YUNYAO JIANG



ARCHITECTURE PORTFOLIO

Yunyao Jiang

-Designer-

{CONTACT}

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Phone:

330-780-5047

{PROFICIENCY}

Post Production

Photoshop
Illustrator
InDesign
Lightroom
After Effect

Modeling

Rhino
Grasshopper
Maya
Revit
Autocad
Sketchup
Lumion
Unity
Blender
Sculptris
Meshroom

{EDUCATION}

Bachelor of Science

Kent State University
United States
2012- 2017

Master of Architecture

Kent State University
United States
2018- 2019

{EMPLOYMENT HISTORY}

Architectural Intern — **Richard L Bowen & Associates Inc**

December 2017- August 2018

Cooperate with lead architect developed design concepts, digital models and renderings for shopping center, police station, commercial offices etc.

Architectural Intern — **CCCC First Highway Consultants Co.,Ltd**

May 2016 - August 2016

Developed design concepts, digital models and renderings for highway rest area in Hainan China,

{ACCOMPLISHMENT}

Faculty Award - Master of Architecture

AIA Cleveland Student Work Category Finalist

Integrated Design Studio Graduation Project citation award

Research Symposium Bamboo-Steel Composite Structures" second place

The National Youth Painting Competition gold award

Xi'an Youth Olympic logo design third award

{COMPETITIONS}

2019 Micro housing competition	2019
2019 24 hours competition	2019
2019 Fashion hackathon	2018
Wilsonart chair competition	2018
Cysoa beach cinema competition	2018
Uia-hyp cup 2018 international student competition	2018
The 2018 archoutloud dwell competition	2018
The 2017 archoutloud nuclear competition	2017
The 2017 young architects competition (y.a.c)	2017

Portfolio Available Upon Request

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ACADEMIC

SELF- SUFFICIENT

URBAN BATHHOUSE

UNTITLED

MORPHOLOGY

BIKE HOTEL

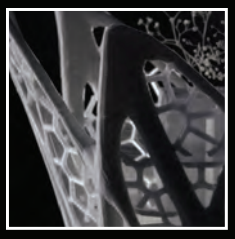
COMPETITION

OMNIPOTENT

POST CASTE

IVY

FIELD OF VISION

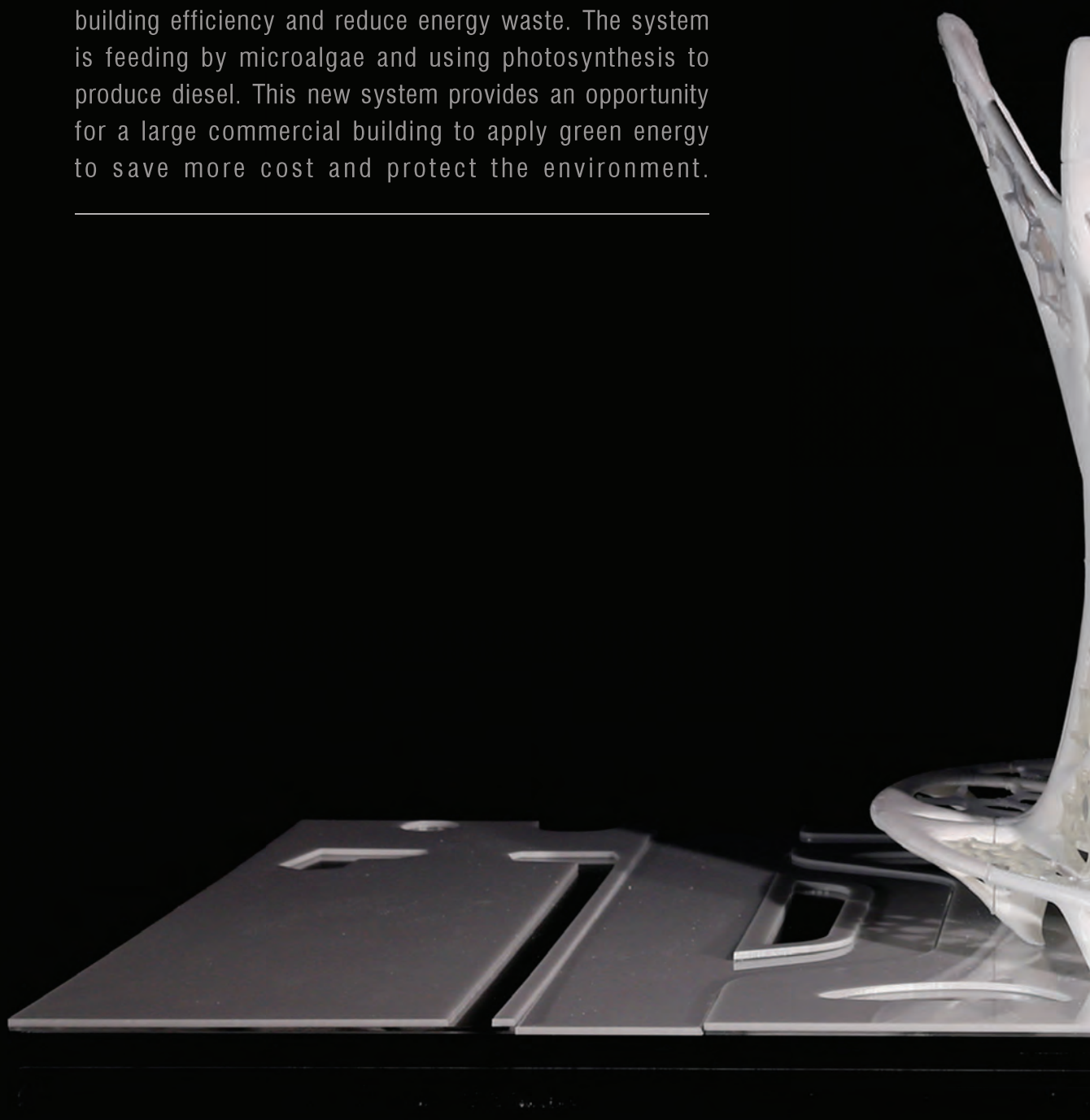


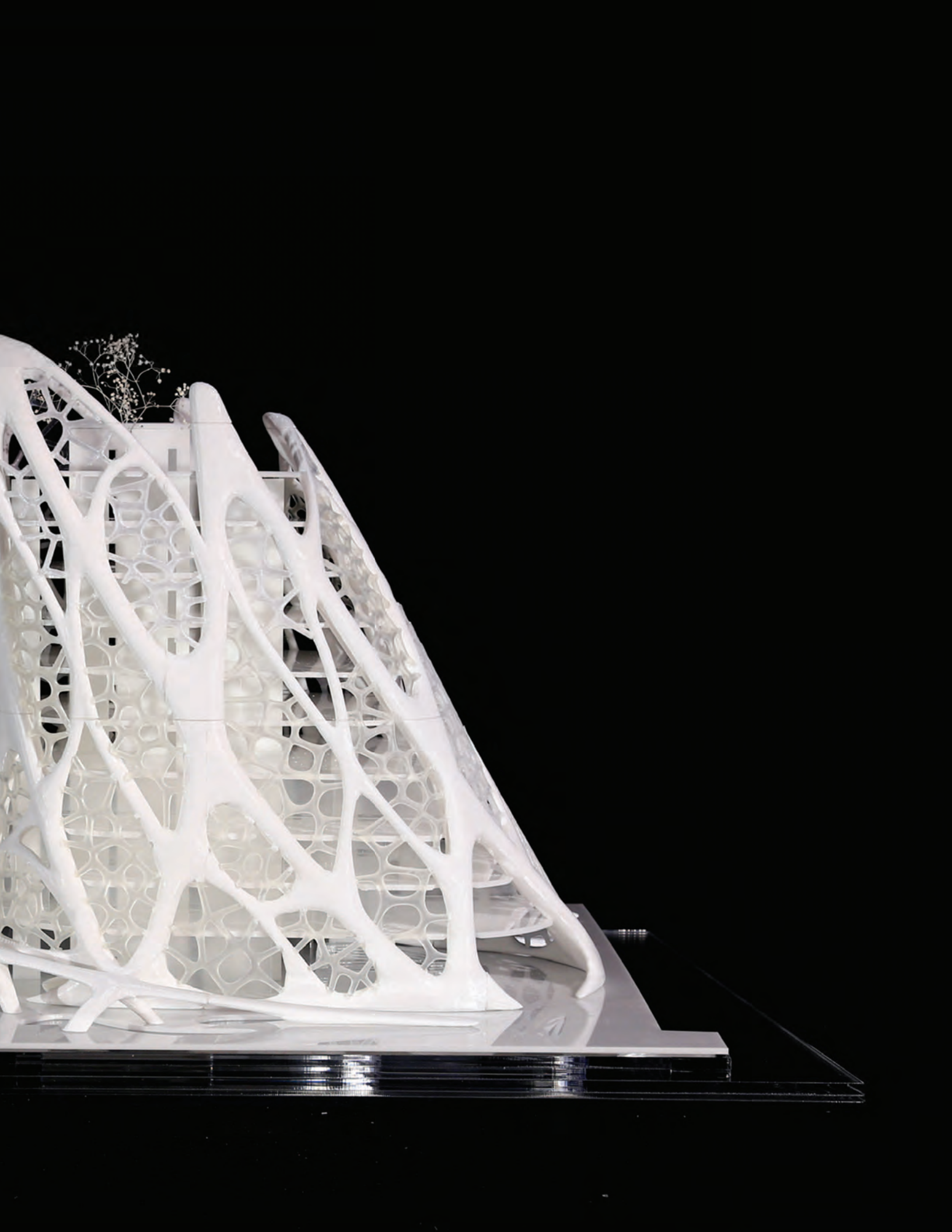
Self-sufficient

How can an architecture be of self-sufficient to itself by growing algae? How can an architecture be organism to self evolution?

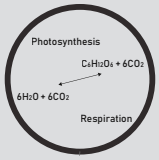
TYPE: Academic Work
LOCATION: Chicago
TEAM: Yunyao Jiang & Kun Wu
PROFESSOR: Peter Marks

The concept based on a system that use algae to improve building efficiency and reduce energy waste. The system is feeding by microalgae and using photosynthesis to produce diesel. This new system provides an opportunity for a large commercial building to apply green energy to save more cost and protect the environment.





CONCEPT DIAGRAM



DURING BIOREACTOR ALGAE ABSORB CO2 AND PRODUCES 02.



ALGAE CLEANS CHICAGO WATER TO SERVICES THE BUILDING.



ALGAE GENERATES BIO-MASS THAT COULD TRANSFORM TO BIO-FUEL, THEN GENERATE ELECTRICITY.



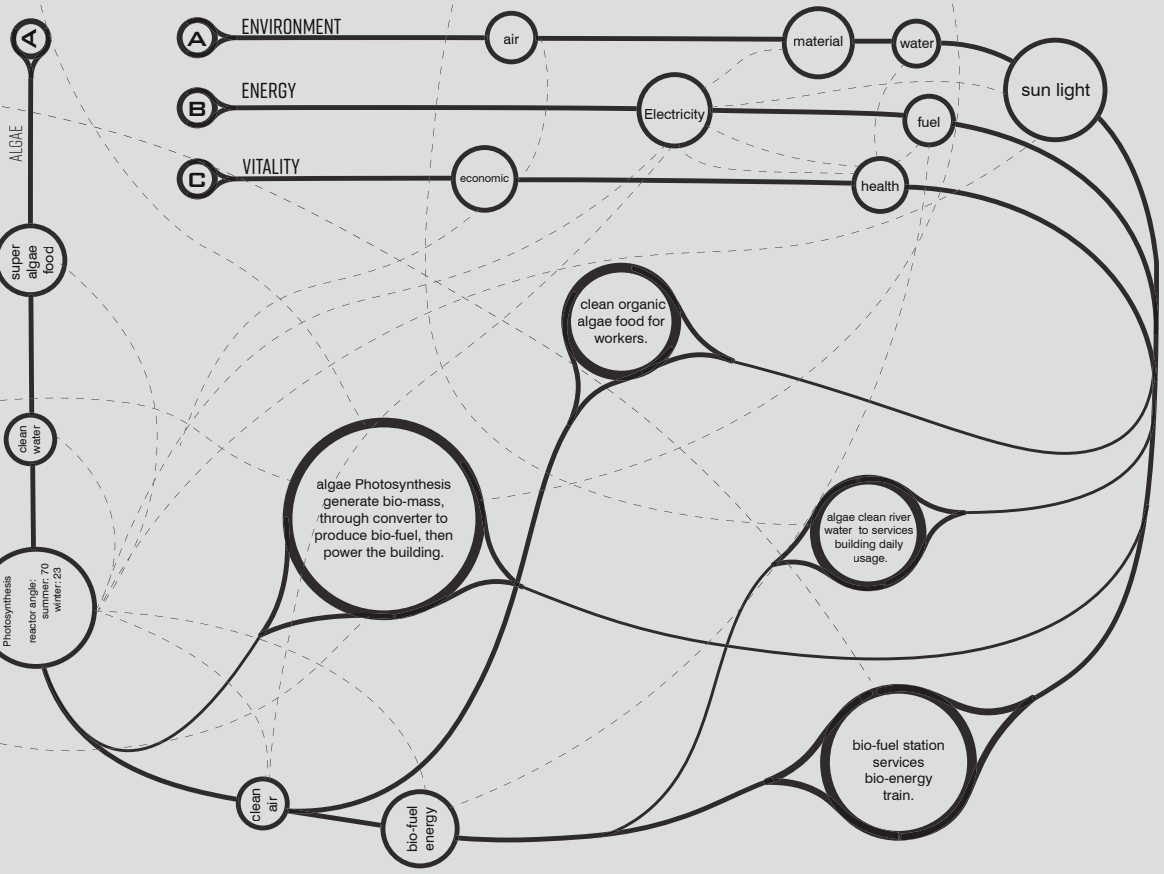
EXTRA BIO-FUEL SELLS TO GREEN FUEL CARS.

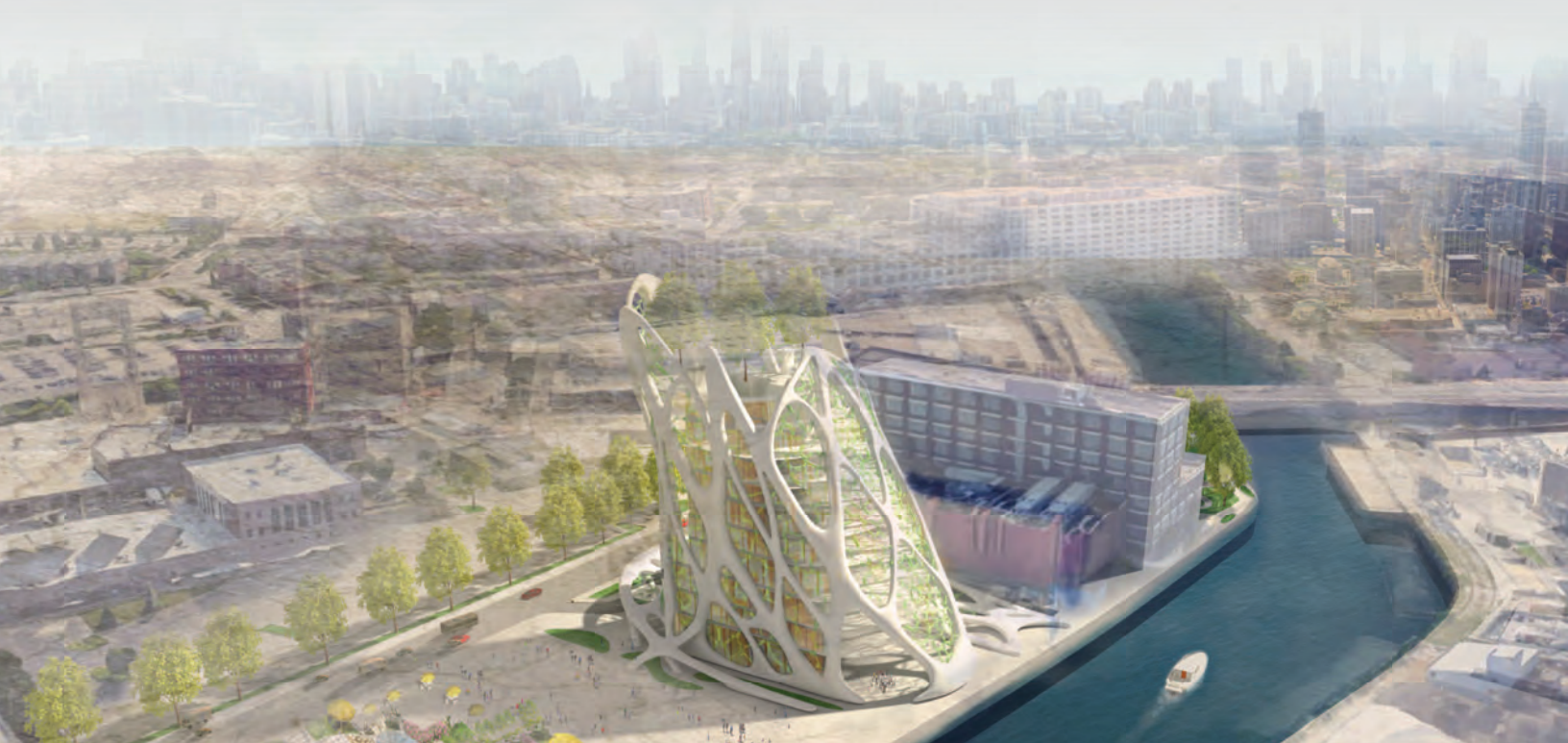


60 DEGREE ANGLE ON SOUTH BIO REACTOR.



VORONOI PATTERN HELPS NATRUAL LIGHT PASS THROUGH.





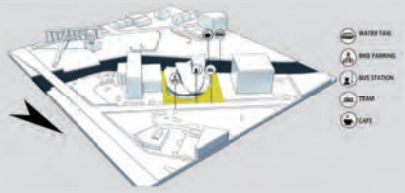
SITE ANALYSIS



PUBLIC TRANSIT



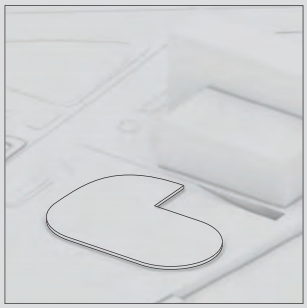
GREENSPACE



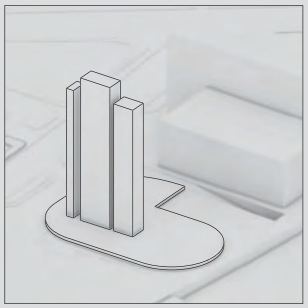
ACTIVITIES

The early study of site analysis helps the processing of design. The site analysis includes public transportation, green space and potential activities around this area.

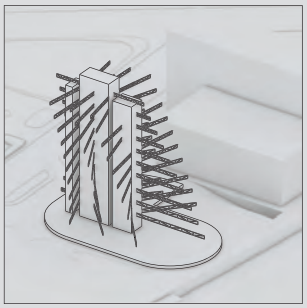
COMPONENT DIAGRAM



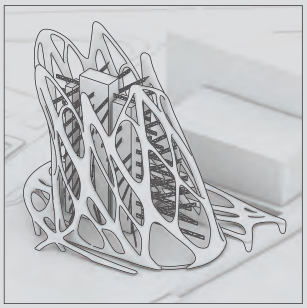
PROJECT BASE



CORE

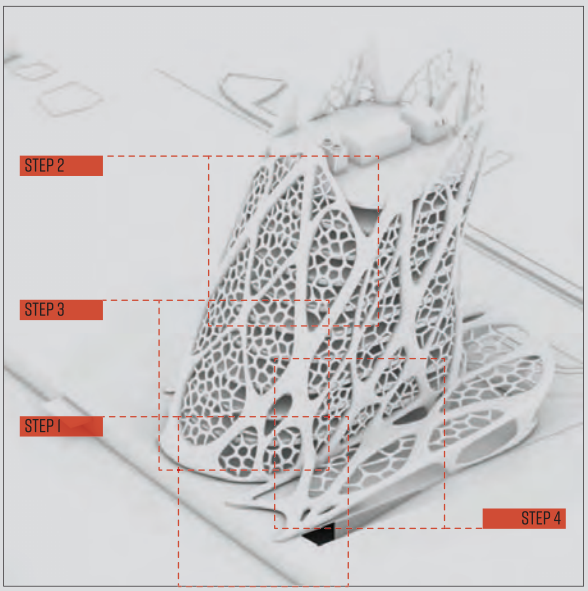


TRUSS STRUCTURE



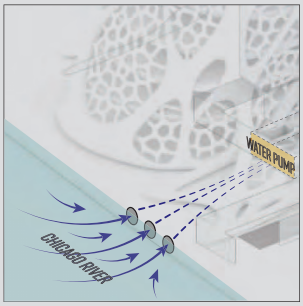
MEGA CONCRETE STRUCTURE

PROCESSING DIAGRAM

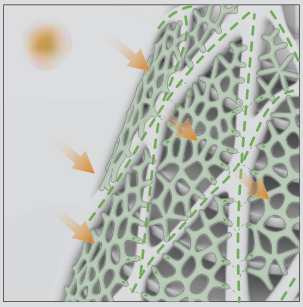


STEPS MARK

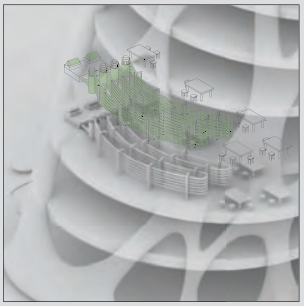
The processing of algae energy could be divided by four steps, first collect water from Chicago river powered by the water pump, then growing algae by flowing through glass pipe on the facade, the third step is producing algae by scientist then delivery to basement to storage and fillet to bio-fuel power generator that services building energy usage.



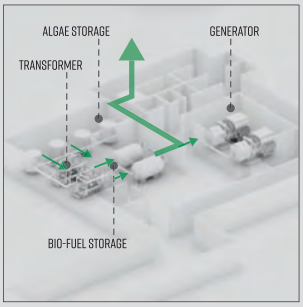
STEP 1 : COLLECT



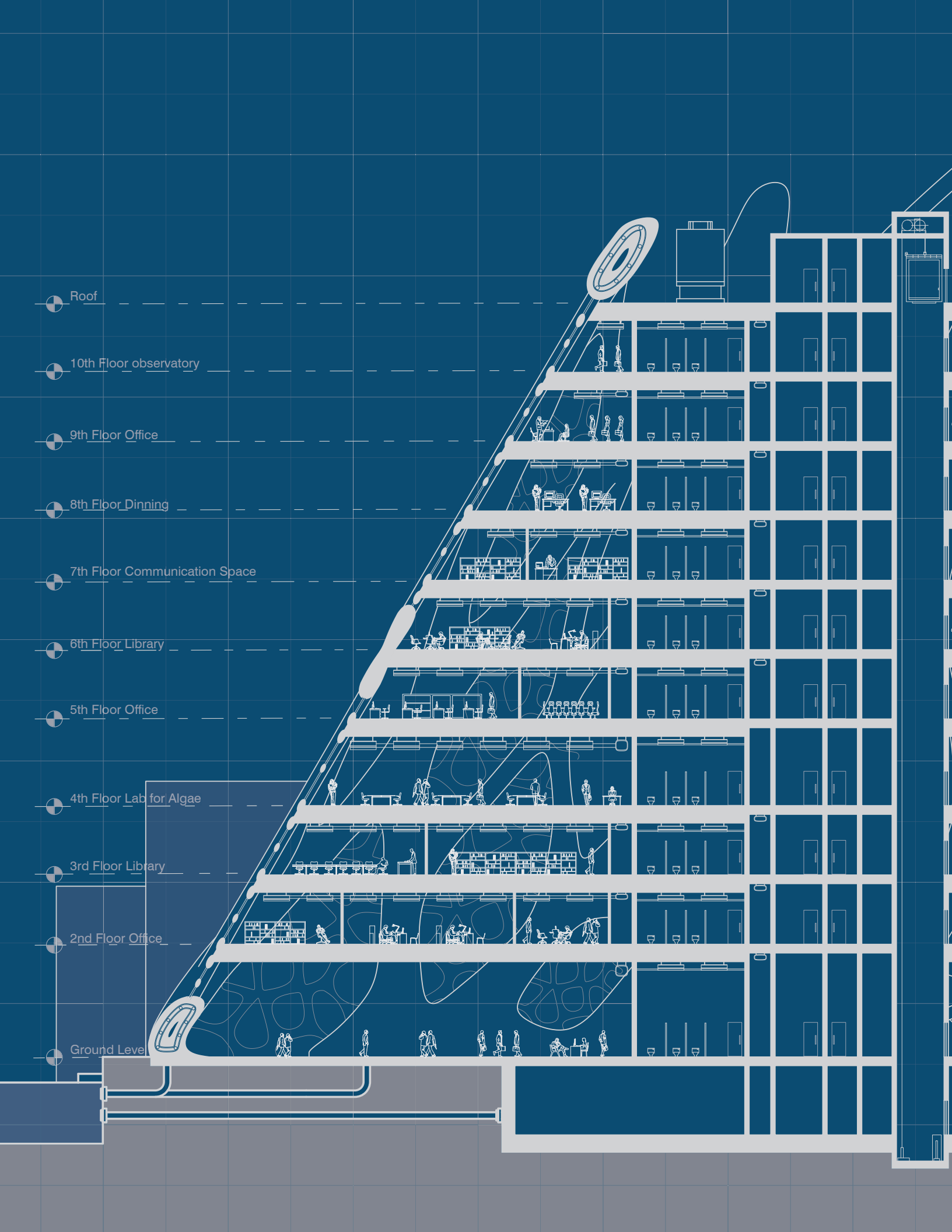
STEP 2 : GROW

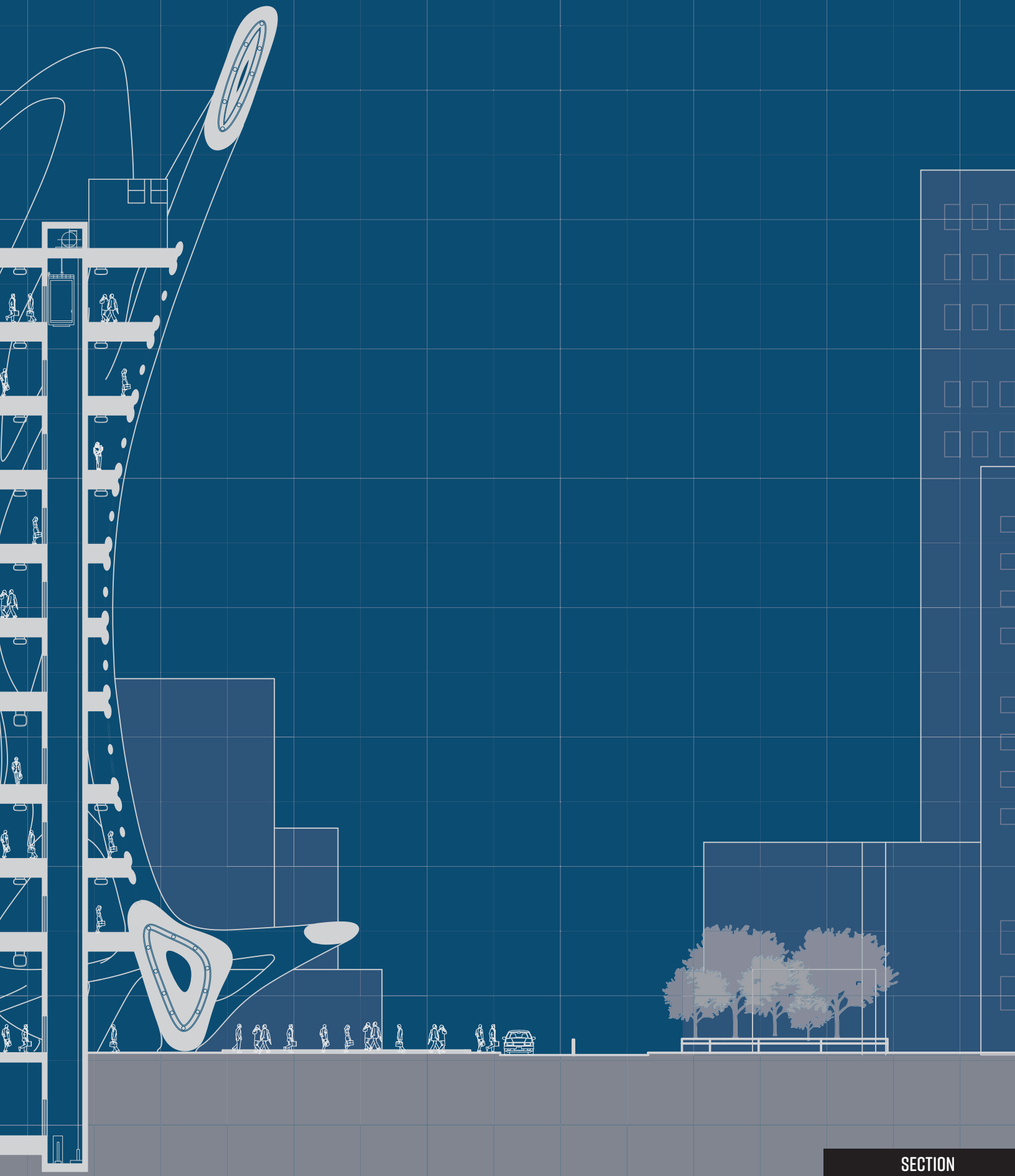


STEP 3 : PRODUCE



STEP 4 : SUPPLY


Roof
10th Floor observatory
9th Floor Office
8th Floor Dinning
7th Floor Communication Space
6th Floor Library
5th Floor Office
4th Floor Lab for Algae
3rd Floor Library
2nd Floor Office
Ground Level

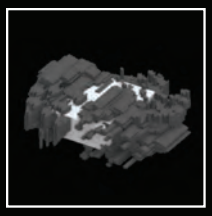


SECTION





RENDERING



Urban Bathhouse

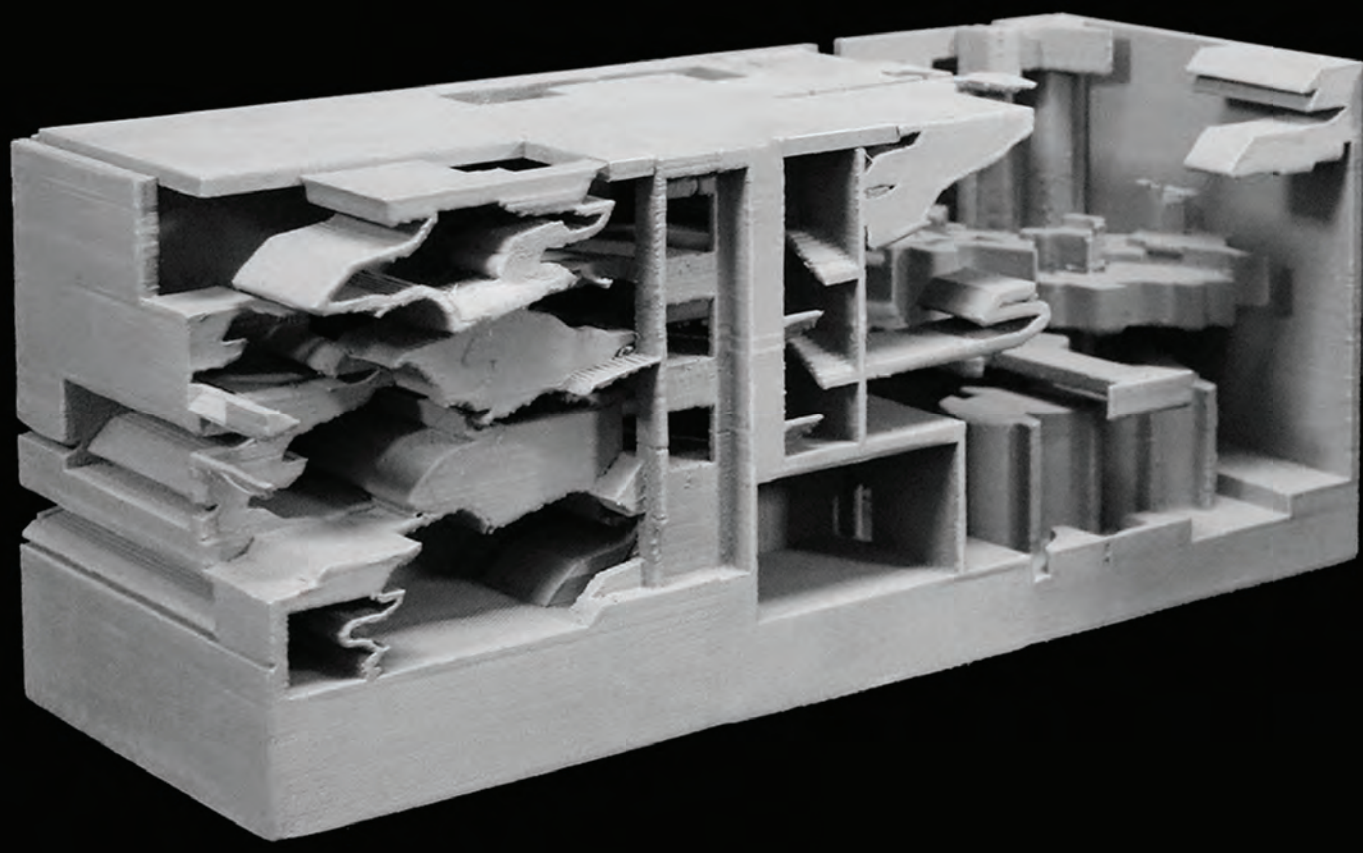
How can a bathhouse encourage people escape from urban chaos to a hidden world?

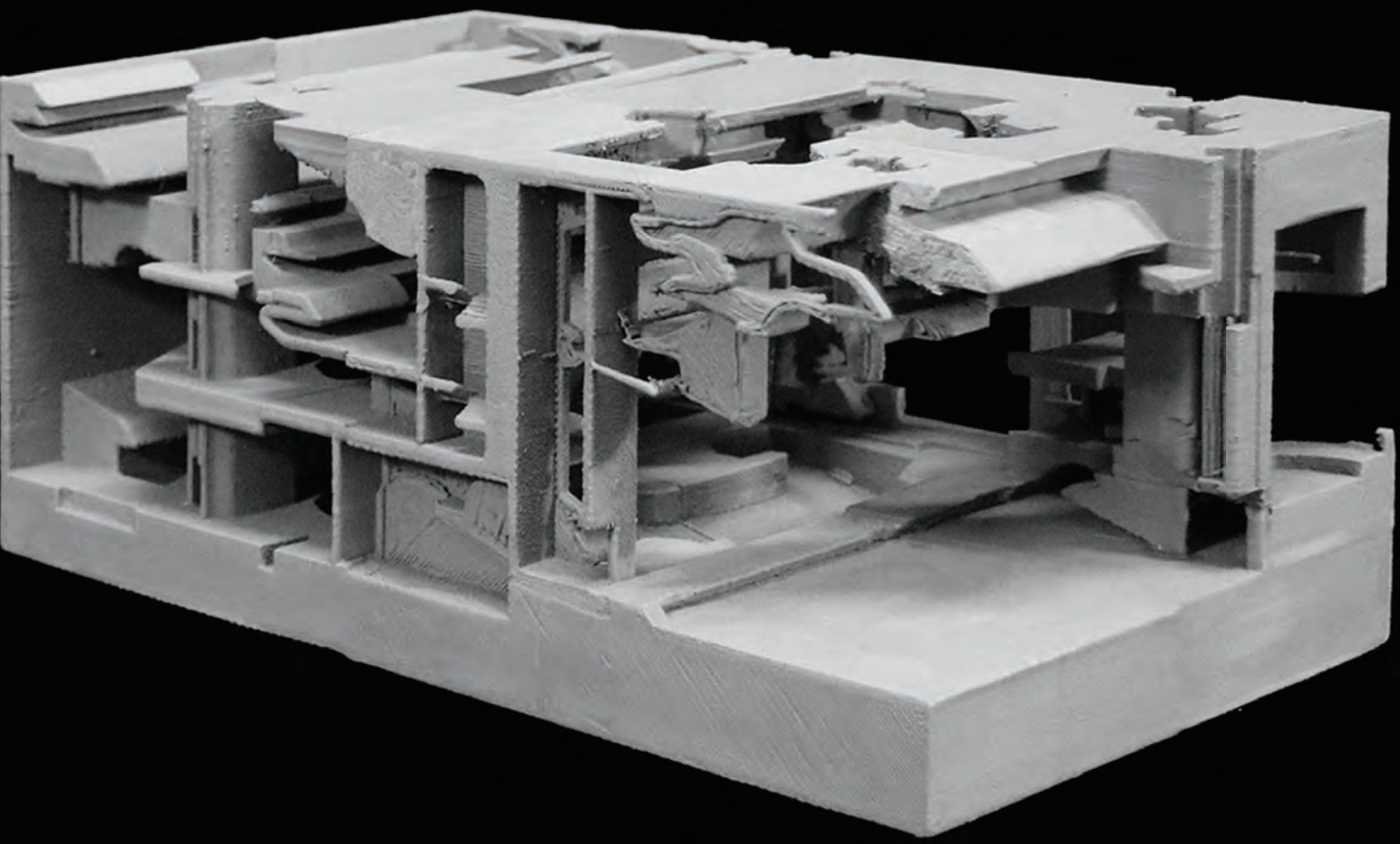
TYPE: Academic Work

LOCATION: Los Angeles

PROFESSOR: Margaret Griffin

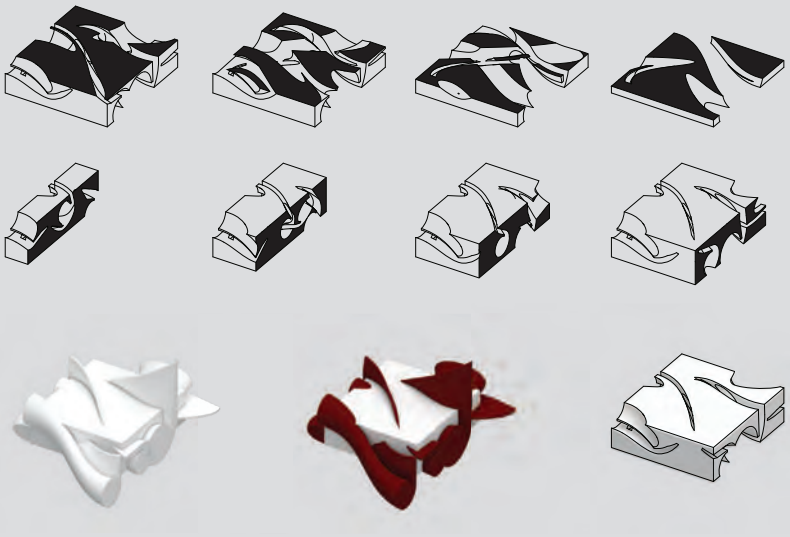
The studio expanded upon the fundamental problems of architectural geometry and representation developed for an Urban Bathhouse in Los Angeles. The project creates the spacial sequence and quality from a simple profile and the shifting of color, both helping to identify depth and qualities within the space. This precise and complex form combined with a range of changing materiality created a unique hidden world to serve as an urban escape.

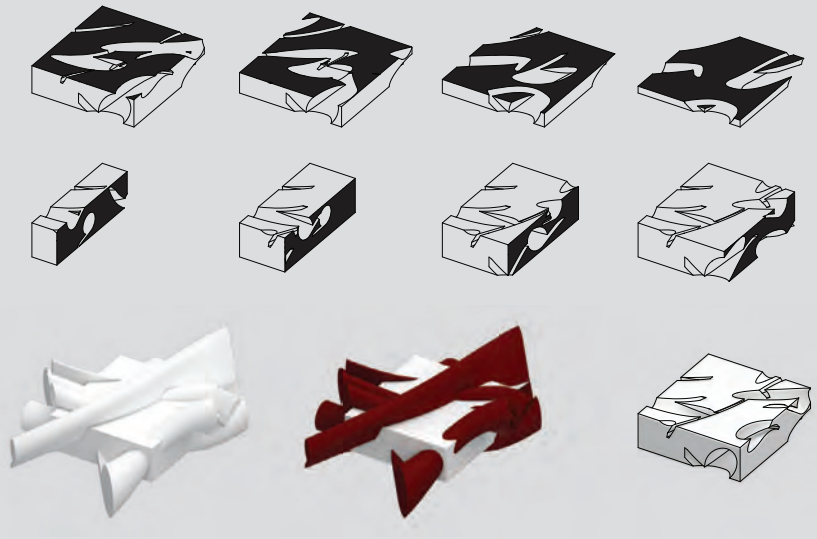


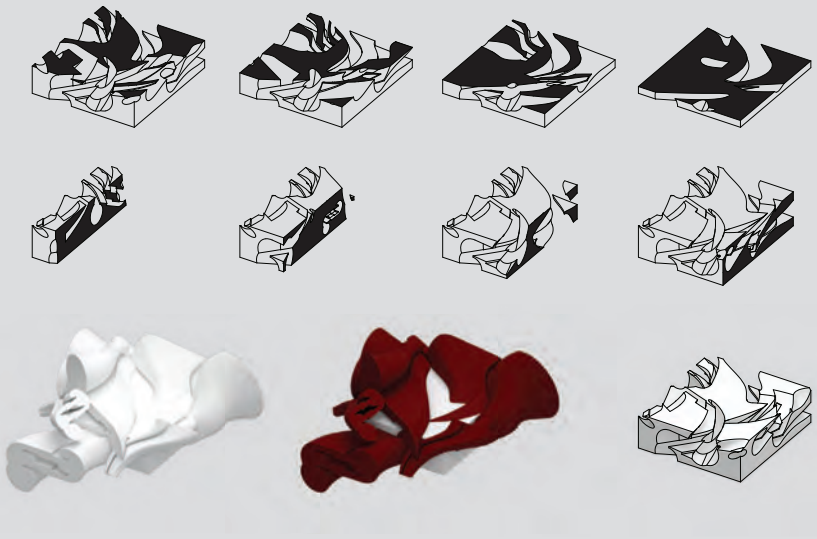


PROFILE “A”

The studio exploring the potential relationship between poche and void, curve and line, surface and solid, etc. The early study using different profiles and technic to create spacial relationships. The profile "A" is using extrude, boolean different, twist, etc to create a dynamic shape.



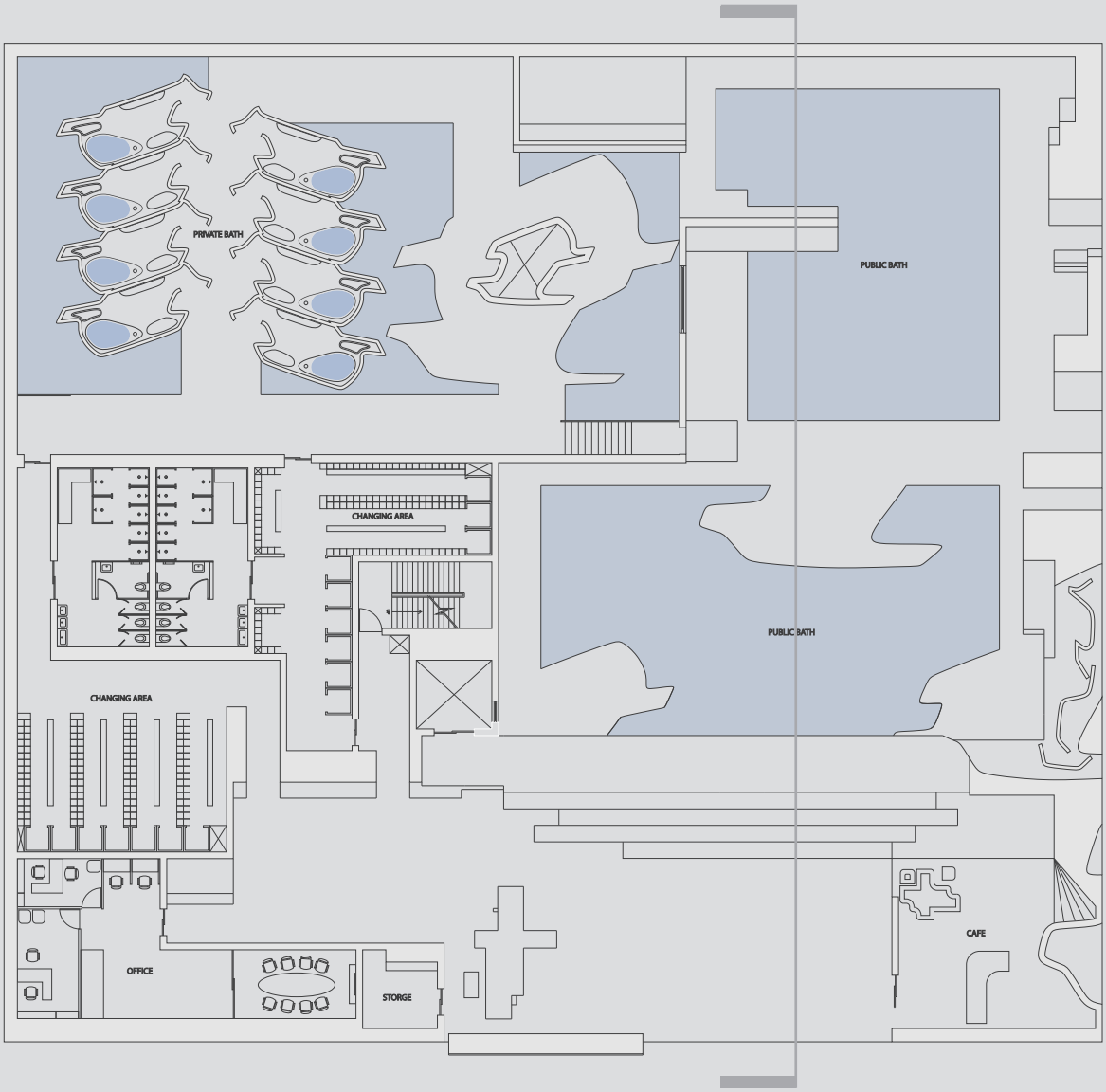


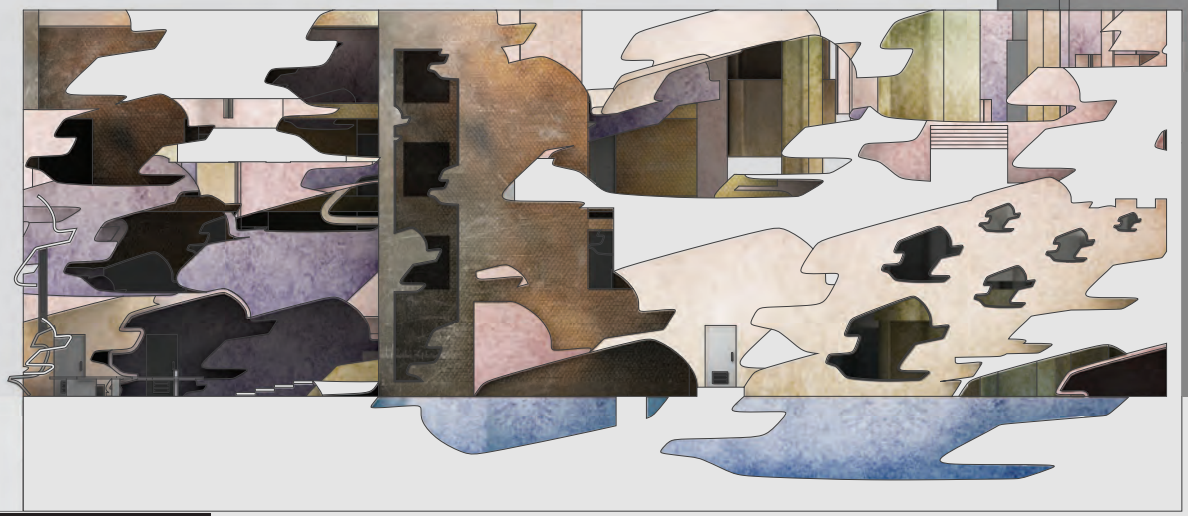




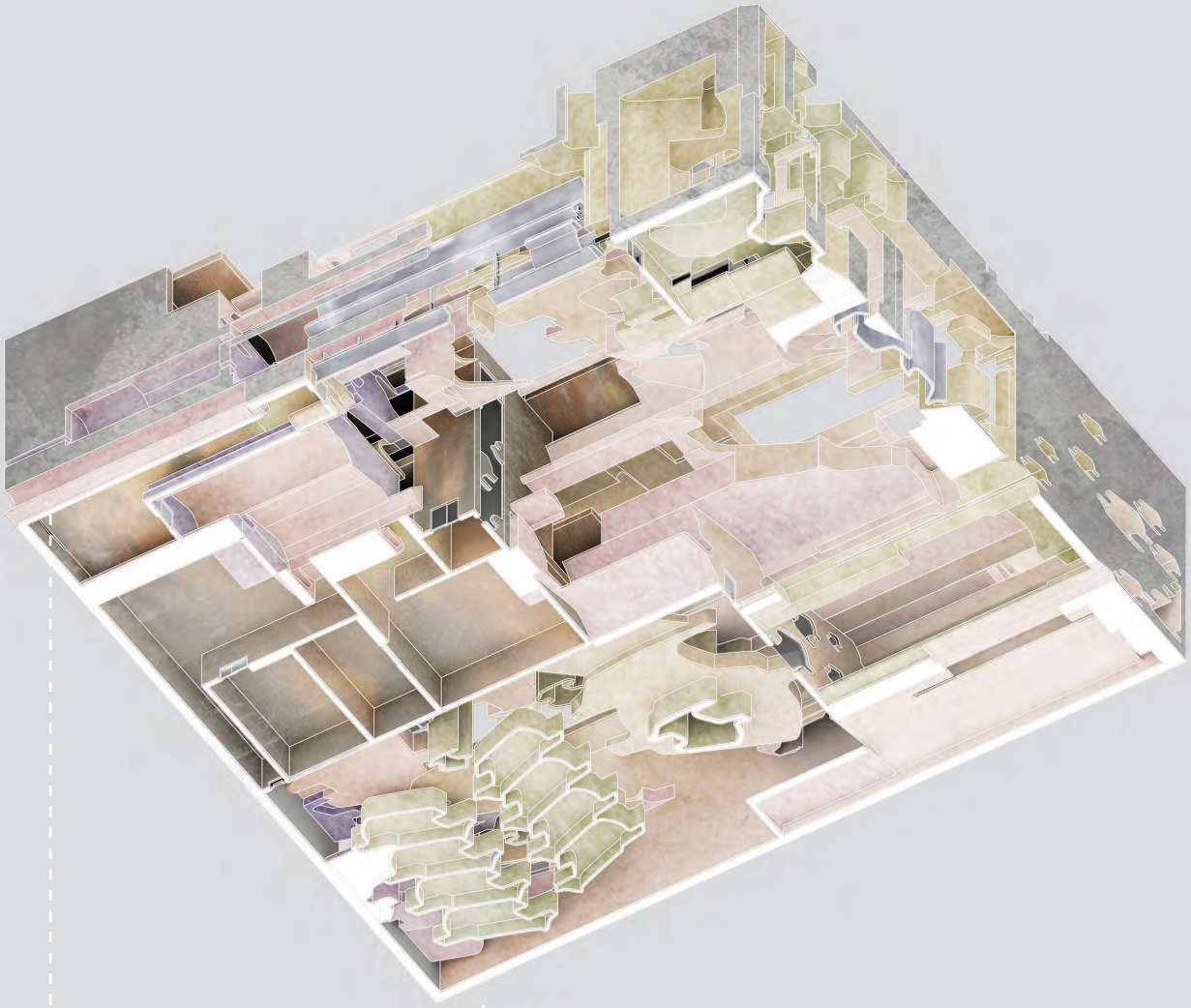
The profile "B" using a duplicated simple pattern as the combination to create some pixeled void. Urban bathhouse is erotic and obscured. The complex spacial sequence creates a treasure for people to explore.

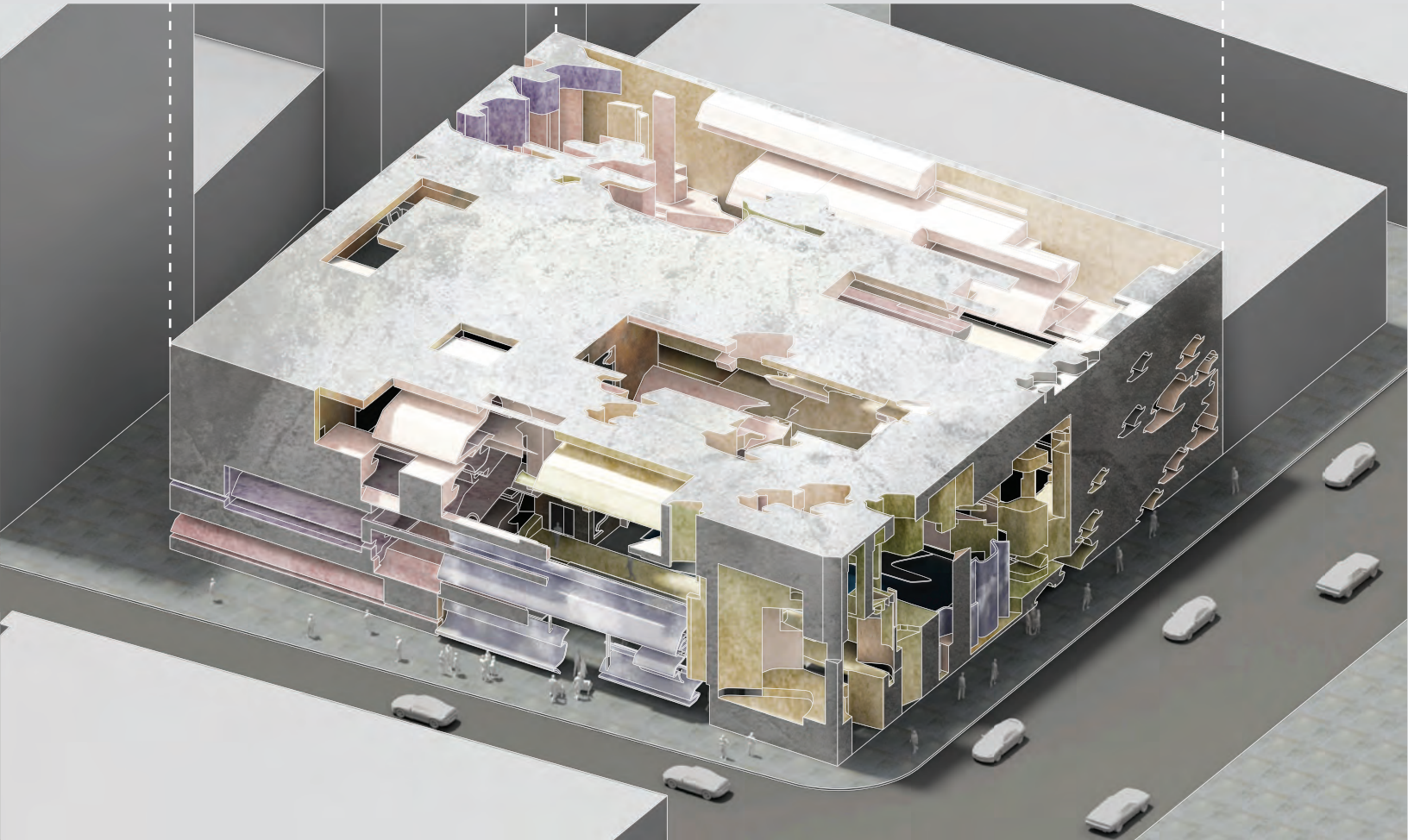
PROFILE “B”





GROUND LEVEL PLAN + SECTION





DECK RENDERING

The deck is above the private bath, it connects hotels and different feature baths on the second level. Different color texture creates an isolated space.





The lobby connects two main public baths to the main entrance. Water is falling down from a hot bath to the main bath, program and spacial sequence are continued.

LOBBY RENDERING



Untitled

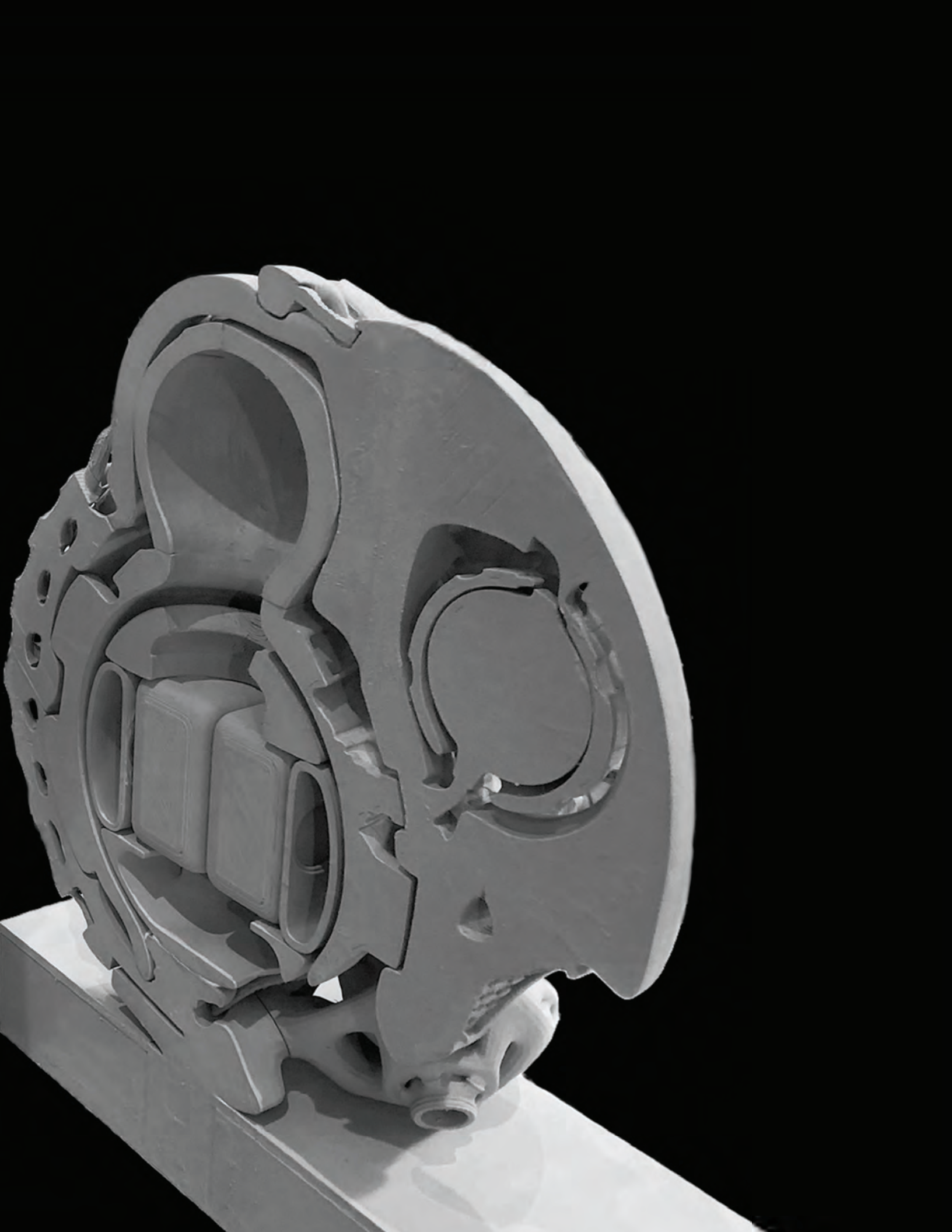
How can a new urban ecosystem recreate living and working for human?

TYPE: Academic Work

LOCATION: Boston

PROFESSOR: Gregory Stroh

The topic of sustainability and efficiency become popular over the past 30 years. The project is exploring some potential features of this topic from different perspectives. The lack of efficiency in both Boston Common and residential houses create a complementary connection, it using the space in Boston Common as living place during the night, then transform to the mobile device to feedback the city during the day. The project does not just design a single mobile home or research robot, also use the concept of swarm and decentralized network to create an urban ecosystem.



CITY/SITE ANALYSIS & DIAGRAM



Green space

The common problem in the modern city like Boston is the efficiency of space, most of the green space are occupied only during the day, but there is huge potential ability during the night. The green space in Boston is defined as the park, those parks could help to establish the docking for the project.



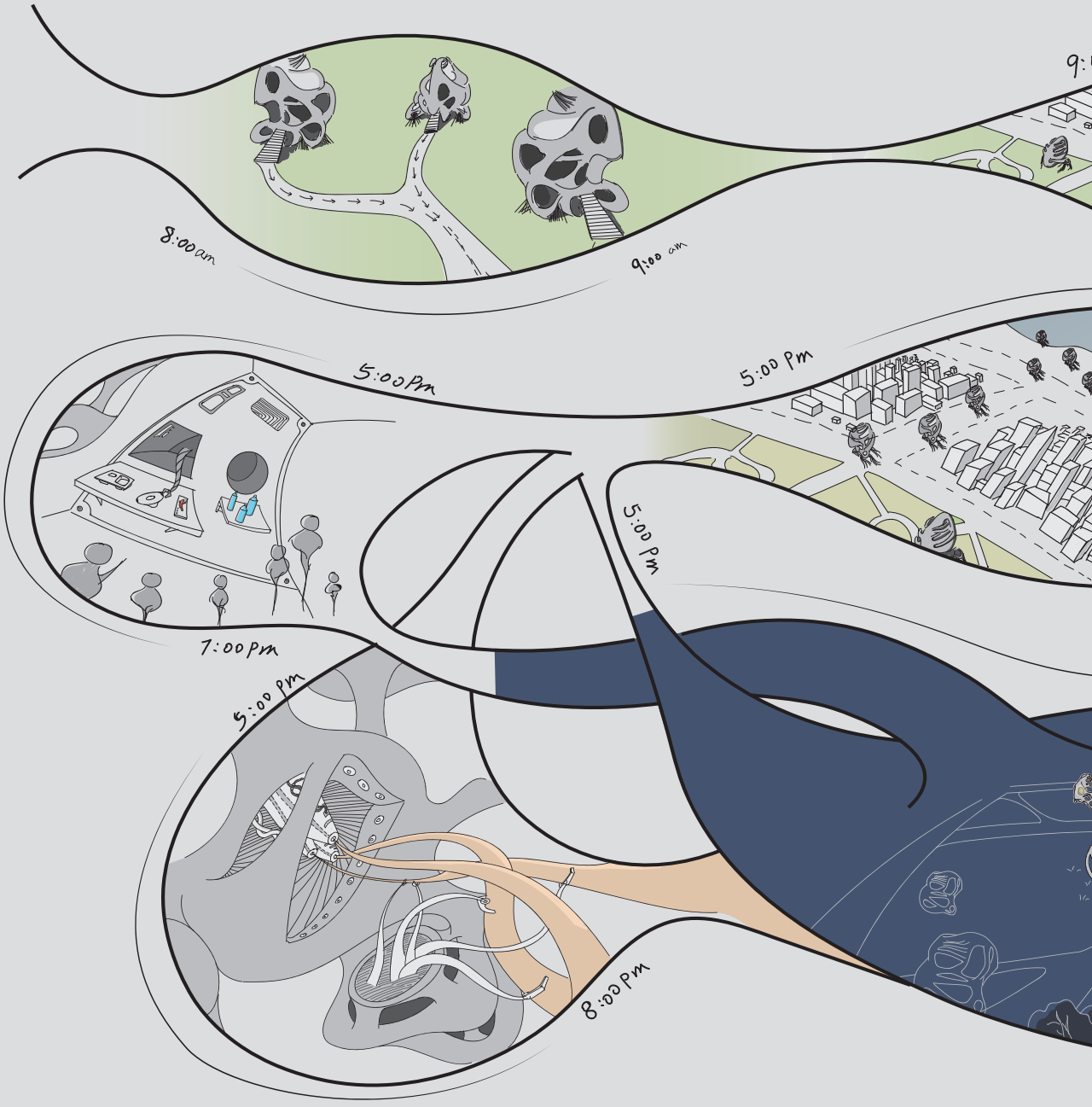
Water

Boston has two main water sources: Charles River and Bass River, they are all connected to the Atlantic Ocean. According to local research that water quality in Boston is not ideal. Seafood is the feature in Boston. Those two catergaries are helping the project to feedback the city and environment.



Dock

The main site for the project is Boston Common pa
quantitative docking stations are installed in Bosto
Common for the project to get charging. Each dock
station is buried underground and chains together, th
could reduce the impact of the activities during the d
and night.





Track

,order to achieve different functions, the project needs
o move the cross between different districts in the city.
gh as china town, retail area, main downtown, etc. The
project's track follows or avoids local transportation.
y



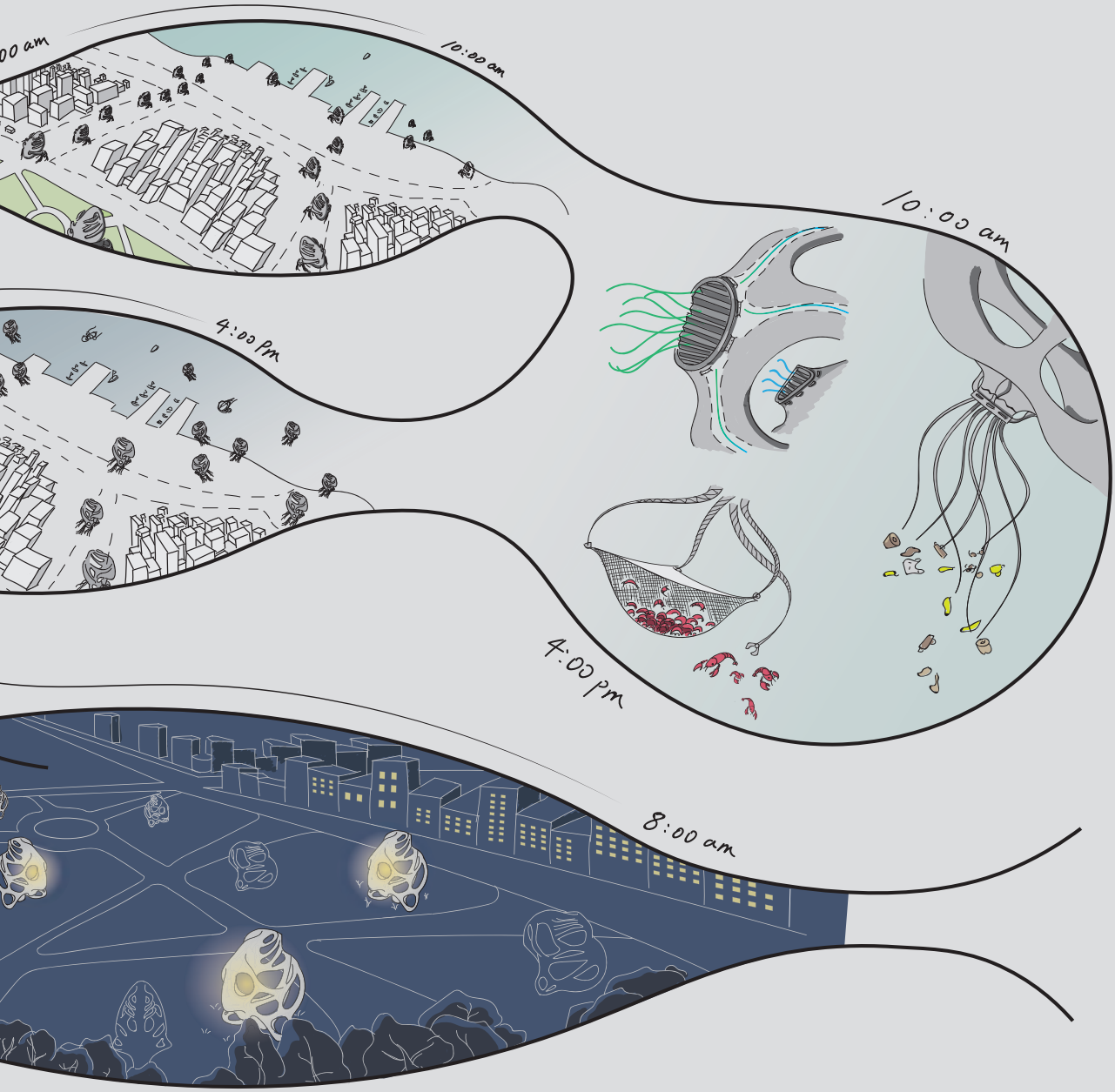
Functions

The project is not single object, it is a swarm that working together. Some will be sent to clean the environment, some will be sent to do the research in the river or produce food, and some will be staying in the Boston common park for people who are not going to work during the day.



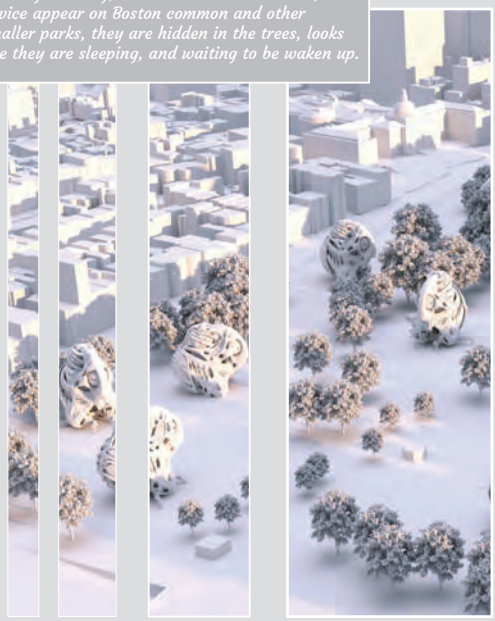
Districts

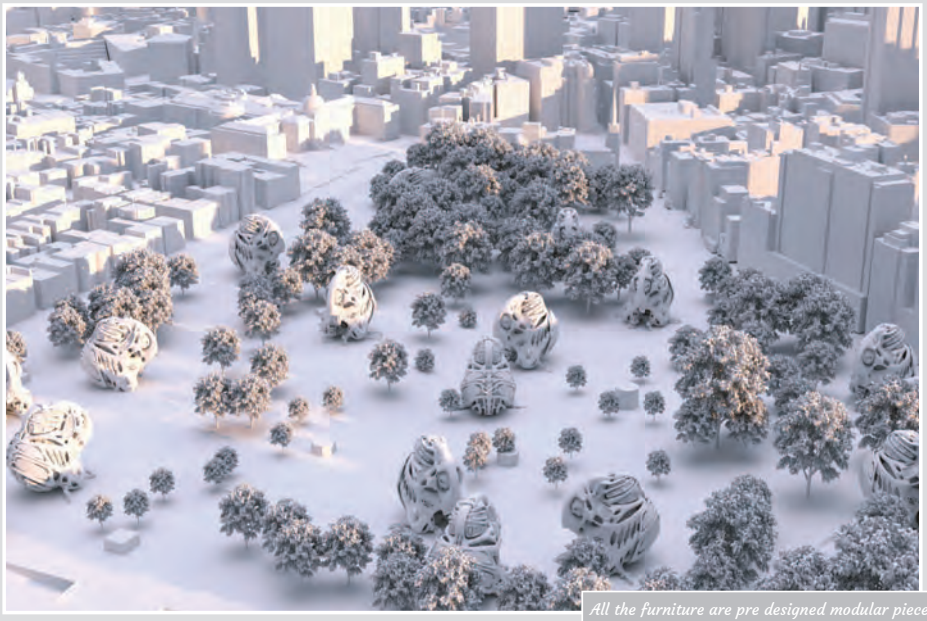
Based on the different functions, the city divides into several districts. The area has more residential buildings will be assigned as retail and living service. The area like china town will be assigned as street clean and food-producing service. Sea port area will be more research and environmental testing fuction.



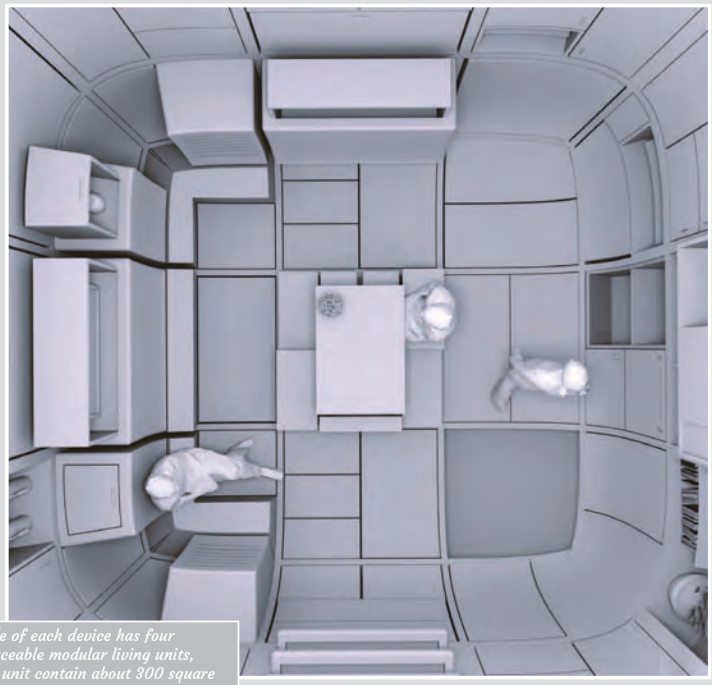
STORY DIAGRAM

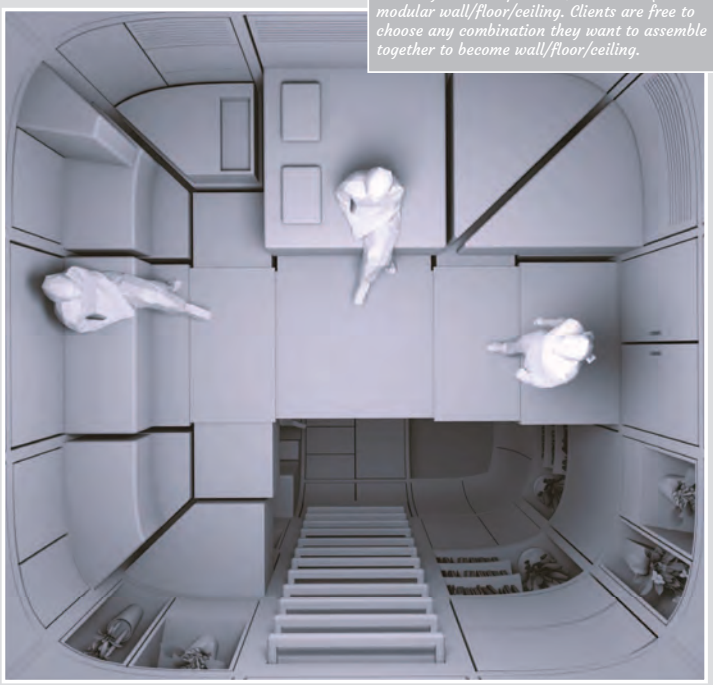
One day morning, hundreds and thousands of device appear on Boston common and other smaller parks, they are hidden in the trees, looks like they are sleeping, and waiting to be waken up.



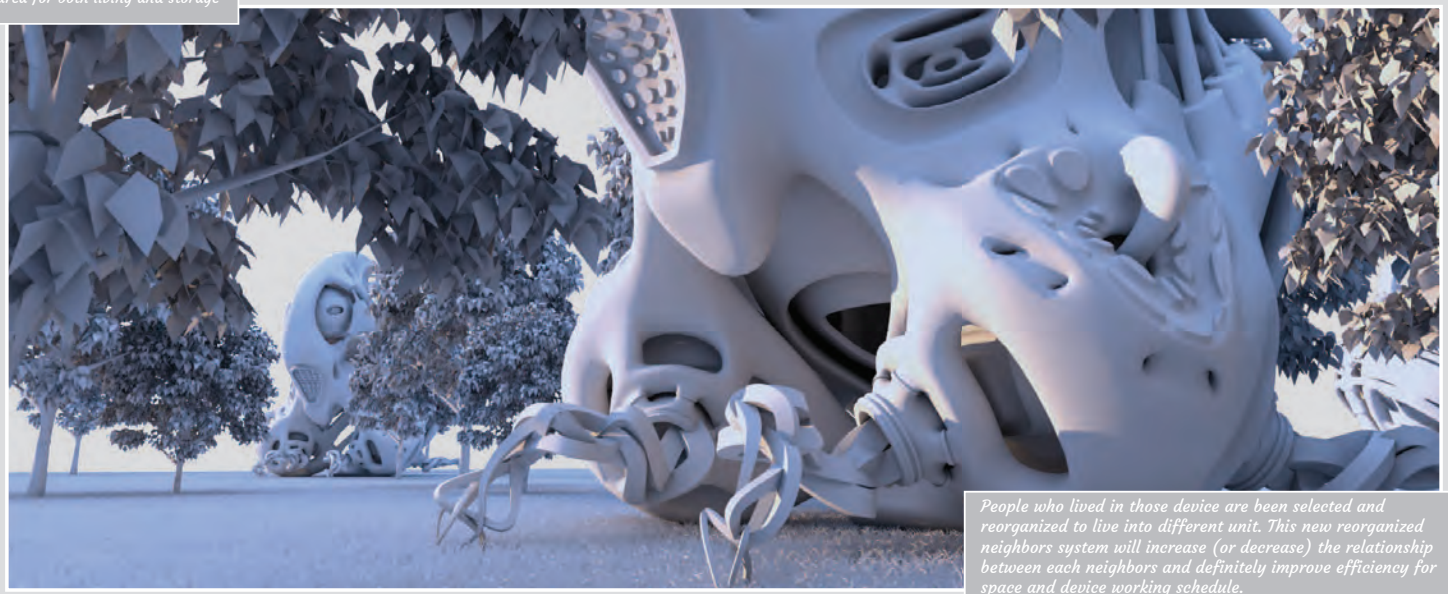


All the furniture are pre designed modular pieces, and they all could pull out from each square modular wall/floor/ceiling. Clients are free to choose any combination they want to assemble together to become wall/floor/ceiling.





Inside of each device has four replaceable modular living units, each unit contain about 300 square feet area for both living and storage

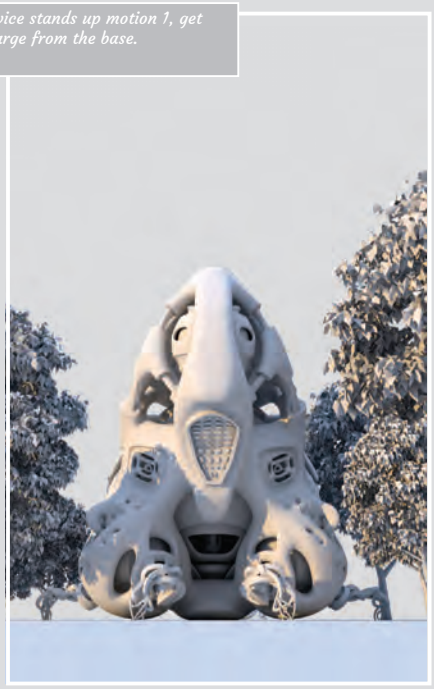


People who lived in those device are been selected and reorganized to live into different unit. This new reorganized neighbors system will increase (or decrease) the relationship between each neighbors and definitely improve efficiency for space and device working schedule.

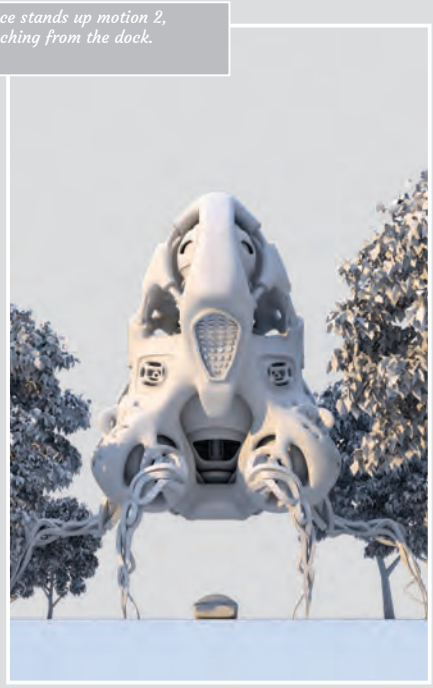


"Good morning everyone, hope you have a good day". Around 7:00 am, people are waking up and get ready for work, 7:30 am they will exit the device and go to work. After all the units are empty, then will be the device time!

Device stands up motion 1, get charge from the base.



Device stands up motion 2, detaching from the dock.



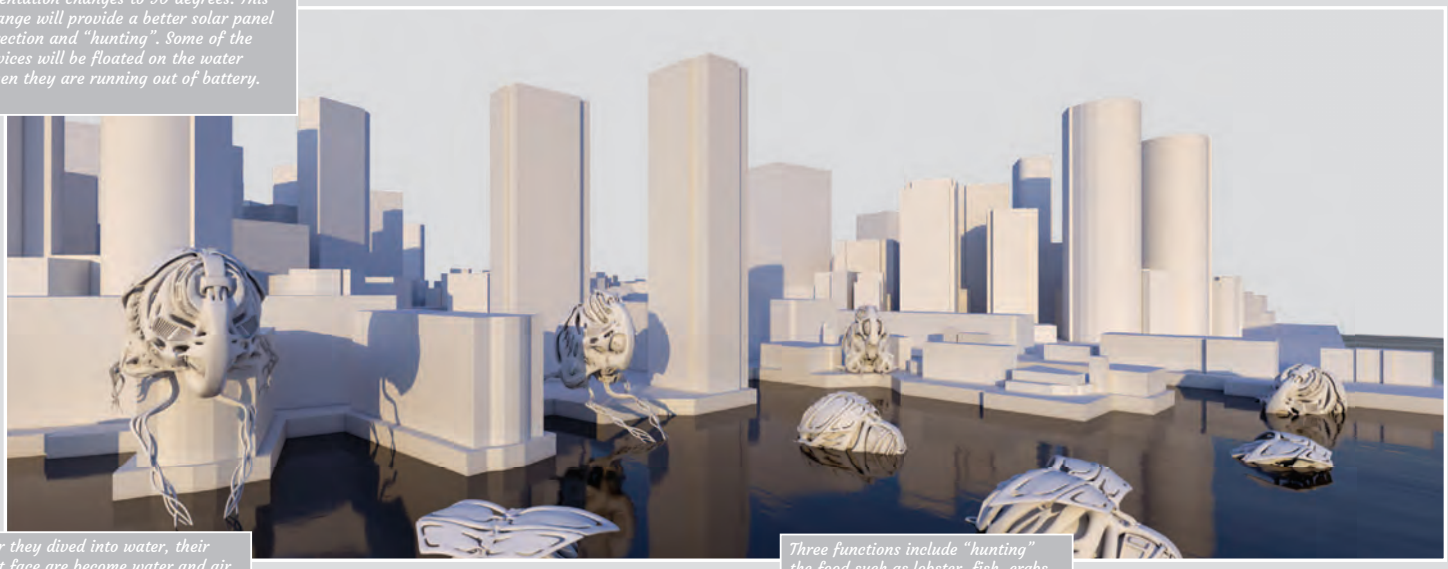


Device stands up motion 3, fully isolate from ground, looks like they are floating (but not).

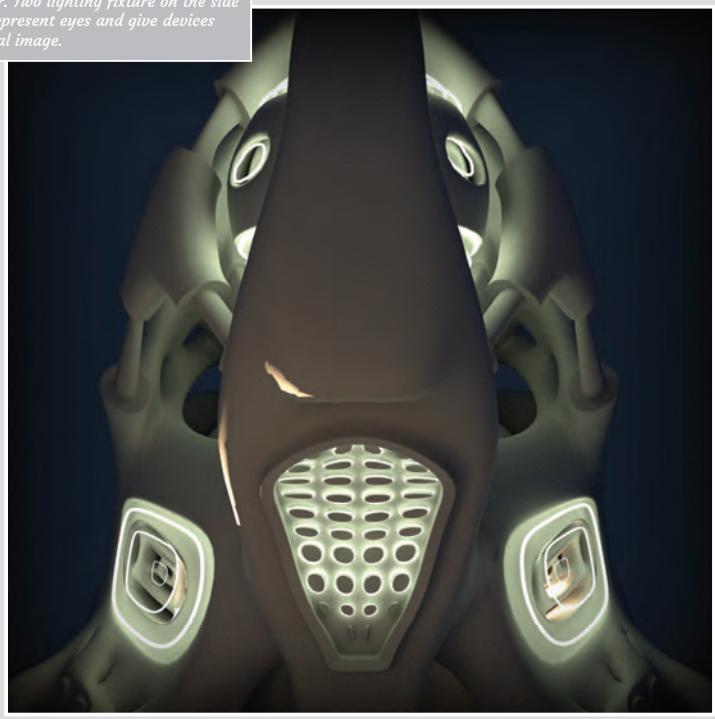


After people left those devices, those device are start moving toward to sea port area for material, food collect and research. Because of the thin flexible leg design, they are be able to walk or climb on anything.

When they dive into the water, the orientation changes to 90 degrees. This change will provide a better solar panel direction and "hunting". Some of the devices will be floated on the water when they are running out of battery.

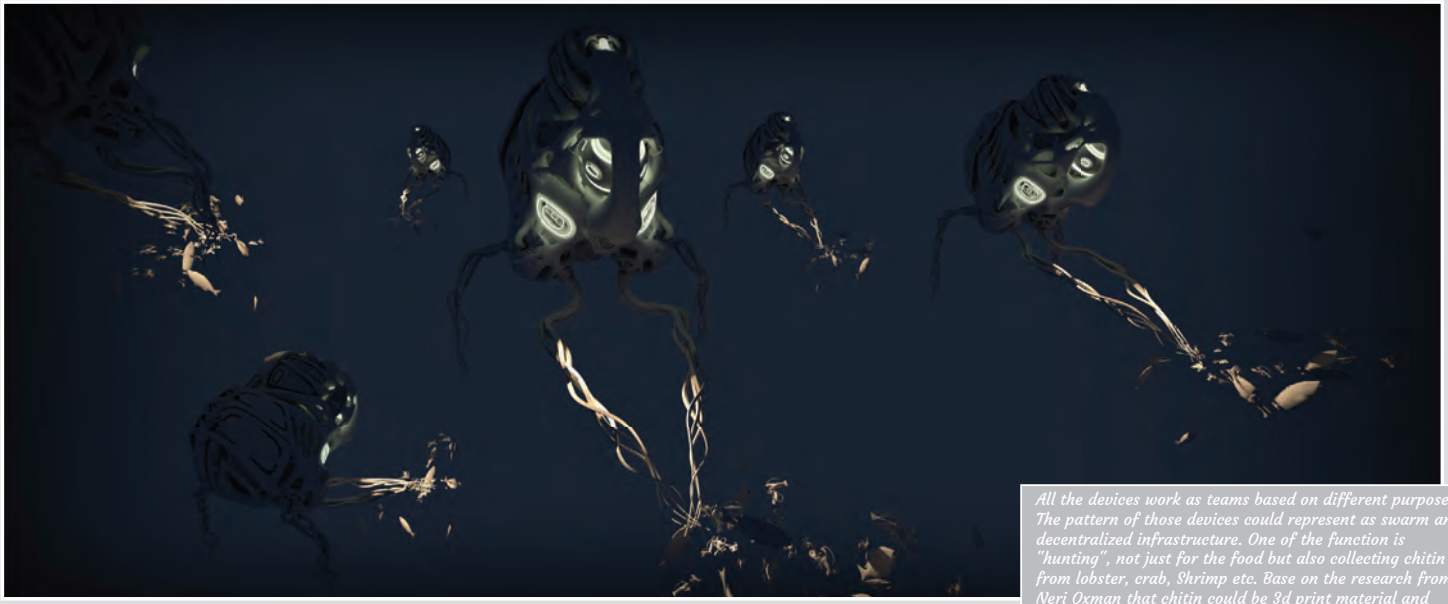


After they dived into water, their front face are become water and air filter. Two lighting fixture on the side to represent eyes and give devices visual image.



Three functions include "hunting" the food such as lobster, fish, crabs, shrimp etc. And collect waste material such as plastic, metal, and any recycle material etc. and clean, research the environment.



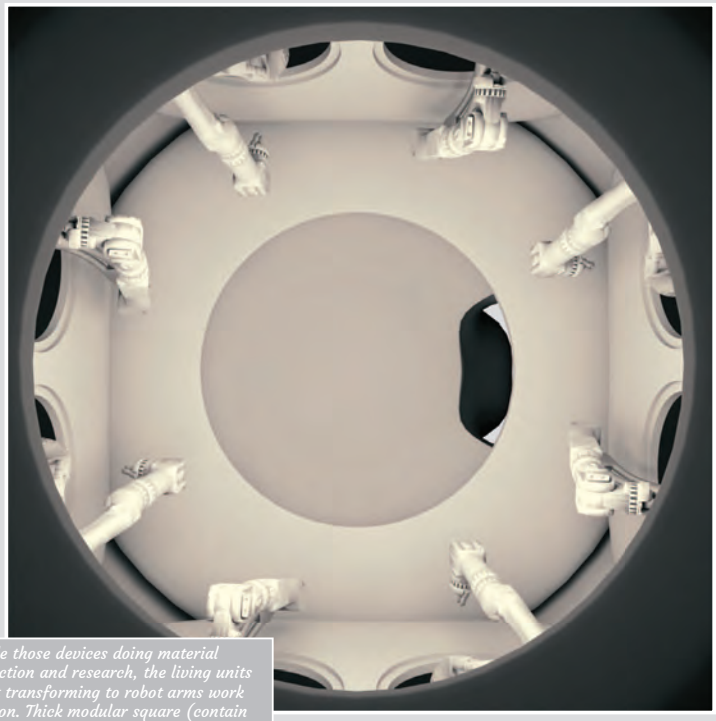


All the devices work as teams based on different purposes. The pattern of those devices could represent as swarm and decentralized infrastructure. One of the function is "hunting", not just for the food but also collecting chitin from lobster, crab, Shrimp etc. Base on the research from Neri Oxman that chitin could be 3d print material and totally sustainable and water-soluble.

After devices have done the work, they will return to Boston Common and other parks to get recharge for the next day. After they return to the base the work station transform back to living units, devices start to provide a space/community for people.



"Secret function alert!" They are self-producing and evolving.





While those devices doing material collection and research, the living units start transforming to robot arms work station. Thick modular square (contain furniture) which made each living unit are reassembled to become work station.

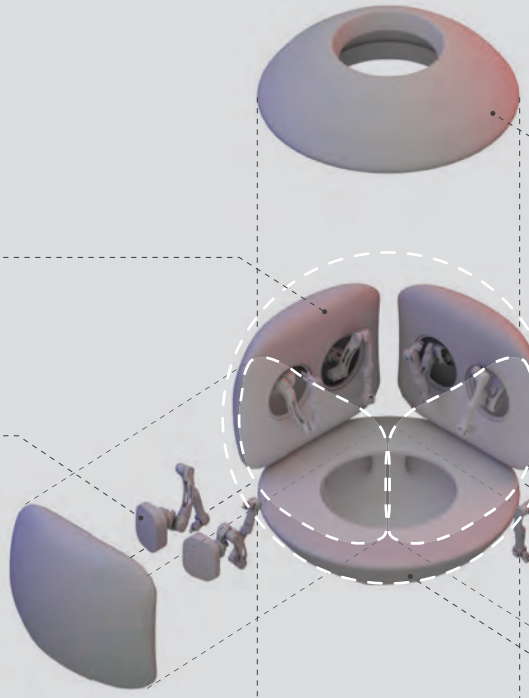




"GOOD NIGHT!"..... and ..... "GOOD MORNING"

SHELL AXON & DIAGRAM

THIRD SHELL
Storage and robot arm station.



Top of secondary shell.
The space use for mechanical equipments.

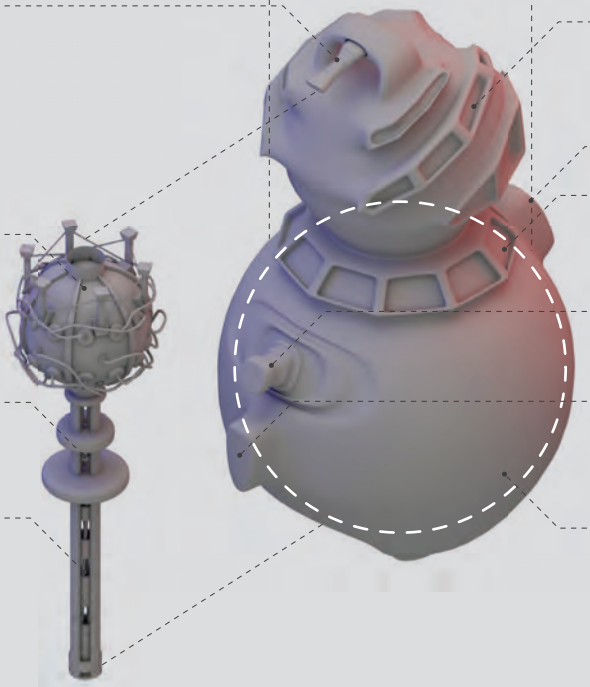
Secondary shell.
Space for robot arm and material storage

Multi functional Robot arm installed in four secondary shell.

Function 1: Research.
Function 2: Material analyze.
Function 3: Material recycle.
Function 4: New material produce.
Function 5: Food produce.

Multi functional Robot arm installed in four secondary shell.

Secondary shell base for living units entrance.



Connection to central nervous system (computer)

Cooling vent for core .

Joint connect to outer structure.

Cooling vent for spinning plate.

Mechanical core.

Connection to central nervous system (computer)

Mechanical plate.

Joint connect to outer structure.

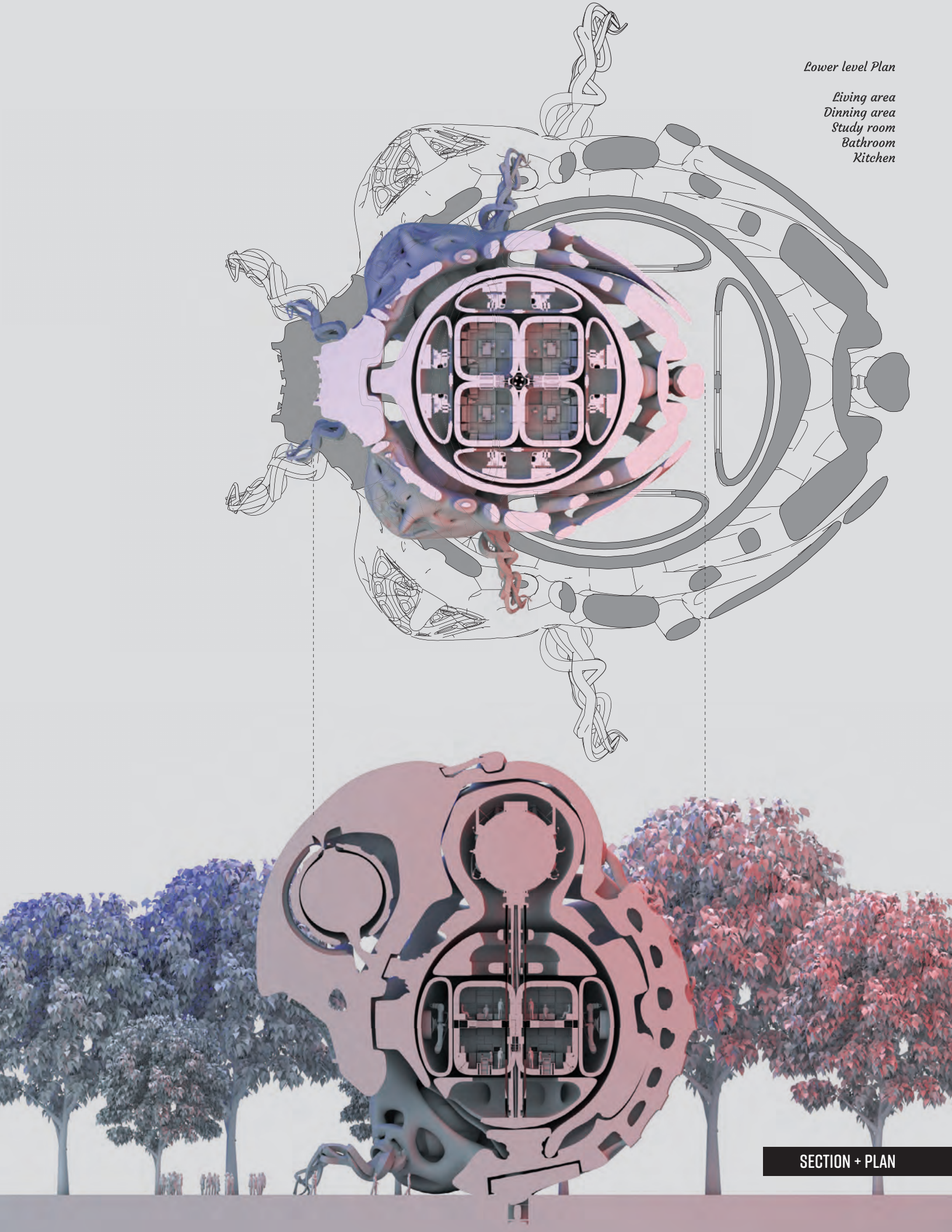
Elevator for living units

Primary Shell to protect living units and robot work station (secondary shell).

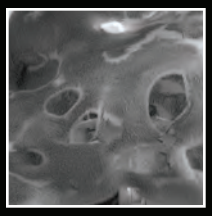
Primary SHELL
Protection shell &
Mechanical core etc.

Lower level Plan

Living area
Dinning area
Study room
Bathroom
Kitchen



SECTION + PLAN



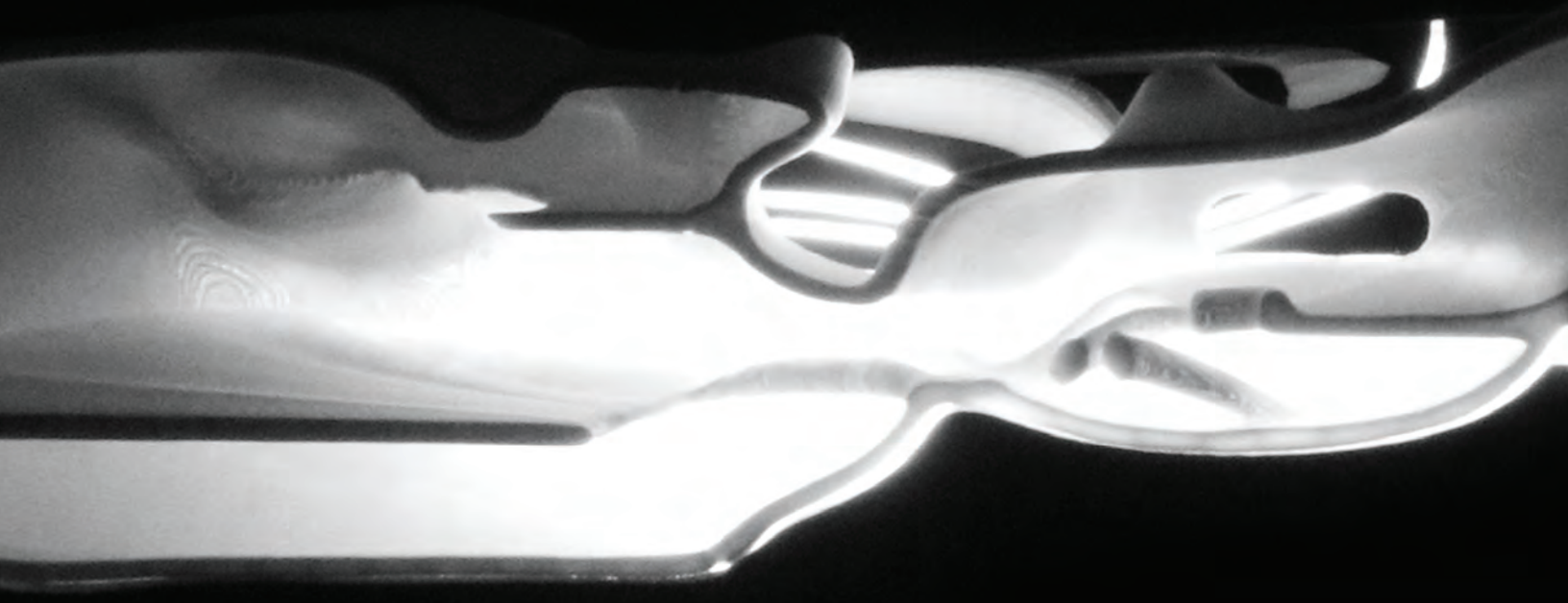
TYPE: Academic Work
LOCATION: Neom city Saudi Arabia
PROFESSOR: Charles Harker

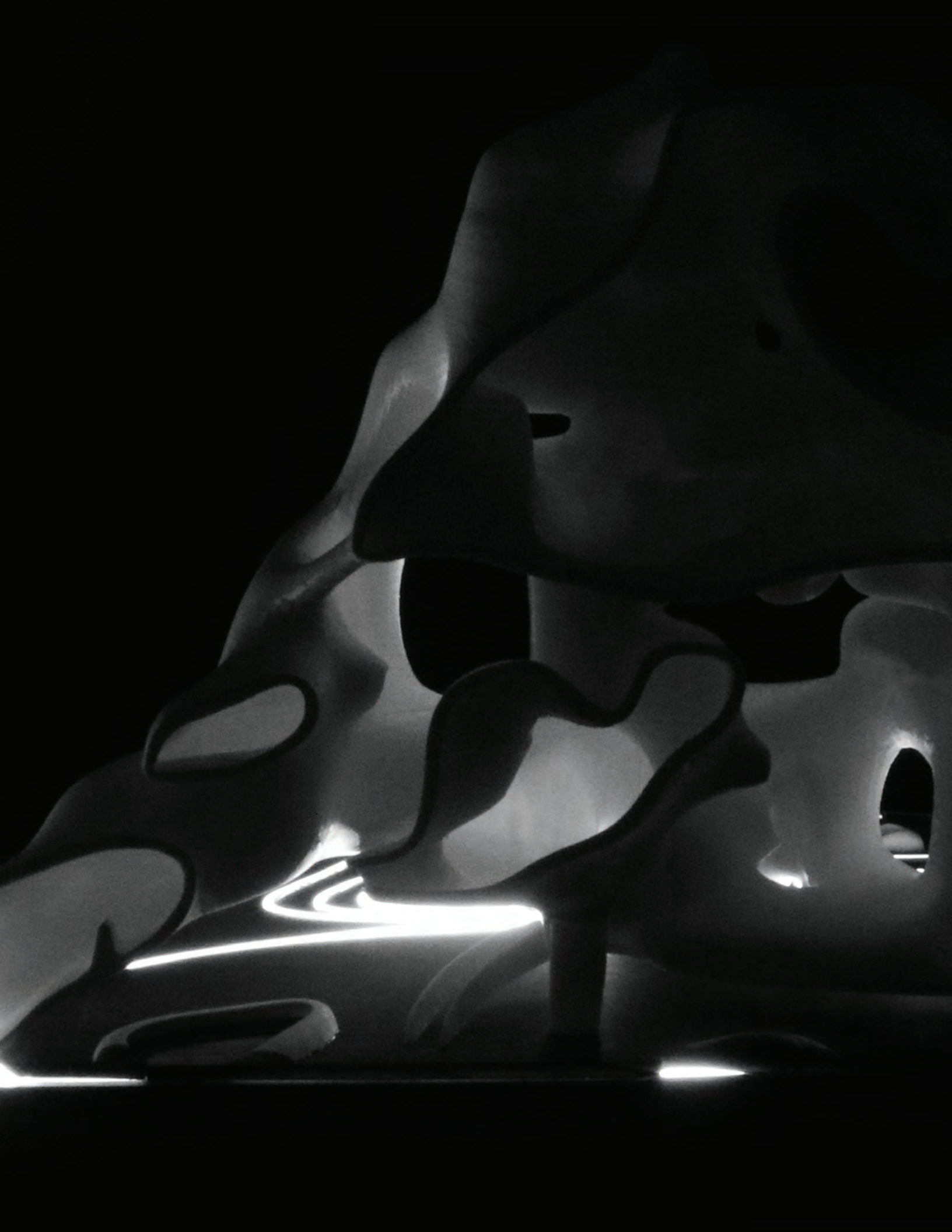
Morphology

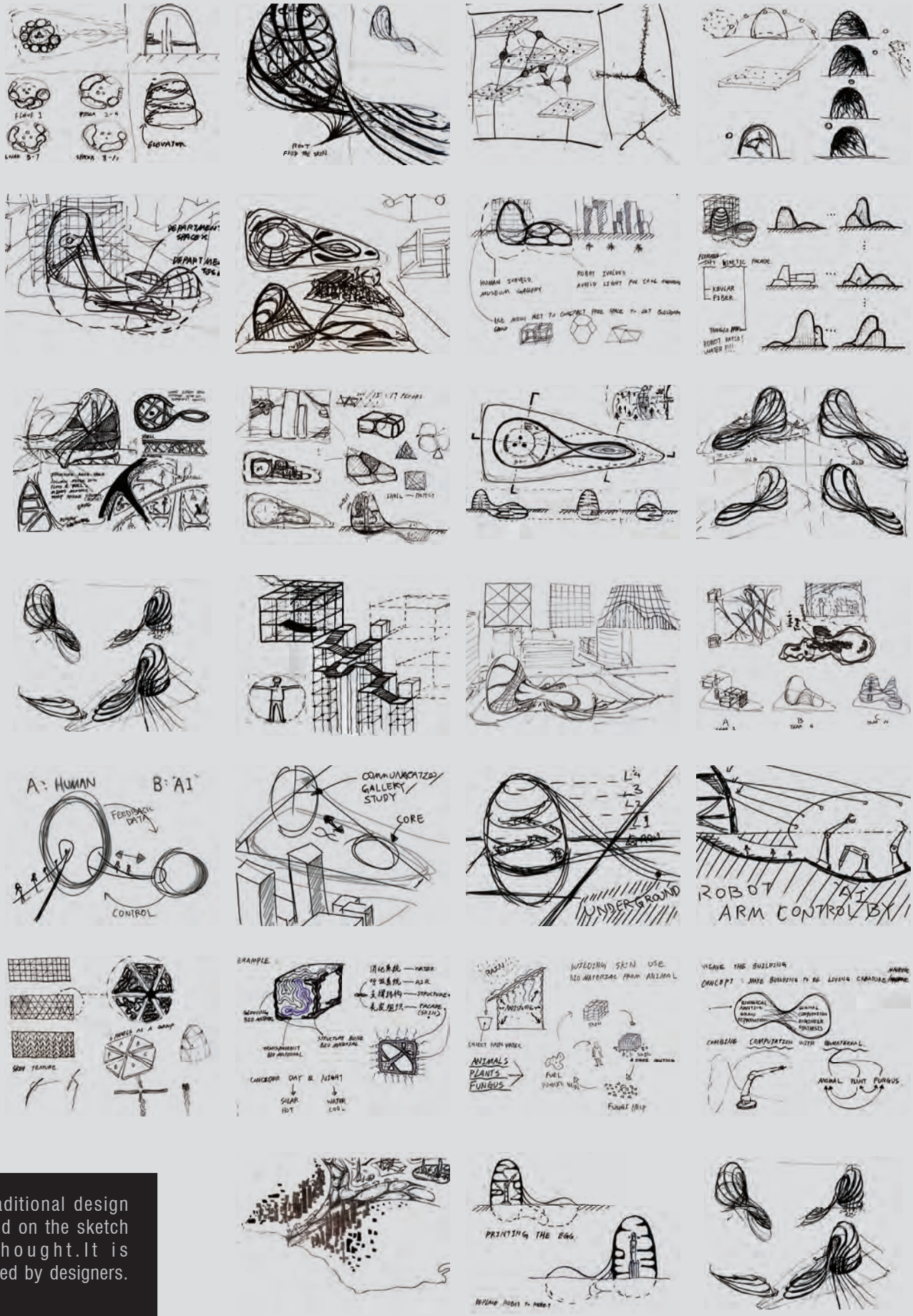
How can a building be able to think, grow like animal or plants that response to the human?

"Objects are self-aware, self-disassembling and re-assembling to accompany market evolution time-cycles and production streams, co-opting and co-evolving recycling or reusability criteria"

--- Bruce sterling's spime vision





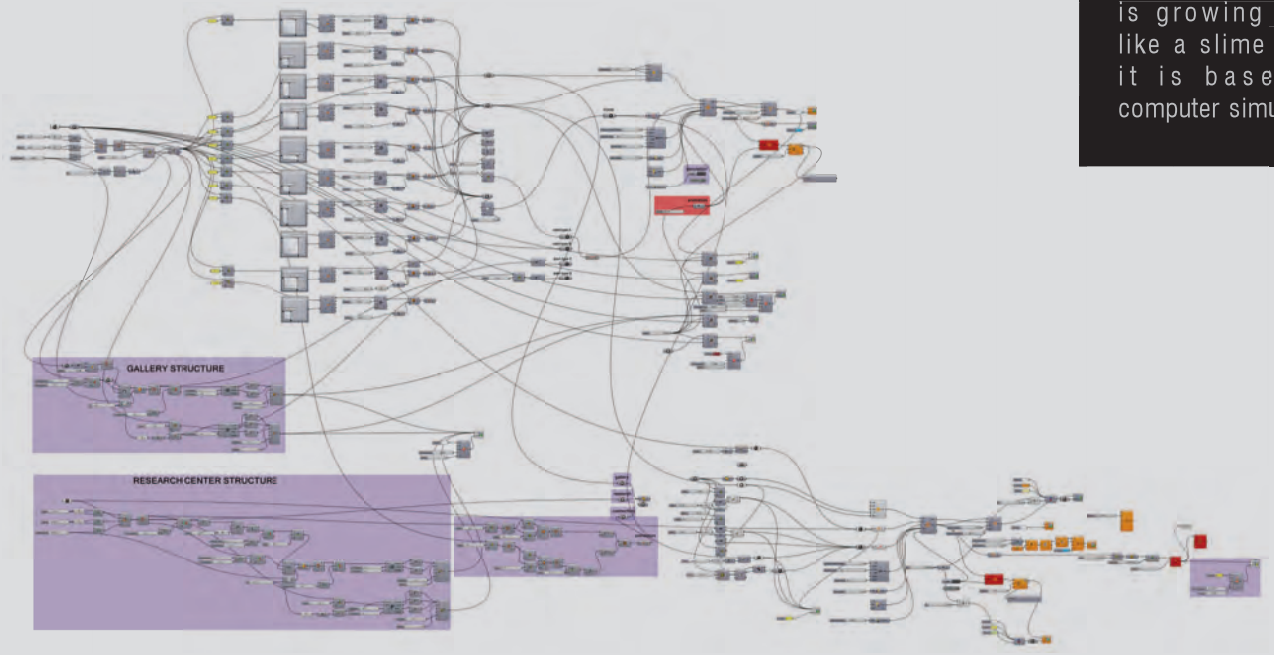


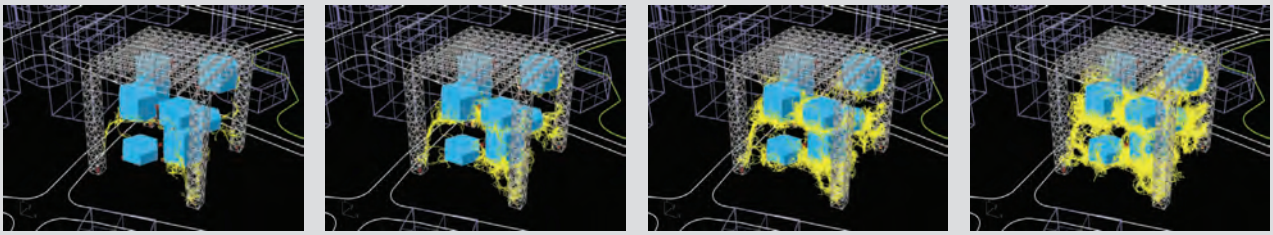
The traditional design is based on the sketch and thought.It is controlled by designers.

STEP A: ARTIFICIAL DESIGN

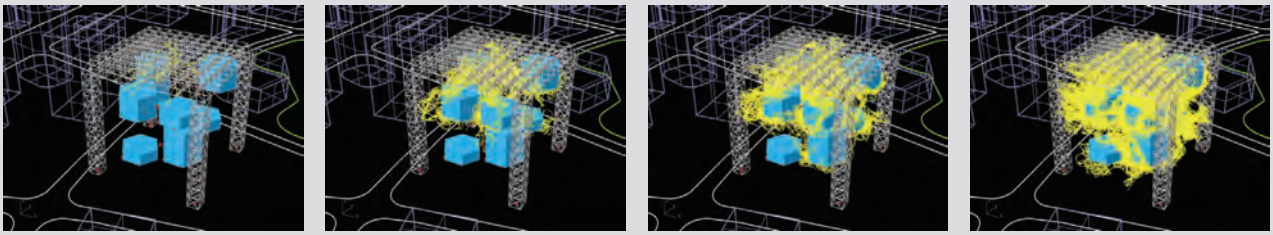
STEP "B" : SIMULATED

The building shape is growing itself like a slime mold, it is based on computer simulation.

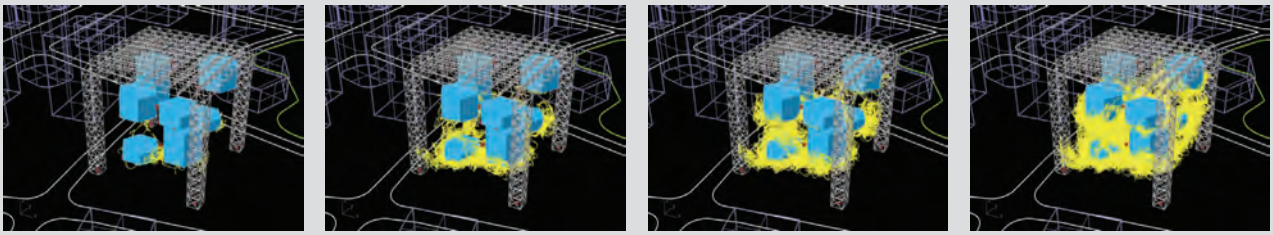




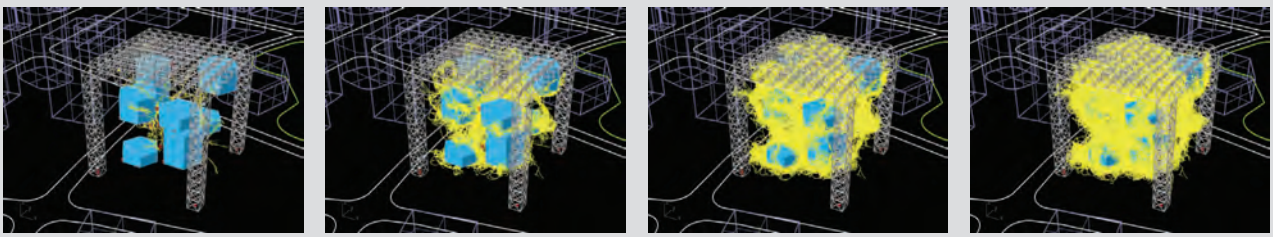
SIMULATION PATTERN OPTION I



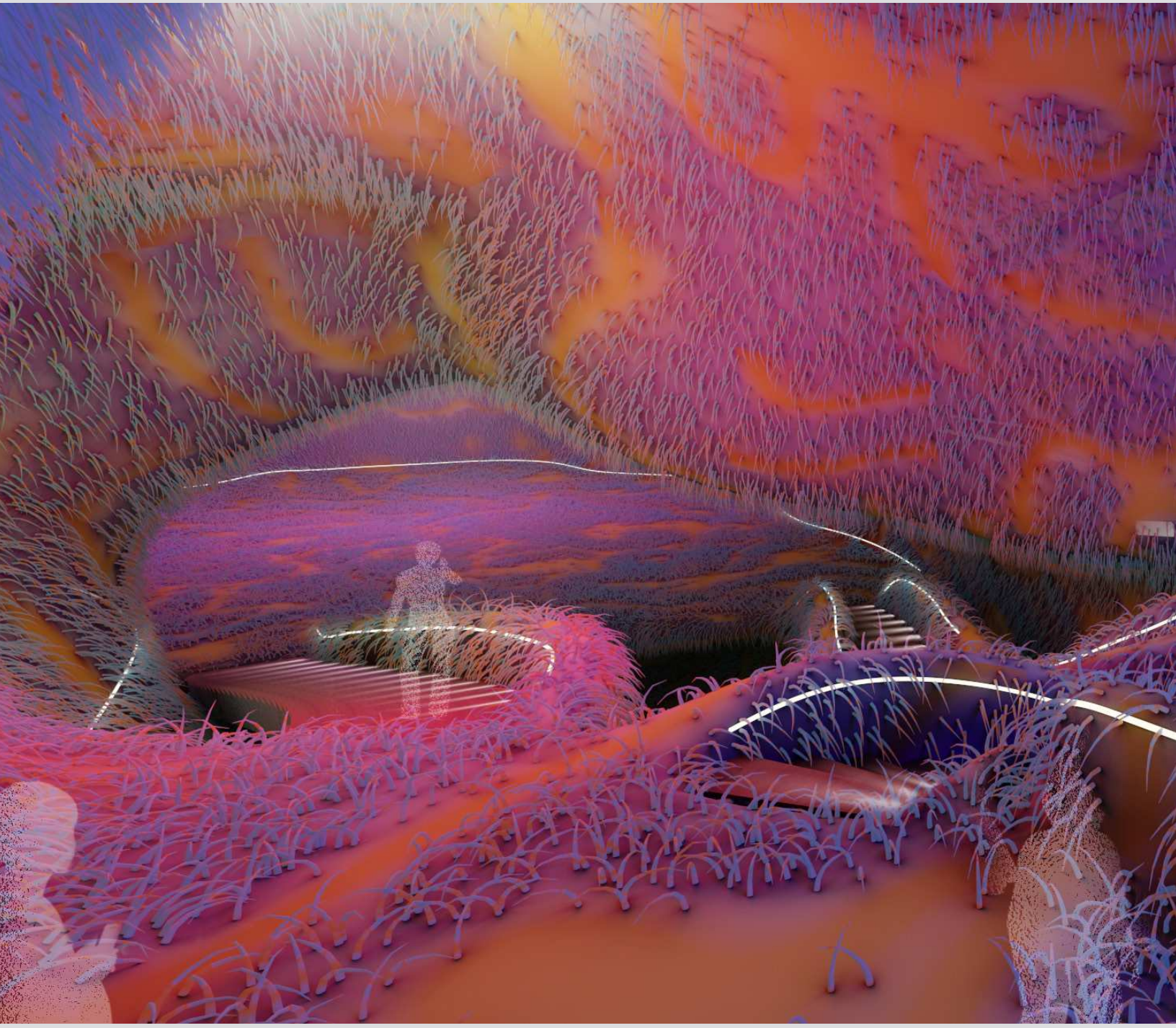
SIMULATION PATTERN OPTION 2

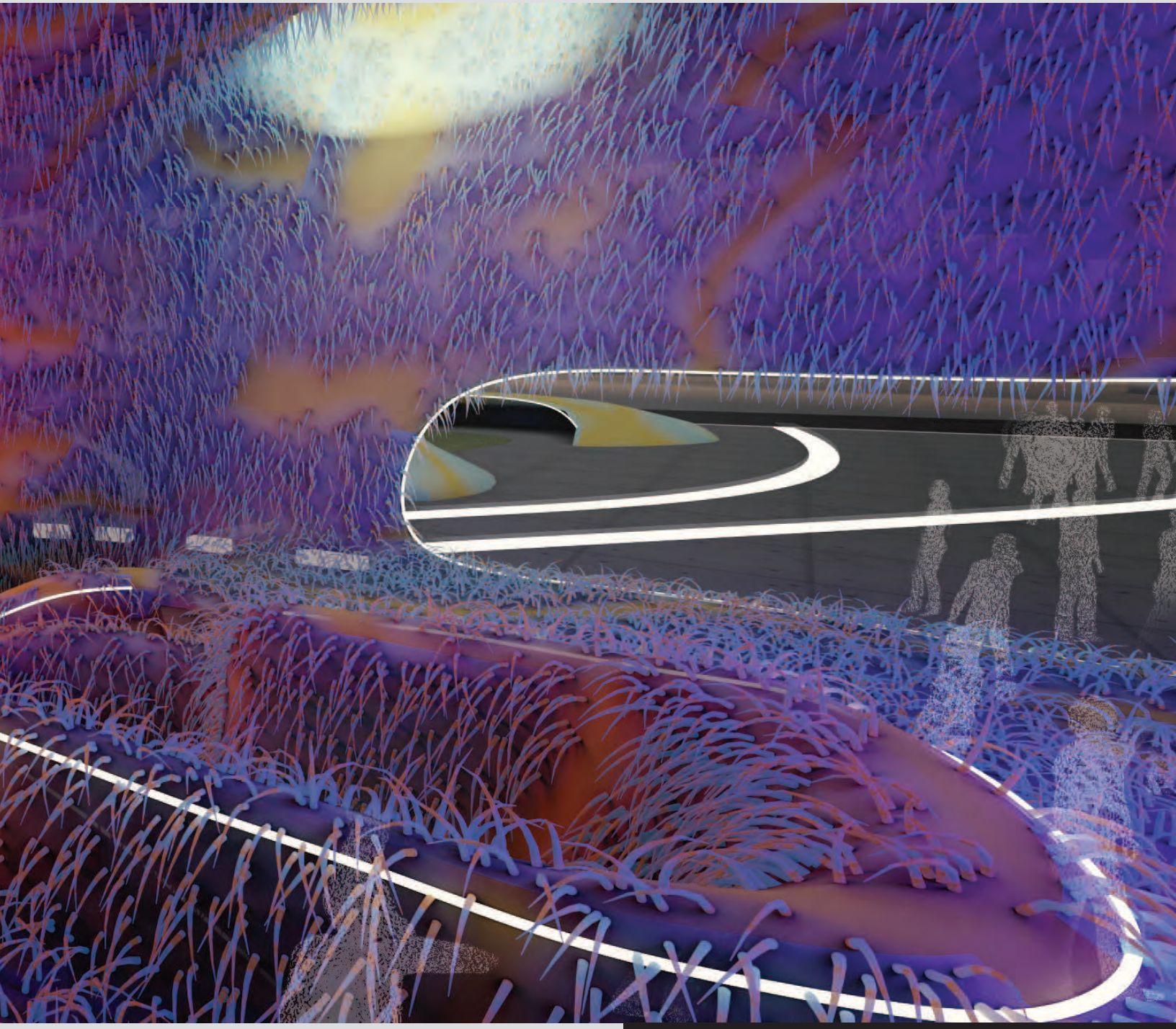


SIMULATION PATTERN OPTION 3



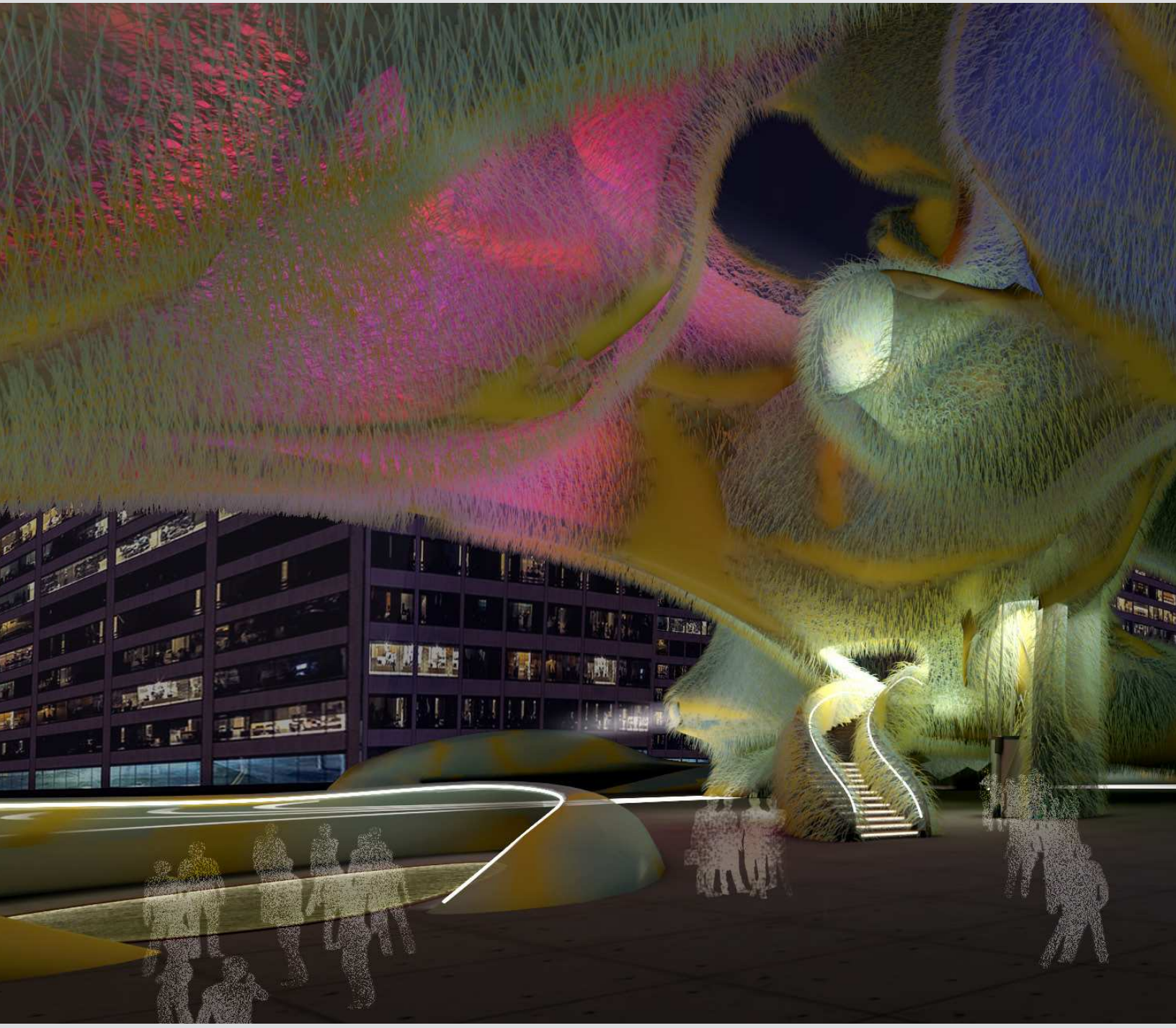
SIMULATION PATTERN OPTION 4

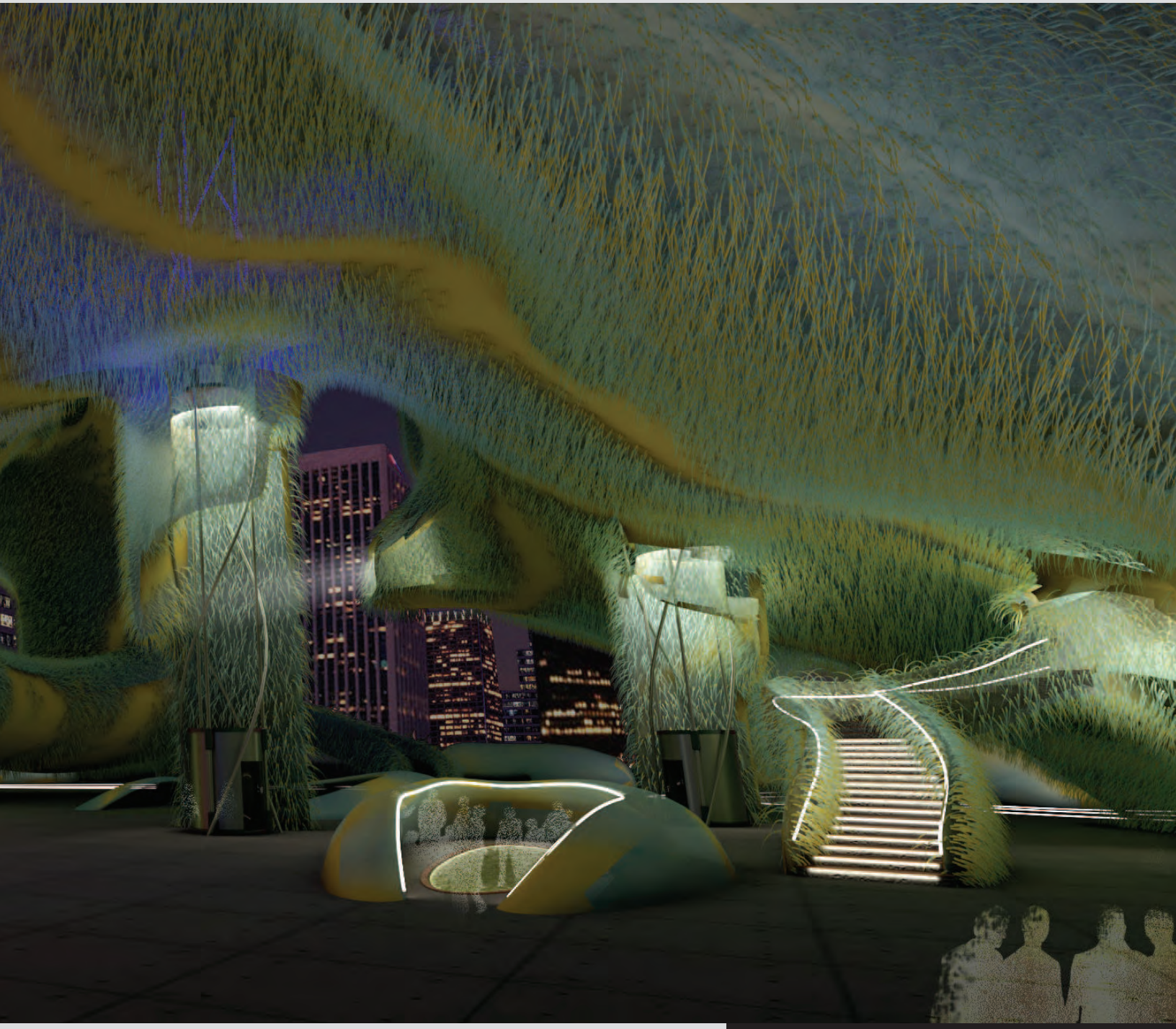




INTERIOR RENDERING

The interior wall becomes floor and ceilings, the definition of those architectural terms become blurred. In this animal-like interior with fur that could cure the people inside. The fur is following a specific pattern, for example on the southern side, the fur is growing denser than another side, this could help to control the temperature of the building. This new self growing bio-material is challenging the limitation of tradition material.

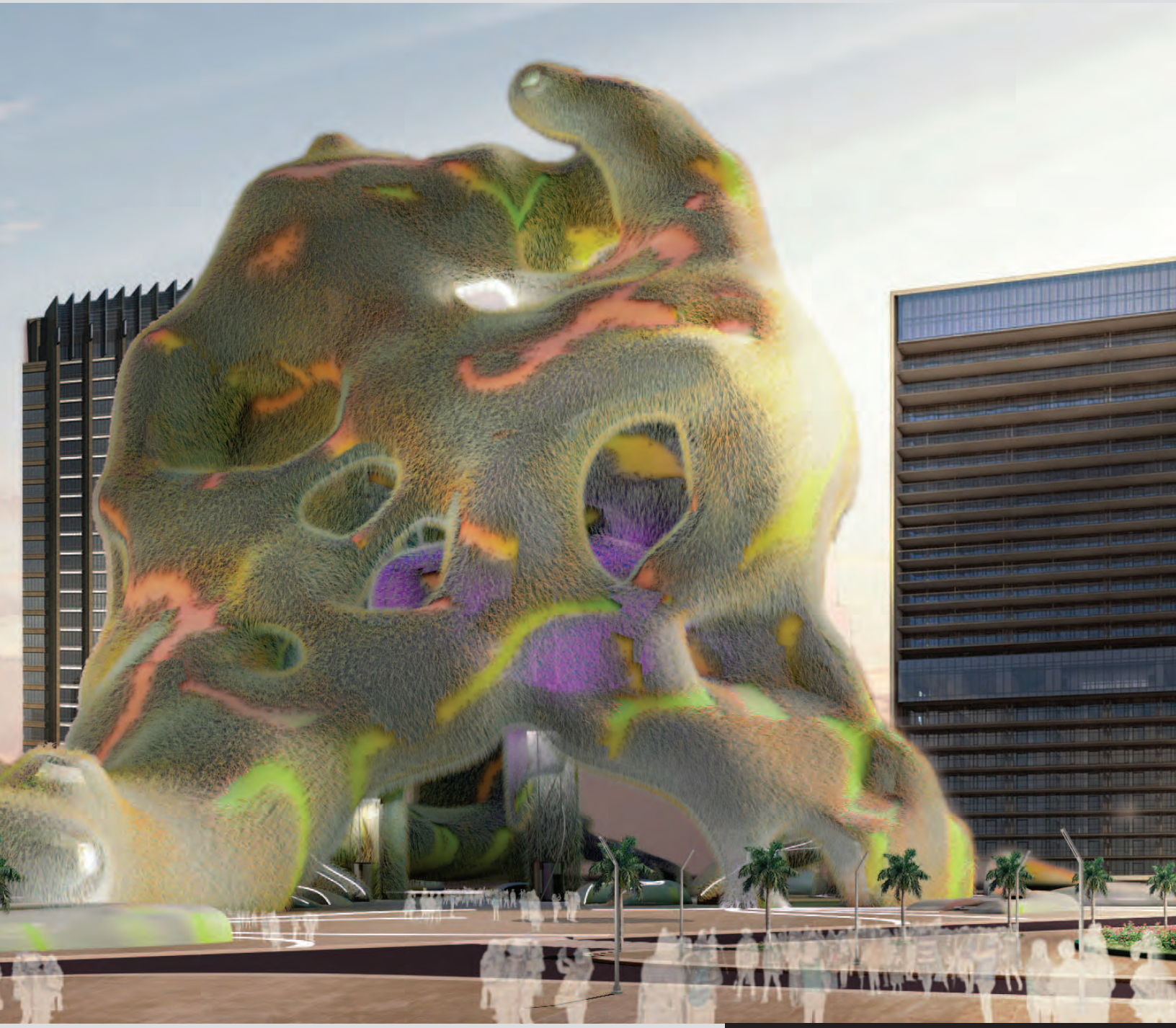




COURTYARD RENDERING

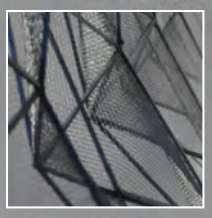
The "courtyard" is located under the main building, it connects the entrance to buildings around. In this new city - "NEOM", people are encouraged to go outside, a group of the playground is located in the courtyard.





EXTERIOR RENDERING

The new city - "NEOM" is focusing on biotechnology and medicine. The building is based on future development technology and strategy. The project is collecting reaction data from people, then analyzing and feedback to biotechnology companies.



Bike Hotel

How can an architecture be of service to the public, not only those who are accommodated within?

TYPE: Academic Work

LOCATION: Cuyahoga, Ohio

PROFESSOR: Brain Peter

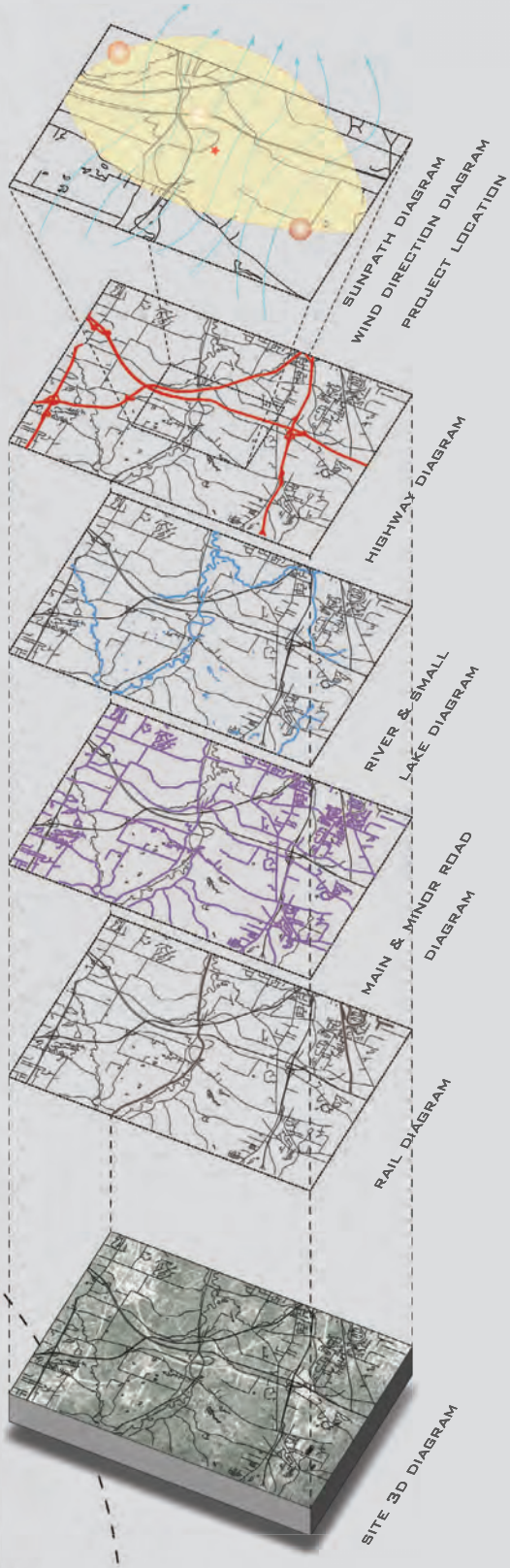


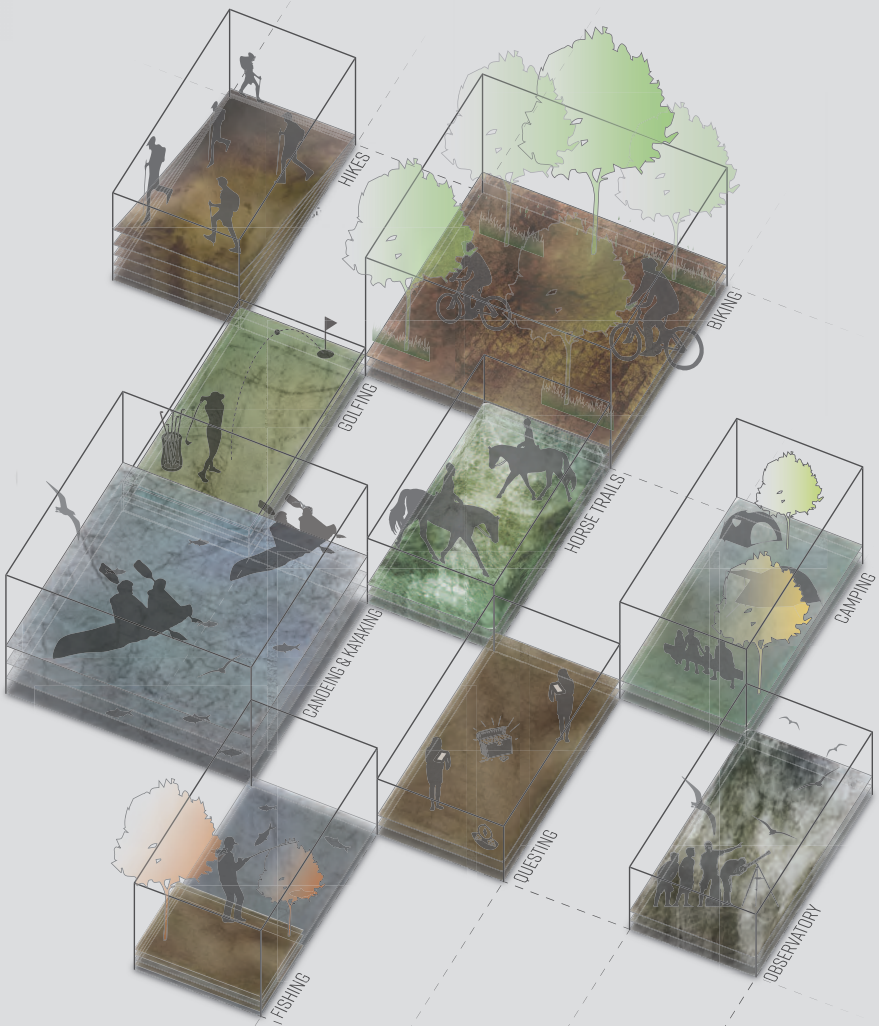
Project located at cuyahoga national park lock 31, use etfe membrane on mechanical movable system that share the function from building.

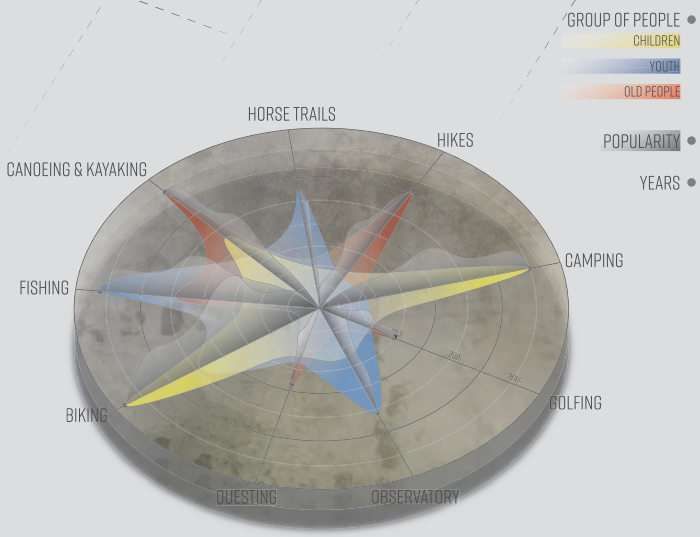


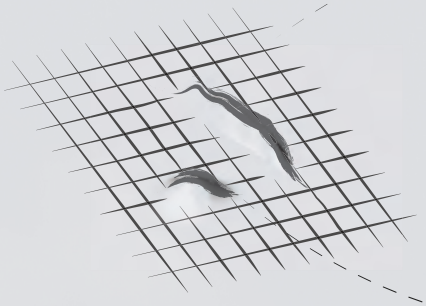
THE STORY OF CUYAHOGA VALLEY NATIONAL PARK (CVNP)

History runs deep in the valley, with over 12000 years of human occupation. From the unwritten stories of prehistoric peoples to the environmental disasters and comebacks of the 20th century, humans have left an impact on the valley. Here along the Cuyahoga River, humans have used, shaped, and been shaped by the landscape. Culture and nature interplay here, with each having its impact on the other.



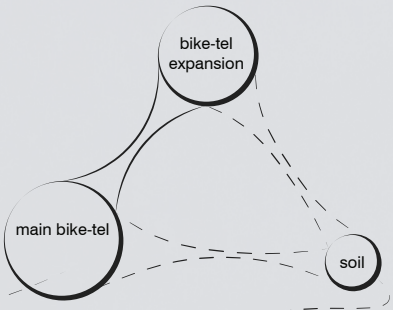


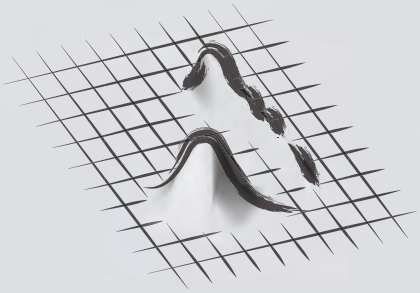




Step one

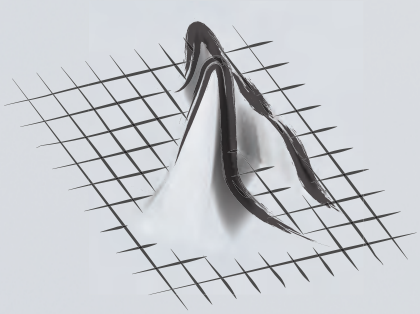
two foundations are built on each side of docking, they are starting to extrude and merge.





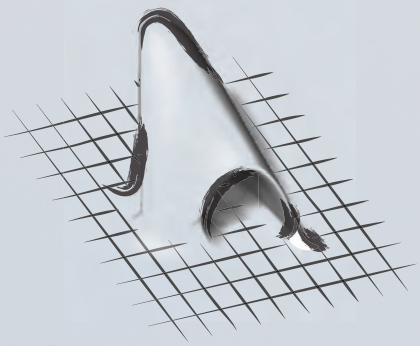
Step two

The foundations start to changing the shape and form, the program become the main bike-tel and expansion.



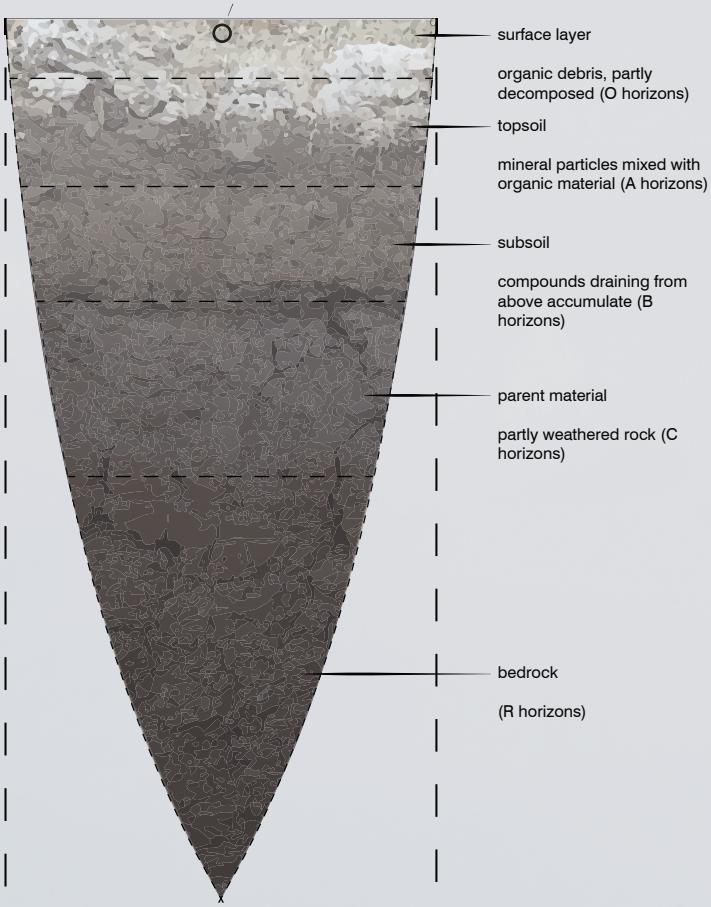
step three

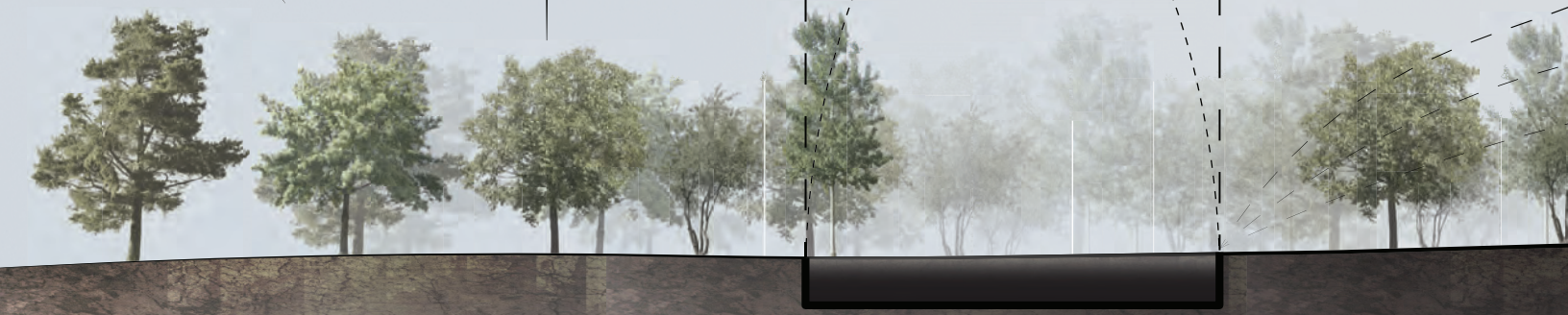
The foundations start to changing the shape and form, the program become the main bike-tel and expansion.

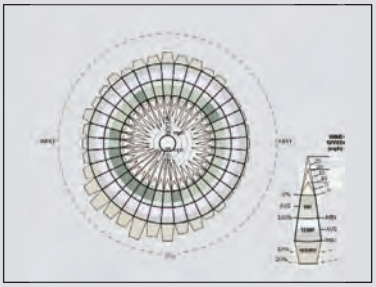


step four

Two shapes finally merged into one form, it creates a tunnel under the cover, the tunnel creates some unique experiences for people who pass-through, such as wind, shadow, echo, etc.

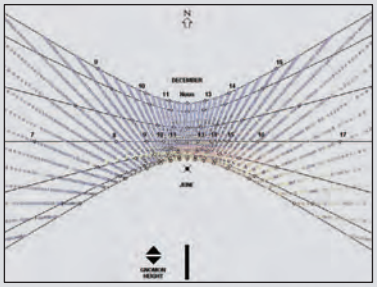






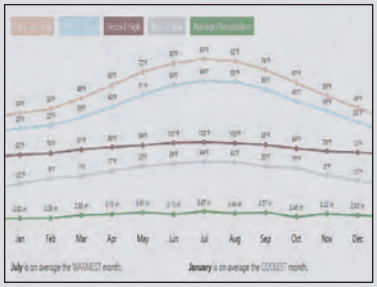
Wind direction

During summer warm wind from north and south.
During winter cold wind most from southwest and wind speed are higher than summer wind.



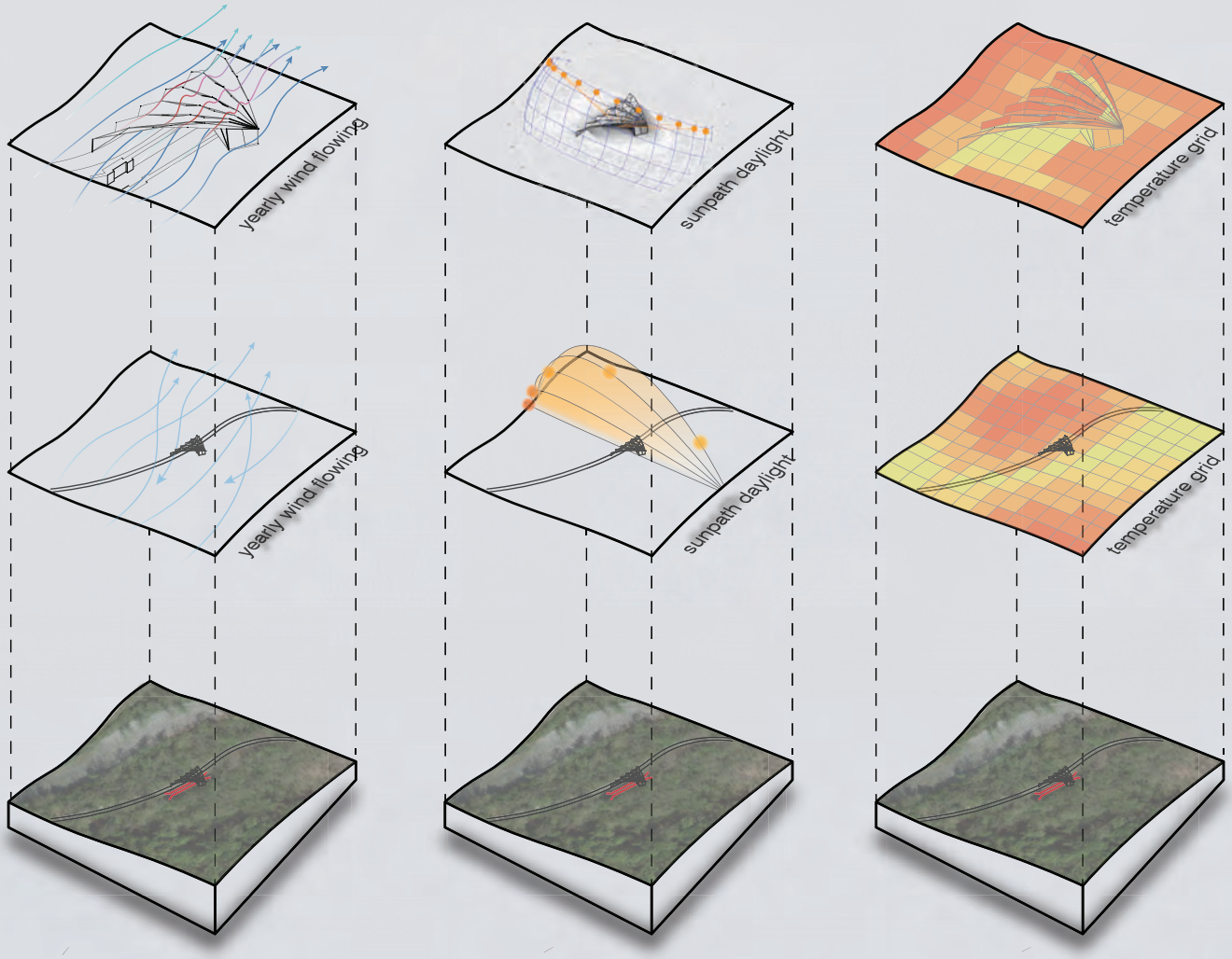
Solar

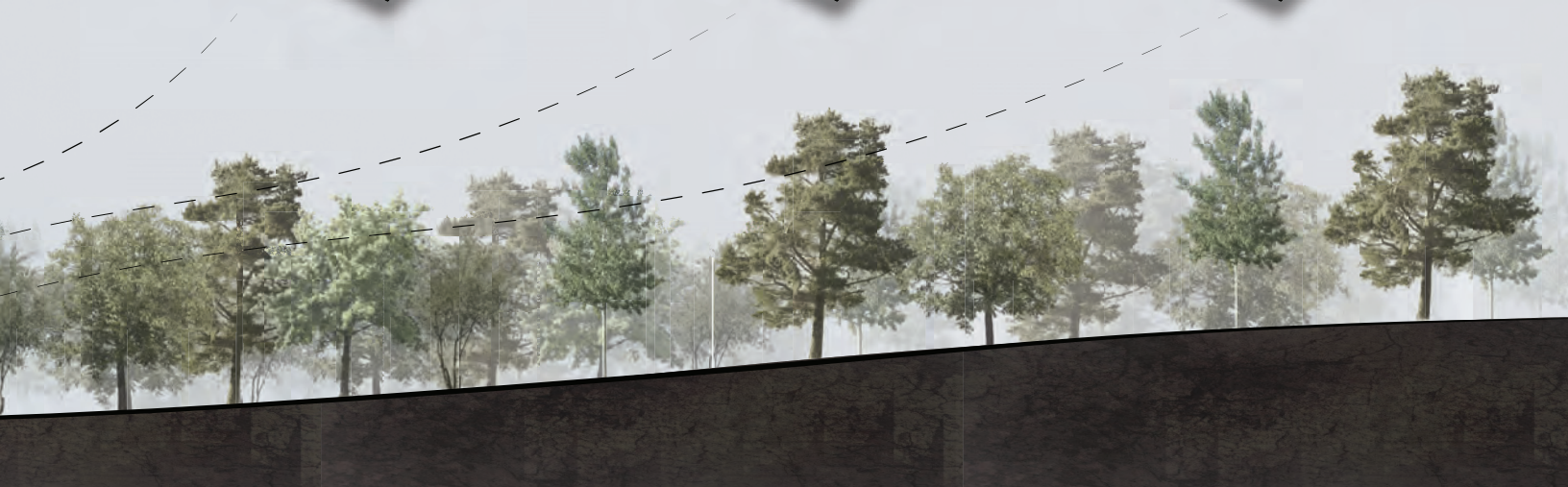
According to the sun light and shading data that during summer this site has enough solar during the day, Potential solar panel setup.



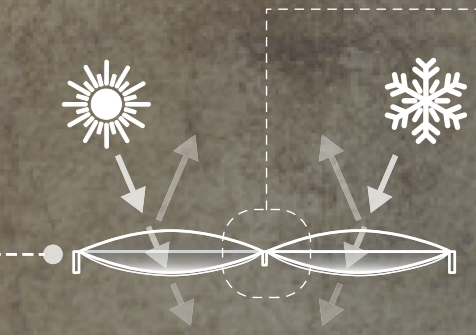
Weather

According to the weather data table that highest temp during July, the yearly precipitation does not have obviously changed. (Average: 3 inches)

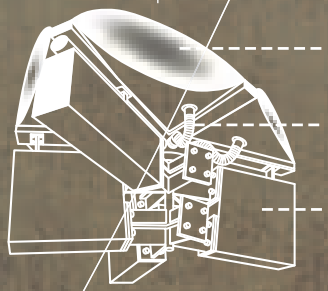





WATER COLLECT FROM RAINING AND USE
FOR DAILY COOKING, DRINKING, SHAWER.
EVEN CAN STORAGE FOR FUTURE USE.



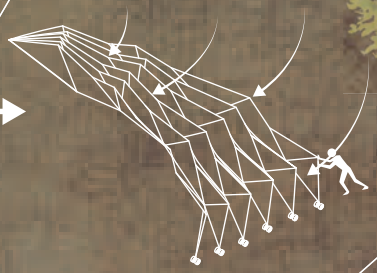
THEMAL PROTECTION FOR SUMMER AND WINTER CASE. ETFE MEMBRANE CAN KEEP INTERIOR WARM IN WINTER AND COLD IN SUMMER.



THE MECHANICAL CONNECTION OF ETFE MEMBRANE. IT CANTAINS AIR PIPE, MULLIONS, ETFE PILLOW, GALVANIZED STEEL NODE AND END PLAE.



BIKE-TEL WINGS CAN FOLD AND SHIFT TO DIFFERENT DIRECTIONS. CONSIDER ABOUT WILD ENVIRONMENT IT MOVING BY MANPOWER.

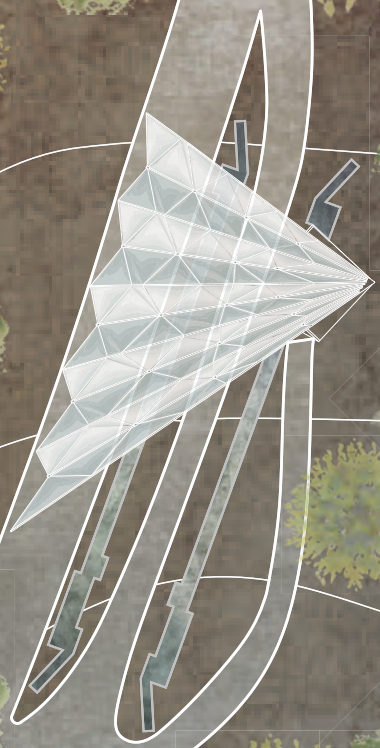


BIKE-TEL WINGS ROTATE FROM END NODE AND USE MANPOWER PUSH OR DRAG FORM WHEEL PART, THE MECHANICAL STRUCTURAL SYSTEM USE LIGHT GALVANIZED STEEL.



WATER COLLECT FROM RAINING AND USE FOR DAILY COOKING, DRINKING, SHAWER. EVEN CAN STORAGE FOR FUTURE USE.











OMNIPOTENT

"It may be that our role on this planet is not to worship God, but to create him." – Arthur C. Clarke

Mankind doesn't respond to directives, but fear is ubiquitous in its effects on people; and it is a faith in overwhelming supremacy that freezes a spectator in awe, or forces them to run in the opposite direction.

Through the divine, monumental appearance of this omnipotent entity, mankind will be able to reflect on its mistakes; and through the passage of time its meaning will shift from a tectonic entity to a static memorial of our greatest, fatal mistakes.

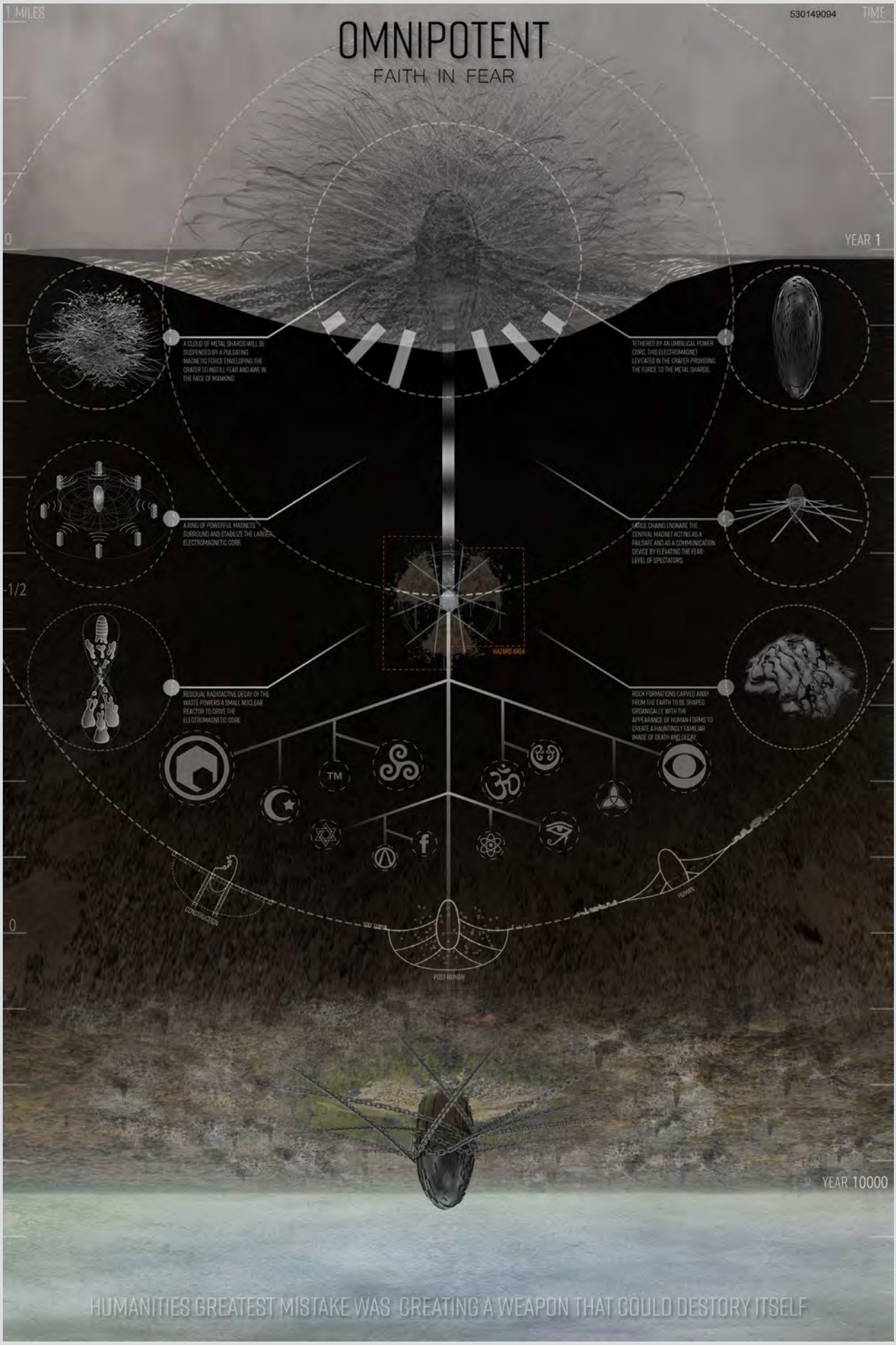
TEAM MEMBERS

YUNYAO JIANG

STEVEN TOUCHETTE

JACK RYAN

STEVEN BEGG


1 MILES
530149094
TIME
OMNIPOTENT
FAITH IN FEAR
0
YEAR 1
A CLOUD OF METAL SHARDS WILL BE SUSPENDED BY A PULSATING MAGNETIC FORCE ENVELOPING THE CRATER TO INSTILL FEAR AND AWE IN THE FACE OF MANKIND.
TETHERED BY AN UMBILICAL POWER CORD, THIS ELECTROMAGNET LEVITATES IN THE CRATER PROVIDING THE FORCE TO THE METAL SHARDS.
A RING OF POWERFUL MAGNETS SURROUND AND STABILIZE THE LARGER ELECTROMAGNETIC CORE.
LARGE CHAINS ENSNARE THE CENTRAL MAGNET ACTING AS A FAILSAFE AND AS A COMMUNICATION DEVICE BY ELEVATING THE FEAR LEVEL OF SPECTATORS.
-1/2
HAZARD AREA
RESIDUAL RADIOACTIVE DECAY OF THE WASTE POWERS A SMALL NUCLEAR REACTOR TO DRIVE THE ELECTROMAGNETIC CORE.
ROCK FORMATIONS CARVED AWAY FROM THE EARTH TO BE SHAPED ORGANICALLY, WITH THE APPEARANCE OF HUMAN FORMS TO CREATE A HAUNTINGLY FAMILIAR IMAGE OF DEATH AND DECAY.
TM
CONSTRUCTION
HUMAN
0
POST-HUMAN
YEAR 10000
HUMANITIES GREATEST MISTAKE WAS CREATING A WEAPON THAT COULD DESTORY ITSELF

POST CASTE

Social divisions have long plagued the world, separating the people into classes. These groups treat each other with contempt and inhibit their economic and social development.

To break this cycle, people need to share common spaces. This interaction creates social awareness and interpersonal relationships that will tear down the divisions of the past.

The opportunity for personal development reflects on the opportunity of the community to advance in tandem. By allowing for economic growth over time, the initial barrier to occupancy is lifted

When people view each other as equals, the world will be able to progress.

TEAM MEMBERS

YUNYAO JIANG

STEVEN TOUCHETTE

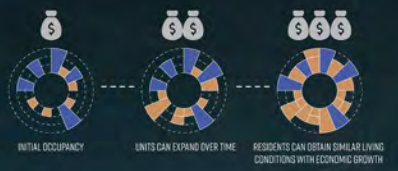
POST CASTE



WHAT IS TRUE COMMUNITY EQUALITY?

-THE BUILDING'S STRUCTURAL FRAMEWORK CREATES A VISION OF THE FUTURE, SHOWING PEOPLE THEIR POTENTIAL ECONOMIC AND SOCIAL DEVELOPMENT. THIS ENCOURAGES PEOPLE TO GET INVOLVED IN THE COMMUNITY SINCE IT'S ADVANCEMENT WILL RUN PARALLEL TO THEIR OWN.

-IN ORDER TO CREATE A POSITIVE LIFESTYLE MODEL, THE SEPARATION OF CLASS AND INCOME MUST BE REALIZED. SIMPLY LIVING UNDER ONE ROOF WILL NOT SUFFICE. CONCENTRATED PUBLIC INTERACTION BETWEEN ONCE SEPARATED ECONOMIC GROUPS ENHANCES COMMUNITY STRENGTH. BY PROVIDING A CENTRAL COMMUNITY SPACE IN EVERY RESIDENTIAL NODE, NEIGHBORHOOD AWARENESS CAN HELP ALLEVIATE THE IGNORANCE OF ONE CLASS'S OPINION OF ANOTHER.



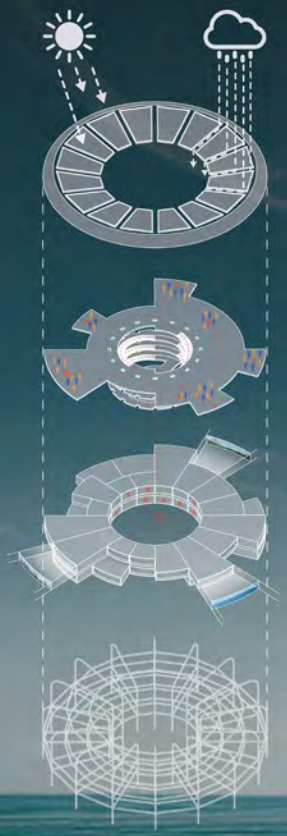
-PREPARED FOR SOCIAL AND ECONOMIC EXPANSION

THE STRUCTURE OF THE RESIDENTIAL NODE ALLOWS RESIDENTS TO EXPAND THEIR LIVING SPACE WHEN IT IS ECONOMICALLY FEASIBLE FOR THEM. THIS PUTS ALL RESIDENTS ON A LEVEL PLANE OF OPPORTUNITY FOR A SUCCESSFUL FUTURE.



-SOCIAL INCLUSION

THE RADIAL NATURE OF THE HOUSING STRUCTURES ALLOW FOR A CENTRAL COMMON SPACE SHARED BY ALL SOCIAL GROUPS.

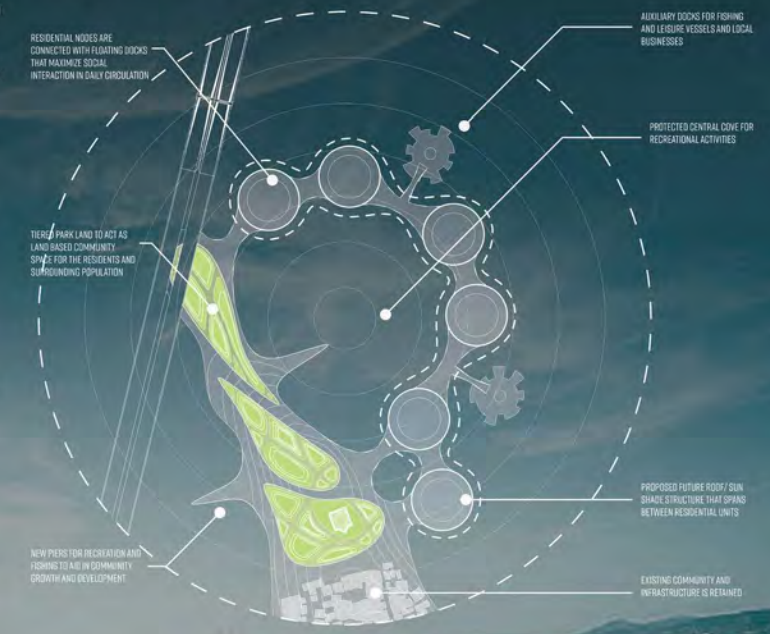


SUN SHADING REDUCES SOLAR LOAD WHILE SOLAR PANELS HARNESS NATURAL ENERGY SOURCE. RAINWATER COLLECTION BETWEEN PANELS OFFSETS CITY WATER USAGE

PUBLIC SPACE IS CONTAINED IN THE CENTRAL COURTYARD AS WELL AS ABOVE AND BELOW THE RESIDENTIAL UNITS

RESIDENTIAL UNITS ARE ARRAYED TO MAXIMIZE VIEWS AND MINIMIZE SOCIAL EXCLUSION

ENTIRE RESIDENTIAL NODE BASED ON TUBE FRAME THAT ALLOWS FOR EXPANSION OF UNITS OVER TIME, ALLOWING FOR ECONOMIC GROWTH OF RESIDENTS





IVY

The house is more than a structure, it is the safety and comfort of the human experience. It is the base of community and culture. By allowing a larger population to have a stable and complete home, it allows for a collective increase in society's ability to grow and develop.

By utilizing the under appreciated and left over spaces of cities, the intervention grows down from the surrounding buildings to occupy and populate these areas. Hubs are placed on these adjacent structures and supply the homes with all utilities, while all waste is removed from the same umbilical cord.

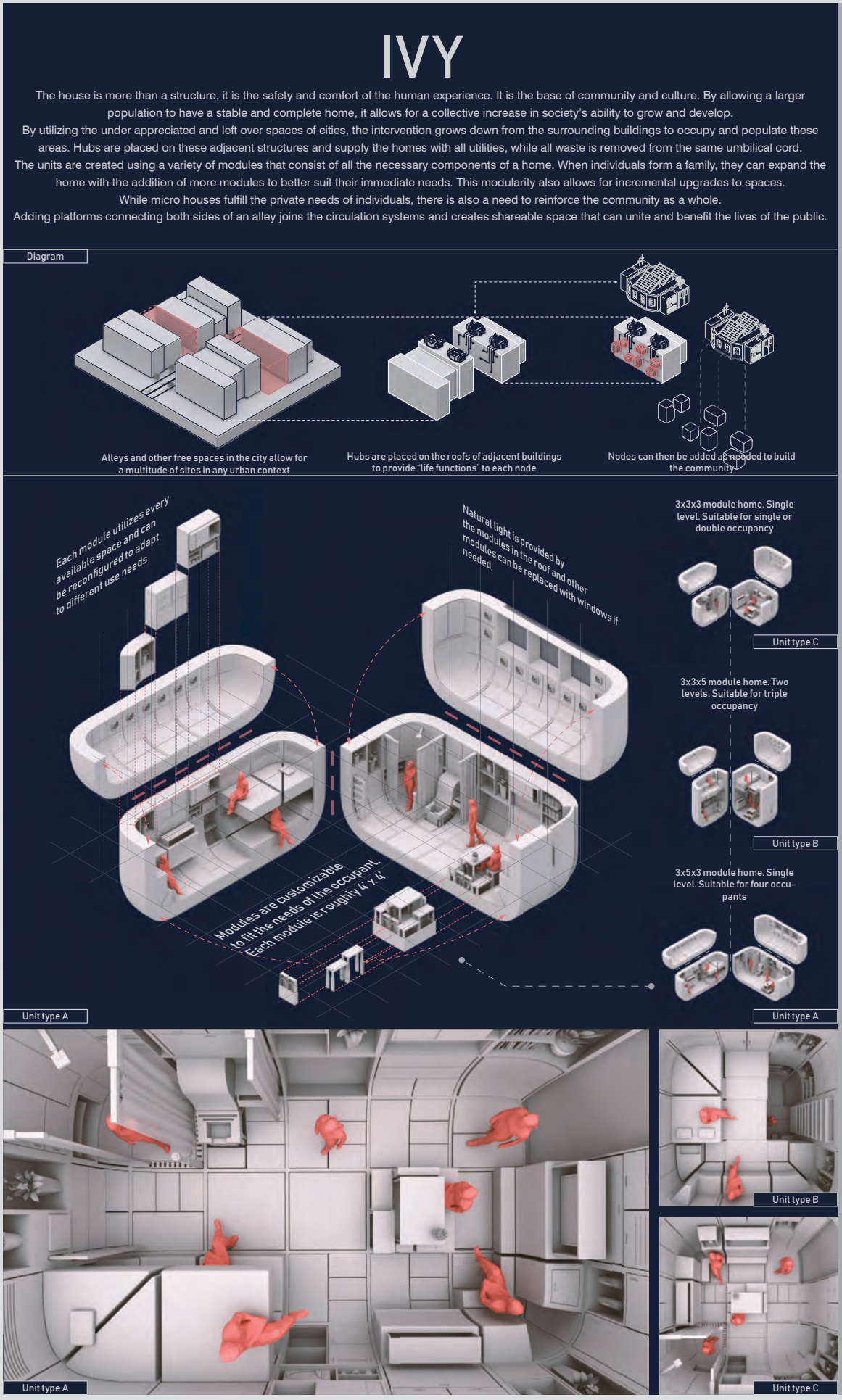
The units are created using a variety of modules that consist of all the necessary components of a home. When individuals form a family, they can expand the home with the addition of more modules to better suit their immediate needs. This modularity also allows for incremental upgrades to spaces.

While micro houses fulfill the private needs of individuals, there is also a need to reinforce the community as a whole. Adding platforms connecting both sides of an alley joins the circulation systems and creates shareable space that can unite and benefit the lives of the public.

TEAM MEMBERS

YUNYAO JIANG

STEVEN TOUCHETTE



FIELD OF VISION

The Tower of Babel is a story about how the people of the world worked together to accomplish something greater than themselves. Over the years since it has faded into history, many people have lost sight of this dream. We overlook our lessons learned in the past to blindly pursue individual advancement. What if humanity could encounter a vision of the past and see the unity that helped create early marvels.

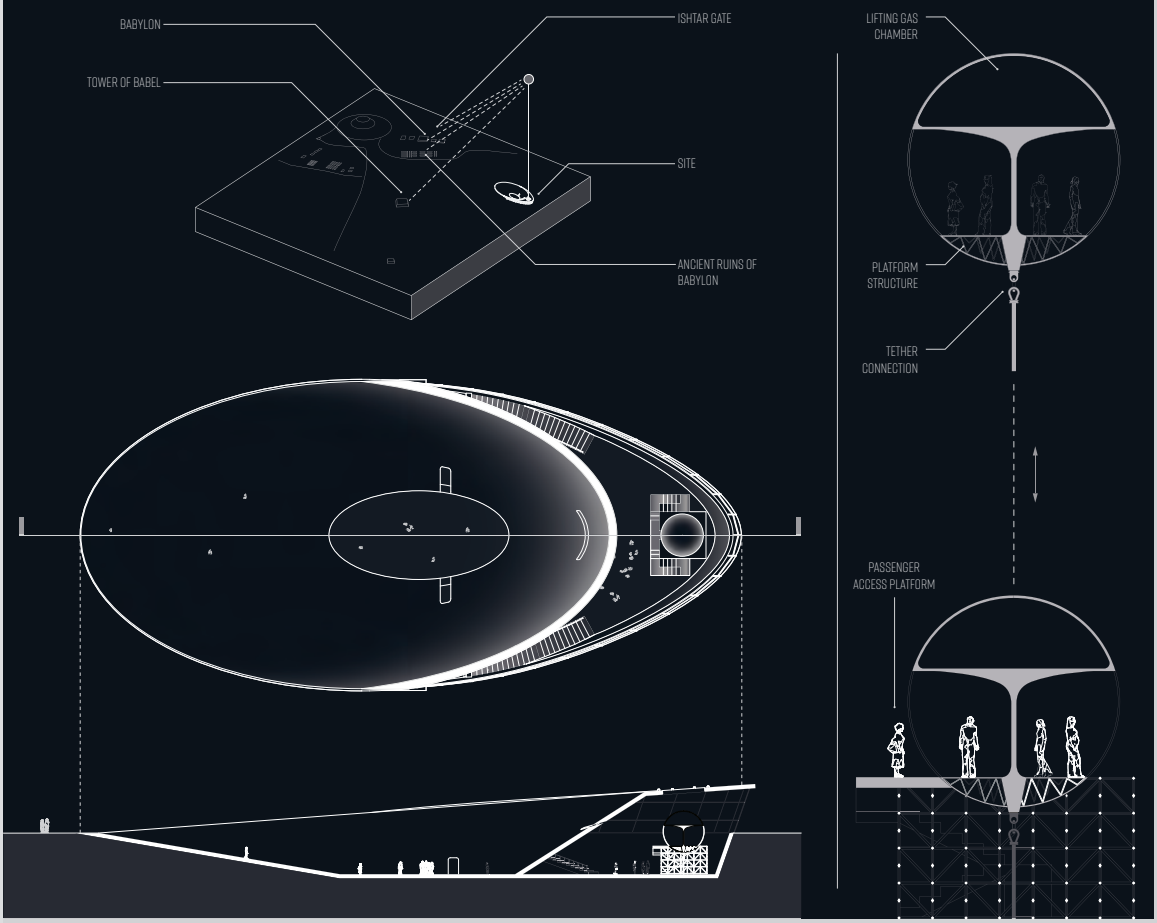
Could there be a landmark that evokes a memory of the past while inspiring the future.

The site is marked by a slight ridge that indicates the courtyard recessed into the ground. Lights are placed at the base of the simulated tower, shining up towards the sky. This leaves only a clear focused view up towards the sphere. This echoes the driving force behind the original tower. On each side of this space are passageways to the cultural center at the base of the tower. The tower consists of an observation sphere that floats up into the sky to view the surrounding historical sites. The scale of the observation sphere was intentionally kept small to encourage interactions between the occupants about their shared experience.

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