

# Portfolio 2018-2022

**Pinutcha  
Wiriyapanlert**

I have been in the architectural sector for more than four years, all the while studying design. As I learned more about environmental sustainability and design, I found that I was truly passionate about these topics. Many of the techniques I pick up in this course help me conceptualize the various fields that make up graphic and visualization

I see opportunity for myself in the emerging fields of conceptual and experimental material in the field of design



**Pinutcha  
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**Bubble**

Personal Information  
May 02,2000  
Bangkok,  
Thailand based

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### Language

Thai (Native)  
English (Proficient)

### Education

**2004-2017** MaterDei  
Institute

**2018-2021** INDA (International In Design And Architecture) Chulalongkorn University

### Abilities

Research and Analysis  
Architectural Design  
Visualisation  
Crafting and modelling  
Mapping Geographical Information  
Sustainabilty matrial

### Skills

#### Design tools

\* Adobe Illustrator  
\* Adobe Photoshop  
\* Adobe Indesign

#### 3D Modelling

\* Rhinoceros 3D  
\* Sketchup (Basic)  
\* Auto cad

#### Rendering

\* Vray  
\* Enscape

#### Motion Graphic

\* Adobe premiere pro  
\* Adobe after effect

### Awards&Competition

**2019-2020** Supercrit Nomina-  
tion- "The new comunity of marsh-  
land"

**2020-2021** Supercrit Nomina-  
tion- "Etching columbariam"

### Experiences

**2019** International workshop&Experience  
london, England

**2020** Design Build Project  
The archive of Autonomist  
:Using the method of aquaponics system into a newmethodlogy of new  
eco-cycle living.

Design Build Project  
pavillion learning center, Mae Hong Sorn, Thailand  
:Learning the constuction process from the pre-fab structure.

**2021** Internship at SAIL&SAHAAI  
ARCHITECTS  
:Training as interior designer & material research.  
Mitsubishi Elevator + INDA Design and Construction for community  
at Wat Photharam School, Suratthani

Wood Furniture Workshop

Infographic Video Introduce New Program curriculum  
For Thammasat Univerisity

**2022** International experience  
:Dubai Expo

FIRE

DRY

EARTH

01



Alive  
Architecture

04-07

08-11



The new  
community  
of marshland

02

12-15



Subterranean  
Dormitory  
Community Center

03

16-21



Etching  
Columbarium

04

22-25



EGGS FILTER

05

26-29



THE COUNTER BODY REACTION  
TO CAPITALISM

06

HOT

COLD

AIR

WET

WATER

30-31

# Alive Architecture

Year: 2019 Fall Instructor: Alicia Lazzaroni

Project: Pavilion

Location: Ueno Park, Tokyo, Japan

My project questioned the meaning and possibilities of alive architecture into "Alive Architecture", overcoming past metaphorical statements in favor of architectural devices able to grow, breath, flourish and decay.



# Research on the Metabolist architectural



In the first phase, I've studied Japanese "metabolism", with its theories on organic biological growth in urban environments. The starting point was the study of Pumpkin House, an unbuilt project by Kenji Ekuian, made from modular elements, that could be expanded or eventually shirked and reconfigured.

Metabolist architecture use "living" qualities as a metaphor, but I've decided to refer to alive architecture in a literal way.

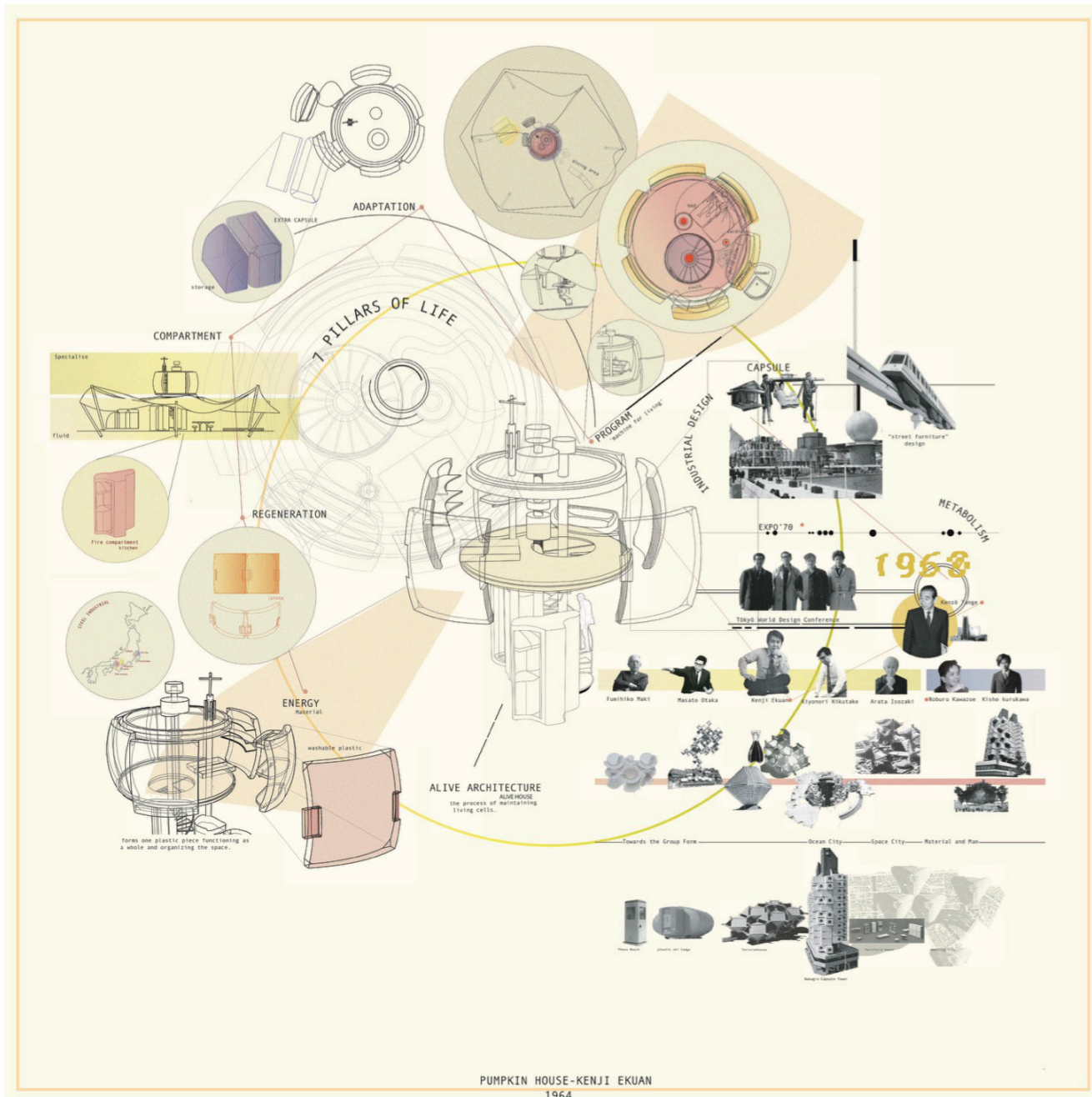
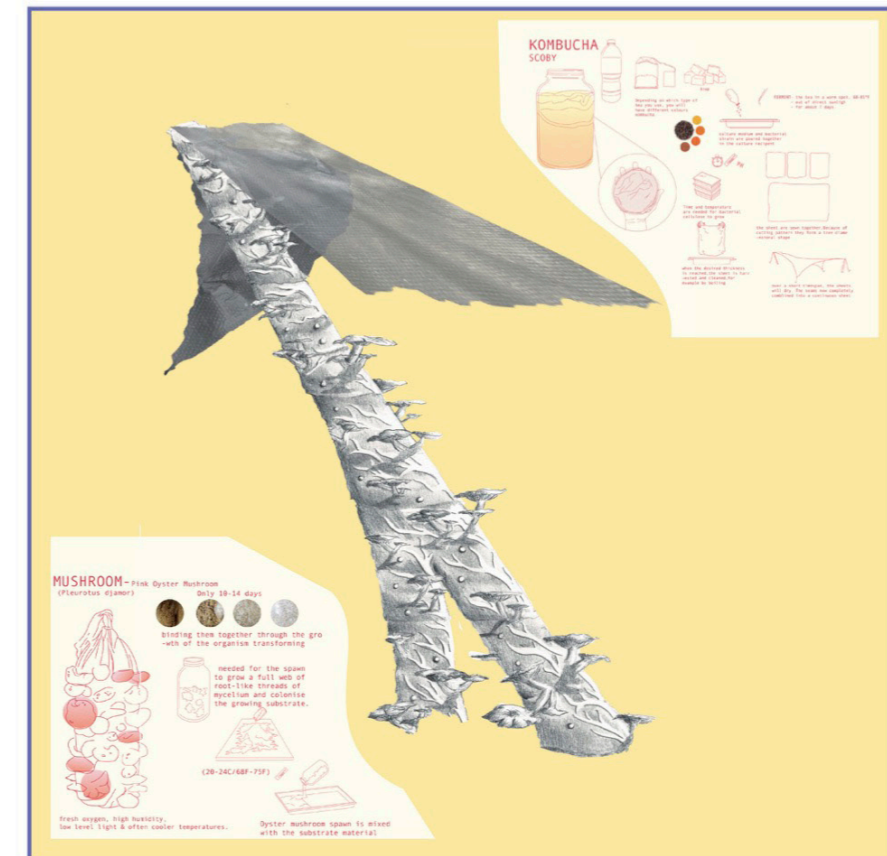


Diagram Analysis - "Metabolism Architecture": Pumpkin House , Kenji Ekuian

# Research on neo-material



Neo-Material experiment - Mycelium column and Kombucha fabric

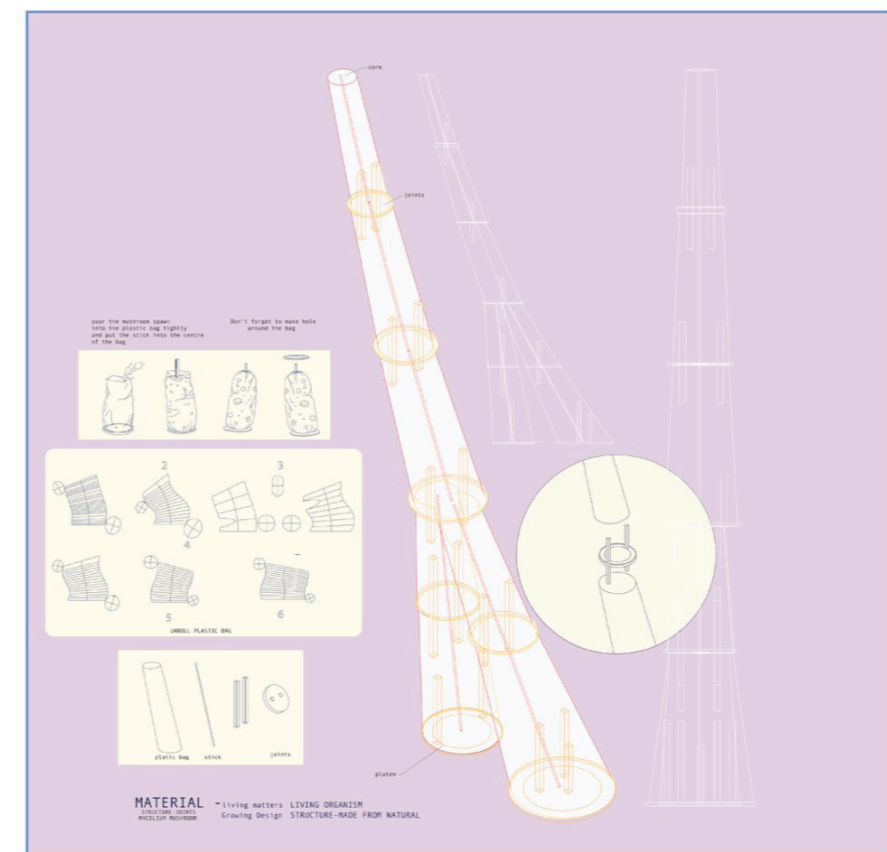


Diagram-Support structure and process construction making



## Module of the structure

The skeleton: The Wood Frame

-The recycle recompose wood frame mold inside with mushroom spawn then created mycelium and grown out the pink oyster mushrooms.

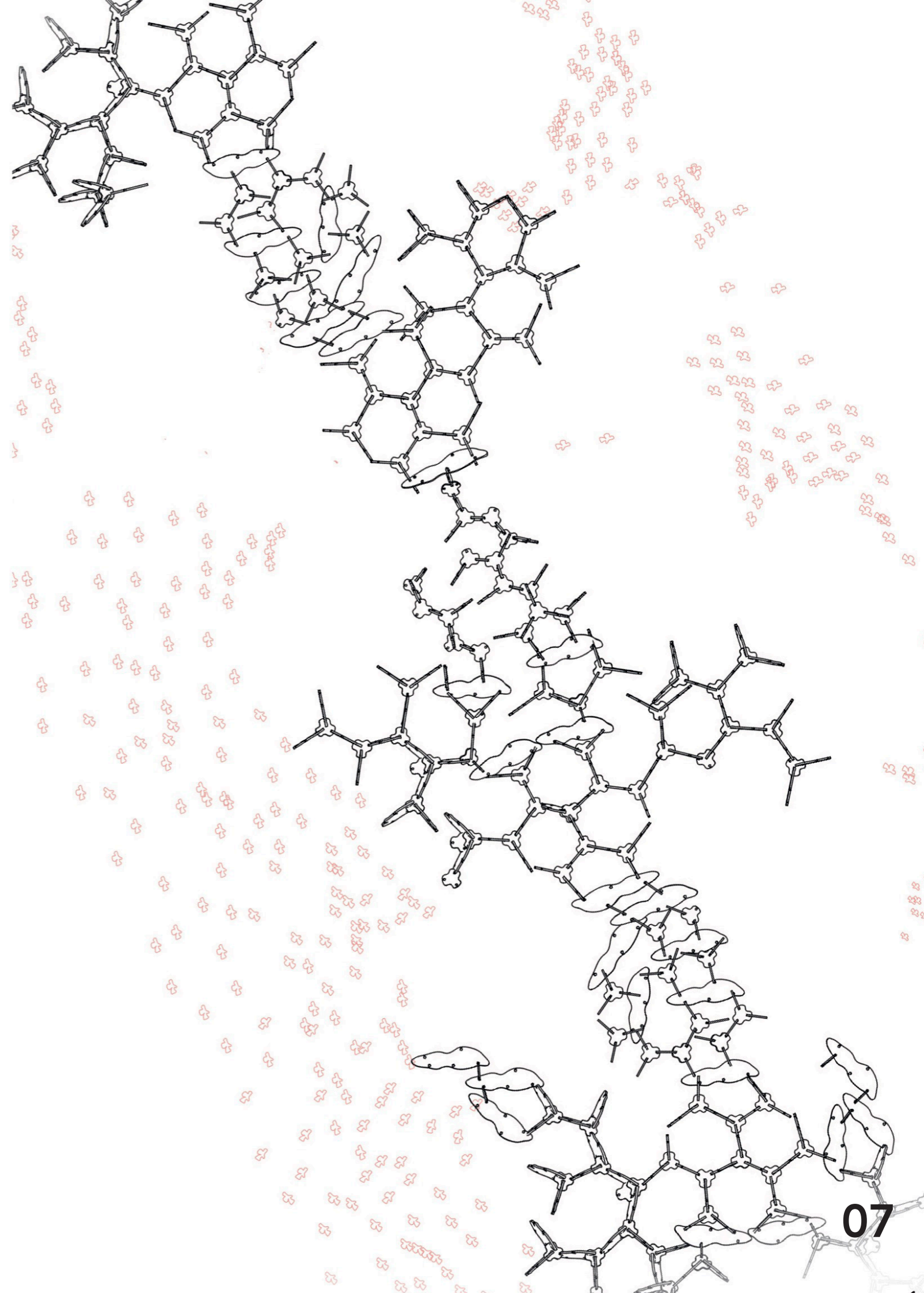


Wood structure framework(MDF)

Bio-Plastic: Reuseable  
--> retention of moisture.



Each of module contains the sprout of mushroom and natural base inside wood structure.



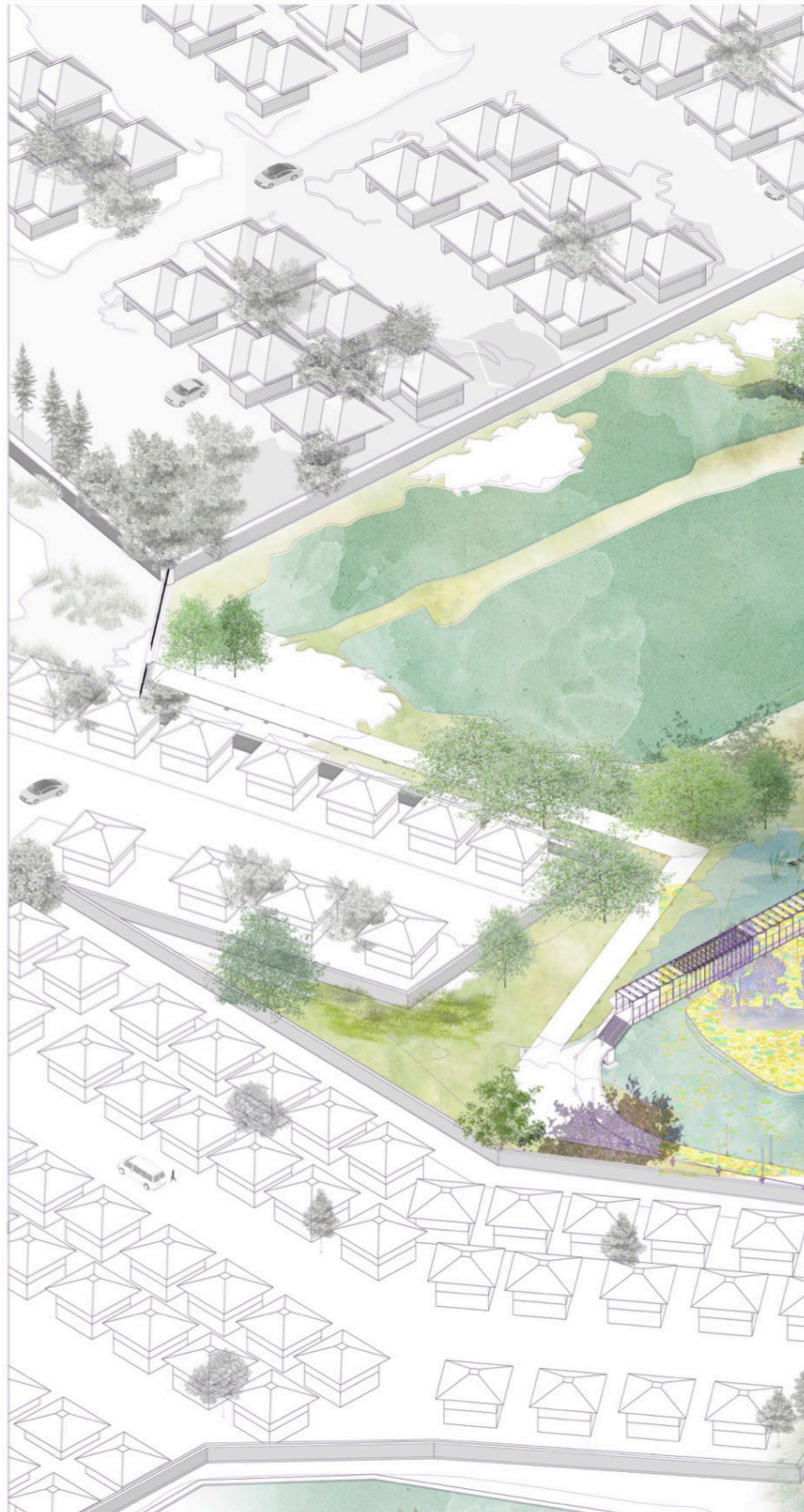
# The New Community Marshland

Year: 2021 Fall Instructor: Marie Louise

Project: Urban Planning

Location: Hua Kra Bue Community, Bangkok, Thailand

Bring the artificial island into a new kind of public space. Which also located in the old canal community. Also consider on the new and old community living.



Living Area



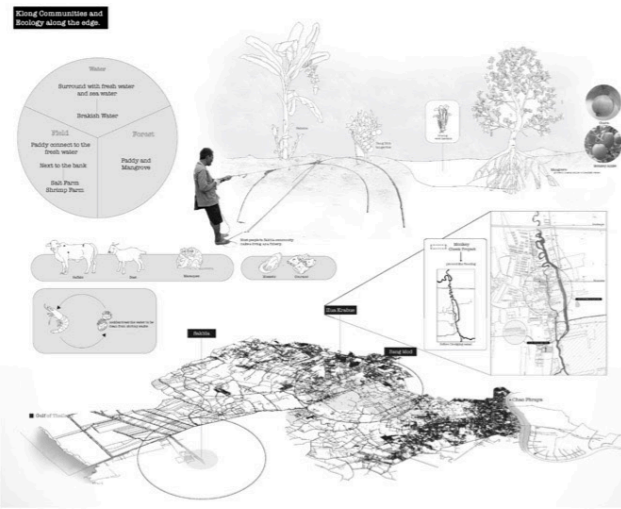
The New Community



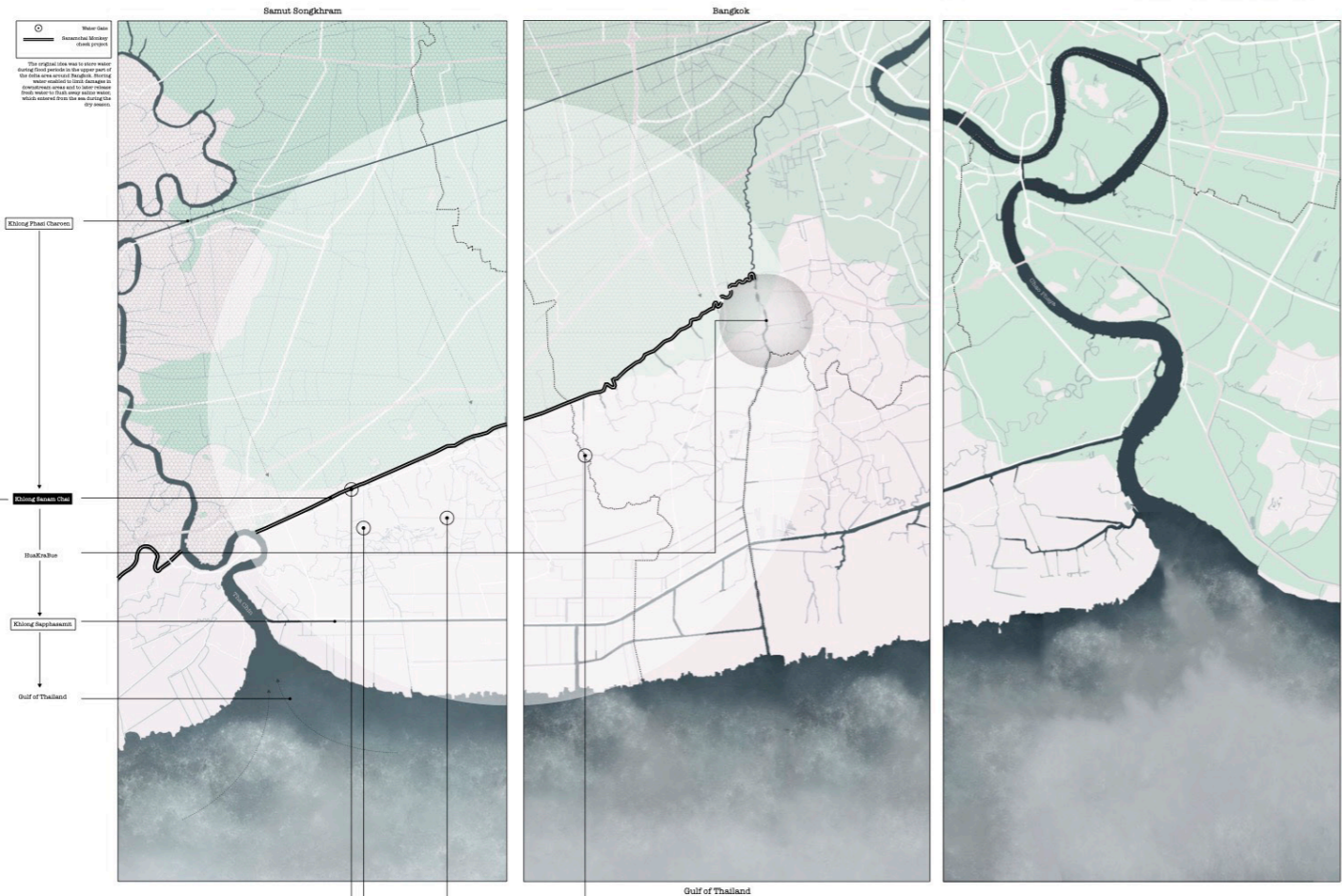
Mangroove



Over 100 years before, Bangkok was known as Venice of the east(Fg.01) . Along came the railway system that ushered in an era of mass travel, followed by the building of many transport routes. As people's lifestyles changed. In the present day, there still have canal communities leftover in Bangkok, some are still living with their tradition and culture but some changes follow present society. As known as, Bangkok is the major of a metropolis, there are many canal community that still lives today. Thai people living identity as a water-base. The unique characteristics of a city along a largeriver or canal are referred to as a water-based community's identity.Its residents' way of life is closely linked to water, and it is known as a water-based culture.



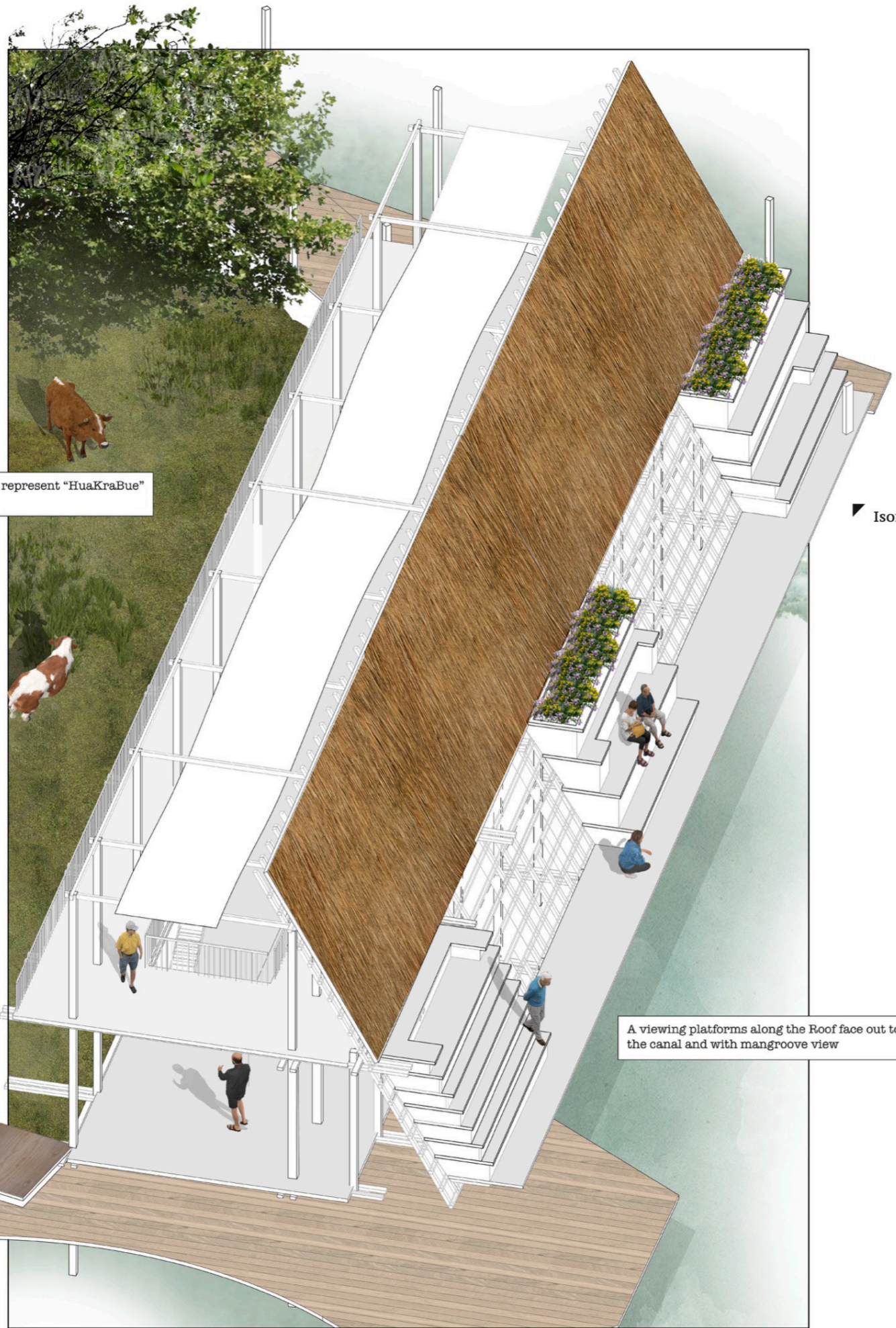
The area of the Bangkok metropolis is lower than the sea level, it causes a many affected is sometimes about the flood in some area and the drainage to the sea. So, this was the Project was called "Monkey Cheek"



Mapping Drawing-Monkey Cheek Project Plot Mapping.  
Mapping Drawing-Hue Kra Bue Community and plan of the existing.



The monkey cheek Project area has an old canal community, which called "Hua Kra Bue" (Hua means head and KraBue means Cow and buffalo). This community started in the Ayutthaya period when Trade with Europeans was lively in the 17th century. HuaKraBue canal is a support canal that helps water drainage to the sea. And used to be a short-cut route to the capital by not have to pass the main river.



Group of cows which represent "HuaKraBue" community.

A viewing platforms along the Roof face out to the canal and with mangroove view

Section-Pavilion



01



02



03

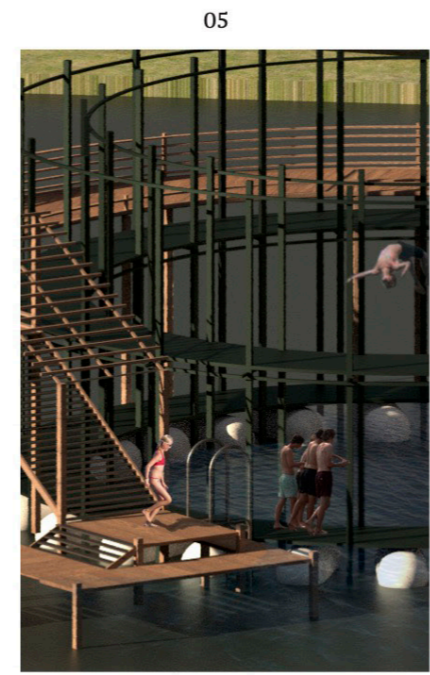
This Pavilion inspire from the "Sala" and local material. The elevated point of view located on the roof and turn to face to the canal with the mangrove scenery.

Isometric View-Water Pavillion

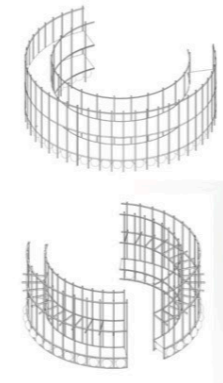


04

This Proposal infrastructure connect between land and water, And also combine the relation between people in community. Preserve the natural (ecology). Reflected the Cattle Lives Saving-rehabilitate the community. (Identity of this community) Develop the Canal living Connected between old and New Communities



05



floating structure is a connection between land water and the island. it connected from pieces by piece into the semicircle which can be arranged into the new form follow the function, assembled using the balloon tank to keep floating.

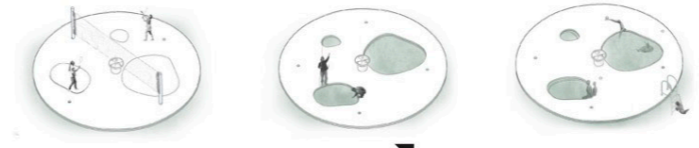
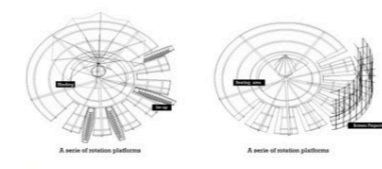
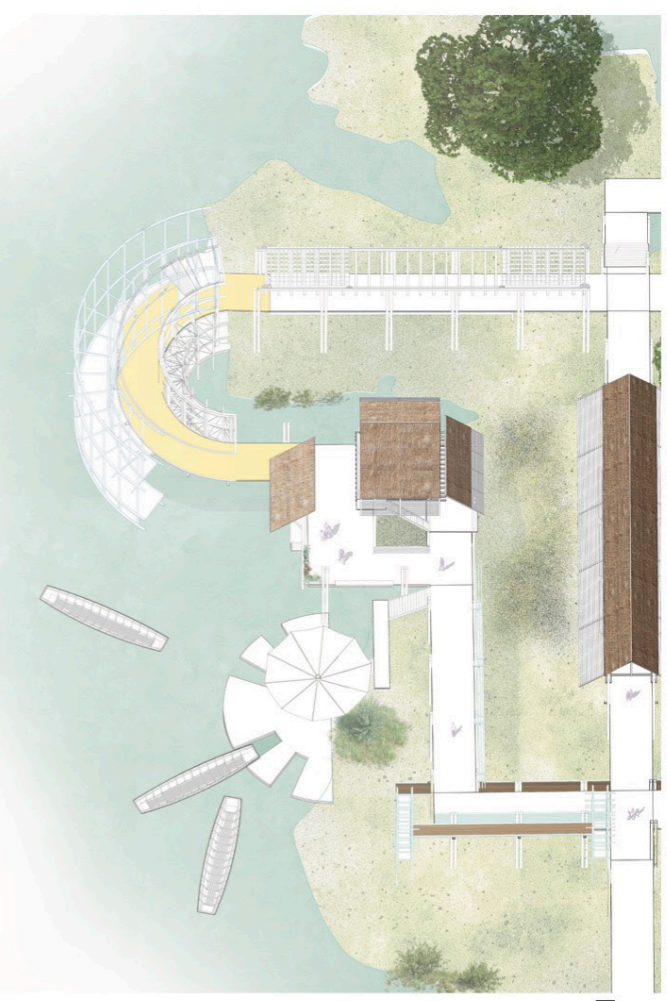


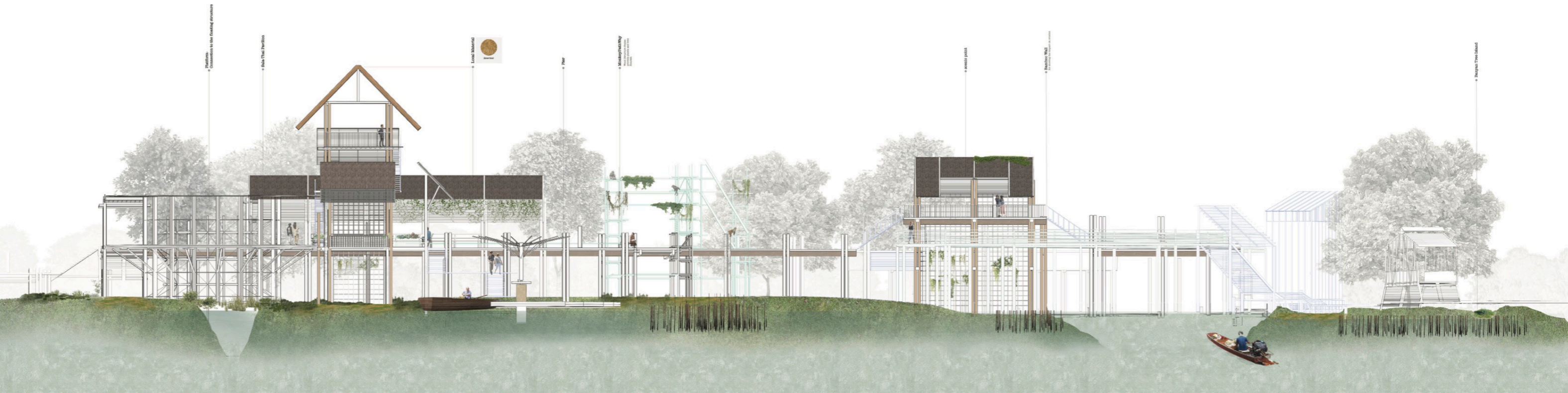
Diagram-Rotation Platform adjust with floating devices.

the circle shape go over on different layer. Every rotated follow the fuction Pier Rotation



Drawing Top View-Relation between Land and Water.

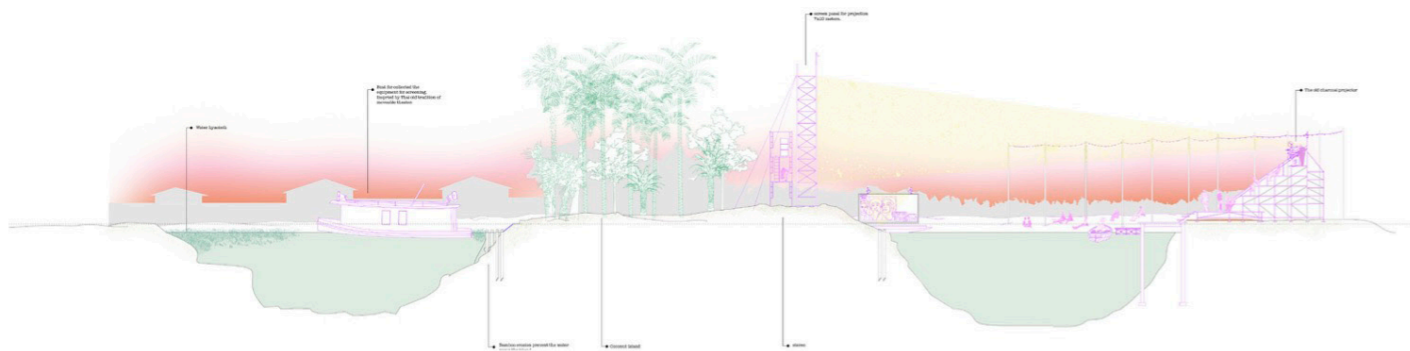
The strategy of edged through infrastructure, the structure will be located on three islands and also connect to their original pedestrian along the canal. the floating structure is the connection between land and island and does apart as a bridge. Secondly, The permanent infrastructure, and third was the pedestrian. Infrastructure defines as a connection, in terms of physical and program that acts as an interaction between people. This civic infrastructure located on the island along the canal and between the new and old community.



Section Drawing - "The Natural Trail & Pavilion Relation" ▼

The program related to the physical and landscape of each island. Floating Marking, Outdoor Theater, Natural trial, and pavilion. All of the structures made of timber structure and local material, The structure frame allows the natural light to let pass through the land below, easy to arrange and not disturb the natural environment. The floating infrastructure also rearranges in special conditions and also be connected to the permanent infrastructure.

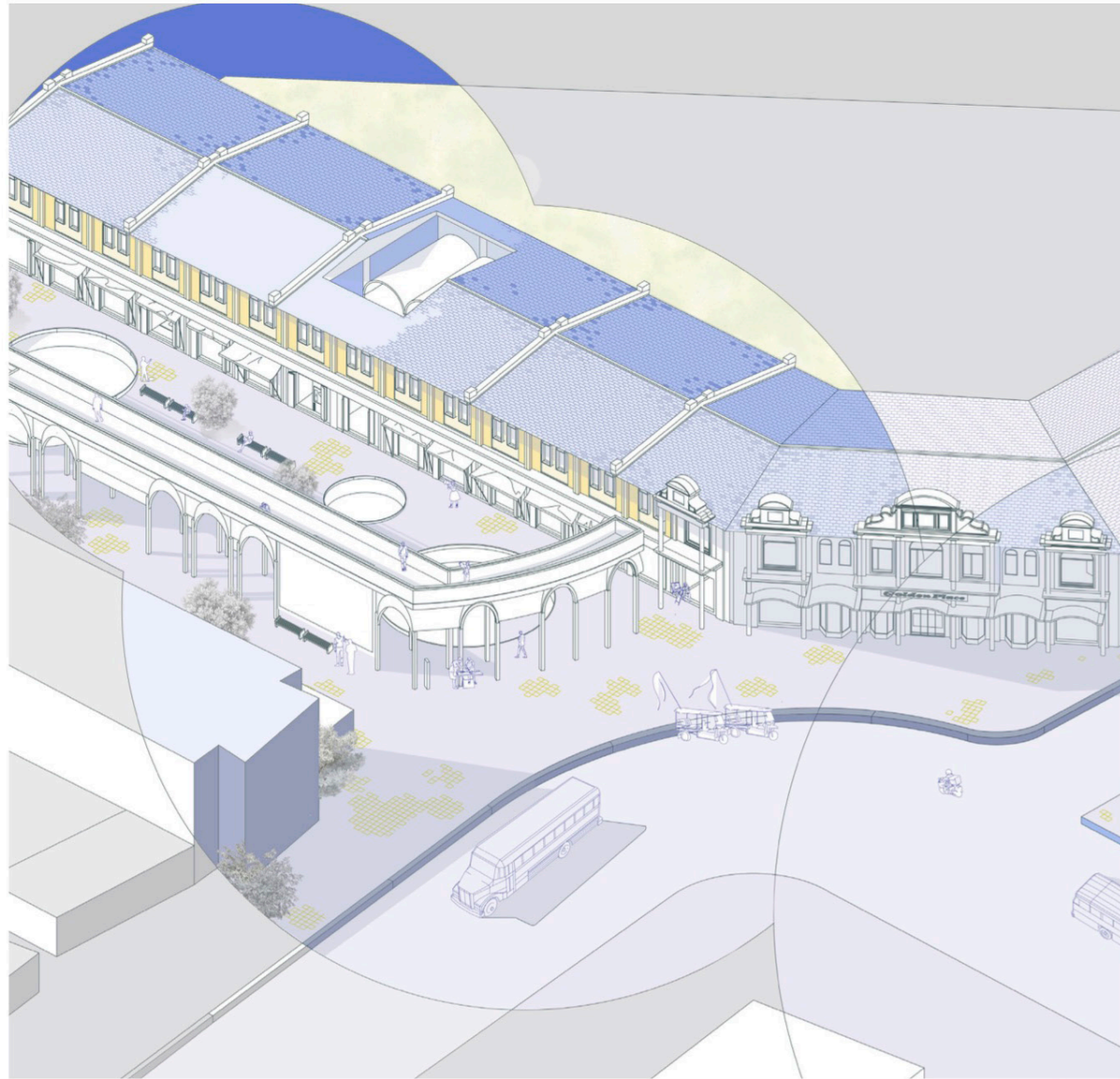
To conclude, the Cause of the different ways of living, the diverse nature and condition of the land. Bring the idea of how to combine all the community and how to bring the civic encounter to HuaKraBue Community. Not just the infrastructure but also the relation in terms of activities. Not only the tourist but also the local people can take benefit to have an income for living. Moreover, the animal and natural not going to be fade away, they also consider in every part detail. This Civic infrastructure also brings back civics to the community.



# Soi(l) Space

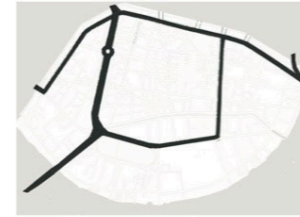
Year: 2020Spring Instructor: Payap Pakdeelao  
 Project: Urban Community  
 Location: Tha Tien, Bangkok, Thailand

The Subterranean community project showing the diversity of student between three university living and community site in Tha Chang, Which is allowed in the conservation area with the historical background. Tha Chang, Wang Luang, As known as a pier that student from Slipakorn usually took. Most of the area around the pier is a market and shophouse for selling a souvenir and street food. This pier next to a lot of attractions, Grand Palace, or Temple. Tha Chang performs as a connection between Tha Maharaj or Wang Lang Pier. In front of the Old yellow building was an open space for a market stall.



## Research and Site analysis

Phra Nakorn District is a conservation area which contains a lot of historical. People in this area familiar with a student from Thammasat University, Slipakorn University and Bunditphatanaslip Institute. These Three campus located along the Jao Phraya River. The space around the site restricts space and height of the building. Some facility inside the campus has an underground floor whether it be a library, parking lot or corridor.



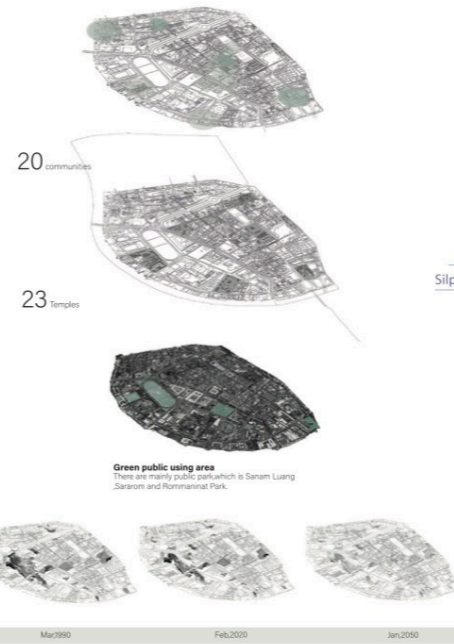
**Transportation Network**  
 Major Ratchadamnoen Rd. and MahaChai Rd.



Campus Area

Subterranean Communities

Library



20 communities

23 temples

**Green public using area**  
 There are mainly public park which is Sanam Luang, Saran and Rommanat Park.

Mar2010 Feb2020 Jan2020

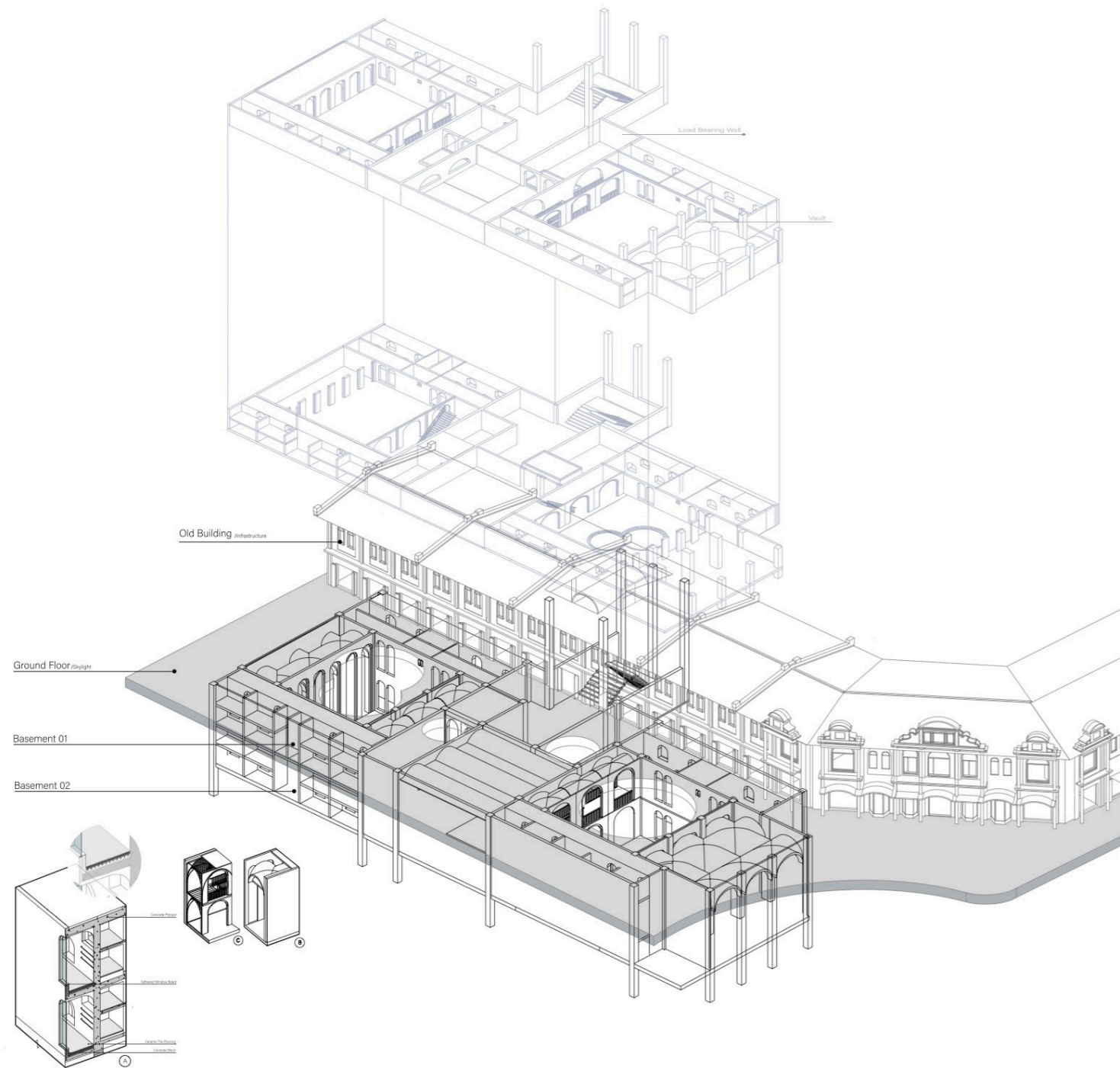
Bunditpatanasilpa Institute  
 Thammasat University  
 Silpakorn University



**Zoning plan**  
 Historical zone  
 Commercial zone  
 High density housing zone

### Phra Nakhon District

Kurt Phra Nakhon. Considered as an old town conservation area. A historical and cultural attraction on the Bangkok side due to the large number of important cultural and political place.

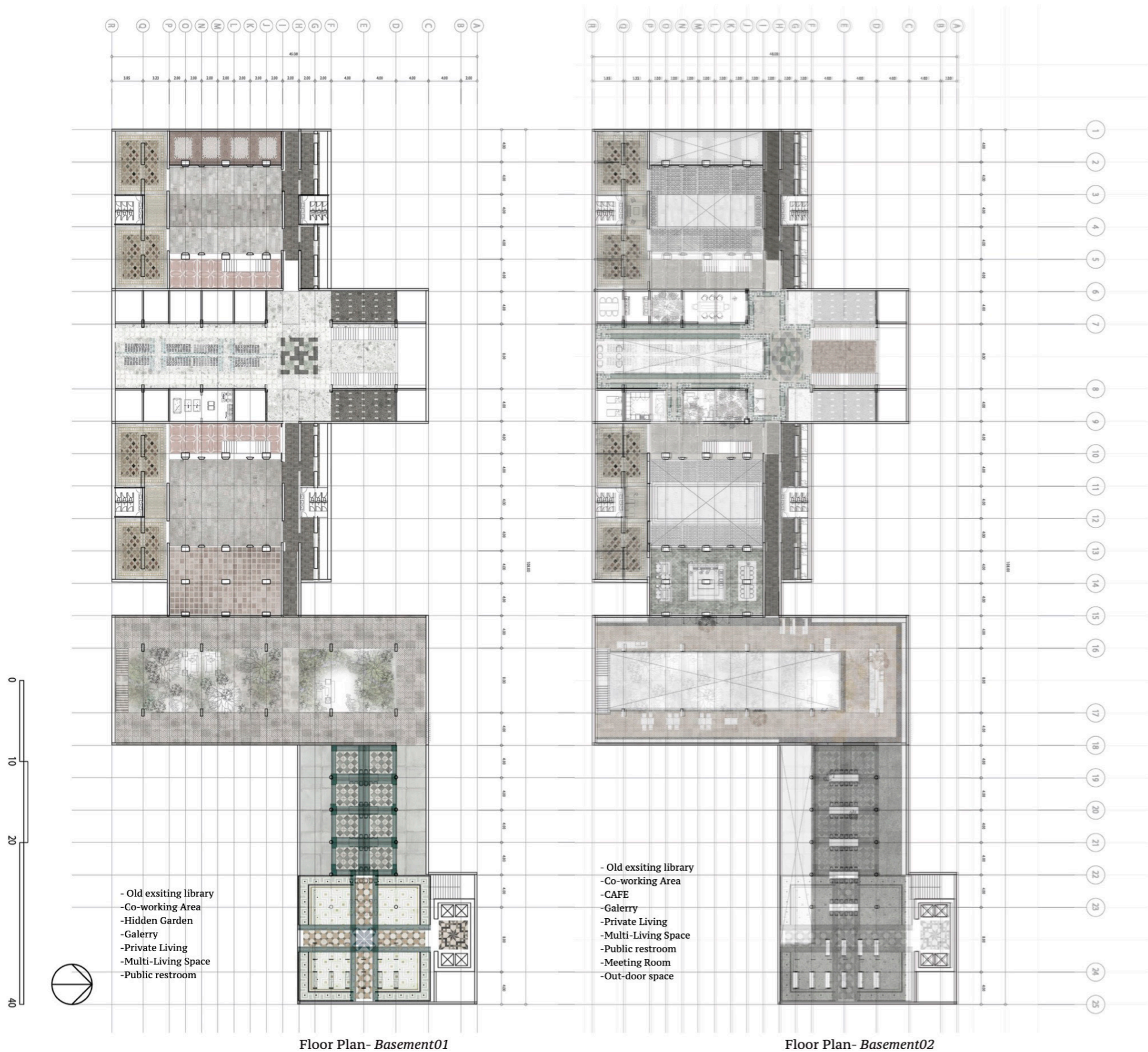


Isometric Section Cut  
-The structure detail.

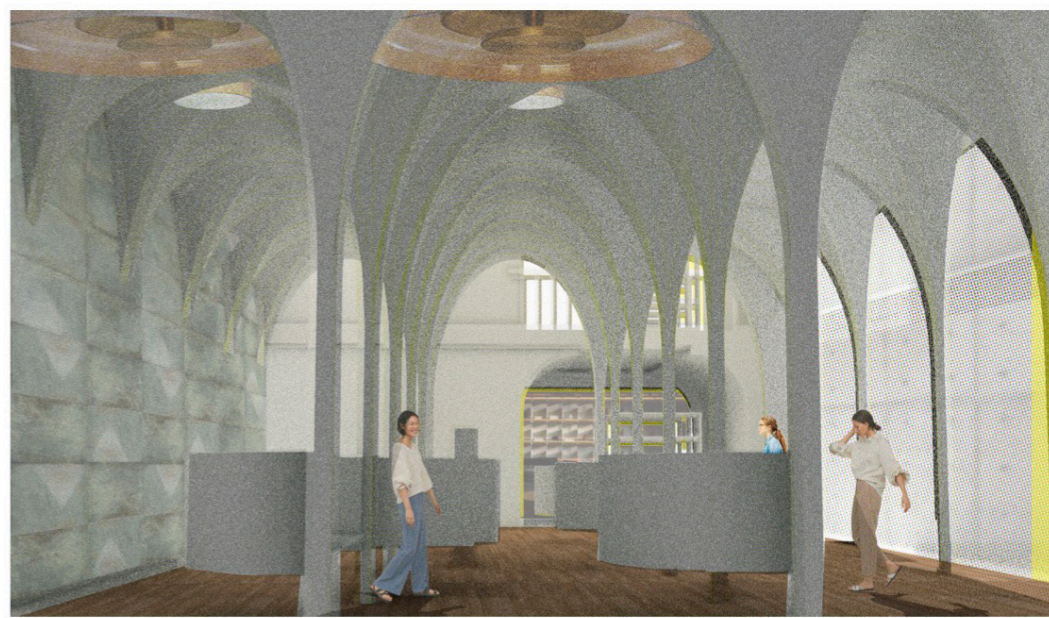
3d StructureDrawing- Explode plan

According to the student's lifestyle and living conditions, the subterranean housing and communities blend living culture between above the ground and new existing underneath the ground together. By still using some of the structure of an old building



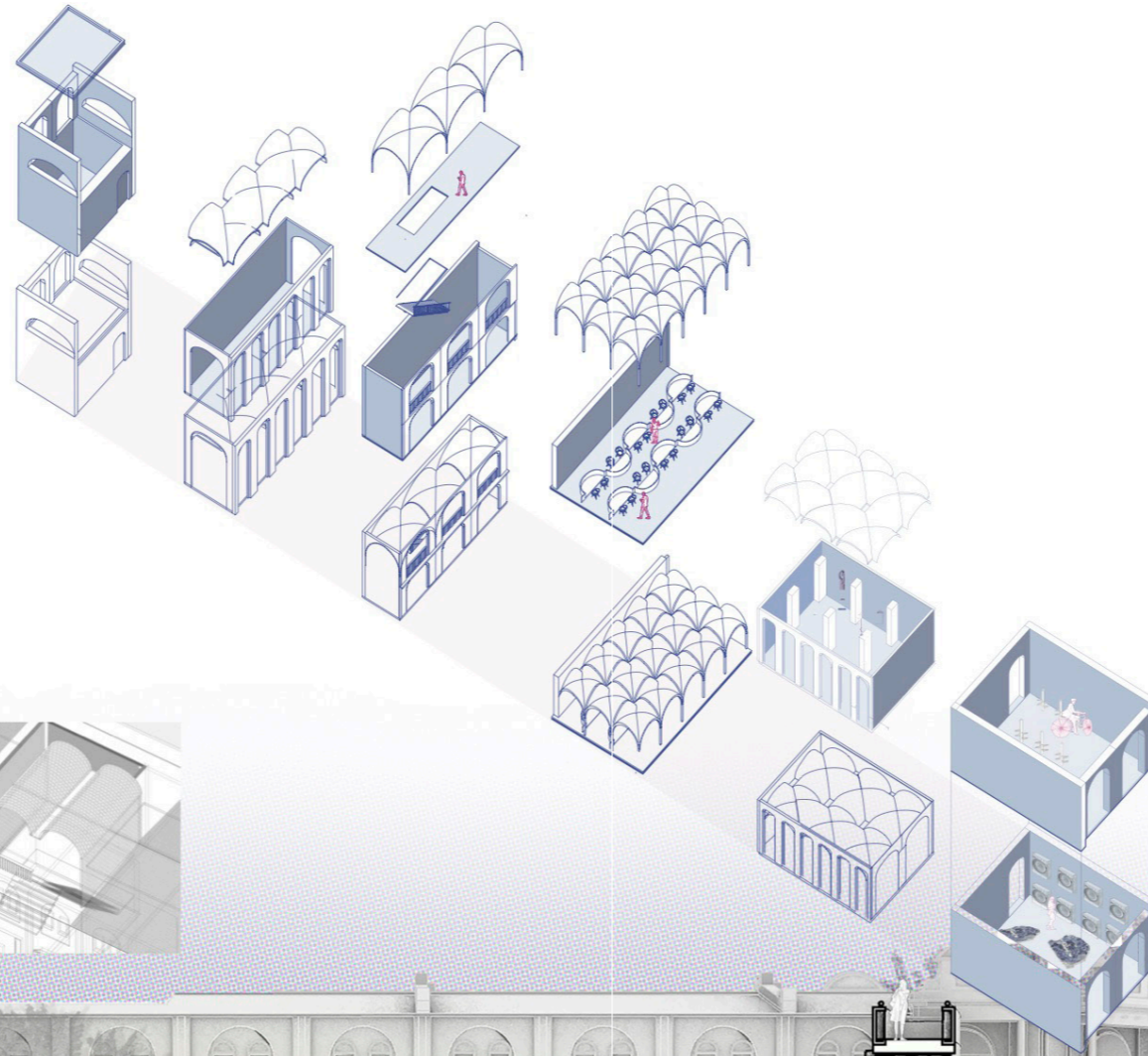


Perspective-Common Area.



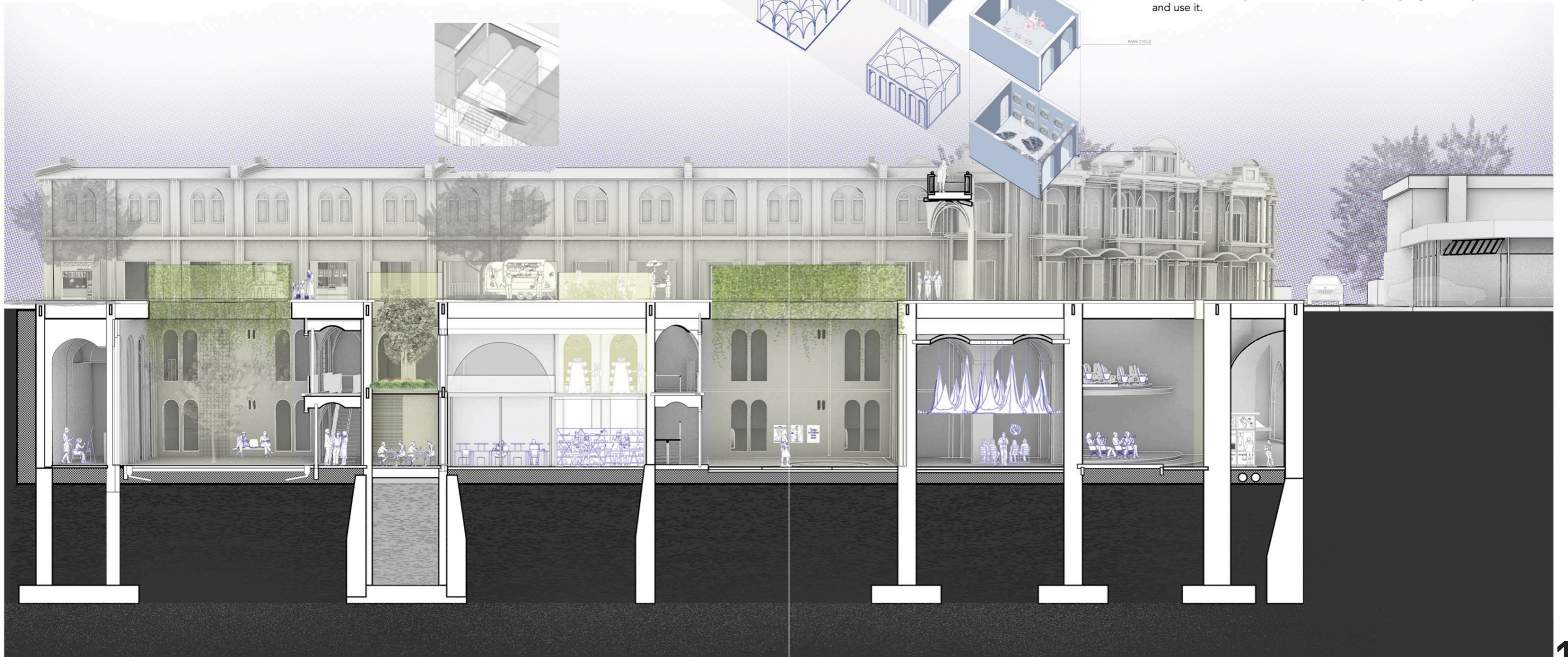
Perspective View - The Underground Library.

To be the connection between the ground and the underground. Deeply to the ground, the communities intending to expand the common space and sharing space between student and people around the site. The facility support to the student activities and lifestyle, Gallery, workshop/Lab, student lounge. The way that arranges the space to be a cluster And rooms do part as a cell. The residential part is a temporary space. Follow the idea of sharing space follow the student living and people on the site. The skylight shows the relation between people above the ground and underneath the ground and also let the sunlight to get through.



Atmospheric of the site  
The Relationship between People above the ground and Underground

Somehow, The students doing part as one important factor that makes the community around there driven in every day., This subterranean connect people in the community, students in each campus or tourists firmly. Not only in term of infrastructure but also the way of living. And have more space for student and people in the community to have interaction together. However, It doesn't mean that this community was made for Just only for a group But everyone can asset and use it.



Section cut -the Main Public Area

# Etching Columbarium

Year: 2021 Spring Instructor: Takanao Todo  
 Project: Building  
 Location: Petchaburi Rd., Bangkok, Thailand

## Research on Sudden Death Architecture

1st Phase- definition of sudden death in term of architecture by choosing the impact traumatic event "9/11". The impact of the event through infrastructure and lost people. The World Trade Center Twin Towers were a symbol of New York City and the strength of capitalism. In 2001, a jet attacked the north building. Almost half an hour later, the south tower crashed and erupted. The Twin Towers collapsed due to the impact and fire damage.

After September 11, just Ground Zero remained, and it is now a 9/11 memorial. This memorial gathers memories and artifacts from that time. This place not only serves as a memory but also a transmission.

People's recollections are transformed by place. But a memorial was built to honor a person or an event. In various ways, this memorial can sense the feelings of the users.

This awful event impacted people not only in the state, but globally. It was entirely unexpected and had never happened before.

Timeline Diagram- 9/11

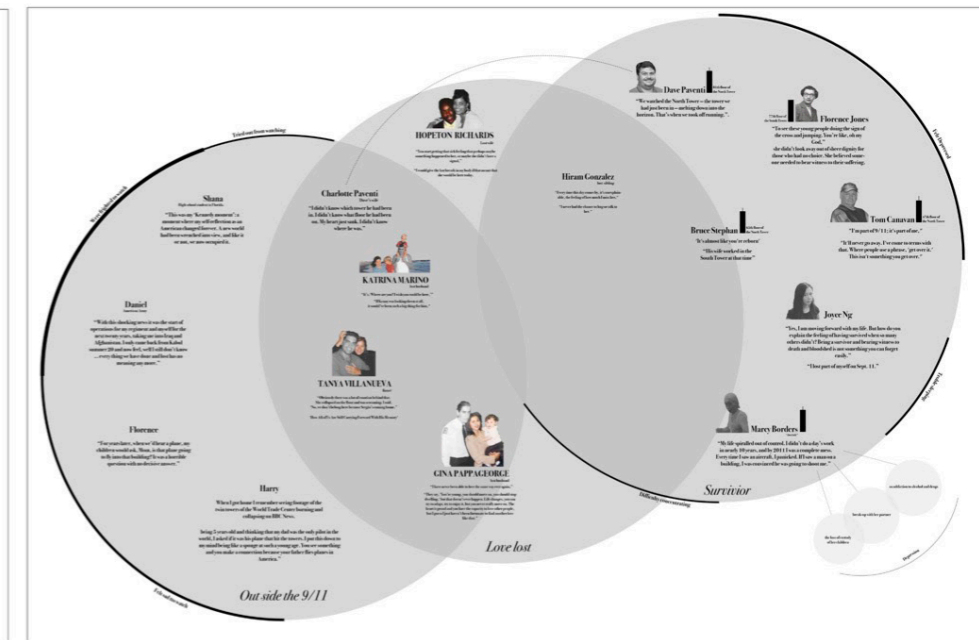
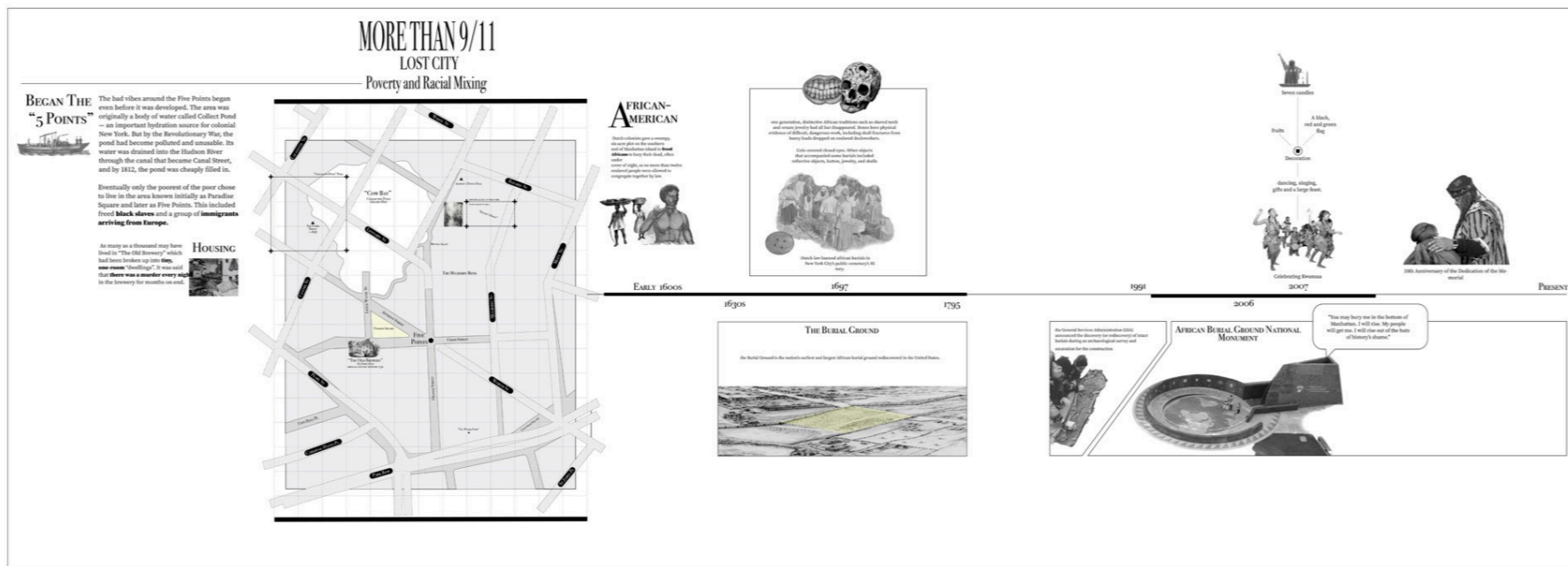
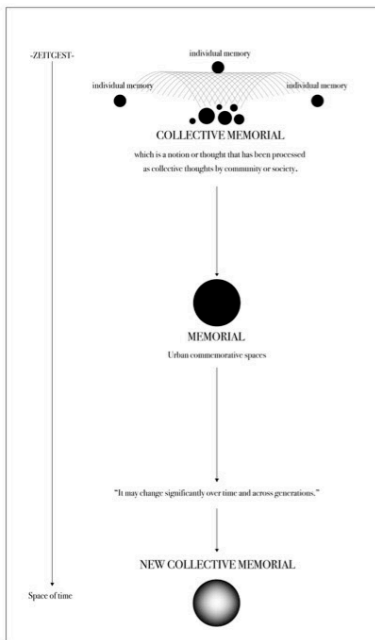
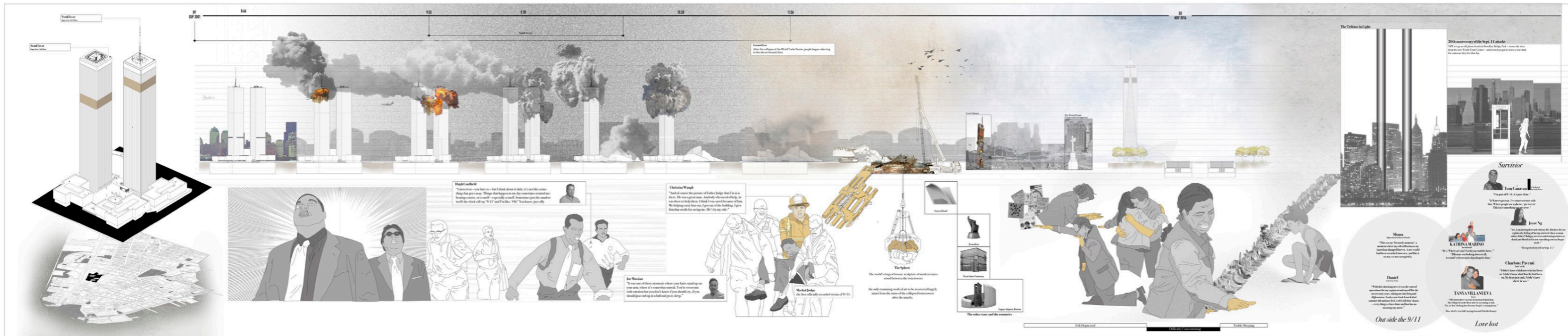


Diagram-Collective memories

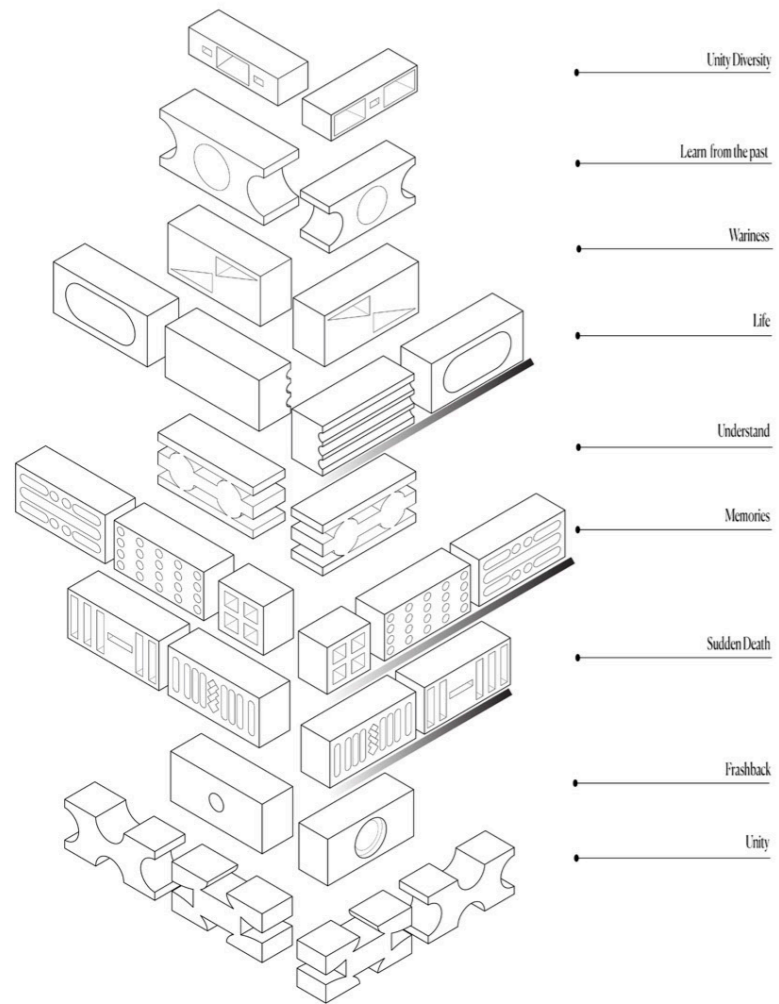
Diagram- show the effected of people who lost from 9/11

Timeline diagram-The burial ground and historical material of black people have been demolished from the 9/11



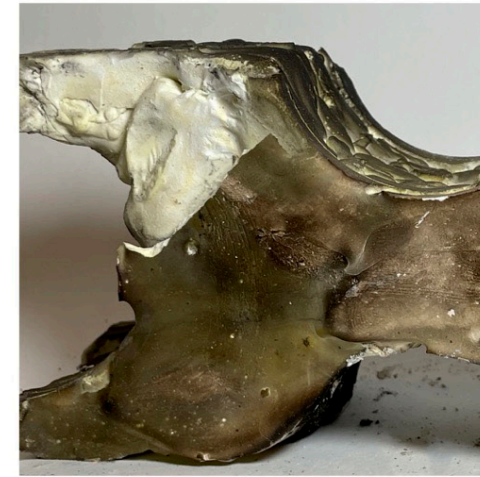
## Design material prototype

According to the conceptual and construction method, the concrete block represent as a individual memory and the candle is a traumatic feeling experience. Then stage of fire is burn out the tragic experience out, called catharsis  
The smoke etch and new type brick form symbolize the trace of feeling that were there.



► Photograph-The transformation of stage of catharsis by using architecture material.

Photograph(Zoom in)-The etching and burning texture after burning with fire pass through the catharsis. ▼

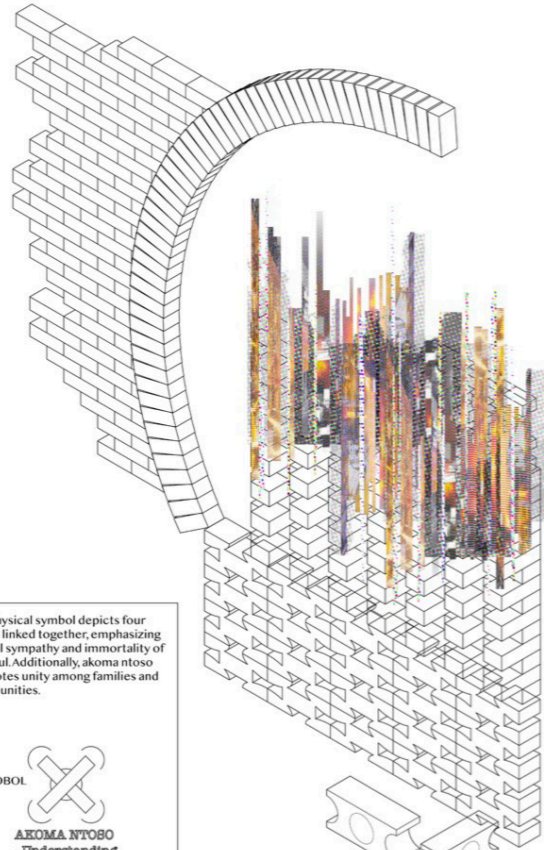


# Catharsis stage through the material process

Catharsis: the process of releasing, and thereby providing relief from, strong or repressed emotions.

Photograph(Model)-The burning part is represent the action of catharsis.

Photograph(Model)-Before the ritual of catharsis : the wax candel being as trama events or overwhelming feeling.



### STEP03 Take time and heat it up

Heat and fire melt down all the candle left over the part that it use to be

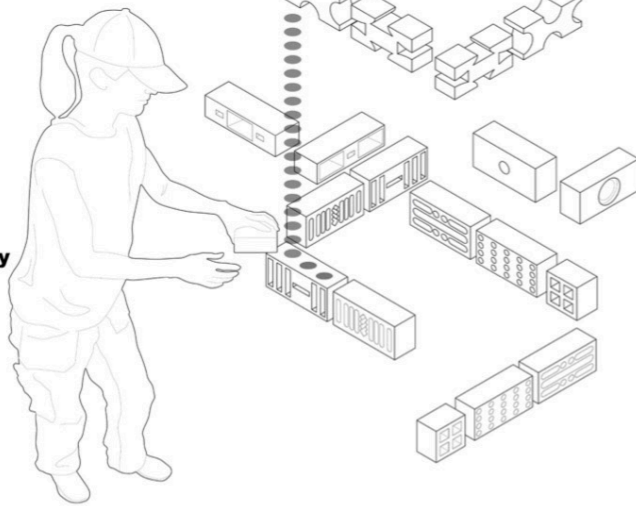
### STEP02 tragic memories shape into a form and effected to the body

**CONCRETE**  
the concrete block represent as an individual memory  
**CANDLE WAX**  
Represent trauma event or break down situation in life. The heat when burn itself as a time goes pass through to healing mind and body.

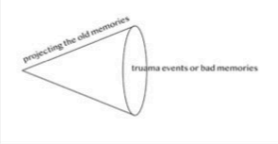
The physical symbol depicts four hearts linked together, emphasizing mutual sympathy and immortality of the soul. Additionally, akoma ntoso promotes unity among families and communities.



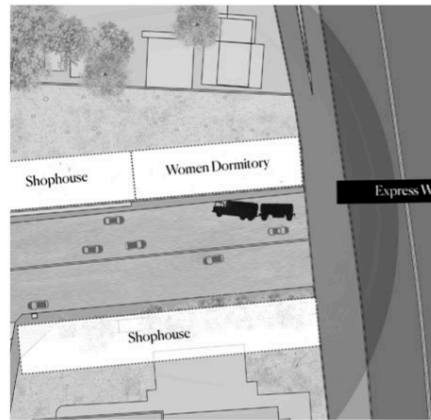
### STEP01 Blank and empty of though.



**Flashback**  
when memories of a past trauma feel as if they are taking place in the current moment.



## Site-Trauma Footprint



The site is located on Phetchaburi Road, where an incendiary bomb conflagration screen is shown. Each part of the building sends a message from generation to generation with different meanings and functions.



Plan-The screen of Gas Car Exploded.  
Photograph(A)(B)- The Moment of Gas Explosion. The surrounding building.

## Design Strategy

The columbarium of memories contains the tragic feelings of people who have passed away or lost their PTSD symptoms. Work Your Way Through Each Individual Brick.

Arrange to stack into the infrastructure's structural framework. The brick is a simple construction material, but it reflects the individual's phenomenal experience passed through shape and form.

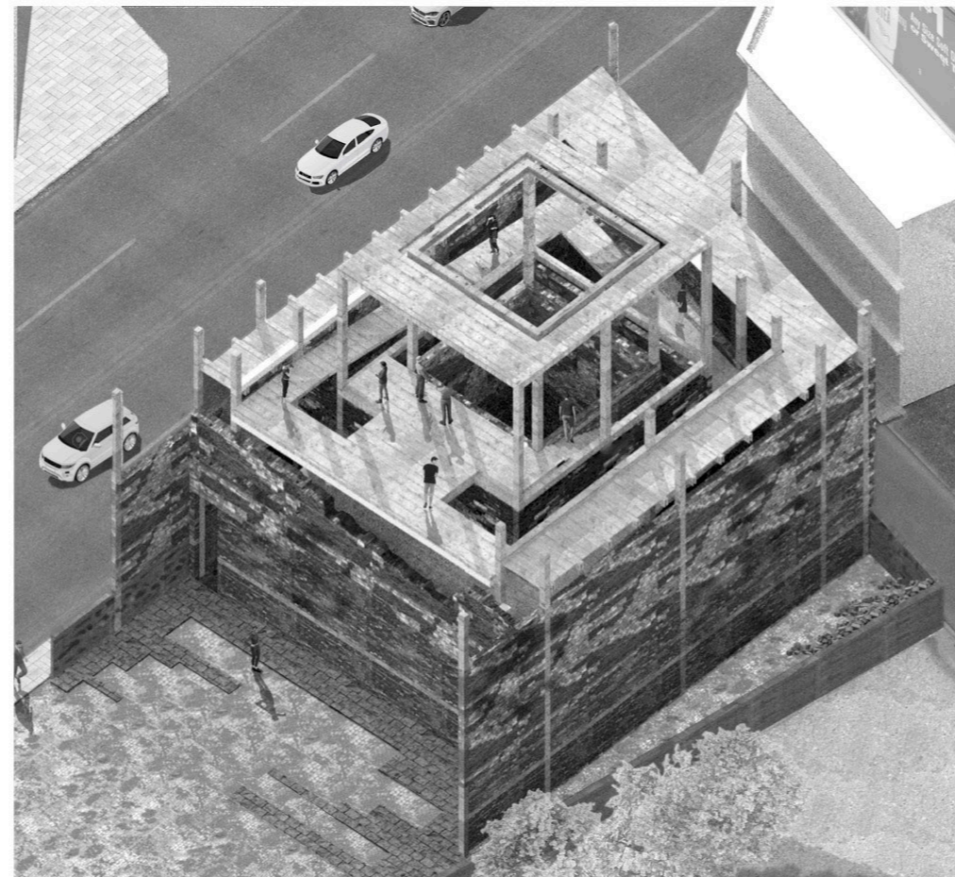
The construction ritual combines the universal belief in a candle with the concrete building material. According to the conceptual and construction method, the concrete block represents an individual memory, and the candle represents a traumatic emotional experience. Then the last stage of the fire burns out the tragic occasion, called catharsis. The smoke etches, and a new type of brick form symbolizes the traces of feelings there.

### 1 st Stage



1st stage started from the people in the community who still live in the site and lay out the space mixed between old existing wall and Ritual brick wall

### 2 nd Stage



By the strategy concept would be develop to shape up the columbarium. And got attention from people outside the community by the social media as instagramable

### 3 nd Stage



This is a last stage when the existing complete, this community would be change and gain more attraction from people outside. The function of this place would might change follow the user but the place itself still remain to the ritual and memories from the past pass through the structure and material

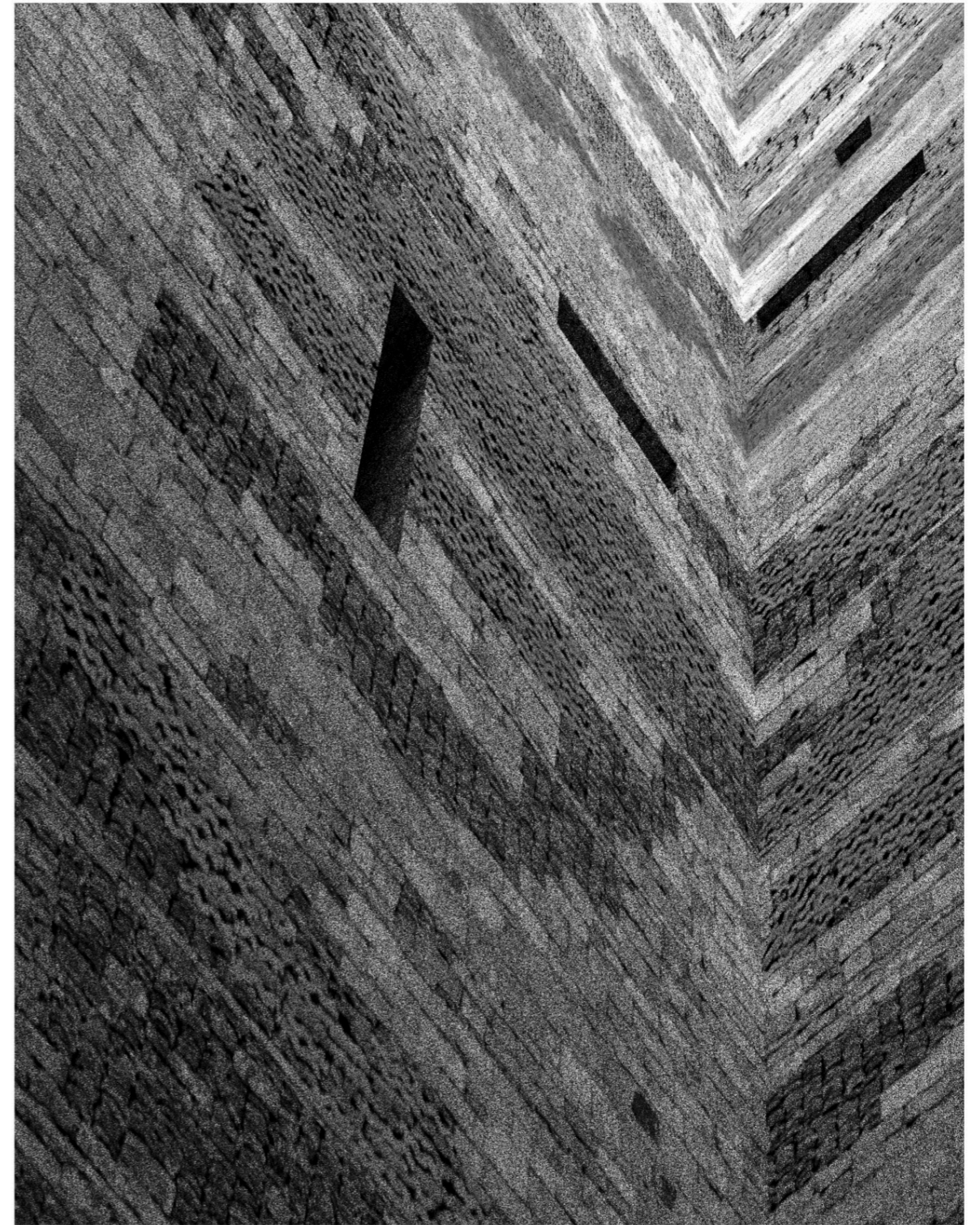
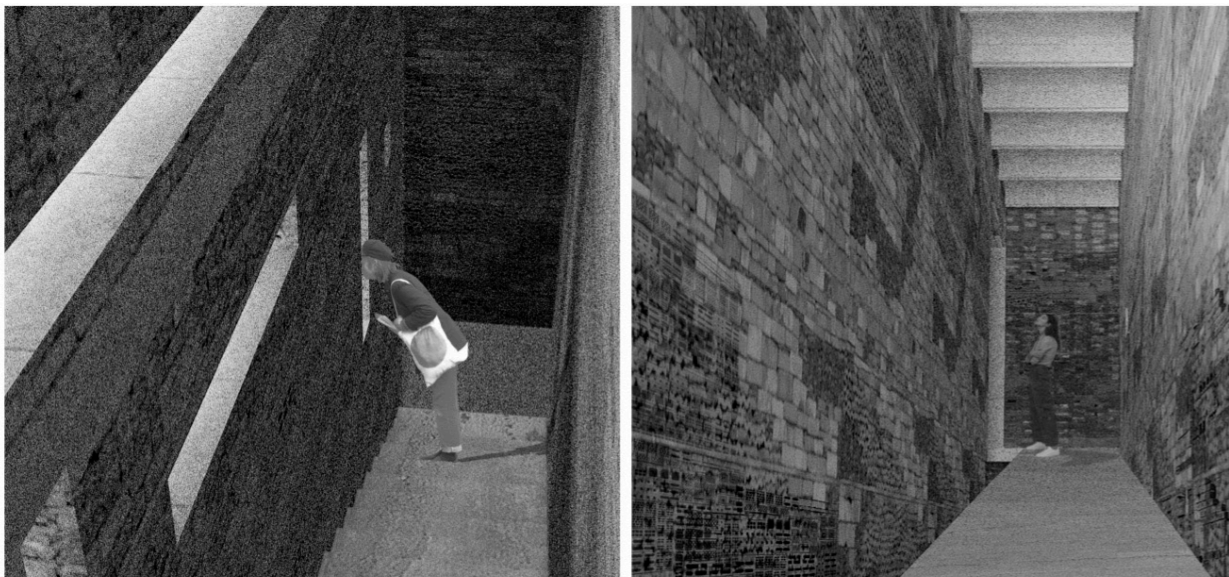


## Chamber of reflection

-The path way create for people to sense in every parts of movement while you walking up to the chamber of reflection



Interior visualize- Core walking chamber of light



Interior visualize-Inside of the chamber of reflection

The first stage- People will experience the walk way which surrounded with the old existing wall and columbarium wall. The wall will have the individual hand-made experience expression of sentiment following the construction procedure. Ultimately, the first stage of the path would rise upwards into floor third and convert into the chamber of light.

For funerary containers, the chamber of light would serve as a high-ceilinged ceremony hall as well as a vertical cemetery. Each would tell the story of the past, present, and future from its own unique point of view. This chamber supply the open space on the top and, let the nature light come in the space.

# Eggs Filter

Year: 2021 Spring Instructor: Benlert  
 Project: Urban Planning, Experimental Material  
 Location: Makkasan District, Bangkok, Thailand

From discover waste material using in the market. I decide to focusing on the food waste that people usually throw away is eggshell and animal bone. So, I started to experiment on change waste into construction material by combine concrete or other material to change to make it more durable and become a new source of alternative construction material.

"The Eggshell(ter)" aims to change the environment in the whole area of Bueng Makkasan by using the eggshell to become a main material to filter the atmosphere and water treatment along the highway on Bueng Makkasan by the divided into 2 part of design purpose. Form of the tower filter and panel have been study from biomorphic and the nature form adapt to the geometry and structure.

## Egg shell

Location-Nang Loeng market-Market

### Process:

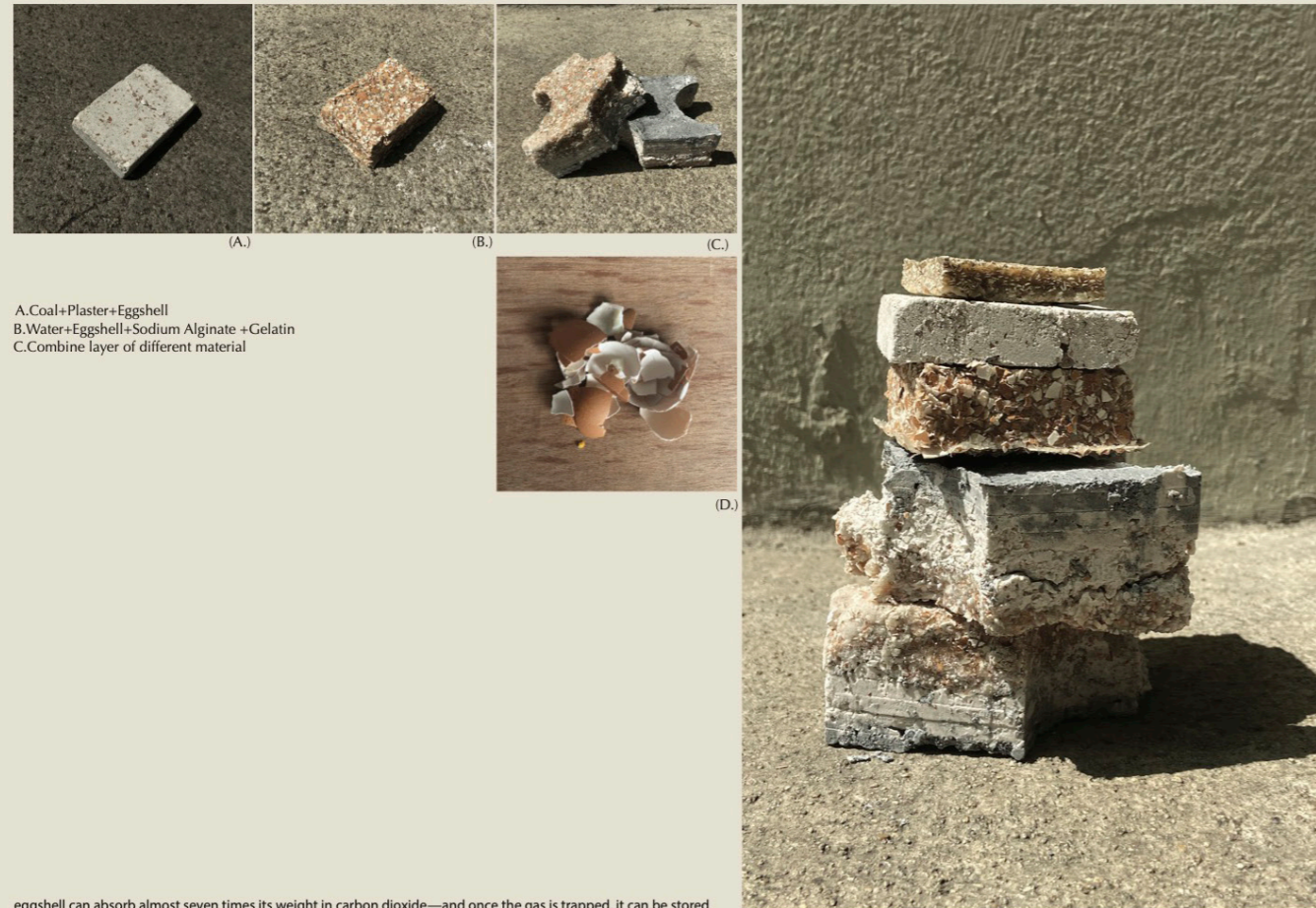
Ground, Molded, Cast, Mixed, Grinded, Air Dried

### Tools:

Grinder, oven, mold or form

### Composition:

Water  
 Eggshell  
 Sodium Alginate  
 Gelatin  
 Plaster  
 Coal



A. Coal+Plaster+Eggshell  
 B. Water+Eggshell+Sodium Alginate +Gelatin  
 C. Combine layer of different material

eggshell can absorb almost seven times its weight in carbon dioxide—and once the gas is trapped, it can be stored.

### Experimentation 01

## Animal Bone

Location-Nang Loeng market-Market

### Process:

Ground, Molded, Cast, Mixed, Grinded, Air Dried

### Tools:

Grinder, oven, mold or form

### Composition:

Water  
 Animal Bone  
 Sodium Alginate  
 Plaster  
 Coal



### Experimentation 02

## INCENSE

Location-Nang Loeng market-SHRINEA

### Process:

Ground, Molded, Cast, Mixed, Grinded, Air Dried

### Tools:

Grinder, oven, mold or form

### Composition:

Water  
 Plaster  
 Incense ash

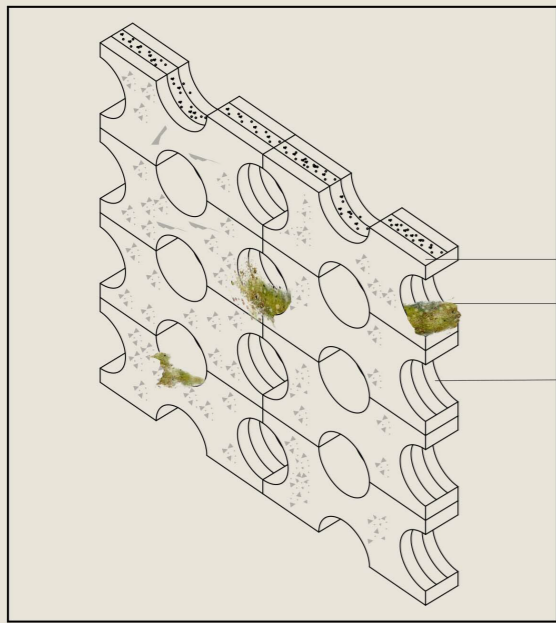


A. incense ash  
 C. the texture of incense mixed with the plaster

-Combined incense ash with the plaster  
 -pour water 1:2 of mixed stir around 2-3 minutes  
 -Pour all the ingredient into a mold and let it dried.

water proof, densely, scent

### Experimentation 03



BioBrick - 1st layer : eggshell+Sodium Alginate +Gelatin  
 2nd layer : eggshell+ concrete  
 3rd layer : coal + concrete



coal is one of the most effective odor absorbing materials  
 -pollution, dust



increases the soil's ability to hold onto plant nutrients and beneficial soil microbes by slowing or reducing the leaching of nutrients by rain or watering.



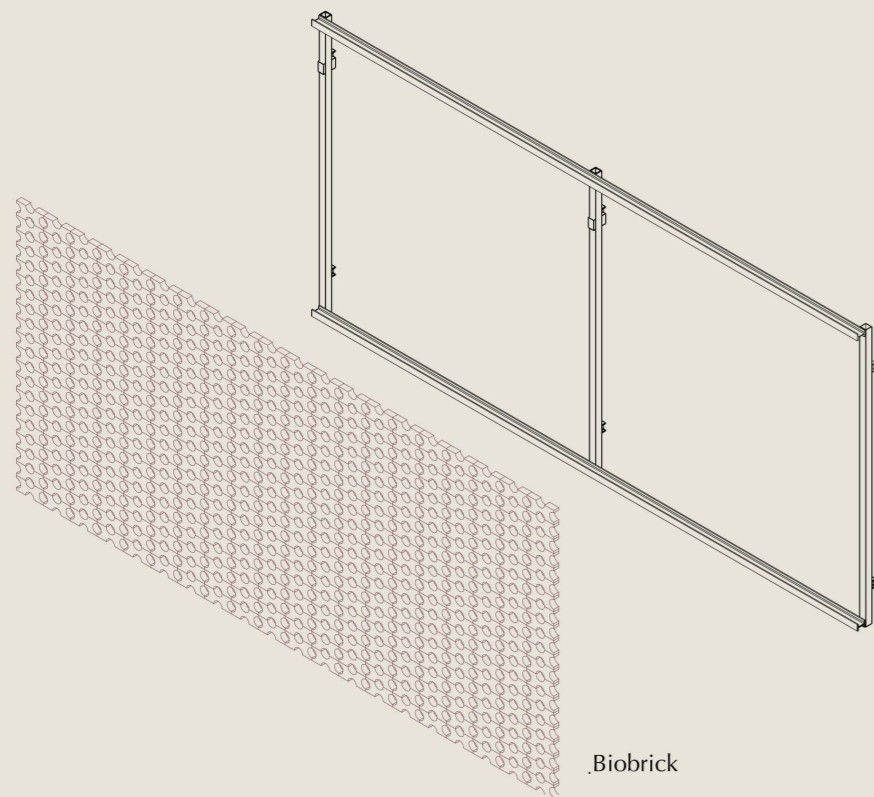
the membrane that lines an eggshell can absorb almost seven times its own weight of the greenhouse gas carbon dioxide from the atmosphere.

Design Scale

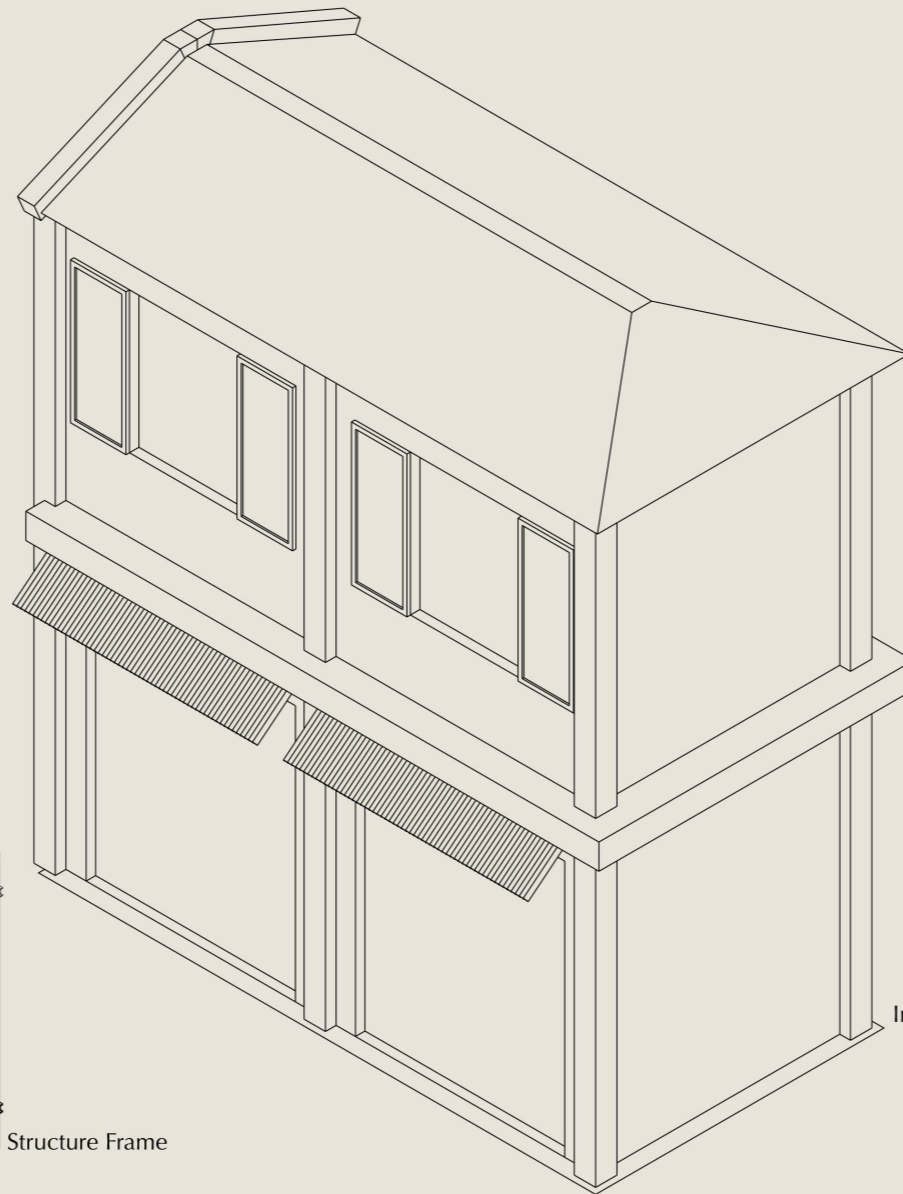
Animal/insect-  
 providing an elegant nesting place

Plant-  
 a plant's growth would be aided by the nutrients provided by coal ash

Human-  
 Fresh, clean air was circulated into the structure using a system of bricks that acted as an air filter.

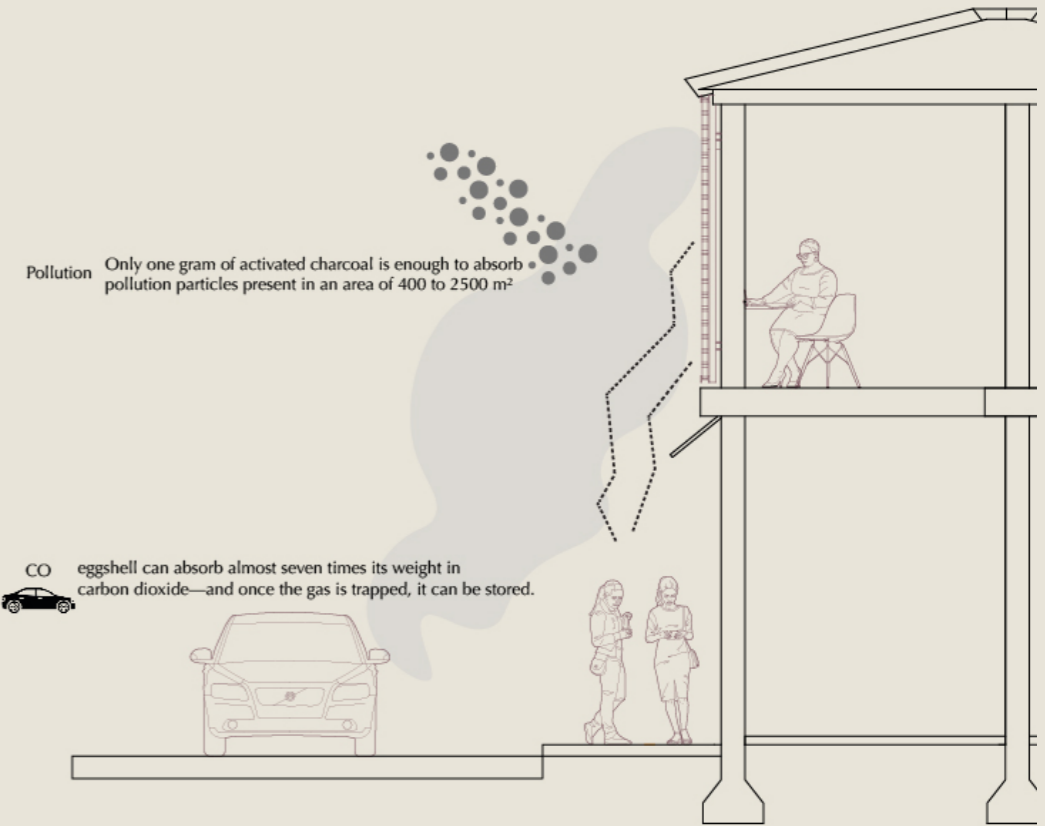


Biobrick



Structure Frame

Infrastructure



Pollution Only one gram of activated charcoal is enough to absorb pollution particles present in an area of 400 to 2500 m<sup>2</sup>

CO<sub>2</sub> eggshell can absorb almost seven times its weight in carbon dioxide—and once the gas is trapped, it can be stored.

According to the data in the past few year in agriculture industry egg-shell waste increase number amount over 9 million metric ton of eggshells. Resource came out that eggshells waste come from the egg industries process, food industry and household use.

The eggshell itself doesn't seem to be waste, The shells are 95% calcium carbonate, a compound that, when heated, becomes calcium oxide. Eggshell can absorb almost seven times its own weight of acidic gases like CO<sub>2</sub> or greenhouse effect. Not only purify the air but also in the water that it could remove a heavy metal in wastewater and It also good with a land of soil.

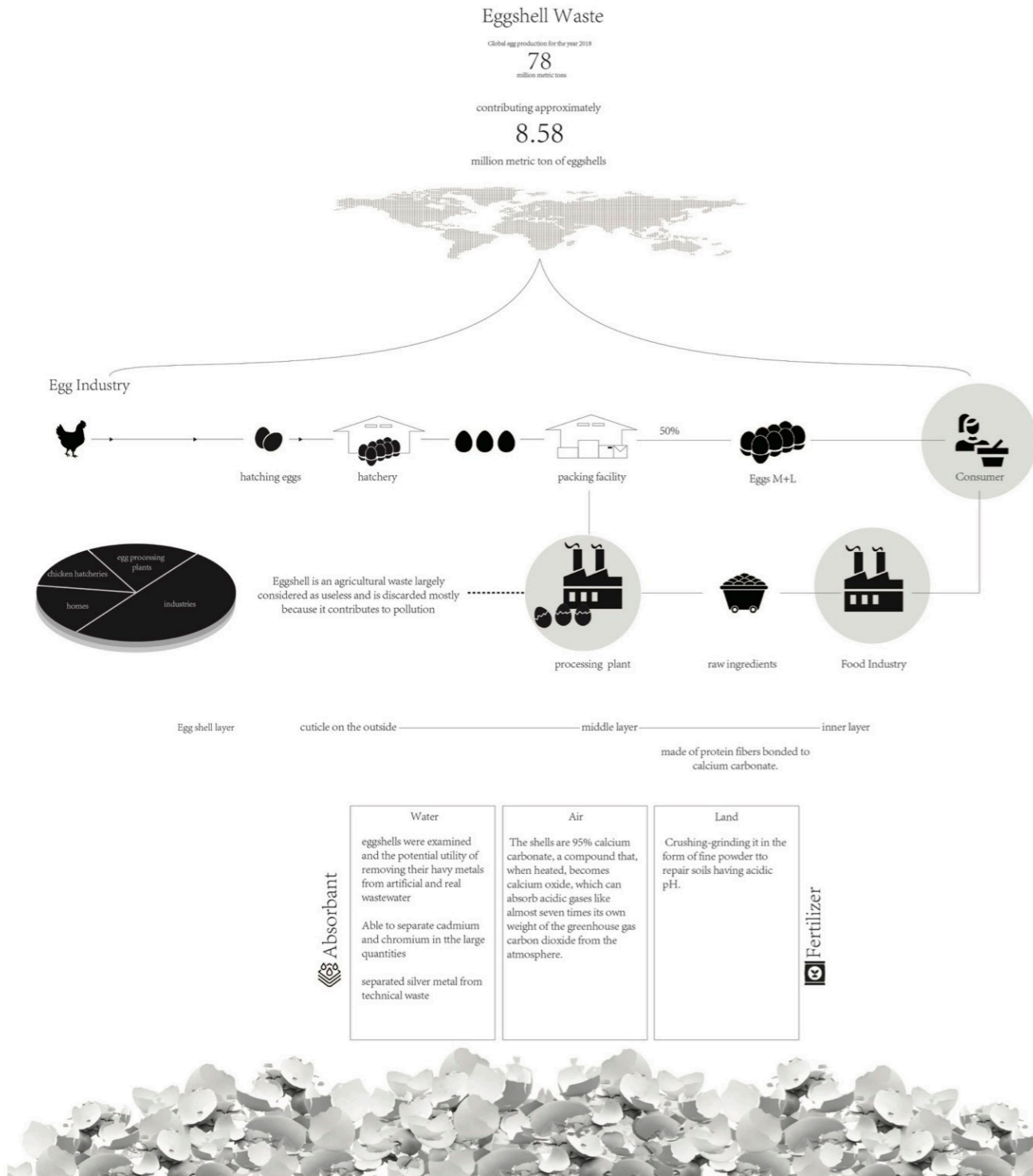
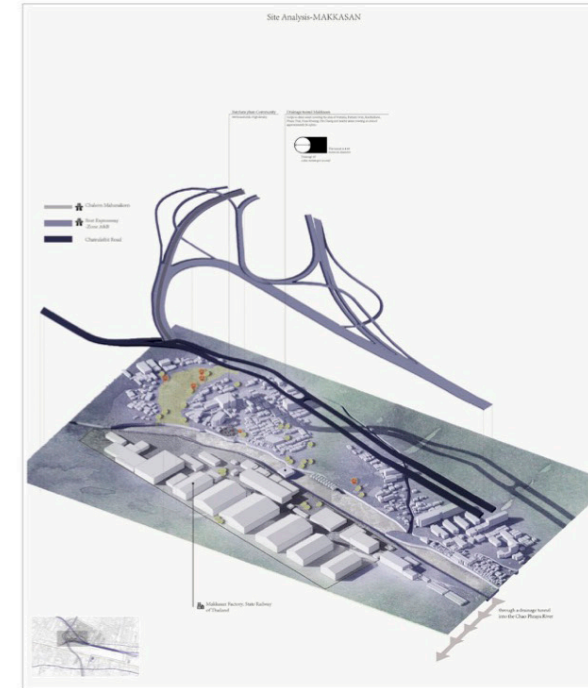
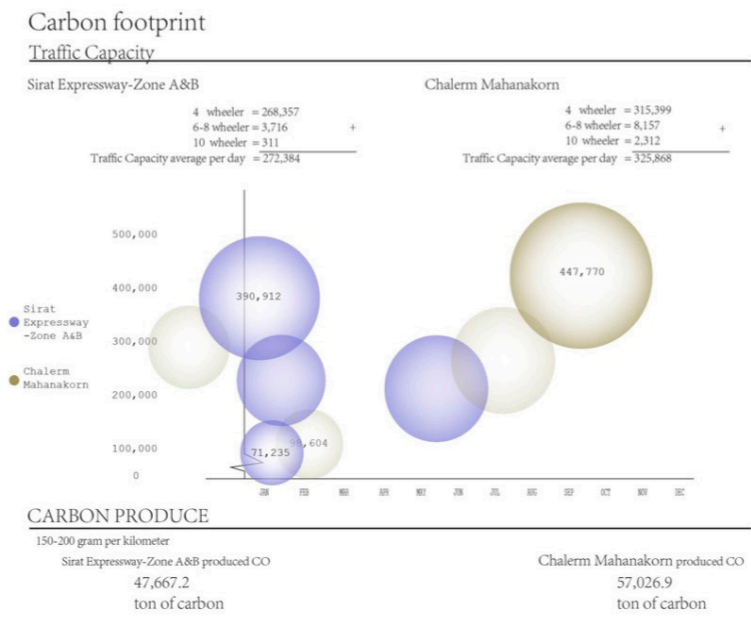


Diagram-Egg Waste Production and Waste Cycle

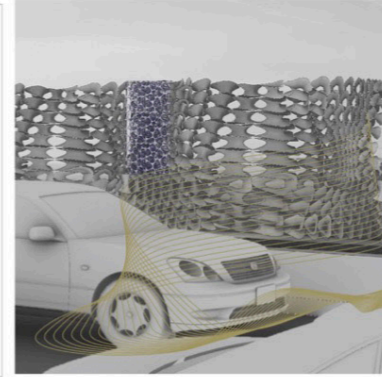
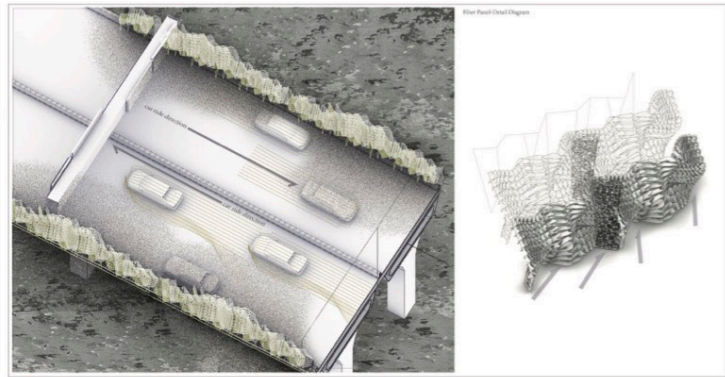
Diagram-Carbon Footprint ( traffic-emission). Mapping- Makkasan Transportation Route.



Site Analysis-Makkasan Highway

Bueng Makkasan is the one of district area that people have been use in everyday. Many transportation route pass through over the area two majority highway that people use the most. Underneath the highway also the place for the drainage tunnel which cover area of approximately 26 square kilometers. The site itself shows the diversity of people use in different terms the carbon produce from the transportation and the waste water from the community area.





Isometric View- The wind direction with facade setting  
Isometric-Filter facade Highway  
Filter Towers-Visualize Environment

Filter Tower-Detail Diagram

Air Filter

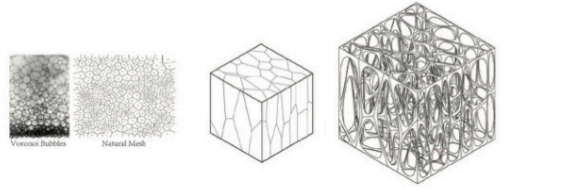


Diagram-The Structure filter panel development

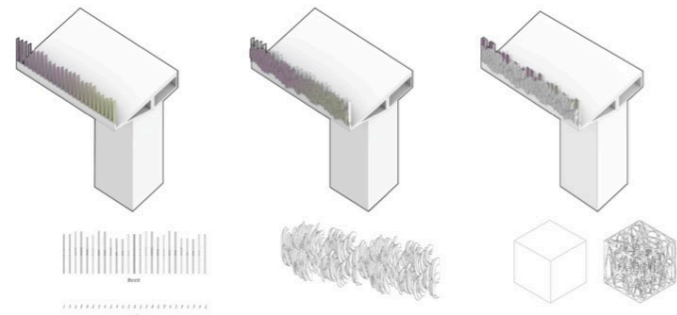
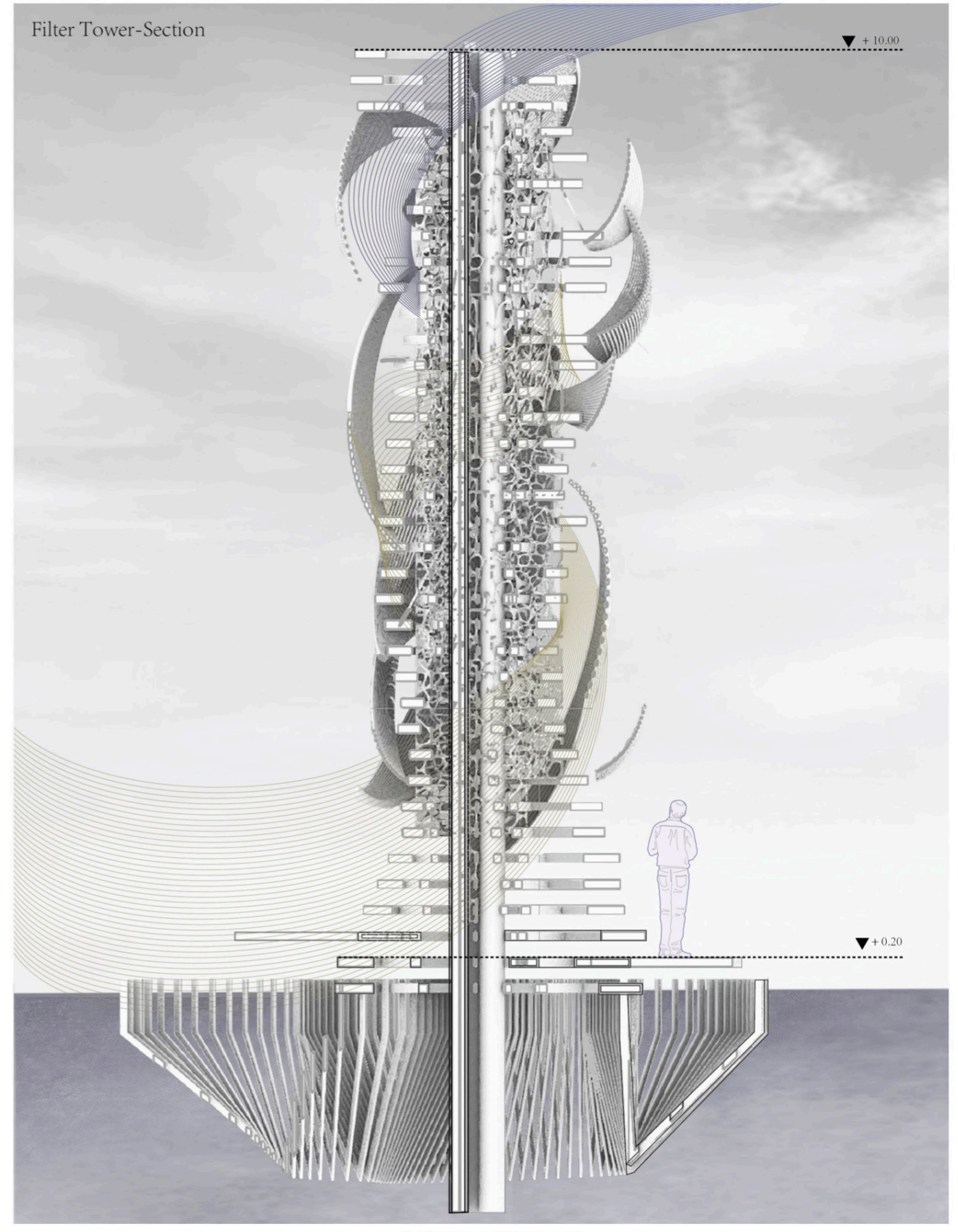
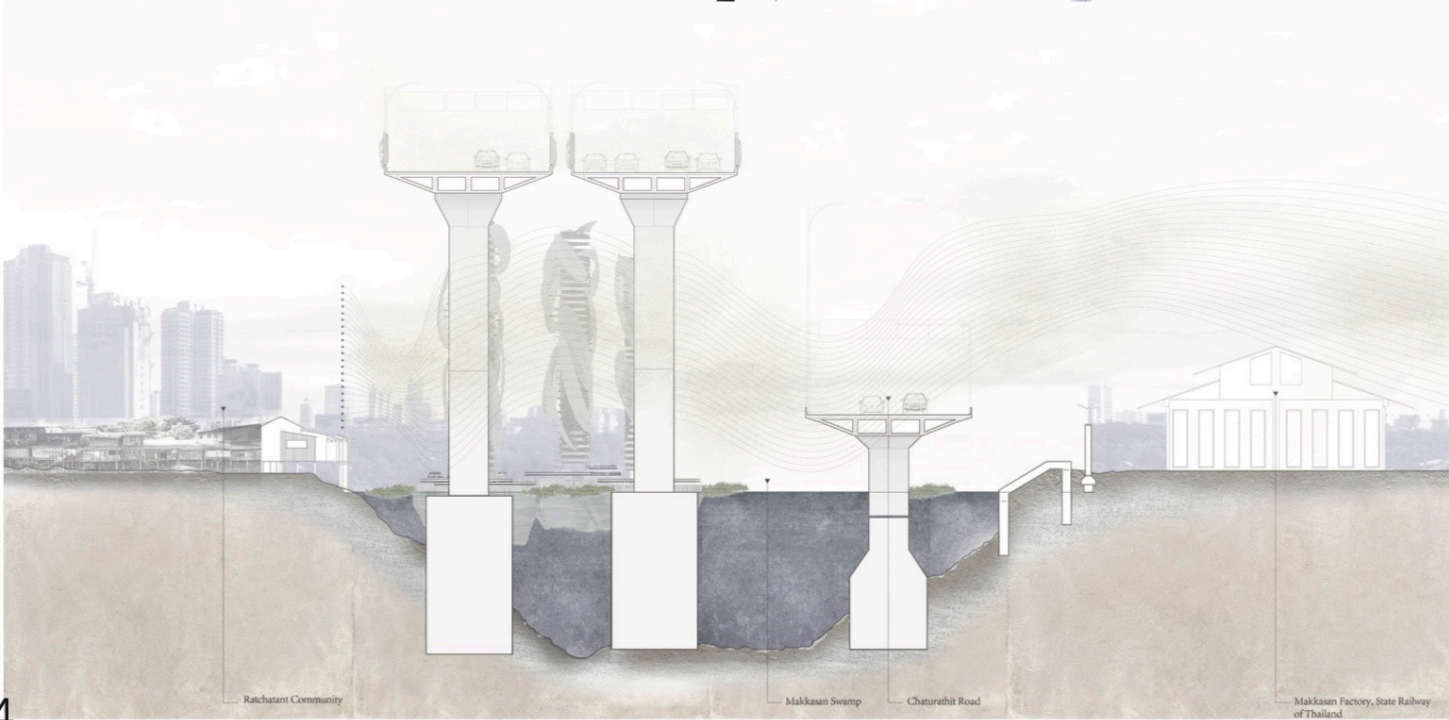
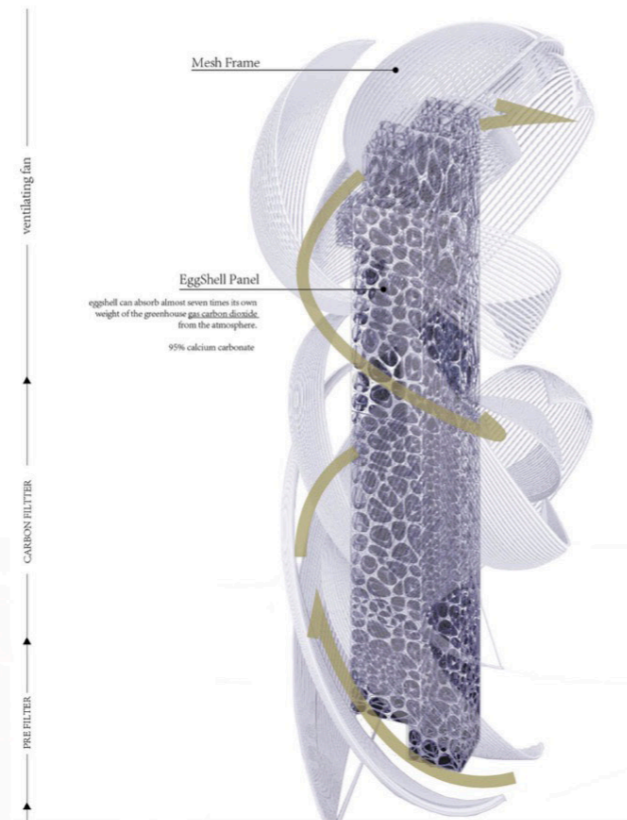


Diagram- Layer of device explanation detail  
Section Cut- Relation of wind Direction and community.



This is the filter tower that would be place on the surface of the buengMakkasan and cover along underneath the expressway. The feature of itself refer to the air filter machine by have a core vertical pipe in the middle, eggshell mesh and then curve facade that adapt follow the wind direction. Below the the tower is the batten of egg-shell for water treatment. The design choose to arrange the high as a wave prevent blocking water flow to goes to drainage tunnel.

# The Counter Body Reactions to Capitalism

Year: 2021Spring Instructor: Benlert  
 Project:Urban Planning, Experimental Material  
 Location:Makkasan District, Bangkok, Thailand

## How Bangkok preparing to socialization of capitalism

### Reseach Progress

How can we live forever? It seems impossible to happen in real life: The project, Museum of living bodies by Arakawa Gins. This project talked about how this museum is going to be a place for people to live longer.

By using public transportation to improve the body to work more efficiency ??????????????

**BANGKOK NEWS**

**THE WARNING ISSUE**

The METRO stations are the "stage" for the overworked capitalist body, it is considered the centre of people from different backgrounds and status. In fact, the metro is the rigid dichotomy between private and public space. The train station is not merely a transit; instead, it affects urban dwellers lifestyle both physically and psychologically. This means that every single element in life is interconnected and yields profound effects on one another.

For example, Oshiya is the occupation which is responsible for pushing passengers inside the train as much as possible during the rush hour. Passengers on the train are forced to stand still as if their bodies are paralyzed because they were crammed in the train for almost double the number of the maximum capacity allowed. while the sights of people who take a nap in various public places (Inemuri), whether on the side of the road or even on the train floor, are becoming mundane, because of lack of sleep and work overtime. These events may be the consequences of fatigue or partying after work. Most of all the worker Spent their life like this as a daily routine. Although it seems normal, it is undeniable that these actions take a toll on other passengers. Now on these issues are already happening in Tokyo and This could be a case study to the Bangkok metro, that becoming the main centre of transportation.

How can we solve these problems? If these events occur in our own city, will we look the other way or lend a helping hand? This is not just a normal sign, but rather something that we should prepare for. We can already see that public space is not merely functioned as the medium of travelling, but also yields tremendous effects on our physical attributes and our life-style.

Manefesto- Warning Letter -  
 How Thai People preparing to the  
 bodyreaction-capitalism

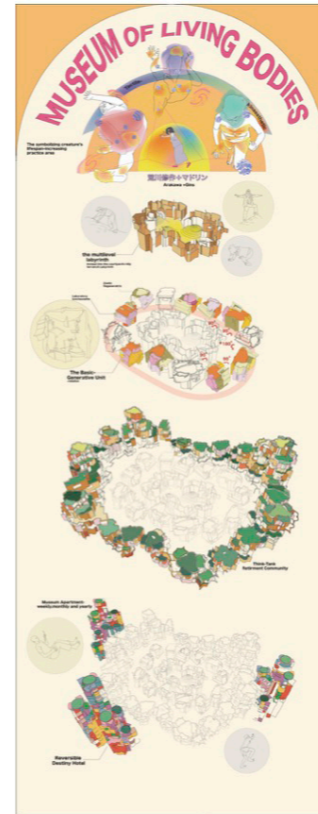


Diagram-The Museum of living Bodies,  
 Arakawa+Gins

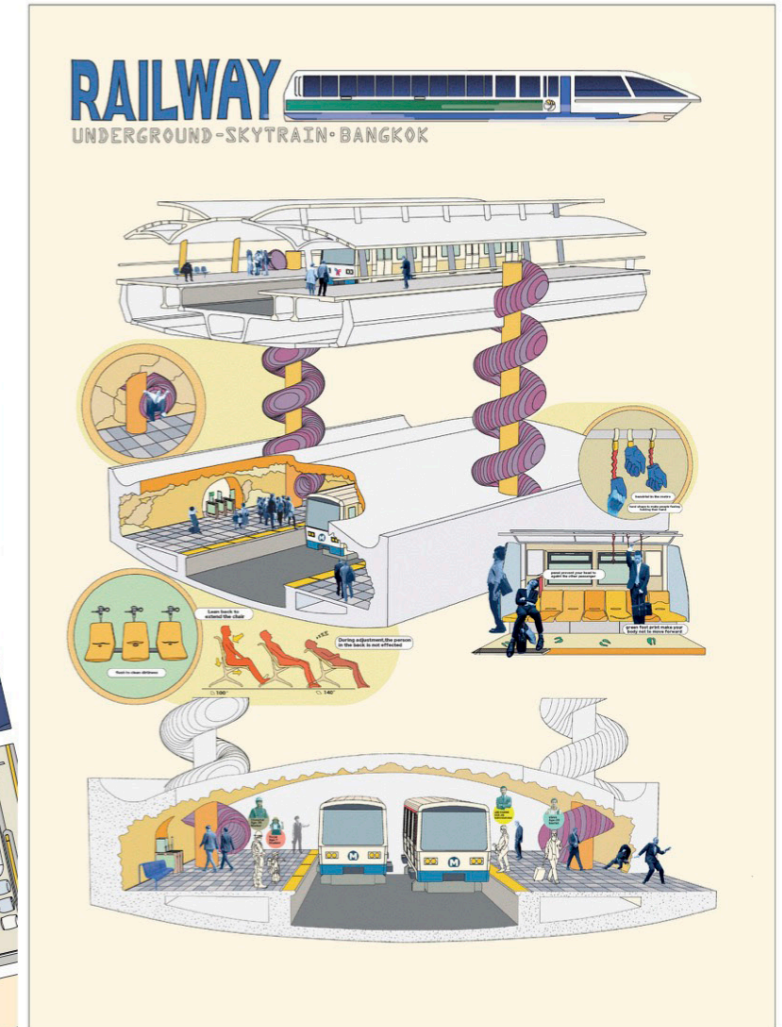
**BODY REACTION-CAPITALISM**

OSHIYA

Inemuri

Clastrophobic

The Poster Comic-How body reaction in  
 public transportation.



Drawing-The New Typology of  
 Capitalism Public Transportation.

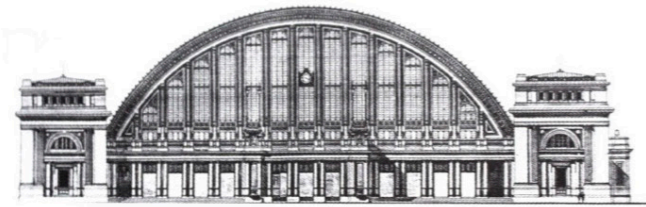
### How Architecture influenced Human Behavior

Refer to Asian Work live balance, In Japan, Many Japanese people encountered with Over-load of working and lack of sleeping. Moreover, It would cause the problem directly to mostly young adult to get into the stage of passing out.

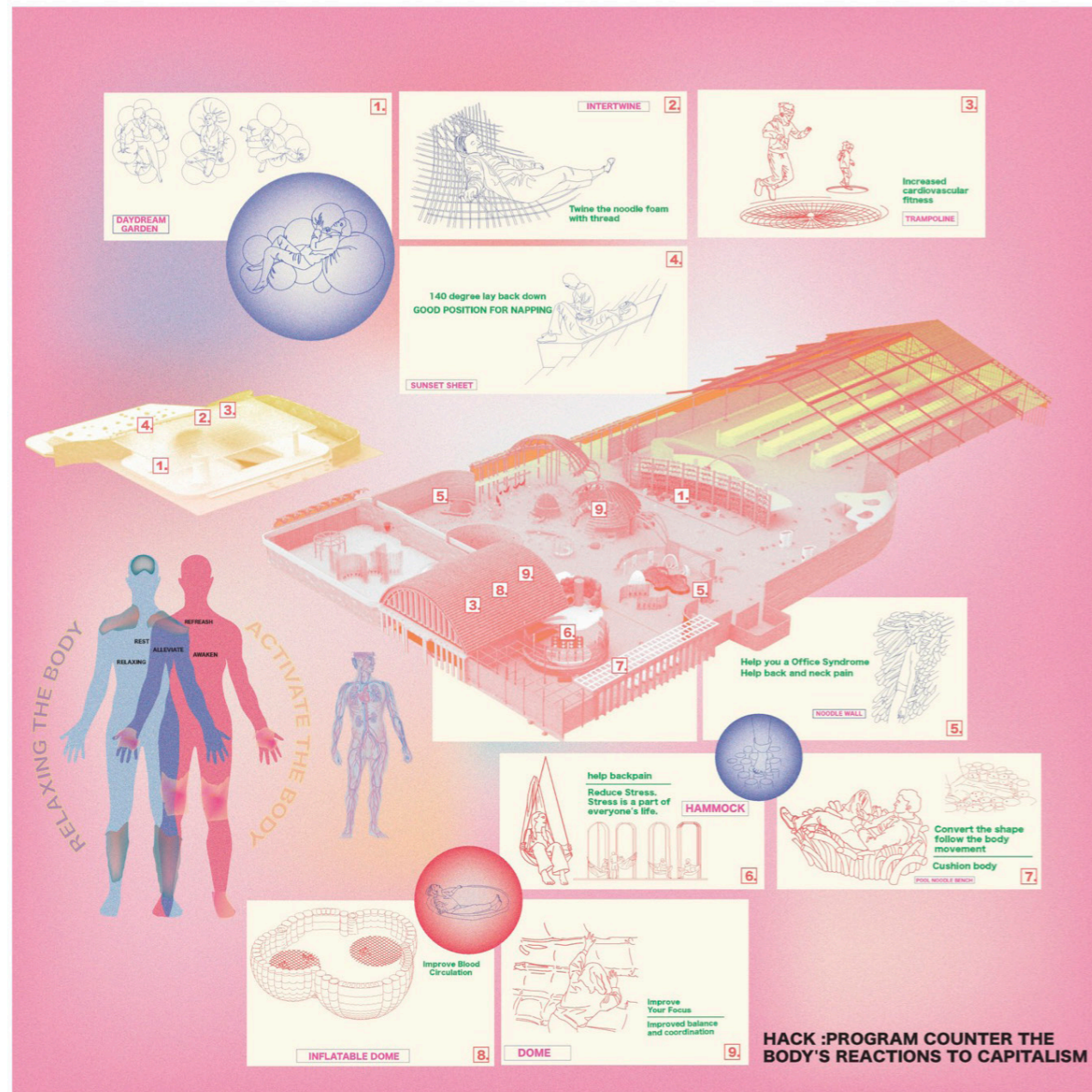
I illustrated the context of of Body reaction -capitalism by simulated as a comic poster in japanese metro.

# "Hua Lum Pong"

The Main Transportation Hub located in Bangkok over a 100 years Normally using as a central train station to most of the part in Thailand. By the station itself have train station, metro, boat station and Taxi parking.



Elevation-The Main Entrance of train station.  
Diagram (ISOMETRIC VIEW)-transportation



Drawing-Hack Program Counter the Body's reactions to capitalism



Diagram-How each stage of Psychology problem effected from architecture space



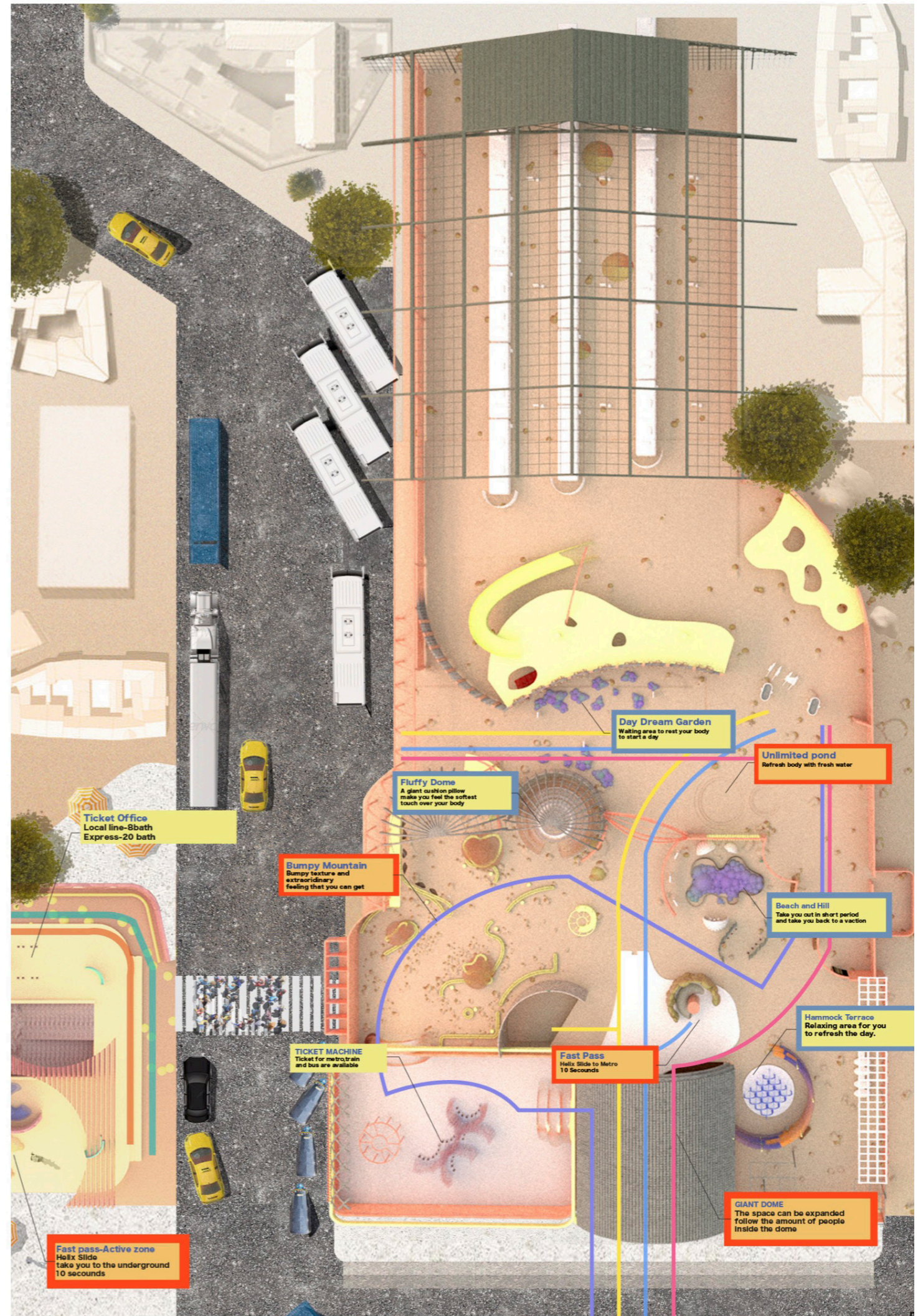
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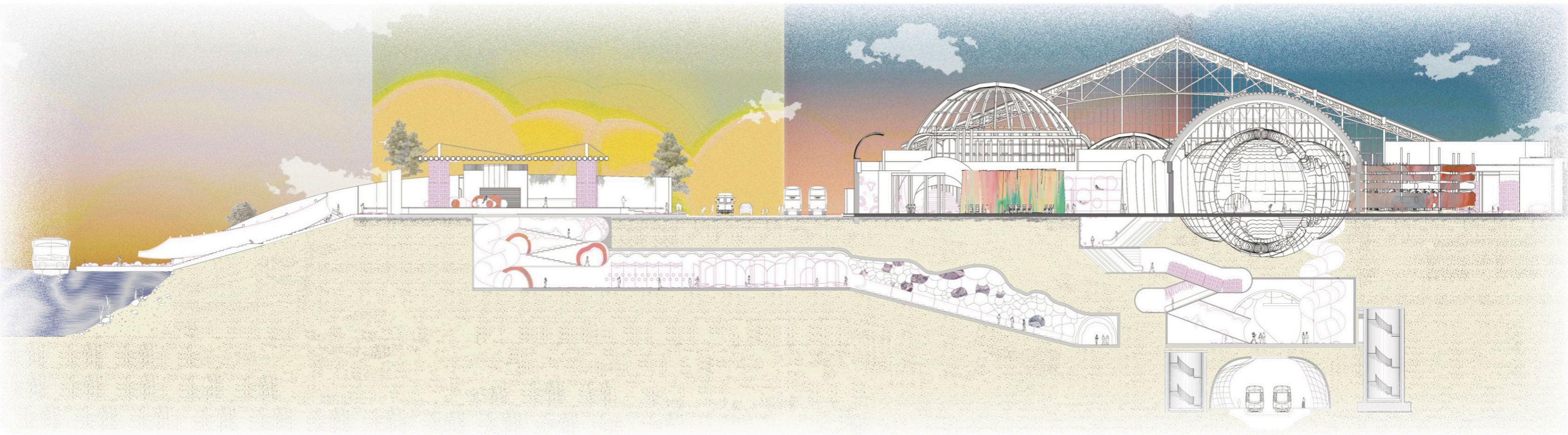
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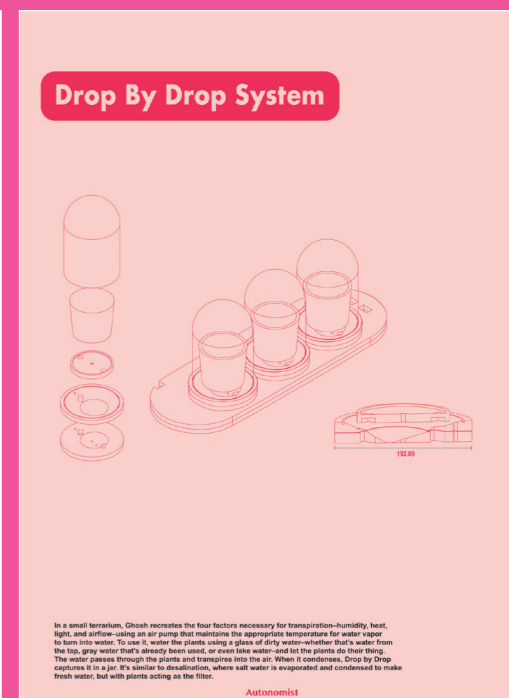
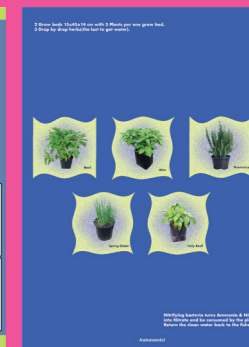
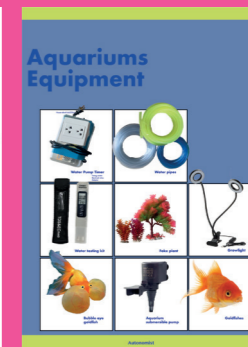
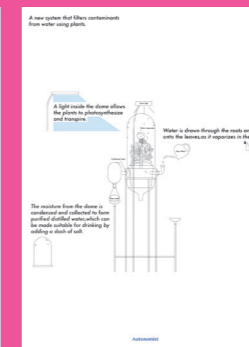
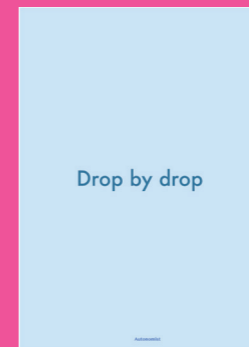
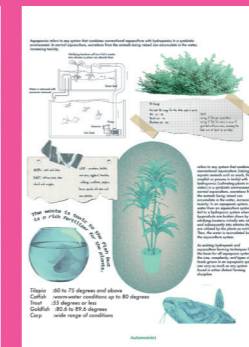
Plan Drawing-Diversity of route for people who want to increase of productive and efficiency of working.

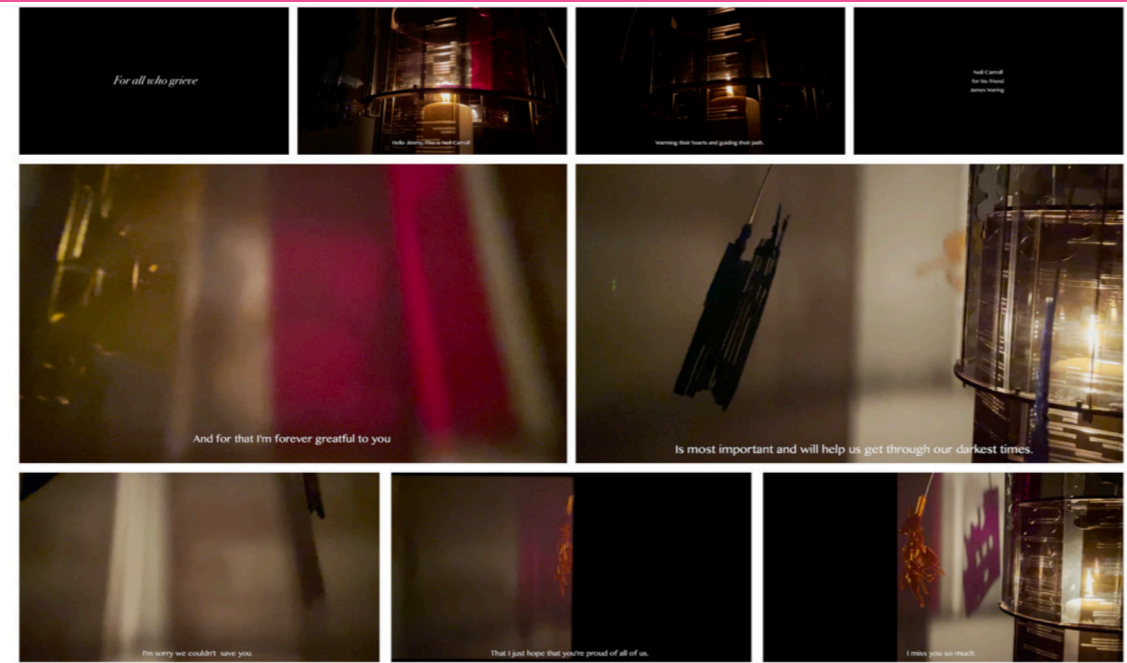
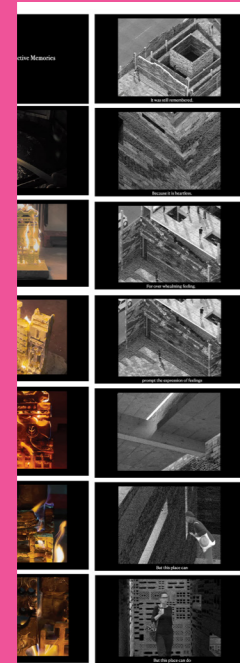
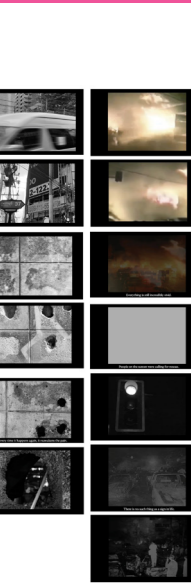


Section-*The connection between Main Transportation Hub and pier.*

# Autonomist The Archive of Ecologizing Practices

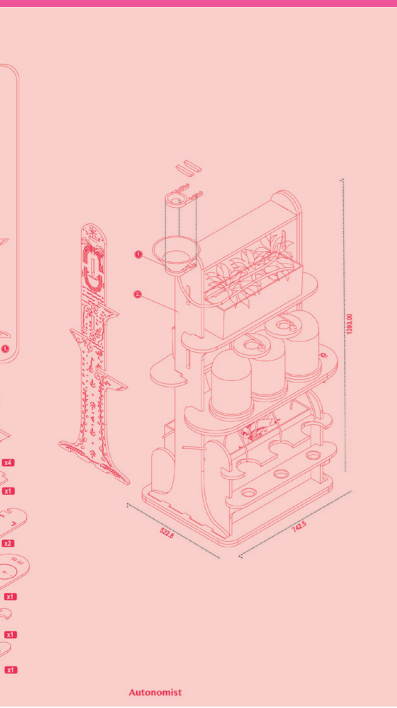
(2020) A group project that had a focused on the term 'Autonomist' by creating a water filter machine combines with an aquaponic system that can filter grey water from our daily wash in a household to be reusable and drinkable at the end of the process.





## Video-Narrative

(2021) Using the Mobile Sculpture with different material translucent to create reflection on the wall and caption the story about 9/11



## Coral Lamp

(2018) The Experimental on clay .  
By using light and shadow reflected over the clay texture array over module with the different size.



## Craft And Experimentation

