

ARCH421 DESIGN STUDIO V

건축설계 5 / 4학년 1학기

Studio Introduction

Studios & Instructors

Followings are this year's studios and their topics.

Studio 1

Exploring Alternatives
of Urban Housing

Gunwon Lee / 이건원
Kyung Ho Won / 원경호



Studio 2

Refresh & Restart!

Jayoung Kim / 김자영
Taek Hong / 홍택



Studio 3

Urban complex &
density

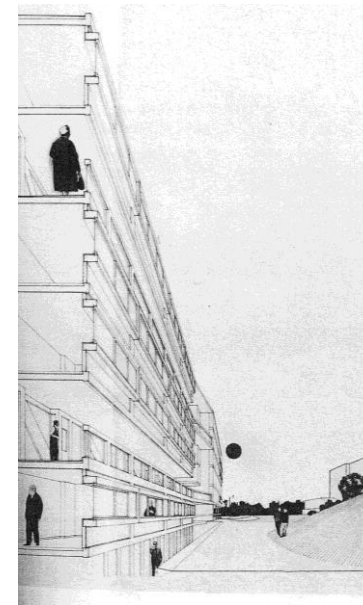
Hosoub Shin / 신호섭



Studio 4

Social Housing
Here & Now

Jeeseon Lim / 임지선



Studio 5

a-ppart-ment

Sangwook Park / 박상욱



Studio 1

Exploring Alternatives of Urban Housing

Instructors

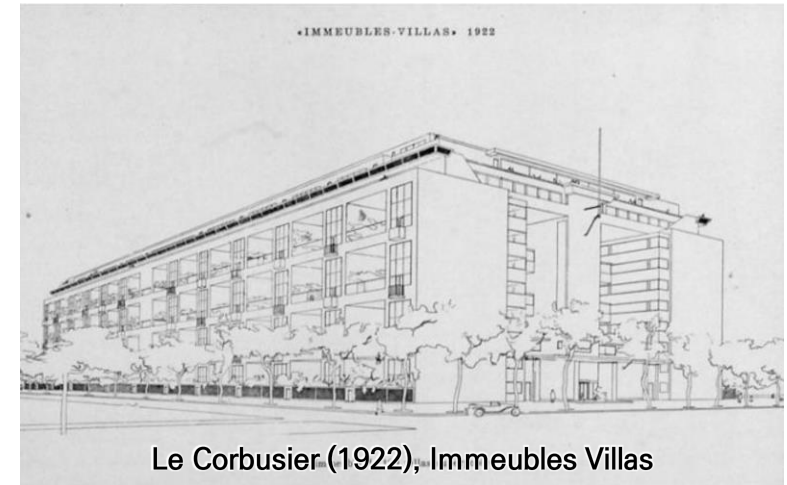
Gunwon Lee (이건원) / Kyung Ho Won (원경호)

Studio 1 Course Introduction

Exploring Alternatives of Urban Housing

Course Outlines & Key Concepts

- **Course Outline:** This course is aimed to think about and explore urban living through low-rise and high-density housing. We want to explore what it means to live in the city and propose appropriate and challenging models for urban residential life and appropriate urban residential models to capture it.
- **강의 개요:** 본 설계스튜디오는 저층 고밀 주거지를 대상으로 도시 주거에 대한 고민과 모색을 하고자 한다. 도시에서 살아가는 것은 무엇이며, 도시 주거 생활과 이를 담아내기 위한 적절한 도시 주거 모델에 대한 탐색과 적절하고 도전적인 모델 제안을 진행하고자 한다.
- **Residential in South Korea :** Residential development in South Korea is characterized by two main types of housing: low-rise and high-density housing centered on multi-Household and multi-unit houses from the 1960s to the 1980s, and high-rise and high-density housing centered on apartments from the 1980s to the present. The first type of residential area is characterized by low-quality construction and outdated or undersupplied infrastructure, while the second type is perceived as a real estate investment and life goal, mainly due to its high price. As such, urban housing in Korea is polarized. Sustainable and alternative housing models other than apartments are needed for urban housing in Korea.
- **한국의 주거지:** 한국의 주거지는 1960~80년대의 다가구, 다세대 주택을 중심으로 구성된 저층 고밀 주거지와 1980년대 이후 현재까지의 아파트를 중심으로 한 고층 고밀 주거지로 주로 개발되어 있다. 전자는 저품질의 건축과 노후 또는 미공급된 인프라로 인하여 노후된 주거지의 표상으로 자리하고 있으며, 후자는 높은 가격을 중심으로 부동산 투자의 대상이자 삶의 목표로 인식되고 있다. 이처럼 우리나라에서의 도시 주거는 양극화되어 있다. 우리 도시 주거를 위해 아파트 이외의 지속가능하고 대안적인 주거 모델이 필요한 상황이다.

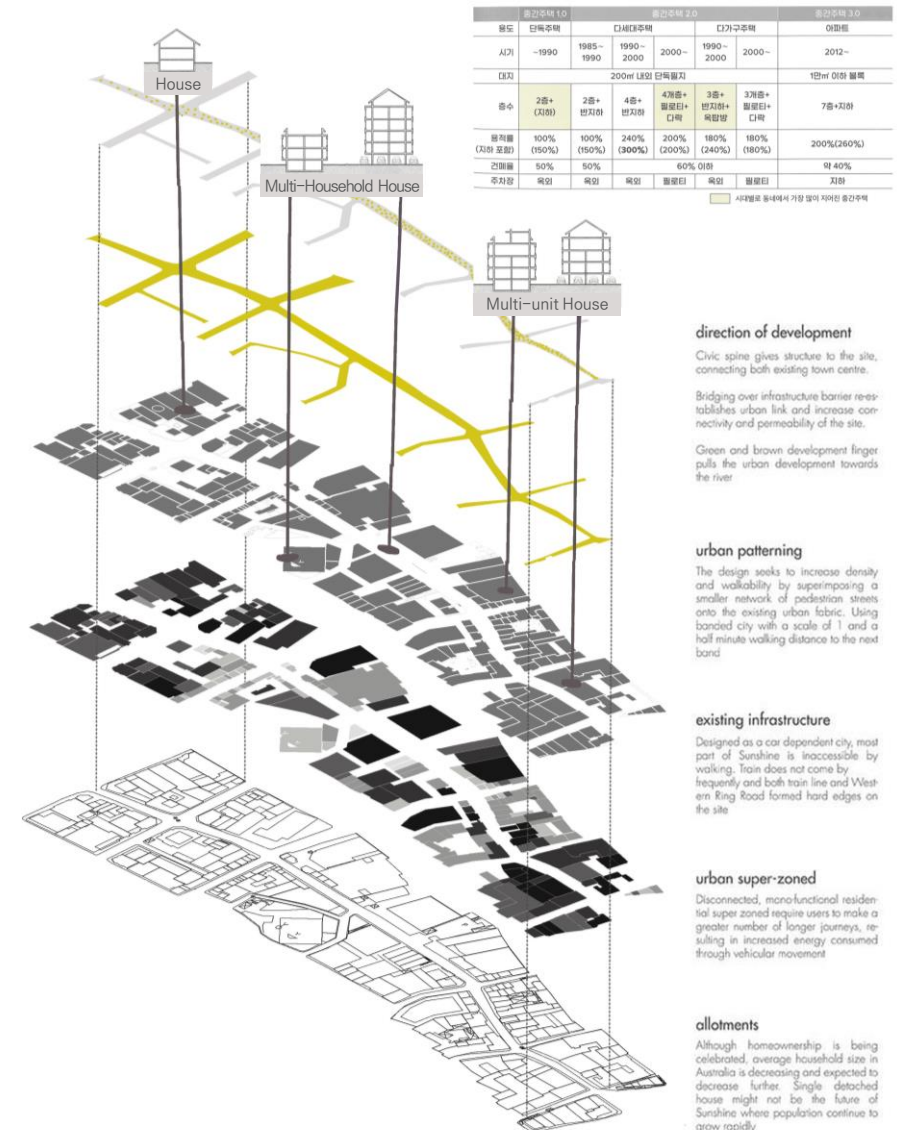


Studio 1 Course Introduction

Exploring Alternatives of Urban Housing

Course Objectives

- Objective of the Course:** In this studio, It will be conducted during this semester on a low-rise and high-density residential neighborhood in an area with development pressures in order to explore urban housing. These neighborhoods are unique in their mix of aging, multi-family, multi-unit housing, lack of infrastructure, and dilapidated alley markets, but at the same time have the characteristics of typical aging low-rise neighborhoods in Korea. This study aims to develop an alternative urban residential model for the target area, and to conduct a survey, analysis, and understanding of the city and residential areas. Based on this, we aim to propose a sustainable urban residential improvement plan by applying the developed residential model to the target area.
- 강의 목표:** 본 스튜디오에서는 도시 주거에 대한 탐색과 모색을 위해 개발 압력이 존재하는 역세권 내 저층 고밀 주거지를 대상으로 한 학기 동안 수업을 진행하고자 한다. 이 대상지는 노후된 다가구, 다세대 주택이 주를 이루며, 기반시설이 부족하며, 노후된 골목 시장이 혼재되어 있는 독특하면서도 우리나라의 일반적인 노후 저층 주거지의 특징을 동시에 가지고 있다. 이를 대상으로 대안적 도시 주거 모델을 개발하고, 도시 및 주거지에 대한 조사분석 및 이해를 진행하고자 한다. 이를 바탕으로 대상지에 개발된 주거 모델을 적용함으로써 지속가능한 도시 주거지 개선안을 제시하고자 한다.



Studio 1 Overview of the Site

History of the Site

- The target site is approximately 94,521 m² located in the area of 'Dolgoji Market' in Seokgwan-dong, Seongbuk-gu, Seoul. It is an old low-rise residential area with more than 90% of houses built more than 30 years ago on a gently flat land.
- 대상지는 서울특별시 성북구 석관동 '돌곶이시장' 일대에 소재한 약 94,521 m² 규모의 대지로, 전체적으로 완만한 평탄지에 준공 30년 이상 된 주택이 90% 이상인 노후저층주거지이다.
- Since ancient times, the eastern stem of Cheonjang Mountain looked as if it had been made of layers of stones, so the name of the village was 'Dolgoji Village', which was written in Chinese characters and became the same name as 'Seokgwan'.
- 예로부터 천장산의 동쪽 줄기가 돌을 겹겹이 꿰어 놓은 듯 하다고 하여 동네 이름을 '돌곶이 마을'이라 하였고 이를 한자로 표기하여 '석관'이라는 동명이 되었다.
- Most of the buildings in Seokgwan-dong are mid-range houses, but they are of different ages, shapes, sizes, and floor plans. This diversity leads to the diversity of the neighborhood, which is a mix of spaces that respond to different needs. Whether it's a single building or an entire neighborhood filled with mixed-use spaces, the neighborhood has the ability to respond to changes in the urban environment.
- 석관동에 지어진 건축물은 대부분 중간주택이지만 지어진 시기, 형태, 규모, 평면이 모두 다르다. 이러한 다양성은 저마다의 수요에 대응하며 생활에 필요한 여러 용도의 공간이 함께 어우러지는 동네의 다양성으로 이어진다. 건물 하나에 다양한 용도가 섞이기도 하고 동네 전체가 여러 용도의 공간으로 채워 지기도 하며 도시환경 변화에 대응할 수 있는 능력을 갖추고 있다.

Exploring Alternatives of Urban Housing



Between Exit 7,8 of Dolgoji station, "The Dolgoji Monument"



The Diversity of Seokgwan-dong

Studio 1 Overview of the Site

Exploring Alternatives of Urban Housing

Main Issues of the Site

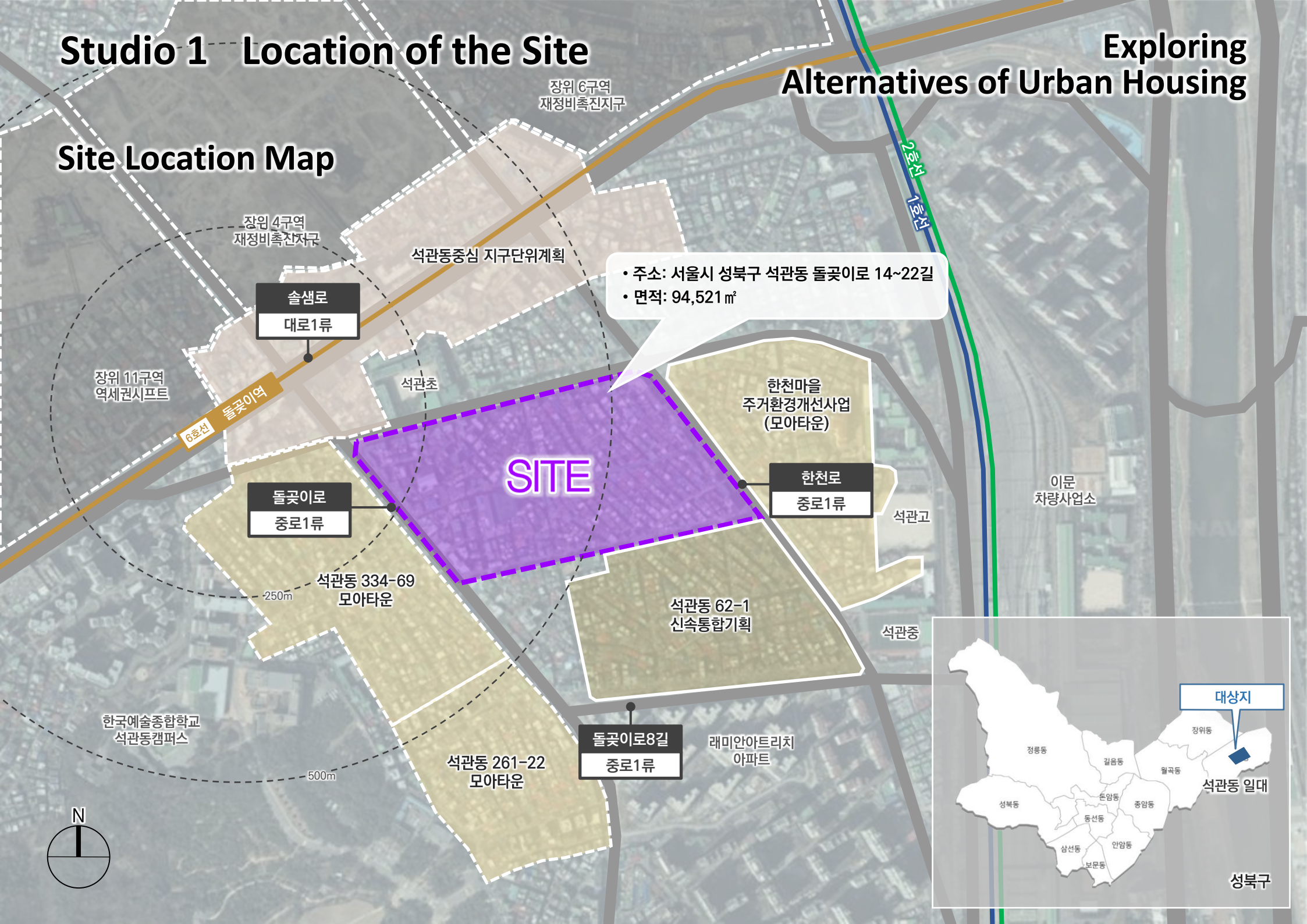
- The current site includes 'Dolgoji Market', a traditional market whose name was changed from 'Seokgwan Golden Market' in 2017, and 'Seokgwan Market', a small market opened in 1969. There is a dense residential area around 'Dolgoji Market', and mixed residential and commercial area is located around the 'Seokgwan Market'.
- 현재 대상지에는 2017년 '석관황금시장'에서 명칭이 바뀐 전통시장인 '돌곶이시장'과 1969년에 문을 연 소형 시장인 '석관시장'이 있으며, '돌곶이시장' 주변에는 주택밀집지역이, '석관시장' 주변에는 주택상가 혼재 지역이 위치하고있다.
- In the past, when Jangwi-dong, located nearby, was designated as a New-town Project, Seokgwan-dong was maintained in an old state without a clear urban development and urban renewal plan despite having similar conditions.
- 과거 가깝게 위치한 장위동이 뉴타운으로 지정될 때, 비슷한 여건을 가졌음에도 석관동은 뚜렷한 개발/정비 계획 없이 노후된 채 유지되어 왔다.
- Recently, three Moa Town projects have been selected in Seokgwan-dong, and rapid integration planning is scheduled, creating urban development and urban renewal atmosphere. However, there is no specific plan due to lack of consideration for local resources within the target site. Now, there is a need for a specific plan that takes into account the public(public city) of this site.
- 최근 석관동 내에서 모아타운 사업 3개소가 선정되고, 신속통합기획이 예정되는 등 개발/정비 분위기가 일어나고 있다. 하지만 대상지 내 지역자원에 대한 고려 부재로 구체적인 계획이 없는 실태다. 이제는 본 대상지에 공공성 및 공익성이 고려된 구체적인 계획이 필요한 실정이다.



Studio 1 Location of the Site

Exploring Alternatives of Urban Housing

Site Location Map



- 주소: 서울시 성북구 석관동 돌곶이로 14~22길
- 면적: 94,521 m²

SITE

솔샘로
대로1류

돌곶이로
중로1류

한천로
중로1류

돌곶이로8길
중로1류

석관동 261-22
모아타운

석관동 62-1
신속통합기획

석관동 334-69
모아타운

래미안아트리지
아파트

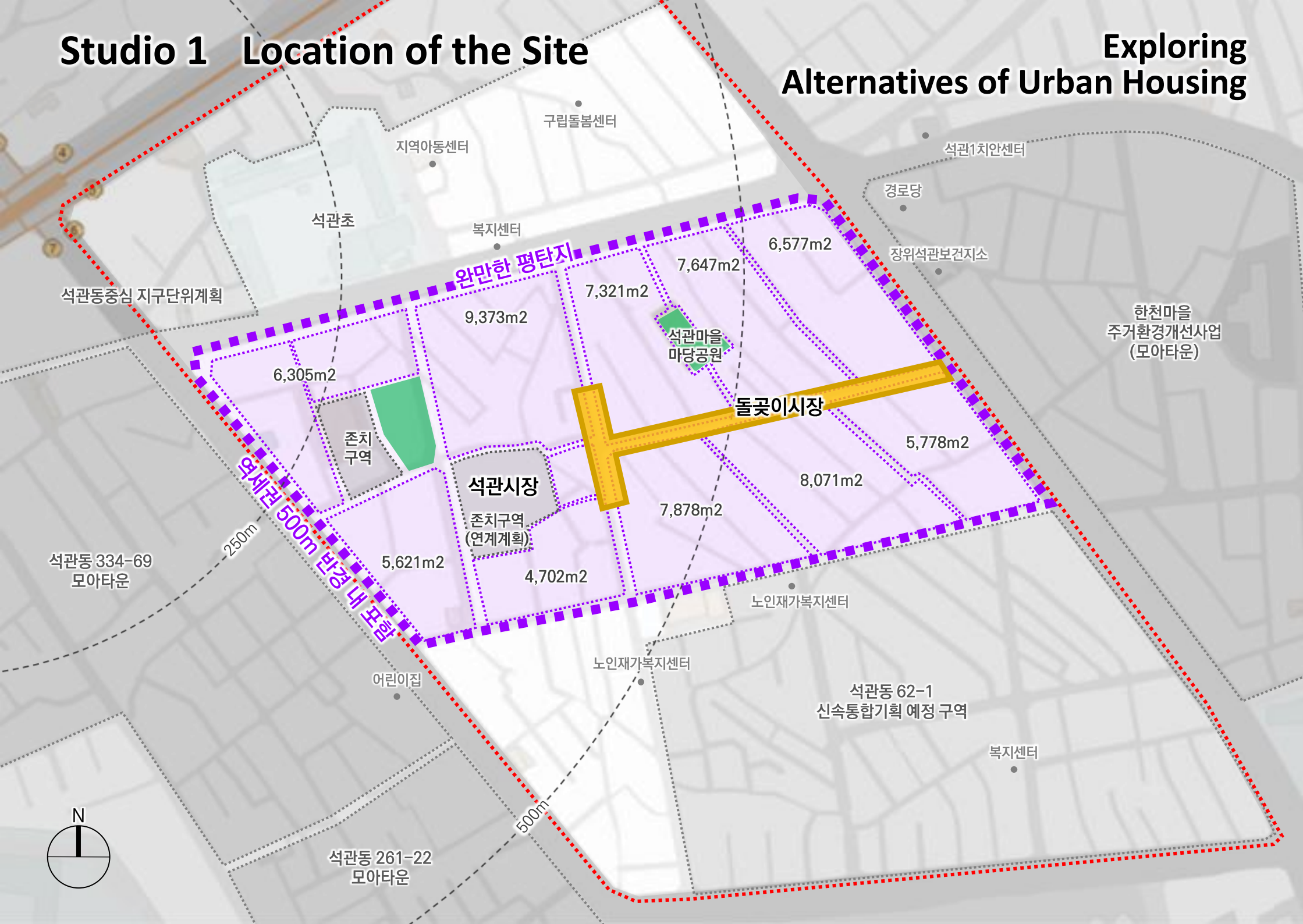
한국예술종합학교
석관동캠퍼스

이문
차량사업소

대상지

성북구

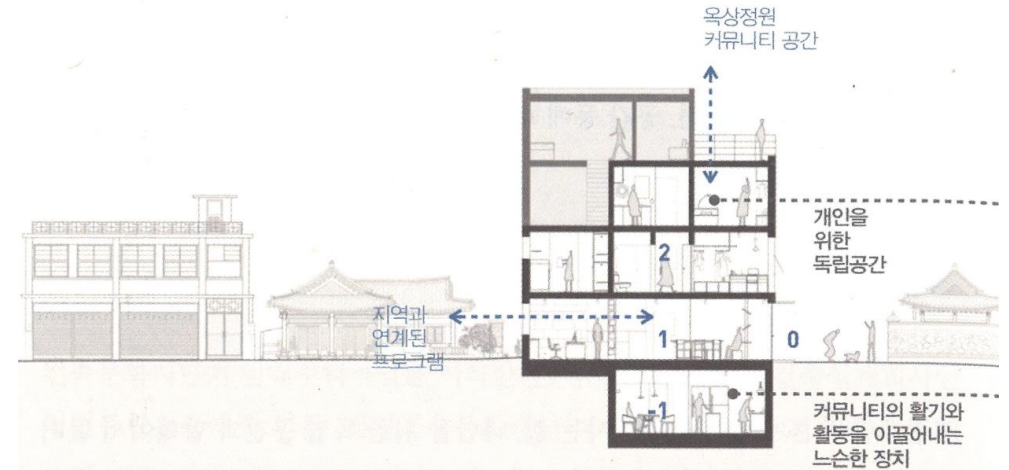
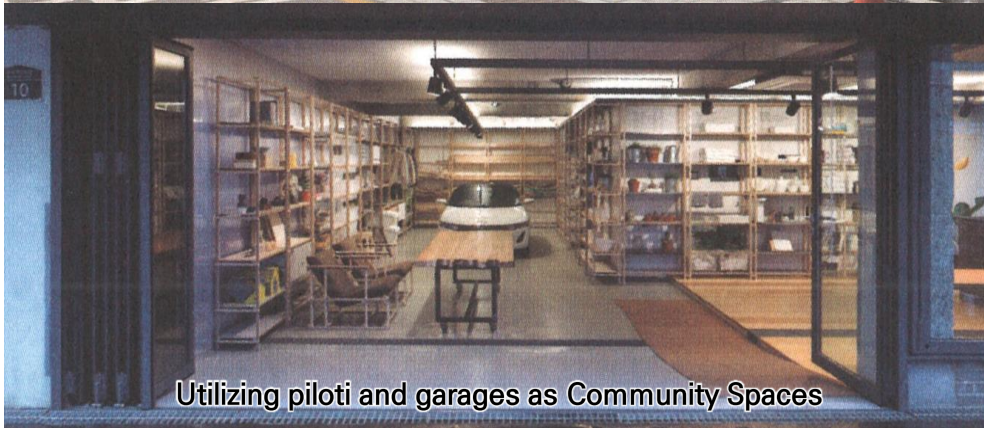
Exploring Alternatives of Urban Housing



Studio 1 Topic of the Studio

Exploring Alternatives of Urban Housing

Mixed-use, Middle Housing, Housing Regeneration

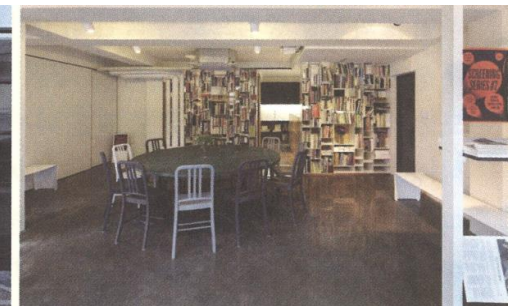


private room
roundabout
contact
shared kitchen

개인실
정림건축문화재단 사무실+라운지
서촌
키친+다이닝

2 PRIVATE SPACE
1 SEMI PUBLIC SPACE
0 PUBLIC SPACE
-1 SEMI PRIVATE SPACE

전용공간
매개공간
공공공간
공유공간



Tongin-dong, Jongno-gu, Seoul, "Tongindong House"

Studio 1 Topic of the Studio

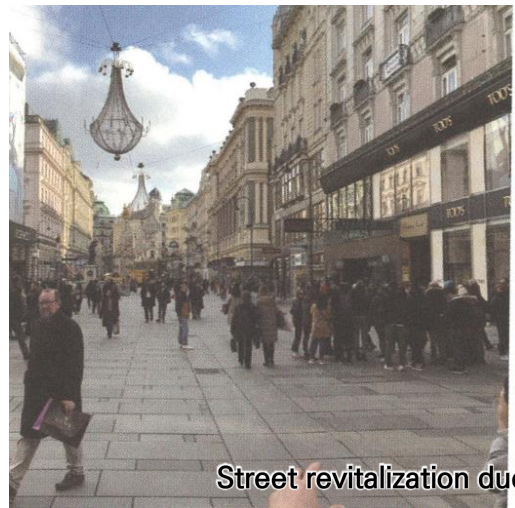
Exploring Alternatives of Urban Housing

Mixed-use, Middle Housing, Housing Regeneration

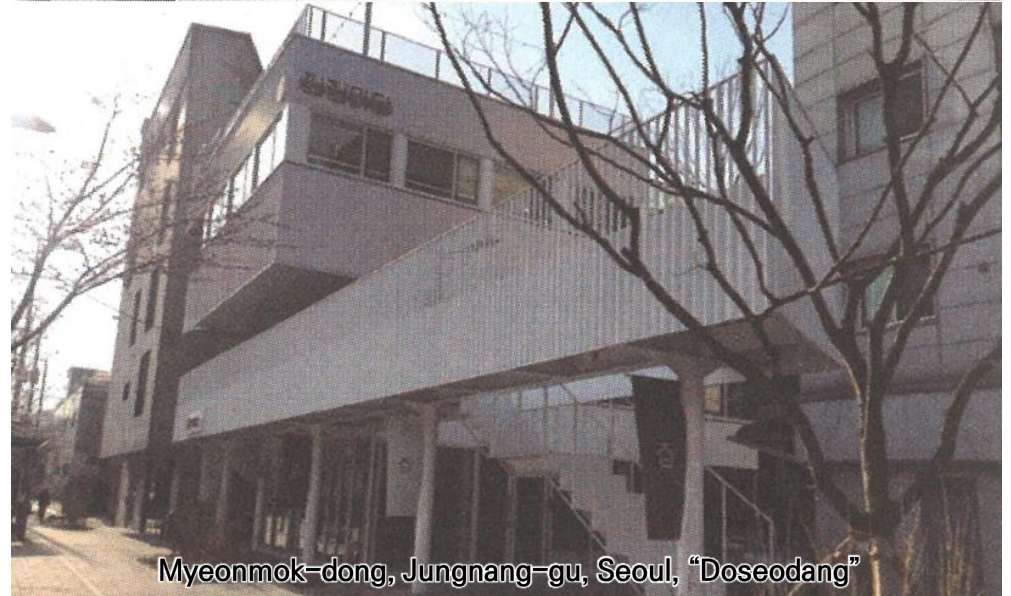
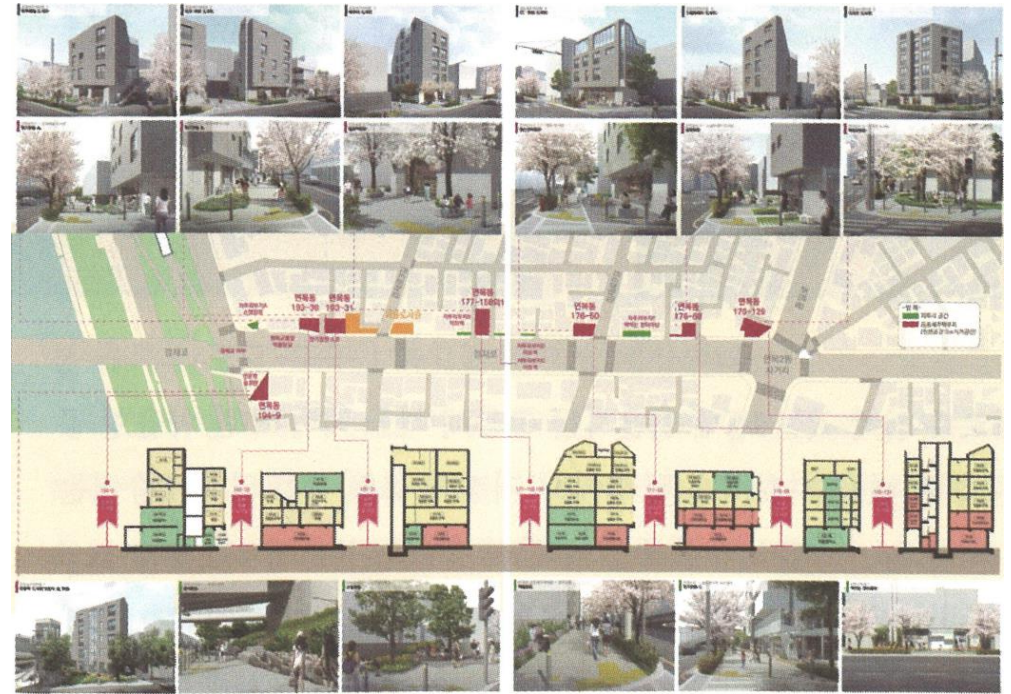
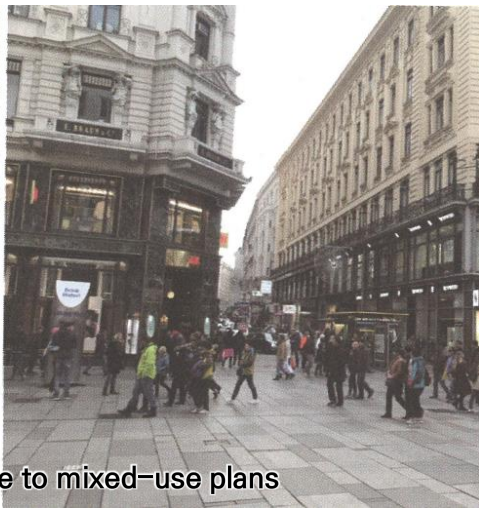


- ① 록펠러센터의 블록
- ② 바르셀로나의 블록
- ③ 포틀랜드의 블록

구글 항공사진에 작업



Street revitalization due to mixed-use plans



Myeonmok-dong, Jungnang-gu, Seoul, "Doseodang"

Studio 1 Instructor



Gunwon Lee / 이건원

Ph.D. of Urban planning and design
(Korea University)
Master of Architectural planning
(Korea University)

Associate Professor
(Korea University)
Associate Professor
(Hoseo University)
Lecturer and Assistant Professor
(Mokwon University)
SAC International, Ltd.

Exploring Alternatives of Urban Housing



Kyung Ho Won / 원경호

Master of Architecture
(Harvard University, GSD)
B.S. in Architecture
(University of Michigan)

Adjunct Professor
(Korea University)
Licensed Architect
(USA & Germany)
LEED AP
(USA)
Principal
(1+A Architects)

Studio 2

Refresh & Restart!

Instructors

Jayoung Kim (김자영) / Taek Hong (홍택)



성북구 석관동 :

돌곶이시장의 이야기속으로

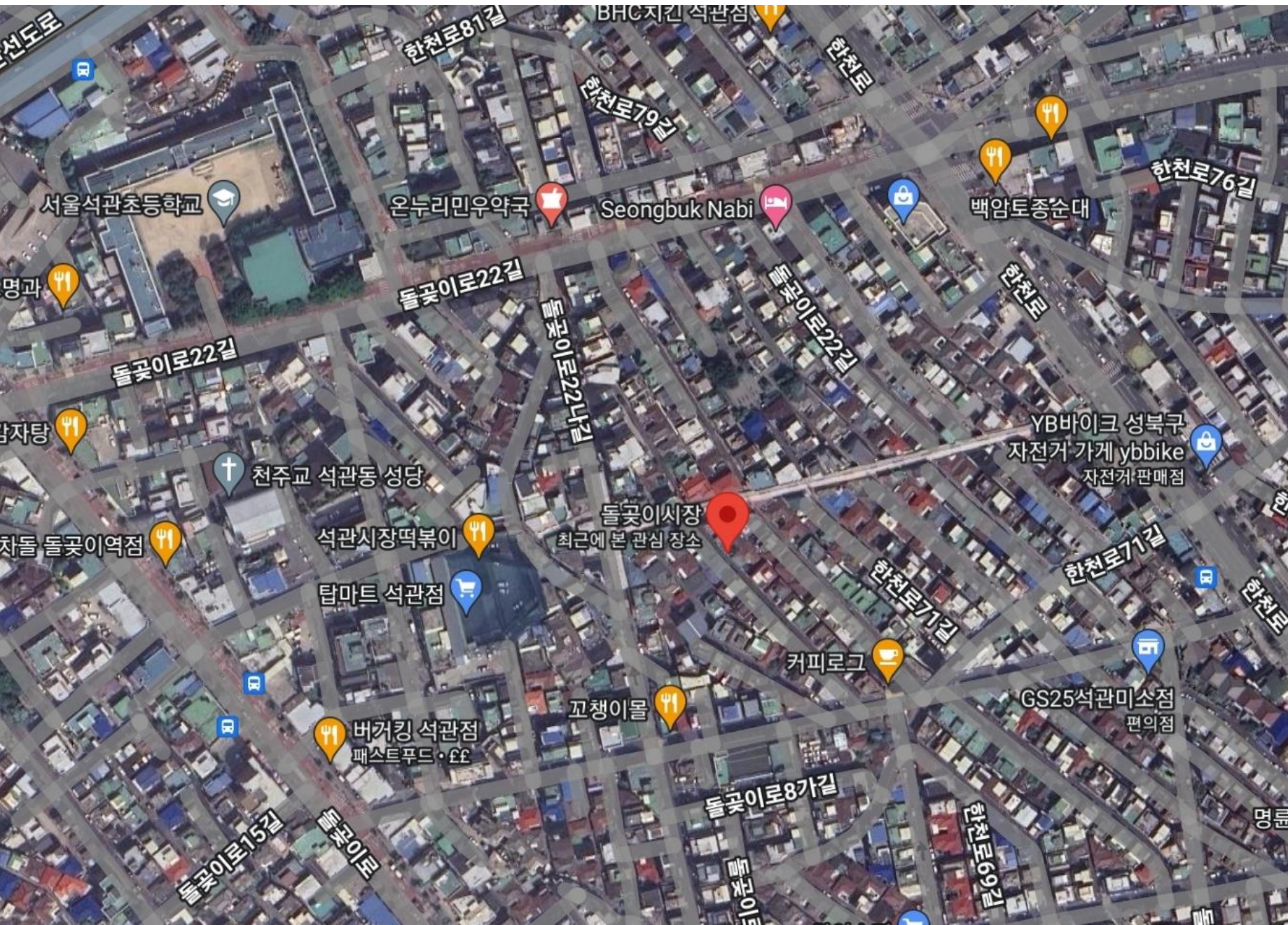
- 지역사회 이야기를 잘 듣자
- 대상지와 사용자의 이야기를 잘 듣자
- 새로운 이야기를 만들어, 지역사회가 Refresh & Restart 하는 건축적 해결안을 제안 하자

**Thinking about the local
community: How will we live
together**

Studio 3 Introduction

Refresh & Restart!

성북구 석관동 돌곶이 시장 인접 주거지역



Studio 3 Topic

Refresh & Restart!

How can we make our local environment more sustainable?



지역 사회와 그 주변에 있는 다양한
개인이 누구인지 조사할 것입니다.
더 좋고 **지속 가능**한 사회를 만들
기 위해 다양한 요구를 어떻게 해결하
여
**‘어떻게 함께 살아갈 수 있
는가’**가 주요 목표가 될 것입니다.

사용자에게
**안전하고
아름다운** 환
경을 제공함께
할 뿐만 아니라
환경에 부정적
인 영향사용자
에게 미치지
않는 건물을 설
계하는
책임도 맡겠
습니다.
'함께 산다'는
것은 인간 사이
뿐만 아니라
인간과 자연
사이에도 적용
됩니다.

Studio 3 Instructor

Refresh & Restart!



Jayoung Kim / 김자영

A.A. Dipl (Architectural Association)

네덜란드 건축사 (RA)

<https://archi.korea.ac.kr/archi/about/member.do#modal>



Taek Hong / 홍택

Master of Architecture (Japan)

한국 건축사 (KIRA)

www.systemlabgroup.com

Studio 3

Urban complex & density

Instructors

Hosoub Shin (신호섭)

Studio 3 Course Introduction

Urban complex & density

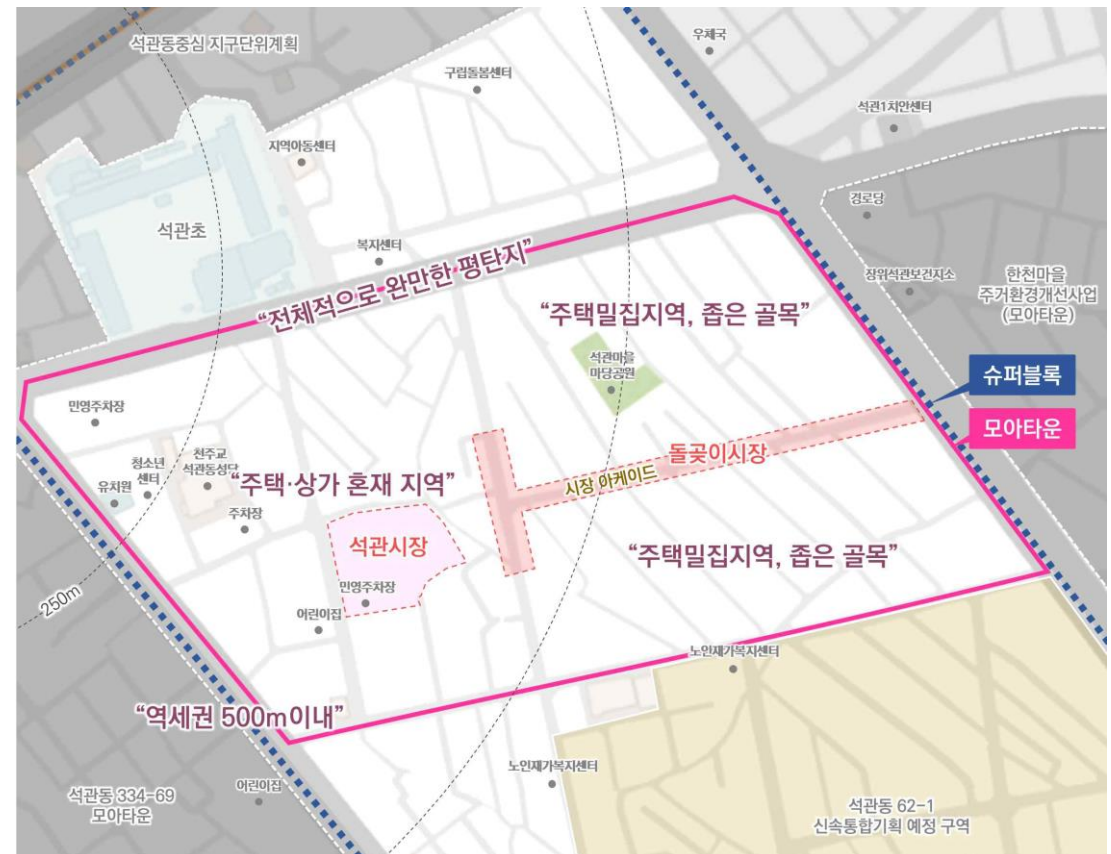
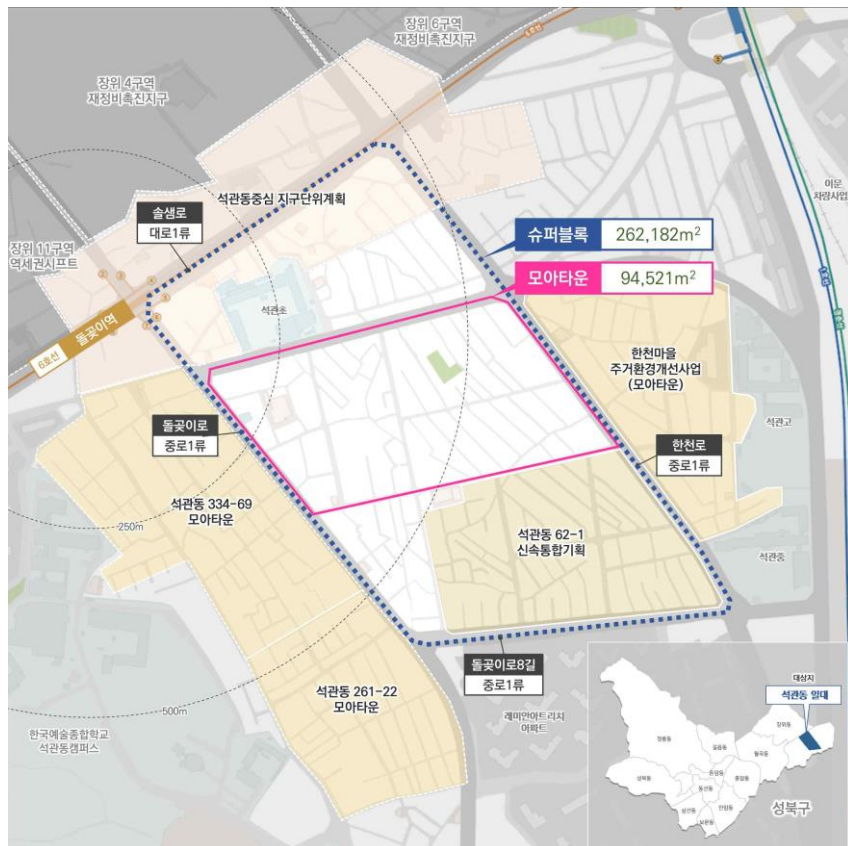
- **Course Outline:** This design studio analyzes and understands urban problems and context for architectural design for 4th grade students. It is intended to learn the overall process of urban planning and appropriate urban construction programs and alternatives. Urban design is important for its purpose and use. It is also true that it is difficult to grasp its substance because it has various shapes to fit. However, urban design is clearly rooted in architectural design. It is located in the planning and design stage of architectural design or immediately preceding it, and is constantly trying to come up with an alternative as a better urban environment
- **강의 개요:** 도시를 이해하고 분석하는데 있어서 그 복잡함과 밀도는 매우 유사한 상관관계를 가지게 된다. 4학년 학생들을 위한 도시 및 건축 디자인을 위한 스튜디오로서 현대 도시가 가지는 다양한 프로그램과 문제설정을 도시적 건축적 해법을 통해 최적의 솔루션을 하나의 프로젝트로 구현하는 것을 목표로 한다.



Hongkong Kowloon city

Studio 3 Overview of the Site

- The target site of our design studio is area of dolgokji market places, sugkwandong sungbuk-gu, Seoul, and is about 94,521m² in size. This area is MOA town District by metropolitan seoul city. It is designated as a special planning area, and some are under demolition. This area is very interesting urban complex condition. It is an area with a long city life history, However, it remained an area that was considered and declined due to opposition from residents, but a new atmosphere of urban area was formed by another possibility now. however, apart from this area, residential and commercial facilities or business facilities have already been developed in the surrounding area, and dolgokji Station on Line 6



Studio 3 Topic of the Studio

Urban complex & density

Seoul, mega city, urban density, complex program



"SEOUL" is contrasted by different quality of density. It means we have to find another point of view regarding urban composition and use new or advanced method by resolving density problem.

Contemporary mega city needs very complex urban program. We will analyse different layer of city and relationship between complex programs and real density.



"SEOUL" contrasting urban density (Photo by shinarchitects)

Studio 3 Instructor

Urban complex & density



Hosoub Shin / 신호섭

SHIN architects principal

www.shinarchitects.com

Studio 4

Social Housing

Here & Now

Instructors

Jeeseon Lim (임지선)

Studio 4 Introduction

Social Housing, Here and Now

How can we define the right type of housing in this city today?

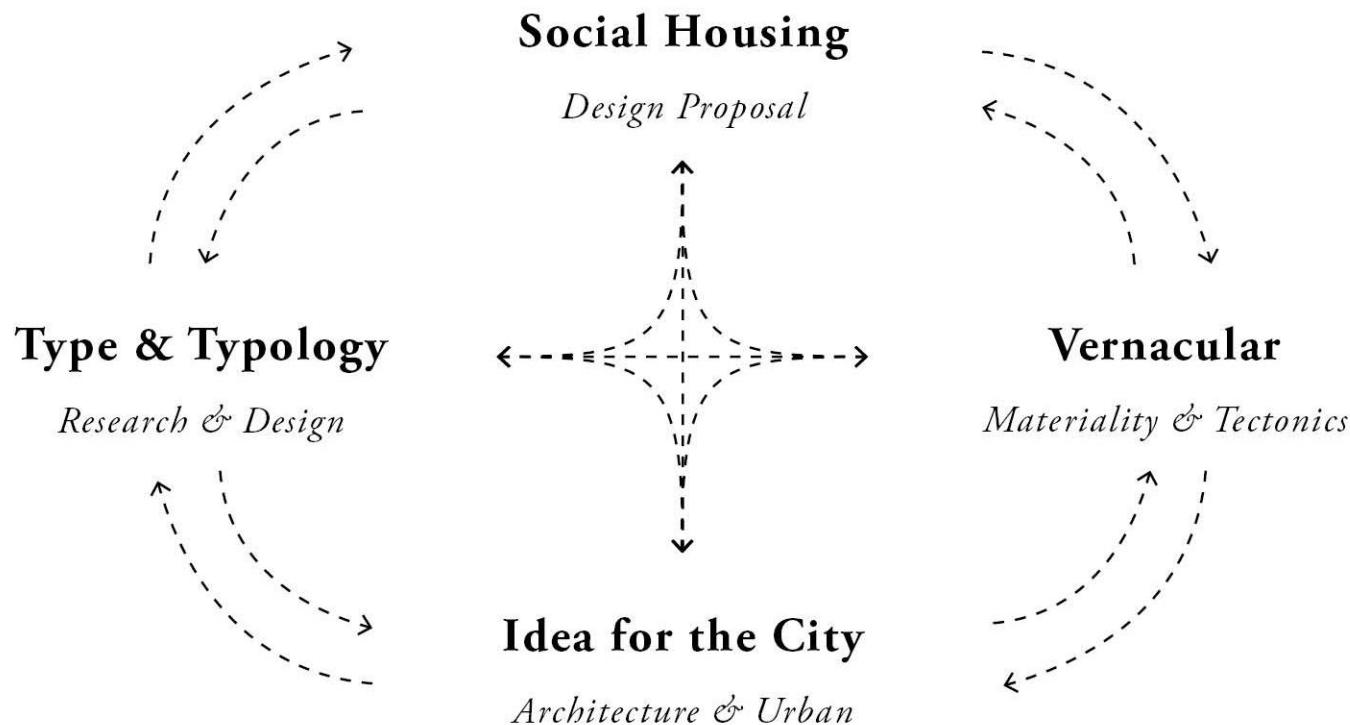
The rise of single-person households, the emergence of alternative families, social polarization, a sharp decline in the birth rate, the climate crisis and etc. - there are quite a few buzzwords surrounding Korea today. How should Social Housing respond in this context? The studio aims to explore architectural strategies that address these issues on multiple levels.

Students are encouraged to enhance the functions of Social Housing itself or to integrate with other programs based on urban, socio-cultural and environmental issues related to their project briefs.



Themes

The design of Social Housing will be structured around 2 themes, which are architectural 'Type & Typology' as a research / design tool and the concept of 'Vernacular' for materialization. The individual project will be concluded with his/her 'Idea for the City'.



Type & Typology

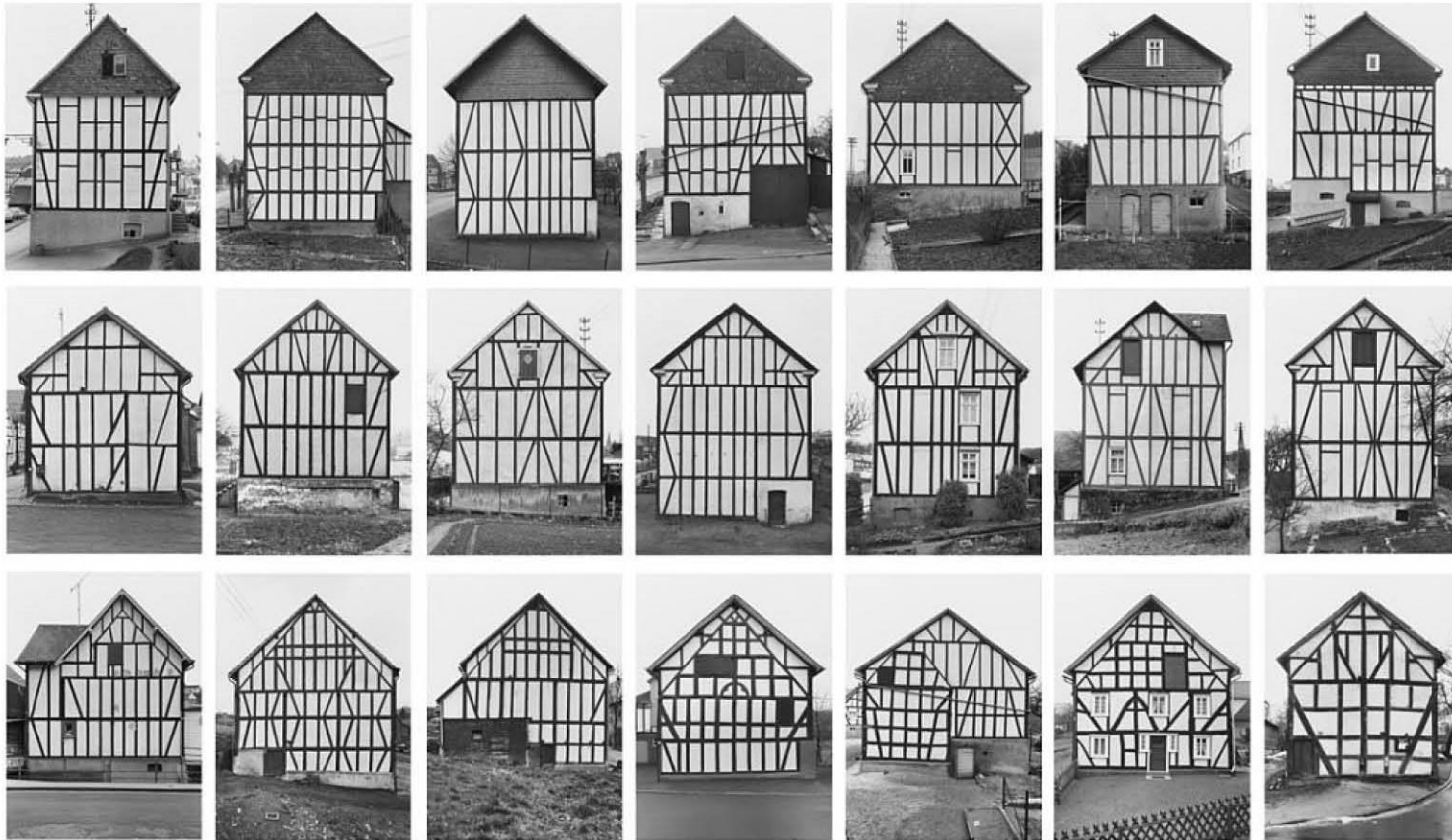
“To raise the question of typology in architecture
is
to raise a question of the nature of the architectural work itself.’

“What then is type?
It can most simply be defined as
a concept which describes a group of objects characterized by the same formal structure.
It is neither a spatial diagram nor the average of a serial list.
It is fundamentally based on
the possibility of grouping objects by certain inherent structural similarities”

Rafael Moneo “On Typology” in *Oppositions* 1978

Studio 4 Type & Typology

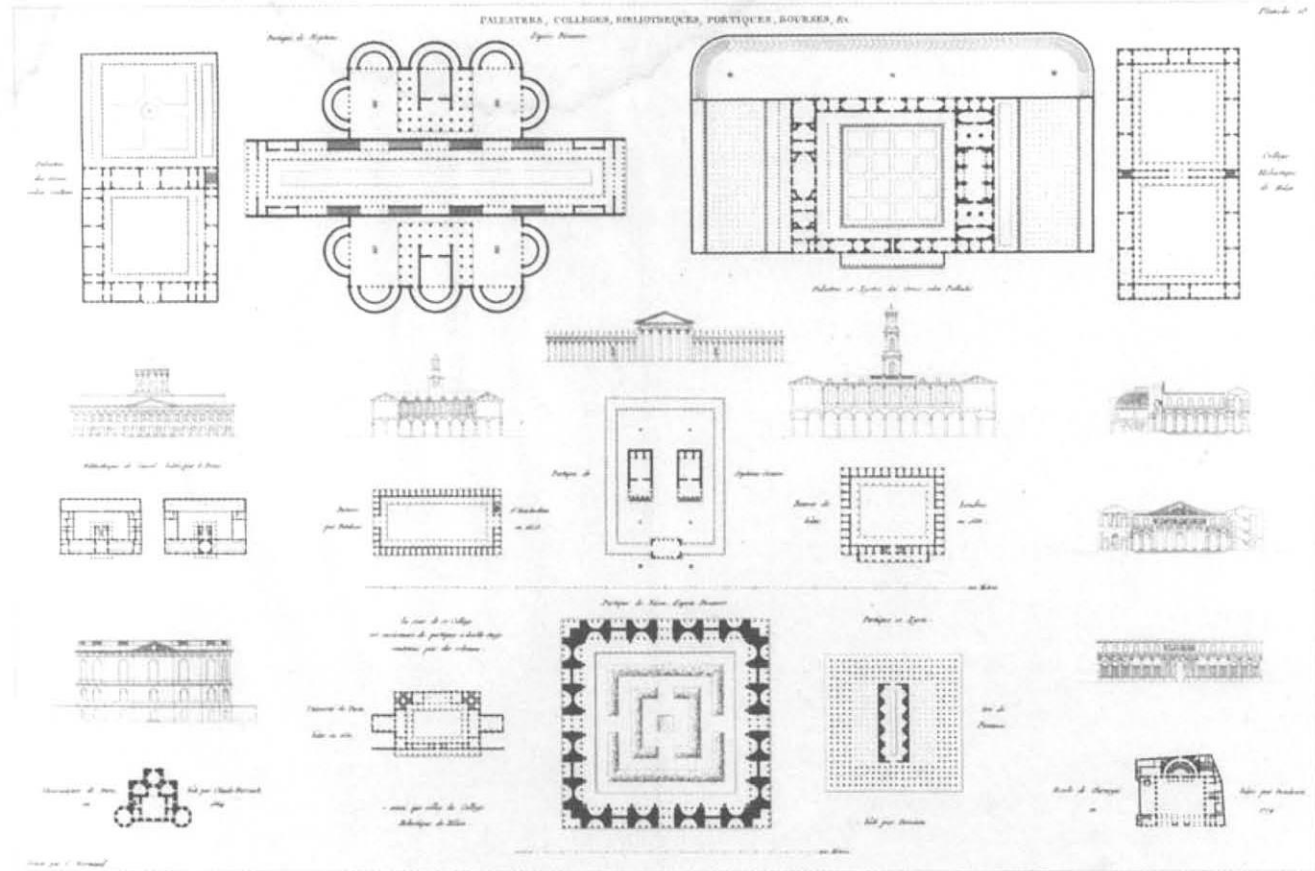
Collectiveness



Framework Houses of the Sieg region of Germany
Bernd & Hilla Becher 1959-1973

Studio 4 Type & Typology

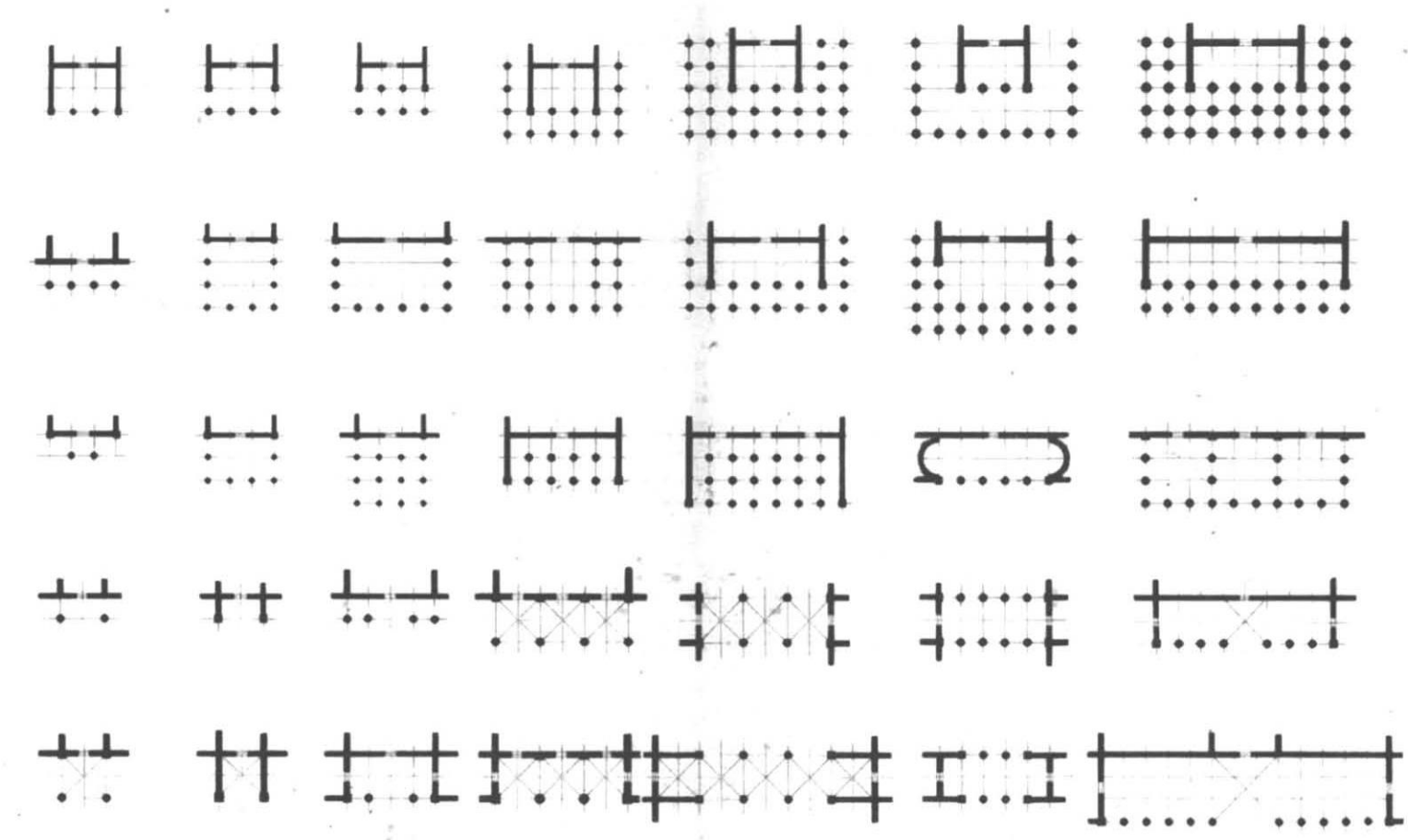
Precedents & Classification



Gymnasia, Colleges, Libraries, Porticos, Commodity Exchanges, and so on
From Durand, *Recueil et parallèle des édifices de tout genre* 1800/1801

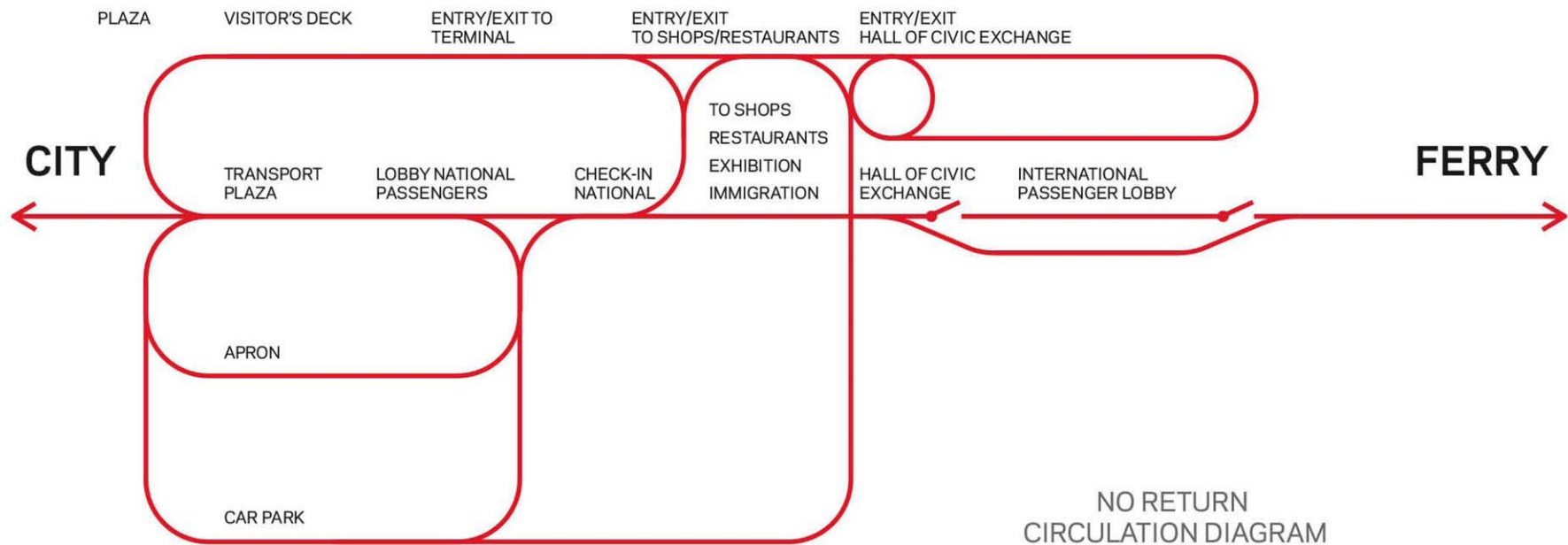
Studio 4 Type & Typology

Abstraction



Plans for Porches, Jean-Nicolas-Louis Durand 1809

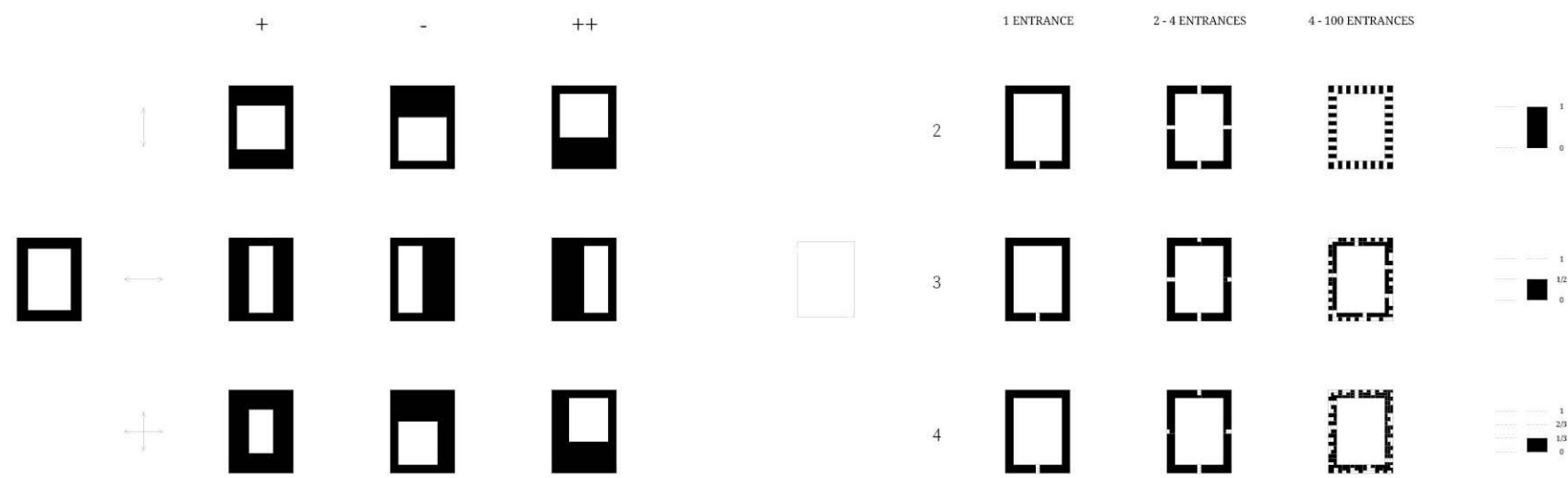
(Abstract) Diagrams



No Return Circulation Diagram
Yokohama International Port Terminal, Foreign Office Architects

Studio 4 Type & Typology

(Abstract) Diagrams



‘Thickening the Wall’ by Jiyeol Park
2023-2 ARCH422-04

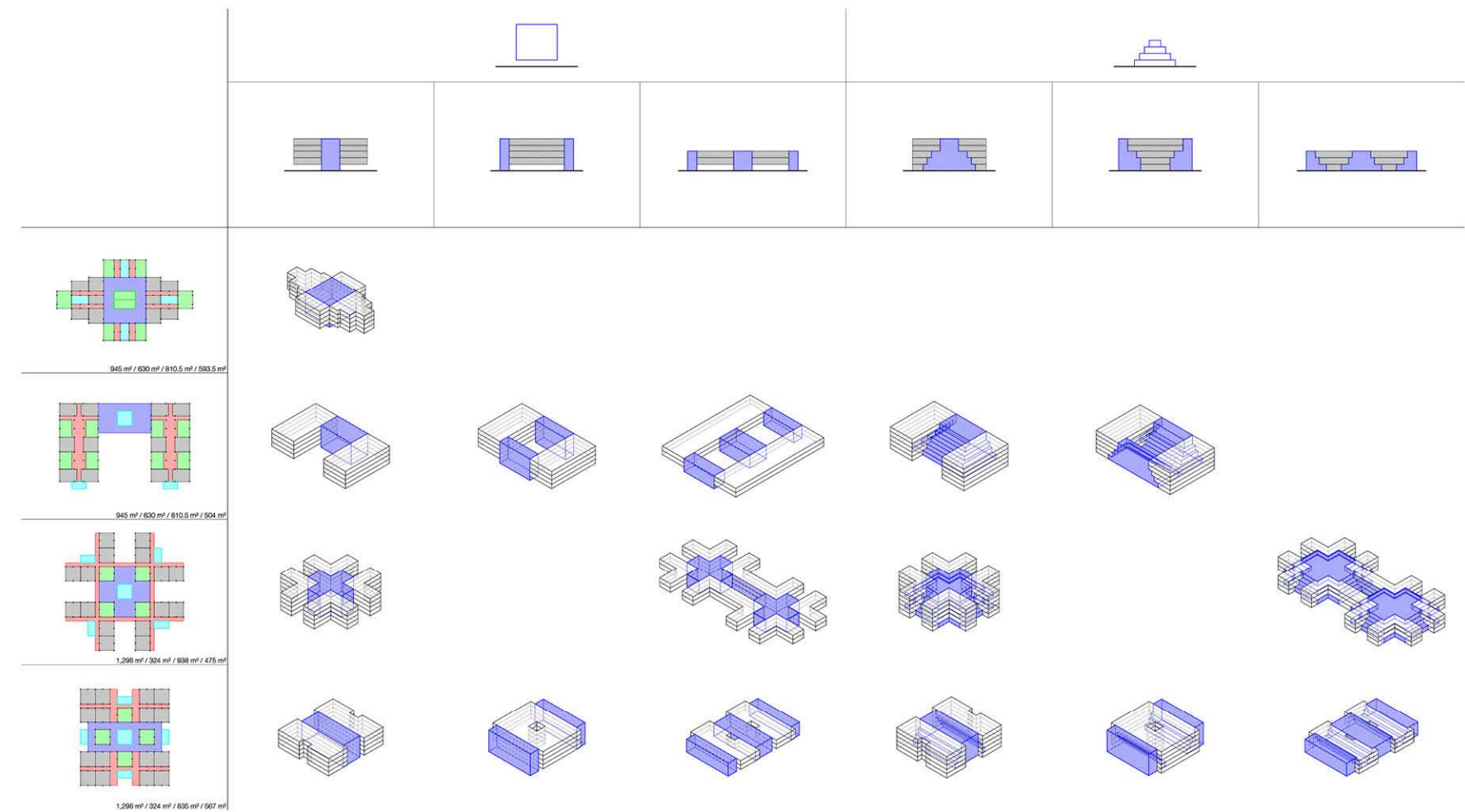
Studio 4 Type & Typology

(Abstract) Diagrams



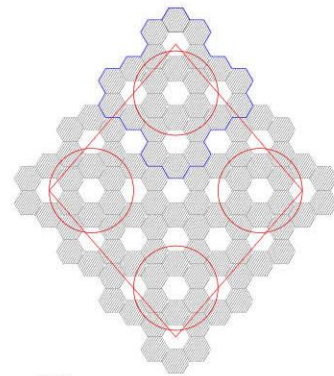
'Orae Elementary School' by Seung Young Lee
2023-2 ARCH422-04

Typological Formation



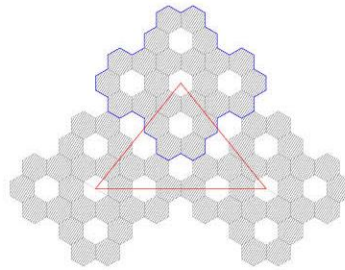
‘Horizontal Ladder’ by Taeyoon Kim
2023-2 ARCH422-04

Typological Formation



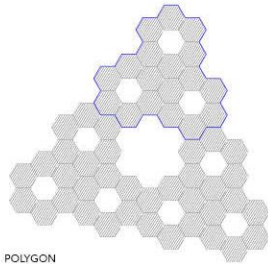
RADIAL

- Seems like an organized and rigid grid, but might end up being too repetitive.
- Could be a good starting grid, to then add/subtract small units.

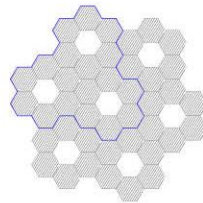


POLYGON

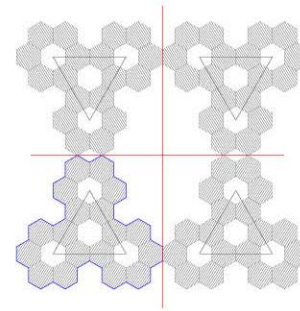
- Established grid that allows more flexibility between rooms.
- A few common courtyards can be formed as transition spaces from one grade to another.



POLYGON

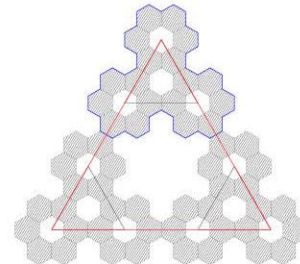


RADIAL

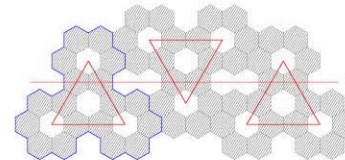


MIRROR

- Big outdoor space in the middle as a common area for all grades, while they still have their own outdoor areas.
- This big outdoor space could be used to hold different activities, such as mini-gardens, outdoor learning areas, etc.
- It might loose the radial feeling of the project.
- There are small voids.



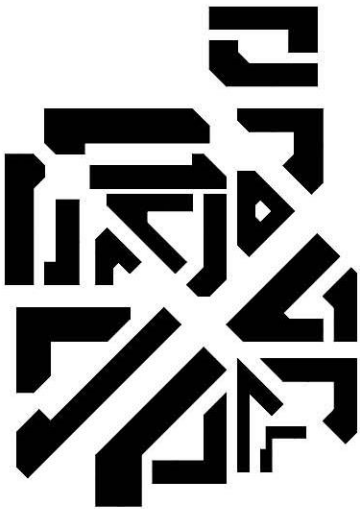
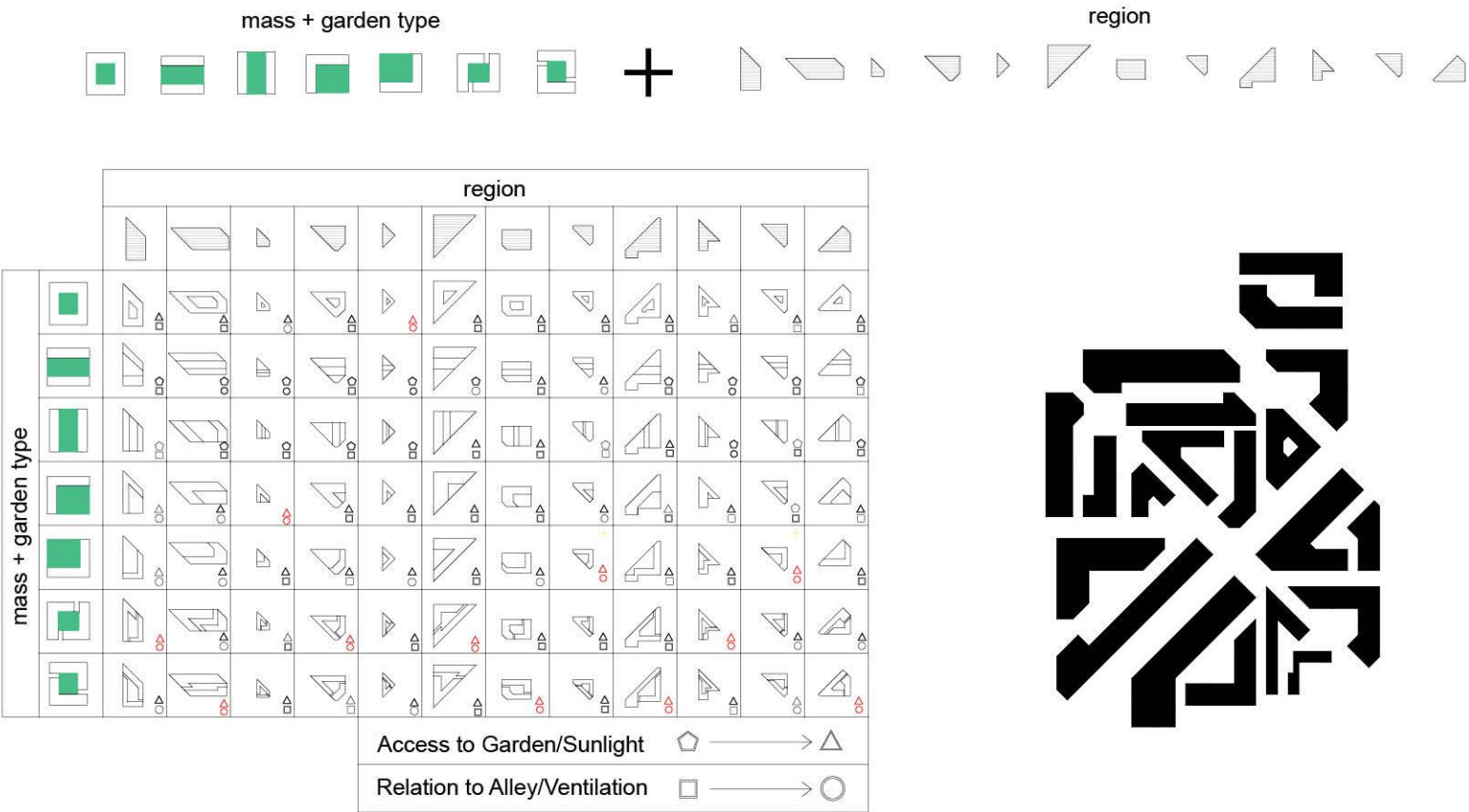
POLYGON



LINEAR - INVERTED

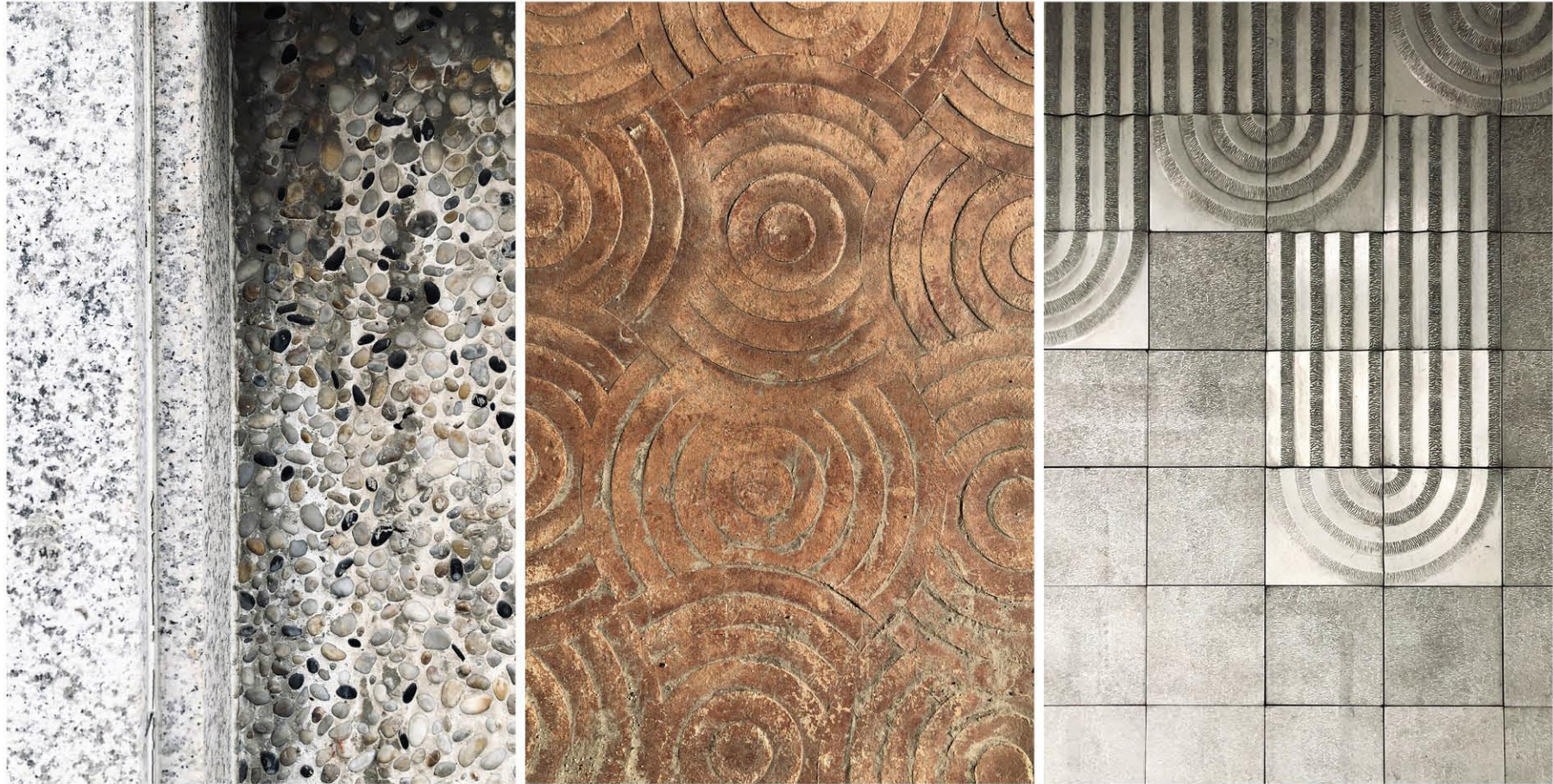
'A Little Village' by Ana Gutierrez
2023-2 ARCH422-04

Typological Formation



'Nak' by Jihyeon Lee
2023-2 ARCH422-04

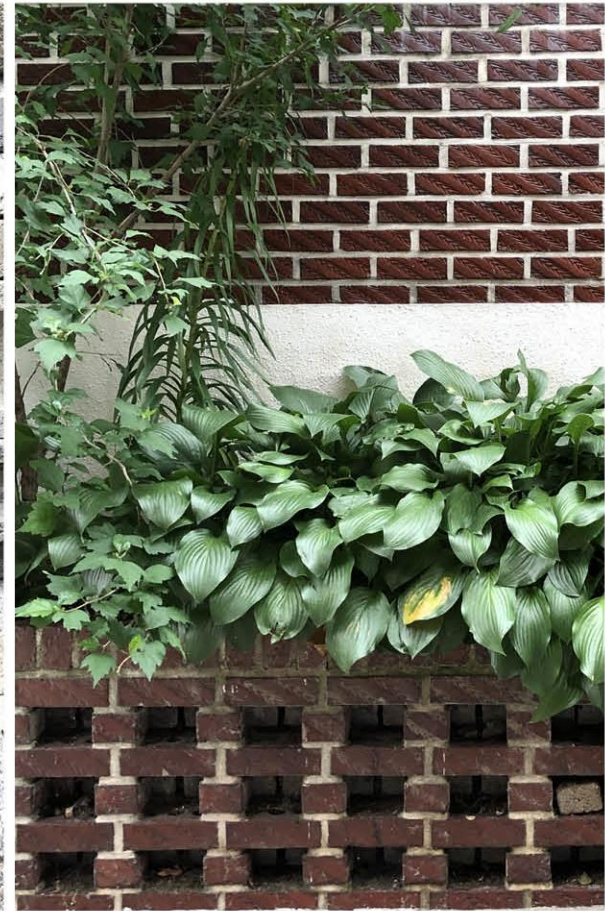
The Vernacular : Materiality



Seongbukgu, Seoul

Studio 4 The Vernacular

The Vernacular : Tectonics



Seongbukgu, Seoul

The Vernacular : Conditions & Details

자연을 두려워하는 자세

안과 밖의 소통

현관과 바닥의 전환

안식의 형태

공간의 다의성

수직과 수평

모서리와 테두리-다다미, 맹장지, 장지문

모서리와 테두리-소재의 경계, 기술의 경계

물과 온천-화산열도의 축복

페터 चुम्टोर्의 발스온천

있는 그대로의 온천

빛나는 수면

습원과 강

만과 수평선

살아 있는 초목을 놓다

돌을 두다

청소

Fear of Nature

Interconnection between Inside & Outside

Transition from main entrance to internal floor

Ways of Rest

Ambiguity of Space

Vertical and Horizontal

Corners and Borders

Water and Hotspring

Shining Water

Marsh and River

Bay and Horizon

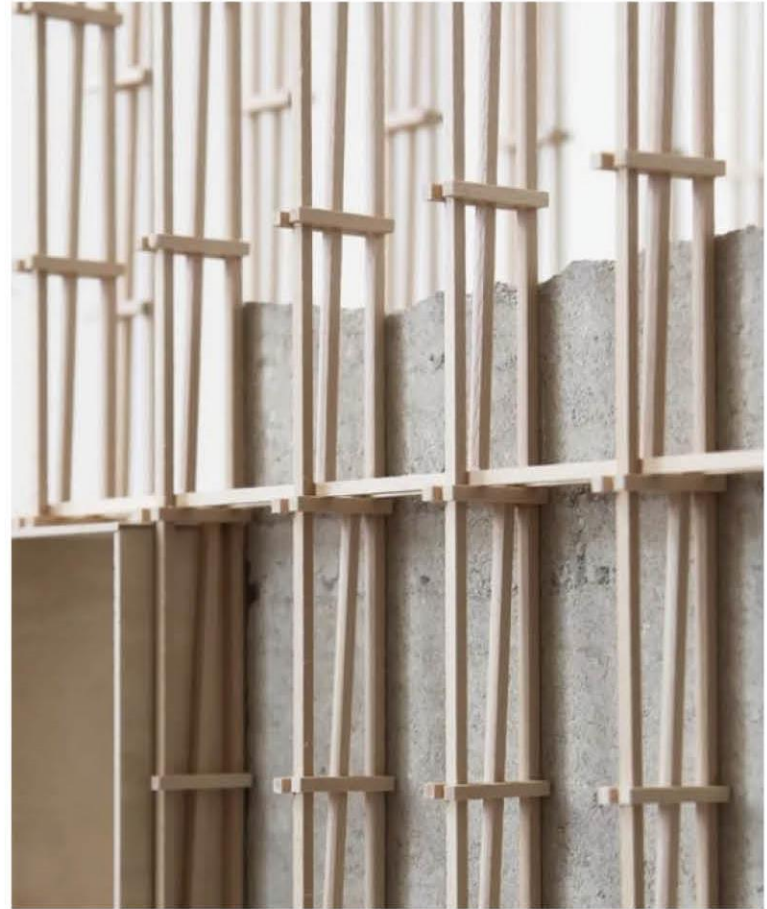
Place Live Vegetation

Place Stones

Cleaning

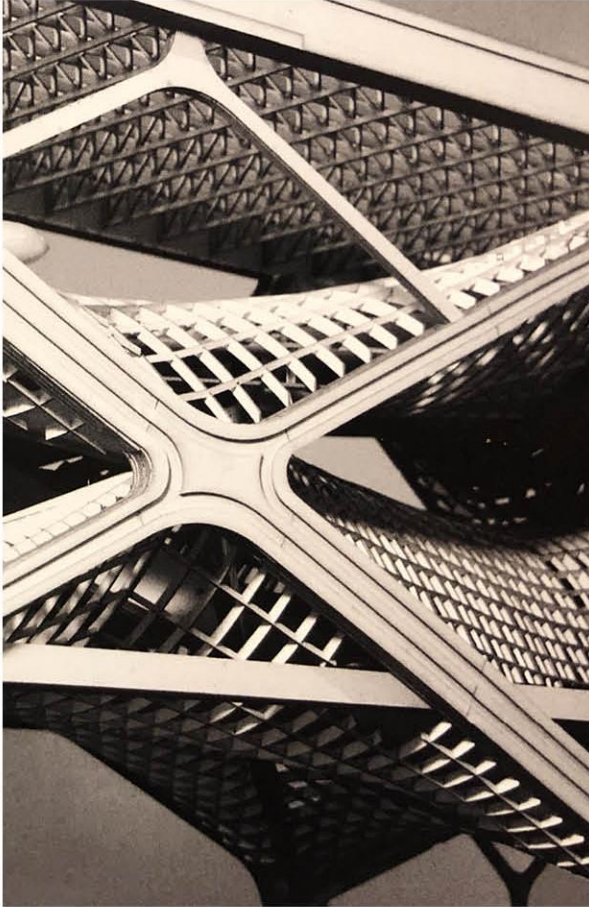
Extract from High Resolution Tour by Hara Kenya

Materialization : Fragment Models



Model Iterations & Process models as part of research on Danish building culture
Thi & Dencker Arkitekter

Materialization : Fragment Models



Martin Jameson, Fragment Model,
Project Runway, Thames Estuary, UK
Diploma Unit 6, Architectural Association, London 2008



Jeesoon Lim, Fragment Model,
The Capital Airport, Seoul, Korea
Diploma Unit 6, Architectural Association, London 2008



Model for The Tote, Mumbai, India 2007-2009
'Working In Series' by Serie Architects

Materialization : Fragment Models



Gardening School by Sekwang Kim
2023-2 ARCH422-04



'Nak' by Jihyeon Lee
2023-2 ARCH422-04

Materialization : Fragment Models



'Inbetween, Borderless School' by Iana Kim
2023-2 ARCH422-04



'Horizontal Ladder' by Taeyoon Kim
2023-2 ARCH422-04

Studio 4 The Vernacular

Materialization : Fragment Models



‘Orae Elementary School’ by Seung Young Lee
2023-2 ARCH422-04



‘Thickening the Wall’ by Jiyeol Park
2023-2 ARCH422-04

Idea for the City : Project Your Idea of the City



Max von Werz, Urban Plan, Open Source Fabric, Zorrozaurre, Bilbao, Spain
Diploma Unit 6, Architectural Association, London 2007

Idea for the City : Conclusion of Your Project



Udayan Mazumdar, Airport Visualisation, Zero Ground, Mumbai, India
Diploma Unit 6, Architectural Association, London 2008

Idea for the City : Conclusion of Your Project



'Inbetween, Borderless School' by Iana Kim
2023-2 ARCH422-04

Idea for the City : Conclusion of Your Project



'Horizontal Ladder' by Taeyoon Kim
2023-2 ARCH422-044

Sites



Around Dolgoji Market, Seockwan dong
Seongbuk gu, Seoul



Instructor



Jeeseon Lim / 임지선

Director at Workshop Lim
ARB
AA Diploma, AA School, London UK
BSc Yonsei University

Prior to establishing Workshop Lim, she gained a wide range of experience at global practices such as FOA, Zaha Hadid Architects and Woods Bagot in London.

She led the design team on various projects as an Associate at Studio Kyson in London.

She has been teaching architectural design studios at Korea University since September 2022 and at Yonsei University since March 2023.

Studio 5

a-ppart-ment

Instructors

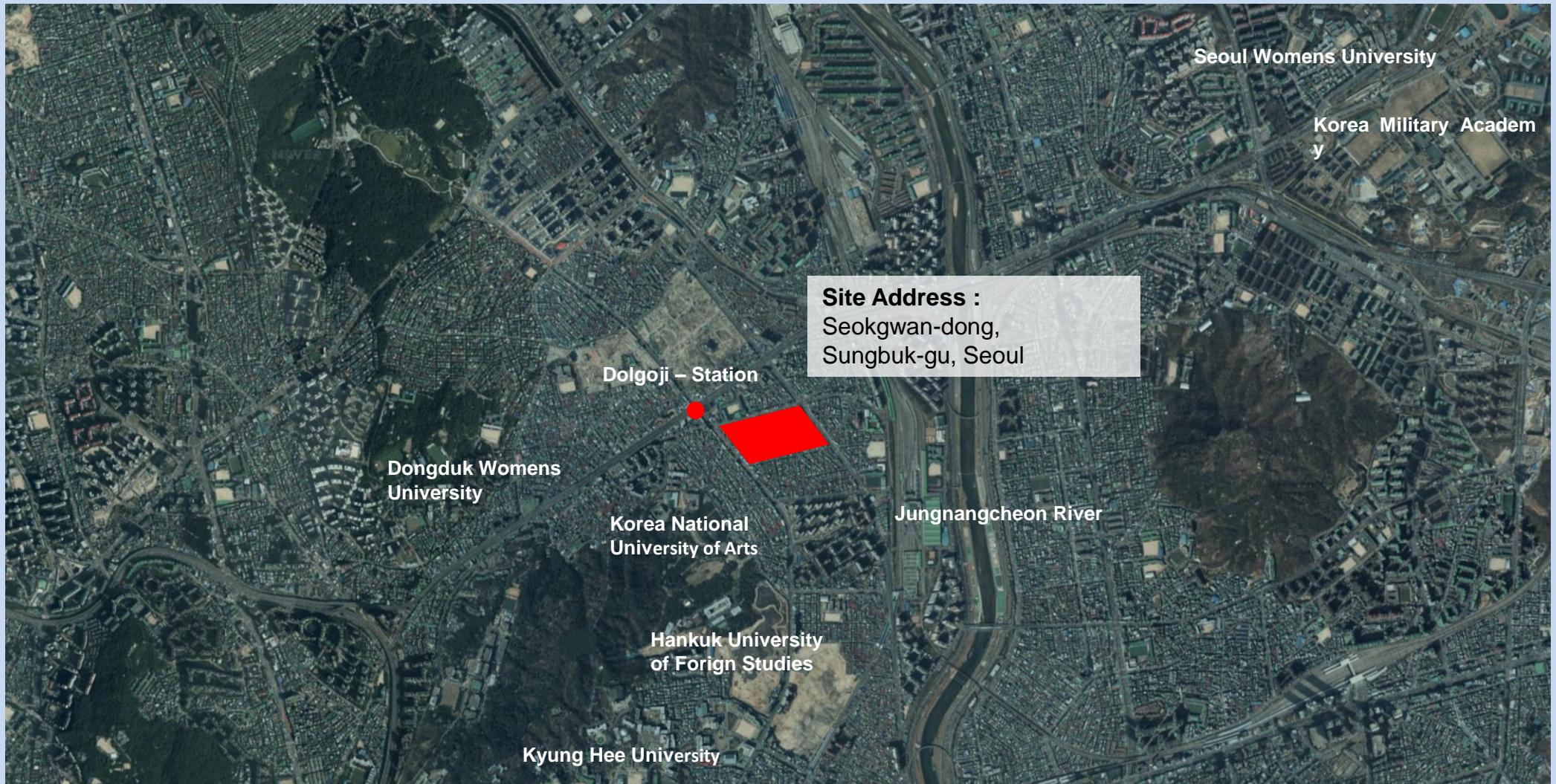
Sangwook Park (박상욱)

INTRODUCTION

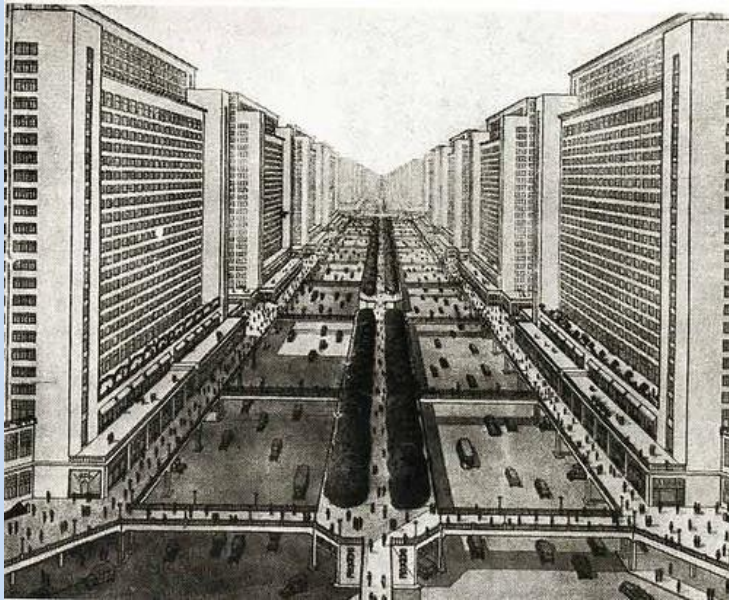


In the 19th century, Baron Haussmann in Paris, France, introduced a new residential type of apartment along with the installation of boulevards and a sewage system. As evident from the etymology of the term "appart," it represented a form of segregated communal living, characterized by high-ceilinged lobbies and shared entrances. This concept of apartment living marked a departure from previous residential forms like palaces and hotels. Against the backdrop of the industrial revolution, London evolved as a city centered around factories, while Paris embraced apartment-centric development.

SITE



STUDIO GOALS & OBJECTIVES



Following modernization, the types of collective housing have diversified further. The first apartment in Korea, Chungjeong Apartment, was constructed in the 1930s during the Japanese occupation, initially named Toyota Apartment for rental purposes. Subsequently, various apartments such as Cheongpungjang-Soahjang Apartment (1941), Hanmi Foundation Housing (1956), Jongam Apartment (1957), Mapo Apartment (1961), Dongdaemun Apartment and Jeongdong Apartment (1965), Hilltop Apartment, Seoun Shopping Center, and Nakwon Shopping Center (1967), Soseo Apartment and Banpo Jugong Apartment (1973), and Tower Palace (1999) have evolved to adapt to the changing societal landscape.

STUDIO GOALS & OBJECTIVES



Through the subdivision of single residences into stacked communal living units, apartments transcend the conventional notion of architecture and are perceived as products designed for habitation. However, the limitations of locality and mobility in housing as a product make it challenging to maintain a balance between demand and supply, leading to urban congestion. The efficiency of urban infrastructure becomes restricted as an increasing number of people reside in confined areas, contributing to unnecessary density. In a capitalist society, despite the inconveniences, the opportunities and conveniences offered by cities persistently drive urban expansion and intensification. In light of these challenges, how can we contemplate the future forms of housing for the next generation?

REFERENCE PROJECTS



Habitat 67, Moshe Safdie



Clusters in the Air. Model, 1962 — Arata Isozaki



Nakagin Tower — Kisho Kurokawa



Markthal, MVRDV



The Interlace, OMA



8 House, BIG

STUDIO OVERVIEW & INSTRUCTORS

This studio aims to study the history of communal living, conduct case studies reflecting the societal changes brought about by population shifts, mobility, technological advancements in communication, and propose a new typology of apartments. By considering the evolution of apartment living and societal transformations, the studio seeks to contribute to the ongoing discourse on innovative housing solutions for the urban dwellers of tomorrow.



Sangwook Park / 박상욱

Master of Architecture
(Harvard University, GSD)

Arktonic 대표