



## PORTFOLIO

| Peizhe Fang

Stars in many corners of the world need an

umbrella,

which I am willing to be.



1 Dissolving Life and Death

For the olds  
Lack of burial space

2 Coexistence - in a planetary scale

For the young  
Green New Deal

3 Gissando Concert Hall

For the olds  
Lack of entertainment space

4 Customizing Modules for Community

For the young  
Demand more social activities and potential business investment

5 "Li" Library

For community with single function  
Residents need more public space for activities

Technology

Entertainment

Aesthetic

Psychology

Nature

Residence

Interpersonal Communication

Labour

Economic Revitalization

Public Space

Tradition

Reconstruction

Community



History

Urbanization

Population

## Dissolving Life and Death

Summer | **Karla Rothstein** | New York City

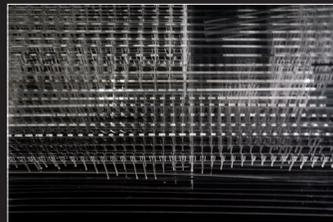
## Coexistence – in a planetary scale

Fall | **Phu Hoang** | Louisiana

## Glissando Concert Hall

Spring | **Steven Holl** & **Dimitra Tsachrelia** | Prague





Memorial Space | Daily Activities

**Above** | Living



**Blow** | Death

Funeral Space | Energy Conversion

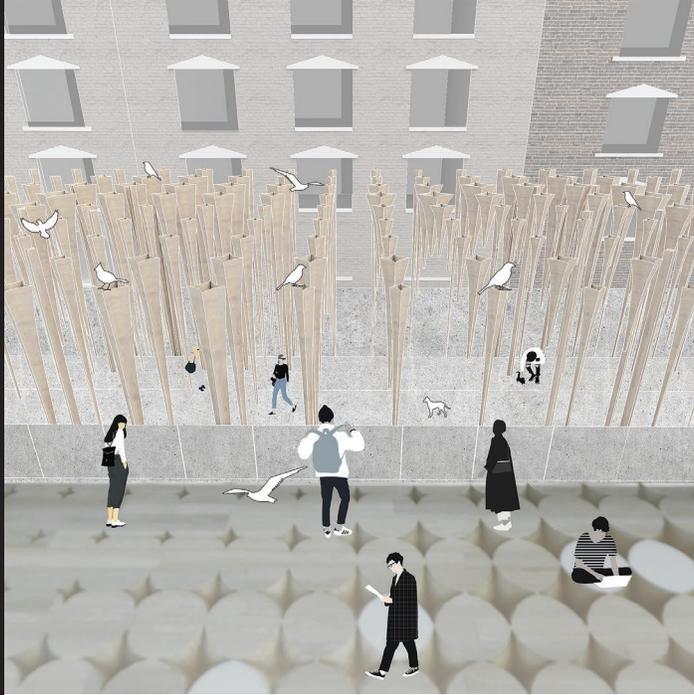
**Dissolving Life and Death**

Karla Rothstein Studio | Summer 2019 | partner: Wanlin

Above ground is mainly the facility design. Light analysis identified areas where the sun was dazzling and unusable on the site. Shelves with lighting facilities at the bottom are arranged in these areas. **These shelves can block the hot sunlight during the day, and the lights at the bottom of the night increase the safety and activity space of the community.**

Through the design of the shelf group, a large amount of arched space is generated, with meditation and mourning functions. All lighting facilities are connected to the underground reaction device. **The energy source of the emitted light is the biological energy of the died body of a loved one who has buried underground.** So it is a meaningful activity to miss the loved ones in these spaces.

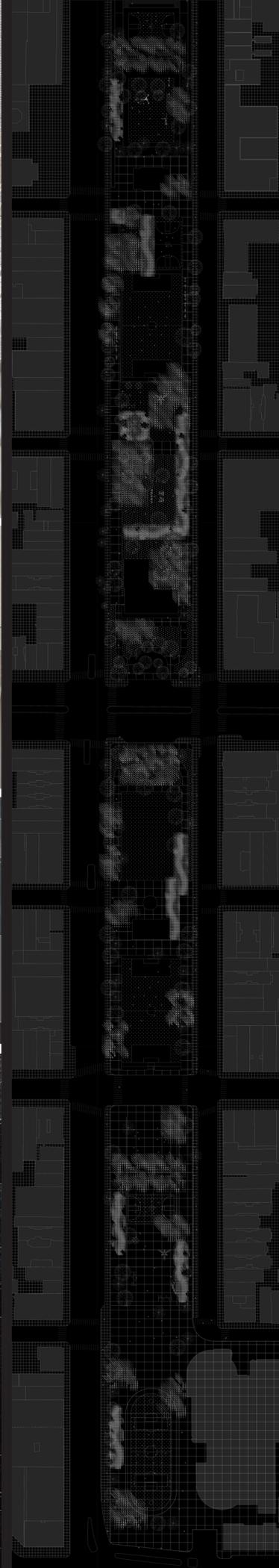
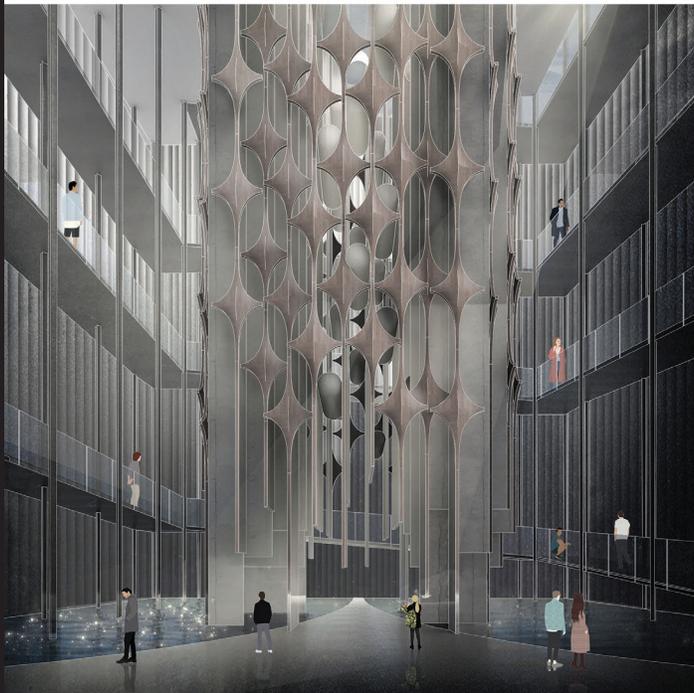
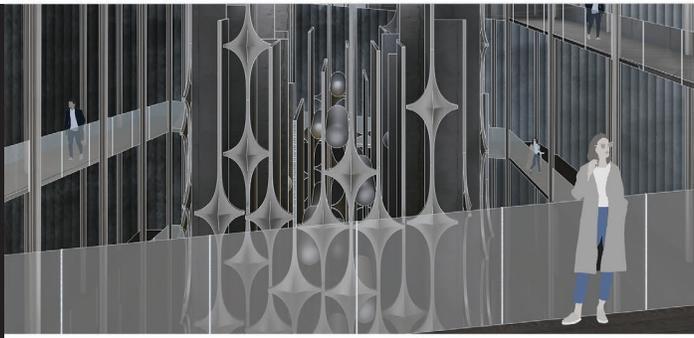
The underground part is a reaction nucleus. A very large number of capsule-shaped reaction vessels are inserted in the middle. According to current technology, **these containers can already transform a person's body into biogas and soil within a month or two. Biogas is used for luminous lighting and soil is used to increase the nutrition of a large number of trees on the substrate.** The general purpose is the last return of death to life. The funeral is held in the open space in the middle of the water at the bottom, and then sent to the bottom of the kernel, and the capsule-shaped reaction container is inserted on the inner wall of the reactor by the machine. The design of the inner wall of the reaction core adopts a solemn vertical unit, and the reflection under the water creates another world feeling.

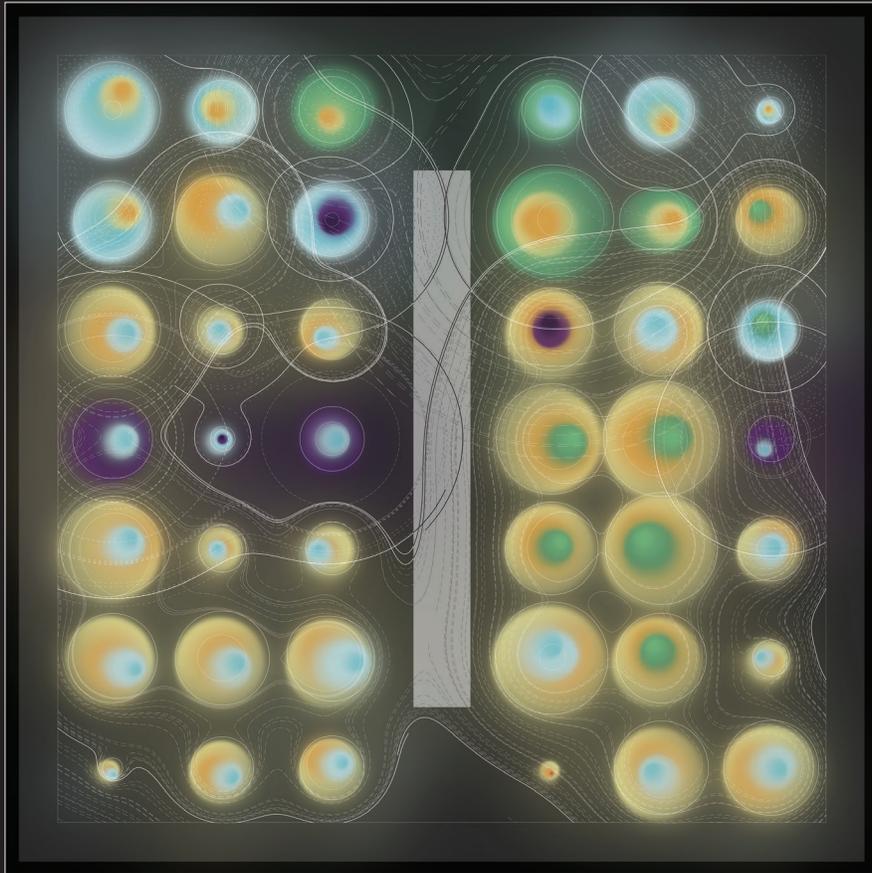


**Above** | Living



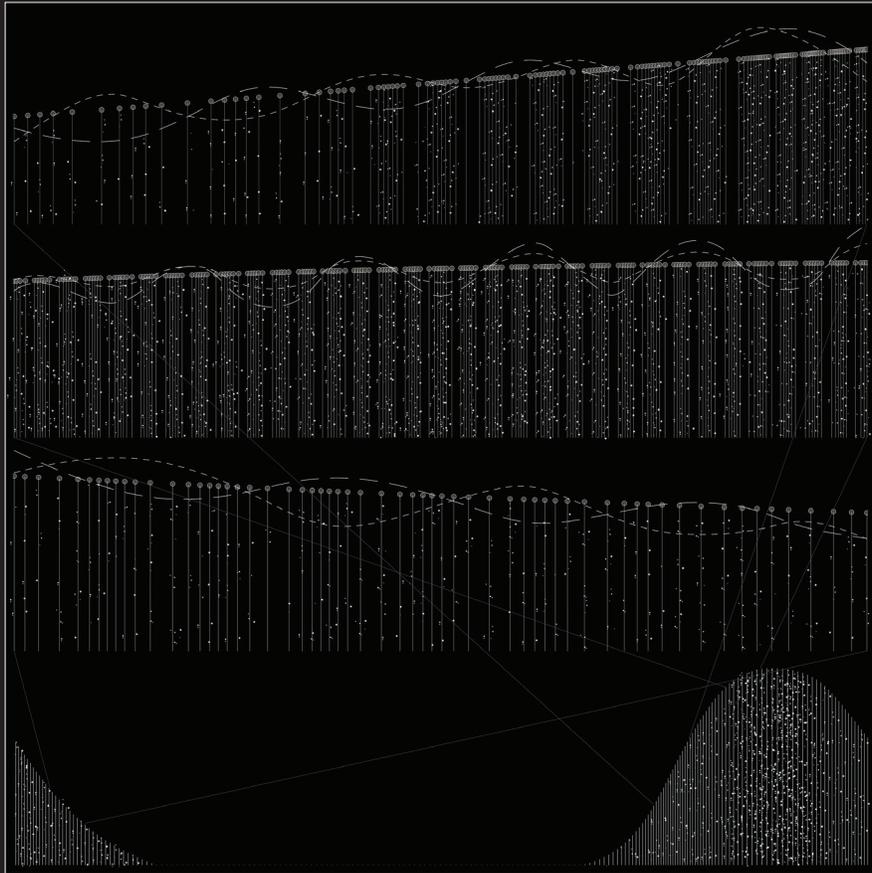
**Blow** | Death





**Sara D. Roosevelt Park** is a vibrant place of distinct activity and communication.

New tranquil spaces of death are introduced as **ripples** that softly reach into the ground of the existing site.



A range of apertures support an array of flora and fauna, from flowering vines to birds, bees and fireflies. Larger voids reveal glimpses into the underground experience, strengthening awareness of the **cycles of life**.

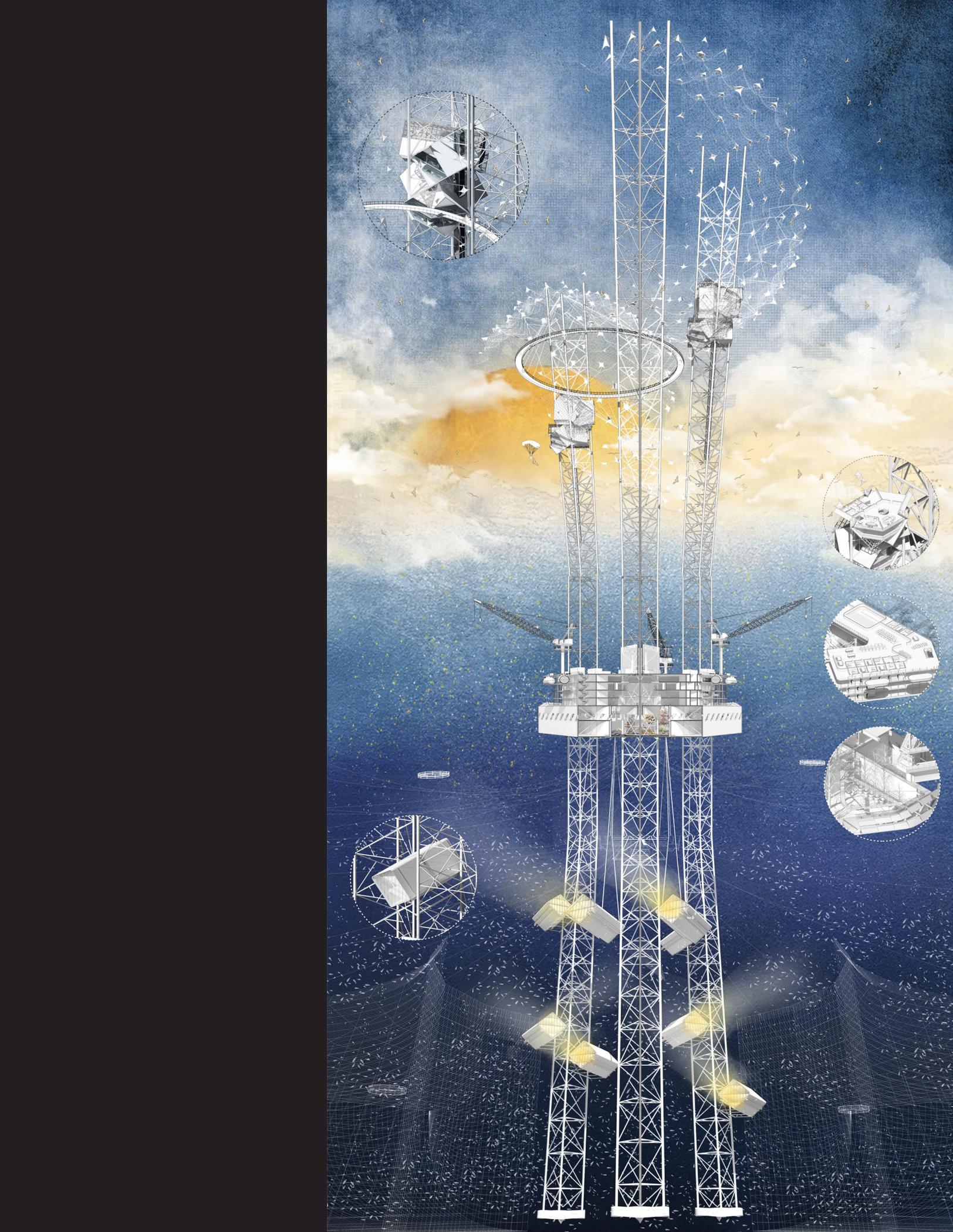
## Coexistence - in a planetary scale

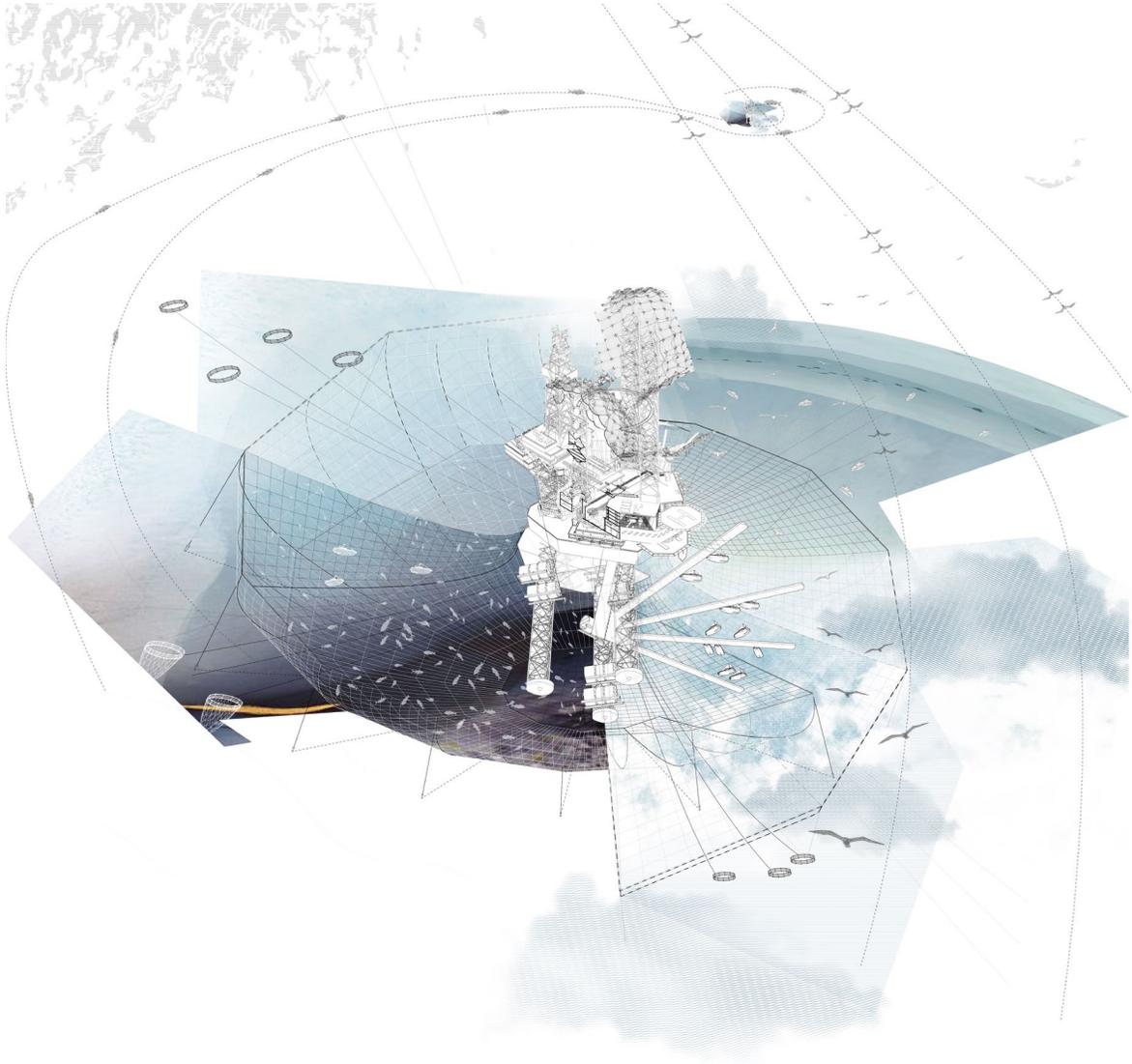
Phu Hoang Studio | Fall 2019 | partner: Haitong Chen

The expected effects of post peak oil: peak oil and sea level rises, results in a series of incidents such as Oil Rigs Desertion, and bio-habitat loss. There are four different programs designed for offshore, mid-seas, and high seas oil rigs.

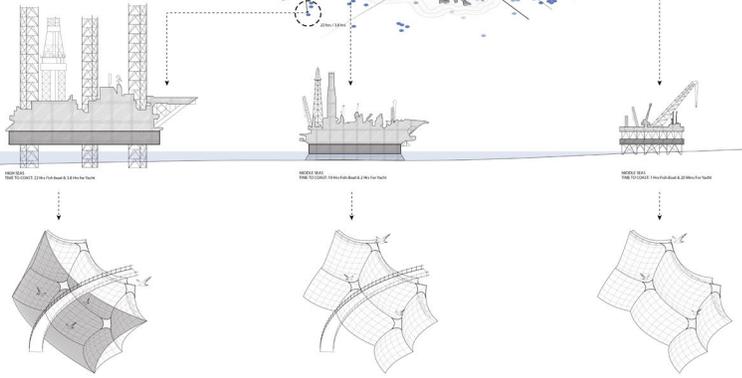
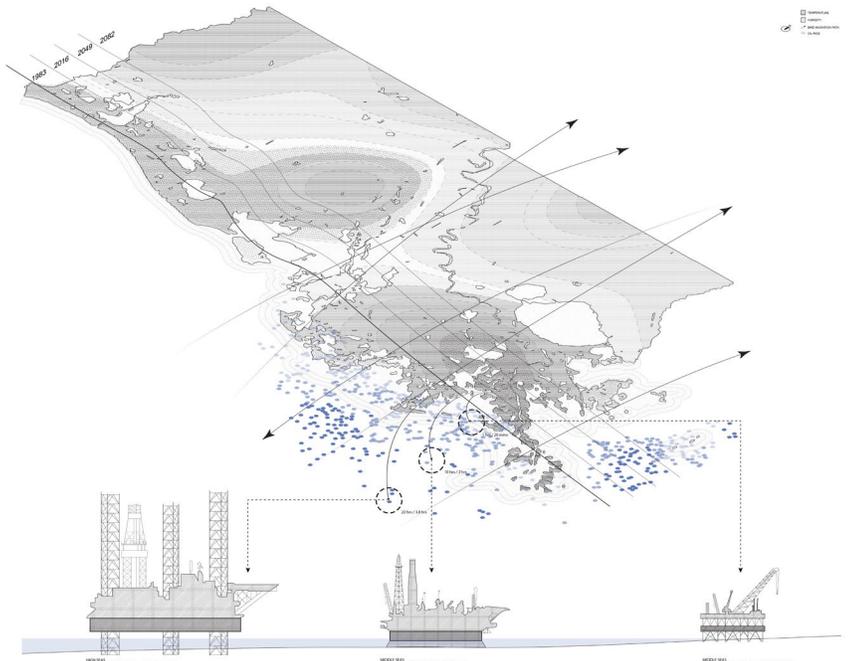
Our design focus on the deserted Oil Rig Networks, we transform the original rigs into vertical bio-habitats, which aims to exert instant response to the oil spill, offer shelter to different types of species, and create public recreational programs. The proposal can be designed into four different programs which adapts to three different types of oil rigs.



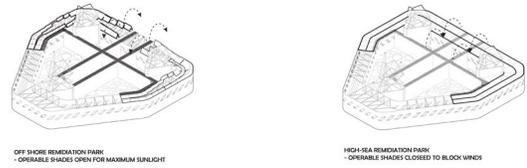




**Bird View  
&  
Fish View**



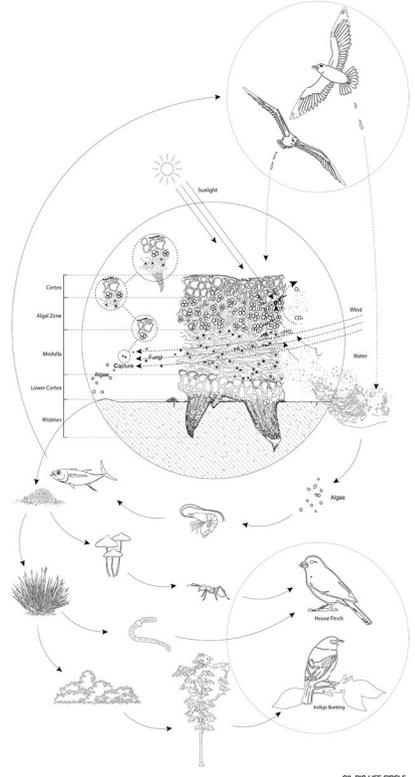
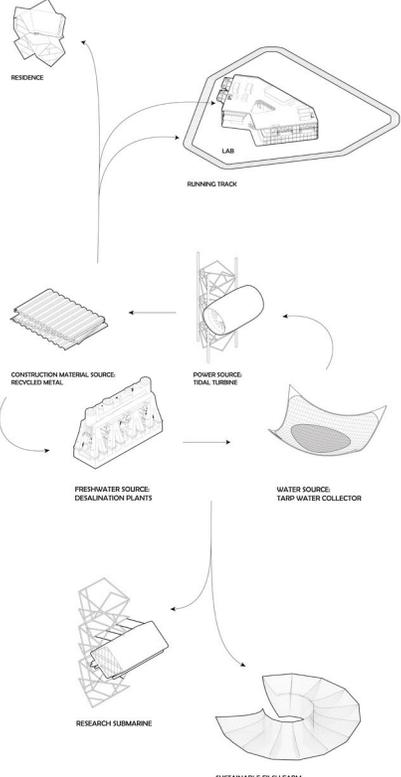
OFF SHORE ZOO AWAY - VOLUME ENGULGED FOR ZOO  
 MID-SEA RESEARCH AWAY - RAMP OPENED FOR RESEARCH ONLY  
 HIGH-SEA BIRD HABITAT - NETS AND DIAMOND SHAPE



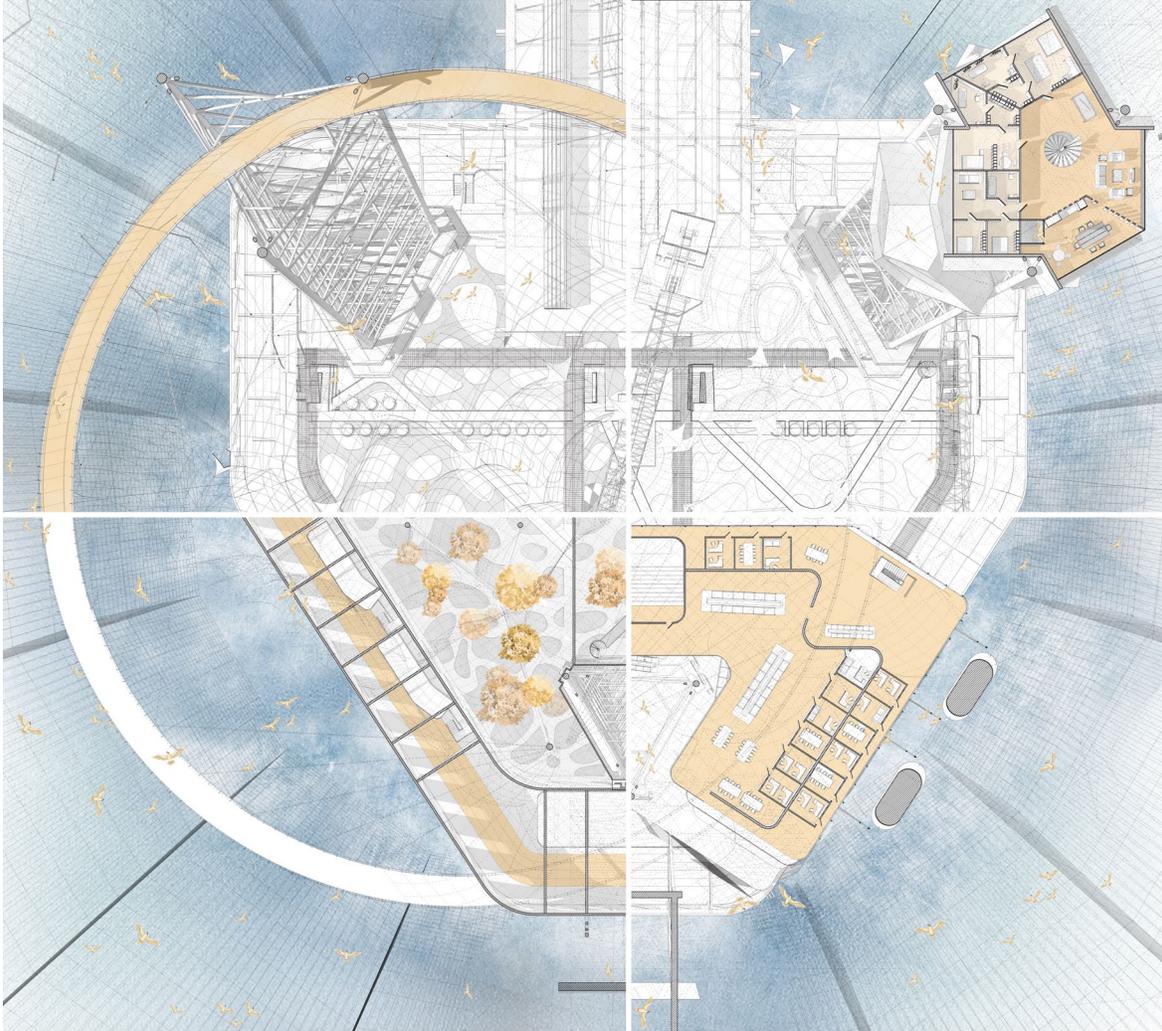
OFF SHORE REMEDIATION PARK - OPENABLE SHADES OPEN FOR MAXIMUM SUNLIGHT  
 HIGH-SEA REMEDIATION PARK - OPENABLE SHADES CLOSED TO BLOCK WINDS



OFFSHORE FISH FARM - LANDING DOCK TRANSFORMED AS A MARKET  
 HIGH-SEA FISH FARM - DECK TRANSFORMED AS FISH STORAGE FOR FRESH FISH SUPPLY

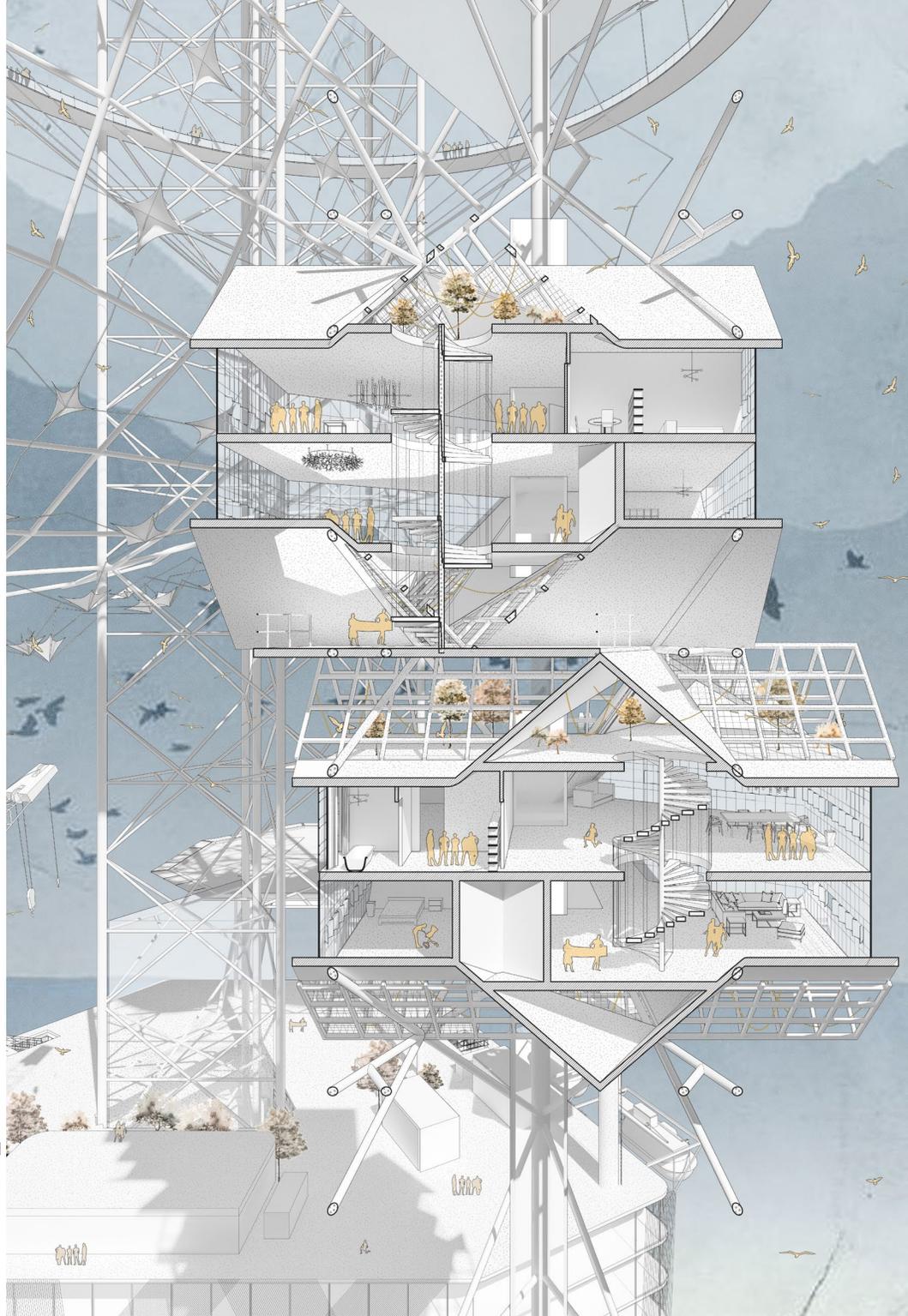


Our research questions are climate warming and sea level rise. In this environment, animals other than humans are also affected by sea level. This design can solve some of the problems faced by birds and fish. The professor asked me to imagine the perspective of fish and birds, so I drew a hybrid drawing combining the perspective of birds and fish.



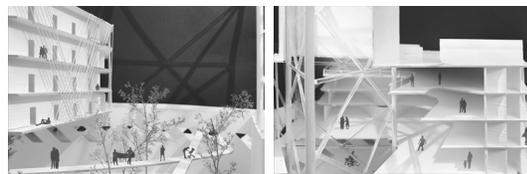
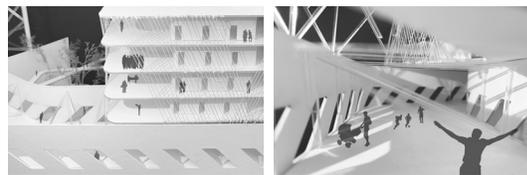
### Composite Plane

It contains the four main projects: Lucom Lab, Remediation Park, bird observation path, residence for scientists and fishermen. The cut height of the four items gradually increased counterclockwise, and the lower left corner was the lowest. All main or public spaces are marked in orange.



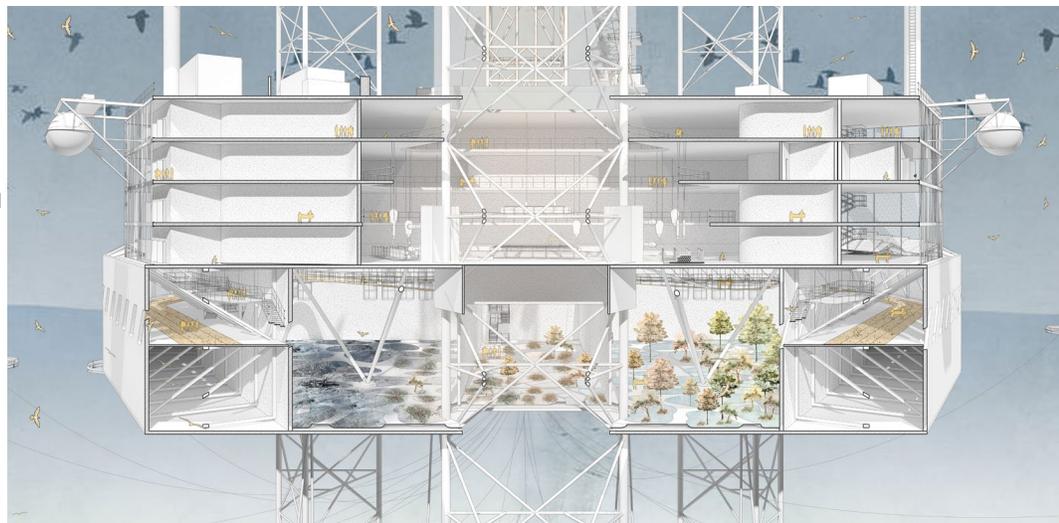
I found that the vertical structure on the oil rig can insert diamond-shaped blocks from three faces. So I designed this shape, which can be built in parts and then installed on the structure. After the construction is completed, it can be firmly stuck on the structure. Each volume is divided into **Four Levels**. The two spaces in the middle are suitable for human habitation. The upper and lower triangles are suitable for bird habitat. The two spaces can communicate with each other when necessary to meet the needs of research and treatment.

### Temporary Residence ■



### Remediation Park ■

This tank is used by oil rig to store oil. When this oil rig is abandoned, these oil residues are bound to become garbage. We choose plants with outstanding adaptability and decomposition ability, such as lichen, to treat oil pollution. After a long time of decomposition and species evolution, this tank will eventually become a small park.



## Glissando Concert Hall

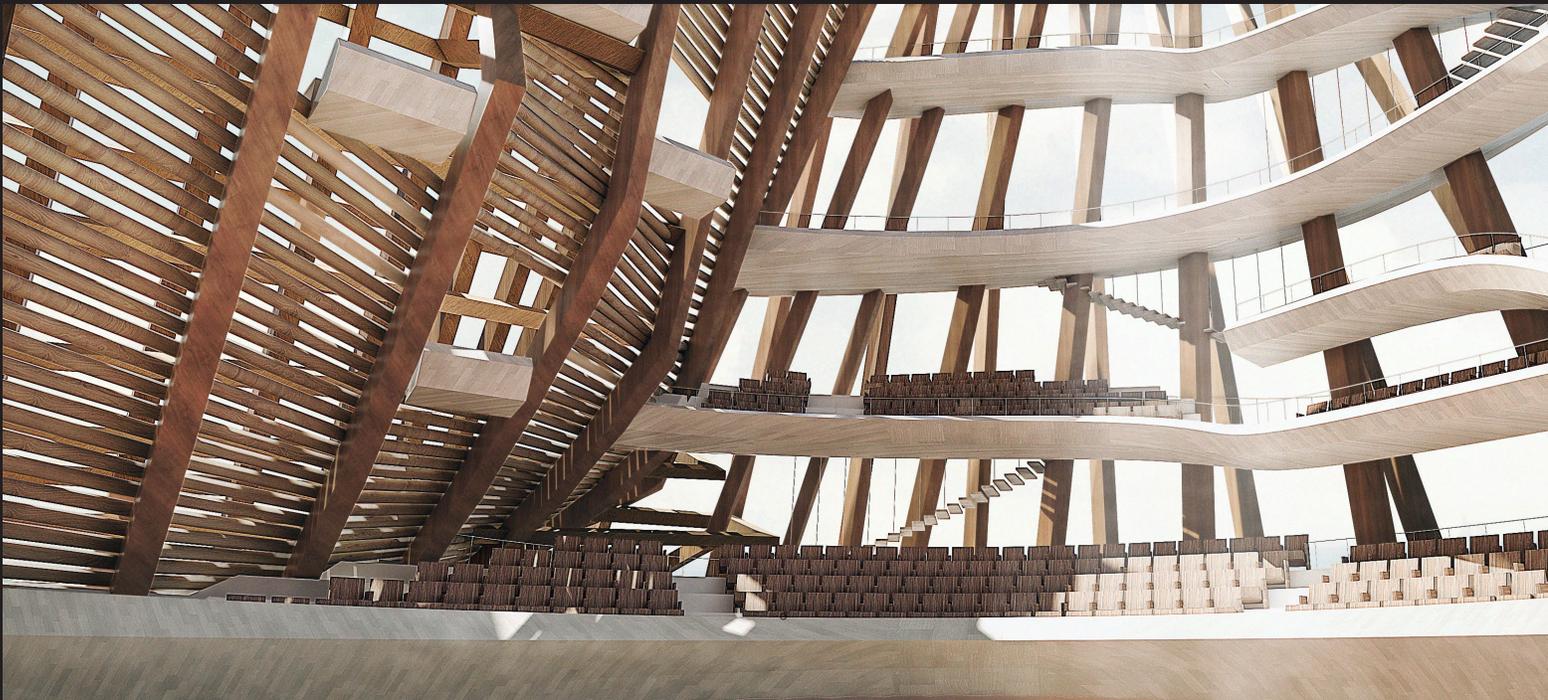
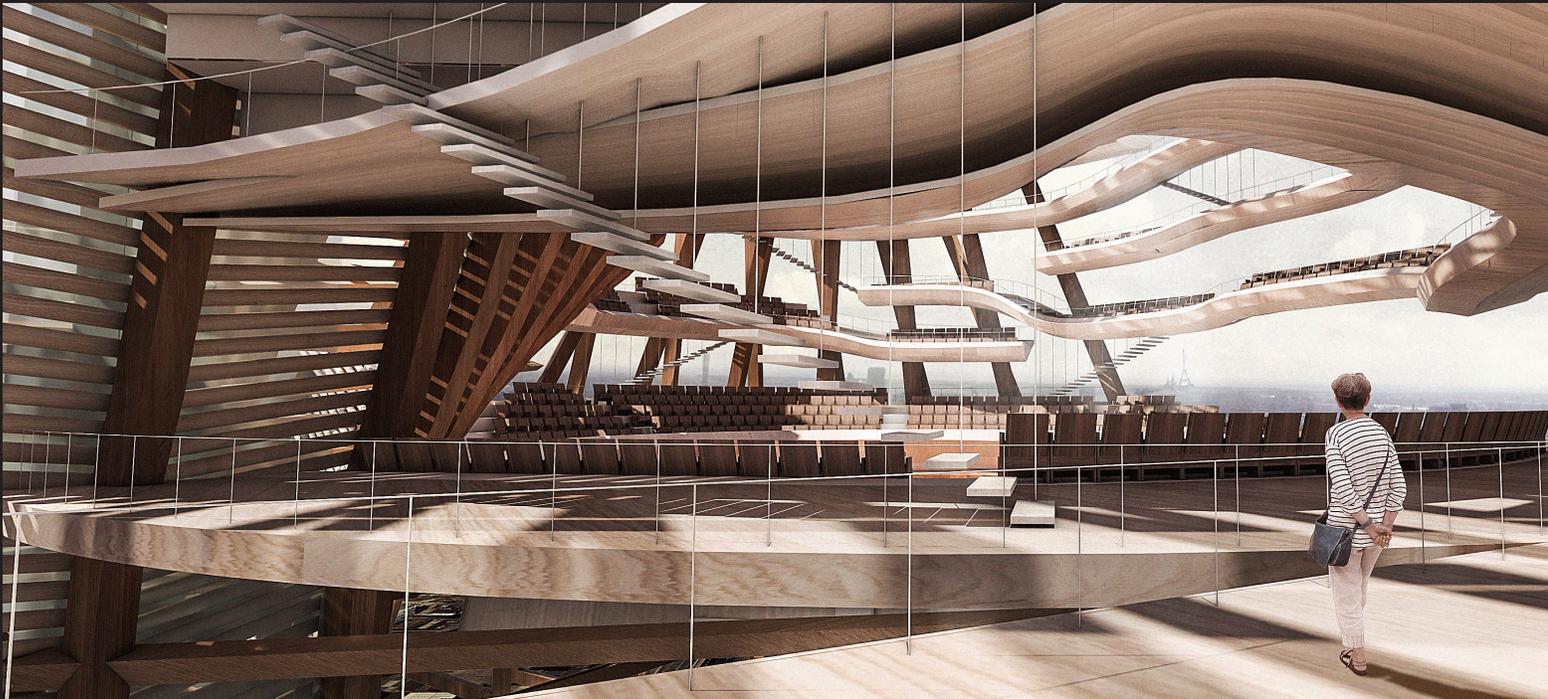
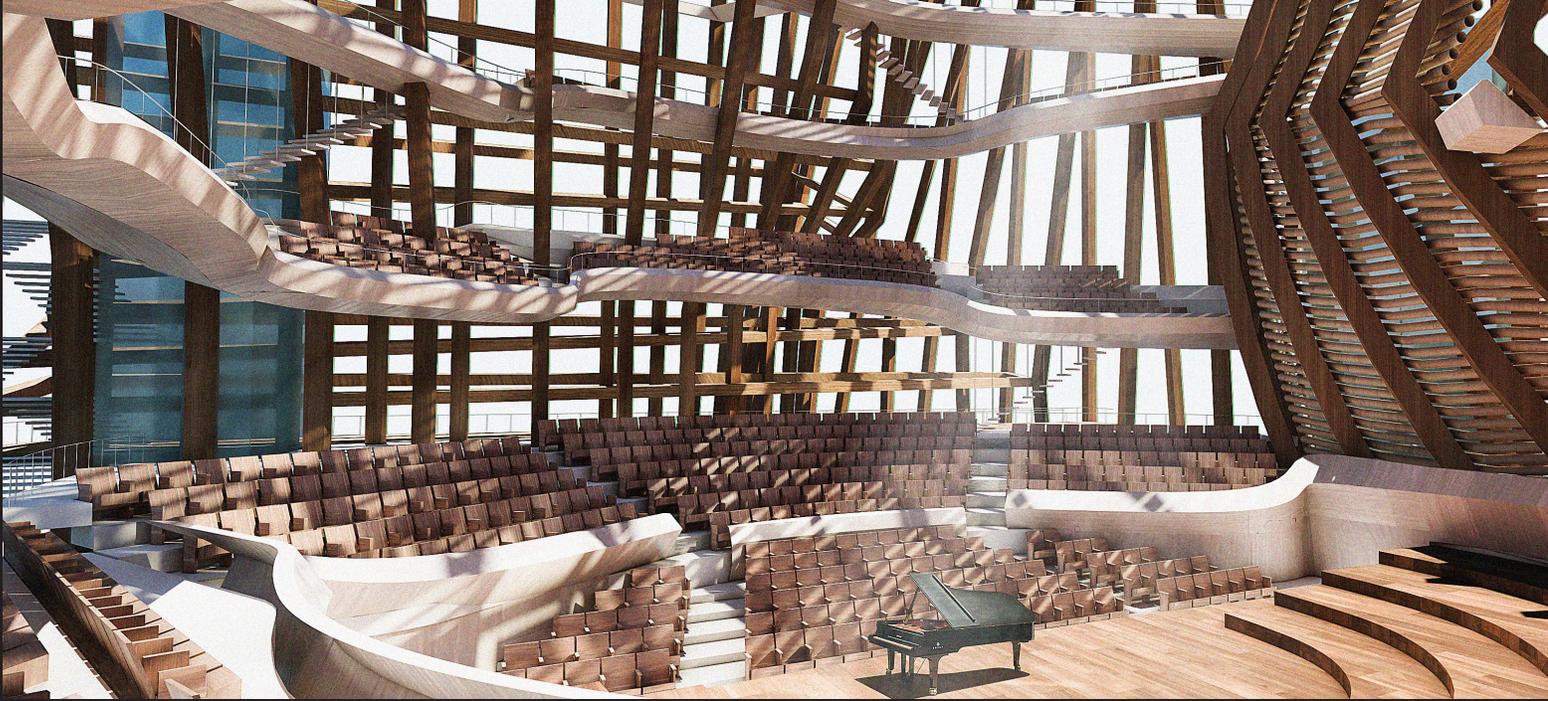
Steven Holl & Dimitra Tsachrelia Studio | Spring 2019 | partner:  
Lexi Wang

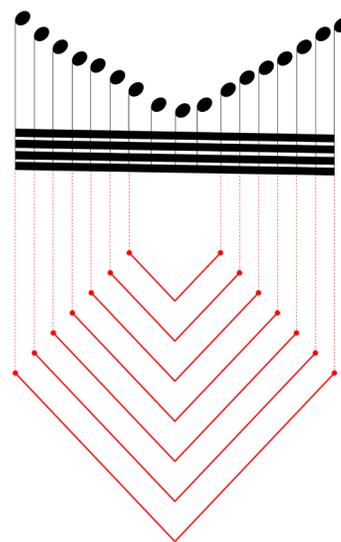
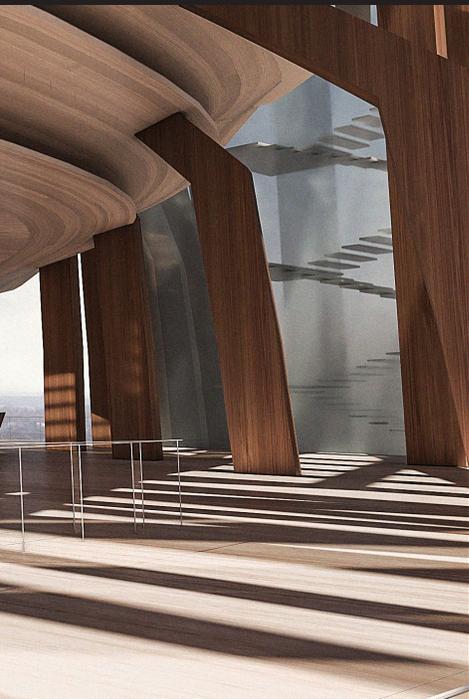
The design comes from the movement of linear glissando model and develops its potential of translation to structure, space, light and material.

With the hall open and suspended, the open-air concert hall becomes a sculptural attraction and provides for public spaces in the central Prague. The fluid balconies inherit the glissando element and combined into a four-layer interpenetrating auditorium. adapts to three different types of oil rigs.

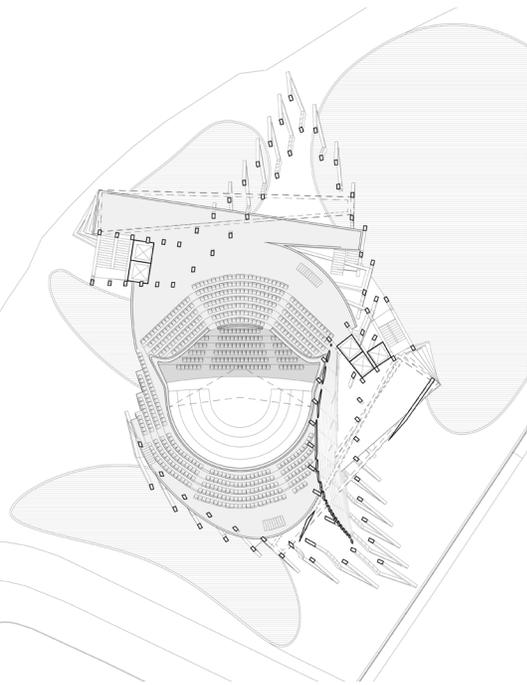




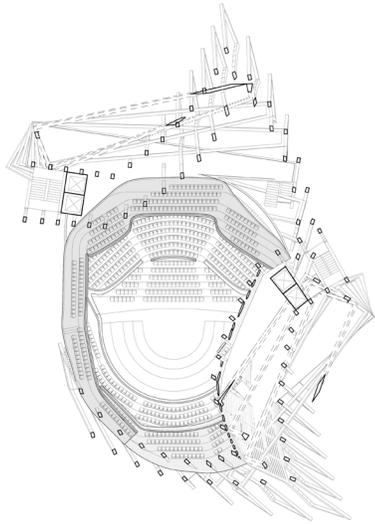




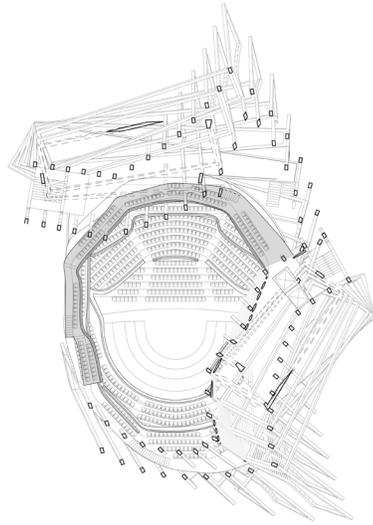
Glissando Model Diagram



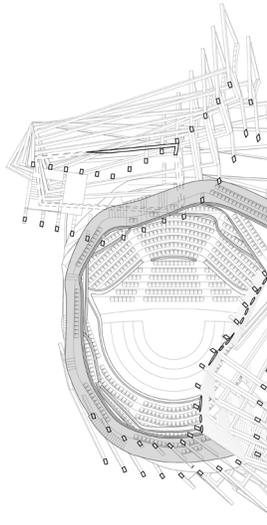
Hall Plan 1st Level ■



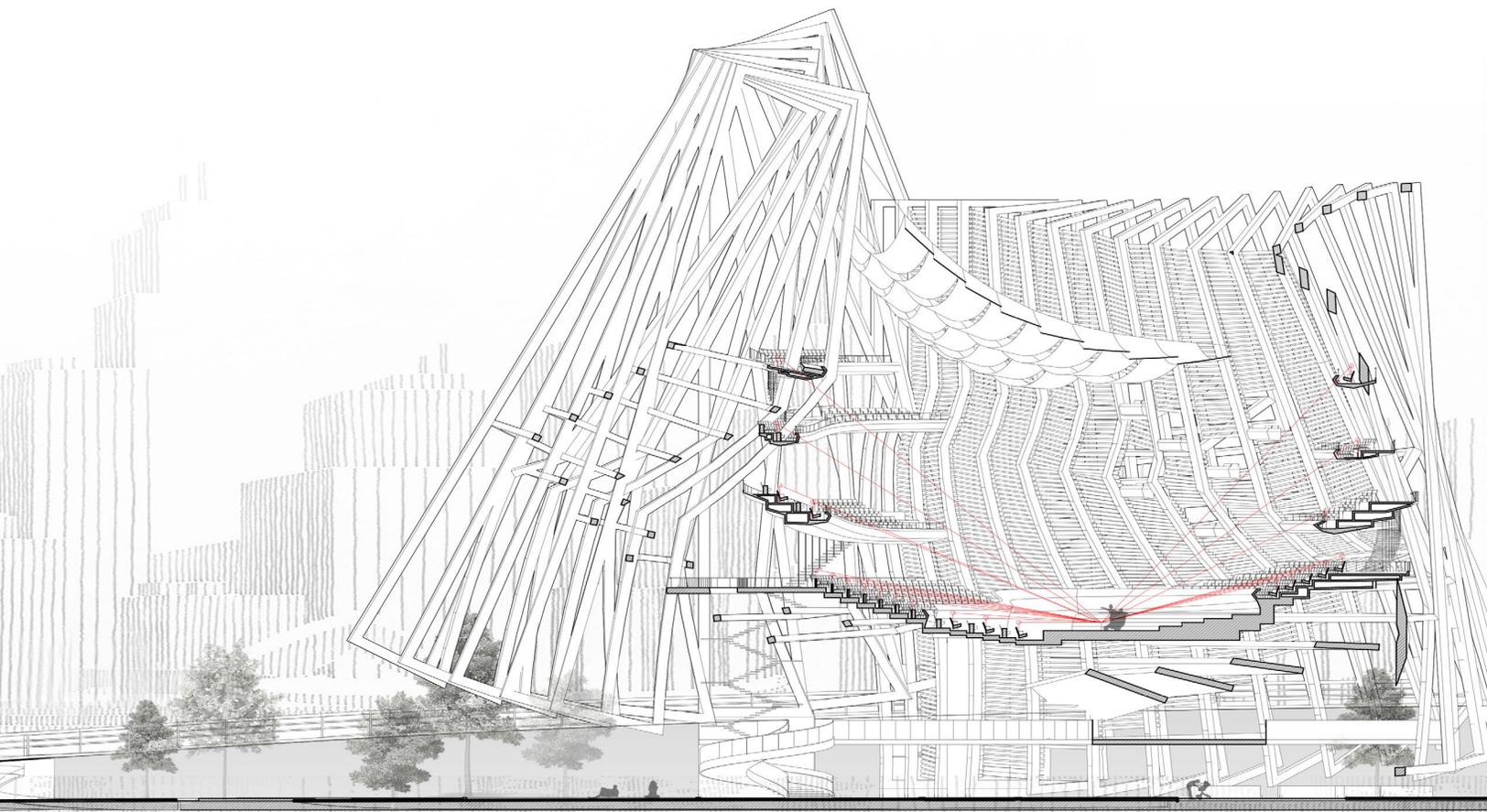
Hall Plan 2nd Level ■

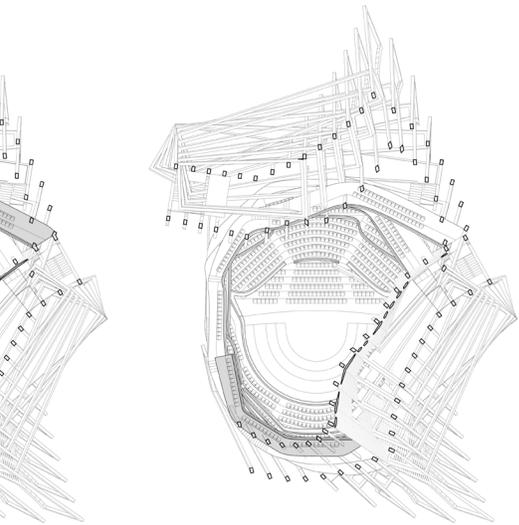


Hall Plan 3rd Level ■



Hall Plan 4th Level ■



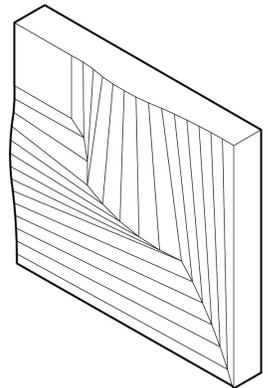


an 4th Level ▀

Hall Plan 5th Level ▀

**1 Volume with Flowing Surface |**

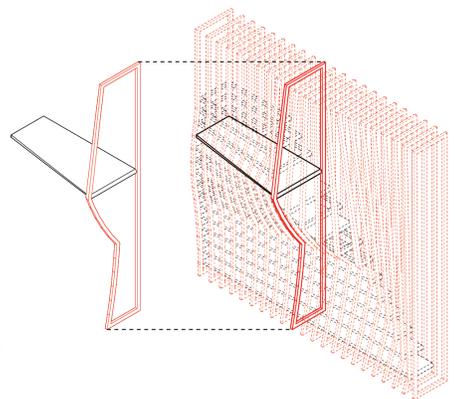
The 1st step is to use the little glissando model to mimic the movements of a piece of music and then stop there to use rhino to extrude a volume. The flowing surface of the volume can be changed according to different melodies.



**1**

**2 Involvement of Piano Structure |**

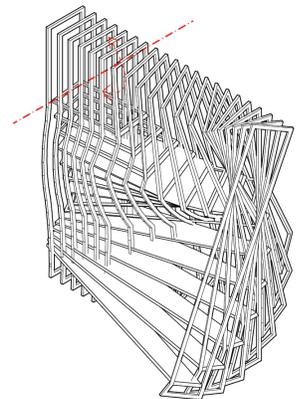
This melody is piano solo and full of glissando and melodies that similar to glissando. So I involve piano structure into the design. Every keys in piano have a linked piece to make movements to create sound. So I divided the volume into several vertical and horizontal pieces and linked them one by one as pairs to move together.



**2**

**3 Typology 1st |**

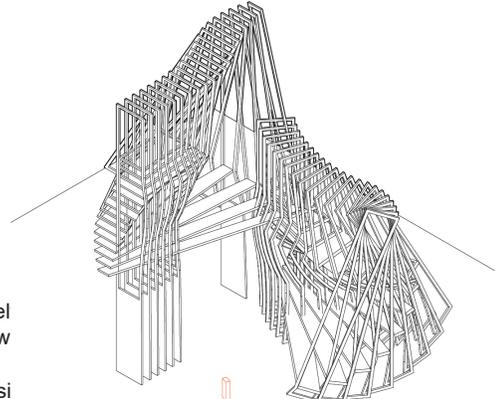
This typology mimic the movement of keys during piano performance. All the pairs rotate around the same axis to create a space. In this case, the shape lost some of the glissando shape meanwhile the space get a nice density similar to piano keys.



**3**

**4 Typology 2st |**

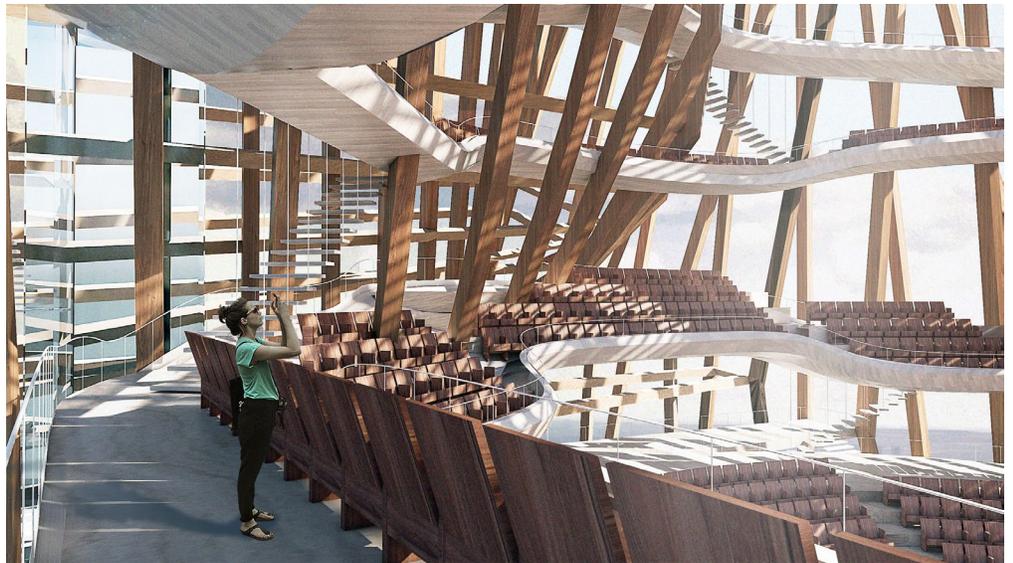
This typology mimic the movement of glissando itself. That means every rotating movements have its own axis and rotating will always come with shifting. In this case, the same rotations to mimic the music is done once again so that the dynamic shape is strengthened one more time. By the strengthening, I can have a void space like a hall inside.

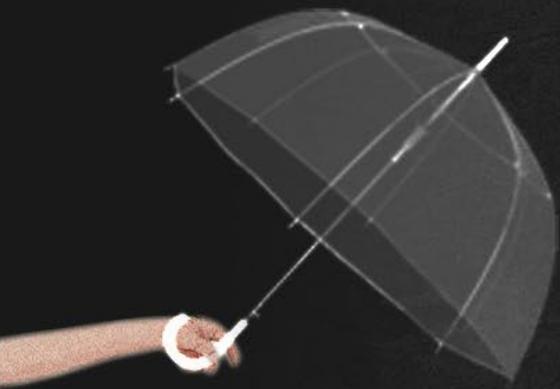


**4**









Thanks for your attention~

