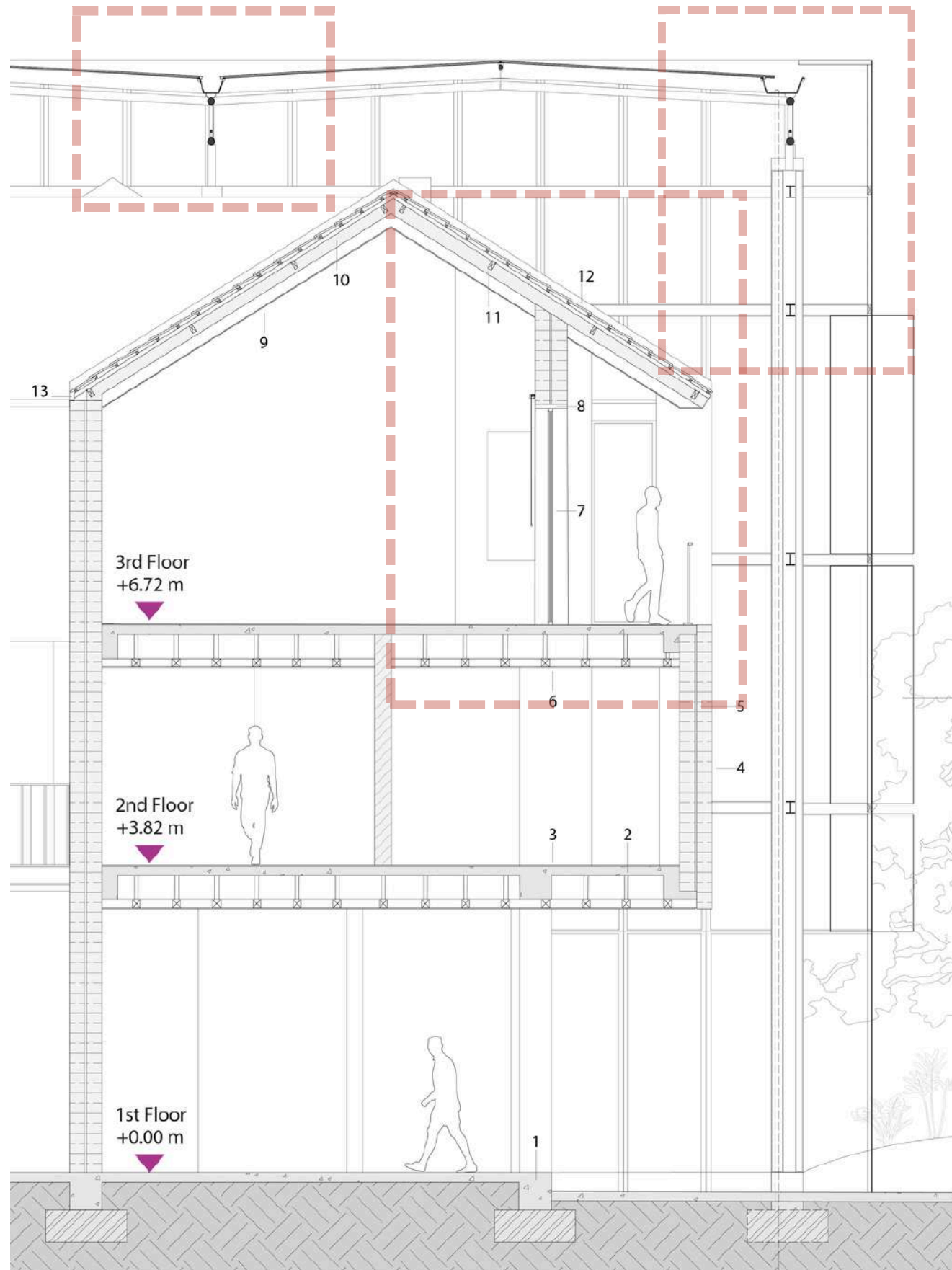


open

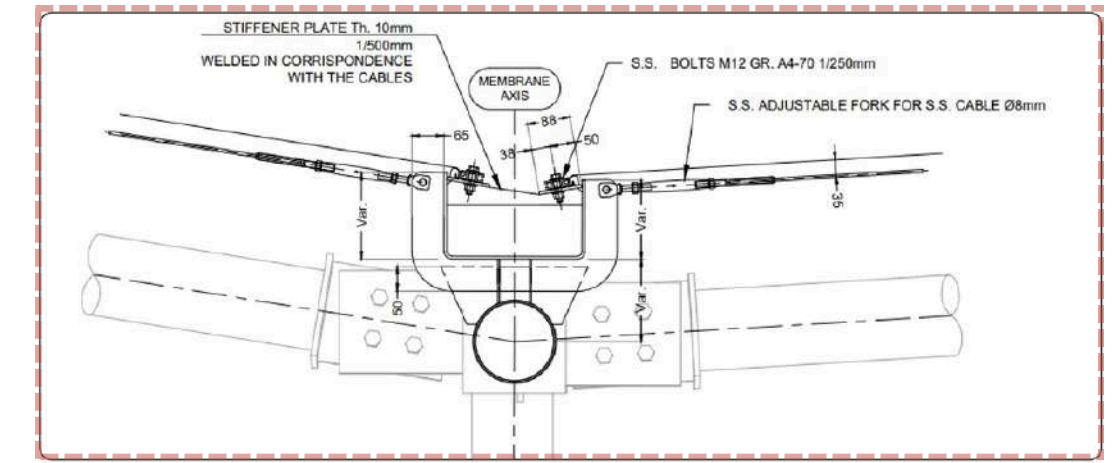
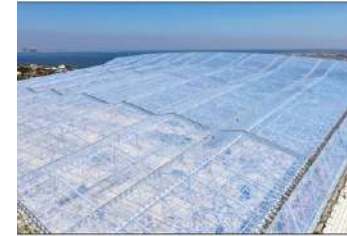
Facade



Building with St.Gobain Materials



ETFE with photovoltaic panels



ETFE Construction System

1. Concrete Floor
2. Floor Slab Concrete 120 mm
3. Floor Tiles 60x60 cm
4. Rammed Earth Thickness 400 mm
5. Insulation Layer
6. Acoustic Ceiling
7. Window Double Glass 36 mm
8. Lintel Concrete
9. Acoustic Panel Saint Gobain
10. Roof Construction Steel IWT 15x15 cm
11. Steel Purlin C Profile
12. Slate Roof
13. Metal Flashing

- (A)  **weber** Weberset Floor
SAINT-GOBAIN
- (B)  **gyproc** Sound Block
SAINT-GOBAIN
- (C)  **gyproc** Gyseismic Top
SAINT-GOBAIN
- (D)  **isover** Thermal Insulation Glass Wool Roll
SAINT-GOBAIN
- (E)  **glassolutions** COOL-LITE® SKN 144 II
SAINT-GOBAIN

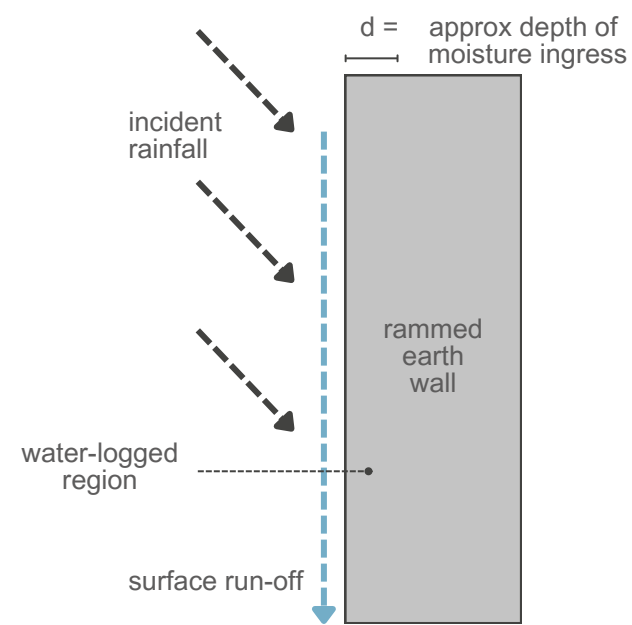
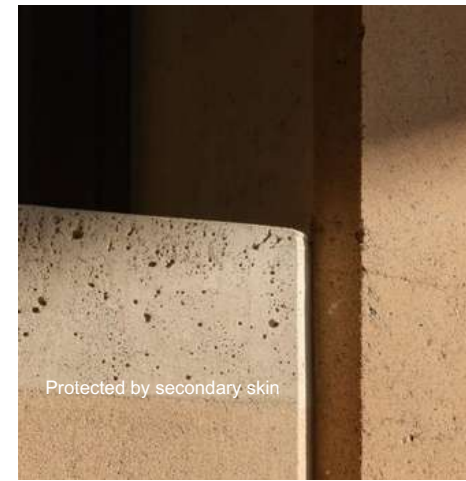
Pise and Secondary Skin

Traditional Technique

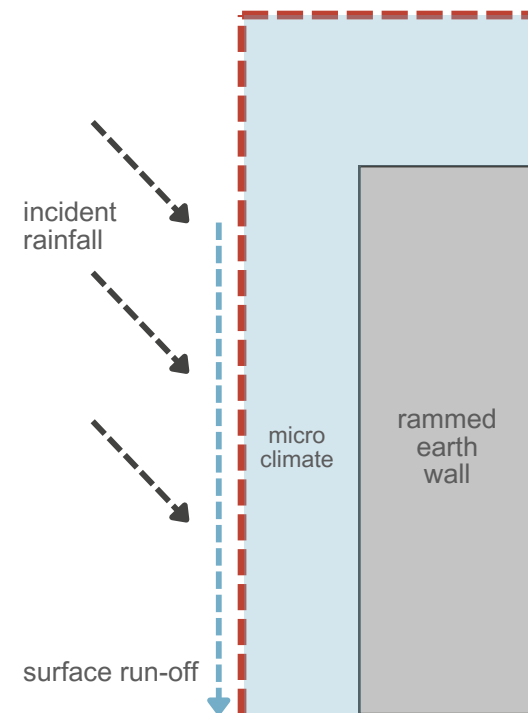


VS

New Contemporary Technique

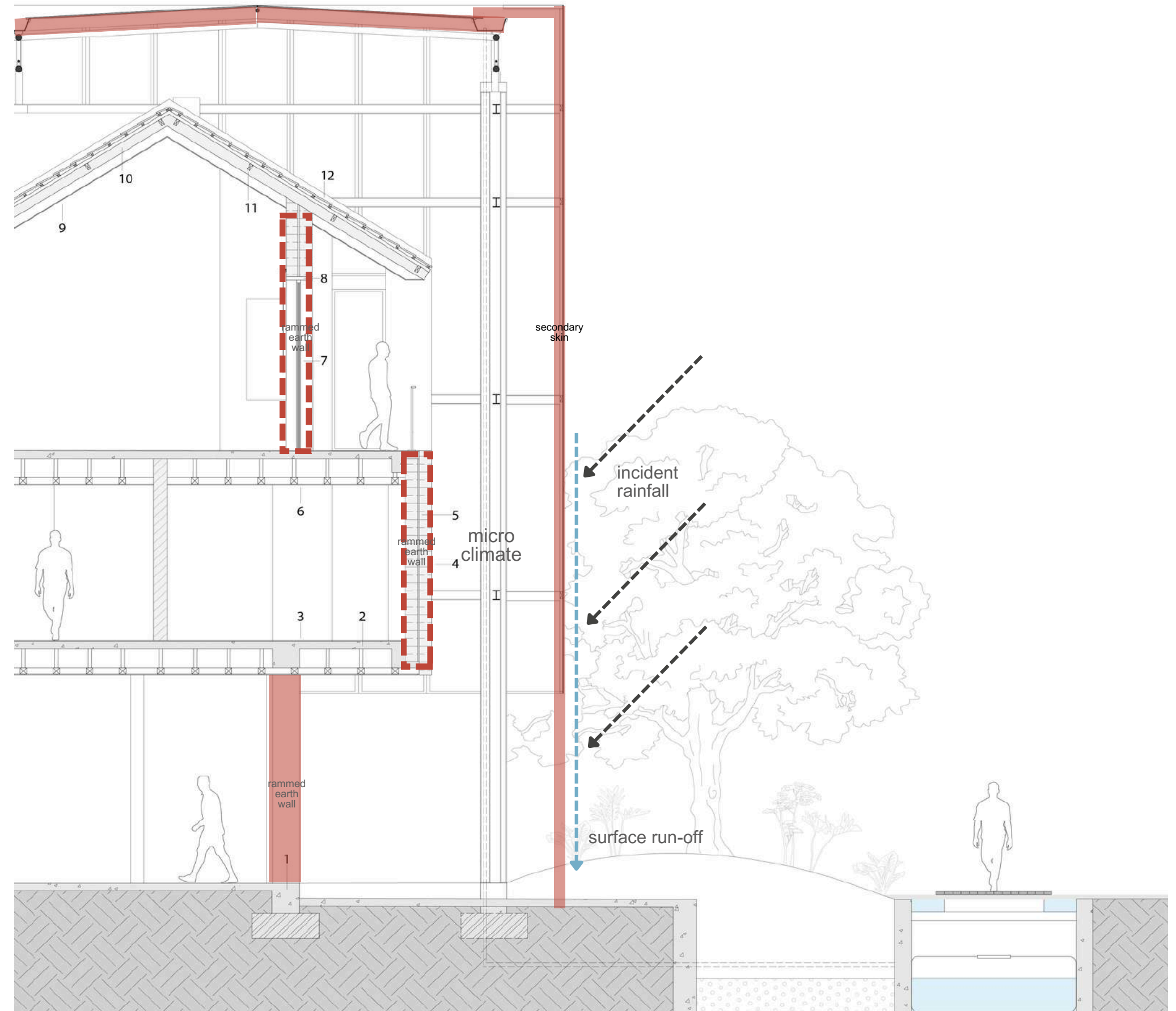


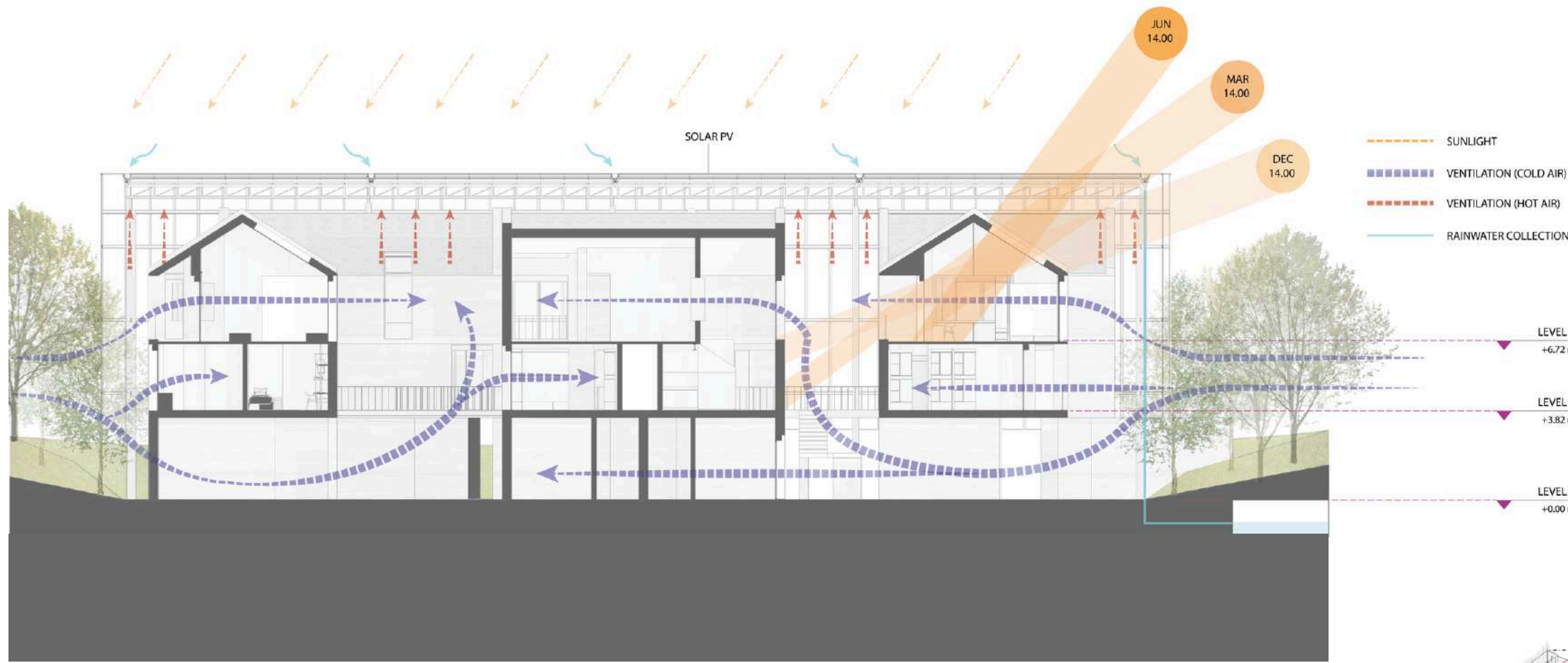
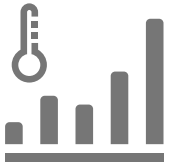
A. 'natural' effect on rammed earth



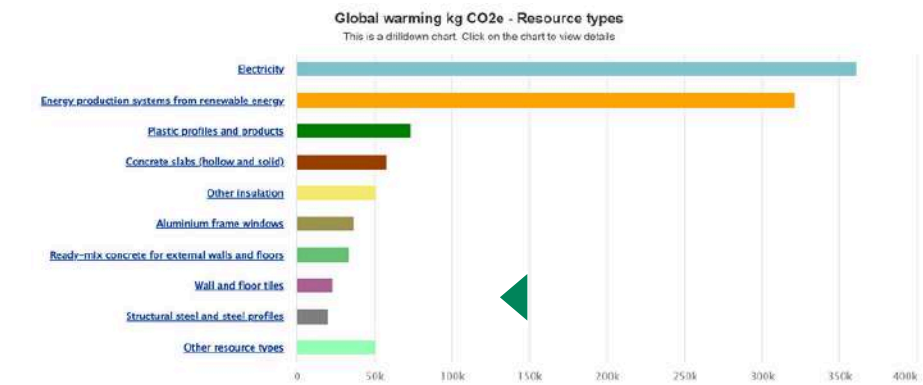
B. 'secondary' skin + rammed earth

- slow down erosion
- stabilises over time
- remove moisture from the wall
- insulates heat
- comfortable indoor climate



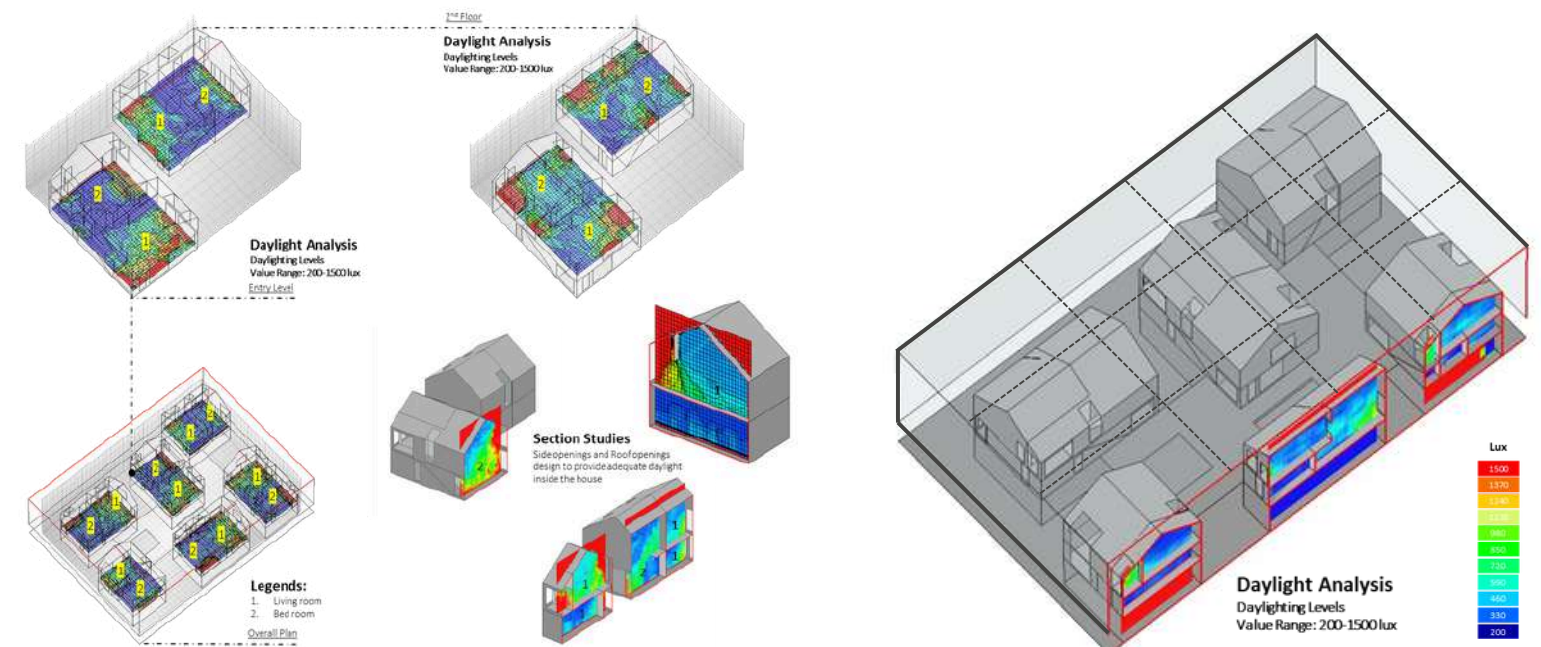


Cradle to grave (A1-A4, B4-B5, C1-C4)	kg CO ₂ e/m ²
< 350 A	332
(350-530) B	
(530-710) C	
(710-890) D	
(890-1070) E	
(1070-1250) F	
> 1250 G	



The ETFE roof plays a key role in regulating daylight and thermal comfort, allowing ample natural light while minimizing direct solar heat. This keeps interiors bright yet cool, ensuring occupant comfort. The detached massing strategy enhances daylight distribution through multiple side and top openings.

Studies showed that combining side and top lighting provides effective daylight penetration. The living room receives high daylight levels (500–1300 lux), creating a vibrant space, while the bedroom, designed for rest, maintains a softer light level around 200 lux across 50 m².





Second Floor Plan

Legend

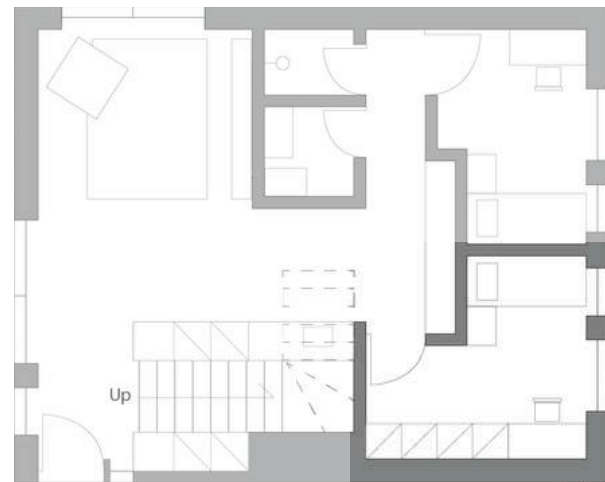
- 1. 6 & 8 Bed Unit
- 2. Single & Double unit





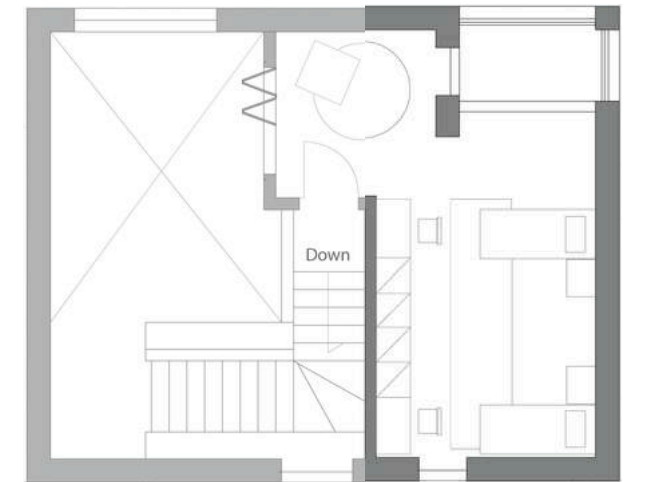
Single Room

Capacity: 1
Area: 25



Double Room

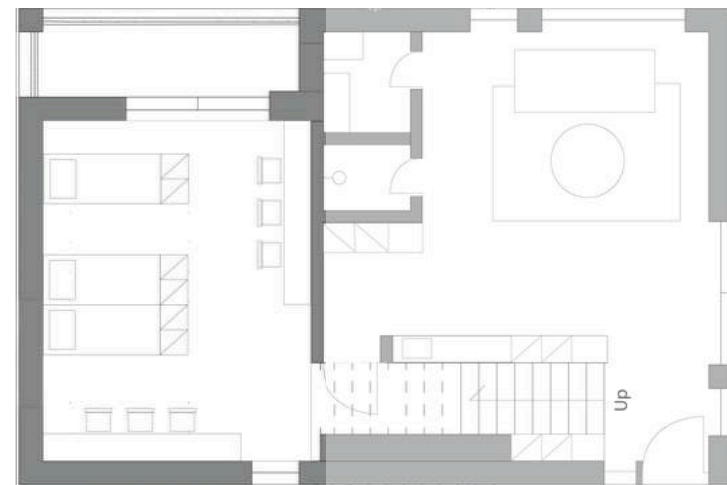
Capacity: 2
Area: 40





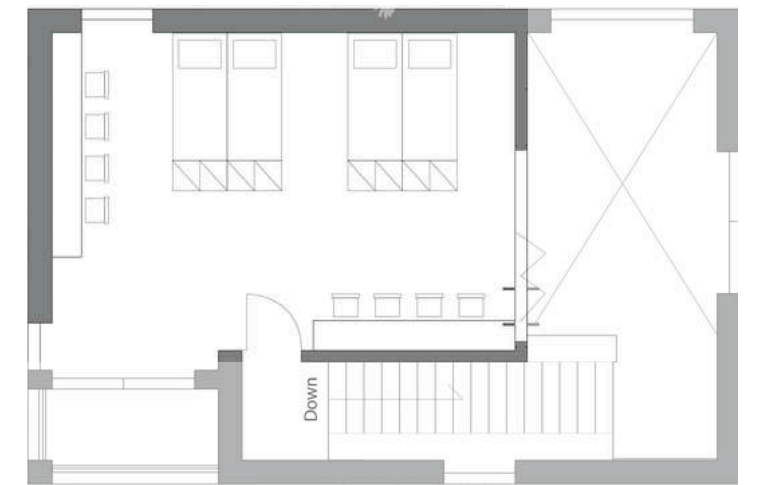
6-Bed Room

Capacity: 6
Area: 40



8-Bed Room

Capacity: 8
Area: 45



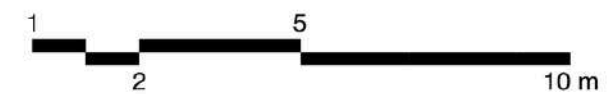


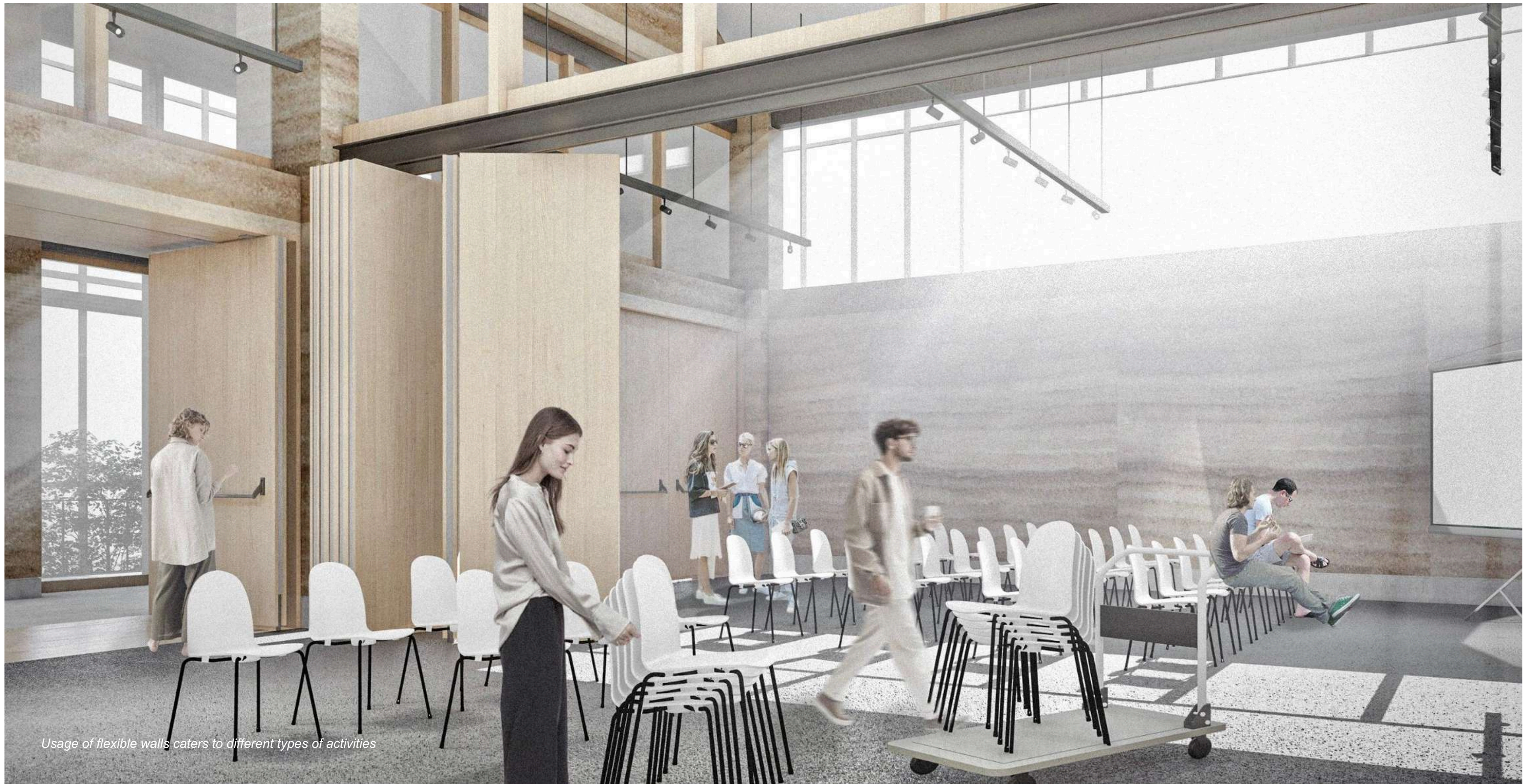
Building B | Multipurpose Hall

Legend:

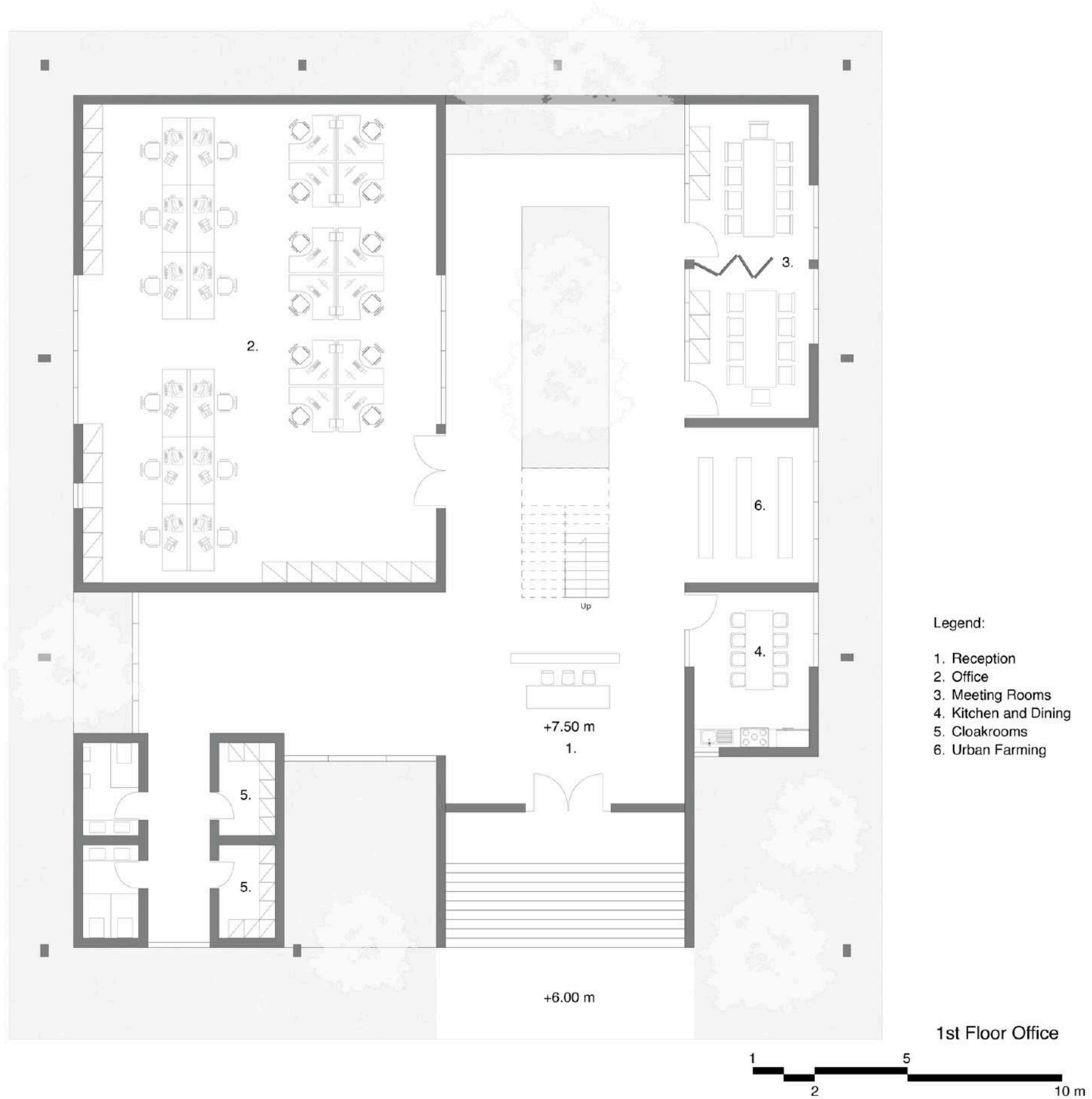
- 1. Reception
- 2. Office
- 3. Prefunction Area
- 4. Main Hall
- 5. Storage

2nd Floor Multipurpose Hall





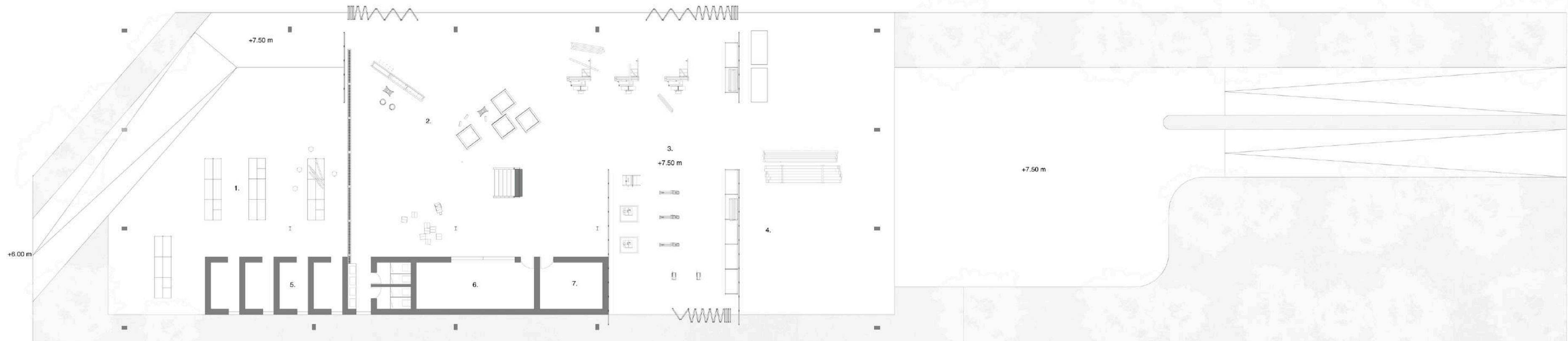
Usage of flexible walls caters to different types of activities



Building C | Office



Building D | Laboratory



Legend:

- 1. Assembly Area
- 2. Prototyping Area
- 3. Machine Area
- 4. Loading Area
- 5. Machine Rooms
- 6. Materials Lab
- 7. HVAC

1st Floor Laboratory

