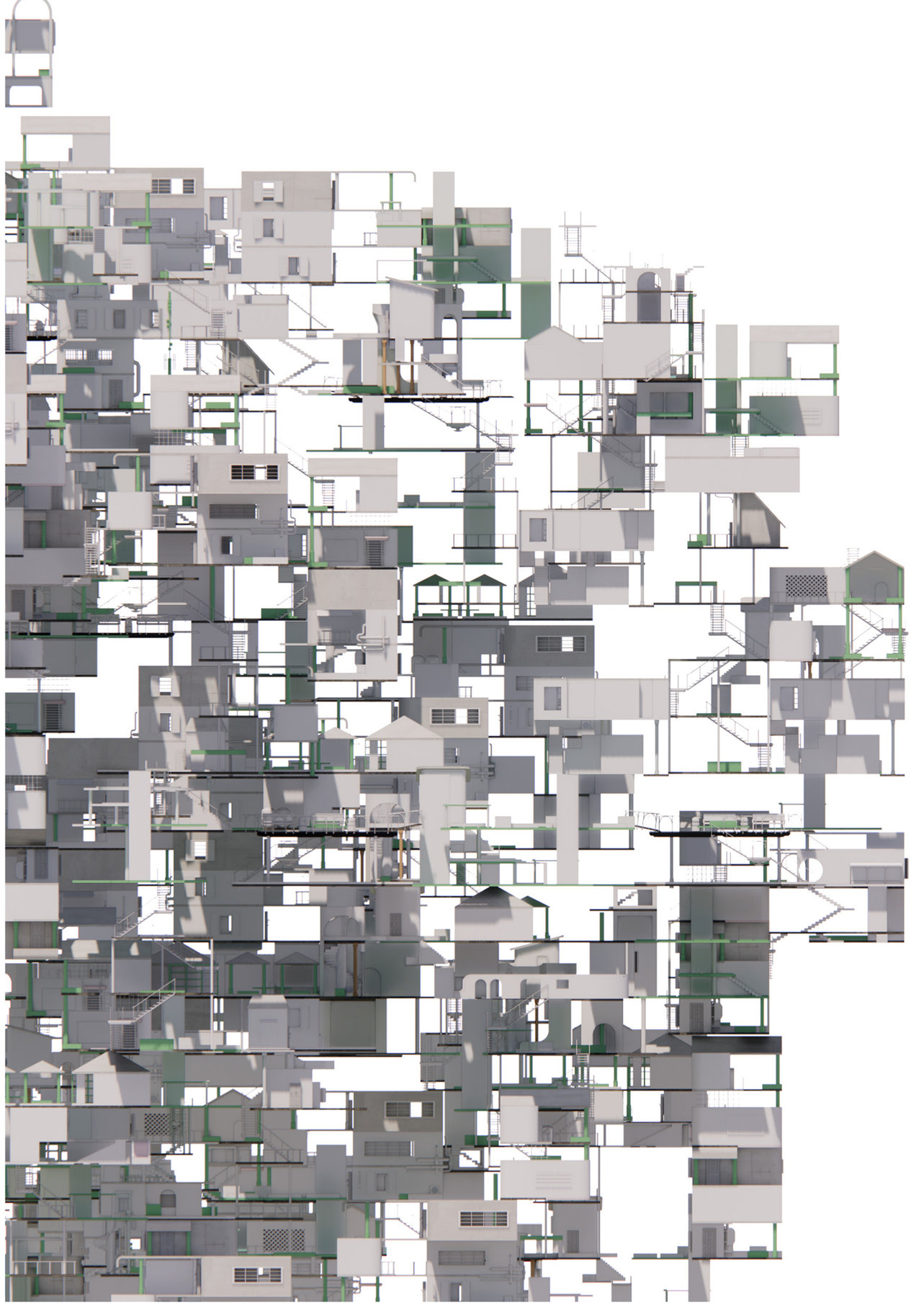
GATHERING&HEALING

date: 07.2022-12.2022
type: academic project
site location:
himachal pradesh,mcleod ganj

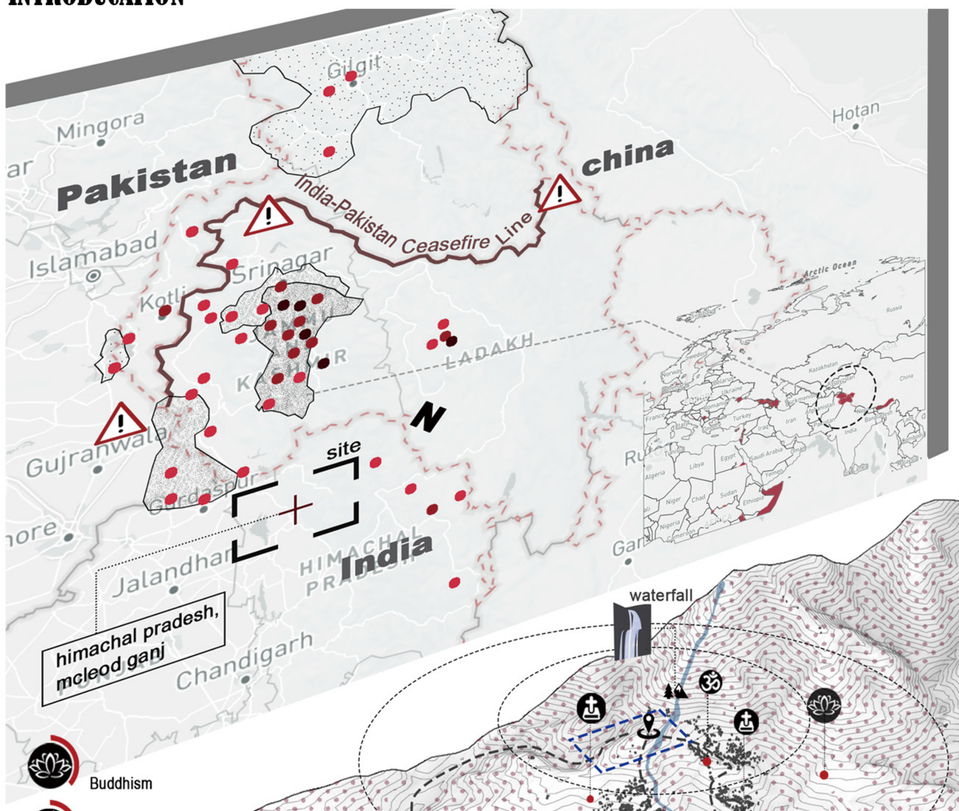
individual work

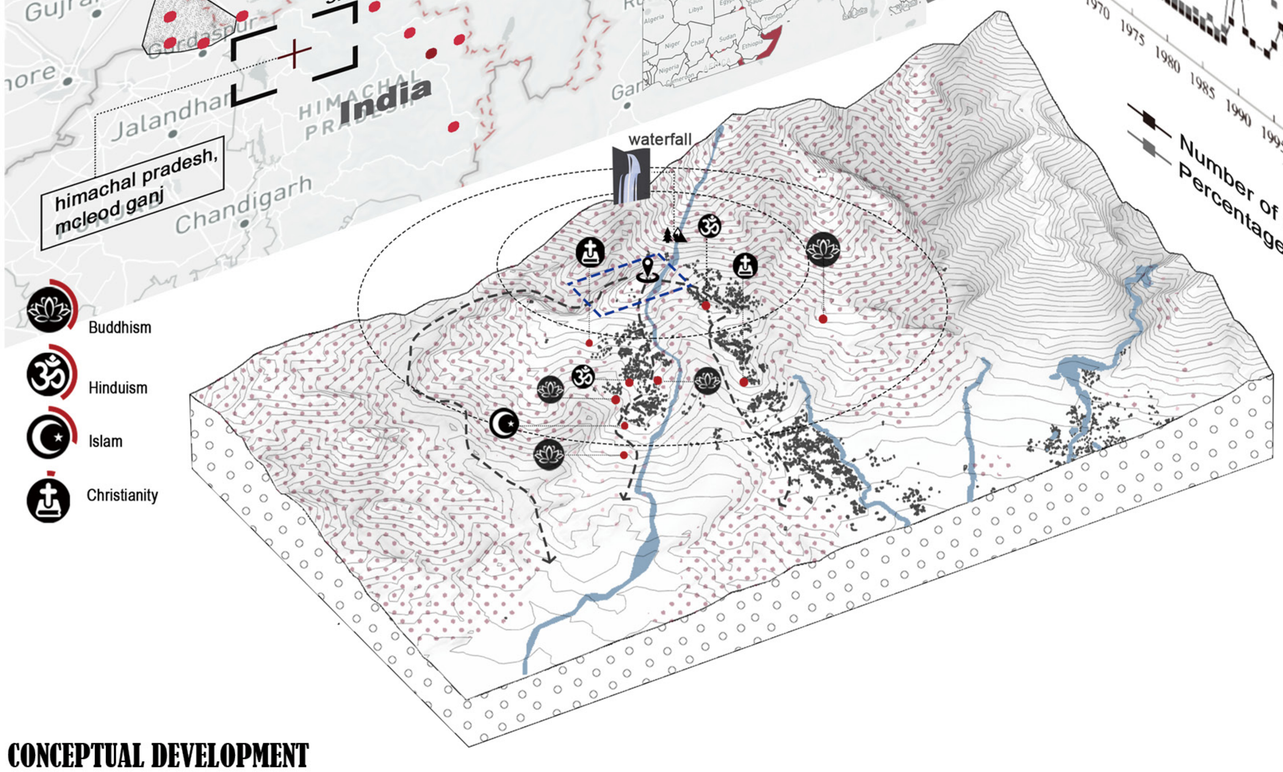
In this urban design project, the concern is for the physical and psychological toll of war displacement and multi-ethnic ghettos. The site is located near the border where the central conflicts and the Indo-Pakistani conflicts endure, leaving the exiled, the suffering scattered all over the place. A wide array of fragmented beliefs and architecture from all over the world are pieced together, forming a complete social world. The harmonious coexistence of disparate species and human beings naturally provides productive healing for mental state. In response to the local horrors and divisions, a beautiful, pluralistic, and self-growing civilian world is built.

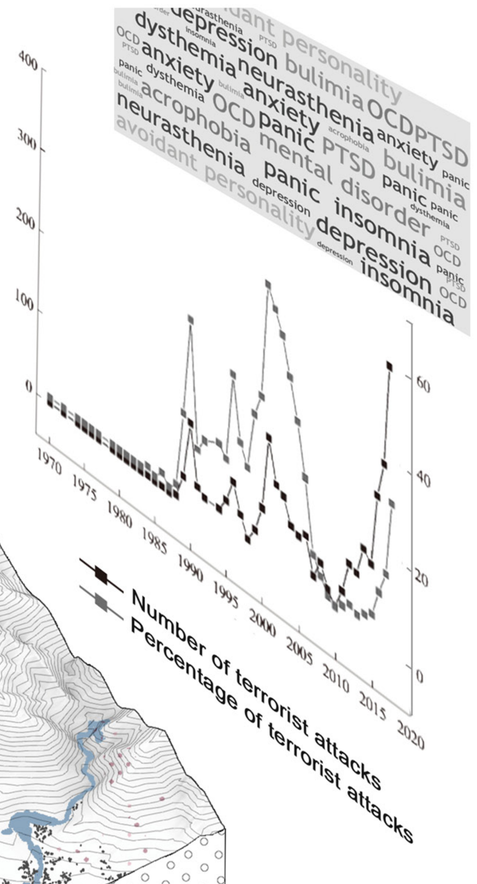
I developed a fusion of design through architectural typology. Specifically, I extracted the spatial symbolic characteristics of each ethnic group and convert them into residential, office, and healing spaces. Regarding public spaces, I used a de-symbolic design approach to show the attitude of integration. In this project, I used the WASP(a plugin developed by Andrea Rossi)in Python and grasshopper to realize the connection of the large massing. By rewriting the rules, I also created many winding axes and paths so that the community maintains peace and unity even though there are many displaced people from different cultures.



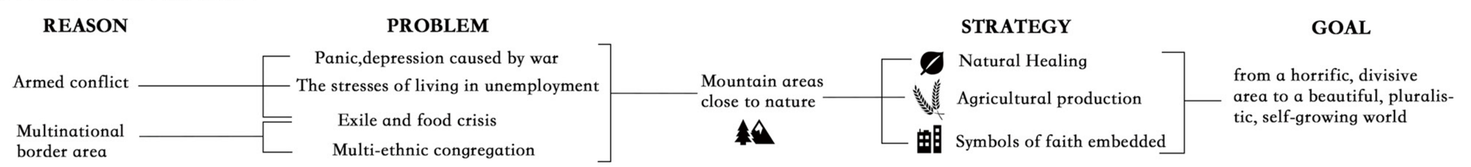
INTRODUCATION







CONCEPTUAL DEVELOPMENT



CREATING A NEW WORLD THROUGH THE NATURE

with reference to the Illustrator *Rosemary Valero-O'Connell* 's work

DESIGN CONCEPT

original residents
- Need for community commerce
- Lack of enough social contact
- Requirement for natural space
- Need for a sense of belonging to the faith

community workers
- More job opportunities
- Convenient workplace access
- A comfortable working environment

refugee
- Adequate food supply
- A sense of belonging at home
- Gathering and communication opportunities

tourists
- Participation in different cultural life

Peoviding office for work and management services

Extracting to preserve architectural culture and symbols of faith

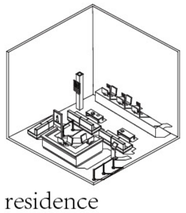
Set up public spaces for communicating and gathering

Providing a convenient transport grid

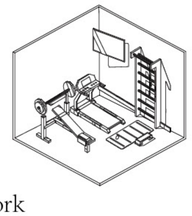
Increasing natural ecological space for healing

Planting space for food

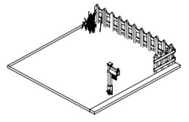
healing



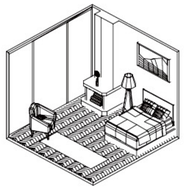
healing



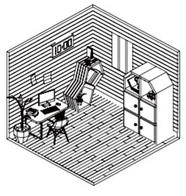
public space



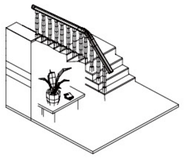
residence



work

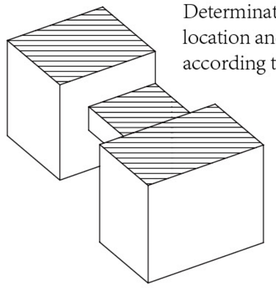


vertical traffic



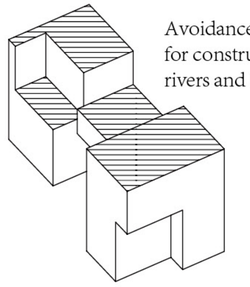
GENERATION PROCESS

①



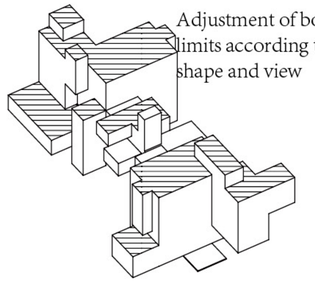
Determination of volume, location and connections according to zoning

②



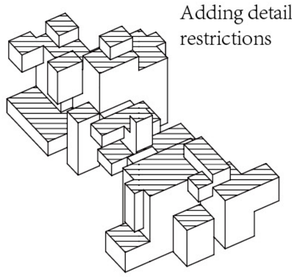
Avoidance of poor locations for construction such as rivers and large boulders

③



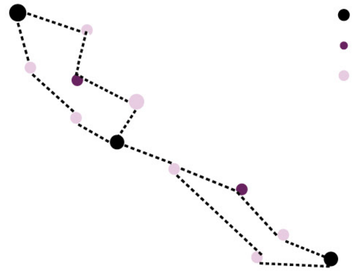
Adjustment of boundary limits according to mountain shape and view

④



Adding details and fixing restrictions

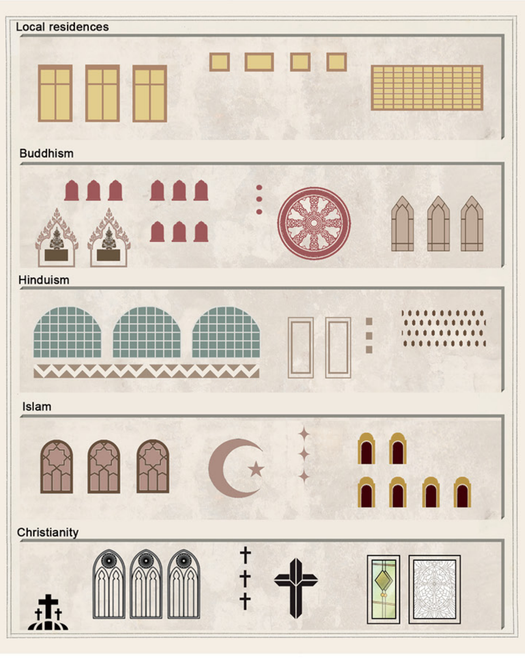
CONNECTING RULES



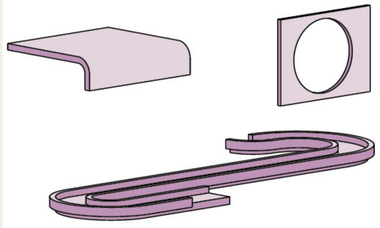
- traffic
- quiet space(healing...)
- space with sound(working,planting...)

Dividing dynamic and static areas by using connection rules

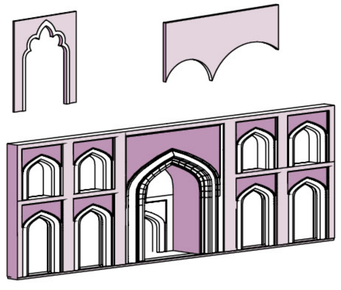
EXTRACTION OF ARCHITECTURAL ELEMENTS



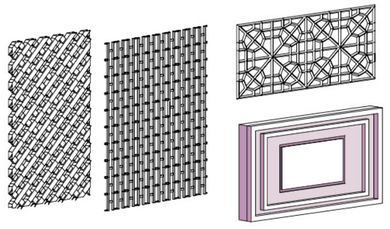
Buddhism: round and and ethnic patterns



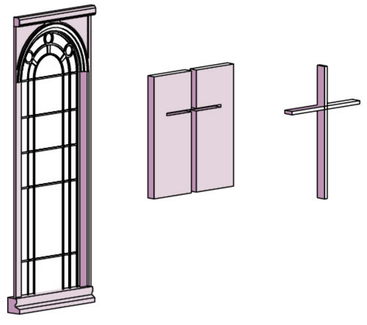
Islam: the stars, the moon and the more sophisticated arch



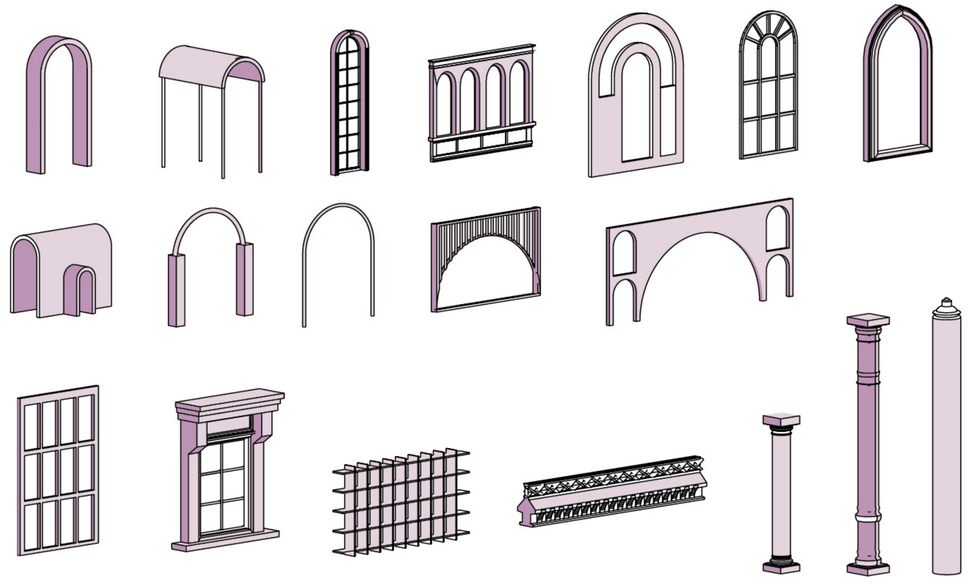
Hinduism: squares and the dense grid



Christianity: fine windows and Crucifixion



Similar features
Semicircular arch and Column

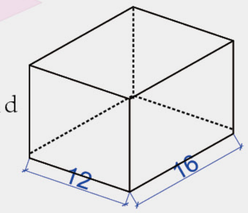


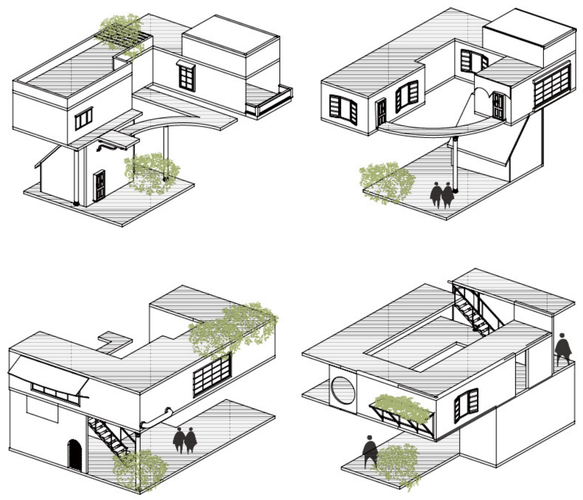
PROTOTYPE

QUIET HEALING

prototype-A:

-Enjoy the flowers and plants
-Resting and sleeping
-Meditation

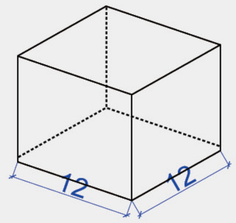


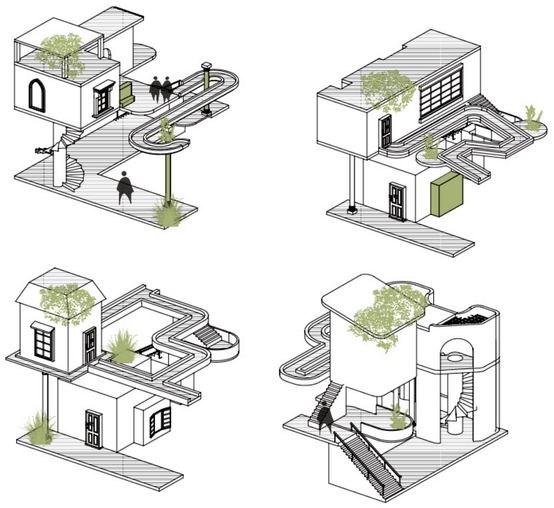


HEALING

prototype-B:

-Doing Exercise
-Listening to the water flow
-Religious activities

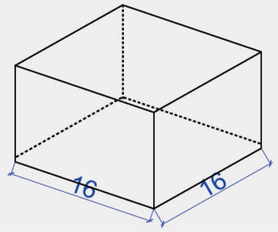


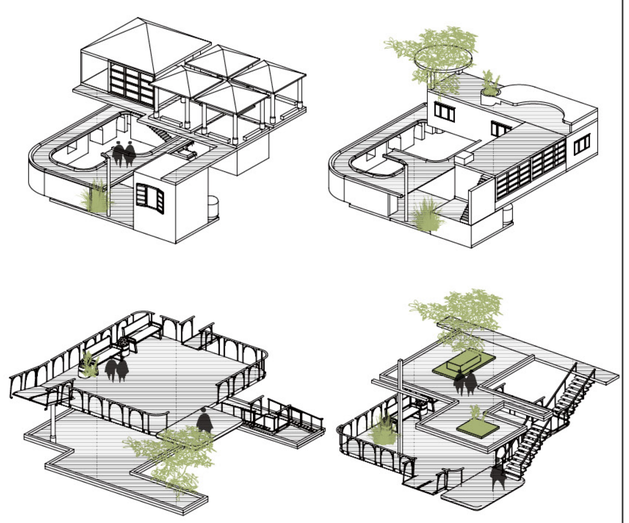


PUBLIC SPACE

prototype-C:

-Interacting with friends
-Public activities
-Short break platform

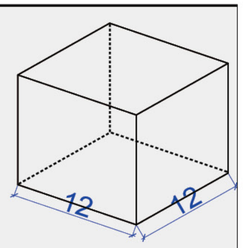


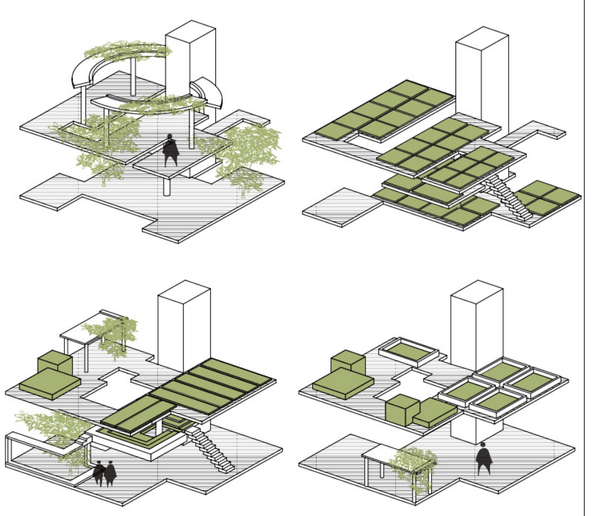


PLANTATION

prototype-D:

-Vegetable Market
-Animal husbandry
-Flower growing

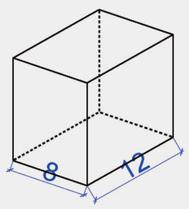


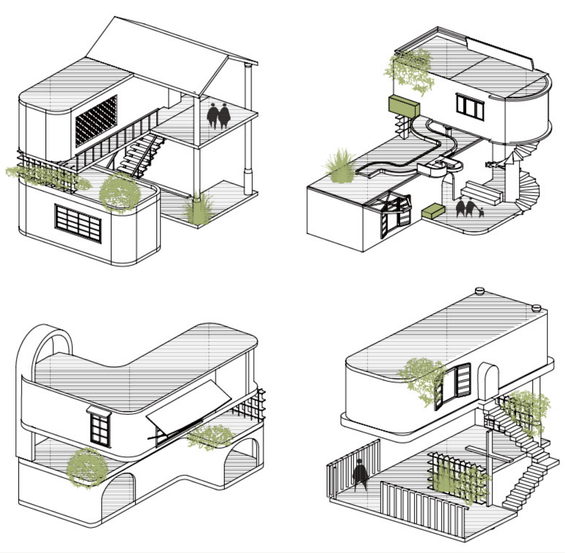


RESIDENCE

prototype-E:

-Single Apartment
-Family home
-Housing for people of different faiths

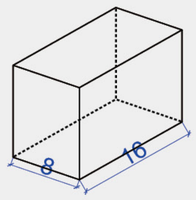


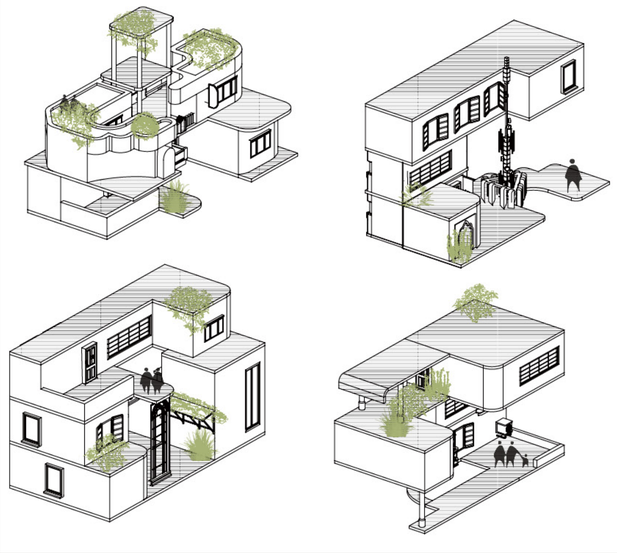


WORK

prototype-F:

-Studio
-Organic catering shop
-Planting training

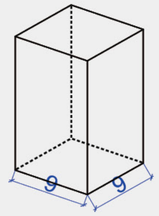


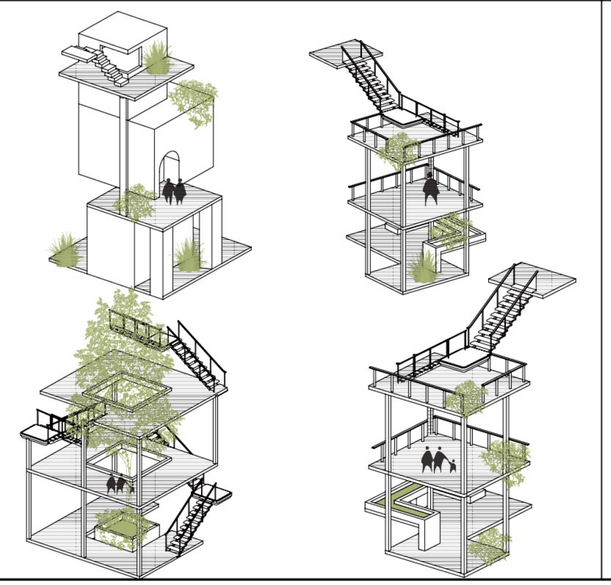


VERTICAL TRAFFIC

prototype-G:

-Vertical planting
-Public space connections
-Direct access to nature

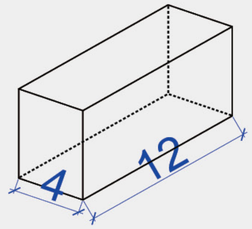


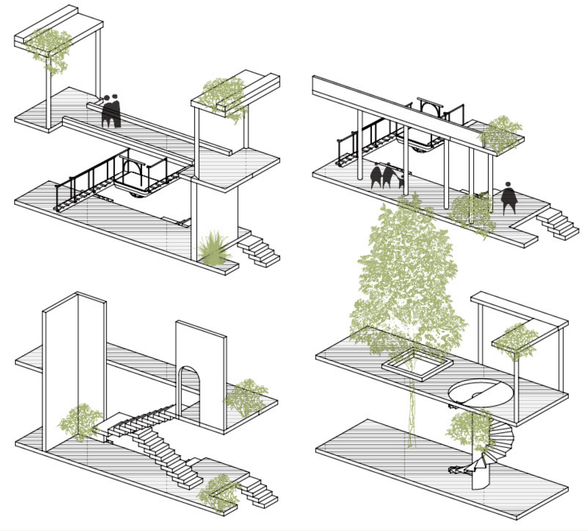


CORRIDOR

prototype-H:

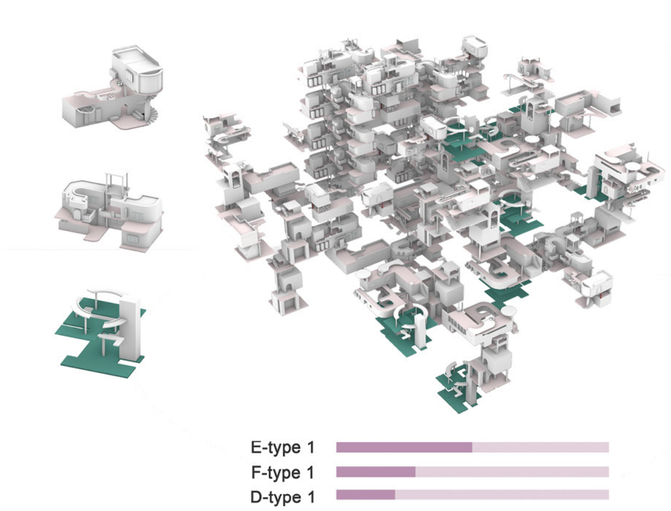
-Ornamental plants
-Public space connections



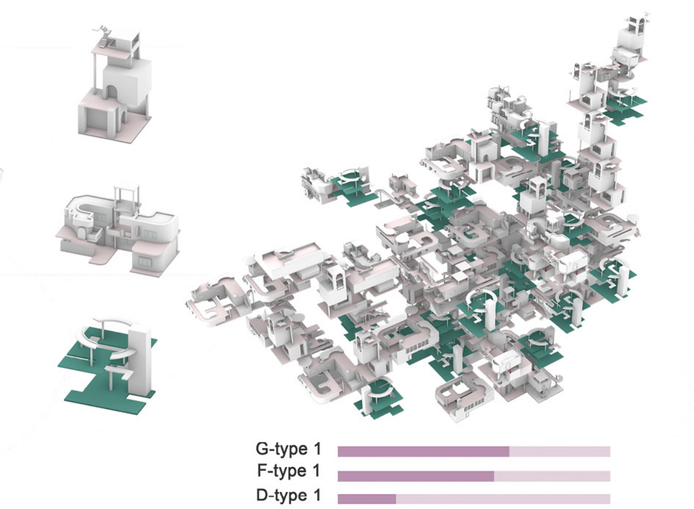


AGGREGATION TESTS AND RESULT

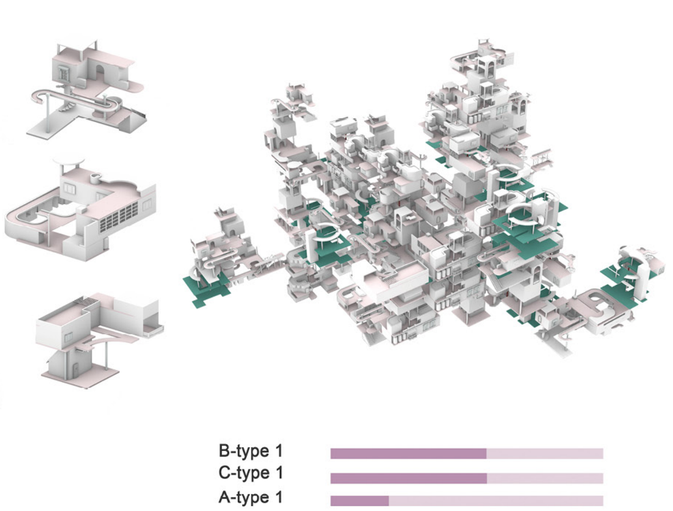
ASSEMBLY 1



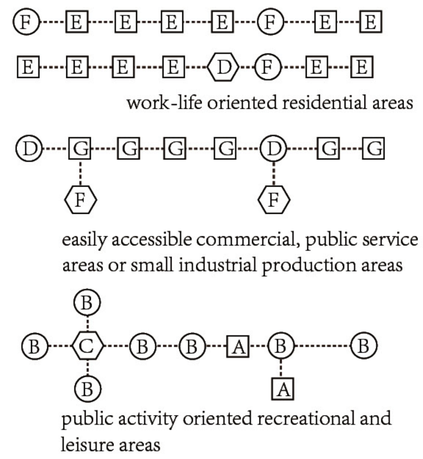
ASSEMBLY 2



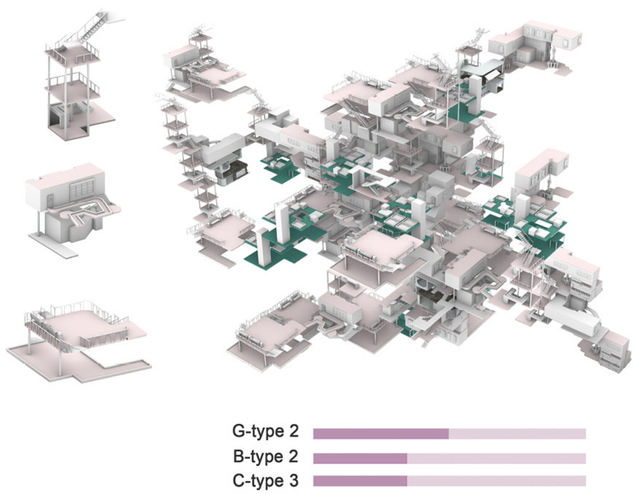
ASSEMBLY 3



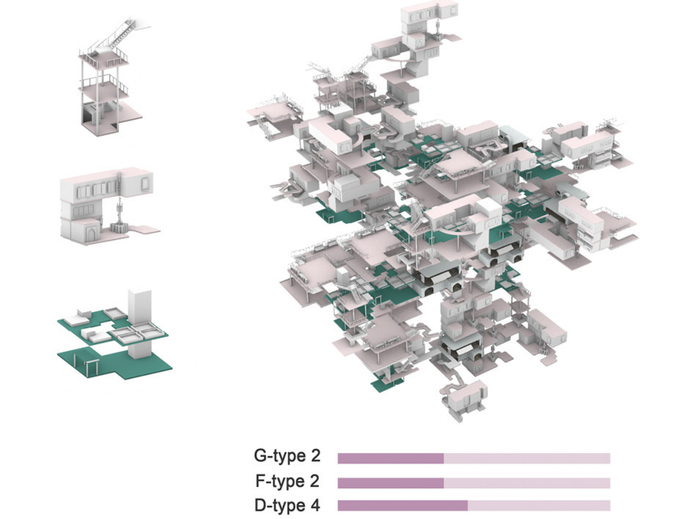
① I tested the functional aggregations using Style 1 of units. They form different functional zones.



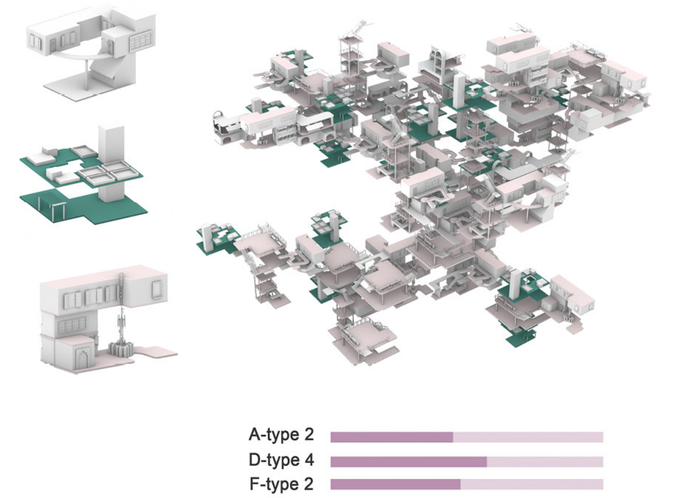
ASSEMBLY 4



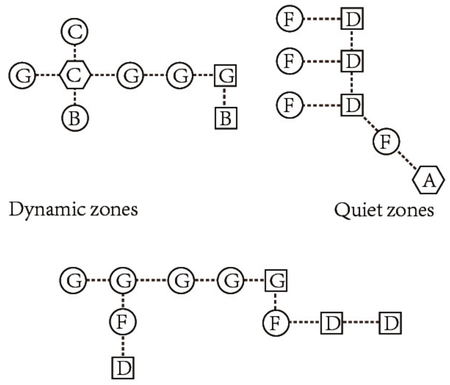
ASSEMBLY 5



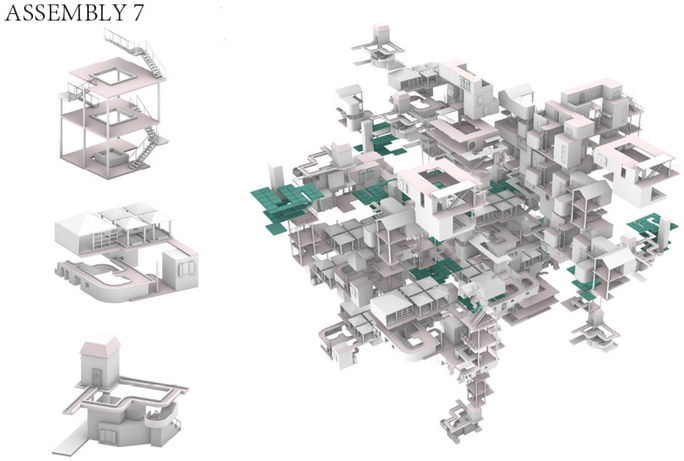
ASSEMBLY 6



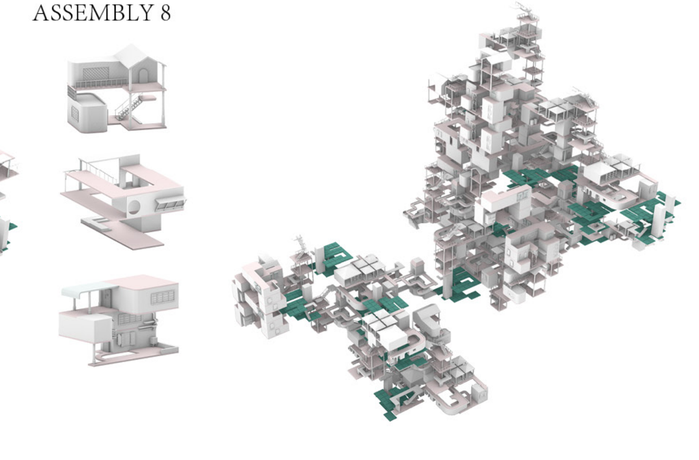
② I explored different aggregations of dynamic and quiet zones using other unit styles.



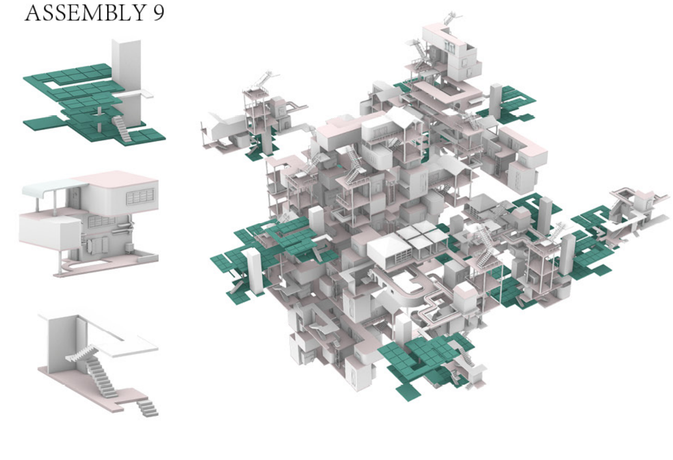
ASSEMBLY 7



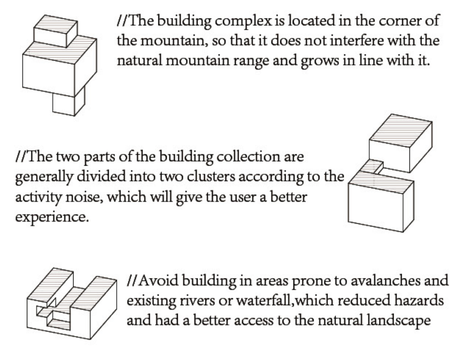
ASSEMBLY 8



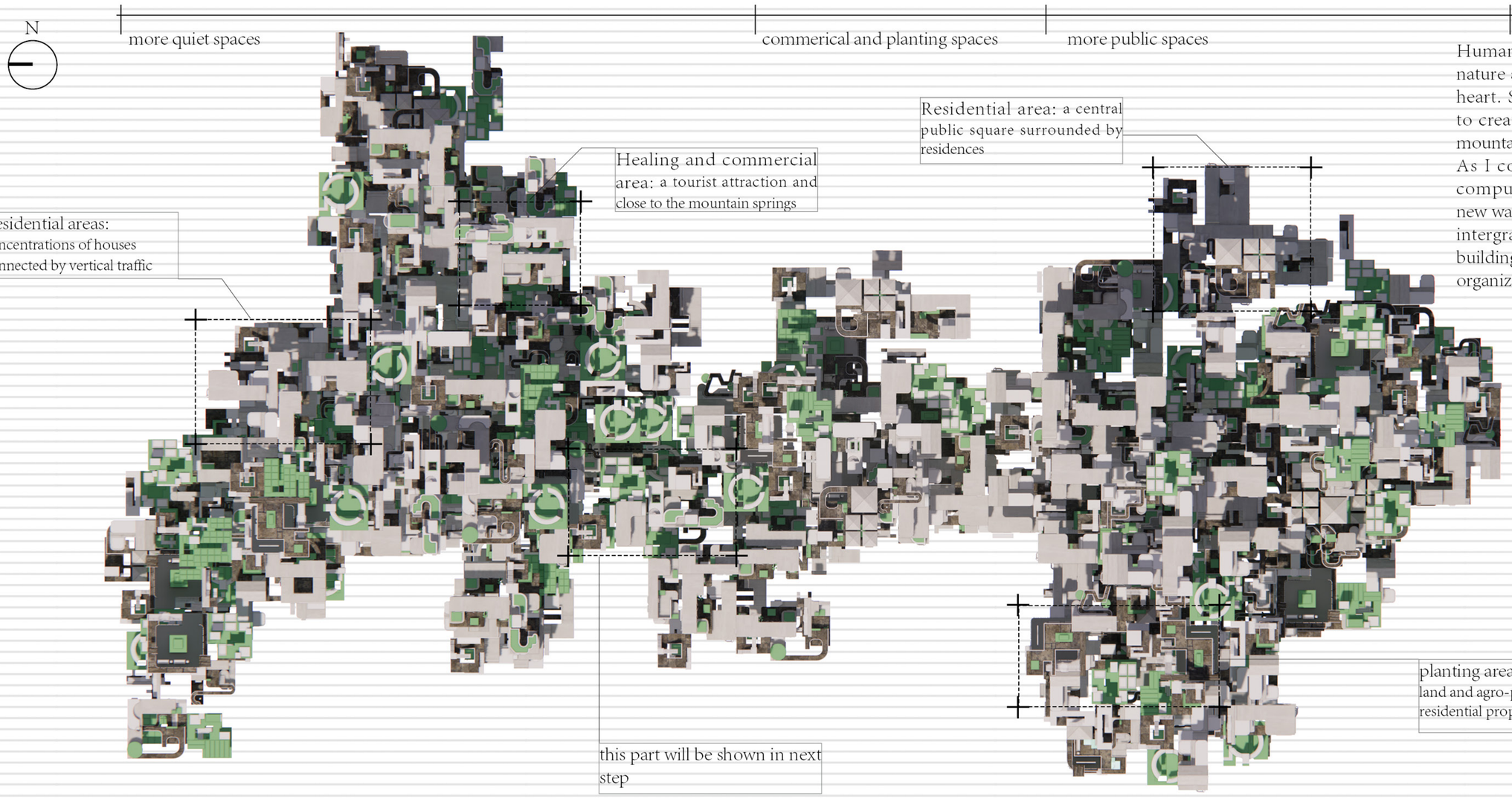
ASSEMBLY 9



③ I added boundary restrictions to control the shape of the overall assembly of buildings. Testing how to adapt to the terrain, divide different areas and avoid mountain avalanches and waterfalls.



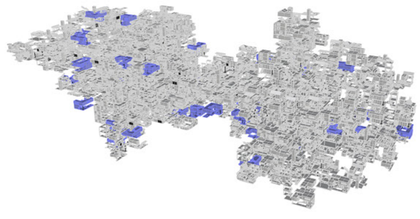
MASTER PLAN



Humanity is always at war, and religion and nature are two great ways to heal the wounded heart. So I have tried to combine these three to create a natural utopian world on top of a mountain.

As I considered the combination, machine computing and digital modelling gave me a new way to express the urban gathering area. By intergrating different components , individual buildings and elements can from a disorete self-organizing system.

FUCTION CONFIGRATION



Quiet healing spaces

Public event spaces

Residential spaces

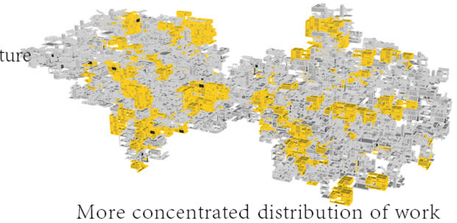
Vertical traffic

Healing space for activities

Overall separation of voice and quiet, with most of the quiet spaces located in the northern group and more active public spaces in the southern group

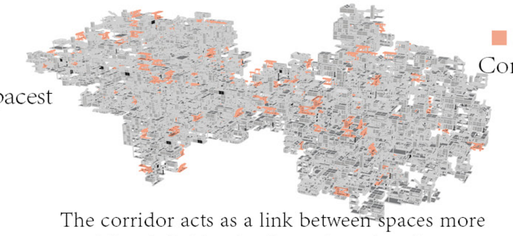
Spaces for agriculture

Public activity spaces are more dispersed, while the distribution of agricultural cultivation spaces is relatively concentrated



work and commercial spacest

More concentrated distribution of work and commercial space than residential



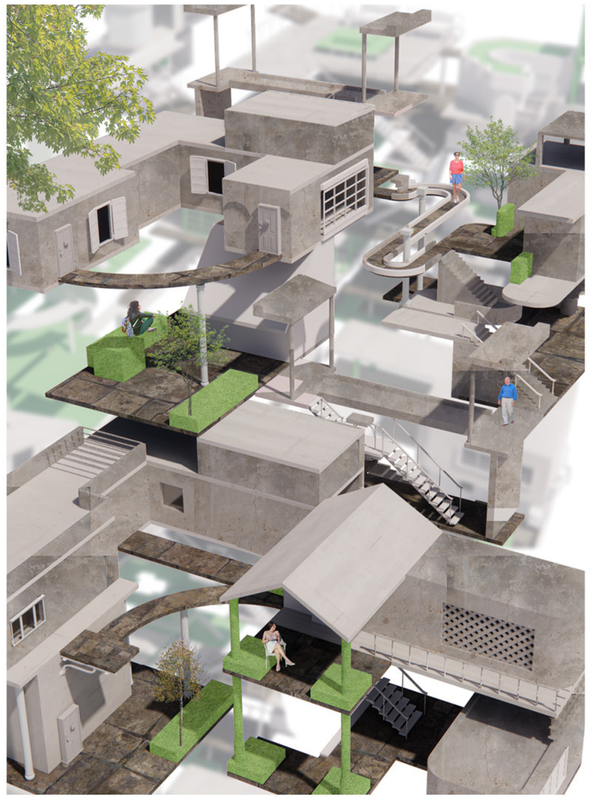
Corridors

The corridor acts as a link between spaces more spatial and divides the dynamic and static areas. Vertical traffic distribution is more continuous

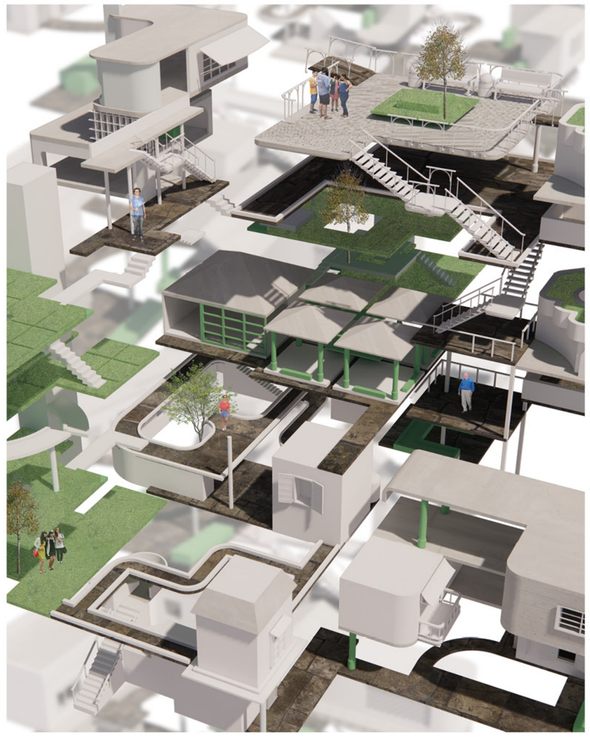
PERSPECTIVE VIEW (PART)

The above rendering is an aerial view of a typical section, showing the different functional groups in the zoning and the way they are connected to each other. In addition to the significantly concentrated parts, there are also fragmented units. For example, corridors separating and linking moving and static functions, and work areas that appear at any time to manage the corresponding areas.

RENDERINGS



A corner of the residential area



Public square as a transport hub