
XUDONG WANG

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SELECTED
WORKS

P O R
T F O
L I O

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RESUME

Professional Experience	Nov 2017-Juan 2018	Student Intern in Atelier XUK, Shanghai, China Project: Zhangjiabang Park Service Centre Shanghai, China (Helped with Design Development, Digital Model Making) Project: Luxiangyuan Property Roof Expansion Shanghai, China (Helped with Documentation, Digital Model Making)
	July 2017-Sept 2017	Student Intern in GOA Design Office, Shanghai, China Project: Low Carbon Commercial Property Kunshan, Jiangsu, China (Helped with Site Analysis, Concept Design, Design Development, Physical Model Making) Project: Entrance Landscape Renovation in Wanke Office Park Shanghai, China (Helped with Site Analysis, Design Development, Physical Model Making)
Education		The University of Melbourne, VIC, Australia July 2018-Present Master of Architecture Program, Faculty of Architecture, Building and Planning
		Tongji University, Shanghai, China Sept 2013-Jun 2018 Bachelor of Architecture Program, College of Architecture and Urban Sept 2012-Jun 2013
Professional Skills	2D Graphic 3D Modeling Visualization	Photoshop advanced Illustrator advanced InDesign advanced AutoCAD advanced SketchUp advanced Grasshopper intermediate Revit intermediate Rhino advanced V-ray advanced Lumion intermediate
Researches & Awards	May. 2017 2016 - 2017 July. 2016 Mar. 2016 2013 - 2014 2012 - 2013	Bond Factory Renovation Design Competition, Shanghai, 1st Prize College of Innovation and lean start-up, Shanghai, P.R. China National Scholarship Ministry of Education of the People's Republic of China, P.R. China The Efficiency Fluctuation of Photovoltaic Equipment Project Leader: Prof. Chen Juan Urban Research and Renewal in Oldfun Area, Shanghai Project Leader: Prof. Shao Yong, Niu Xinyi Excellent College Student Scholarship, 1st Prize Tongji University, Shanghai, P.R. China Excellent College Student Scholarship, 3rd Prize Tongji University, Shanghai, P.R. China

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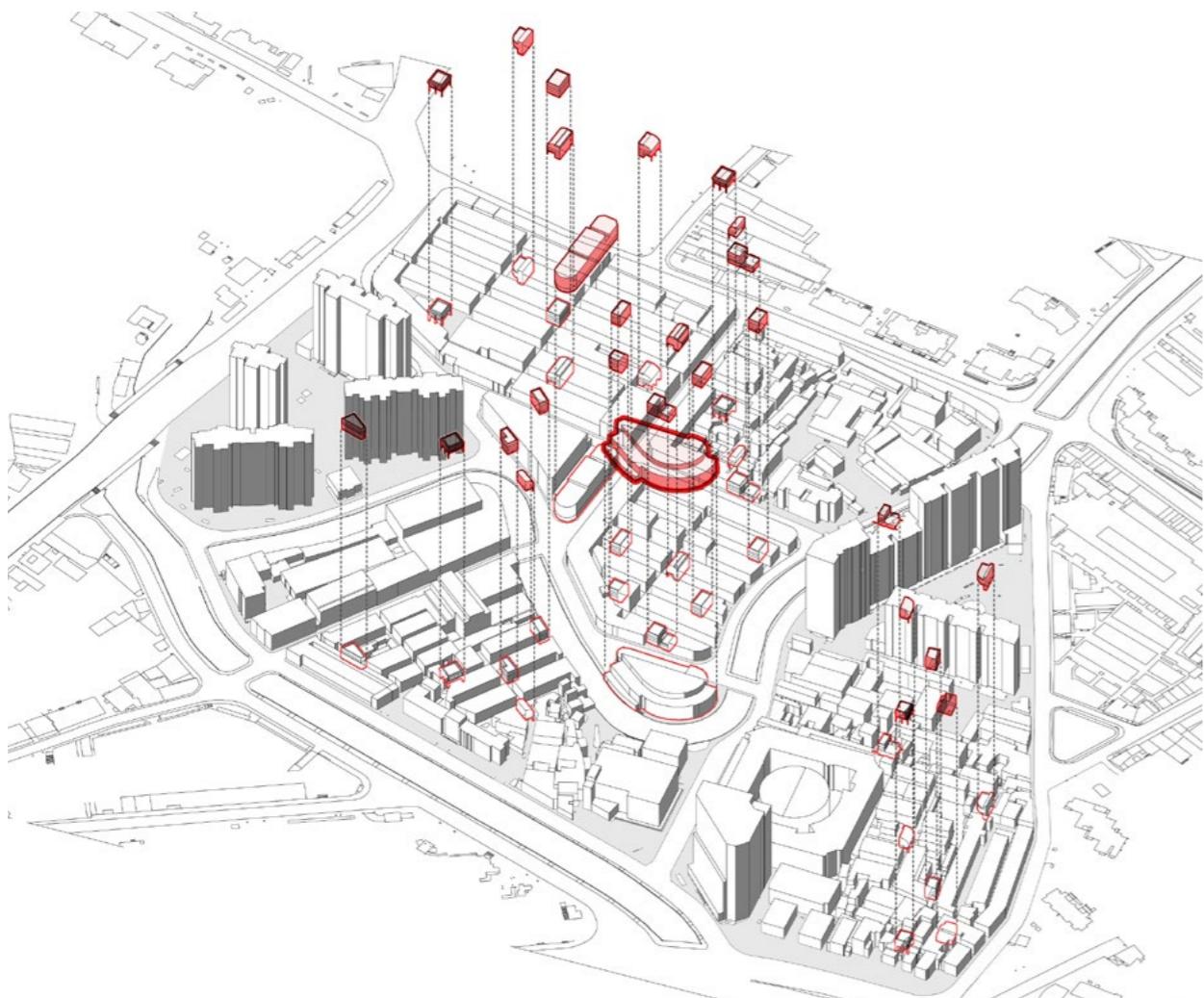
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01 **Community Bridgehead**

--Regional Library Design
8-week Studio Work, Spring 2016
Individual work

This is a studio after an urban planning work. The Old Millfun area has been involved in cultural industry upgrading. Residents are losing their communal spaces due to this gentrification process. However, local people are still trying to maintain their social activities in these spaces. By inserting the *resident-artist complex* which has multiple functions, we try to help local residents regain these spaces and coexist with the cultural industry.



Insert Resident-artist Complex into the Residential Area

A Resident-artist Complex

For converging a communal way for local residents and the ever-developing cultural industry. Artist studios and community facilities are combined with each other as resident-artist complex.

By inserting these complexes into the Old Millfun area, the government provides young artists and residents with free facilities. Those art-resident complexes would provide studio rooms, medical units, community centres in the meantime.

The library by the river is seen as the most important complex with its structural location in between residential area and cultural and artistic centre.

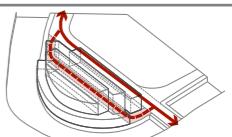


Physical Model: Library as Multifunctional Community Centre

Strategies

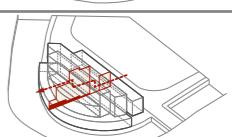
01 A New Inner Street

An inner street paralleled with Zhigao road is set across the site and it is surrounded by open reading areas and community activity rooms.



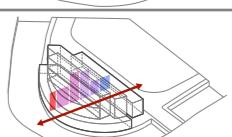
02 Terraces above the Flood Wall

The ground is reformed into three terraces raised gradually and thus gives the whole site a better view to the river and surrounding areas.



03 Sequential Commonality

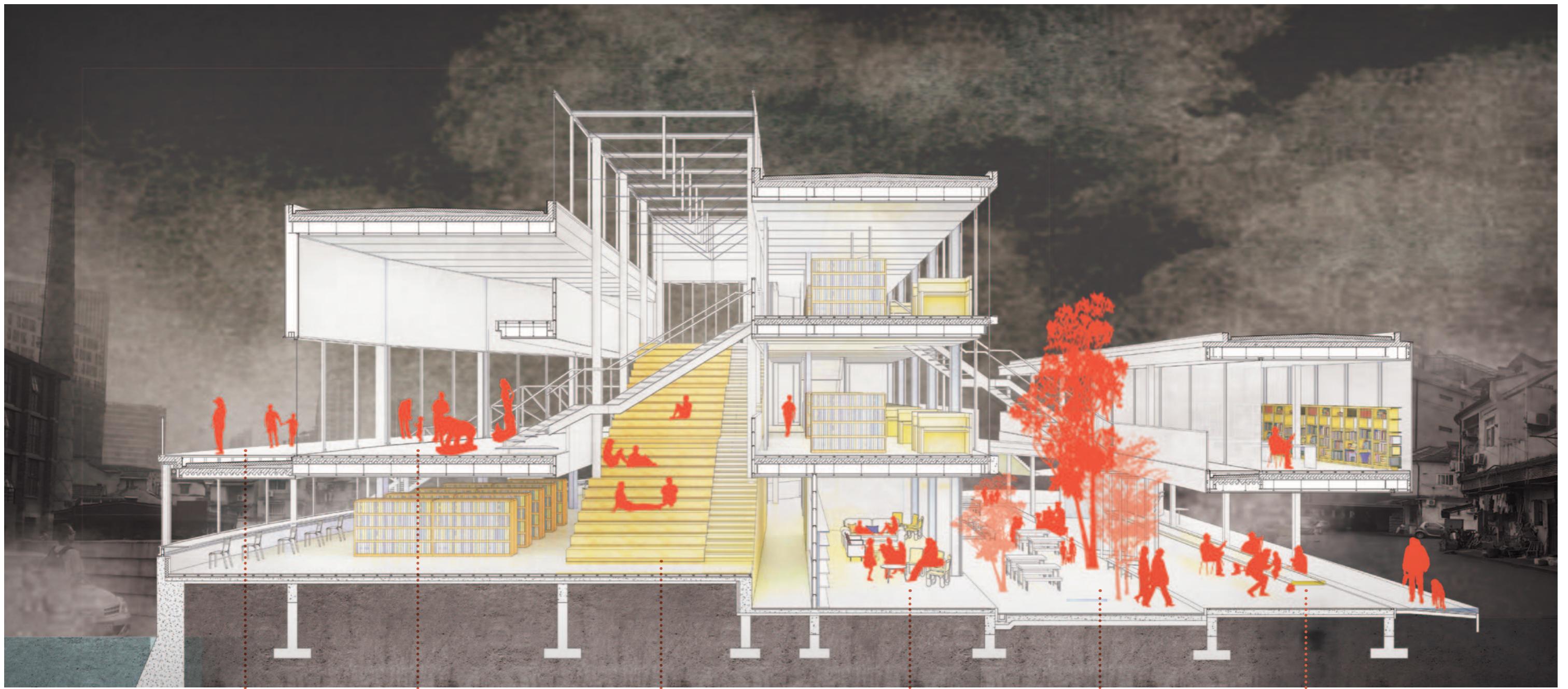
Different function areas are sequenced according to their degree of publicity. Function areas for residents are placed near the residential block, while those for public are closed to the cultural and artistic centre.



04 Woven Circulation

With the strategy to help local residents regain their common space and participate in public activities, multiple moving lines will weave all function areas closely and even extend to the city.

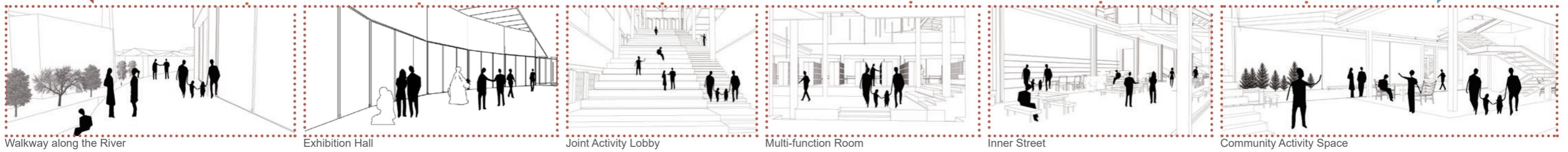




Transverse Section

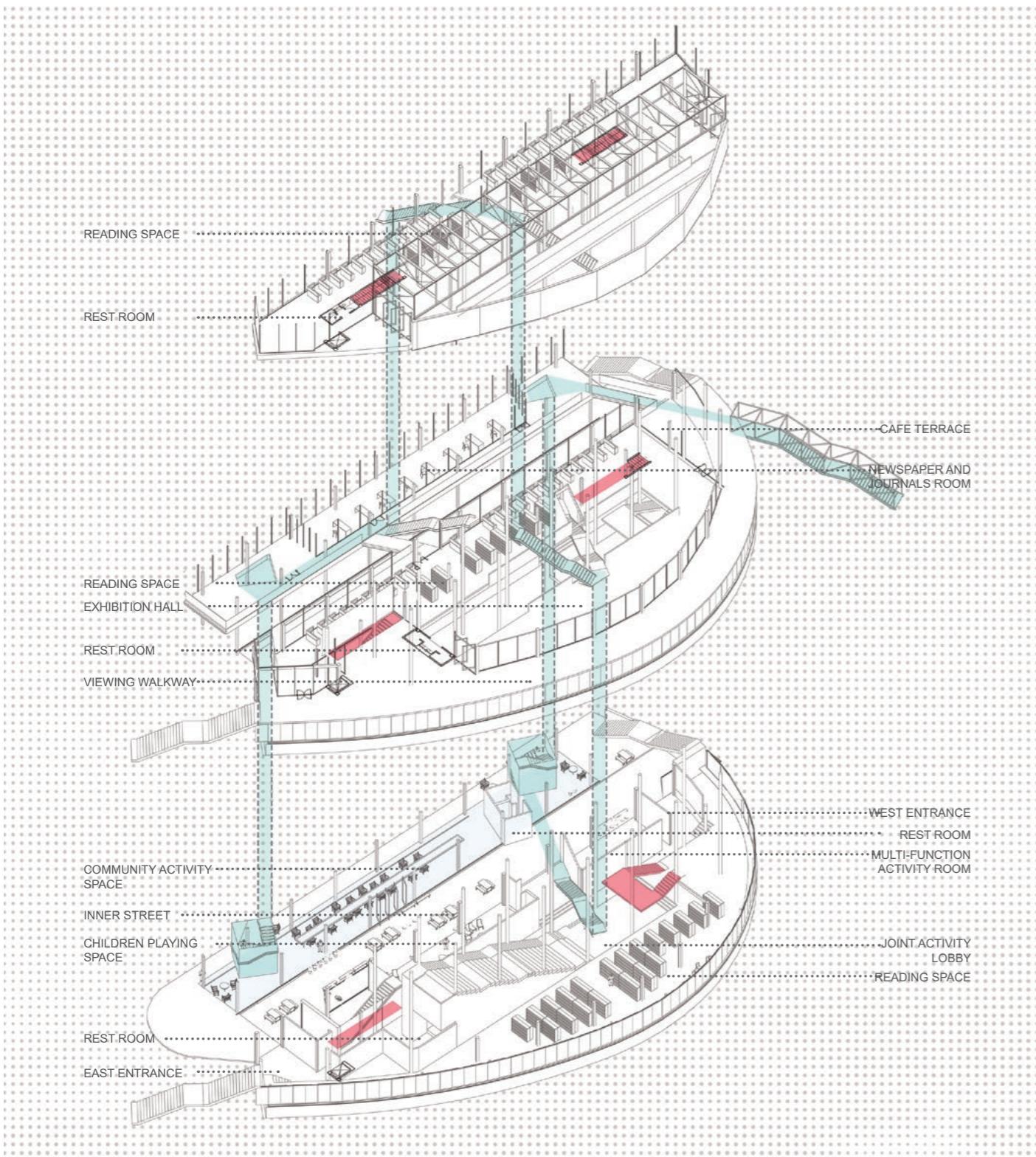
Public

Communal



A Mixture of Functions

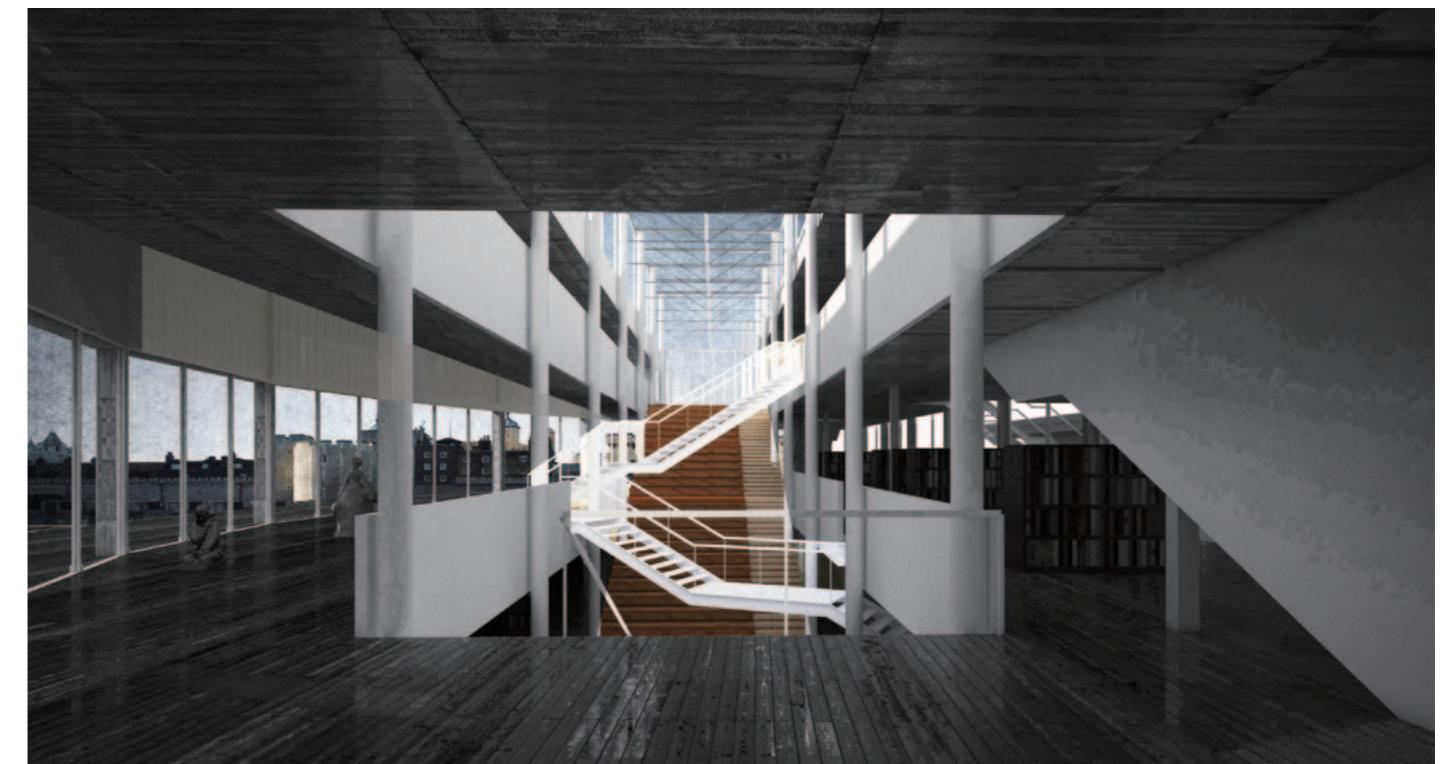
For providing local residents with more communal spaces and opportunities to participate in public activities, the whole building is integrated with a series of functions including the library, the exhibition hall, activity rooms and so on. Since the site is in between the residential area and city artistic centre, these function areas are sequenced precisely for users from the city and the community.



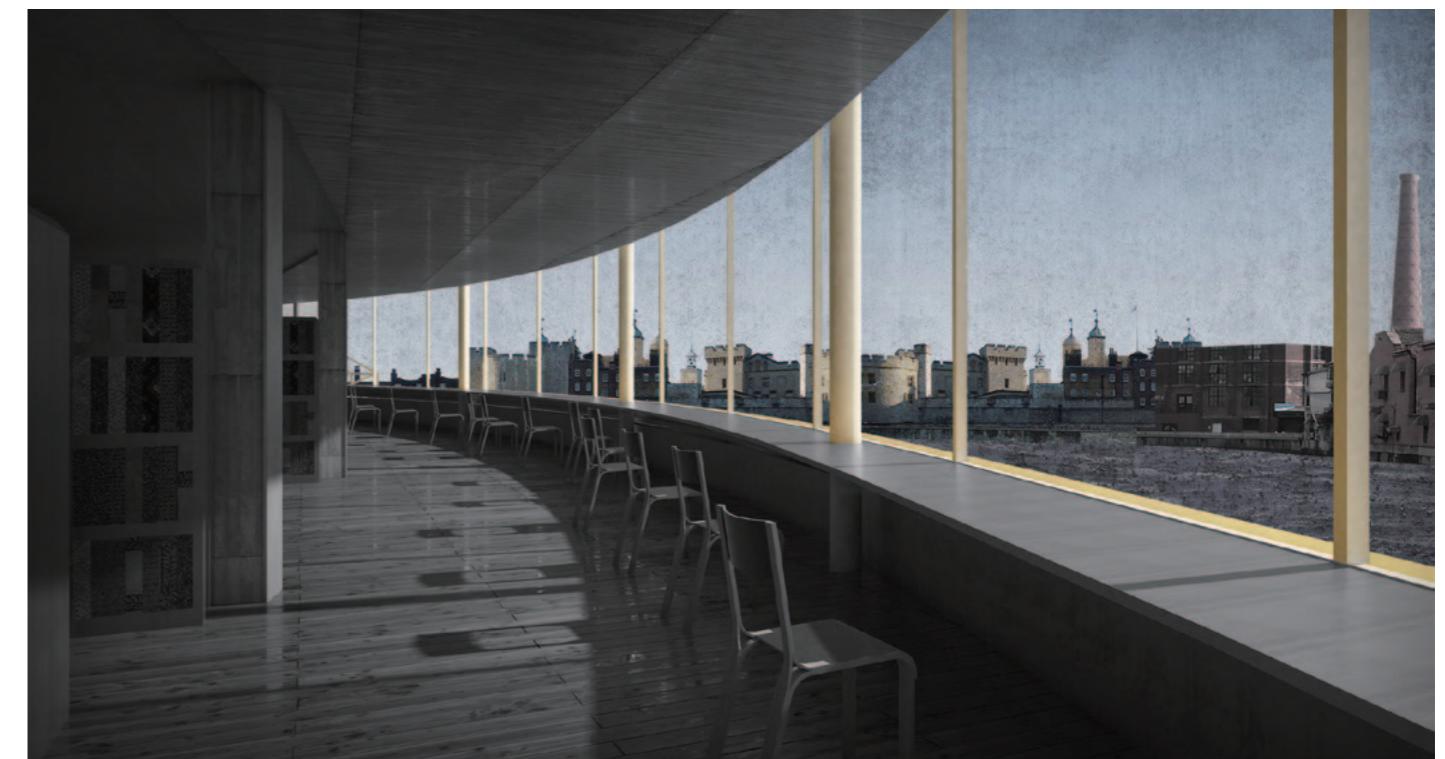
Function Overview Isometric

Interacting Circulation

Since the complex is to act as a community and cultural centre rather than a mere library, most spaces are transparent. And in the meantime, spaces for residents and culture industry are bound together by the interweaving circulation to reinforce this feature.



Joint Activity Lobby



Reading Space: Levitating over the River



1: 100 Physical Model, Extended Circulation



Walkways Spread through the Area

Extend to the City

Extended walkways will be integrated with the landscape in this area. Along with other resident-artist complexes, The multifunctional library will help residents regain their communal spaces from gentrification, and turn the local culture industry upgrading process into a way that could coexist with local residents.





03

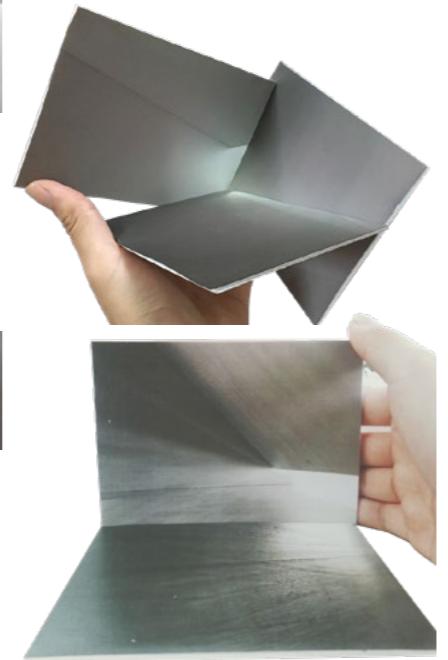
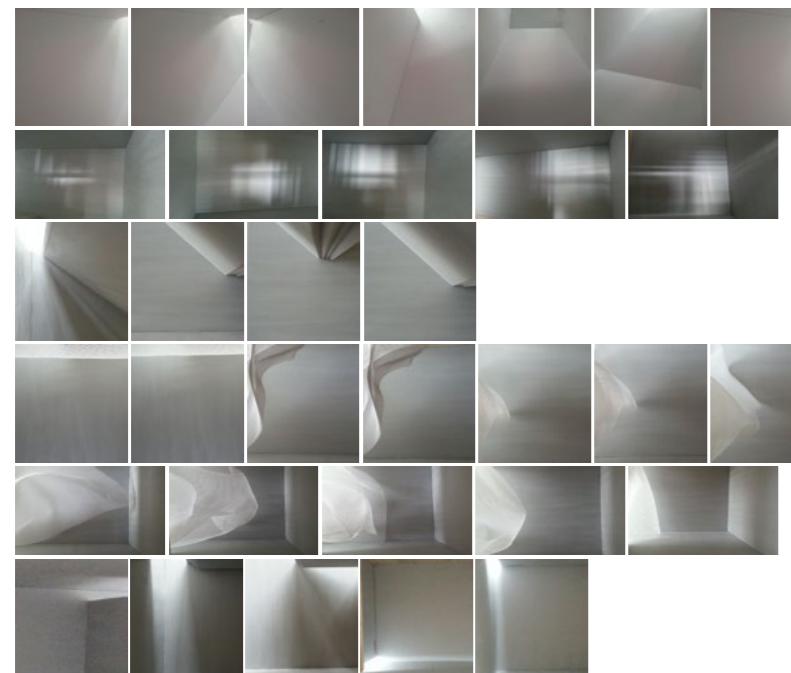
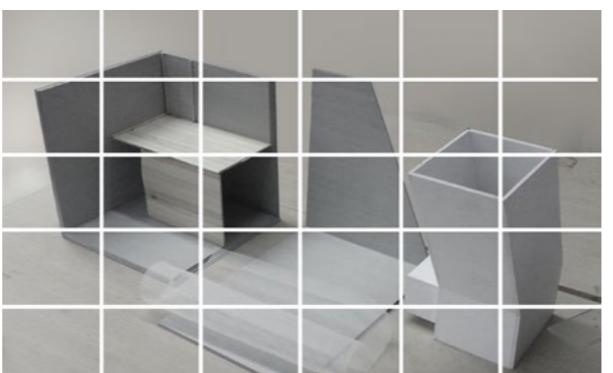
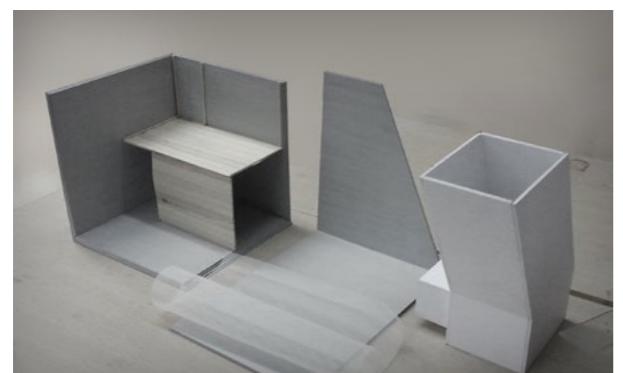
Morpheme Space

--Experimental Design Studio of Design Approaches

8-week Studio Work, Spring 2017

Individual work

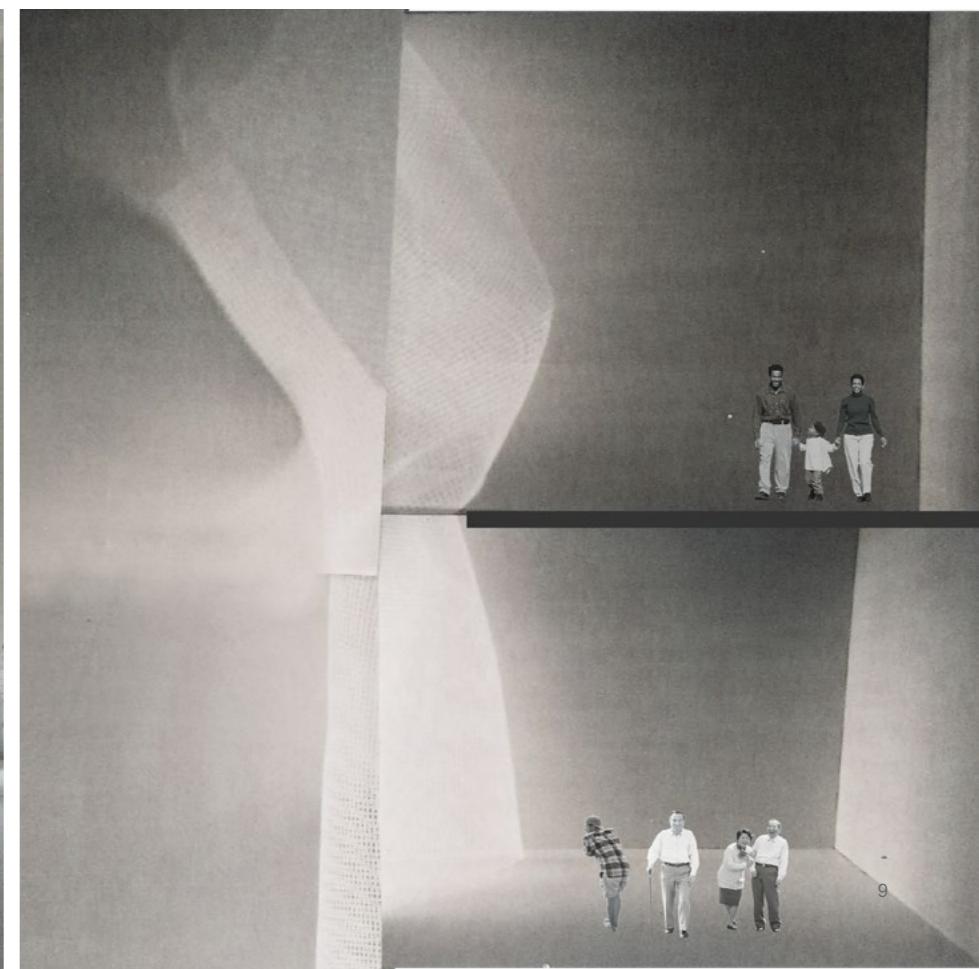
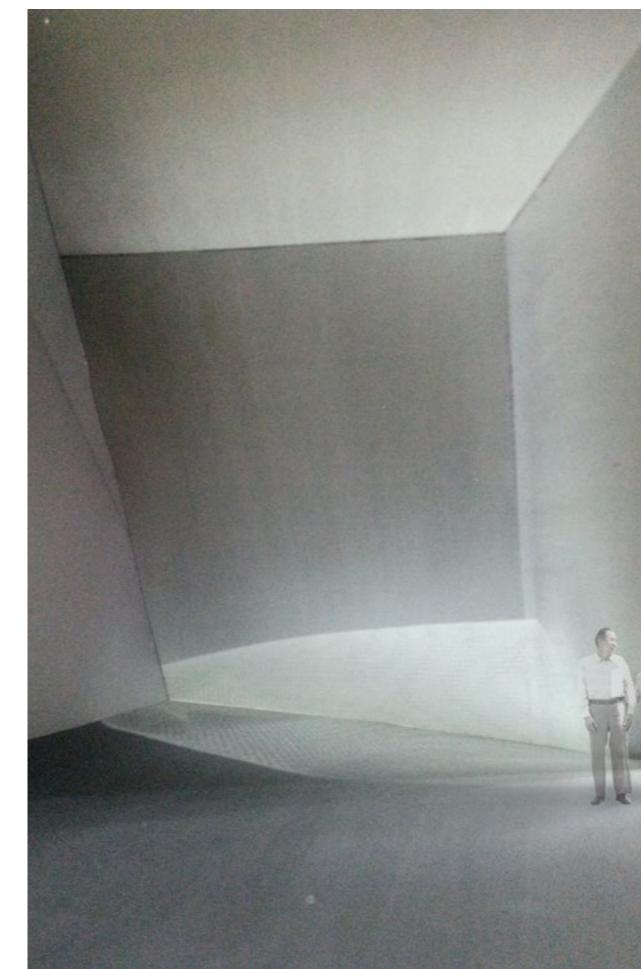
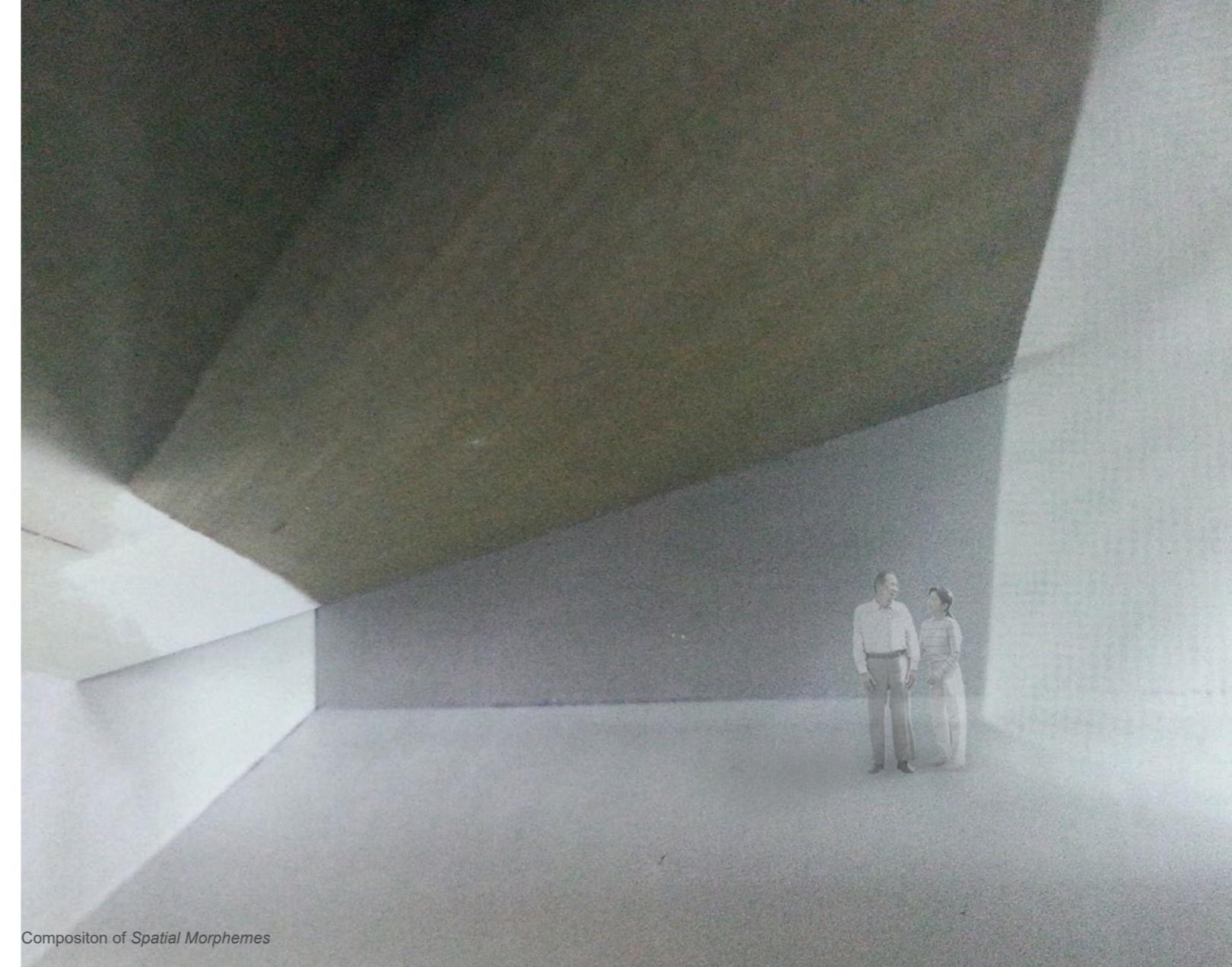
The focus of this experimental studio was to rethink architectural design approaches we learnt during the past years, and develop a new personalized approach. This case shows the attempt to collect the most basic elements of light and shadow, and then collage them into an integrated design.



Model - Morpheme - Space

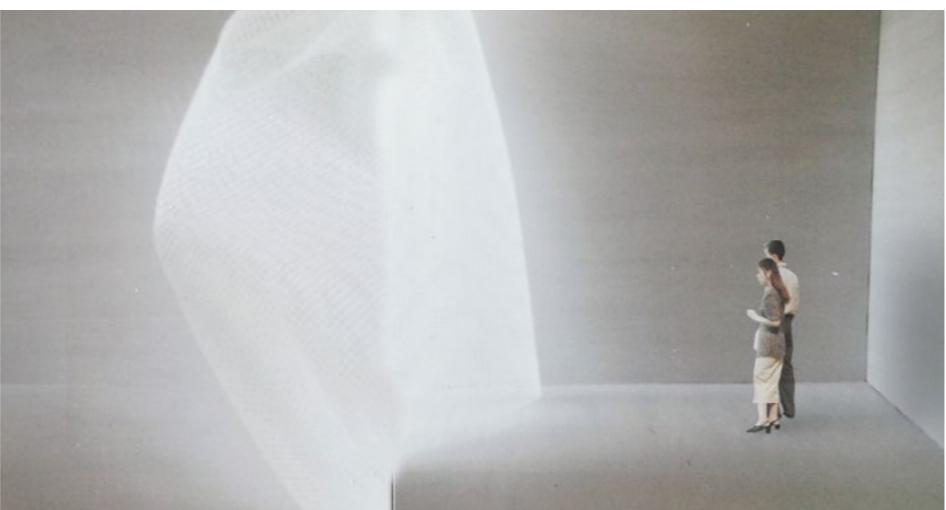
As a contrast of the approaches students have learnt, this experimental design starts by collecting basic elements of a space:

1. A series of models are built as light collectors.
2. Cameras will be stretched into models and captured details under various light conditions, which will return hundreds of results as basic morphemes.
3. Morpheme pictures are made into cards spliced with each other not merely in 2D but 3D and thus produce multitudinous possibilities. Here some results will be totally unrealisable.

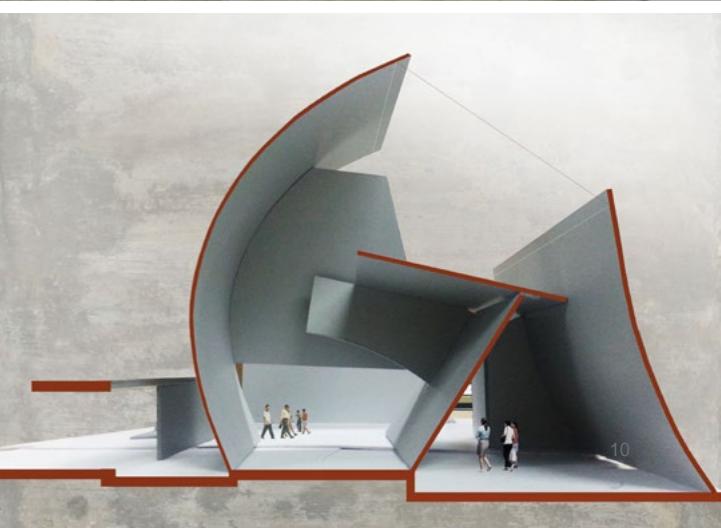
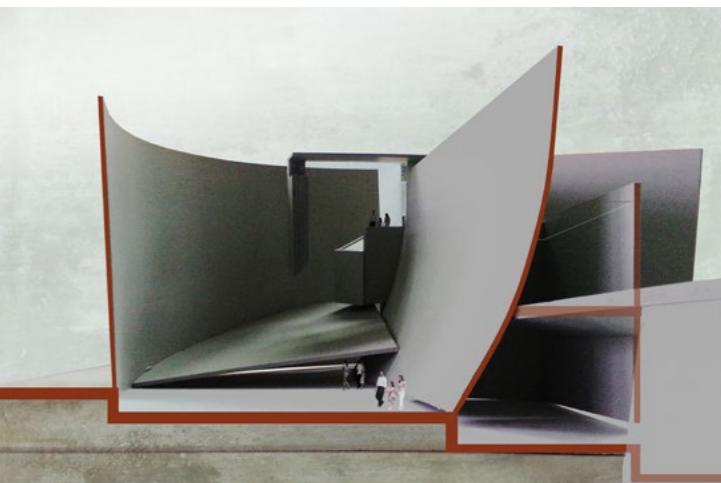
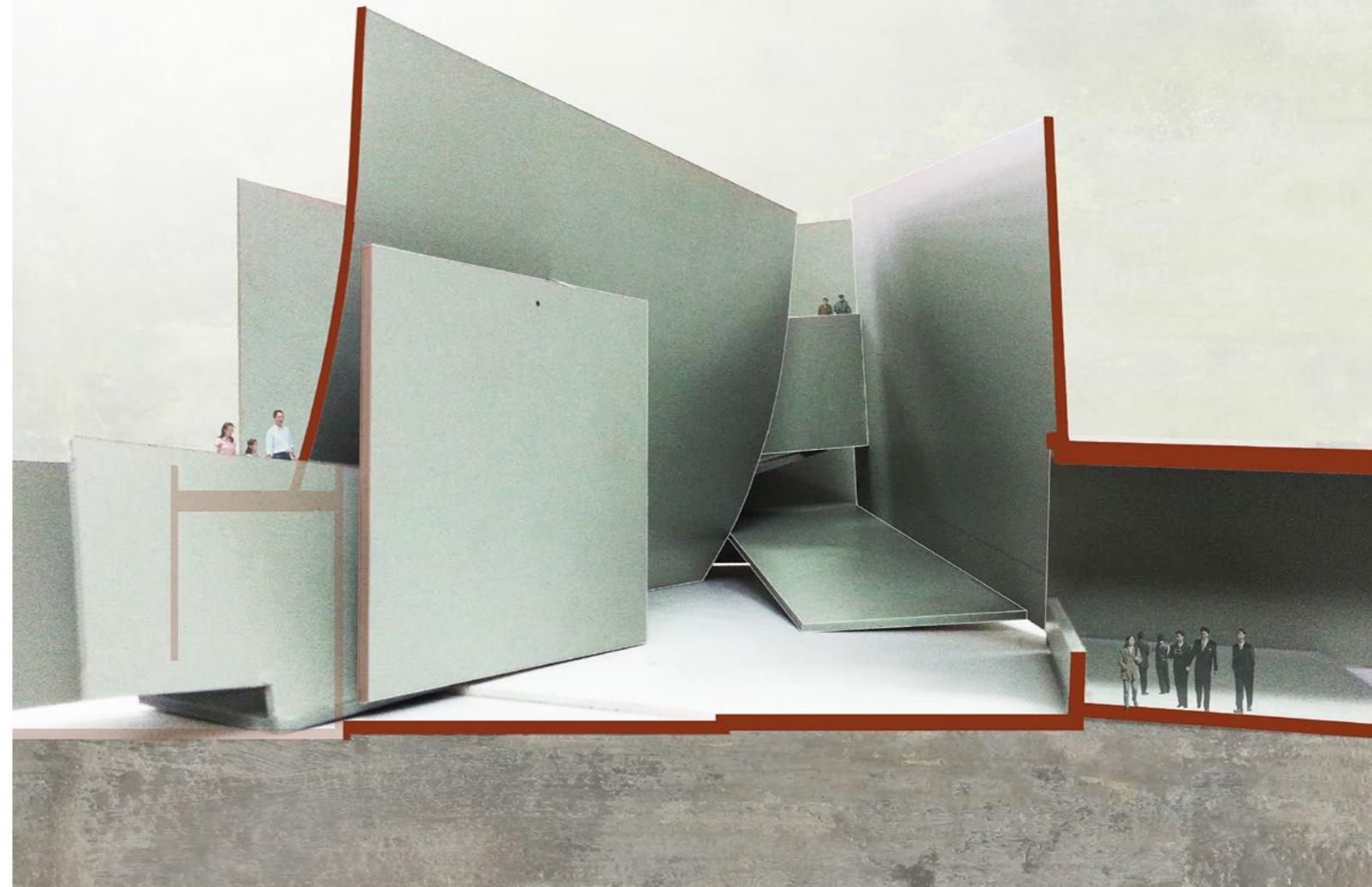
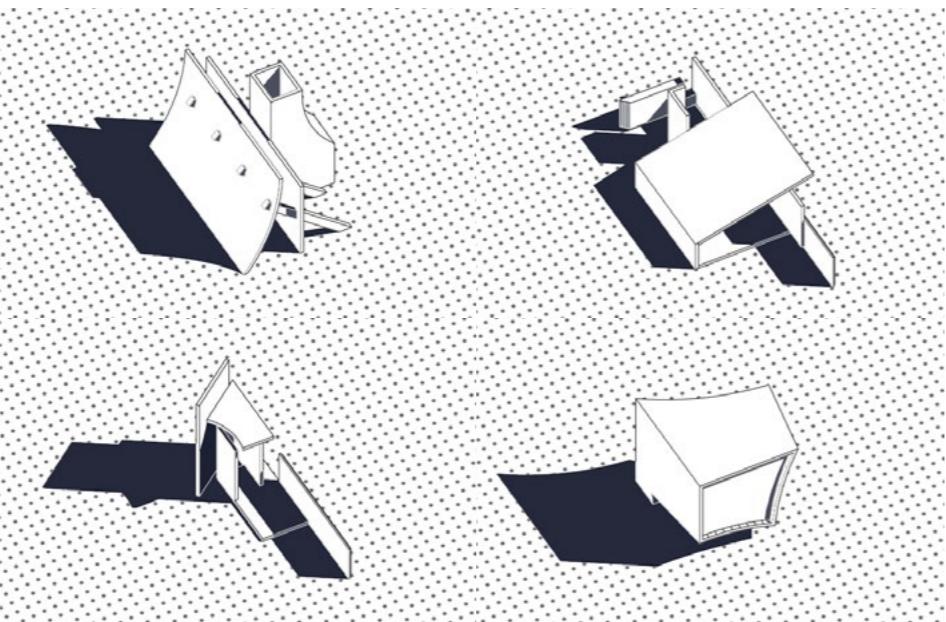


From Composite Imagines to Models

Composite spatial imagines are translated into models for further study. According to their spatial characteristics, spaces will be endowed with functions such as entrances, gardens, study rooms and so on.

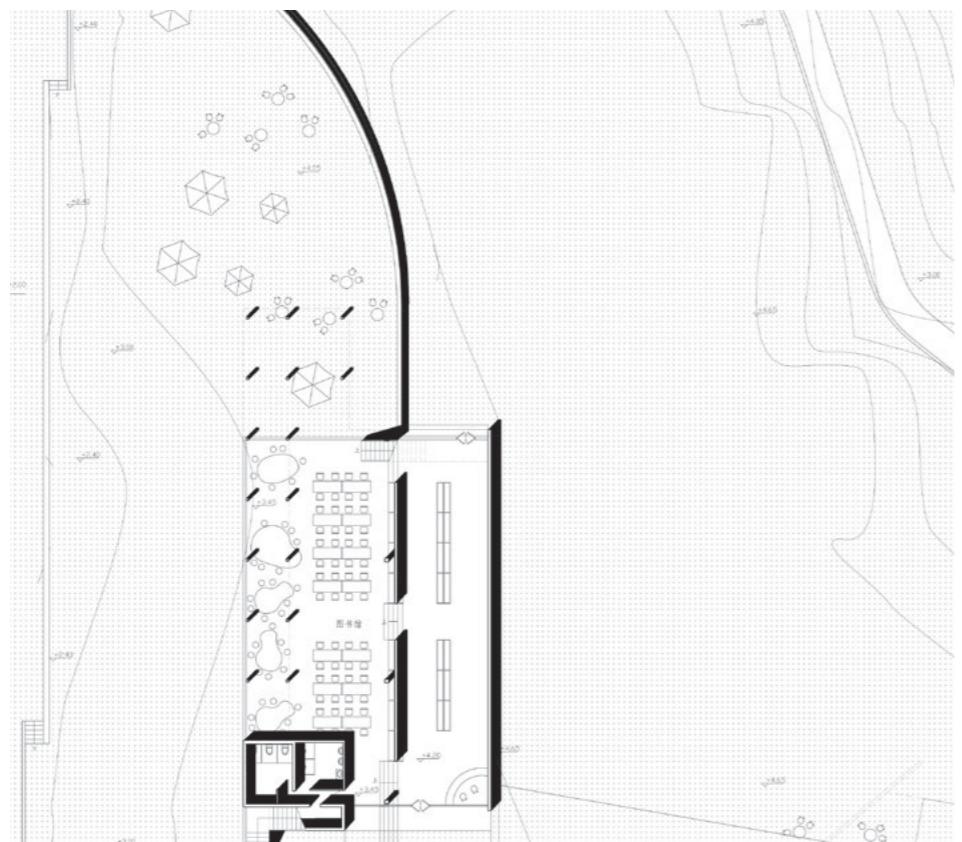


Those spaces will be structured together and developed into completed buildings including dormitories, libraries and theatres.

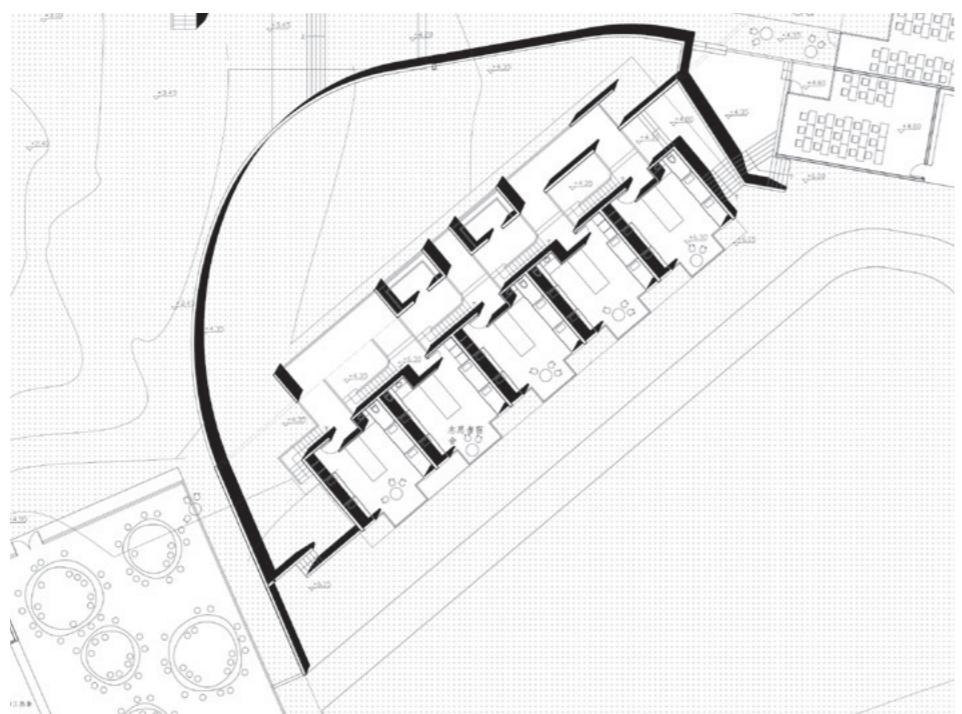


Return to the Environment

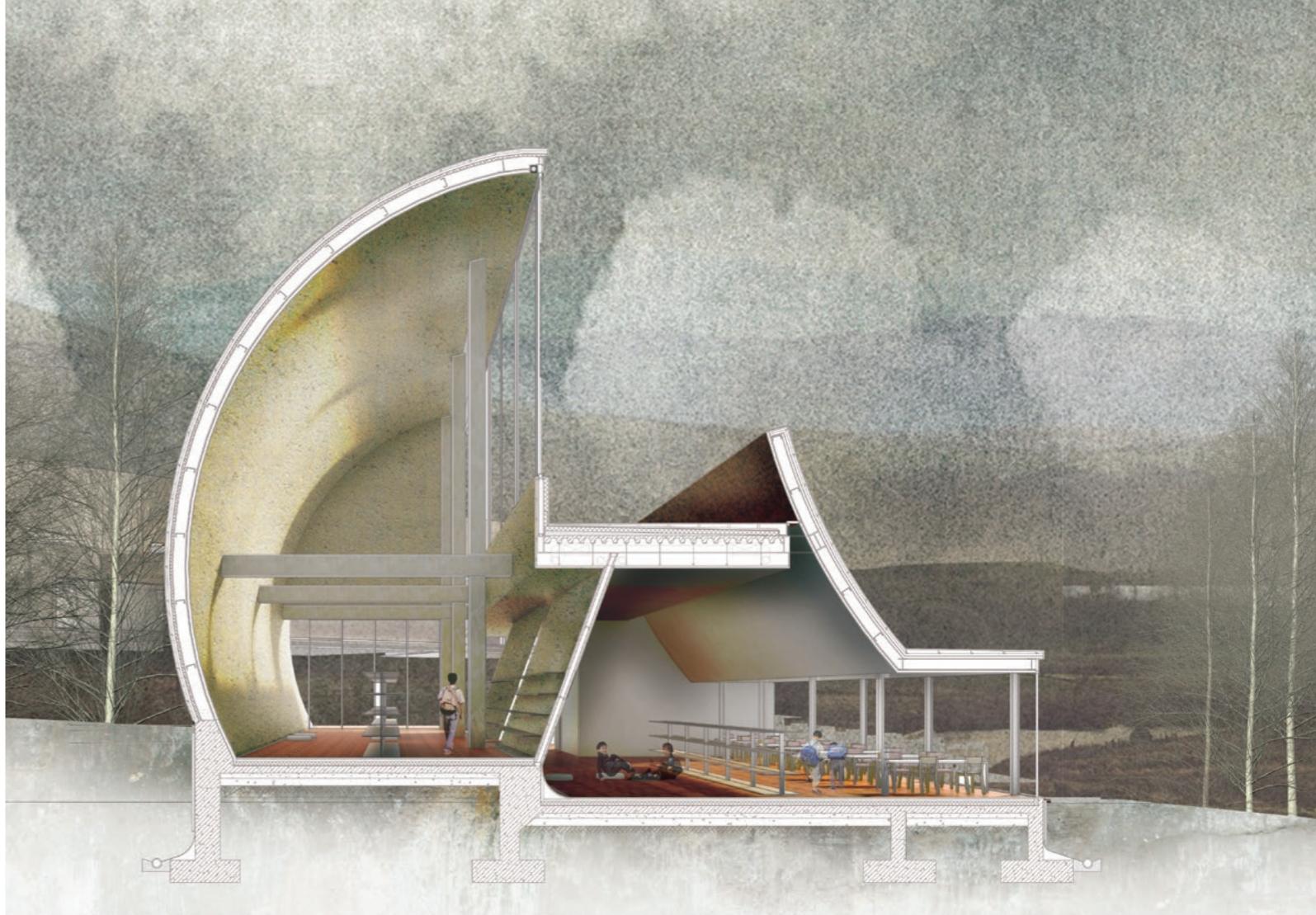
During the final phase of this approach, composited buildings will stay flexible enough so that they can embed themselves into the topography and interact with the environment.



Ground Floor Plan and Transverse Section: Library and Exhibition Hall



Ground Floor Plan and Transverse Section: Dormitory for Students





05

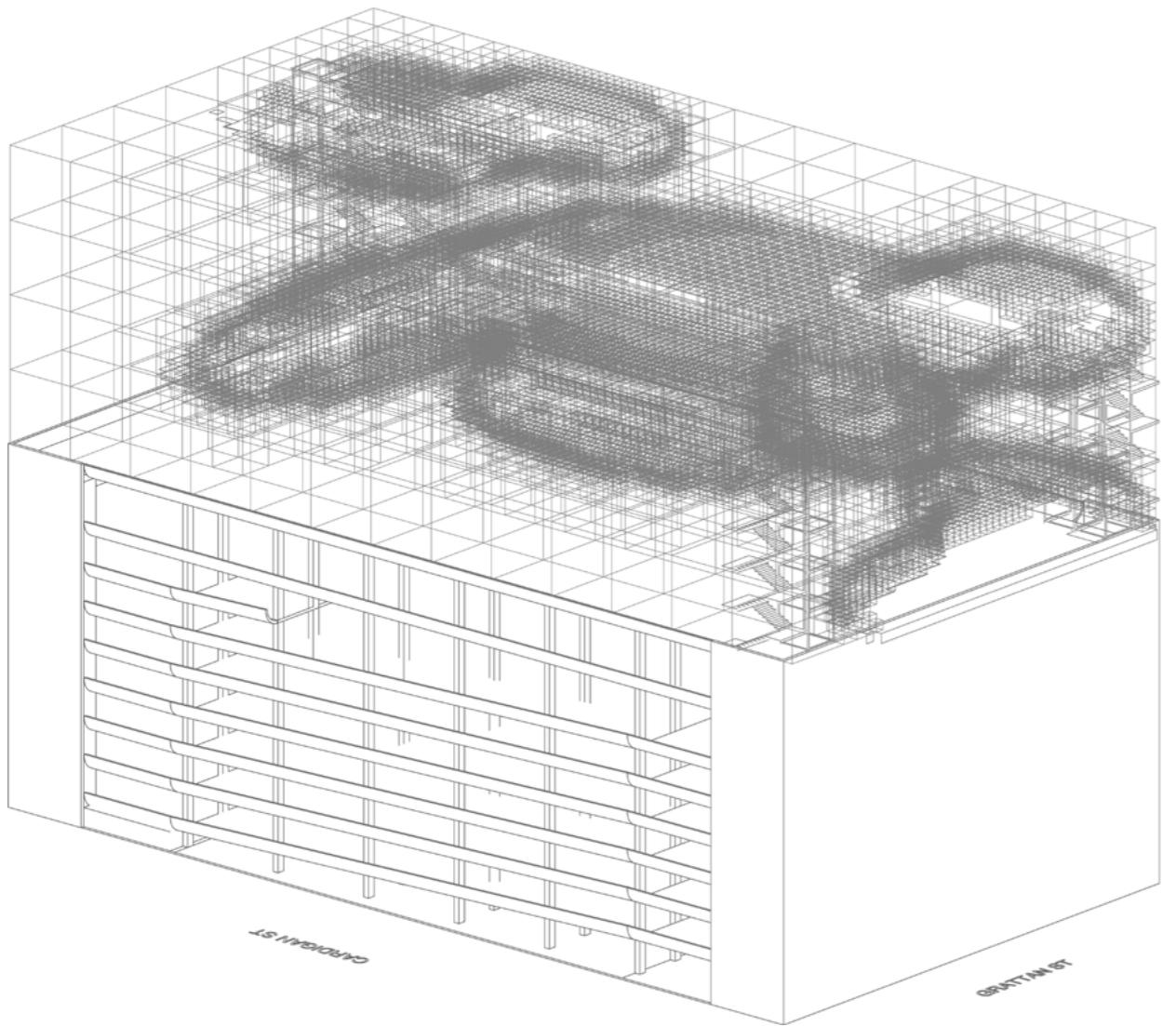
Farming Forest

--Melbourne Urban Farming Research Centre

12-week Studio Work, October 2018

Group Work

This parametric design studio is basically focused on maximizing the utilization of the roofs of existing buildings. Owing to the advance of sunlight and rainwater on those roofs, urban farming became the theme of this proposal, and this expansion project will provide an urban farming research and education centre for the Melbourne Innovation District project.

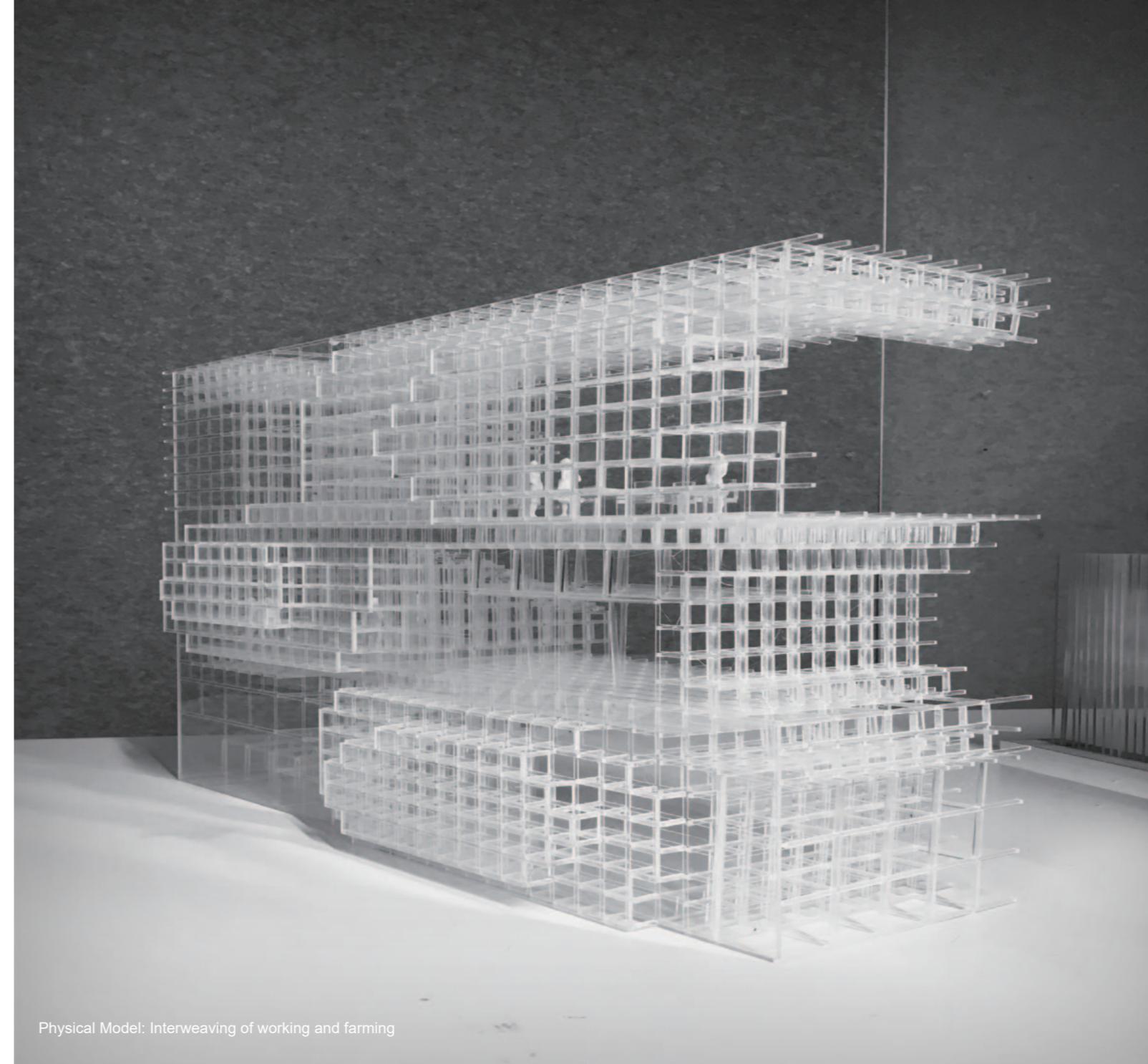
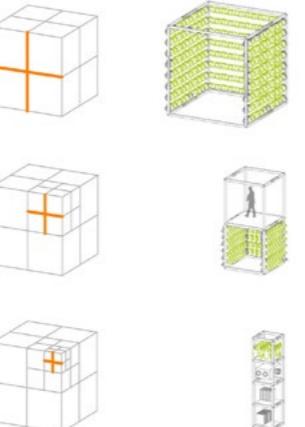


Floating Volumes

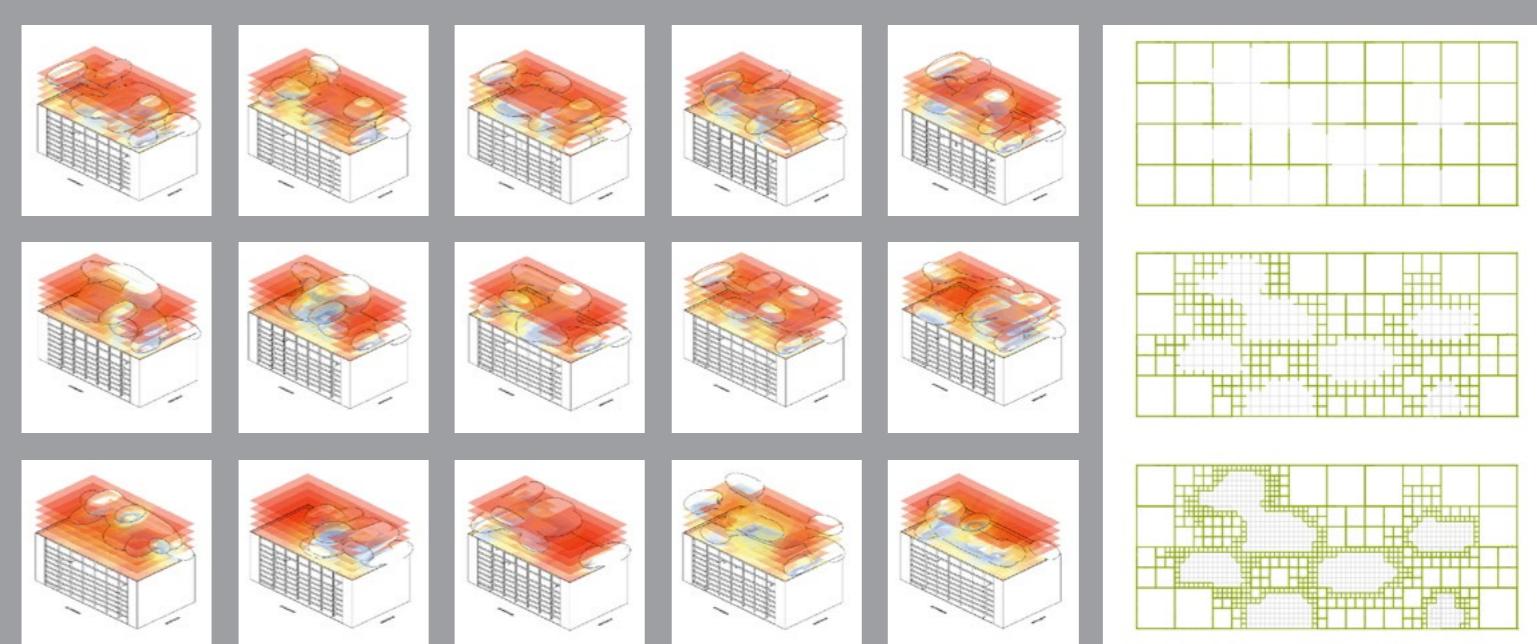
For maximizing the sunlight for crops, Urban farming areas are around the periphery and thus enclose office areas which act as volumes floating within the greenery. Position and shapes of those office volumes are generated according to an iteration of Ladybug sunlight analysis.

Since CLT is required to be the structure of the entire expansion part, the organic configuration is defined by the density of those linear structure elements rather than the exact shape.

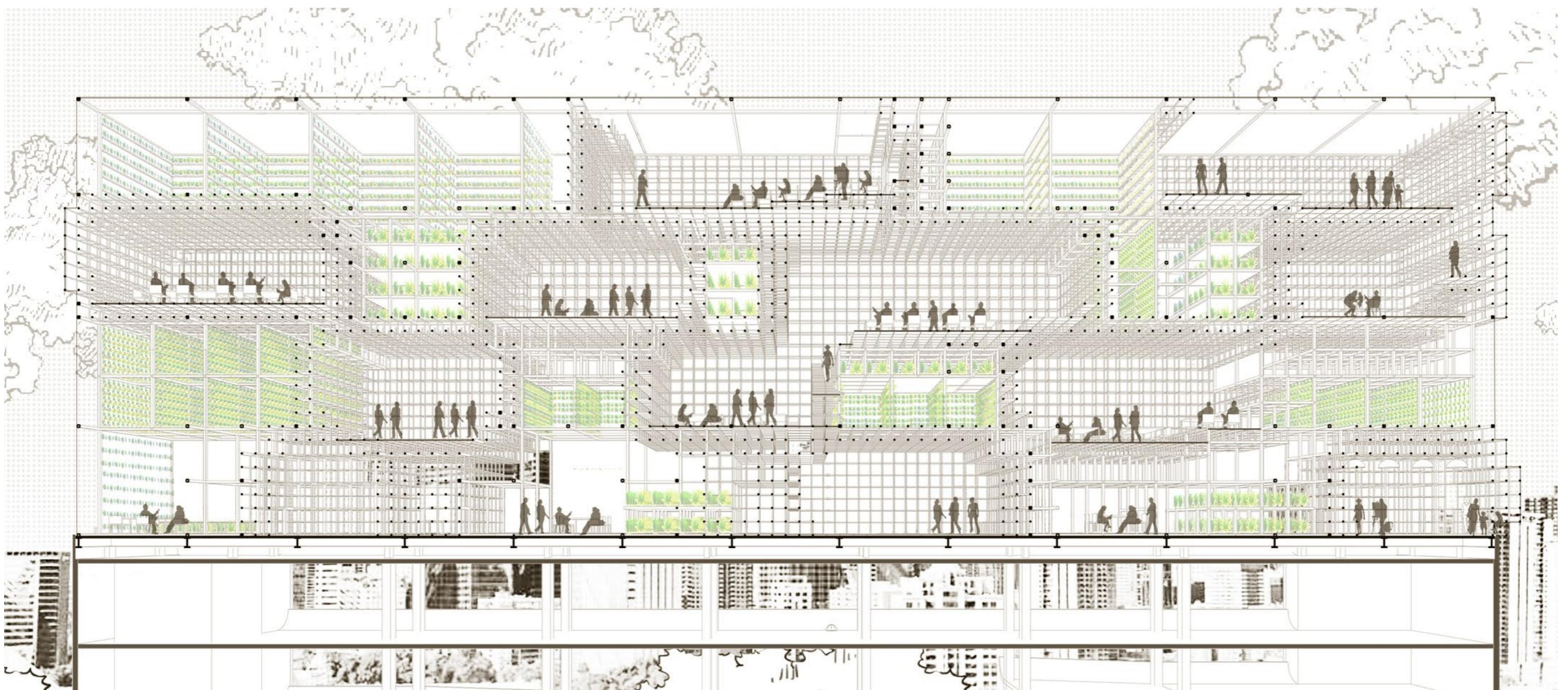
After finding out the configuration which can maximize the sunlight for crops, the 3-dimensional grid will be divided from large scale to small scale. Large volumes are used as vertical farming units, and small volumes are spaces for furniture, building equipment and so on. In the meantime, the division from the outside to the inside gradually define the spaces for office area and farming area.



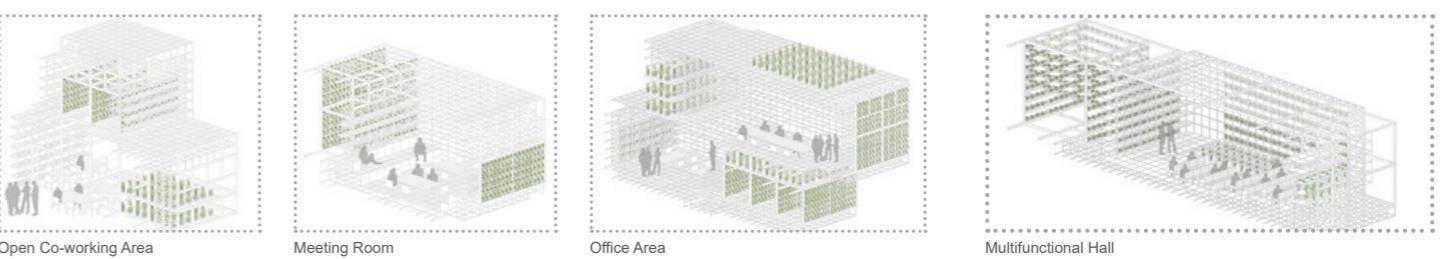
Physical Model: Interweaving of working and farming



Sunlight analysis for different configuration methods

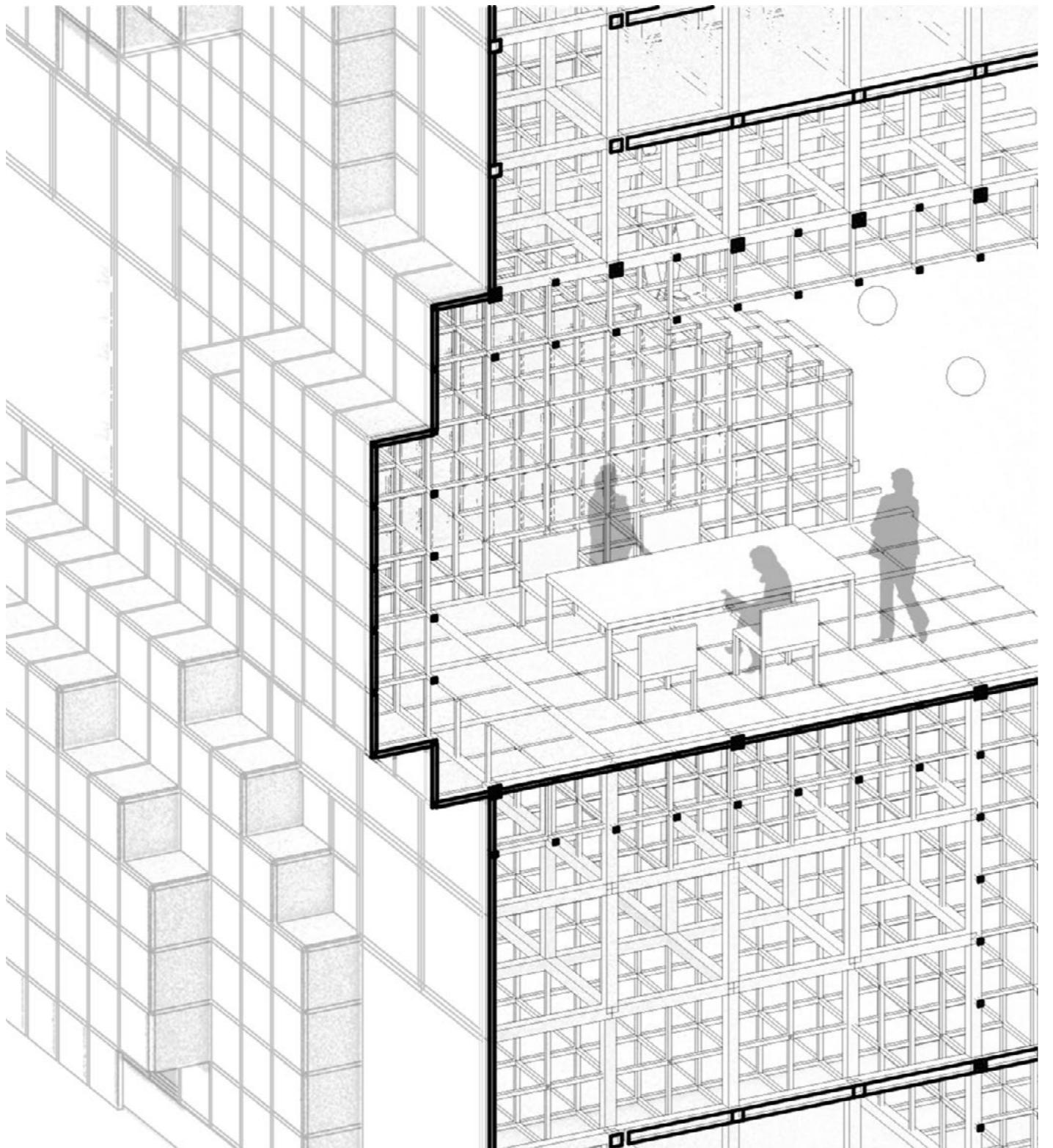


Transverse Section



A Mixture in the Terrarium

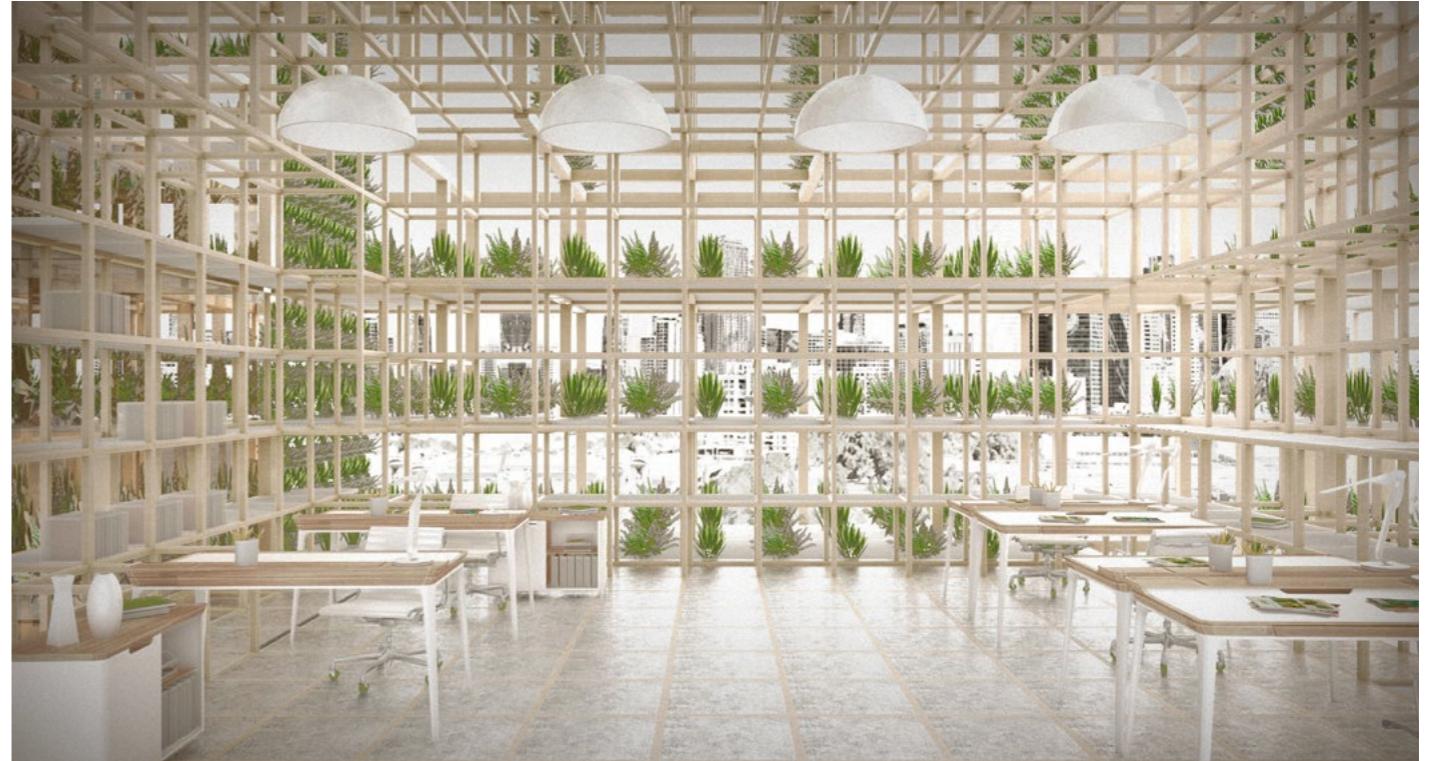
Floating within the mass urban farming terrarium, office volumes would accommodate different functions including collaboration space, private offices, educational hall and urban farming research centre for the Melbourne Innovation District project. All of them are integrated with the urban farming area.



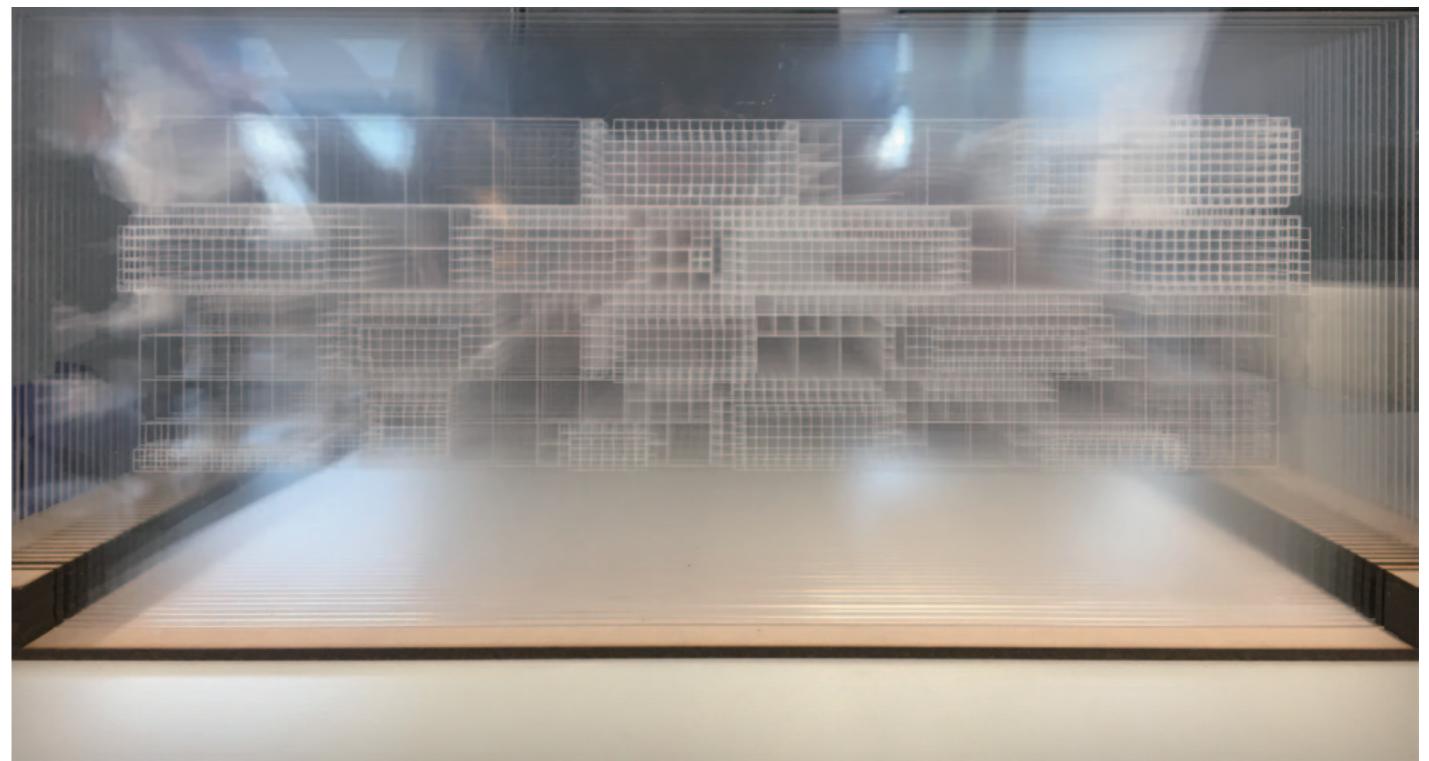
Section Isometric: Office without solid partition

Blurring Boundaries

Generated by density rather than solid partitions, the entire building is of a semi-transparent atmosphere and thus blend the boundary between farming and working, interior and exterior.

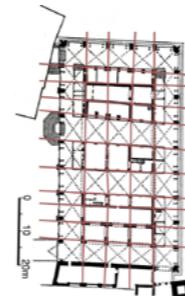
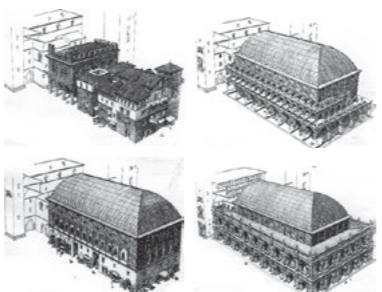
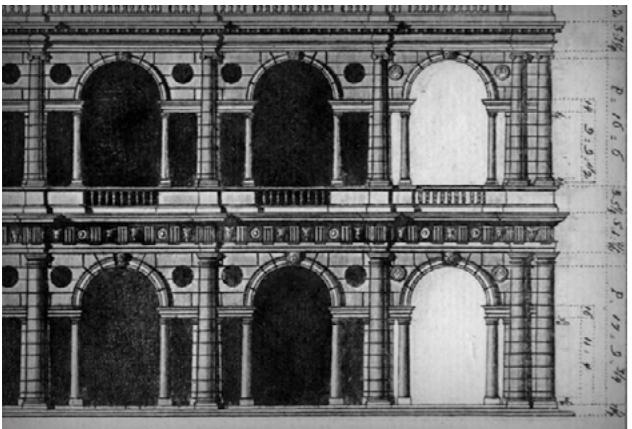


Co-working Space

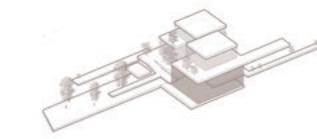


Physical Model: A Semi-Transparent Atmosphere

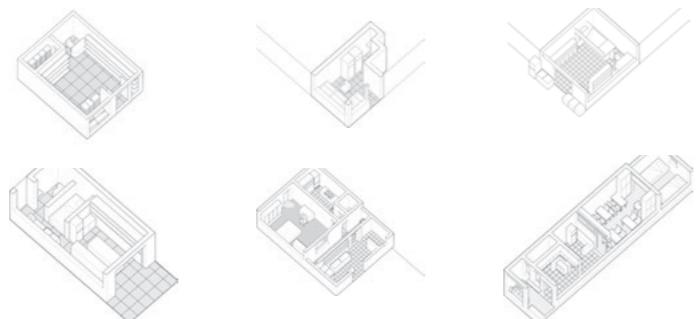
OTHER WORKS & STUDIO RESEARCHES



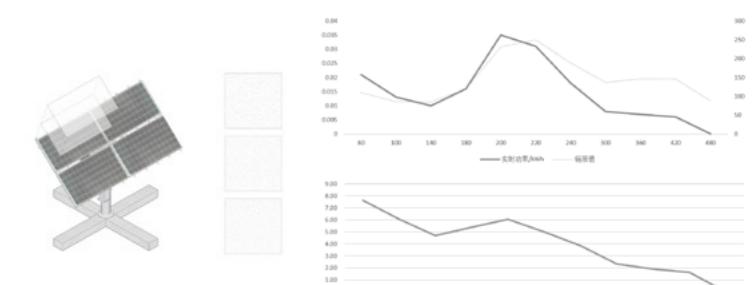
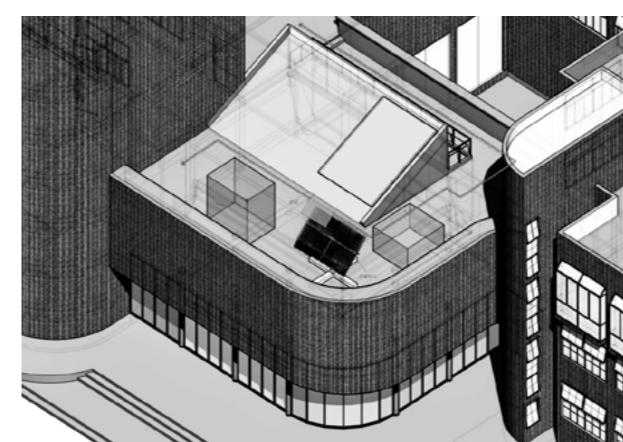
Studio Research on the History of Vicenza Basilica and Palladian Motive
Tutor: Prof. Wang Kai
Partner: Huang Shuyi



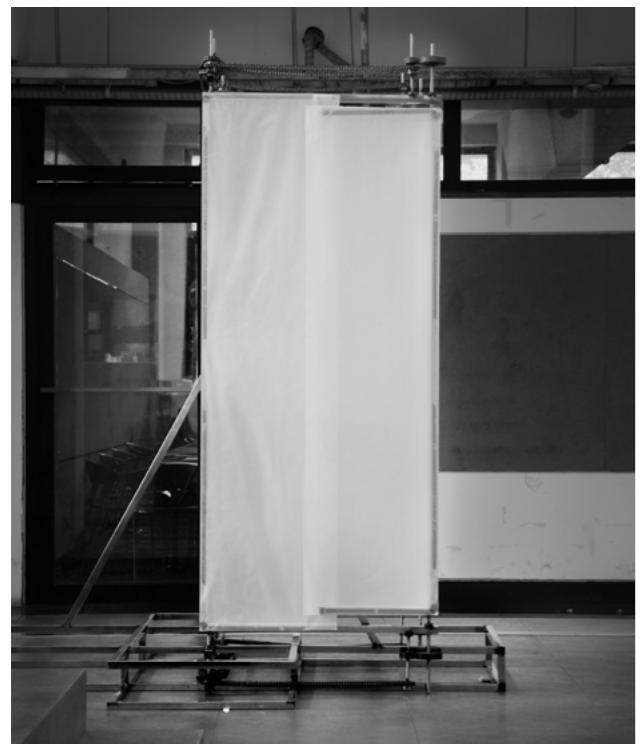
Layer Stage: the Proposal of Factory Renovation in Wujiao Area
Tutor: Prof. Fan Beilei
Partner: Huang Shuyi, Yao Ganjie, Zhang Wanlin



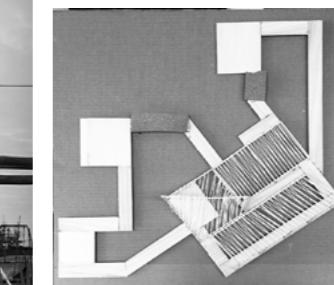
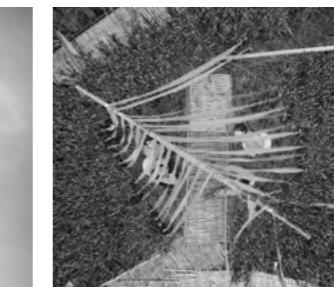
Survey of the Spatial Utilization of Residential Commercial Shops
Tutor: Prof. Wang Fangji
Partner: Chen Li, Feng Tian



Efficiency Fluctuation of Photovoltaic Equipment Influenced by Dust Fall
Tutor: Prof. Chen Juan
Partner: Chen Li, Lu Haofei, Zhu Yu, Zhang Wanlin, Zhou Yuxi



Experimental Installation: Not Door
Tutor: Prof. Wang Kai
Partner: Lu Yinin, Wang Zhaoyi, Zhang Wanlin



Maze in the Field: Traditional Fiesta after Harvest in Chongmin Island
Tutor: Prof. Dong Nannan
Partner: Gao Yuchen, Zhou Yuxi