20180705 P5 presentation

Interaction In Between

:Keeping the rule while breaking the rule

Jinhyuck Lim
4568974

Intro

In-Between; Research and Design

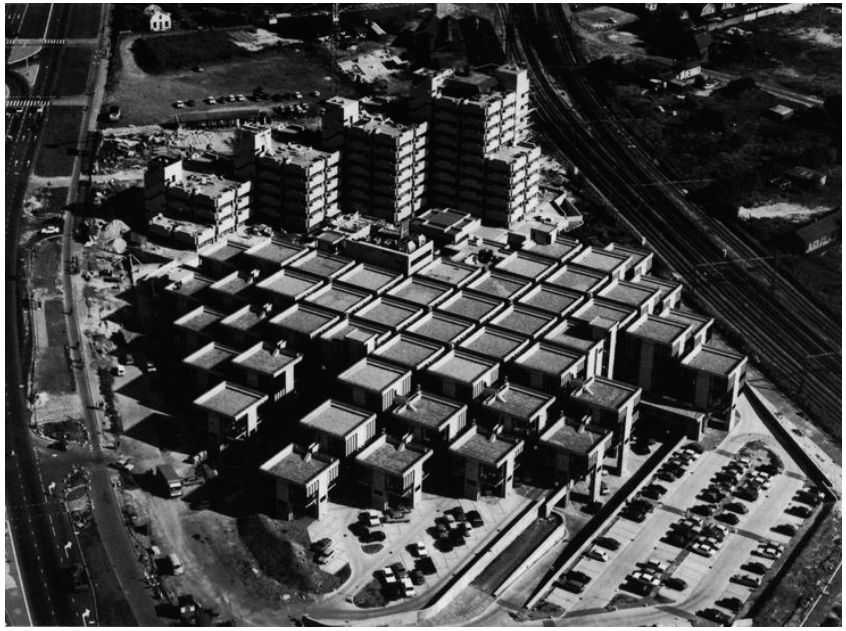
In-between; the City and the Building

In-between; the Space and the Function

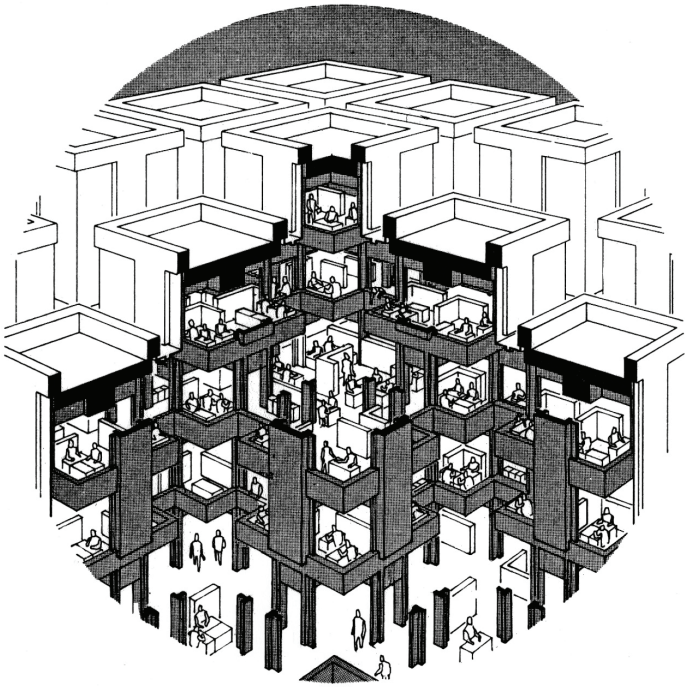
In-between; the Design and Comfort

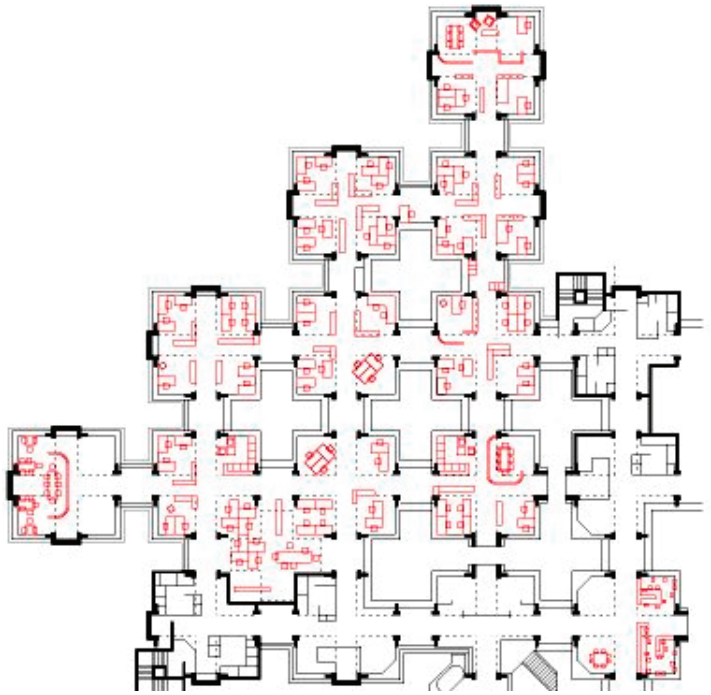
Conclusion

Herman Hertzberger



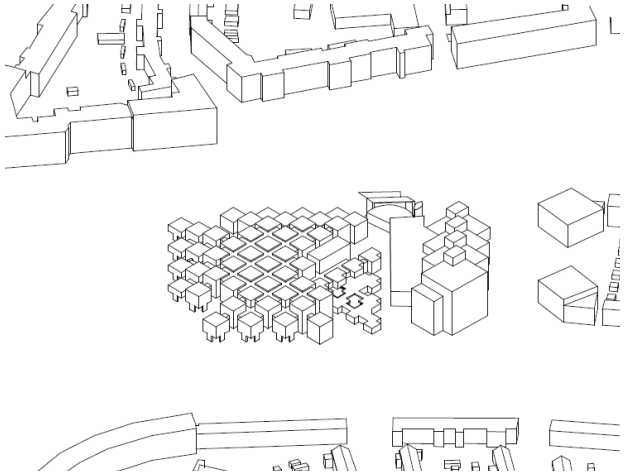
Centraal Beheer Office





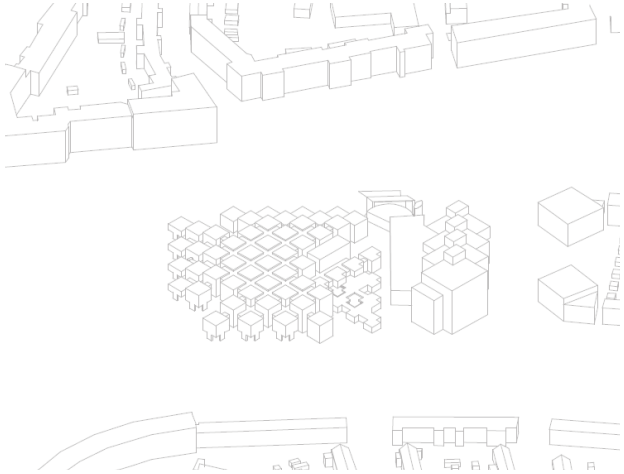
suggested the new spatial typology for co-working and interaction

Waiting for the improvement



a lonely island

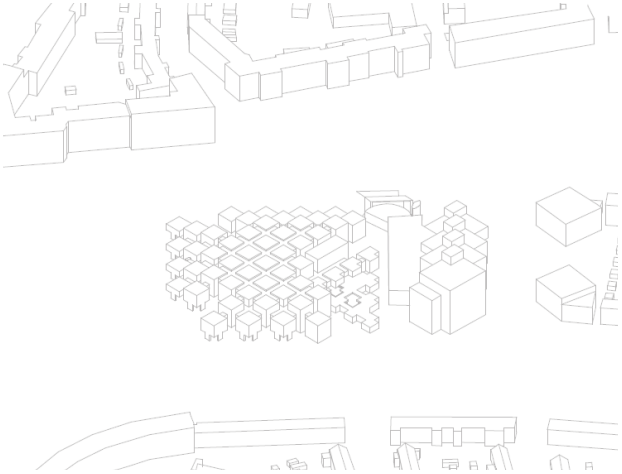
Waiting for the improvement



a lonely island

abandoned space

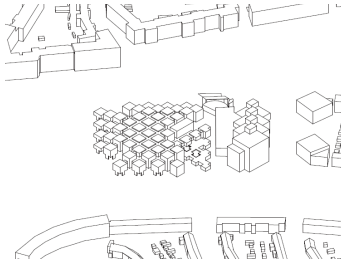
Waiting for the improvement

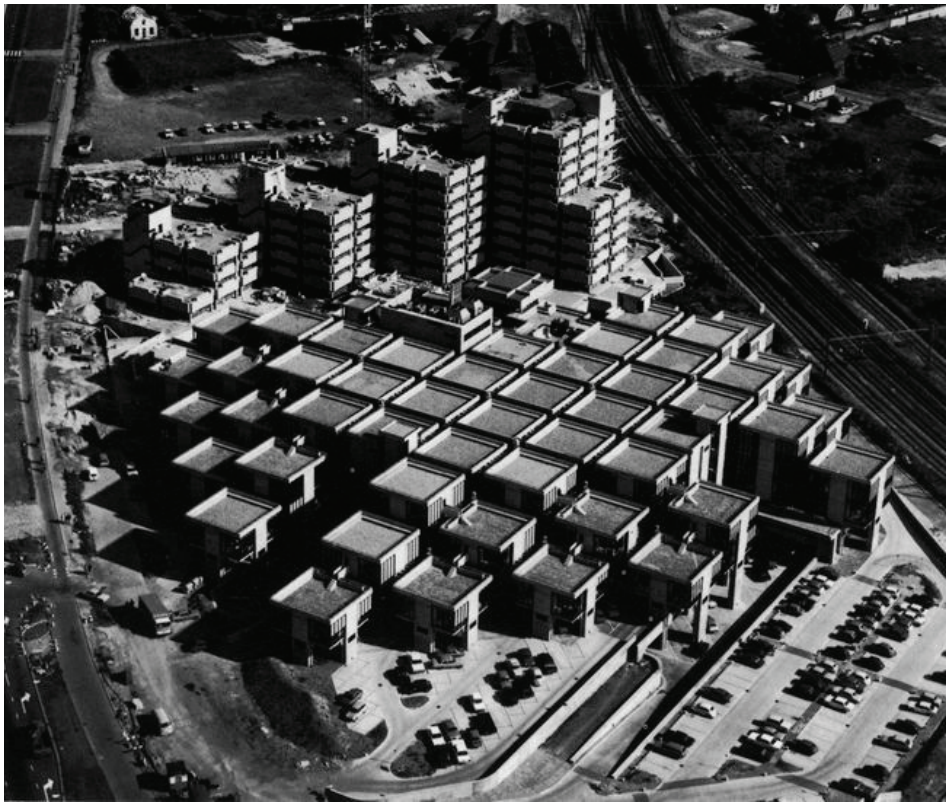


a lonely island

abandoned space

insufficient sustainability



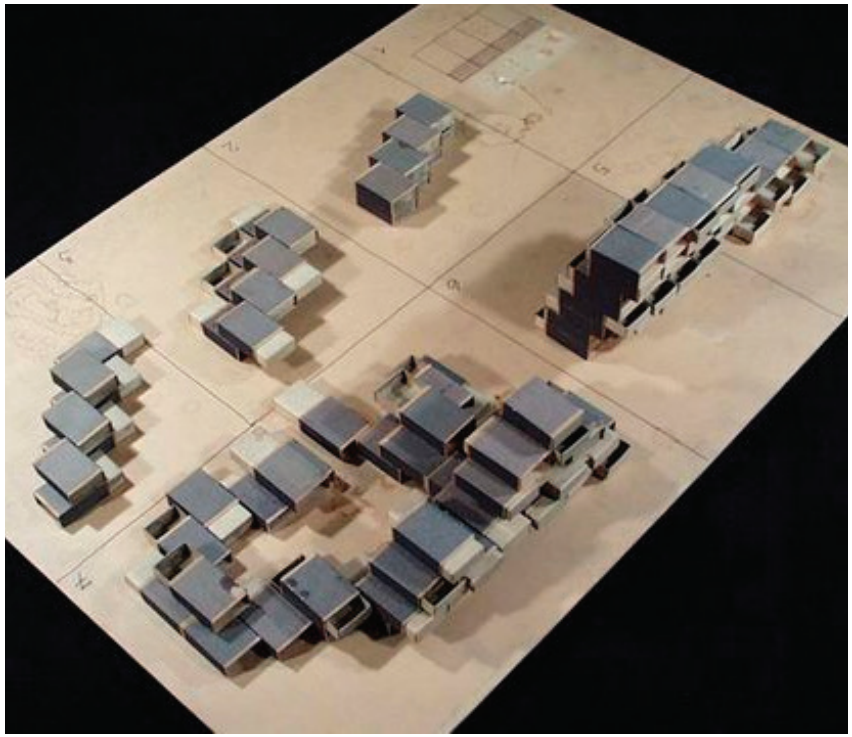


How to improve the existing building?

Preservation?

Restoration?

The idea of Dutch Structuralism Architecture and Herman Hertzberger



repeated living cell, Herman Hertzberger

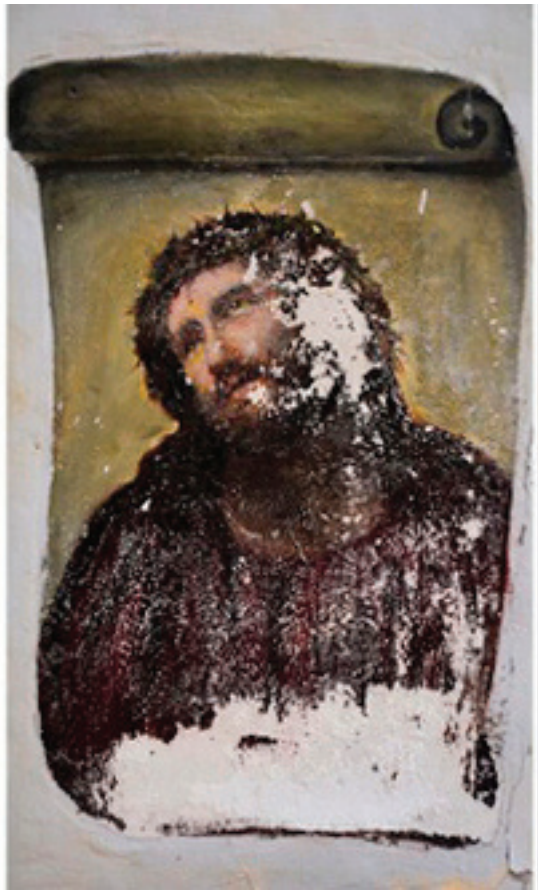
Diagoon Housing, Herman Hertzberger

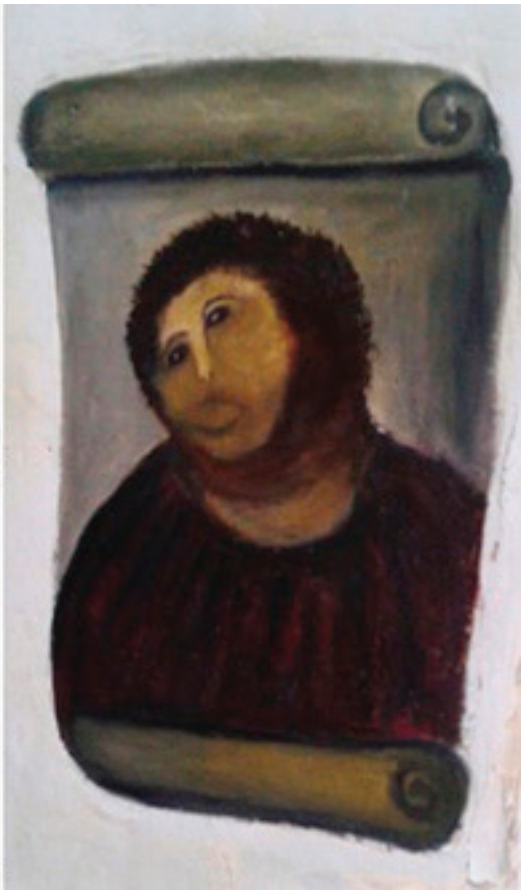
The architecture that is already implying the future change in it

Reinterpretation!

Remake!

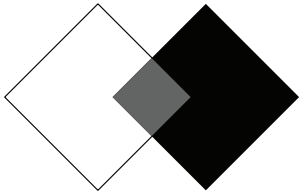
Ecce Homo de Elías García Martínez.



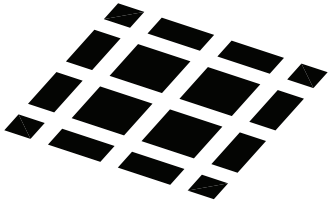


Keeping the rule, while breaking the rule

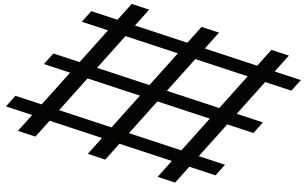
co–determination



intermediate space



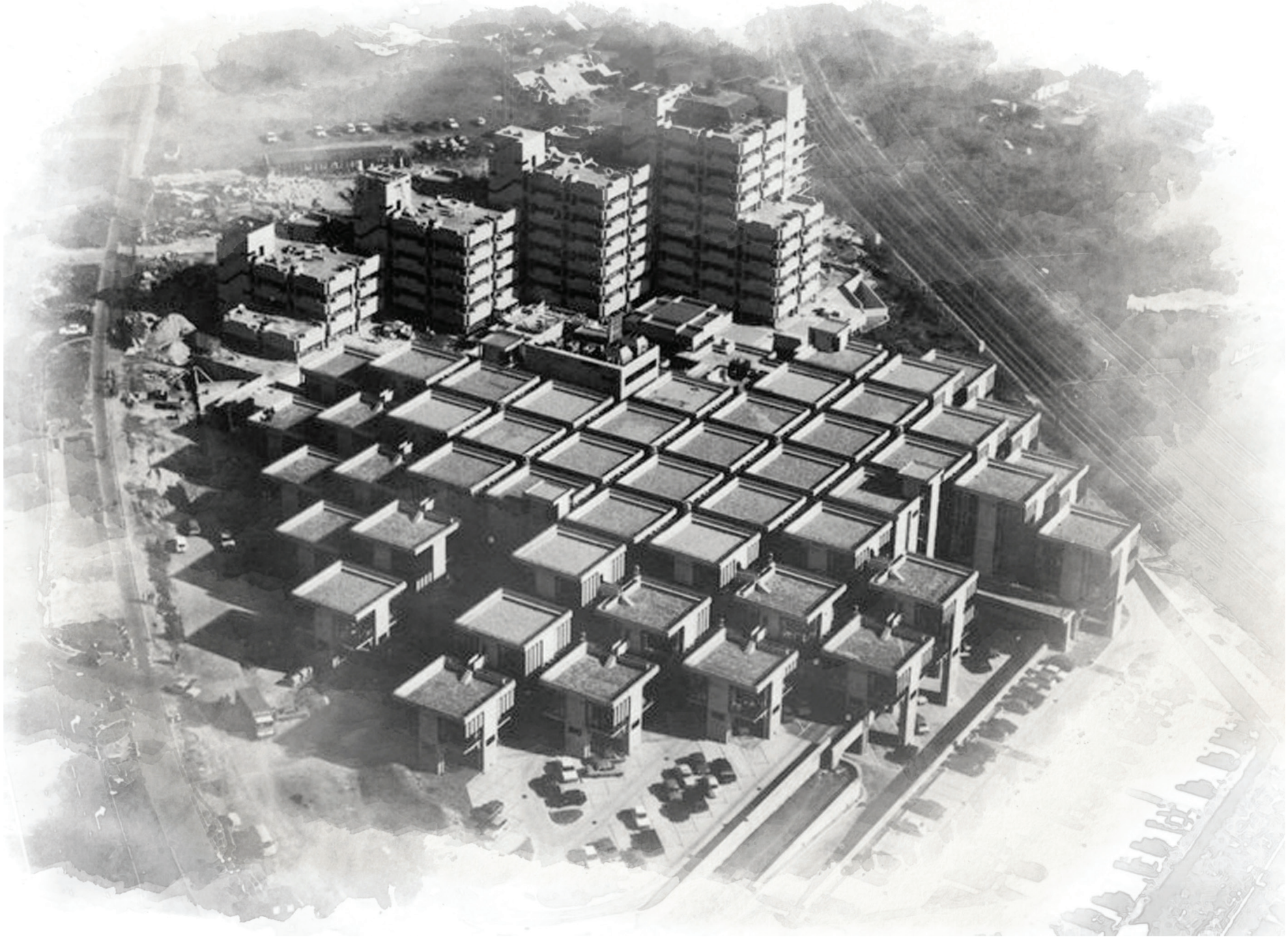
polyvalent space

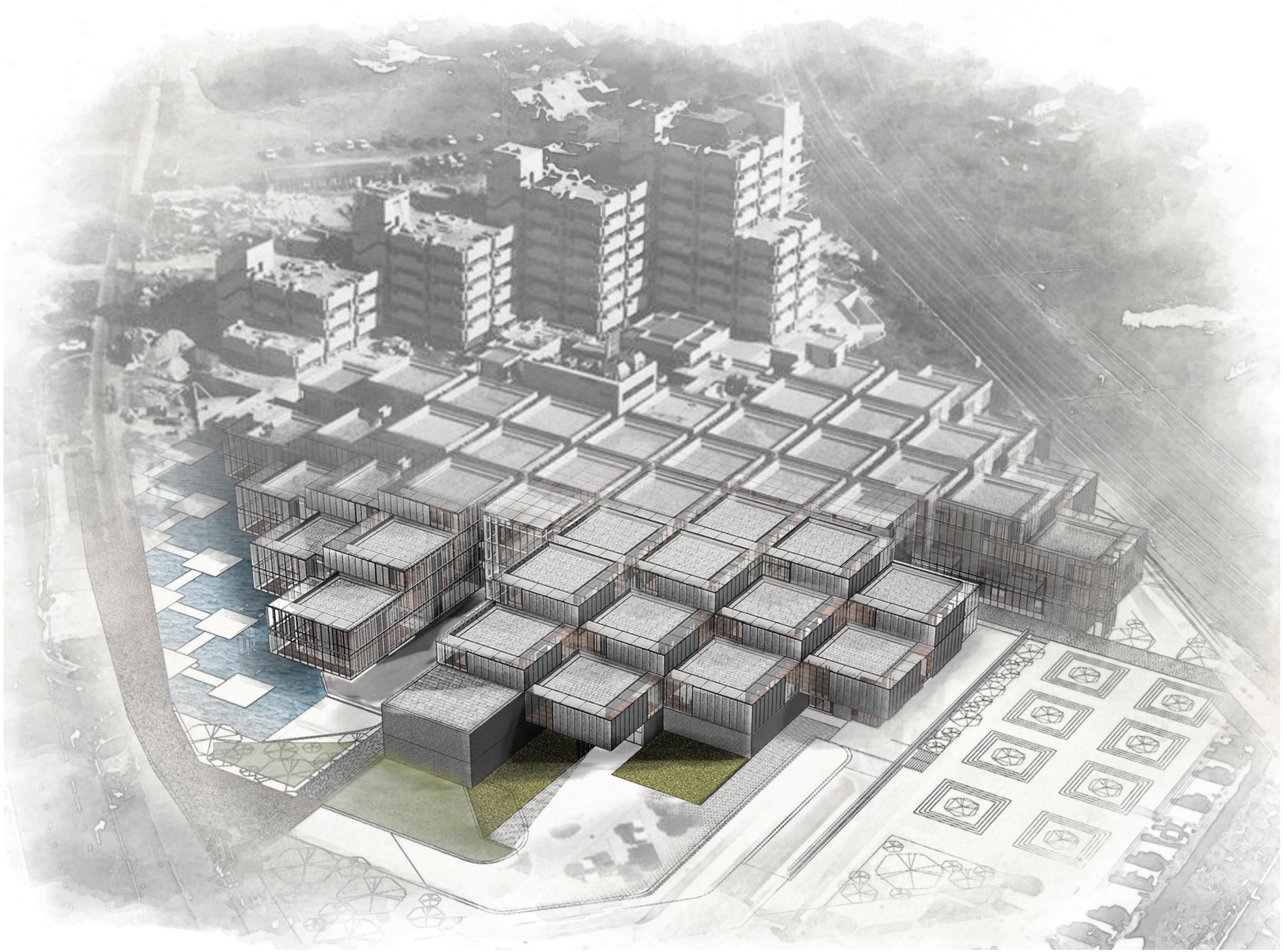


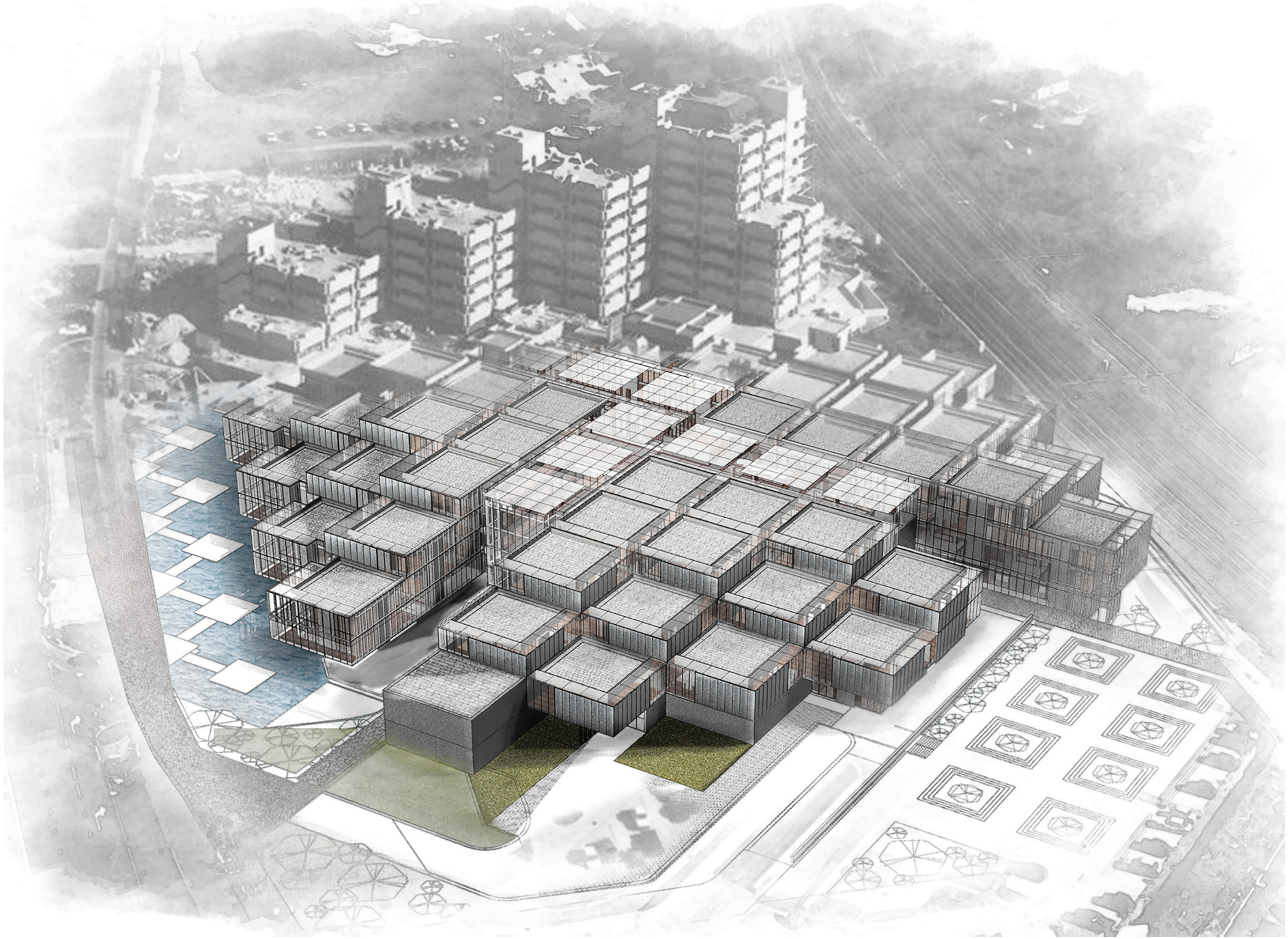
in–between void space

social interaction

reinterpretation through reusing the architectural principle of Herman Hertzberger







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Conclusion

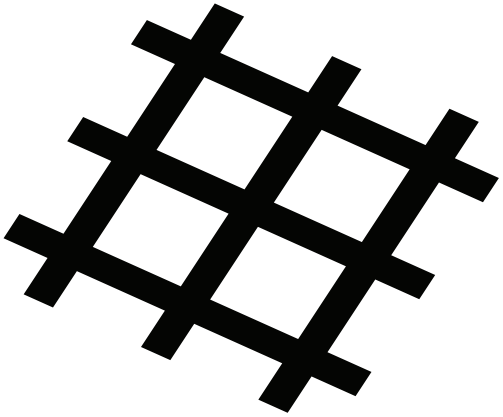
How did Hertzberger draw his sketch?

Social Interaction

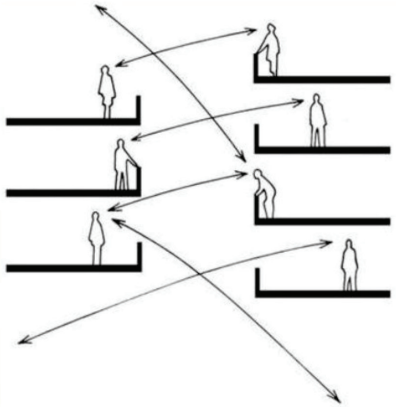
Hertzberger's ultimate goal

: The architectural space that creates encounter among the people

How did Hertzberger draw his sketch?



in–between void space



The gray zone where creates
unexpected interaction and spatial quality

Architectural Theme

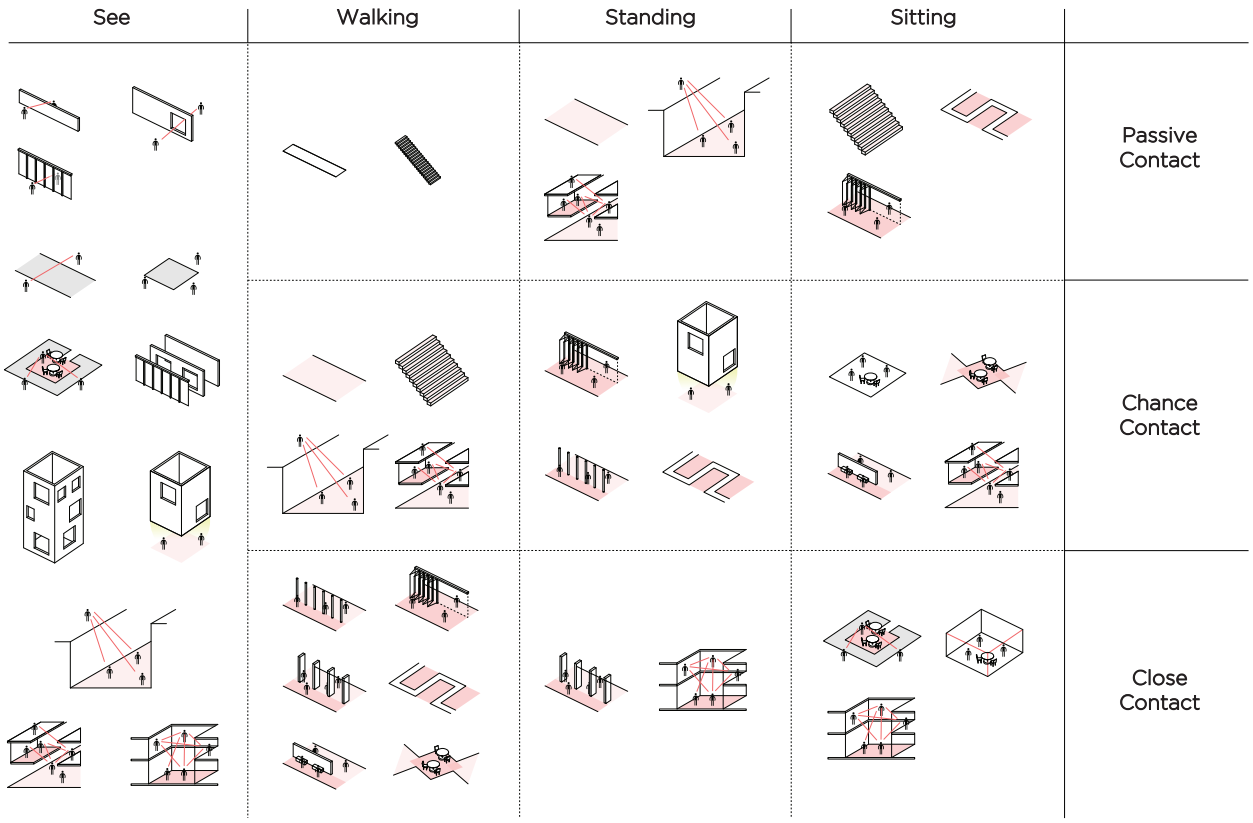
Interaction, In–between, Coexistence

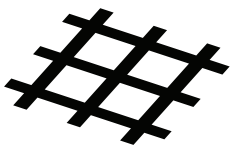
Research Question

How to make Centraal Beheer Office to create interaction through in-between space?

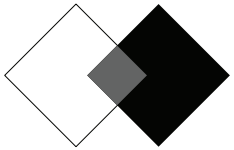
Interaction?

Spatial Elements for Interaction : Conclusion





in–between void space



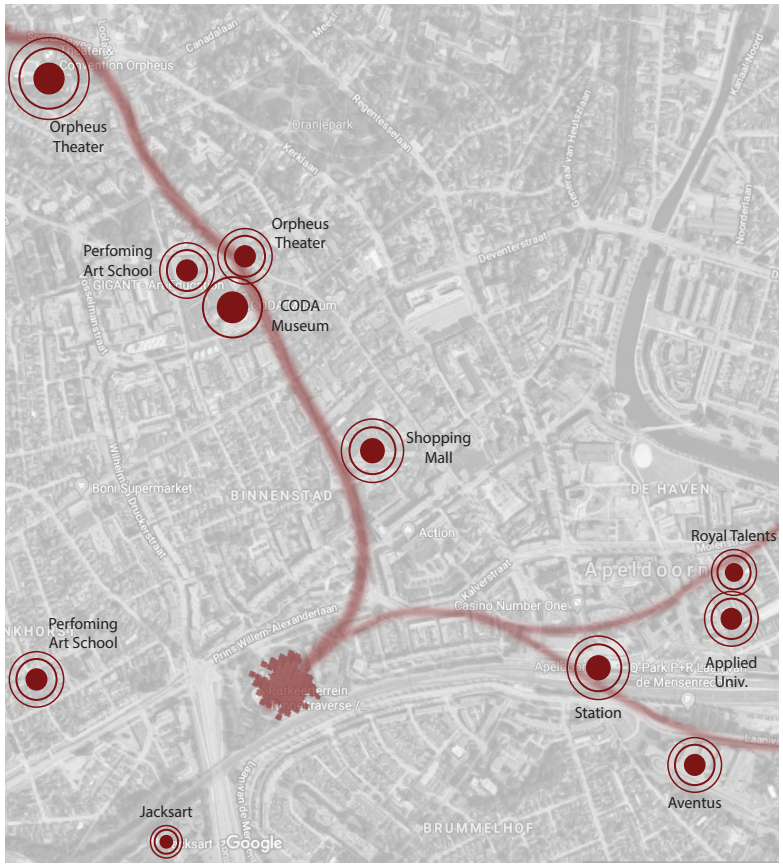
intermediate space

social interaction

Program?

: Art Academy

Art Academy

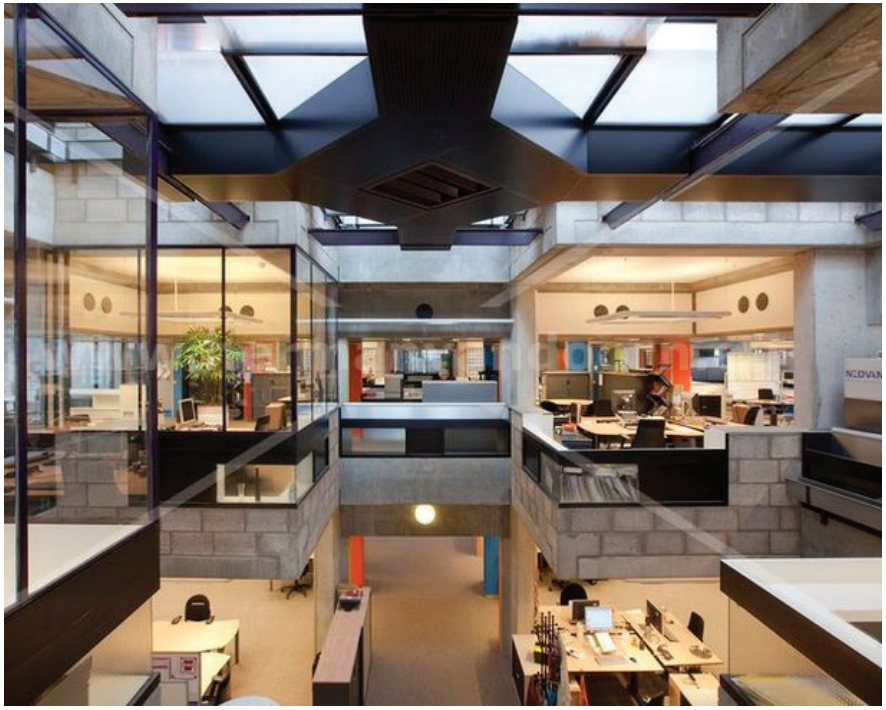


Along with the other cultural facilities designed by Hertzberger

Art Academy

To attract people to come to the building through cultural programs

Art Academy



To reuse the spatial potential of Centraal Beheer Office
by applying the open environment of Art Academy

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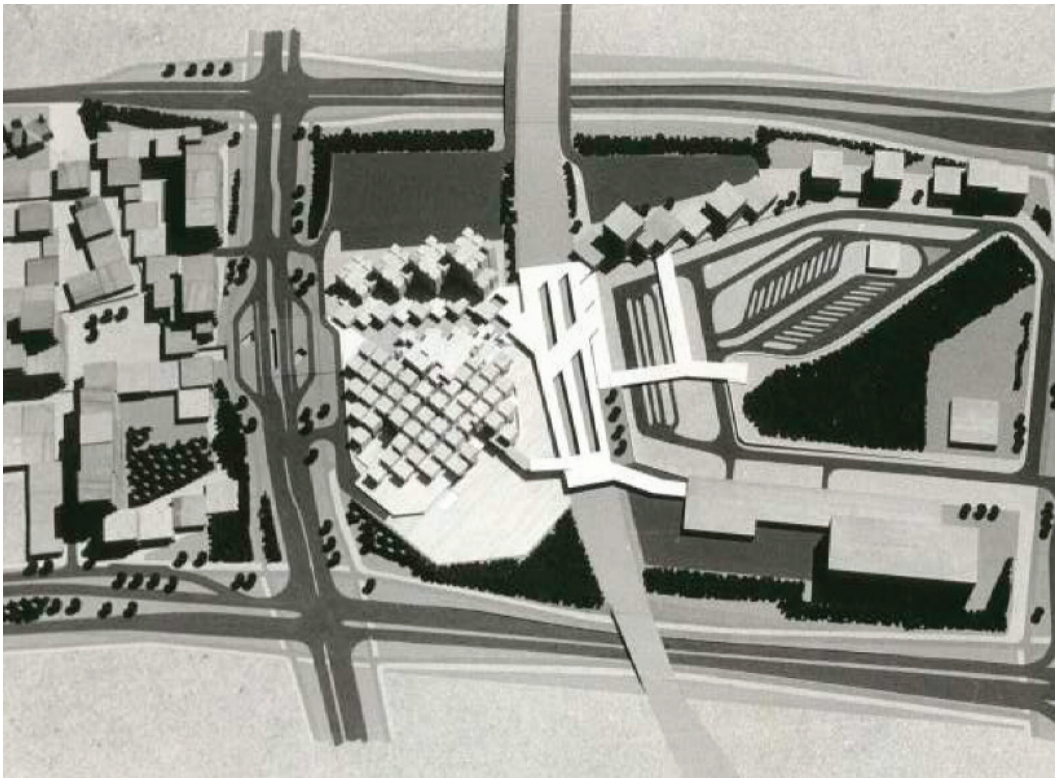
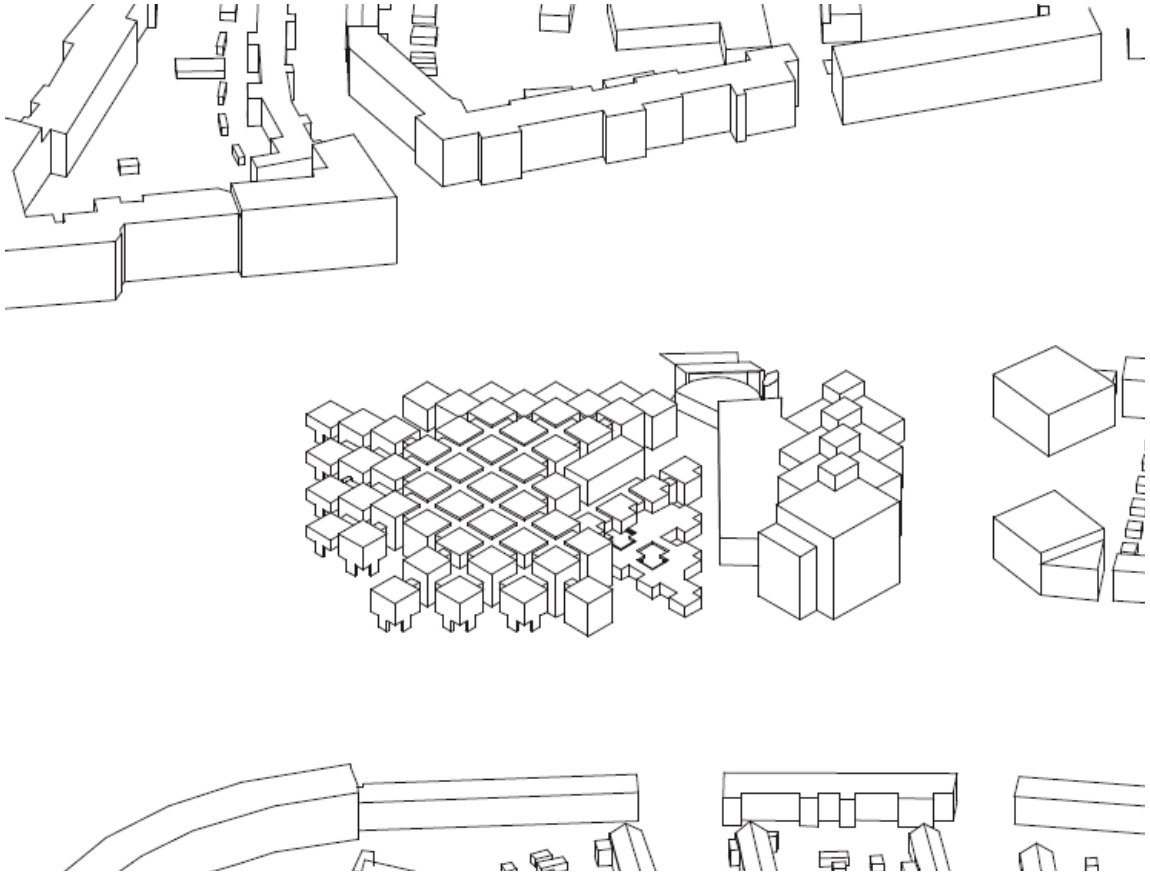
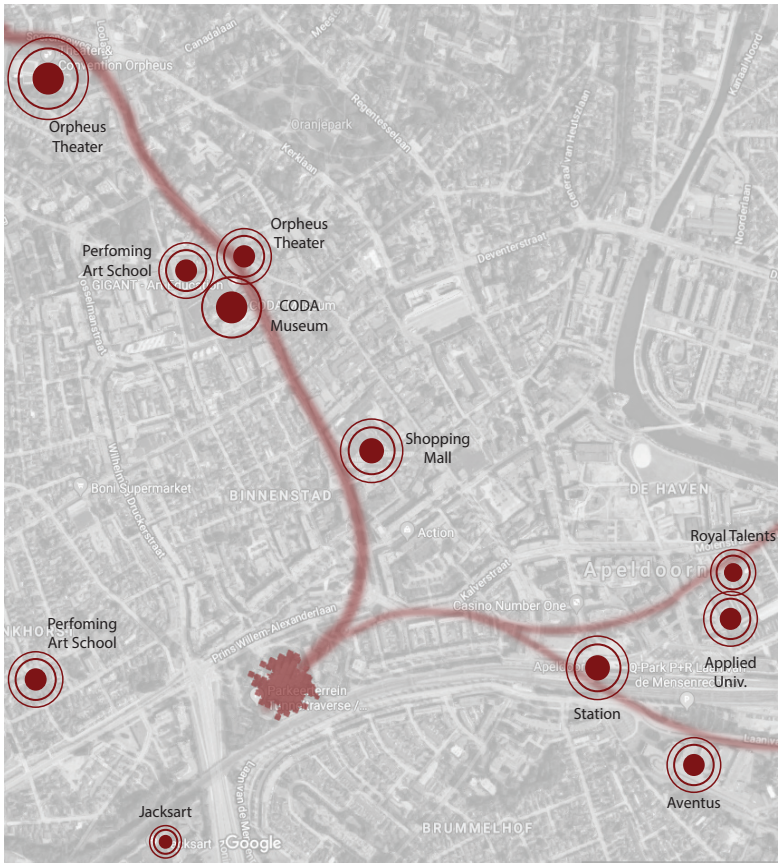


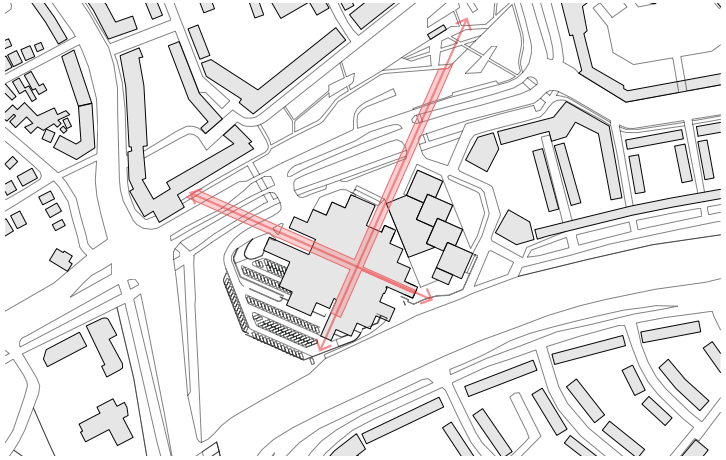


How to retrieve the publicness of Centraal Beheer Office?

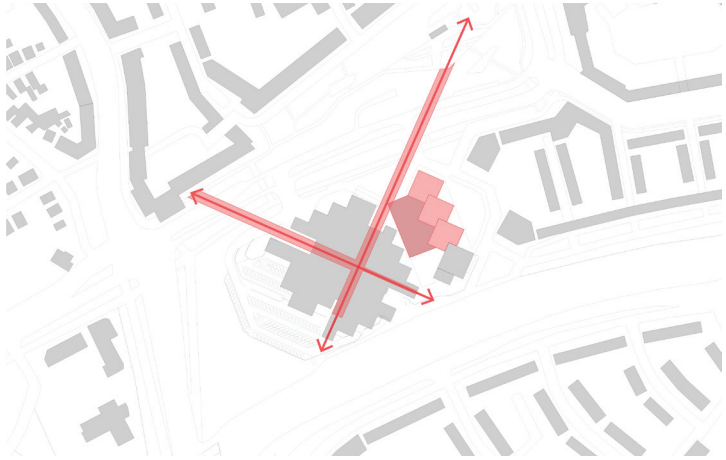


cultural backbone of Apeldoorn

Master plan scheme



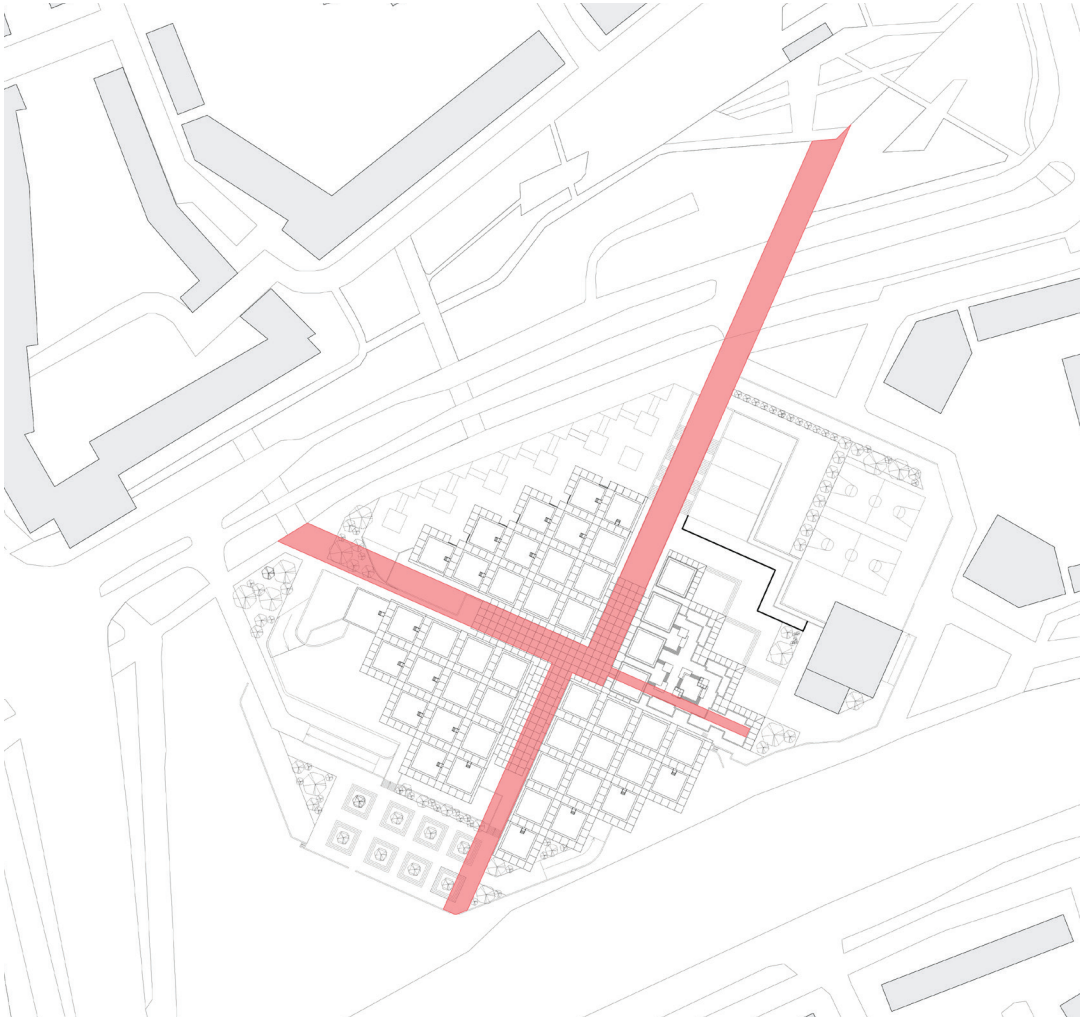
urban axis



demolishing existing building

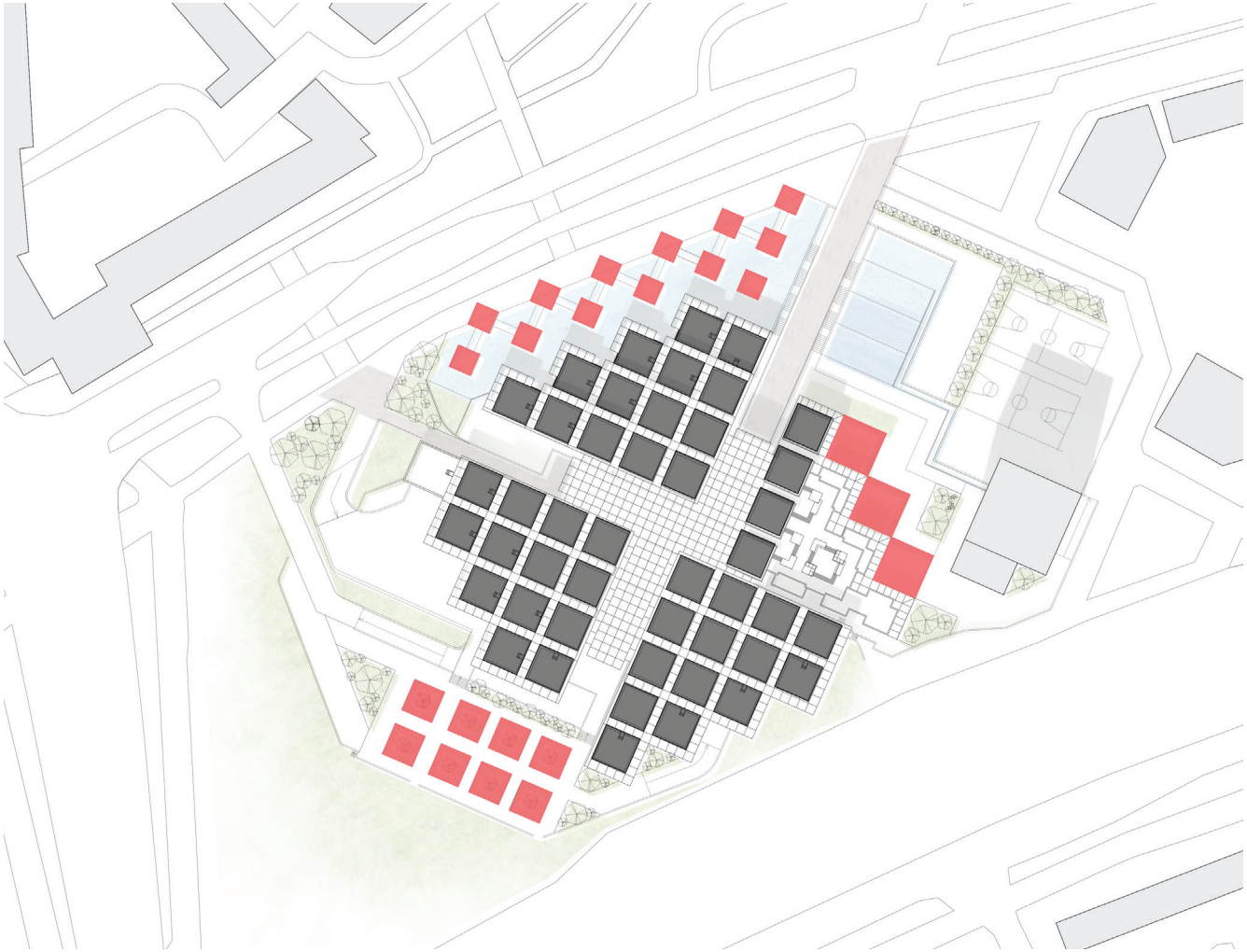
public greenery for the people

semi public greenery for students

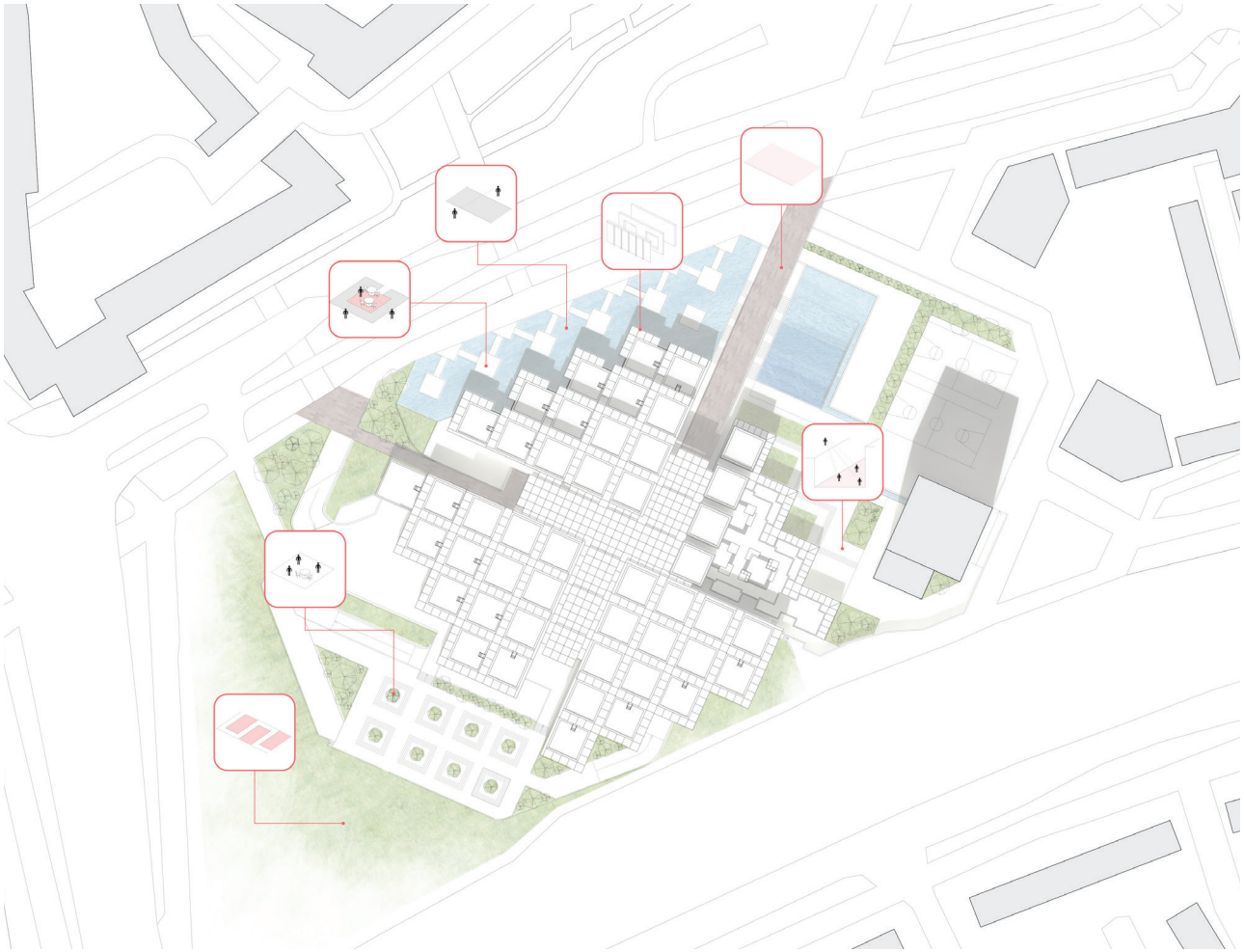


connect with the urban context

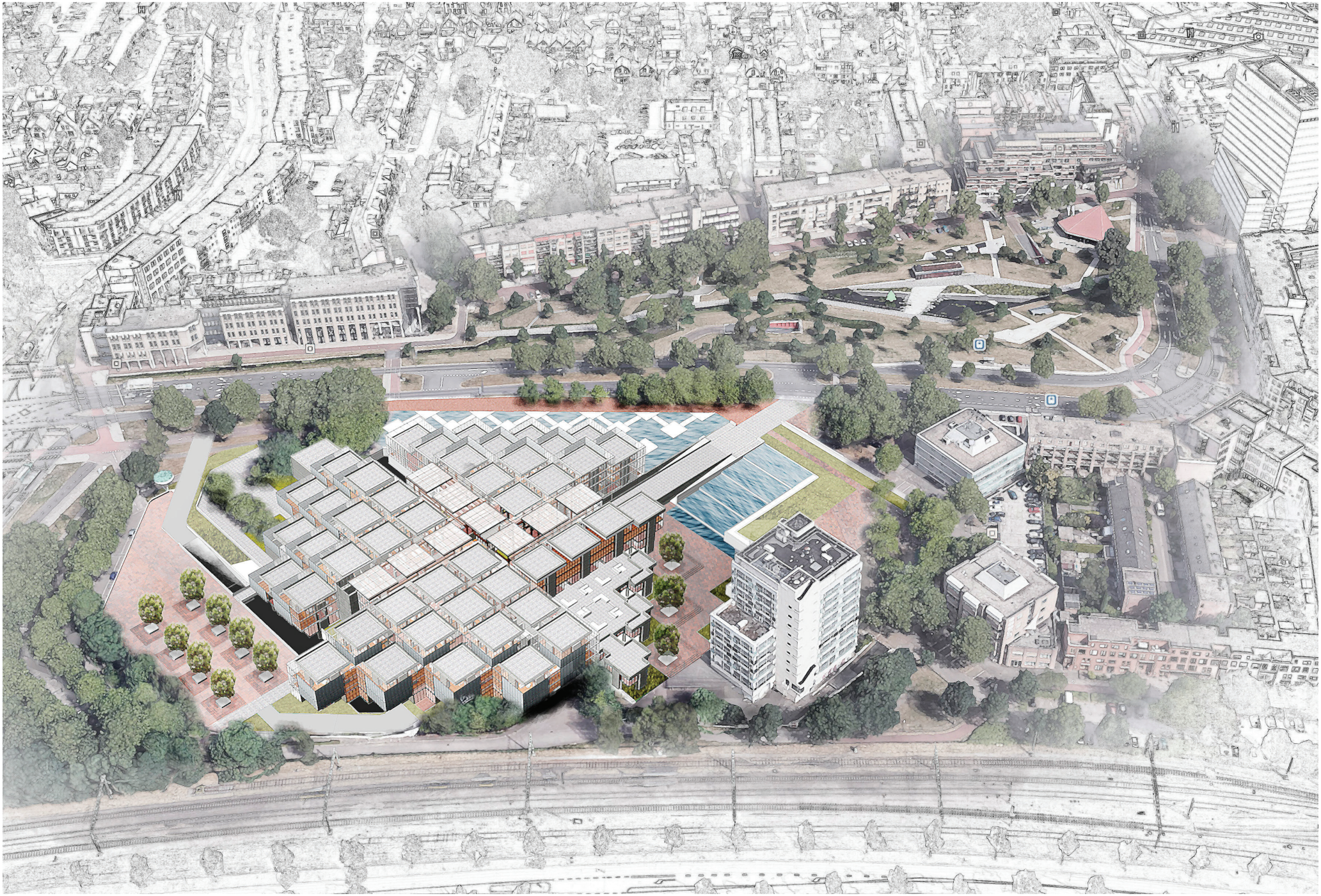
create greenery zone

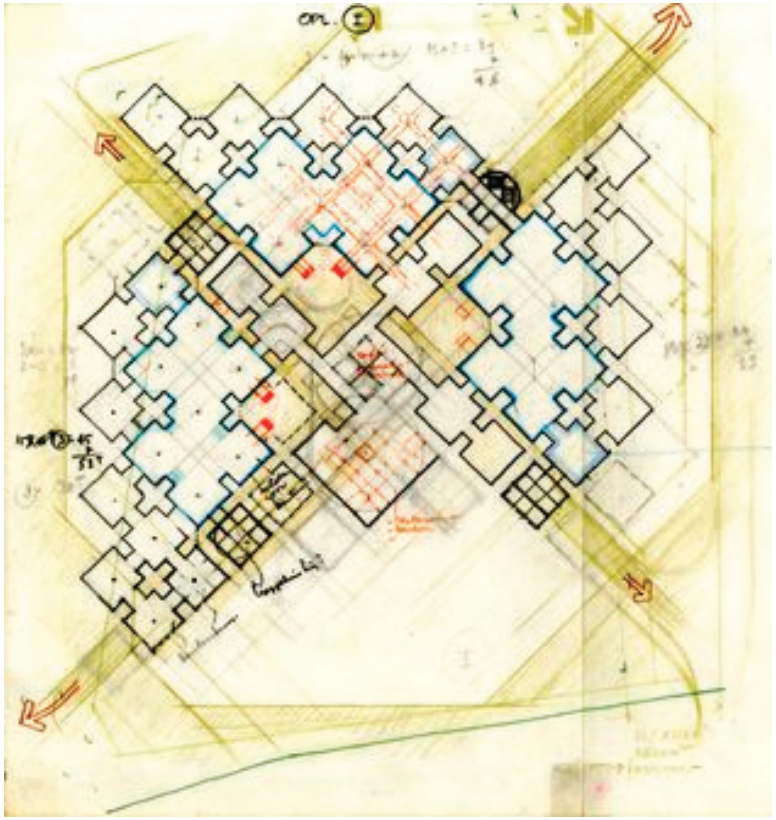


extend the inner spatial logic

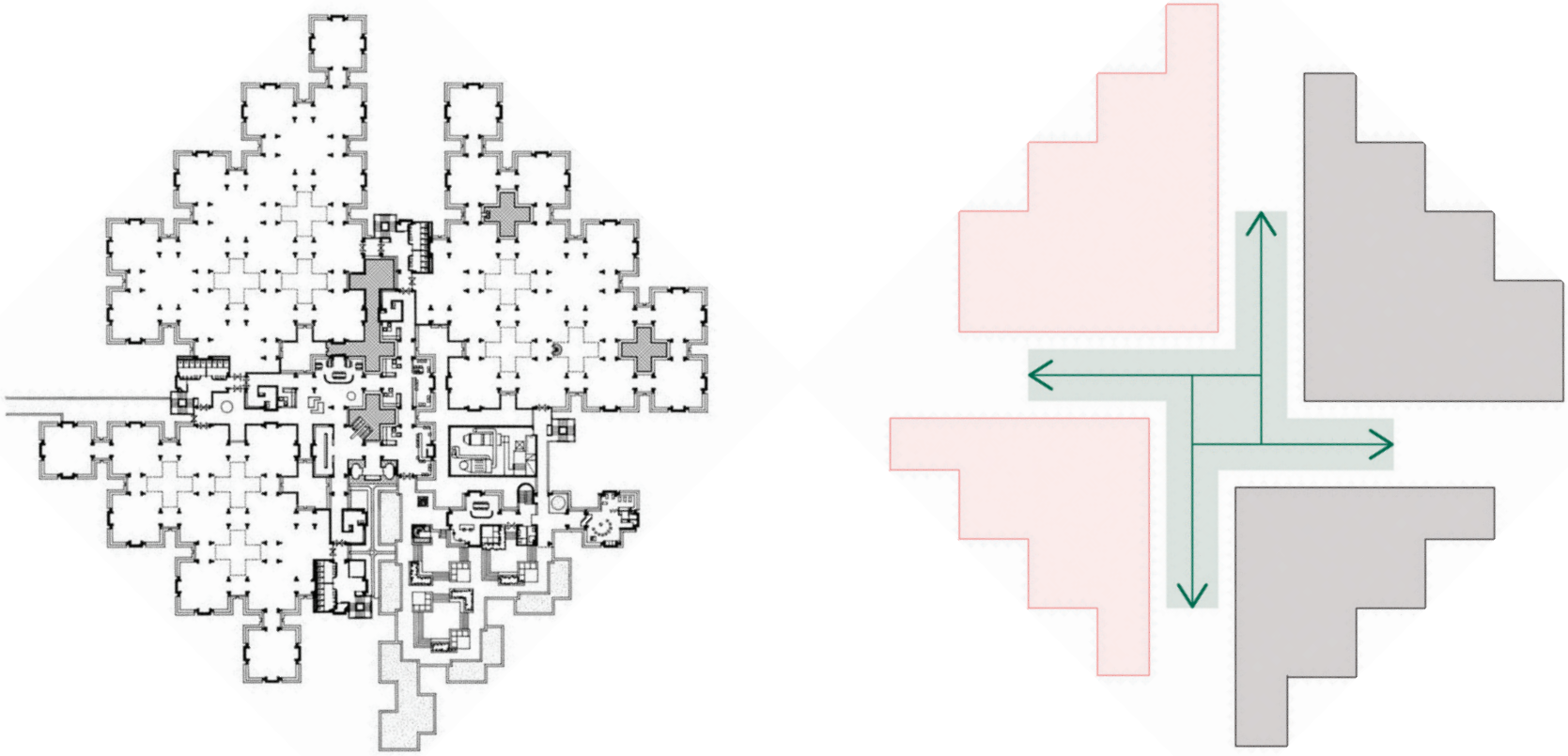


apply spatial elements for interaction

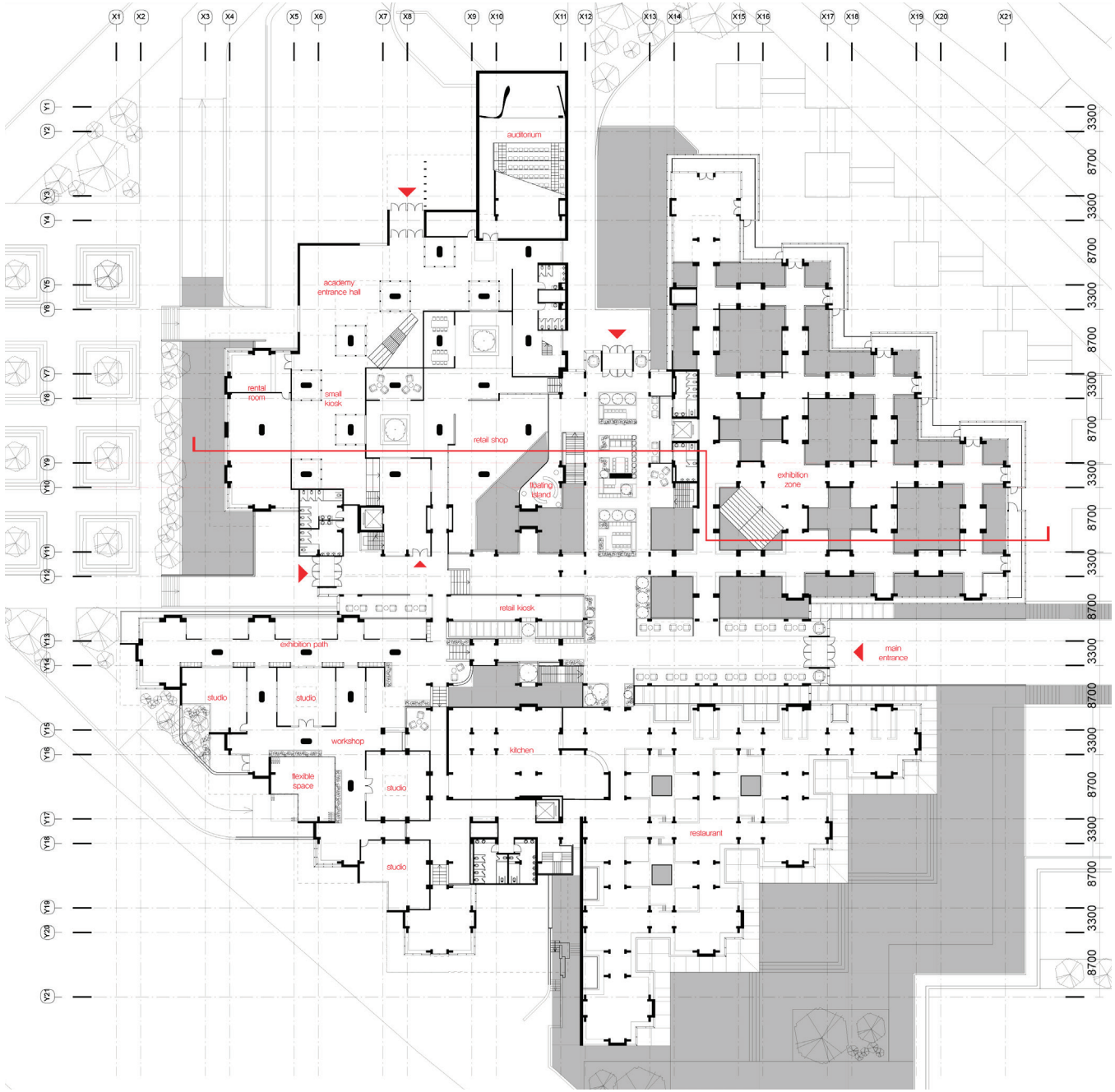


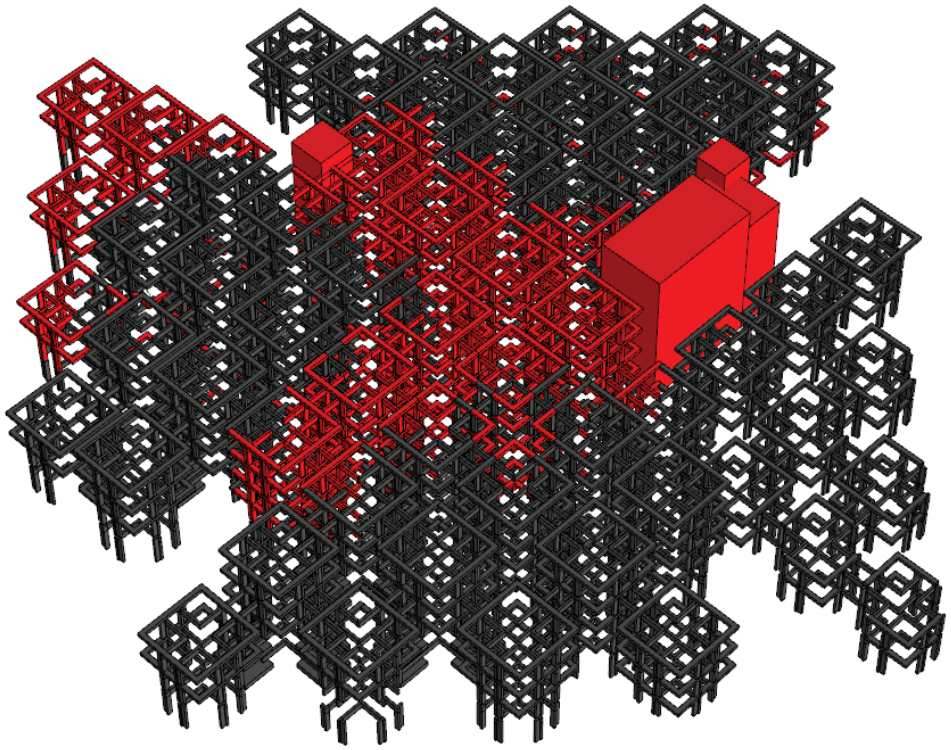


How to attract the public into the building?

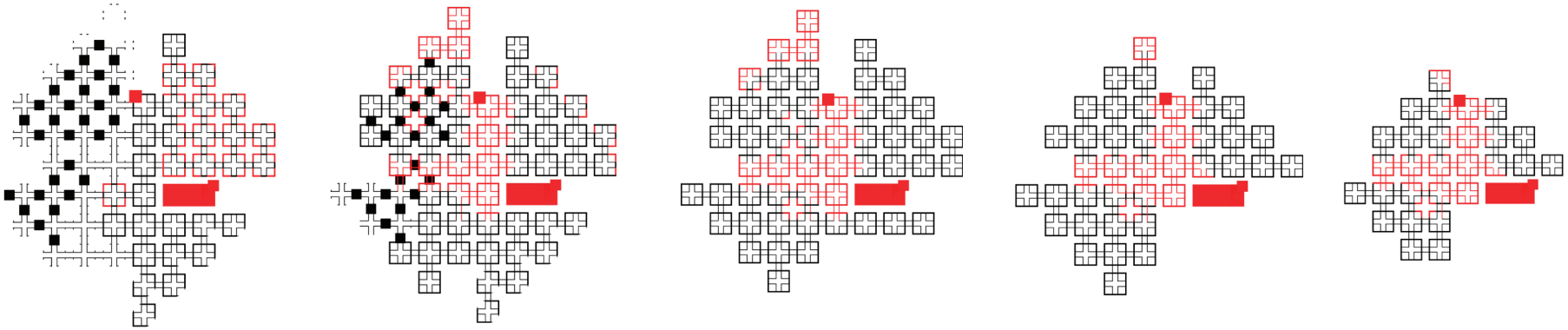


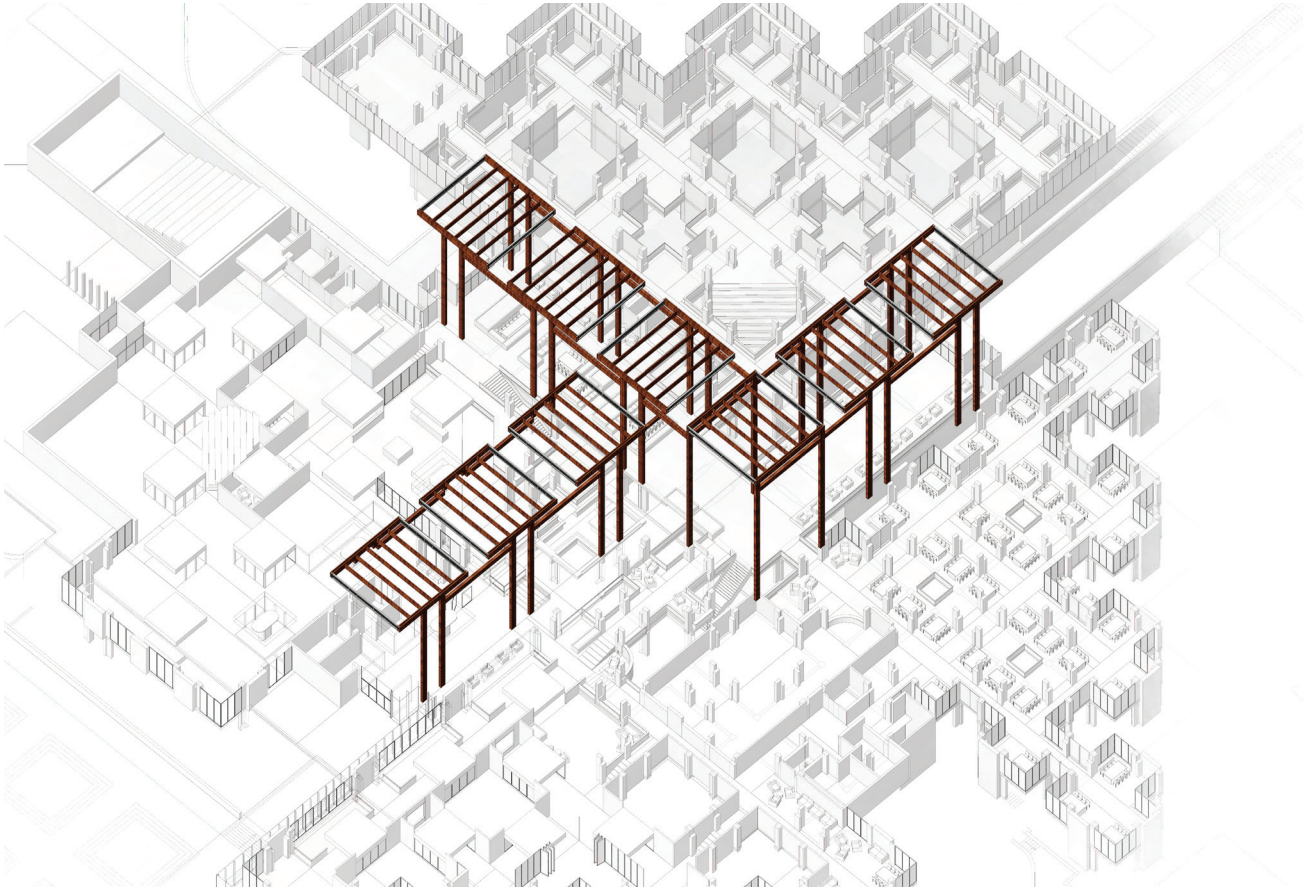
Broadening Inner Street


auditorium
academy entrance hall
rental room
small kiosk
retail shop
floating island
exhibition zone
retail kiosk
exhibition path
main entrance
studio
studio
workshop
flexible space
studio
kitchen
restaurant
studio

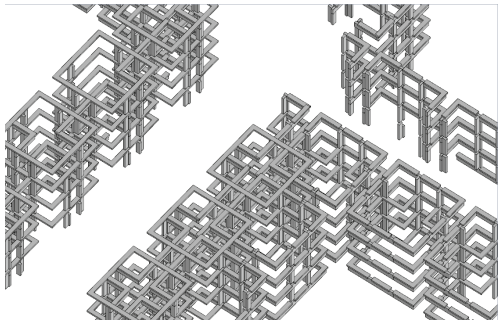


remove of existing structure

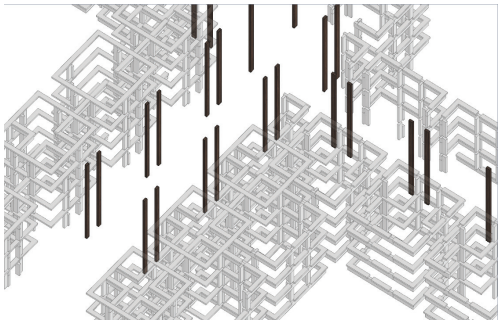




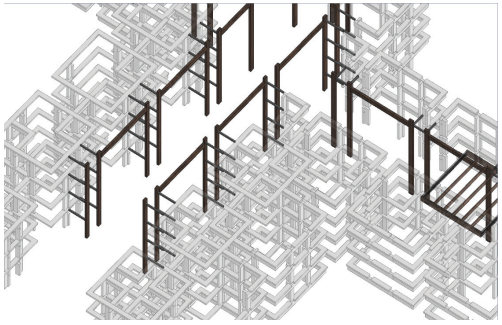
inserting the new construction



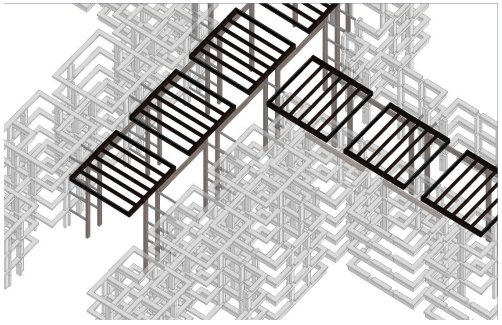
demolishing parts of existing structure



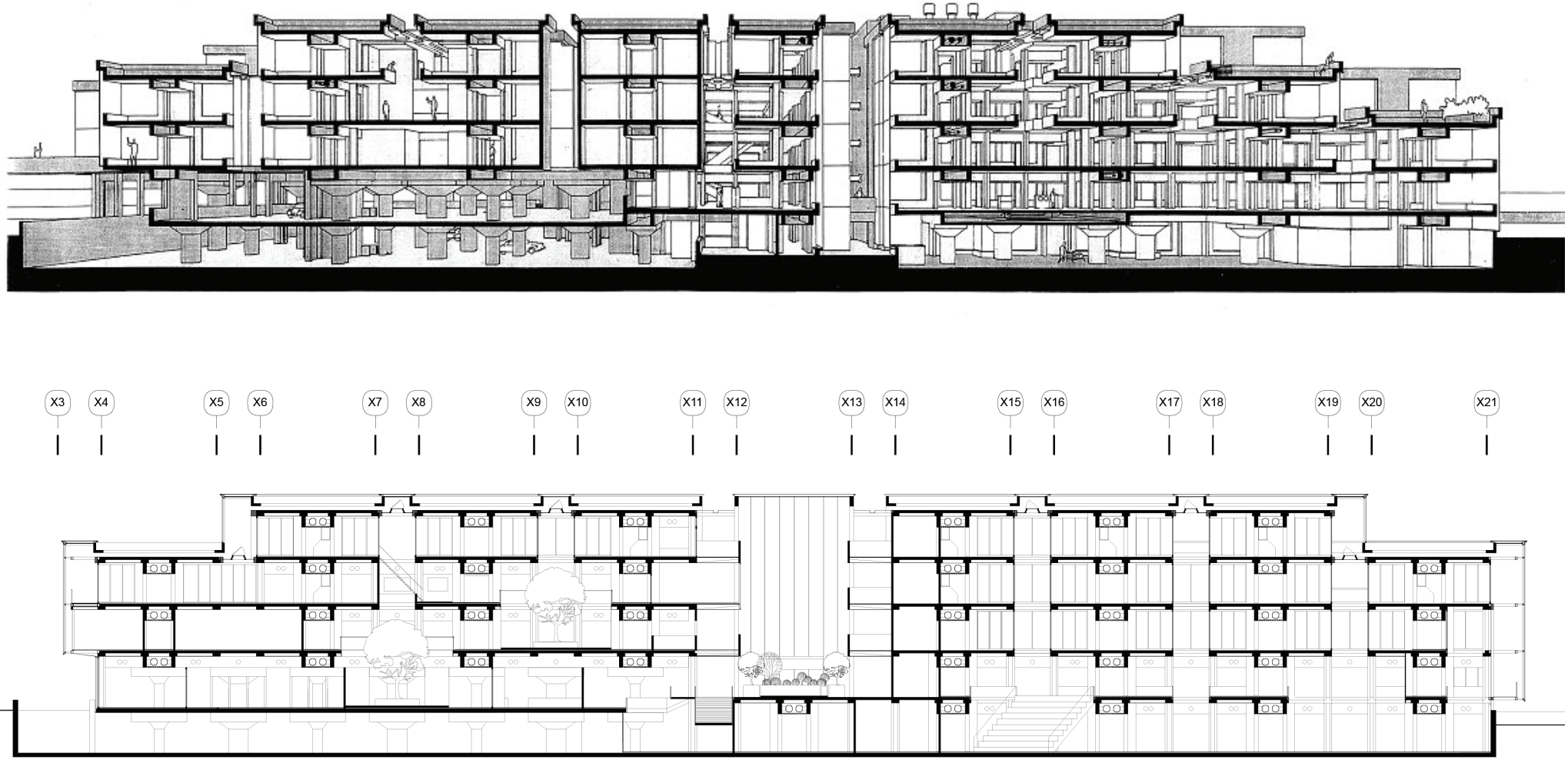
inserting new columns



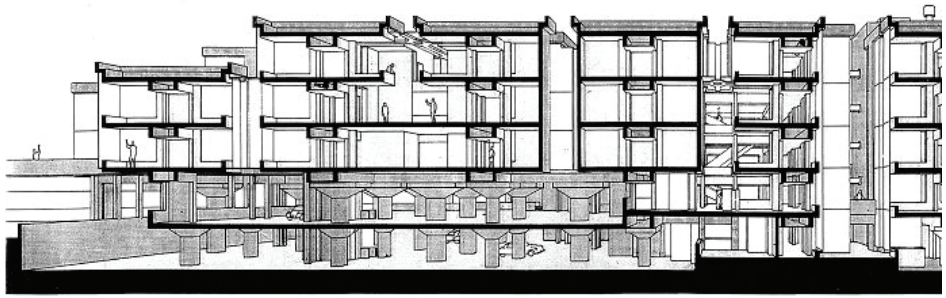
connecting each of columns

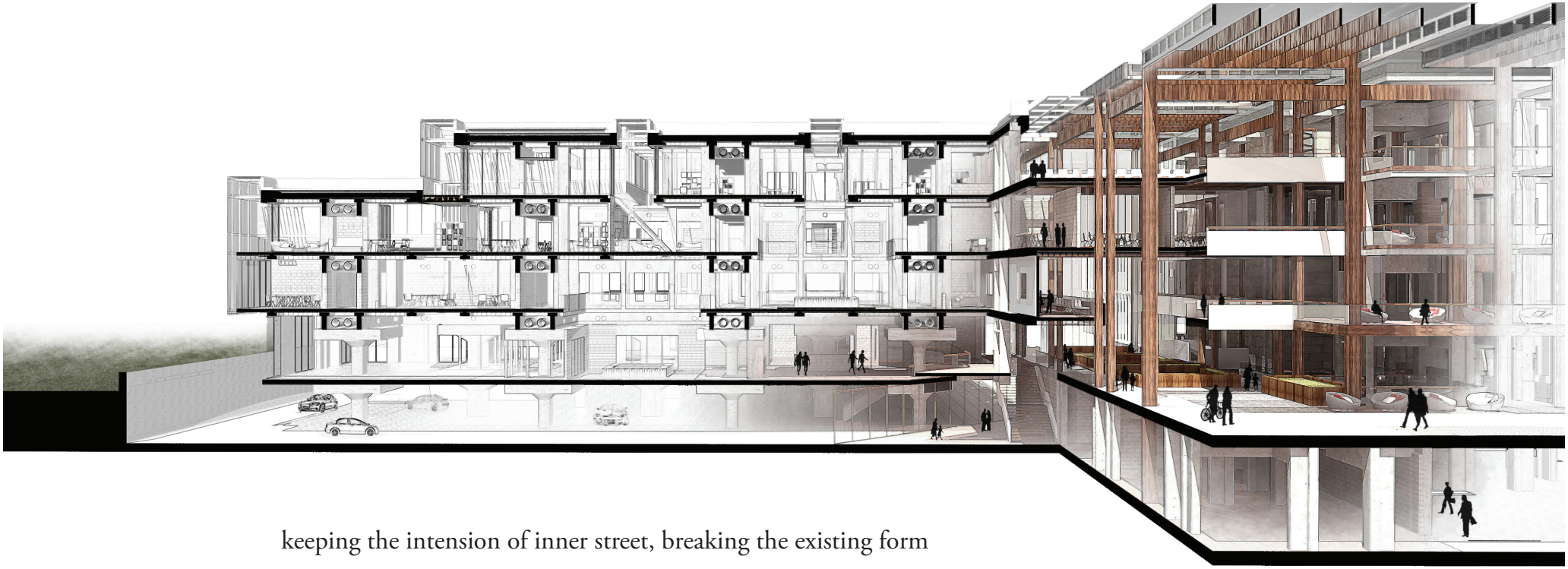


placing new roof construction



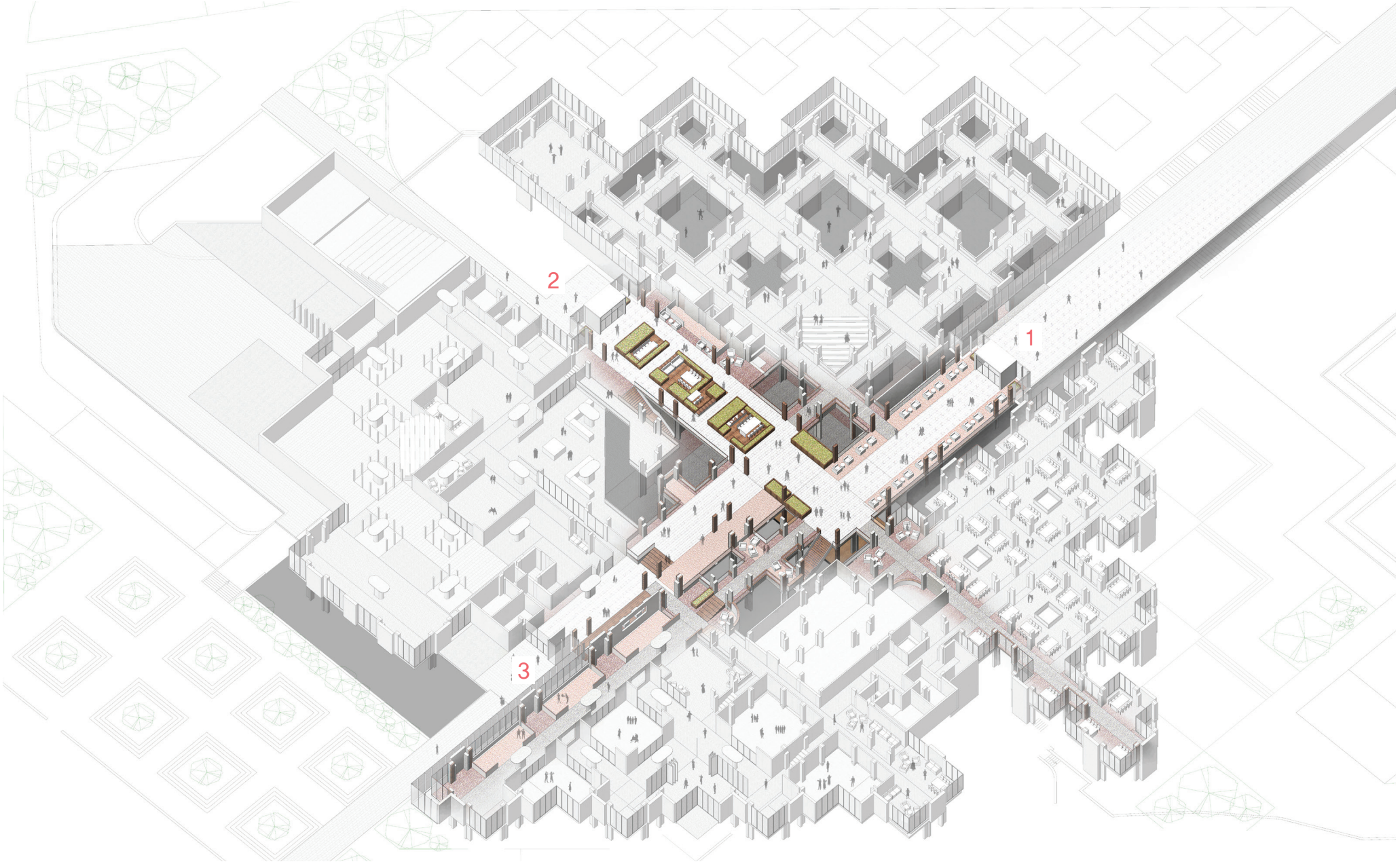
keeping the intension of inner street, breaking the existing form

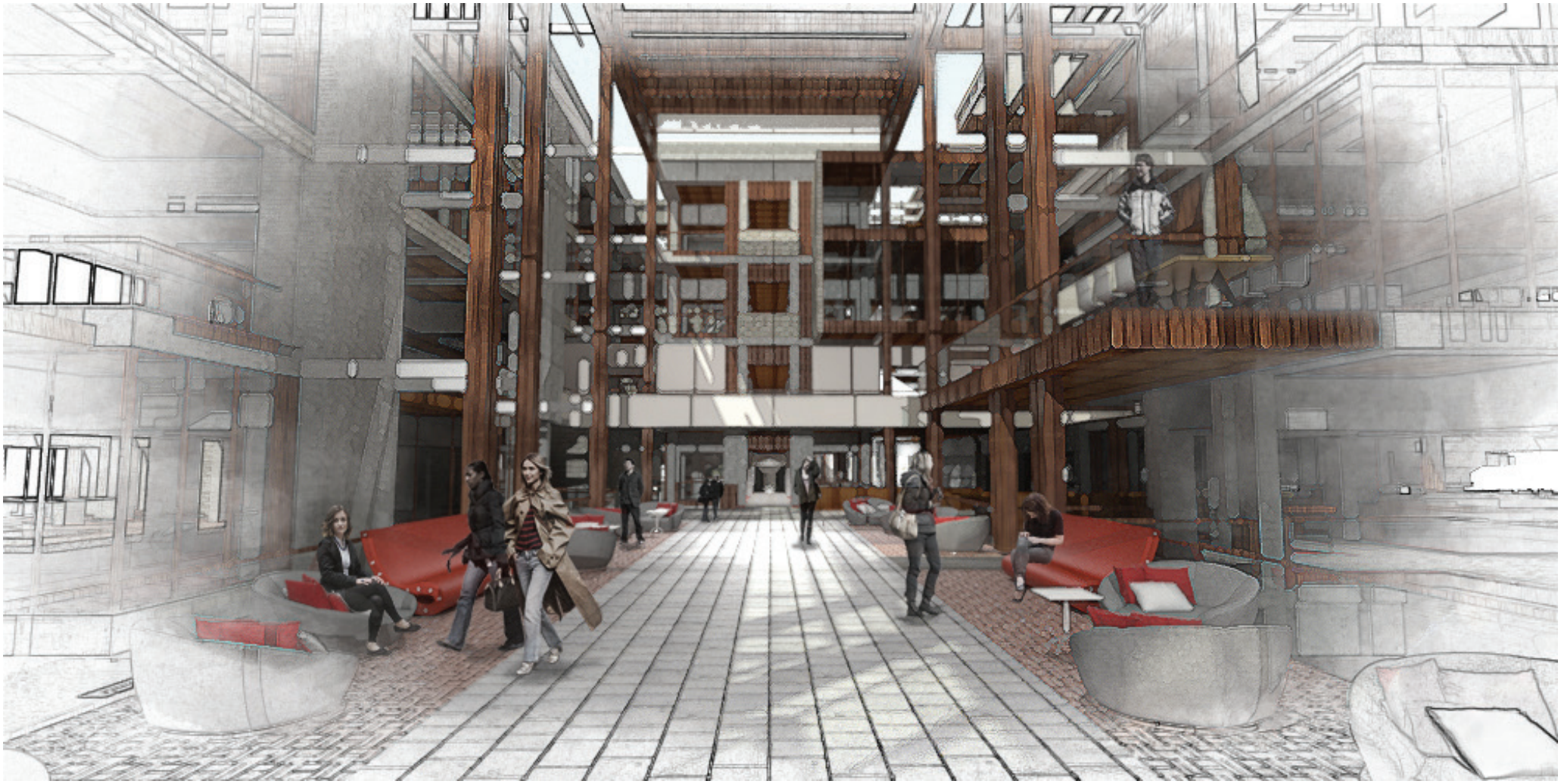




keeping the intension of inner street, breaking the existing form

different types of inner streets



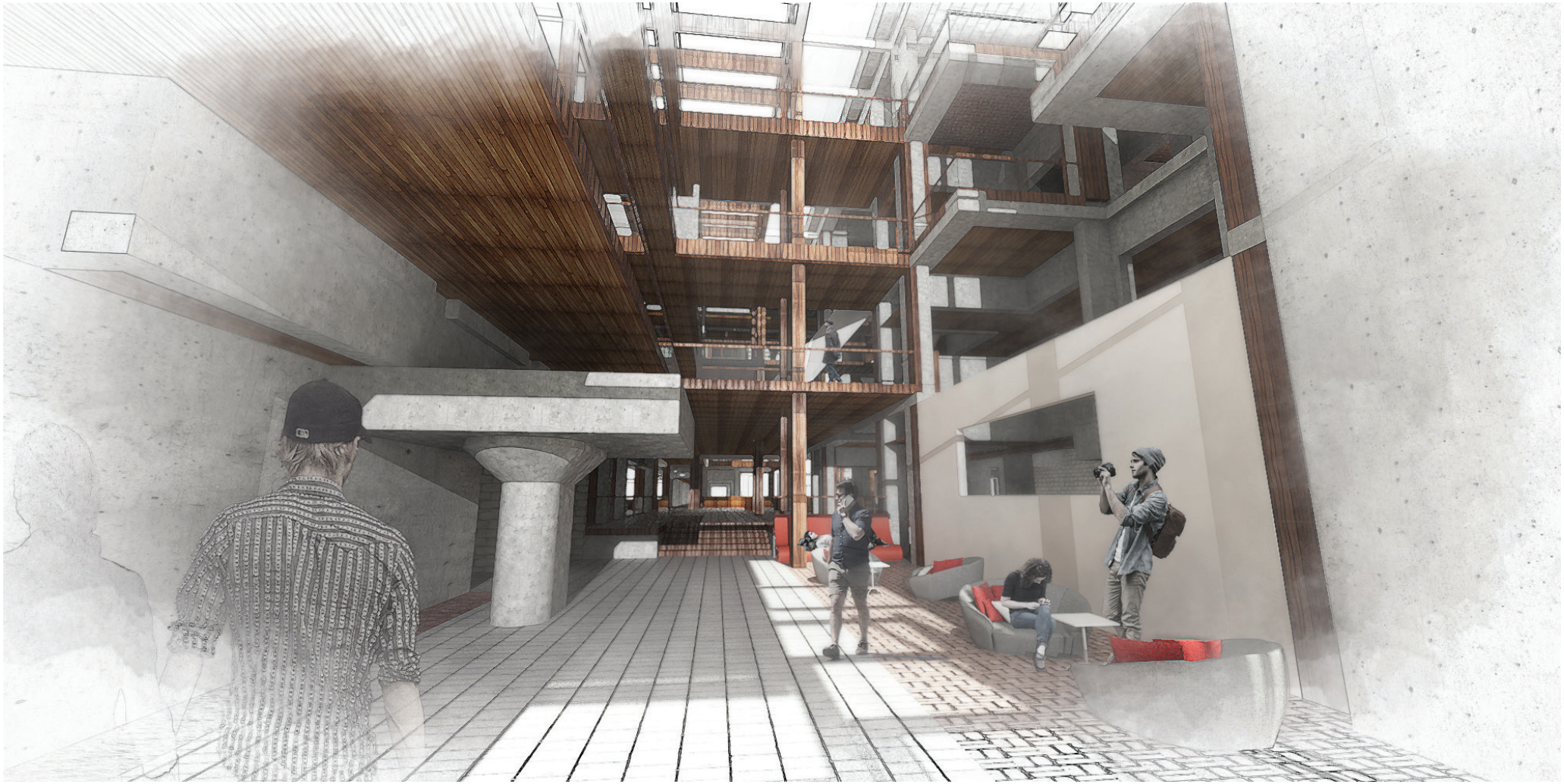


1. North

the main entrance

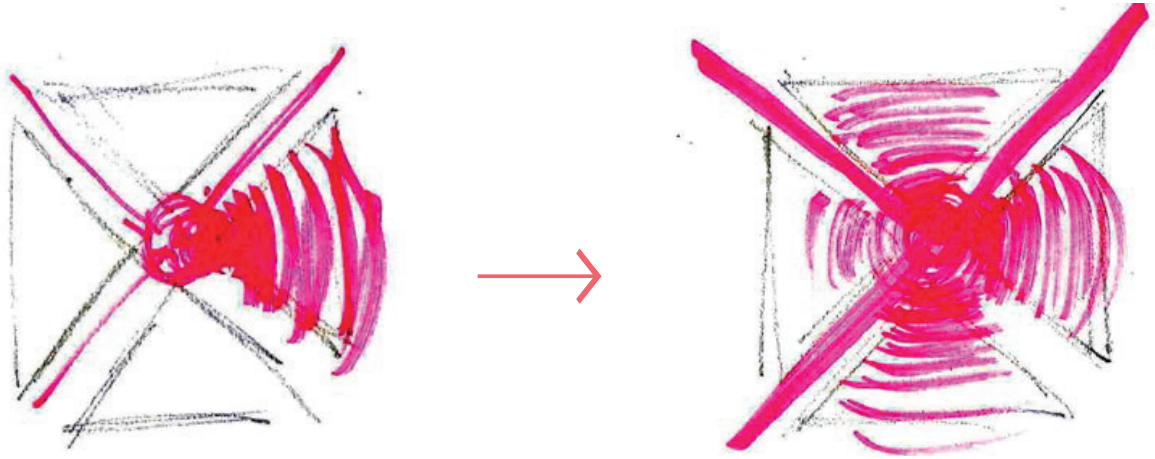
2. West

the street with greenery



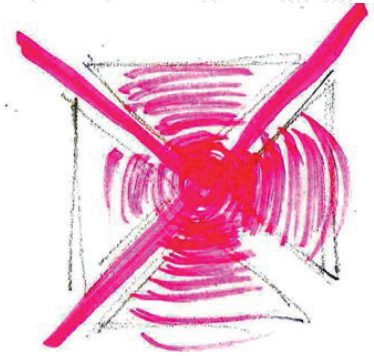
3. South

more alley-like street



museum
zone

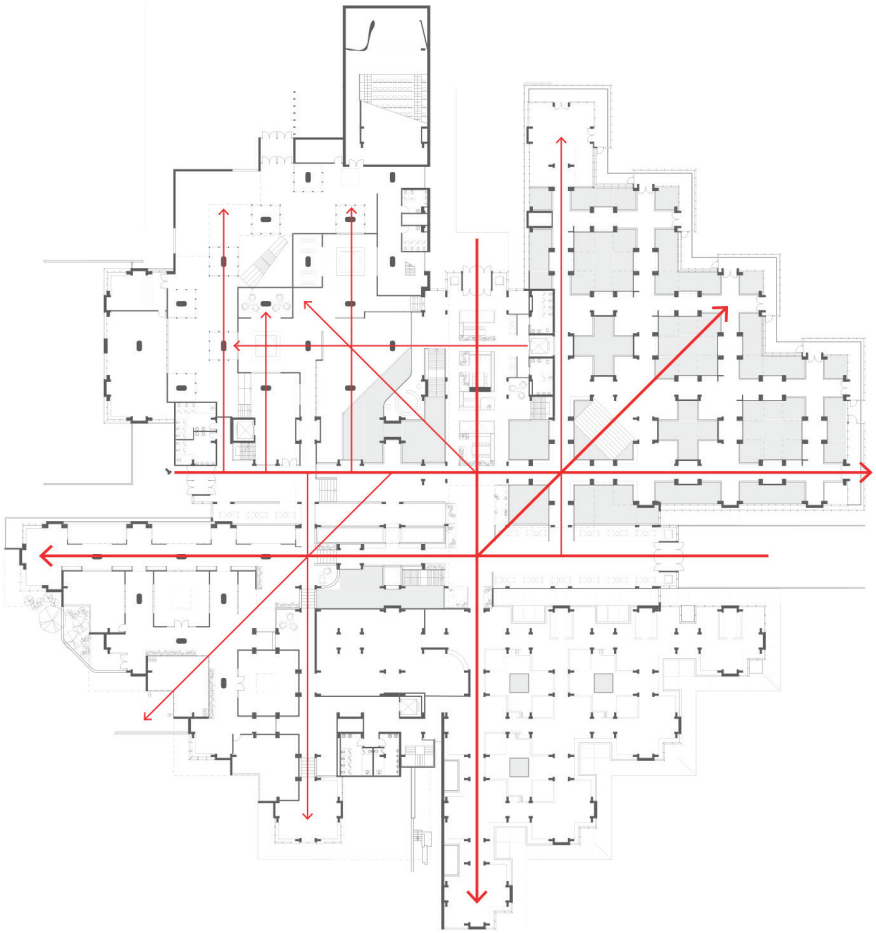
retail
zone



restaurant
zone

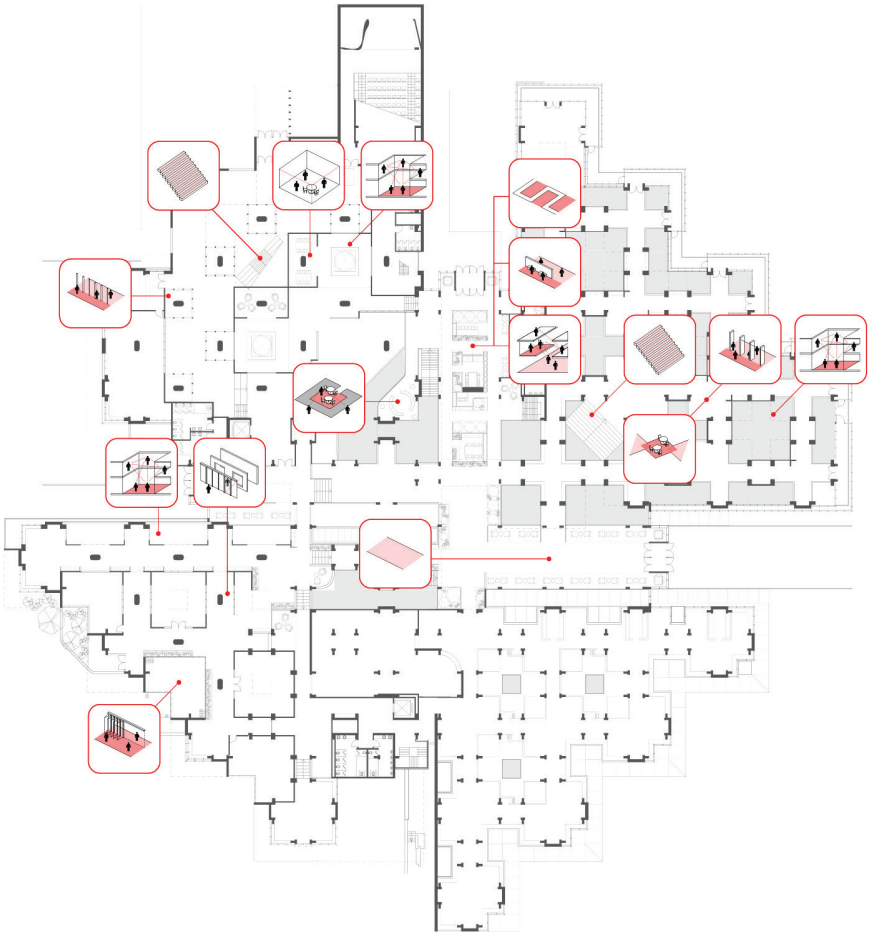
workshop
zone

make people to permeate to the pubiic functions

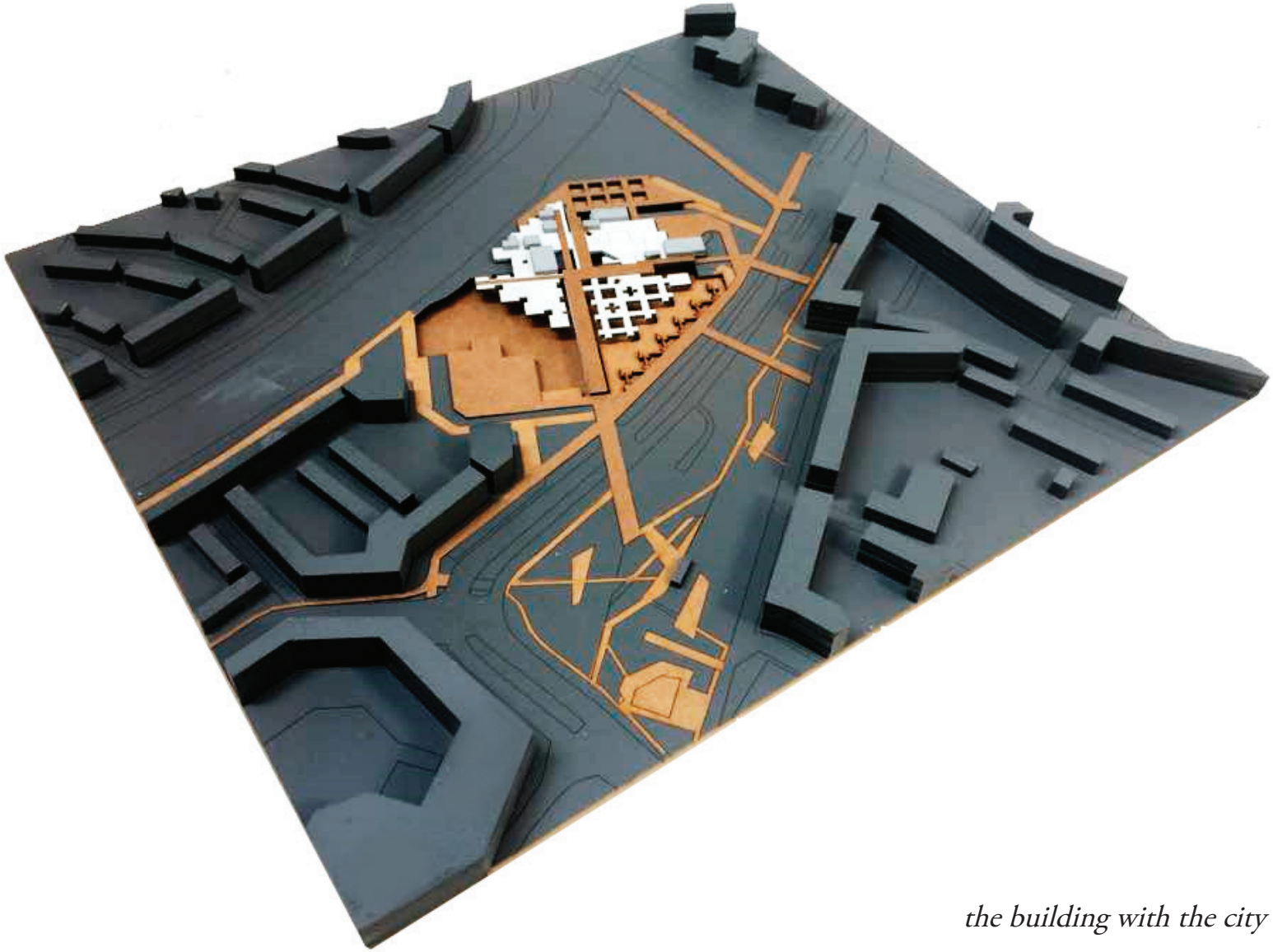


visual connection

N



spatial elements for interaction



the building with the city

Intro

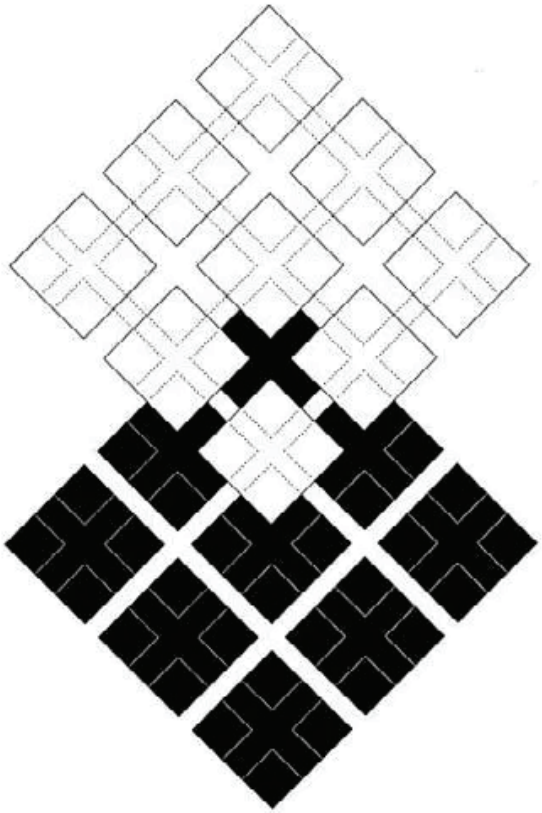
In-Between; Research and Design

In-between; the City and the Building

In-between; the Space and the Function

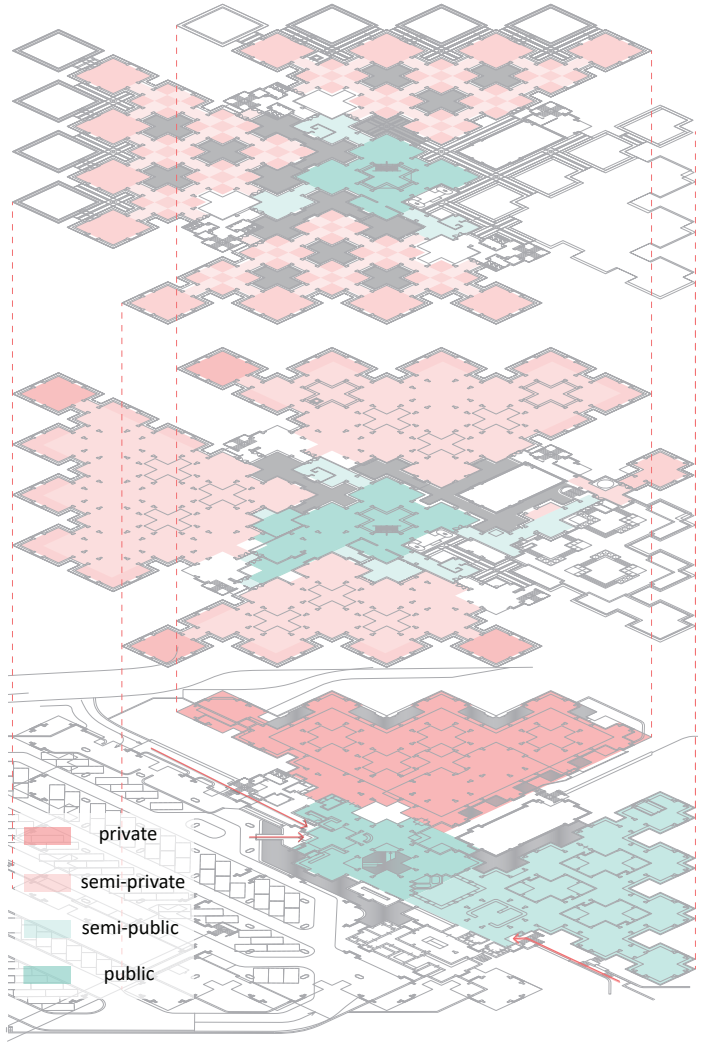
In-between; the Design and Comfort

Conclusion



existing spatial value

module system and in-between void space



existing spatial value

public to private

Interior

- **Way of study**: individual work & group work. require large workplace for model making. 10m2 per a student
- **Influential aspect**: light -, ventilation O, noise -, individuality -
- **Required space:** design studio(189m2 X 2), seminar(81m2), model making room(189m2, 108m2), storage(27m2) / **total 783 - 800m2**
- **Required facilities**: wood/metal workshop, 3D printing, print shop (prefer close, but not necessary)
- **Extra:** require large gray zone for work(ex. wide corridor) is needed. This space should be distinguish from other area(NOT DIVIDE)
- **Appropriate location**
    - Model making room should be well ventilated
    - Could collaborate with product design (sharing similar facilities)
    - Making model do not have any of problem with noise, but design room should kept from noise

Fashion and Textile

- **Way of study**: mostly individual work. requiring large individual workplace per person. 8-10m2 per a student
- **Influential aspect**: light -, ventilation O, noise -, individuality -
- **Required space:** studio(189m2 X 2, 108m2 x 2), seminar(27m2), storage(27m2), knitting and weaving room(189m2) / **total 837m2**
- **Required facilities**: knitting and weaving room (necessary)
- **Extra:** knitting and weaving could also be used by other departments so that it should be apart from department's house
- **Appropriate location**
    - Whole studio should be well ventilated
    - Could collaborate with photograph (should take a picture in studio)
    - Doing design and working at the same place, so noise care should be regarded
    - Corridor space could function as a runaway. So considerate design could improve the spatial quality

Graphic Design

- **Way of study**: individual work & group work. Flexible space could work. Usually working with laptop. 6-8 m2 per a student
- **Influential aspect**: light -, ventilation -, noise -, individuality
- **Required space:** studio(189m2 X 2, 81m2), group seminar(81m2), storage(27m2) / **total 567m2**
- **Required facilities**: print shop (necessary), silkscreen (prefer close)
- **Extra:** print shop could also be used by other departments so that it should be apart from department's house
- **Appropriate location**
    - Could collaborate with photograph (photograph could also regarded as one of graphic art)
    - Flexible use of individual-group work so that noise is not a strong issue. Or could collaborate with study cells in General area

Photograph

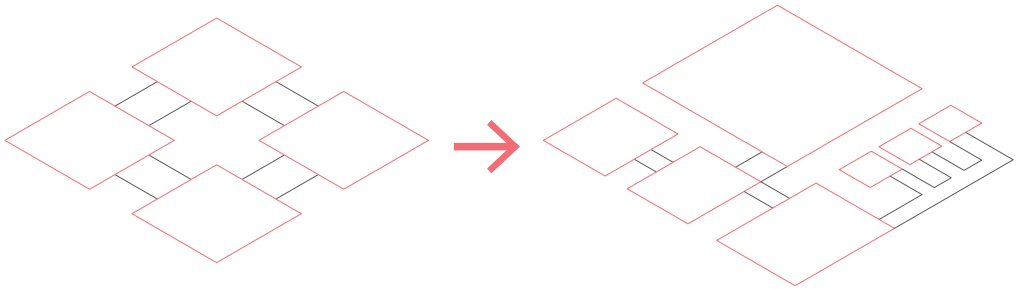
- **Way of study**: photo studio work. Mostly working in studio.
- **Influential aspect**: light O, ventilation O, noise -, individuality O
- **Required space:** photo studio(160m2 x 2), seminar(81m2 x 4), computer room (81m2), group seminar(81m2) / **total 486 + 320m2**
- **Required facilities**: photo studio (necessary), print shop (prefer close), darkroom & storage(no need to be close)
- **Extra:** photo studio could also be used by other departments. It could be function as a hub space for all of departments
- **Appropriate location**
    - Could collaborate with graphic art (photograph could also regarded as one of graphic art)
    - Also have to share huge print shop with graphic art

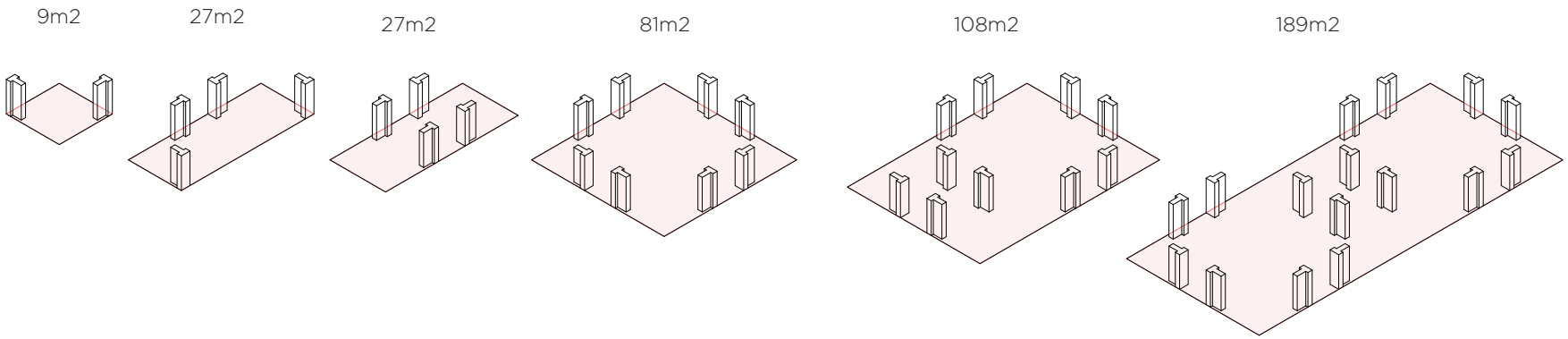
Fine Art

- **Way of study**: Individual work. No need for group working space. Tutoring is also working individually
- **Influential aspect**: light O, ventilation O, noise O, individuality O
- **Required space:** personal working space(45m2 per 3-4 students x number of students), storage and washing space (81m2) / **total 563m2**
- **Required facilities**: photo studio (necessary), print shop (prefer close)
- **Extra:** linear spatial organization is required. Group drawing work could be held in General seminar room
- **Appropriate location**
    - Should be side to 1. keep individuality and 2. ensure natural light
    - The area where a linear spatial organization is available

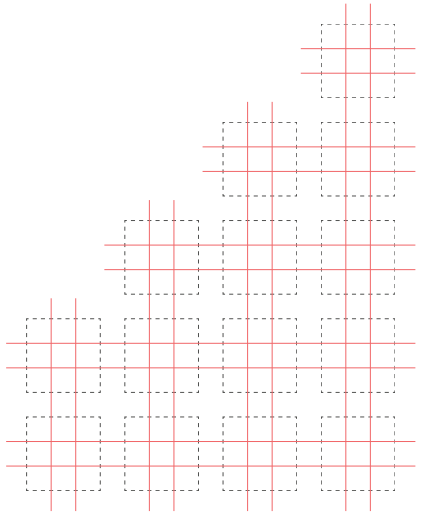
General

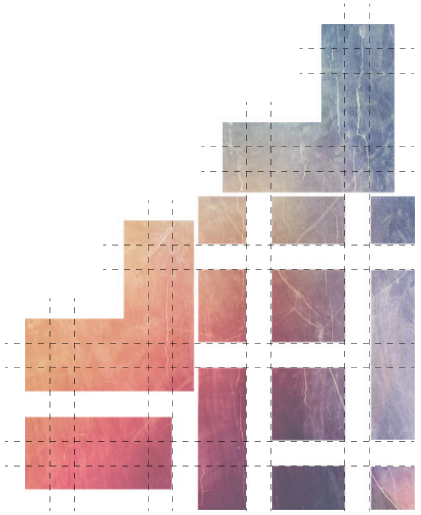
- **Study Space**
    - Auditorium / Lecture room / Library
- **General Facilities**
    - Wooden workshop
    - Metal workshop
    - 3D printing
    - Printmaking
    - Silkscreen
    - Equipment rental
    - Ceramic
    - IT room
- **Office**
    - Administration
    - School office / Teacher's room / Staff refectory
    - Student union



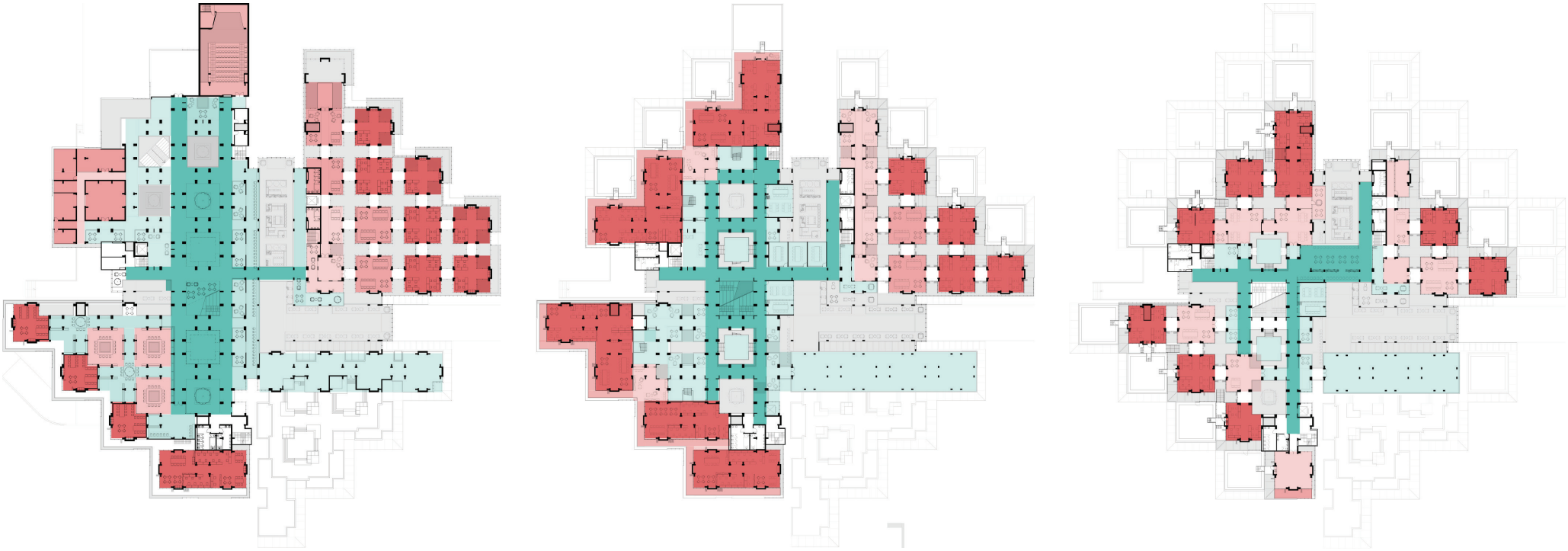


How to accomodate the new program into the existing building?

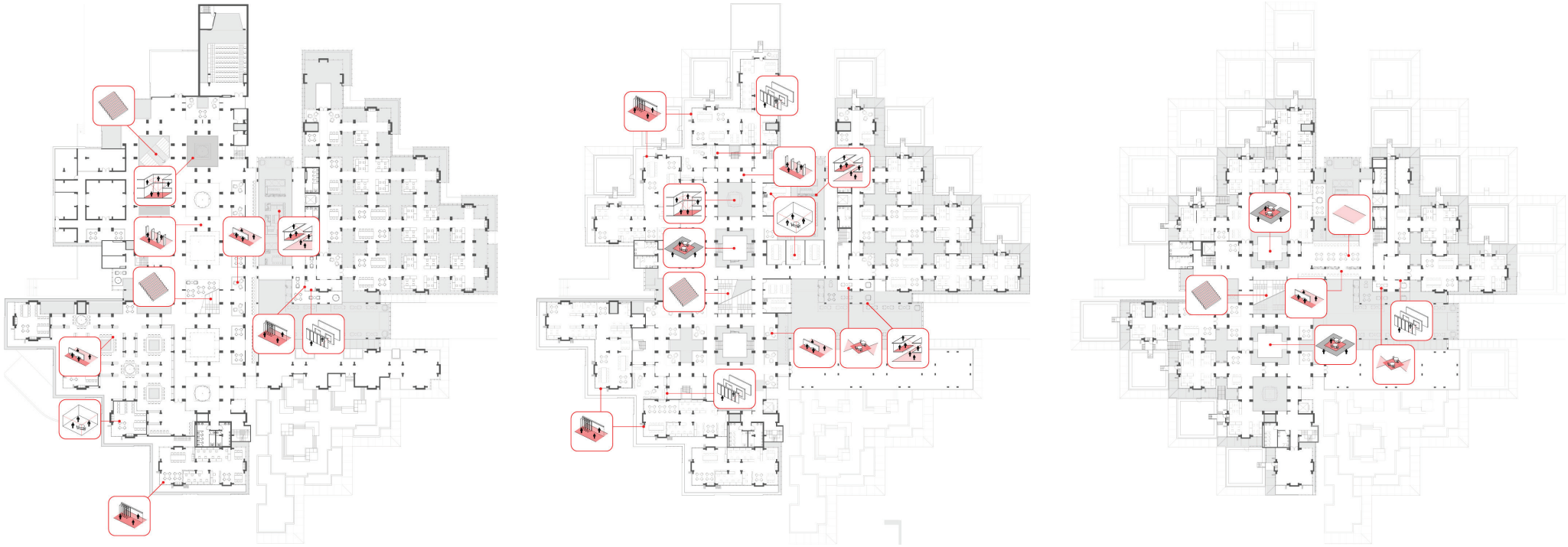




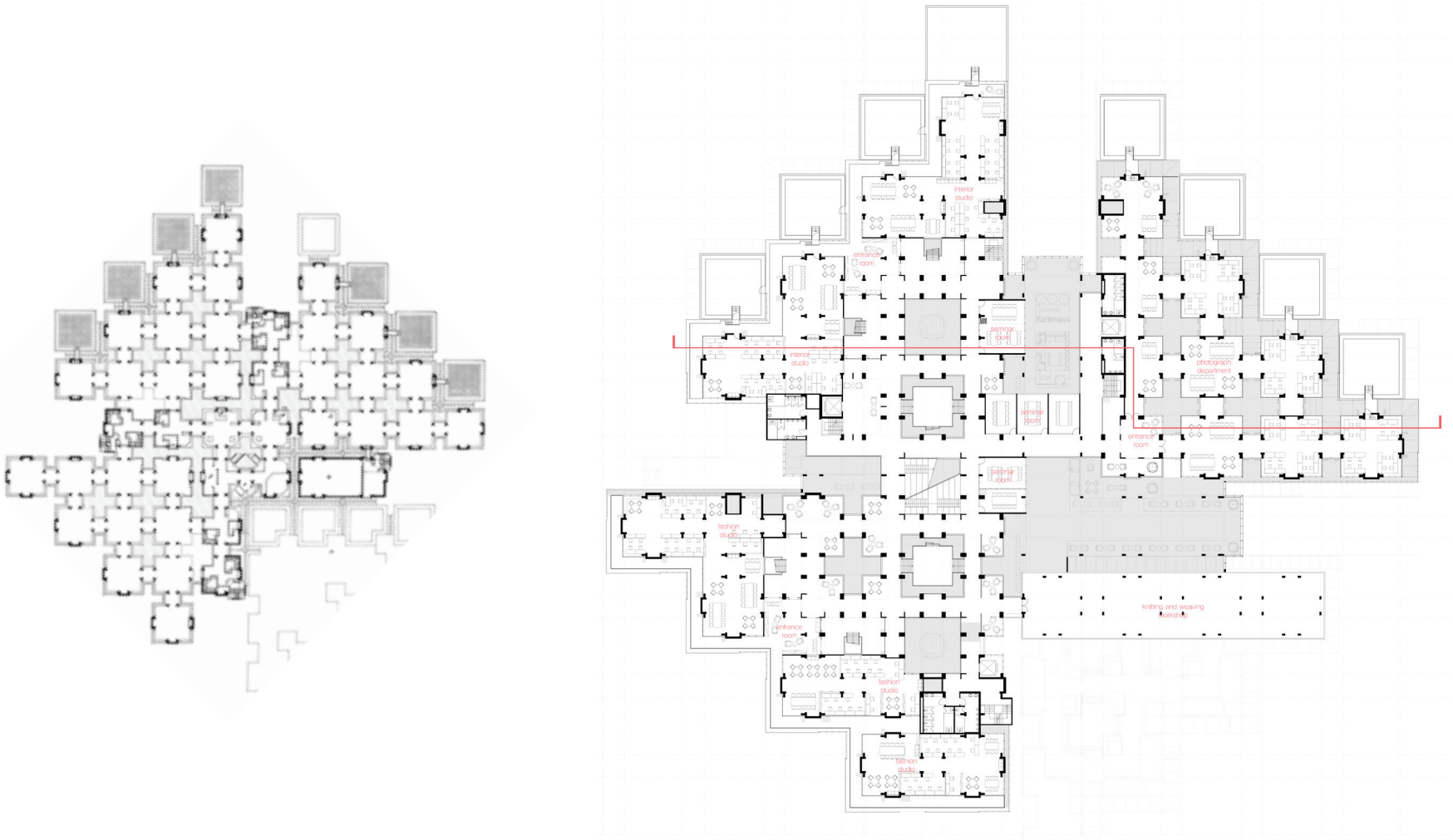
keeping the existing grid, breaking the existing module system



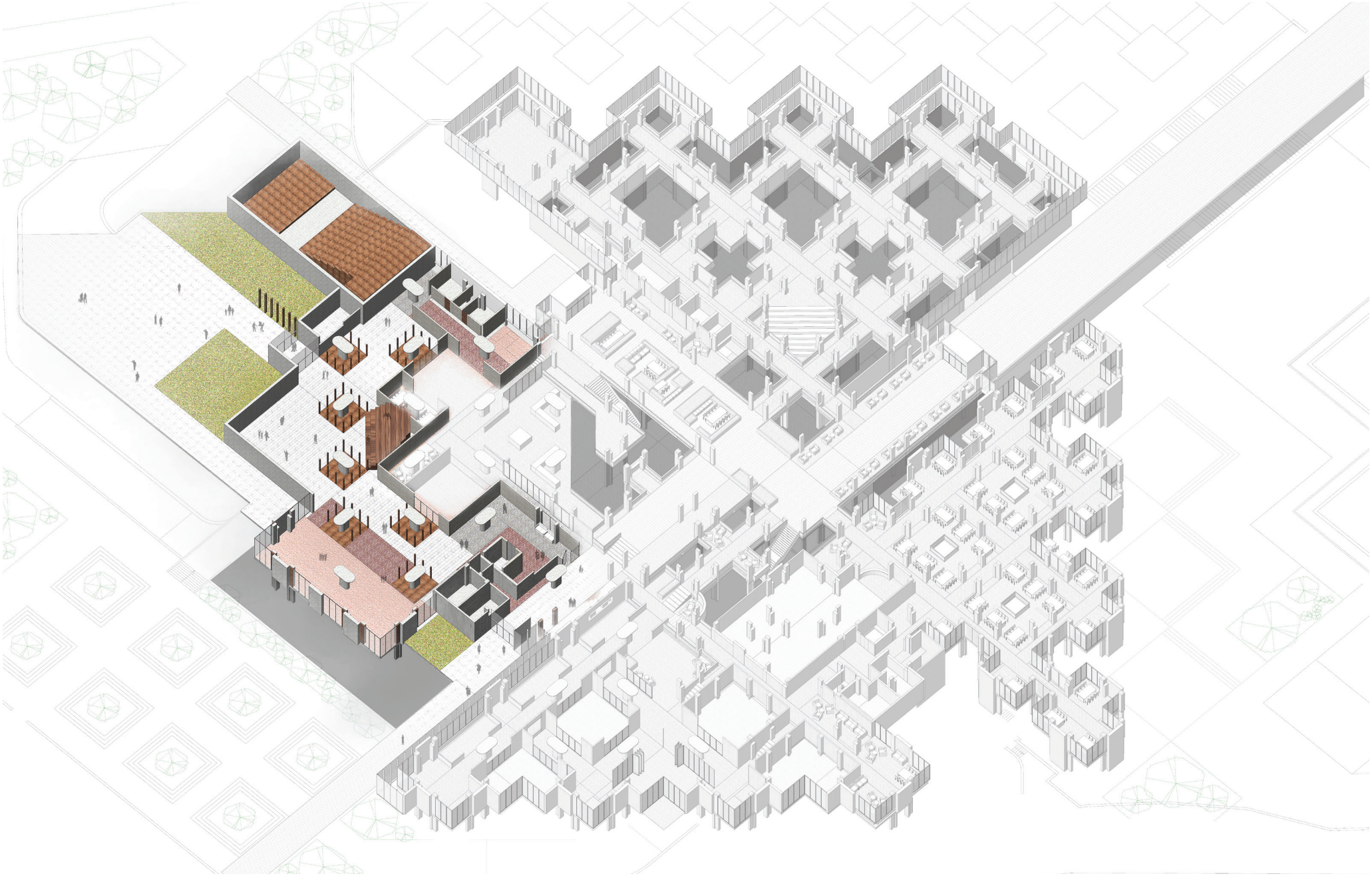
keeping the smooth transition while breaking the existing form



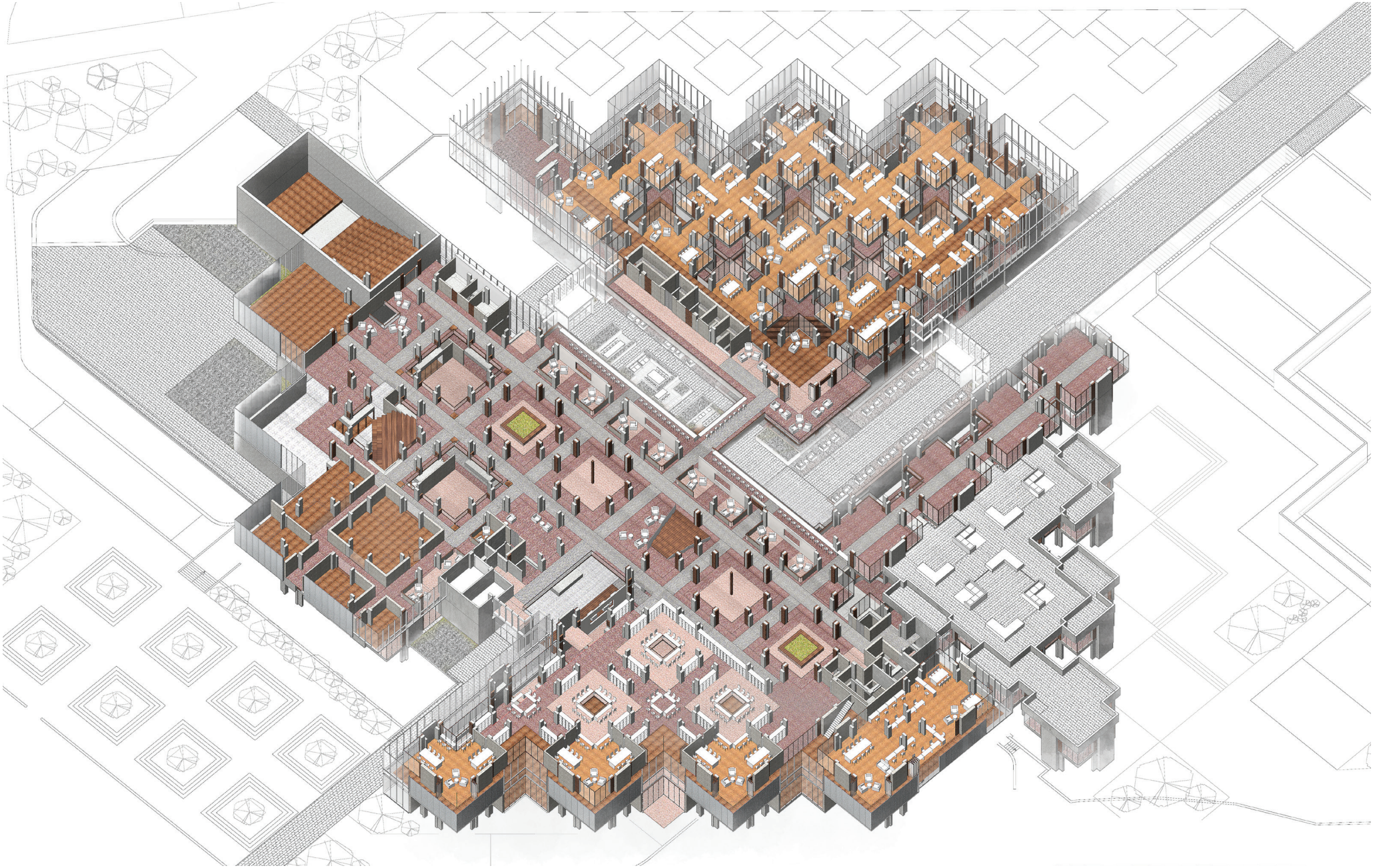
applying the spatial element for the interaction on the gray zone



reinterpretation of spatial organization through reusing the principle of Hertzberger

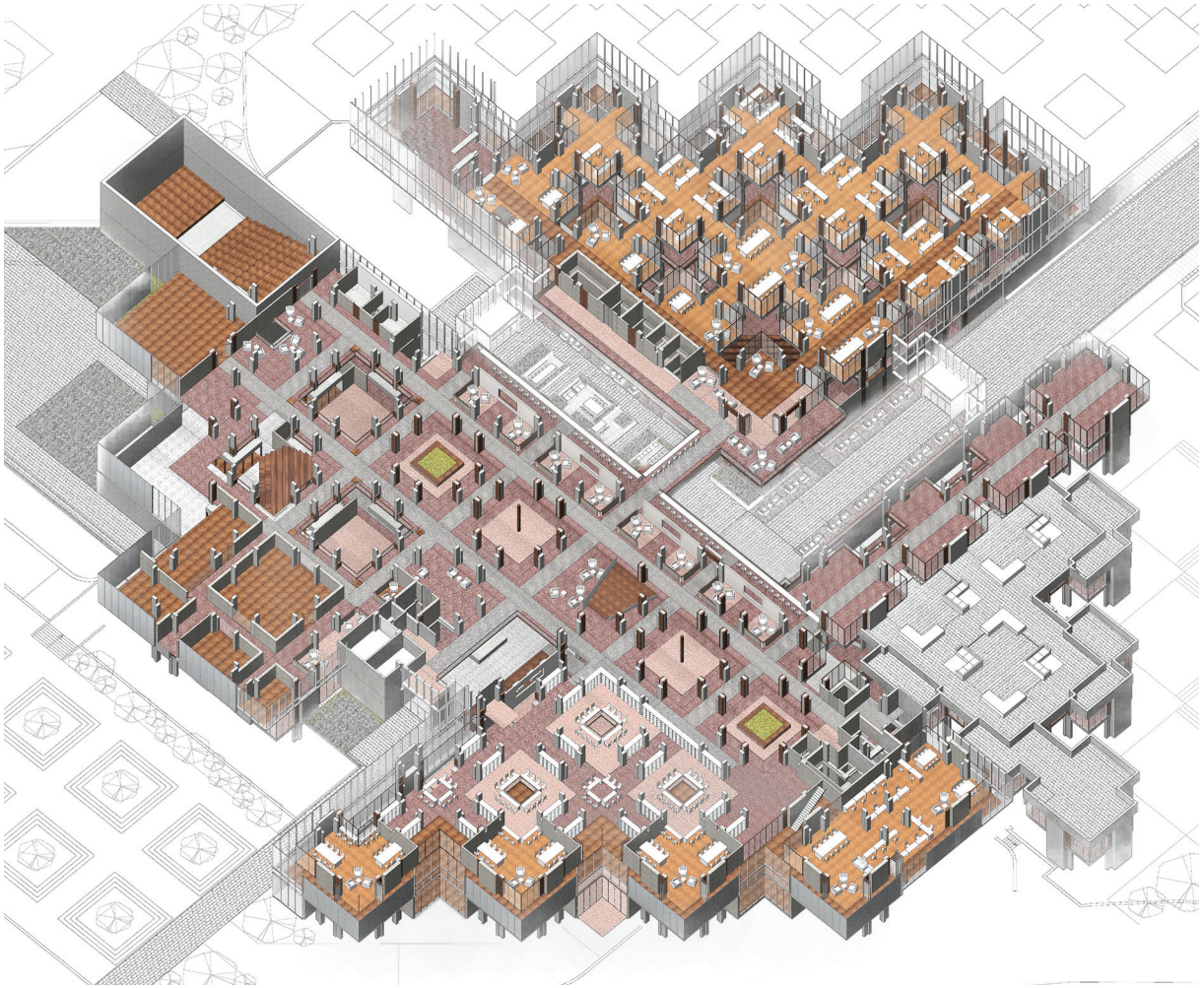


GL : Entrance to Art Academy



1F : public funcions for the students

Materiality



existing

concrete

gray brick

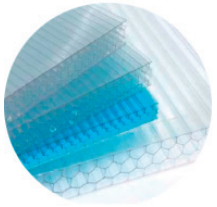
new

gray brick tile

red brick tile

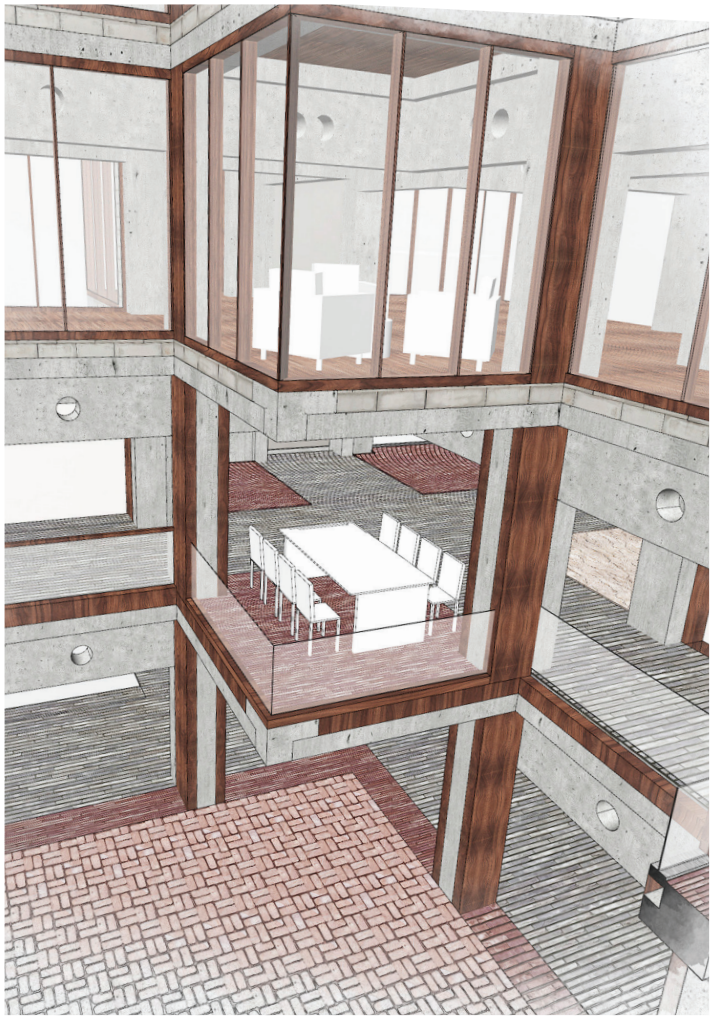
brick tile

wooden floor

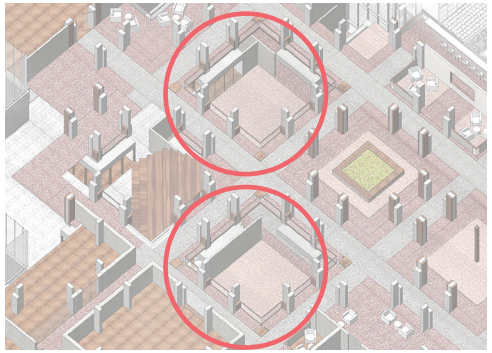


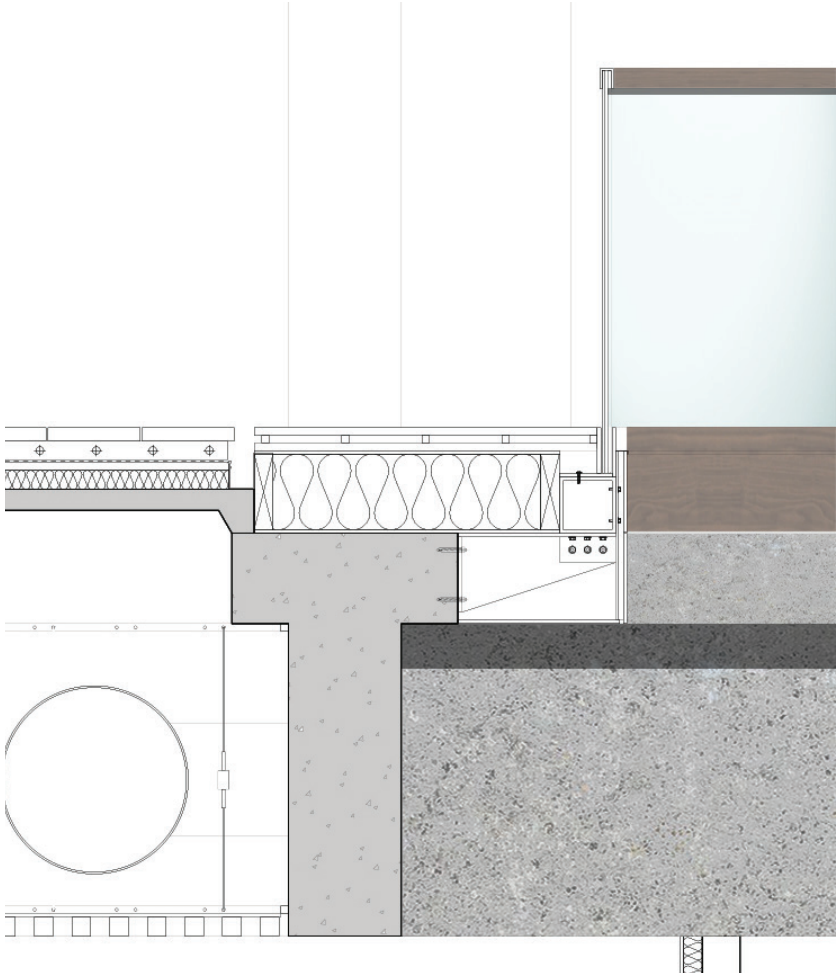
poly carbonate

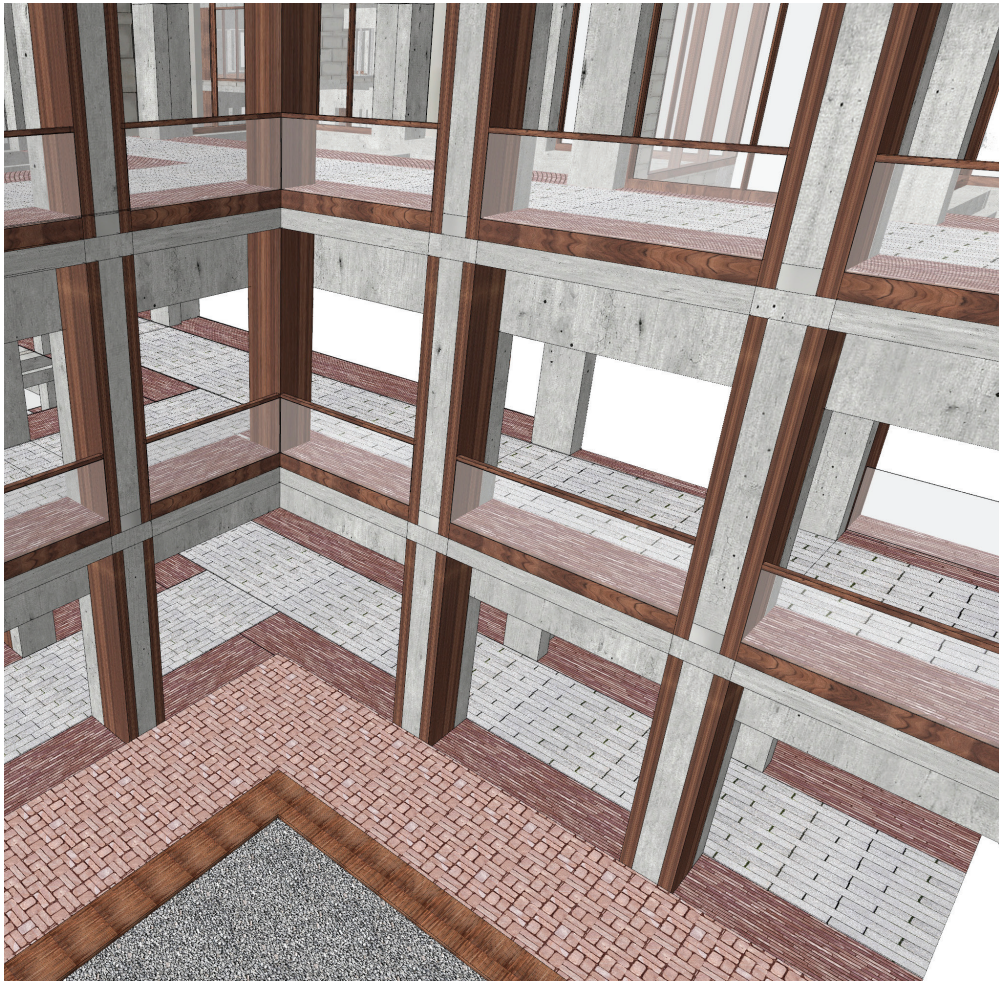
before



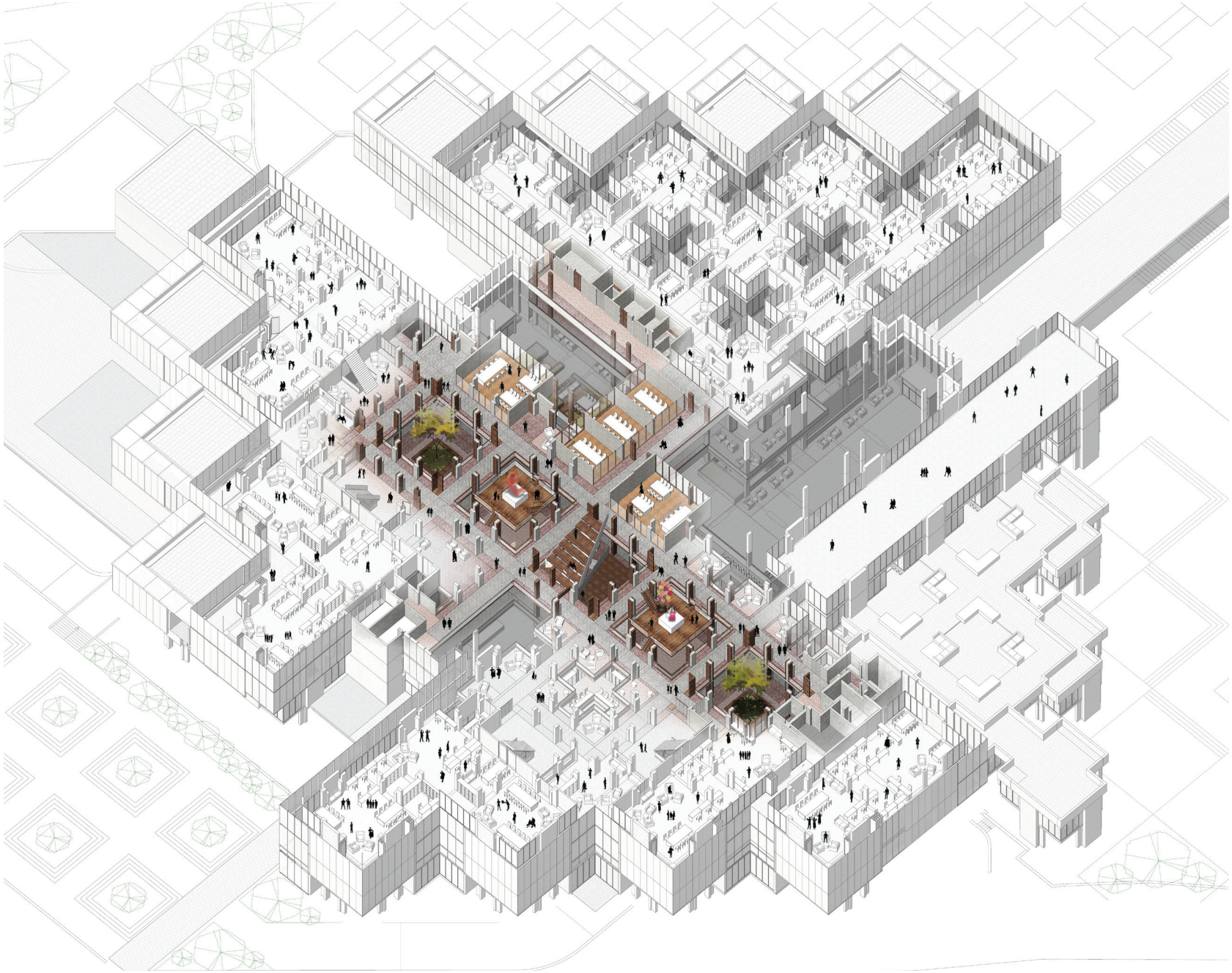
after



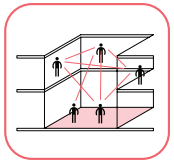


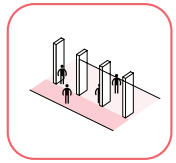


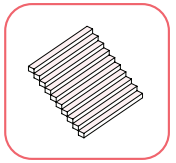
2F

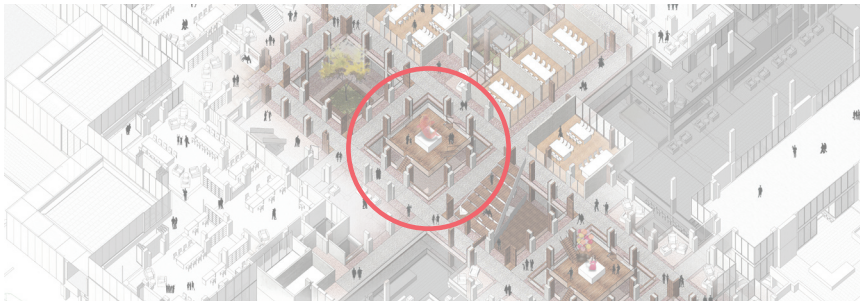


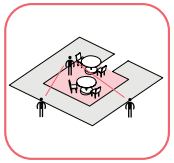
linear public area for easier way finding

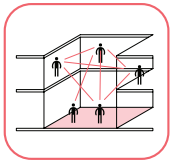


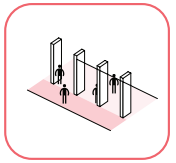


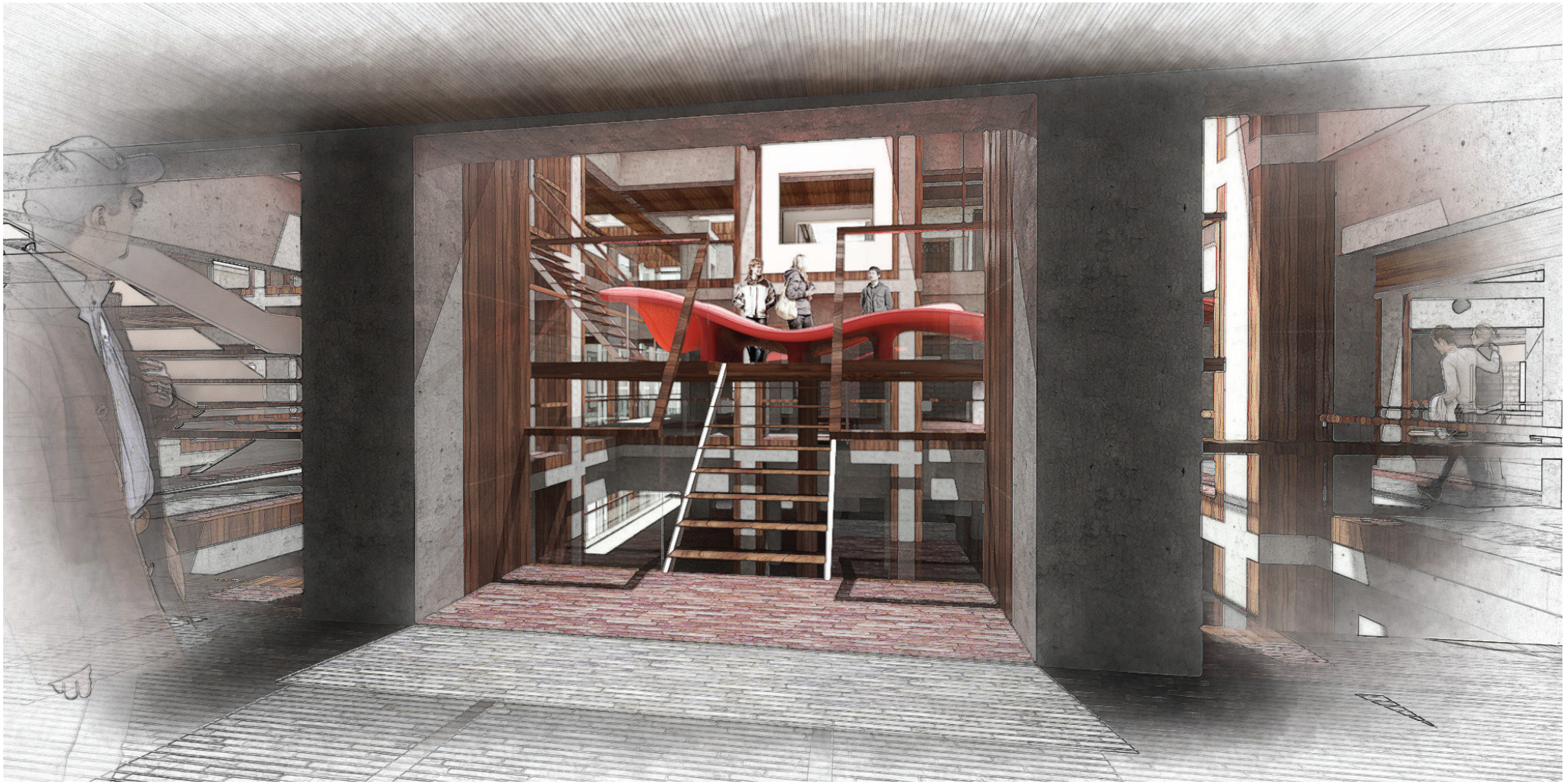


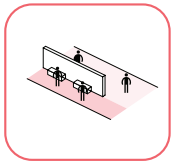


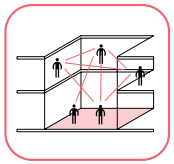


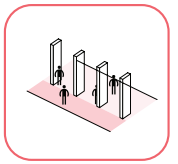


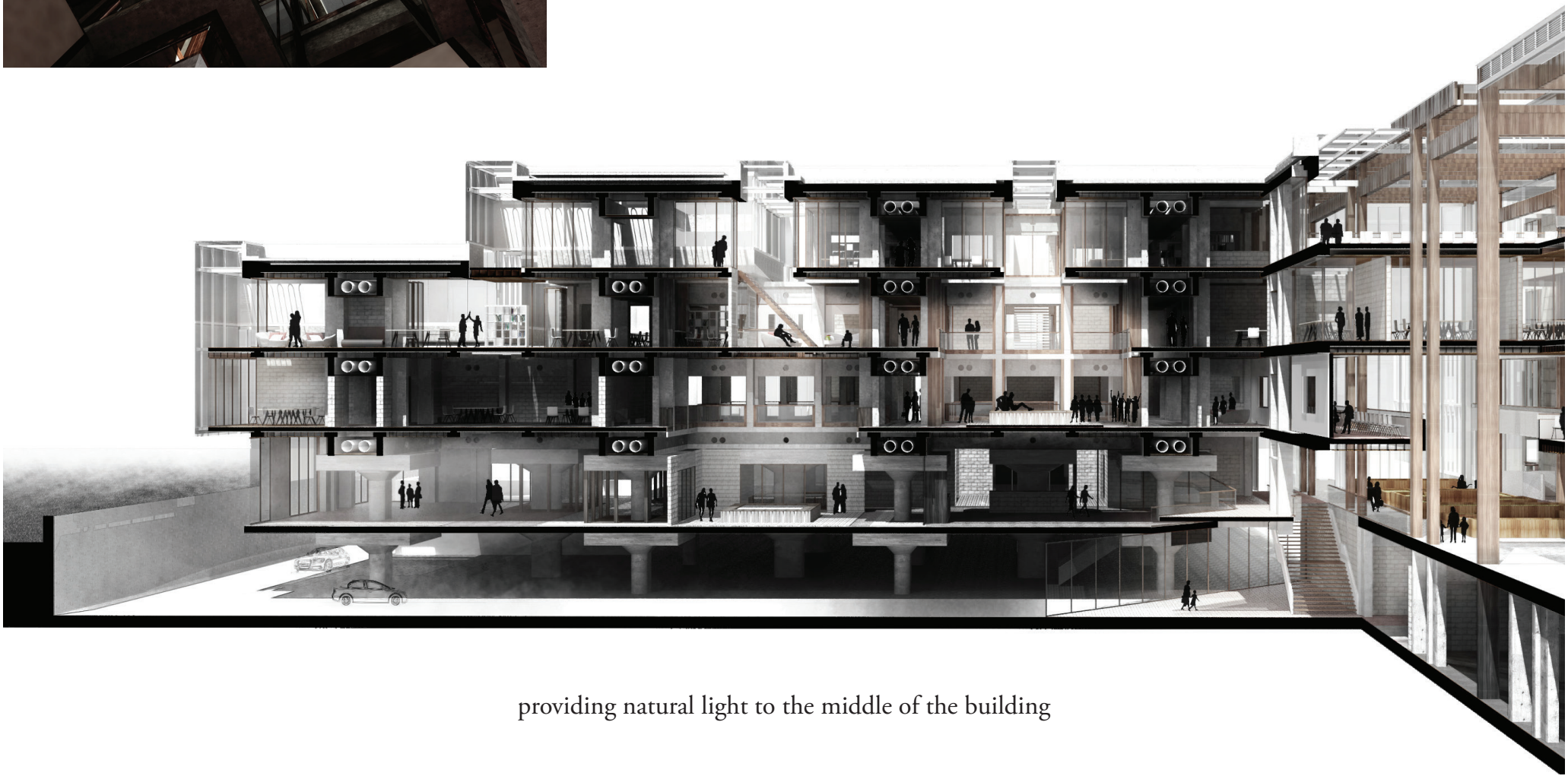




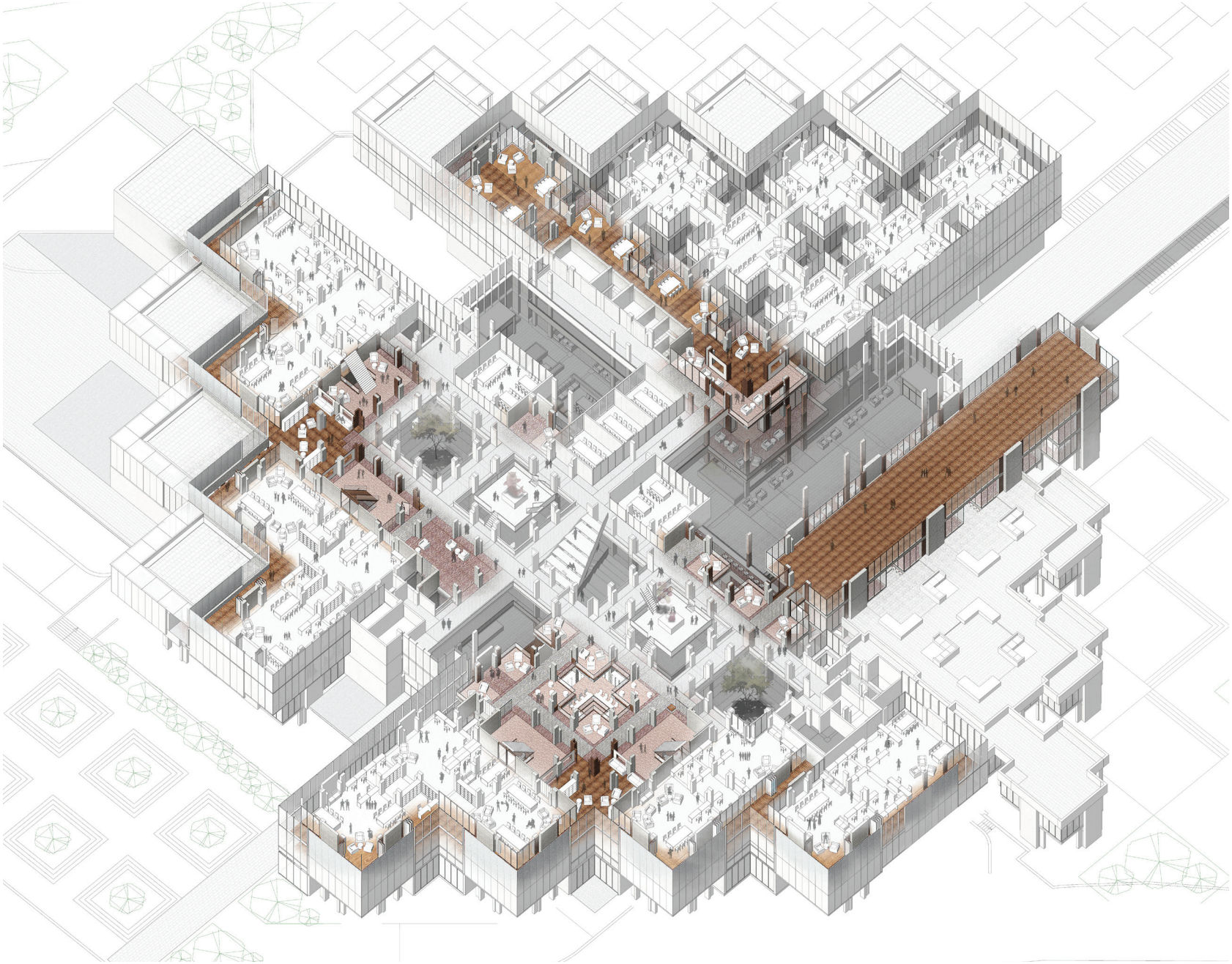




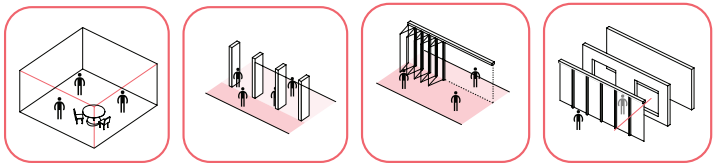


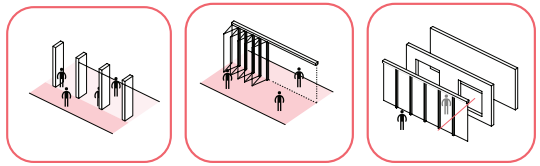


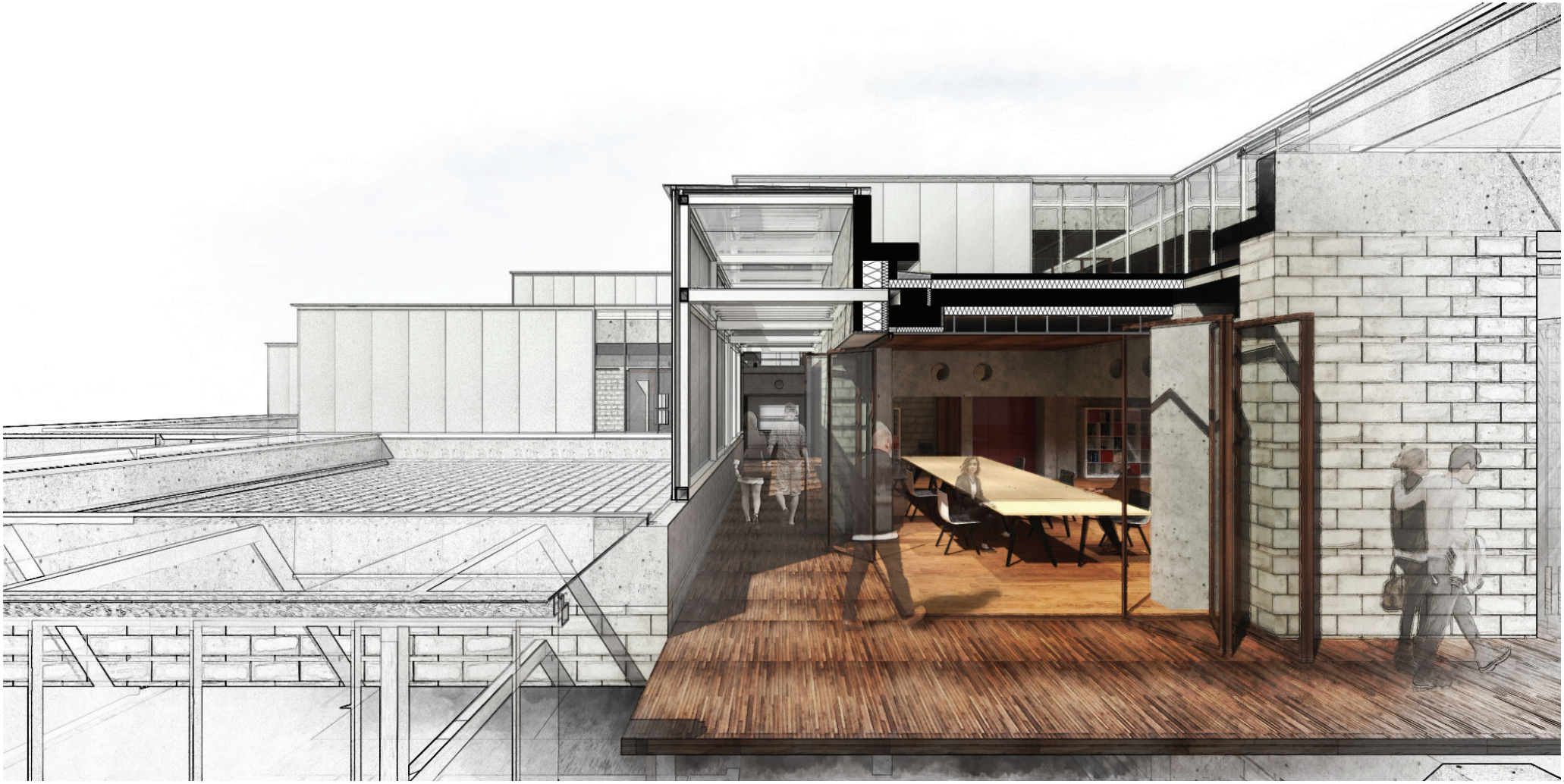
providing natural light to the middle of the building

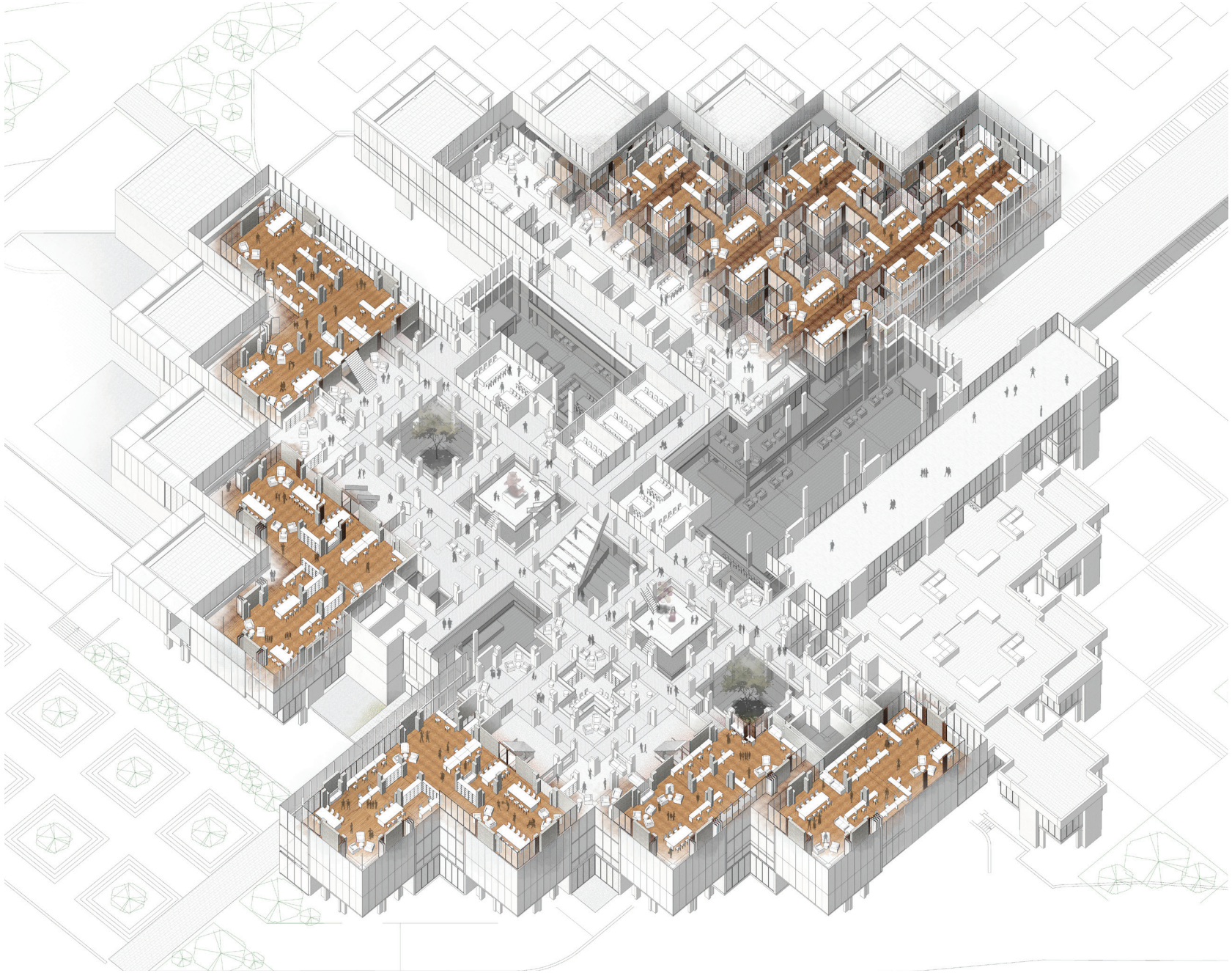


gray zone for flexible functions

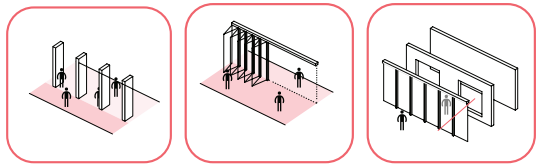








private studio for each of departments



the building like a city

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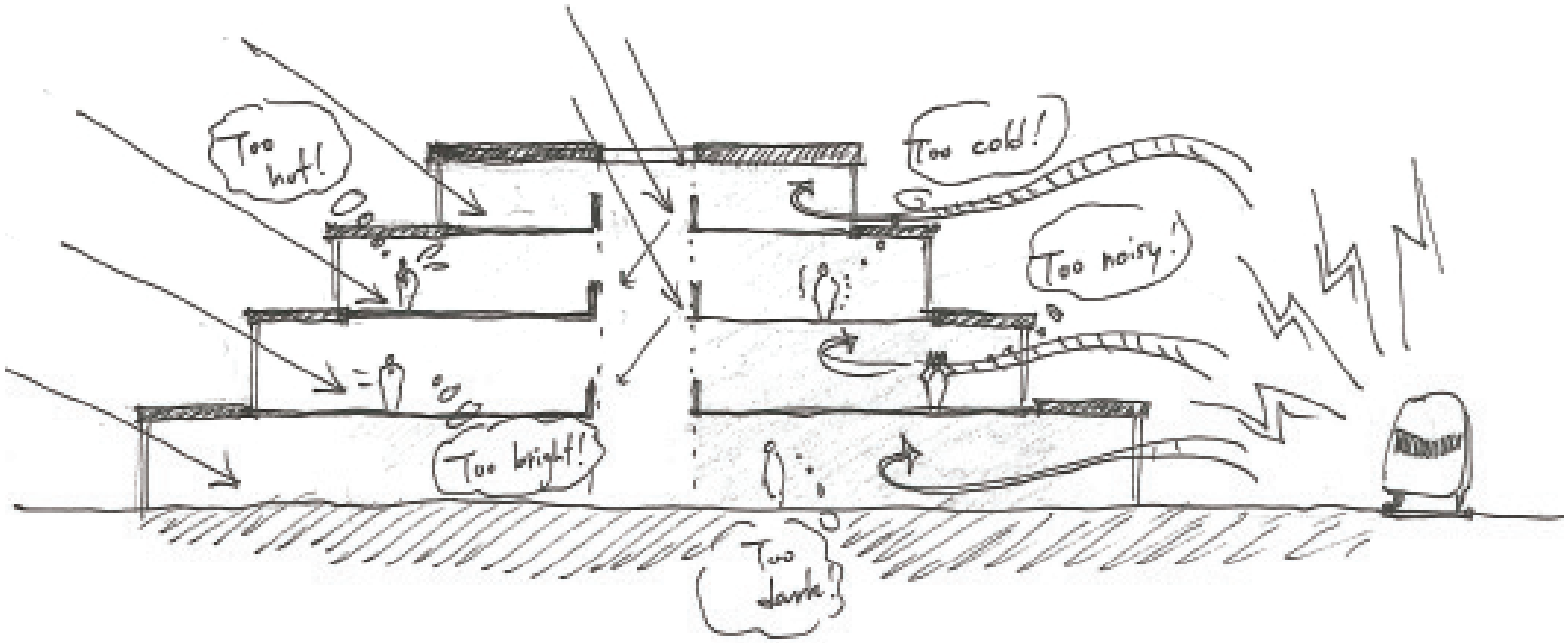
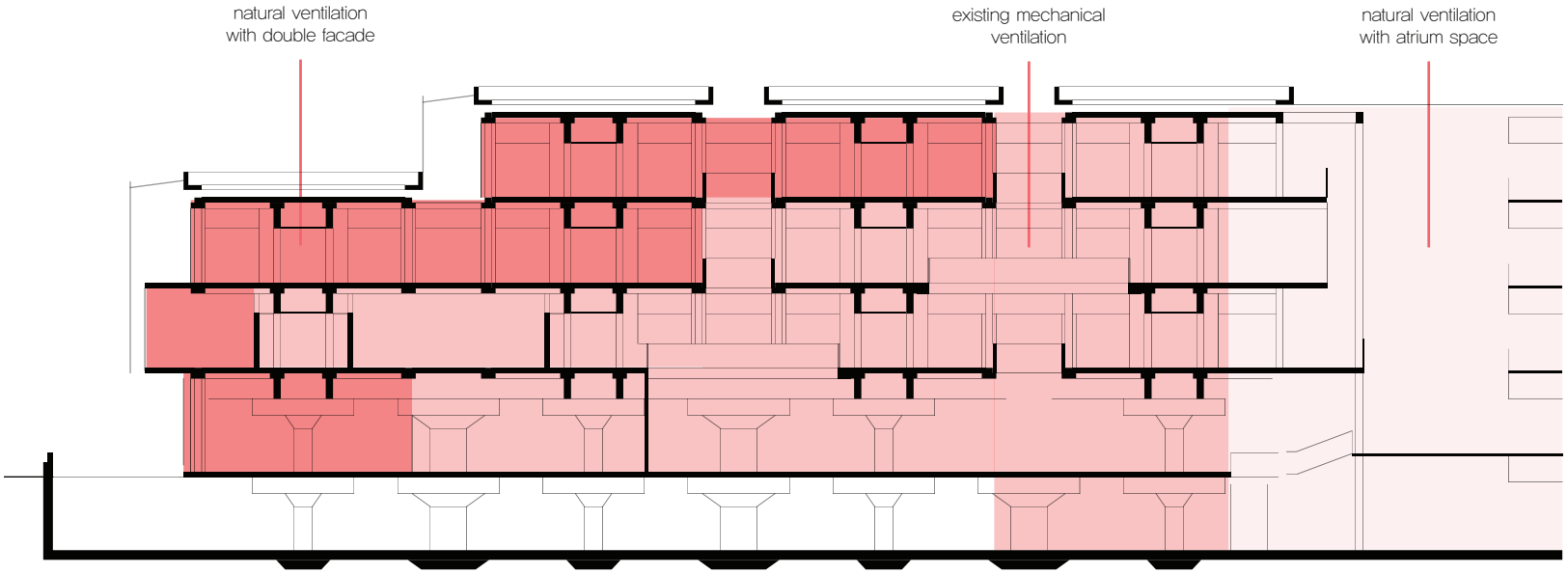
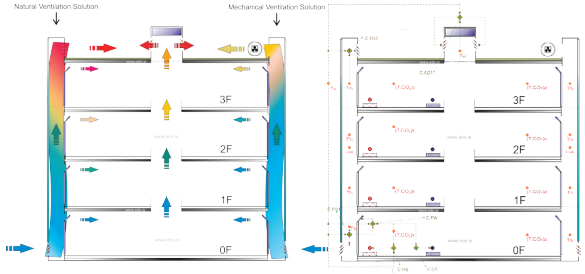
Conclusion



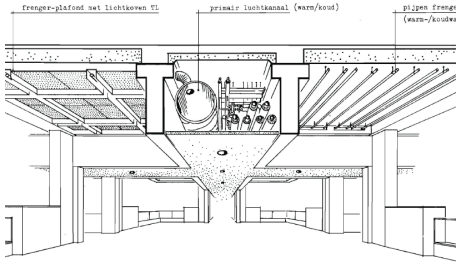
How to improve the comfort of the building while keeping its spatial value?

Climate Zoning

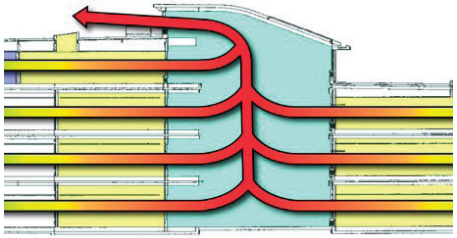




double facade

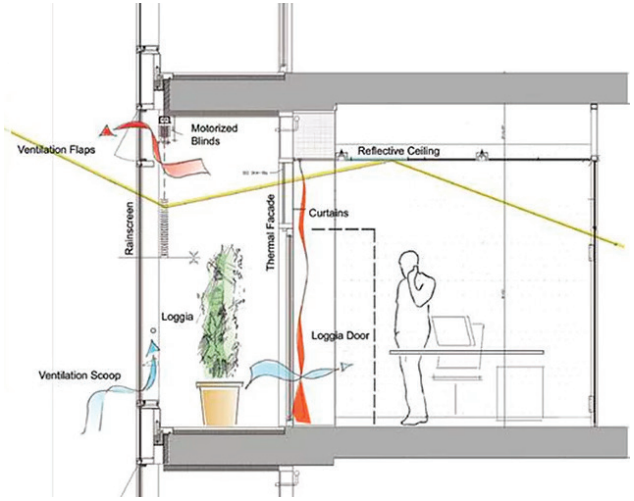


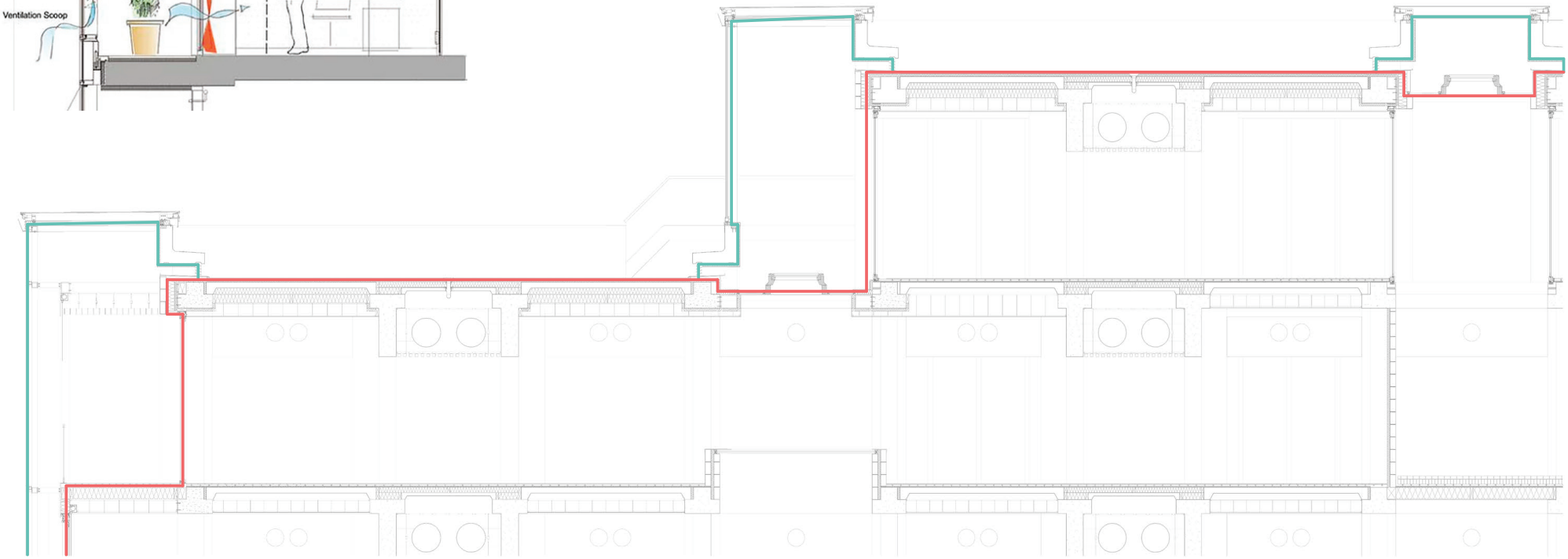
existing mechanical
ventilation

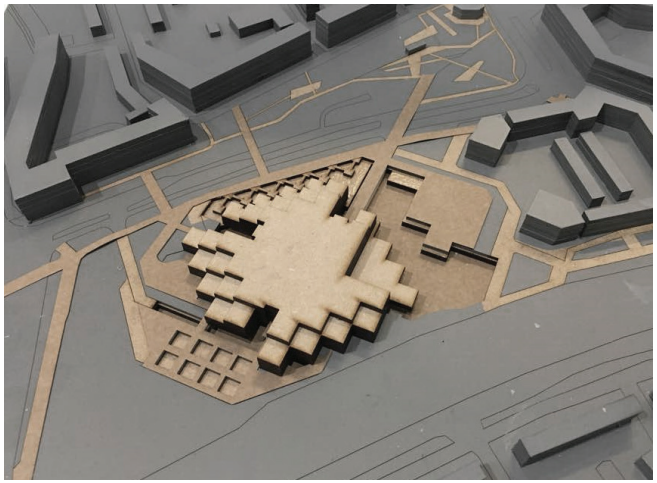


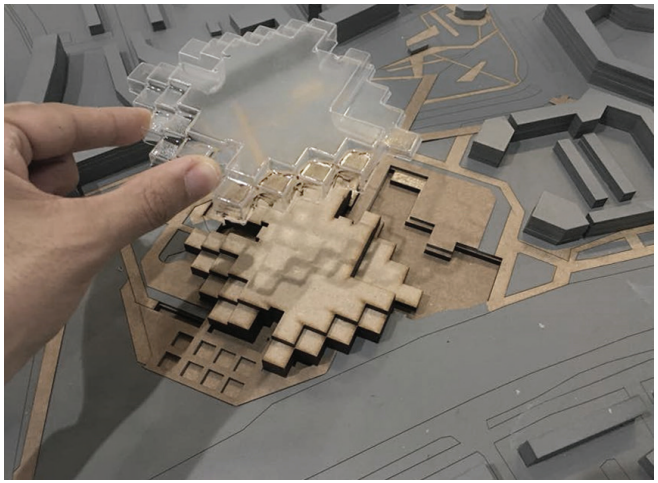
atrium

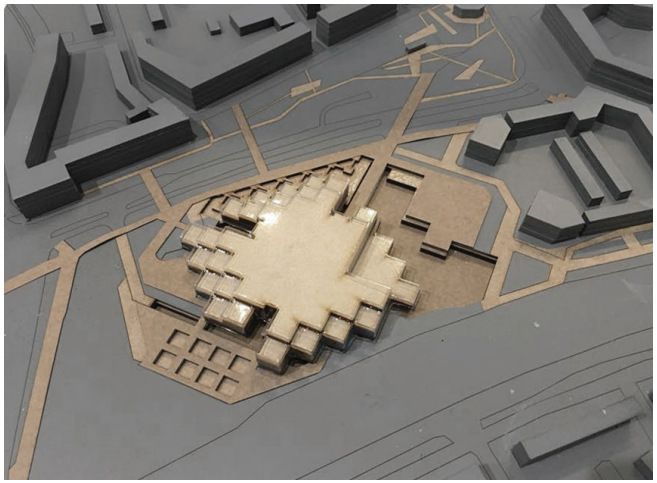
Double facade

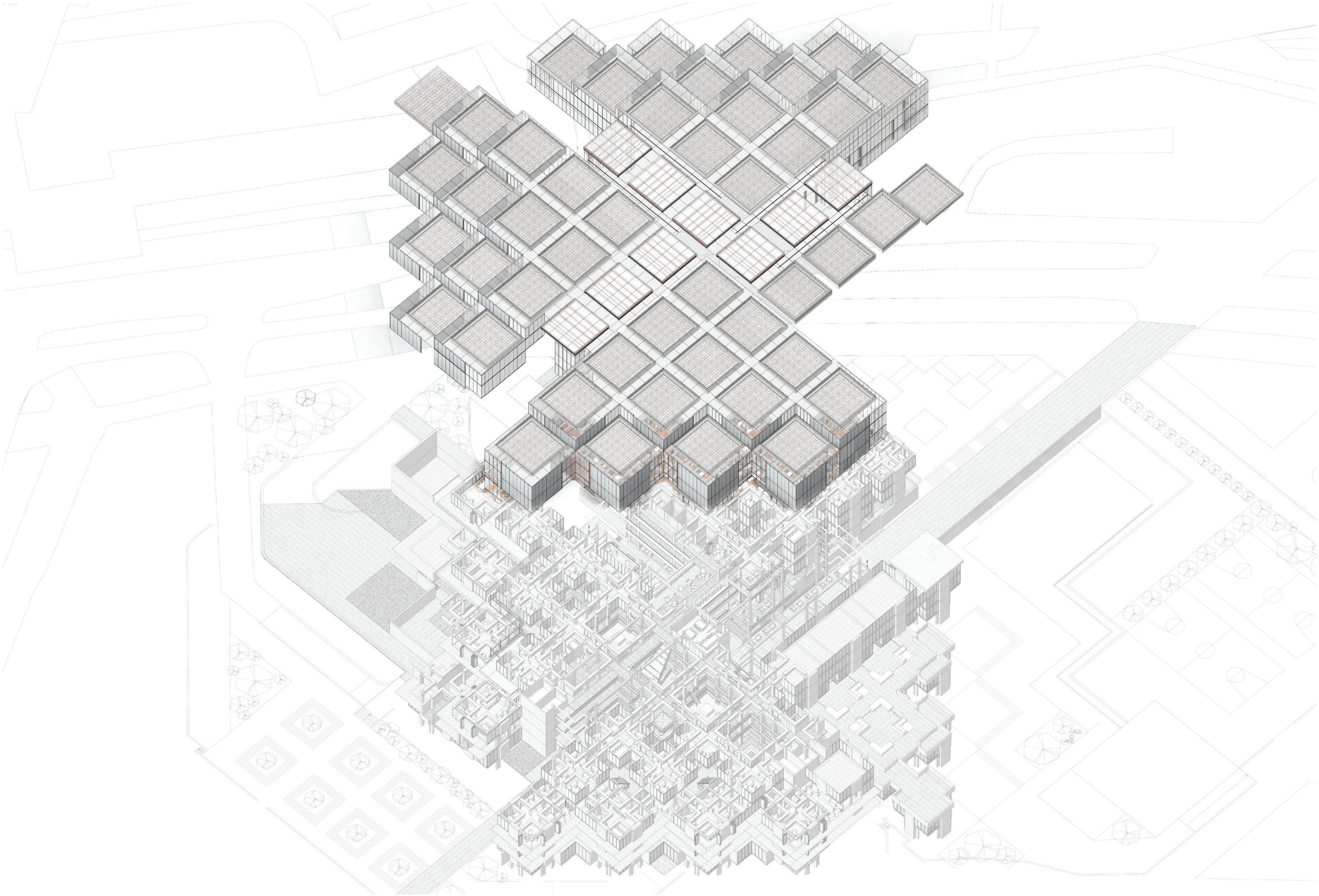




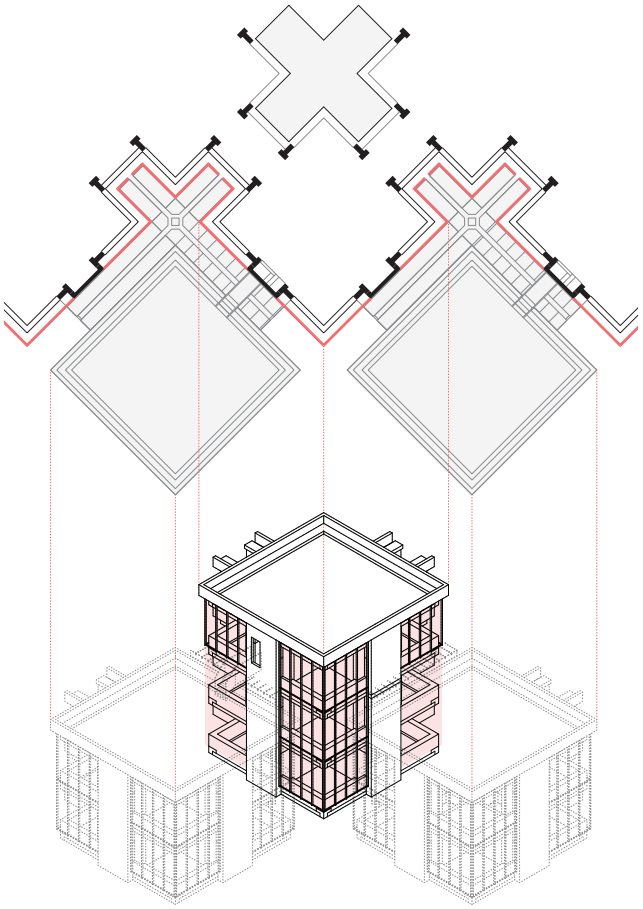






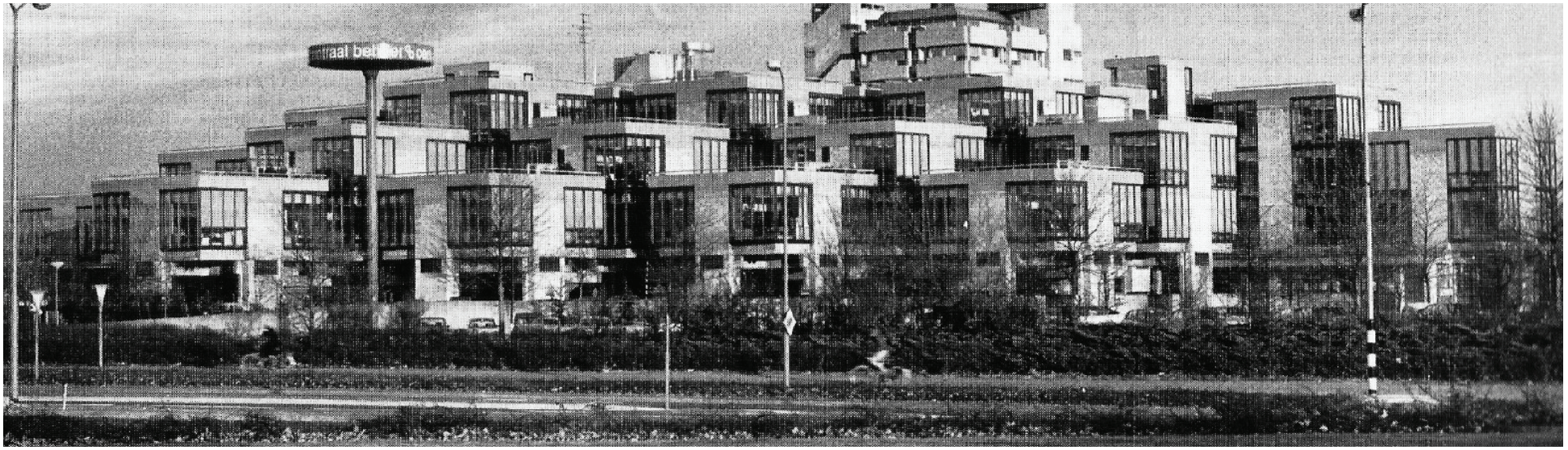


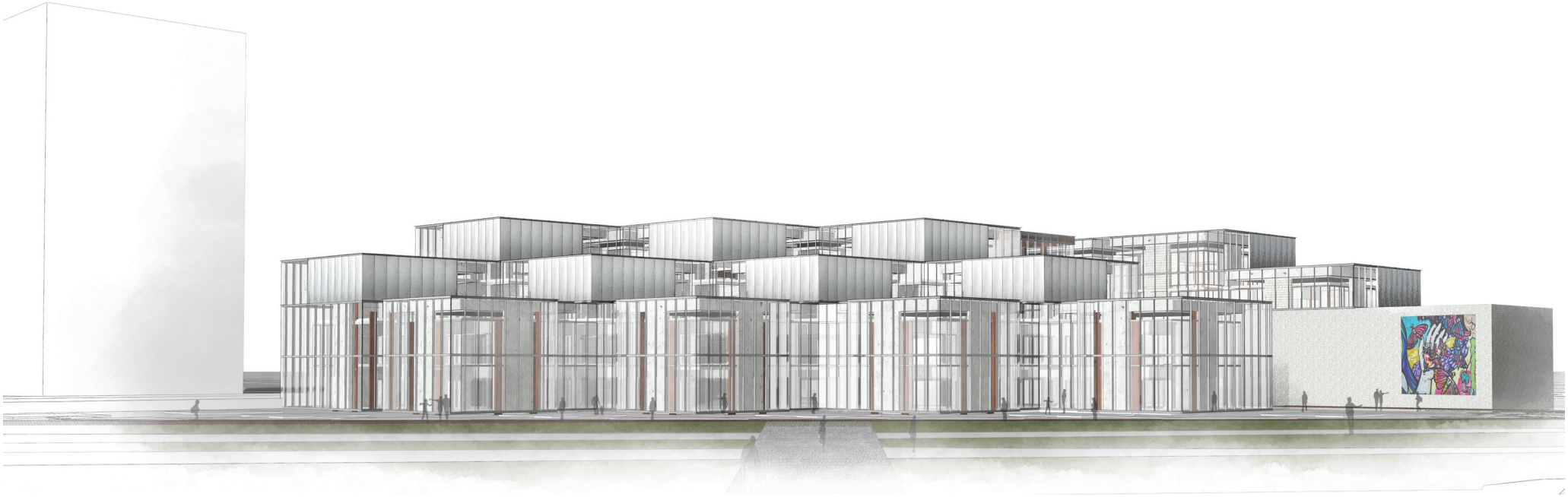
What should be kept?



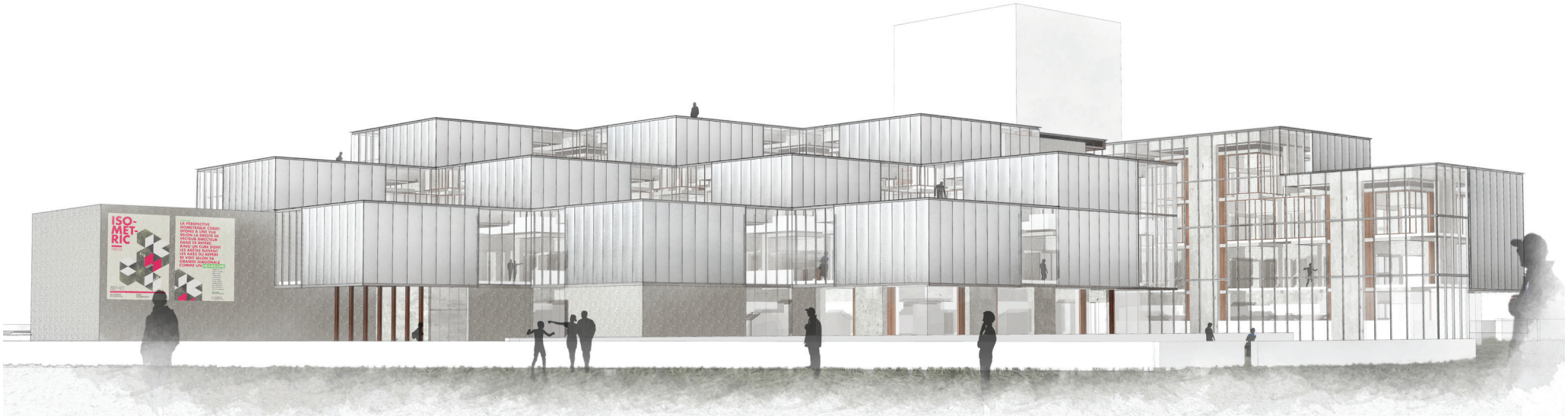
configurative form coexistence of masses

North (above)
West (below)

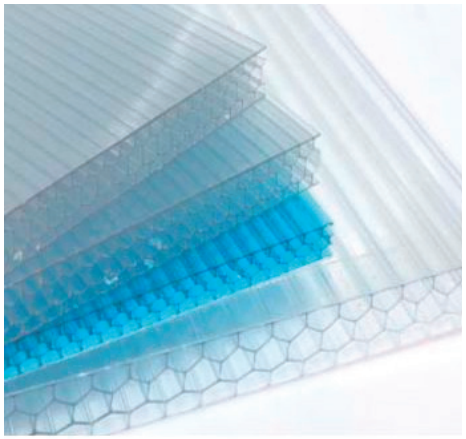




North (above)
West (below)

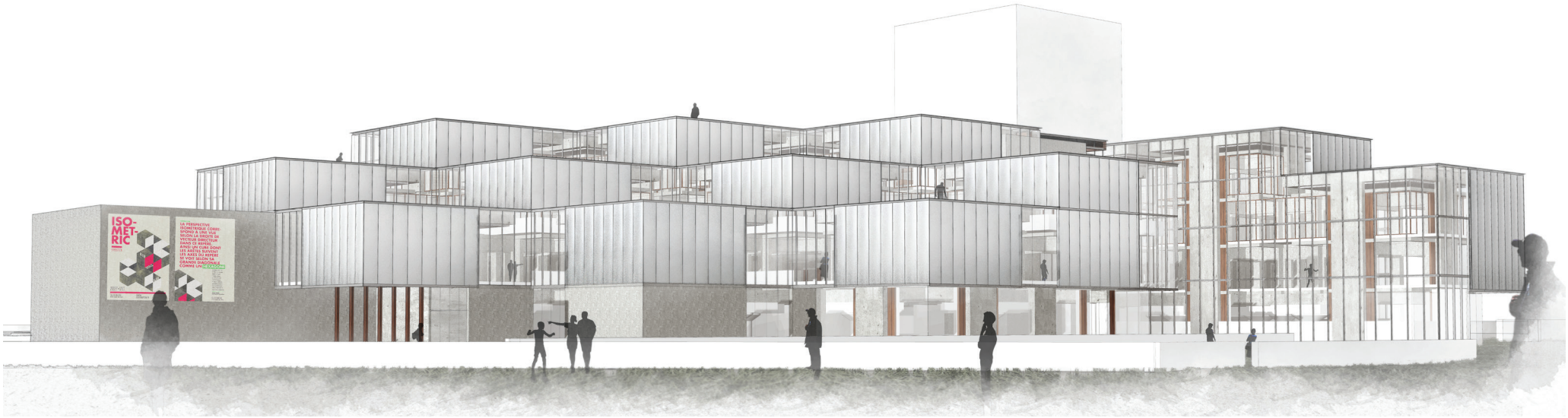


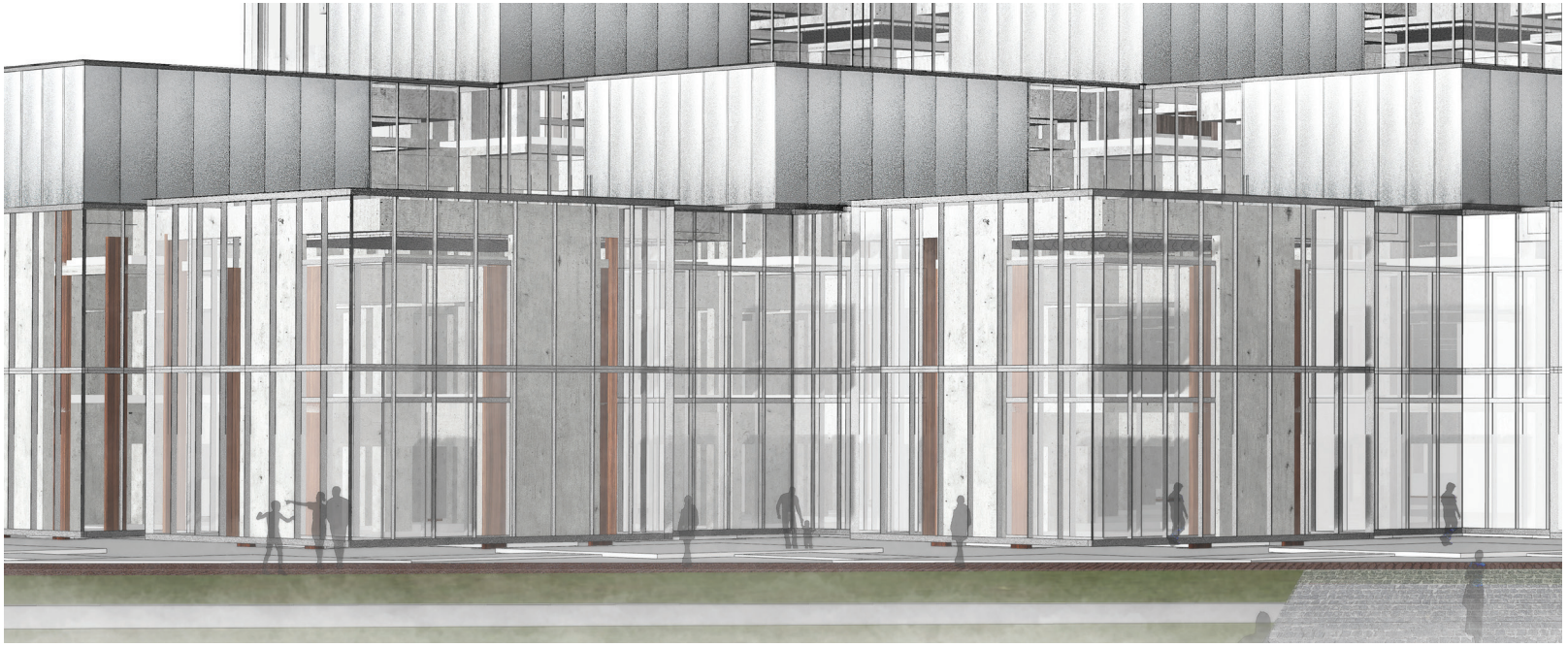
Material



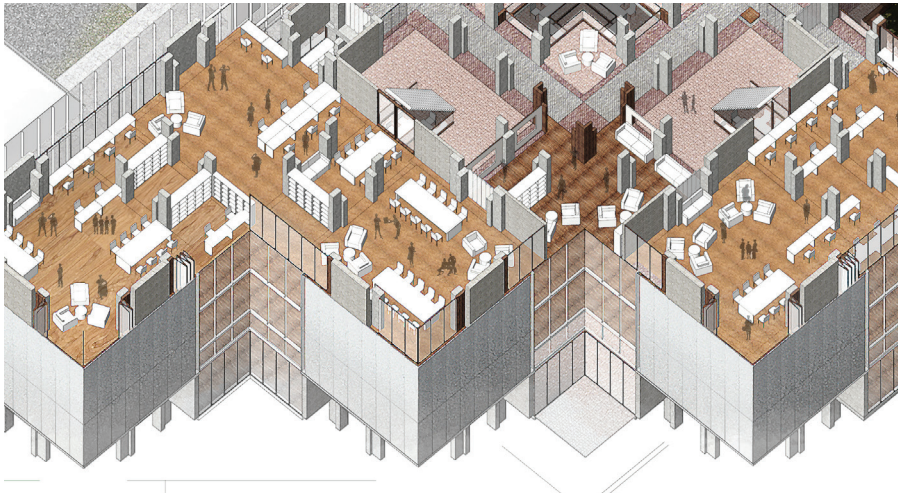
polycarbonate

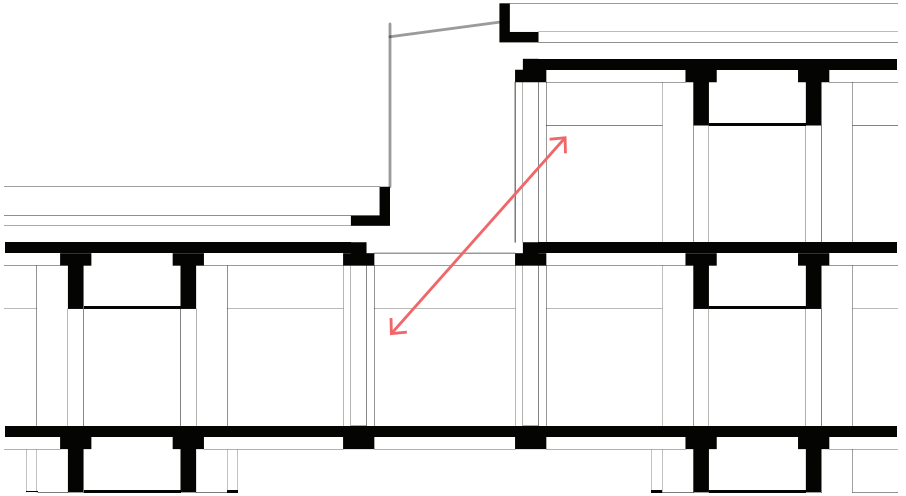
glass



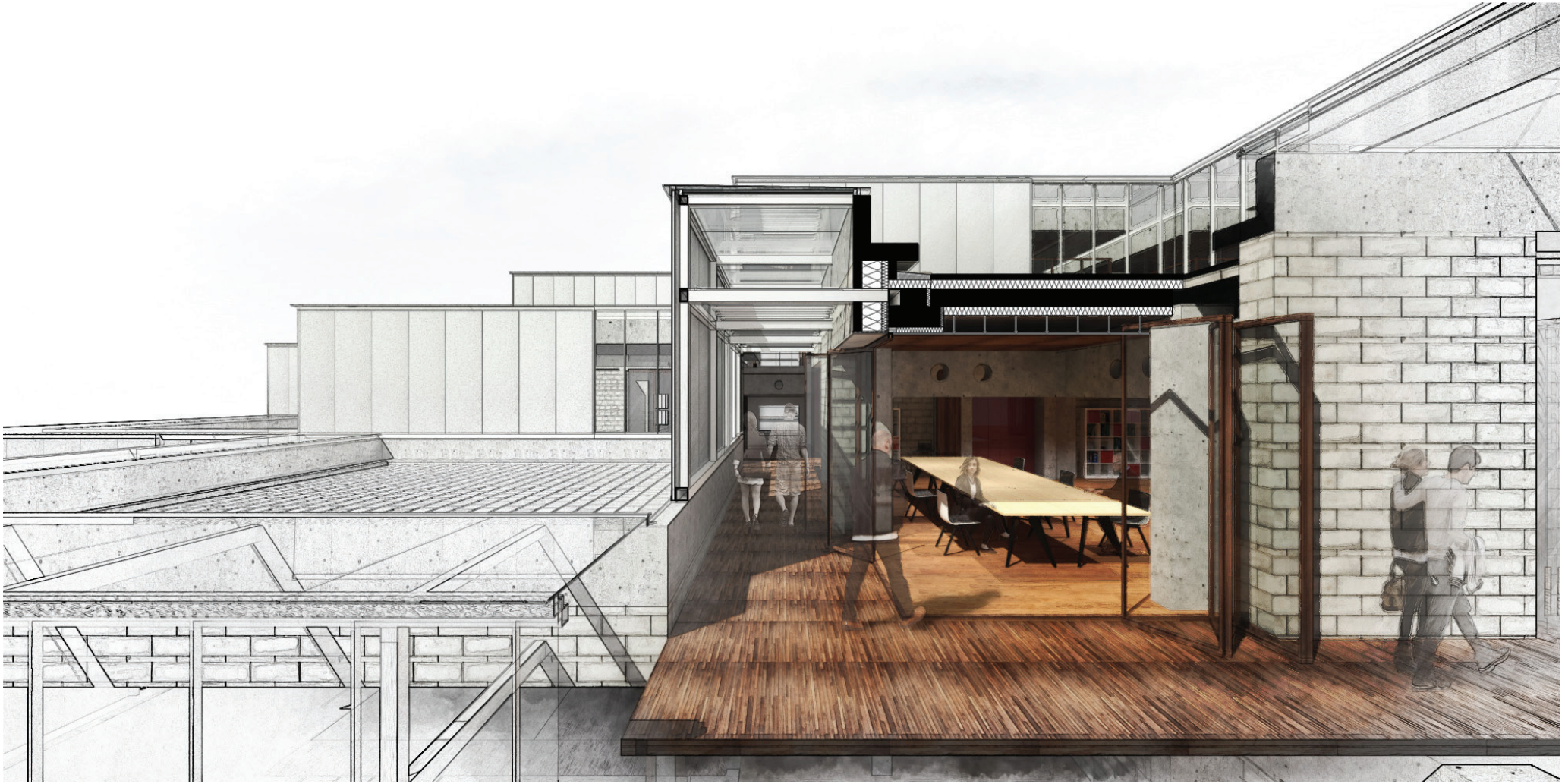


overlapping different timeness



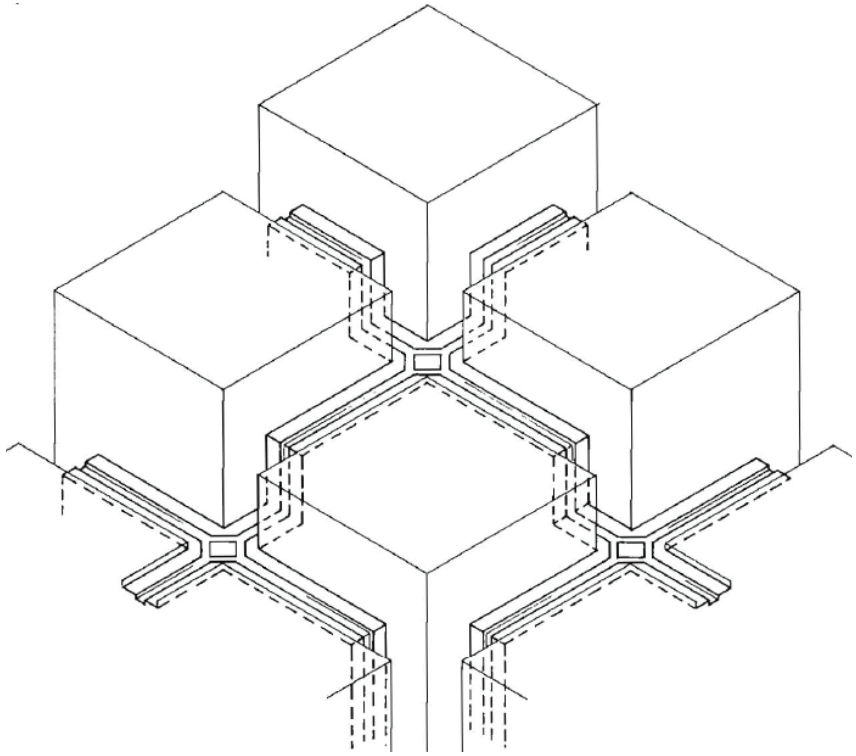


double facade and the idea of ‘In-between Space’

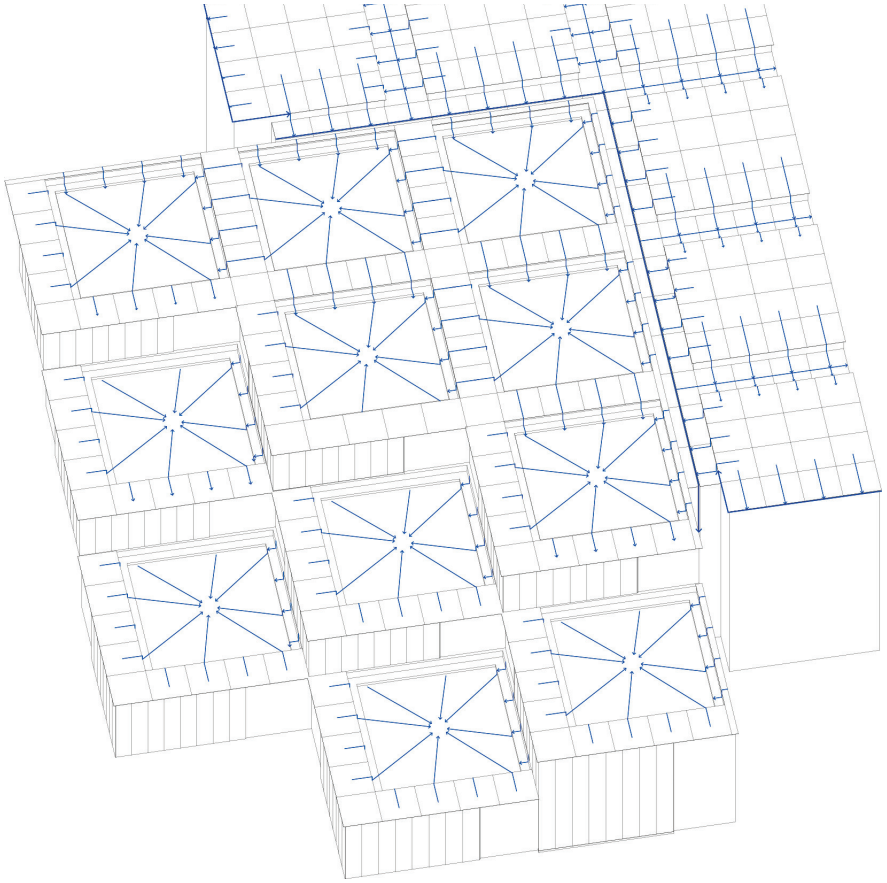


semi-private path & extended flexible working space

creating in-between space

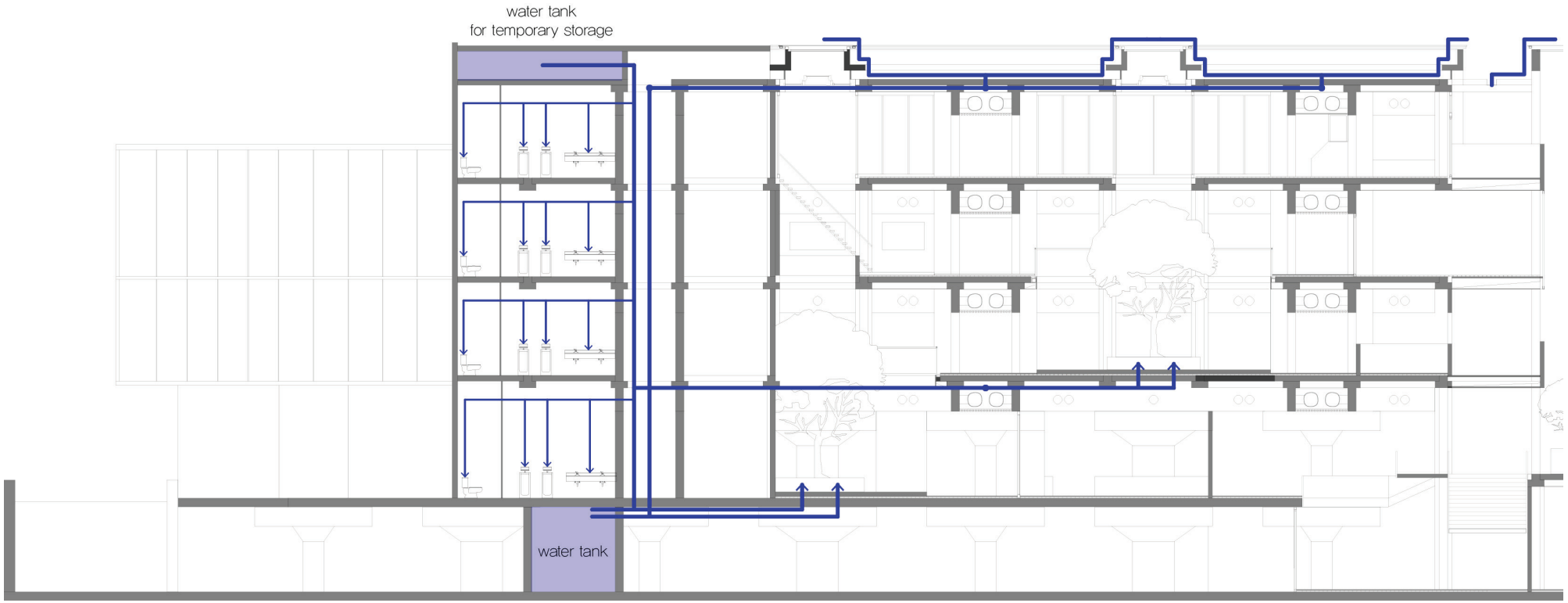


before



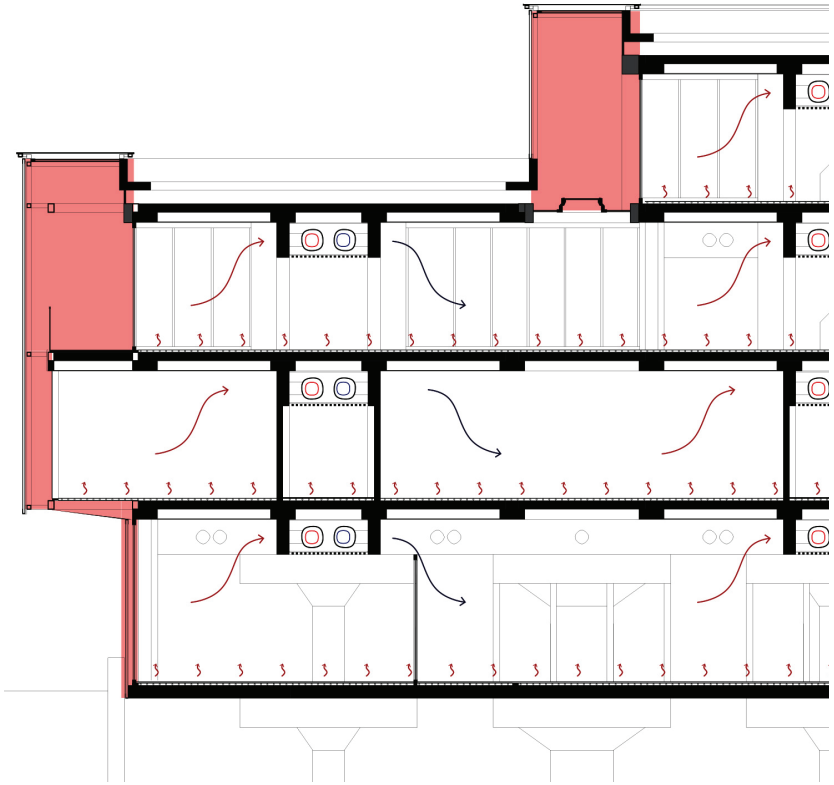
after

water drainage system

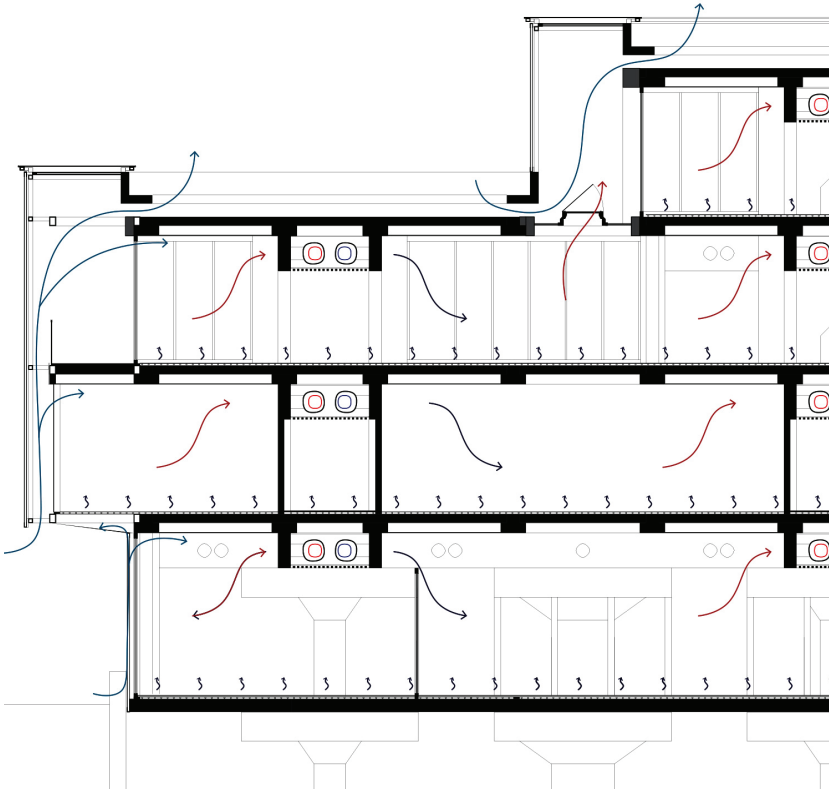


rain water reuse

natural ventilation through double facade

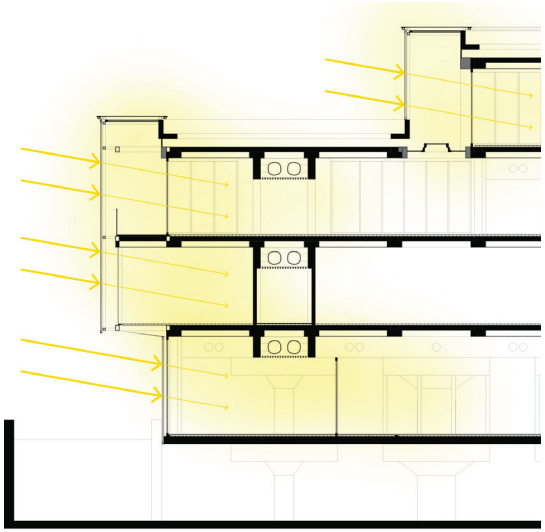


winter

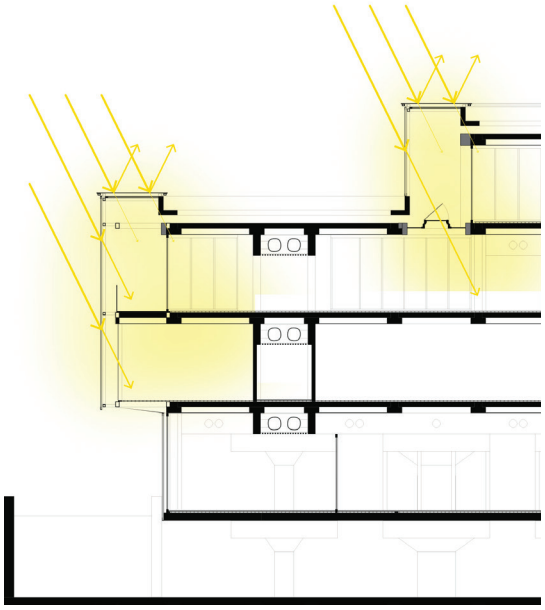


summer

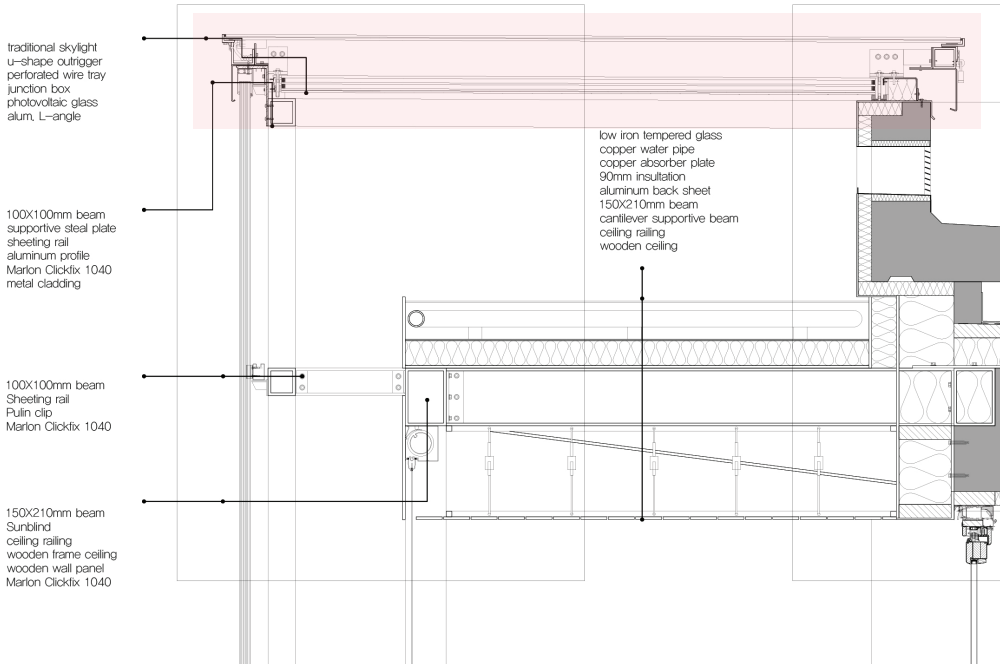
natural sunlight



winter

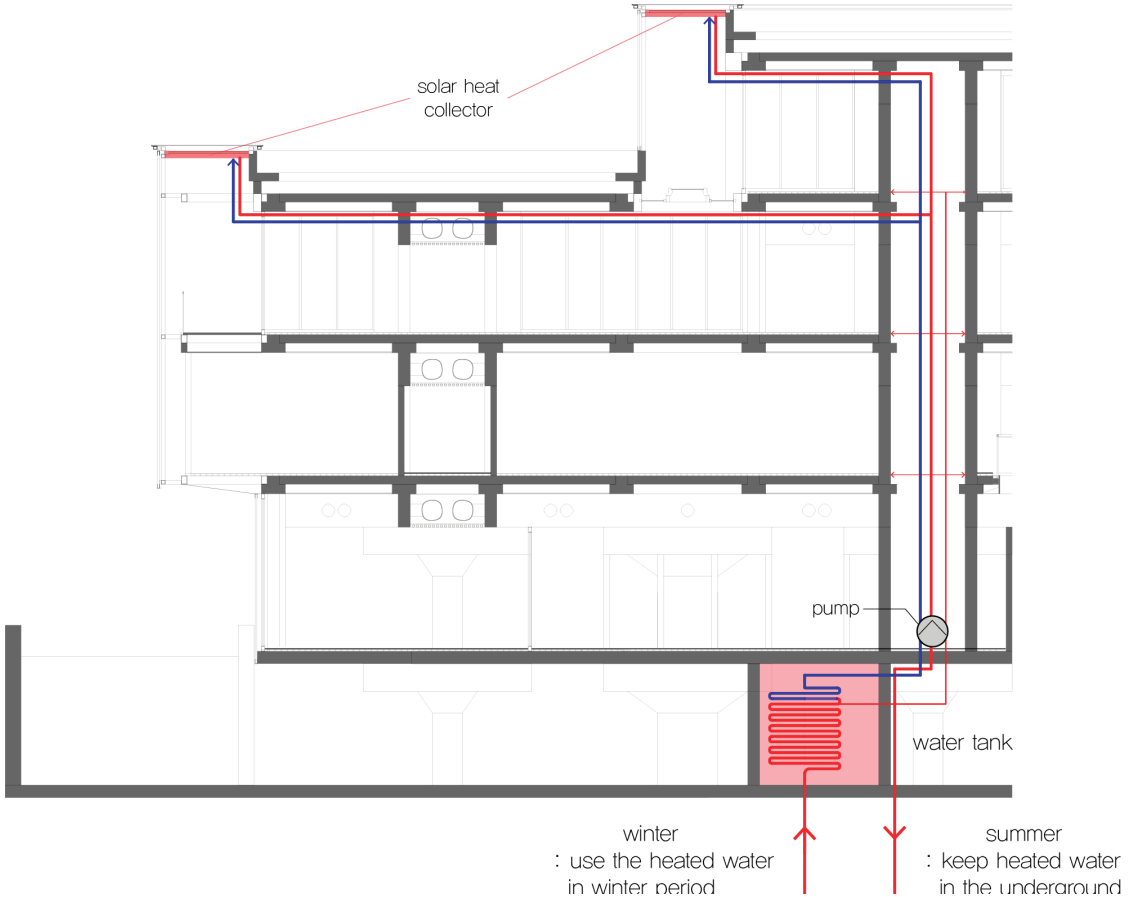


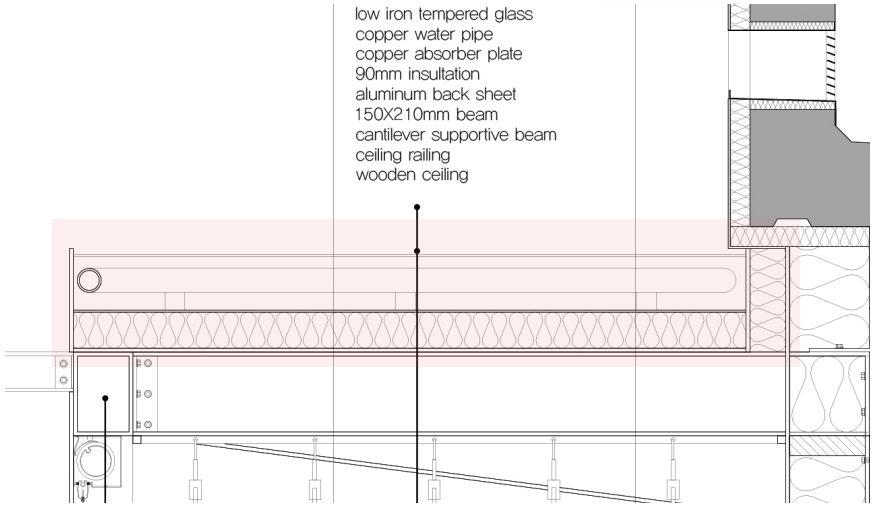
summer

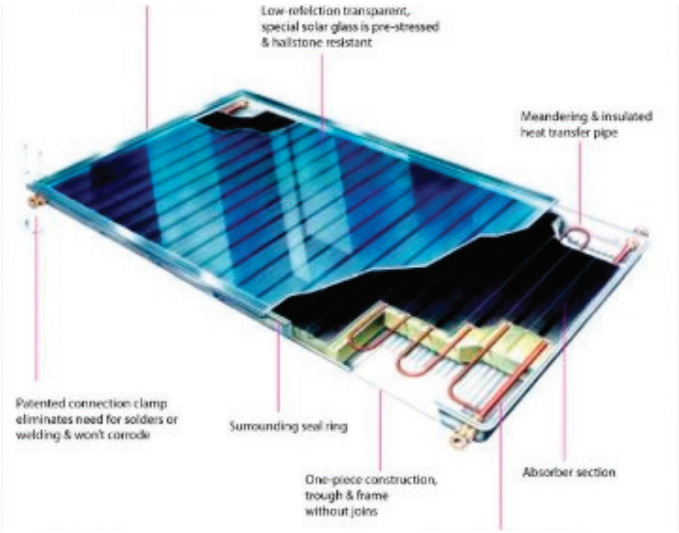


Onyx PV skylight

sun heat control scheme







Intro

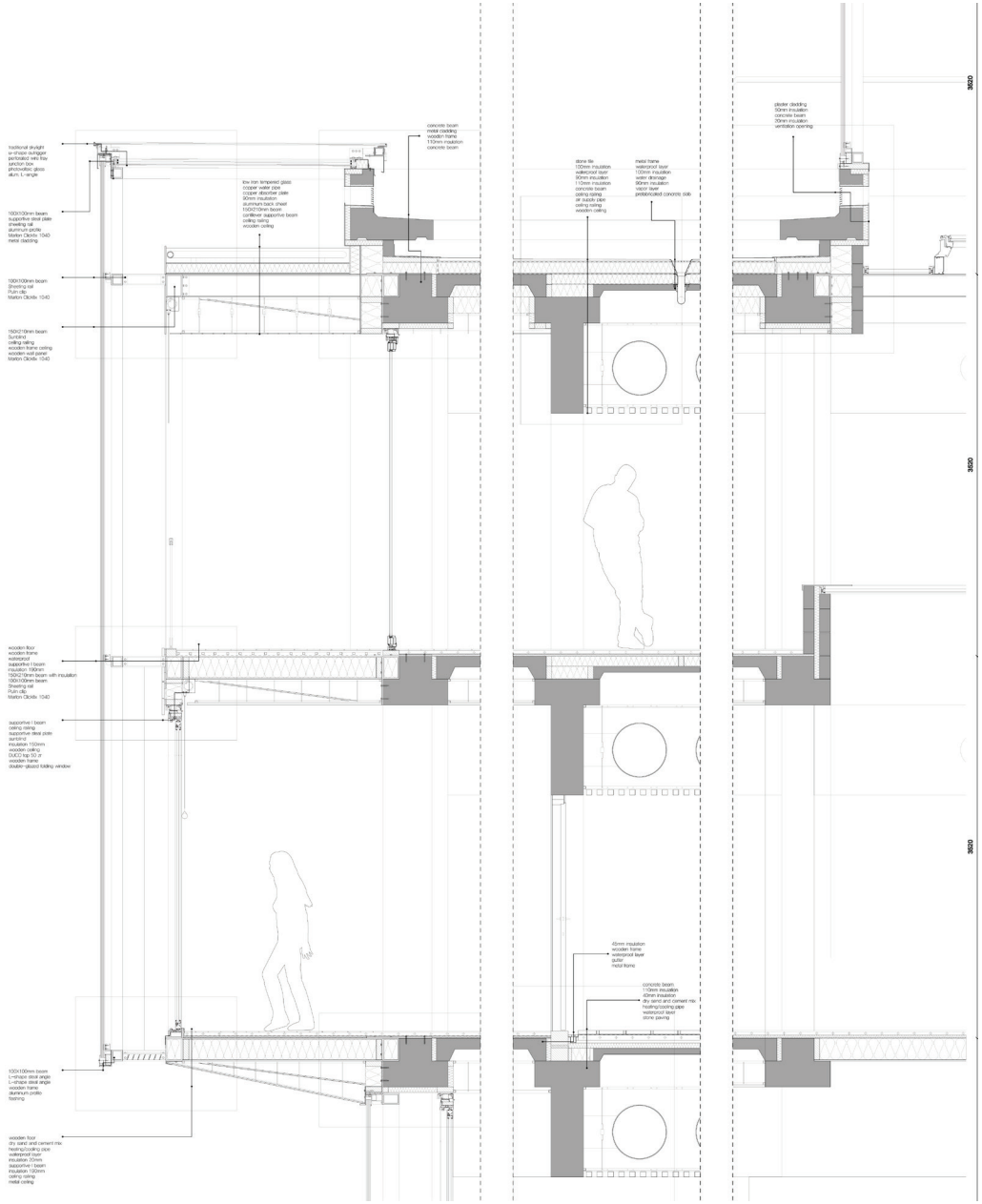
In–Between; Research and Design

In–between; the City and the Building

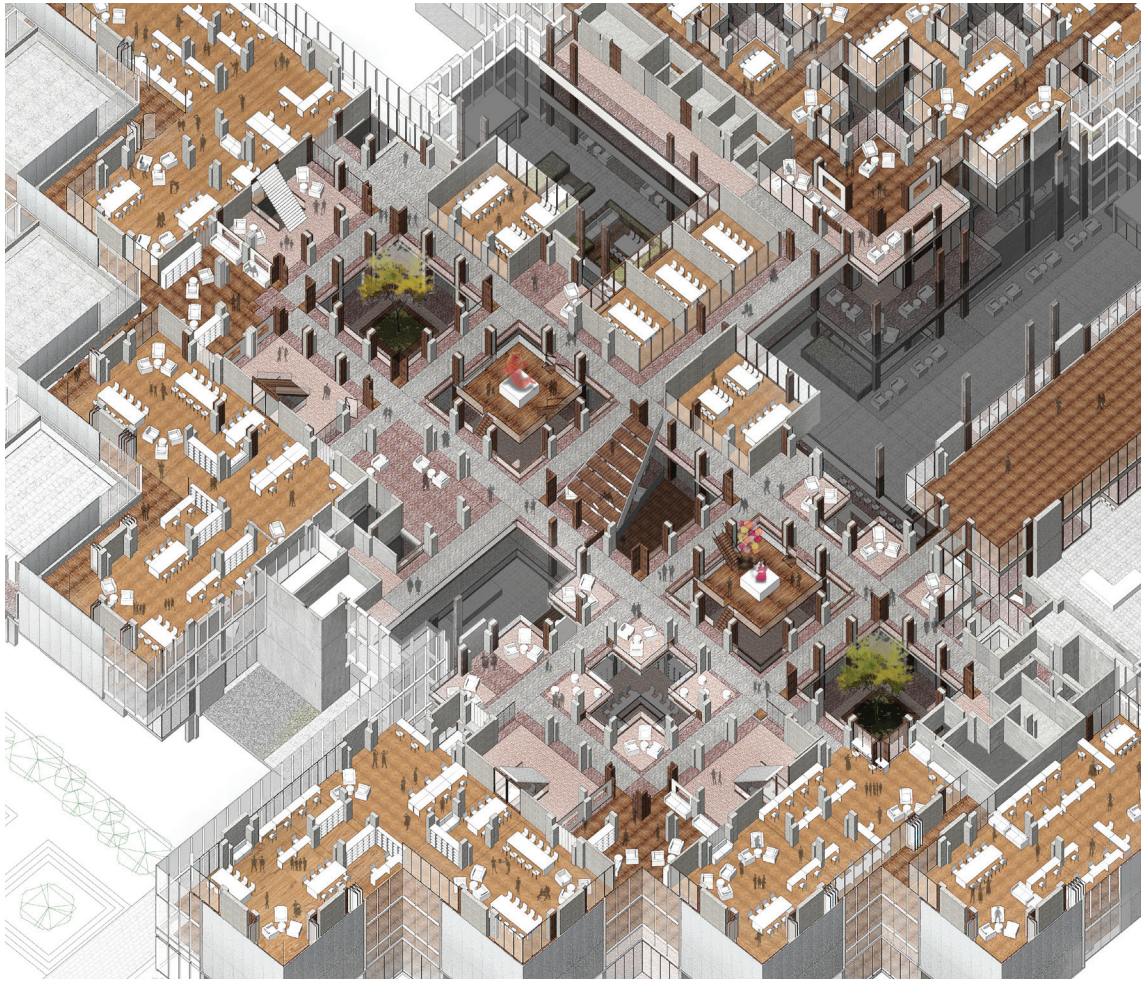
In–between; the Space and the Function

In–between; the Design and Comfort

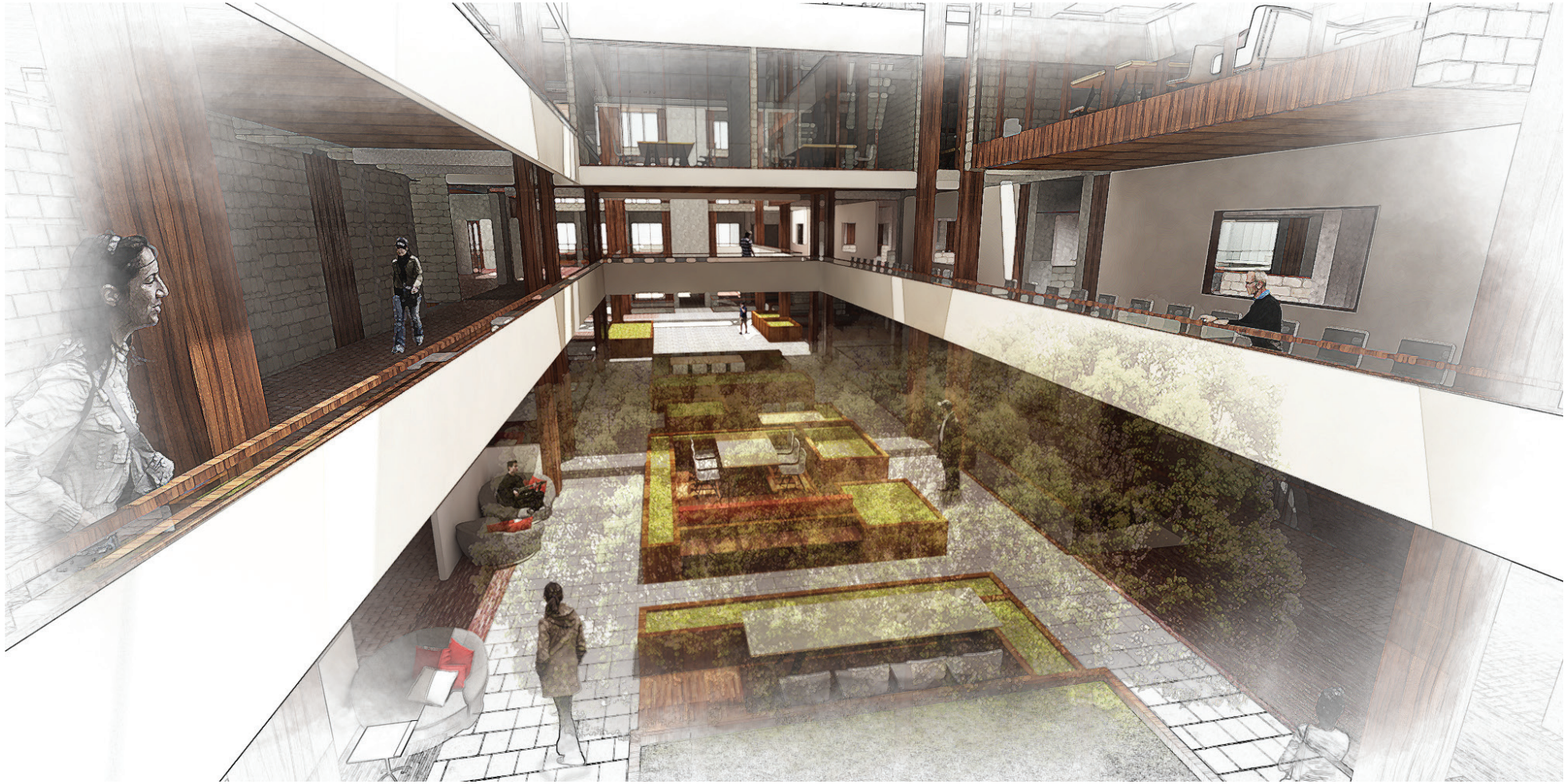
Conclusion



in-between design and comfort

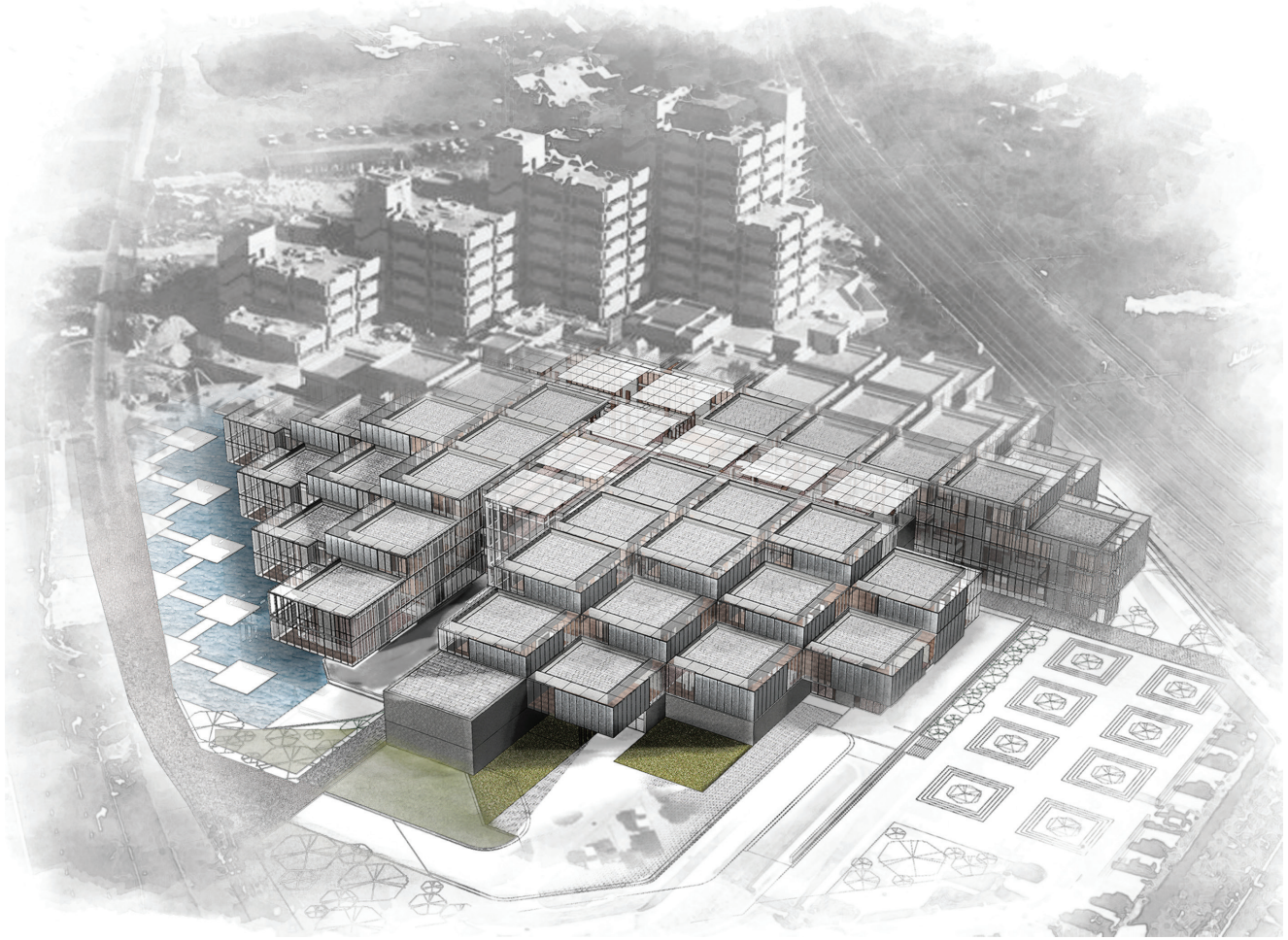


in-between the space and the function

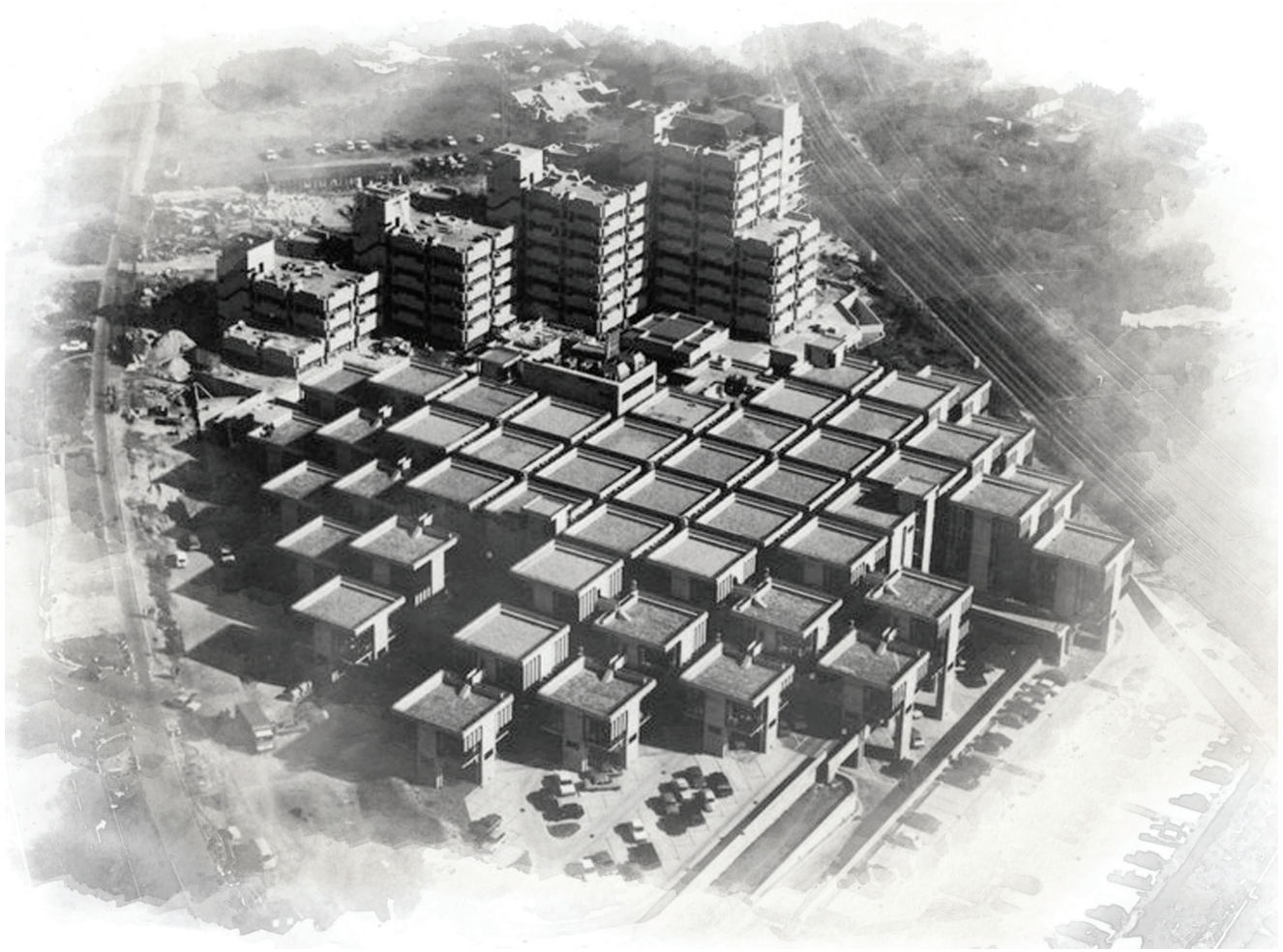


in-between the city and the building

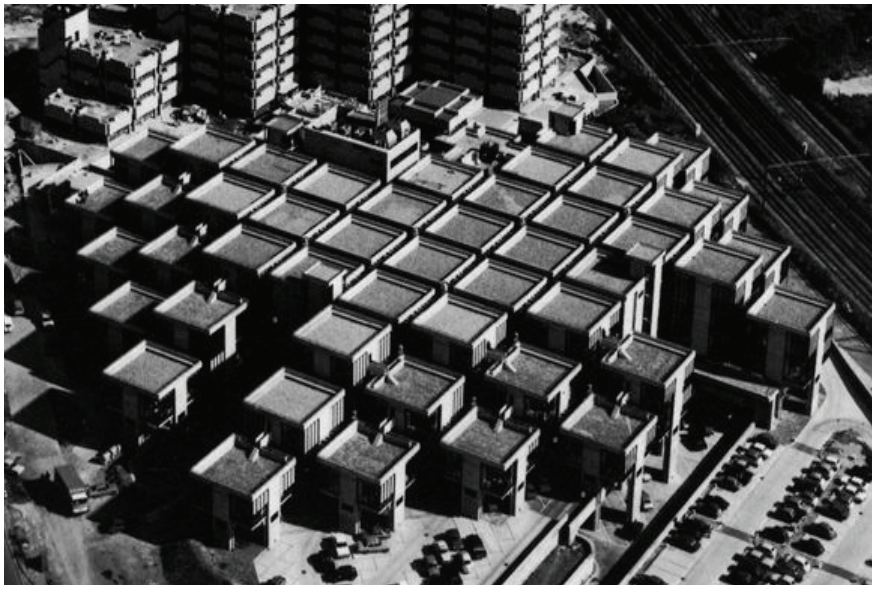
in-between the city and the building



keeping the rule while breaking the rule



why?



for all of unfinished sketches around the world, which were built after Modernism Architecture

Thank You