

國立交通大學  
建築研究所  
碩士論文



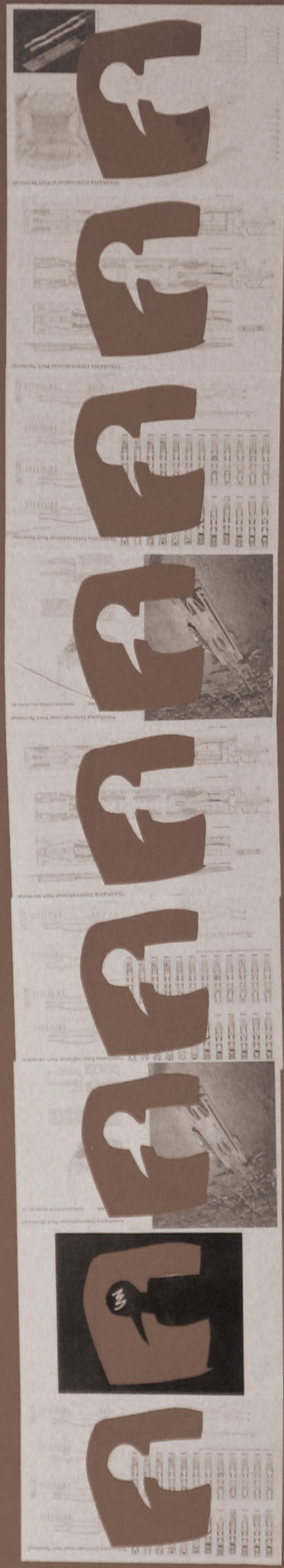
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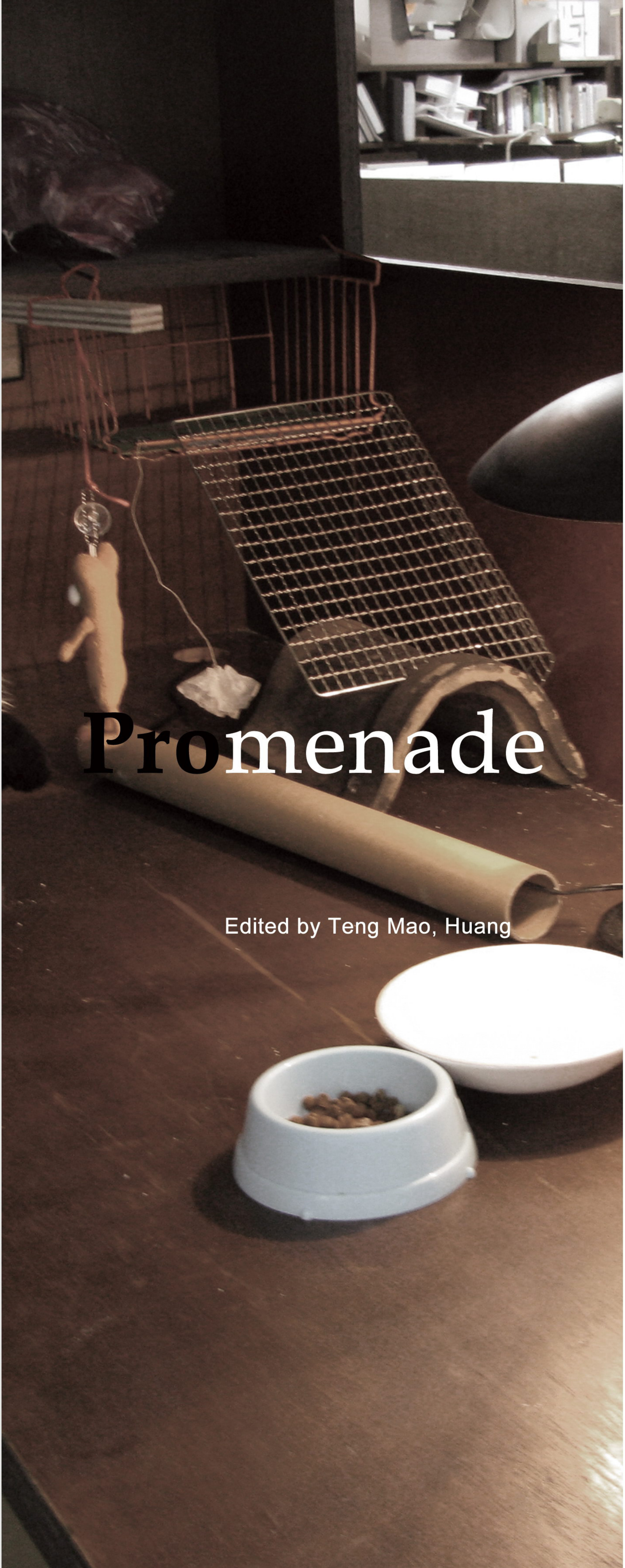
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Studio

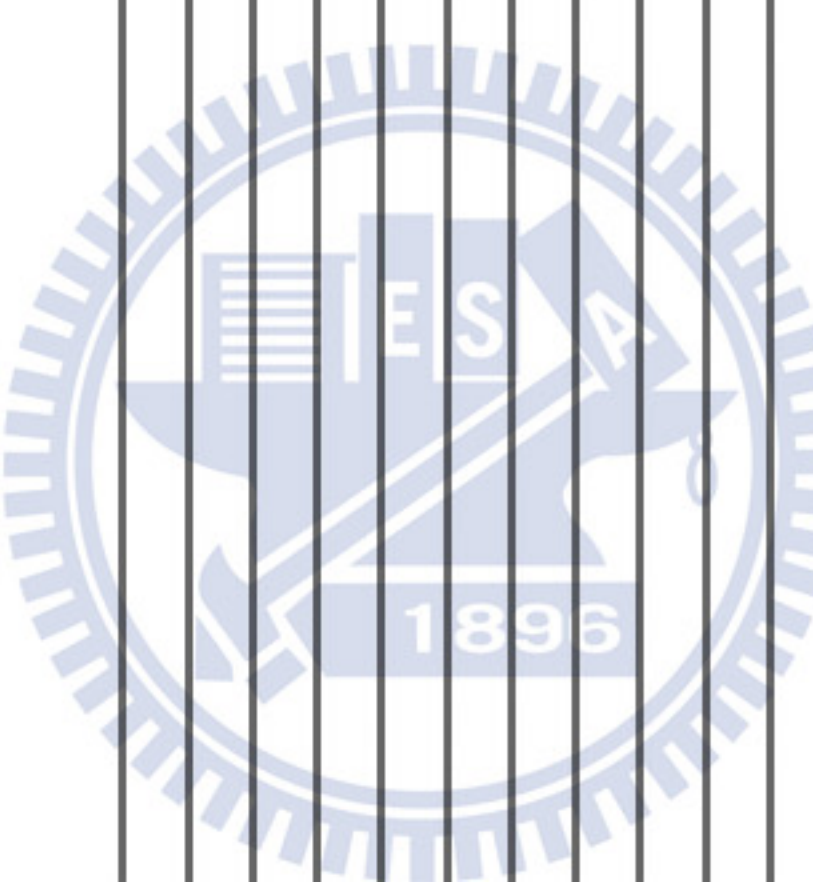
B1





# Promenade

Edited by Teng Mao, Huang



Editor  
Teng Mao, Huang

Promenade Architecturale is Le Corbusier's one of the proposed architecture methods. He used the continuity ramp in the inside building, or along the edge of the building or in the central building. Be a strategic manner to let users and observers to walk inside the building, and along a major in landscape, or a symbol of scenery.

When I read Le Corbusier's case, Villa La Roche, I compared photo graphic with location plans, than the first time began to understand the power of architecture's plan, and what is the relationship between the organization of space and space continuity. Using "Promenade Architecturale" to create architecture fascination is closely linked to the origin of space development. This means that this way to design building is controlled by the circulation. By means of the influence of every circulation, it interlocks building's design direction.

Although each design case is different, and some discussion of the skin layer, and some discussion of function. But until last, when using concept to organize plans, I still come back to the starting point to view every location in the plan, whether there are vision's special positions. Than, I adjusted plans once again when I connected with every position. This kind of action almost became my habit at this stage.

建築漫步，為柯比意所提出的建築手法之一，其在建築內部使用連續性的折返式坡道，或沿著建築的邊緣或在建築的中央，策略性地將使用者、觀察者，在建築內部沿著某種重要景觀、象徵性景物逐步遊走。

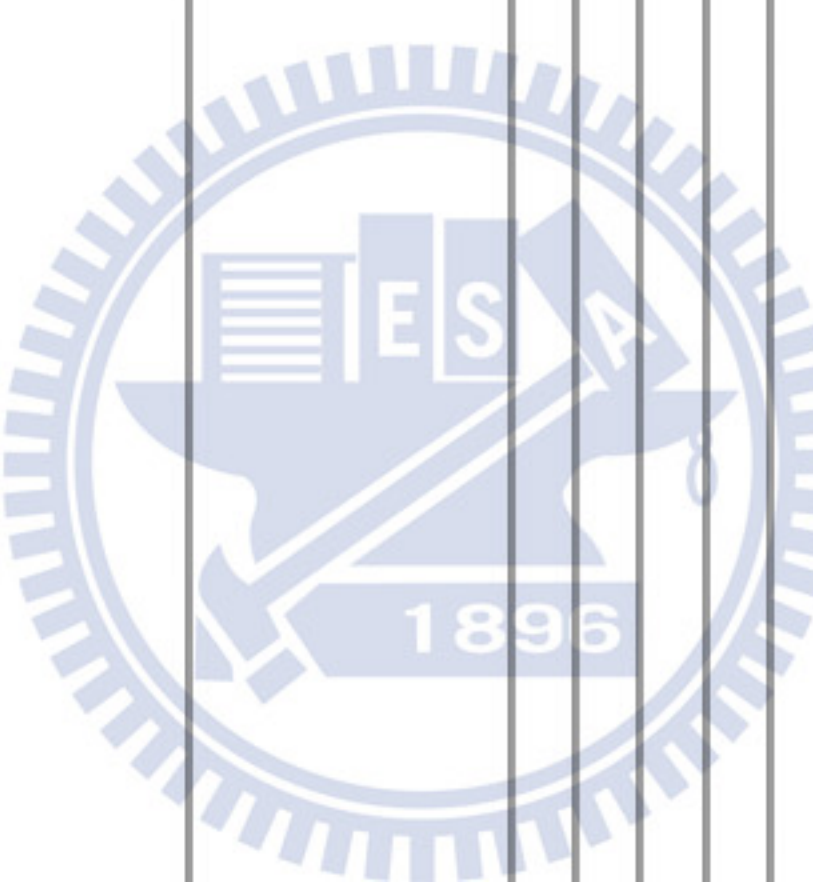
當我研讀柯比意的案例Villa La Roche，比對實體照片與平面位置時，第一次開始知道建築平面的力量，了解空間結構的關係與空間的連續性為何，由建築漫步所創造的逐步魅力，正緊扣著空間最初的發展起源。運用著這樣的方式所創造出的建築，絕大部分由動線所控制，藉由每一段動線的影響力，來連扣建築的整個大方向。

儘管每一個設計案的不同，有的討論皮層、有的討論機能，但直至最後利用概念在組織平面時，但我依然會回到最初的漫步起點，一一檢視平面的每一個位置，是否具備視線的關注點，進而將每一個特殊的景物連貫起來，再重新調整一次平面。這樣的動作幾乎成為了我現階段的習慣。



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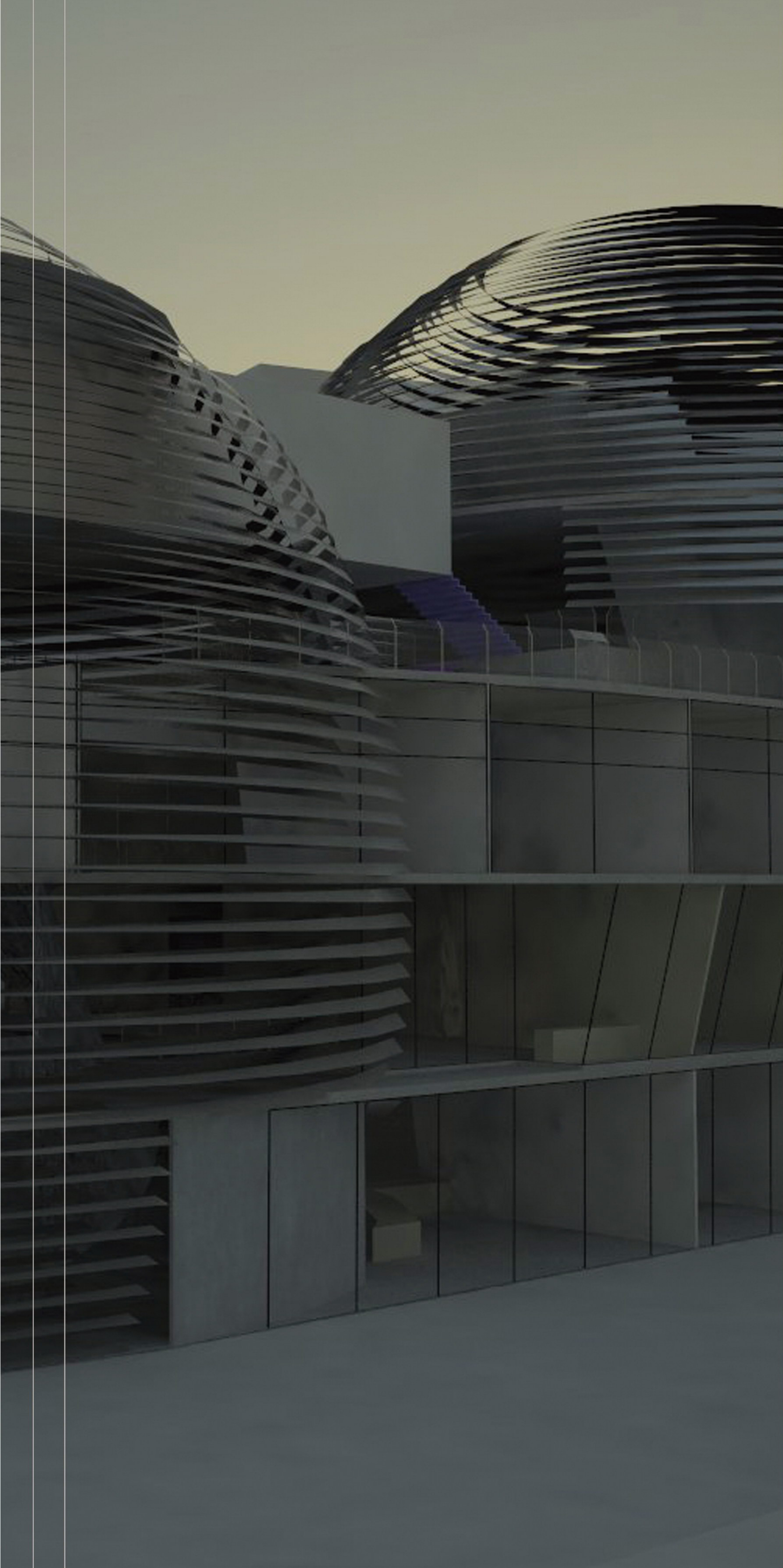


# Nanjing West Road 3C Marketplace

## Loss of weight of "Divine Pig"

神豬的價值來自於它的重量代表著對神的一種尊敬  
但是當神豬失去重量的時候，那它就失去了對神的尊敬嗎？且它就失去了它的價值了嗎？

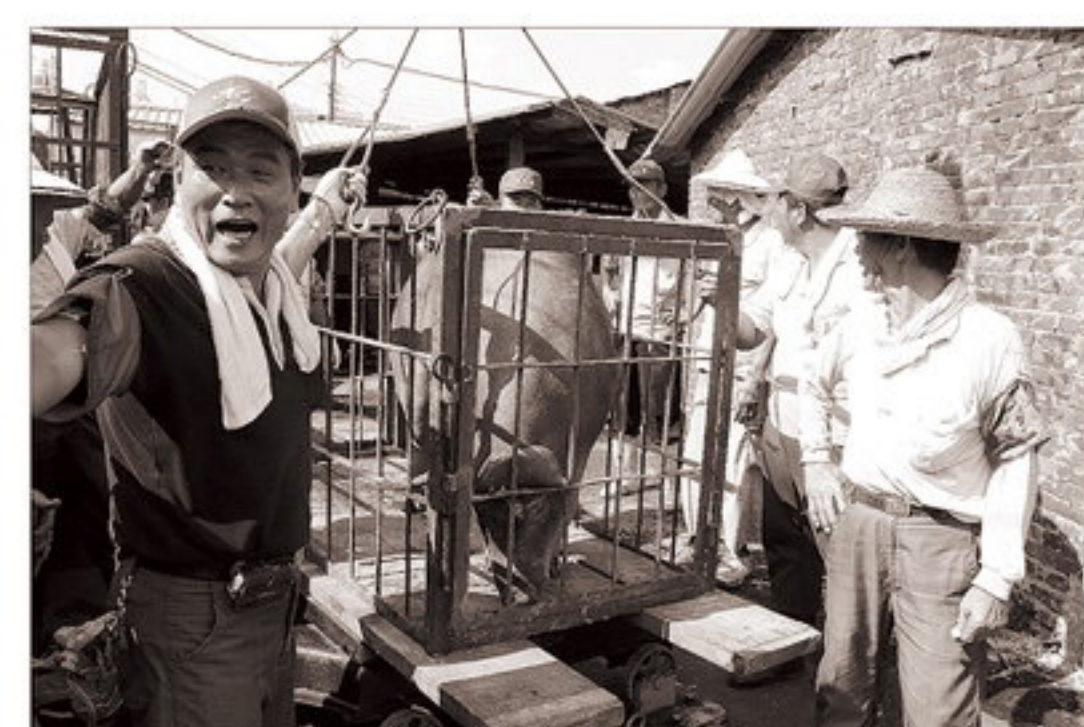






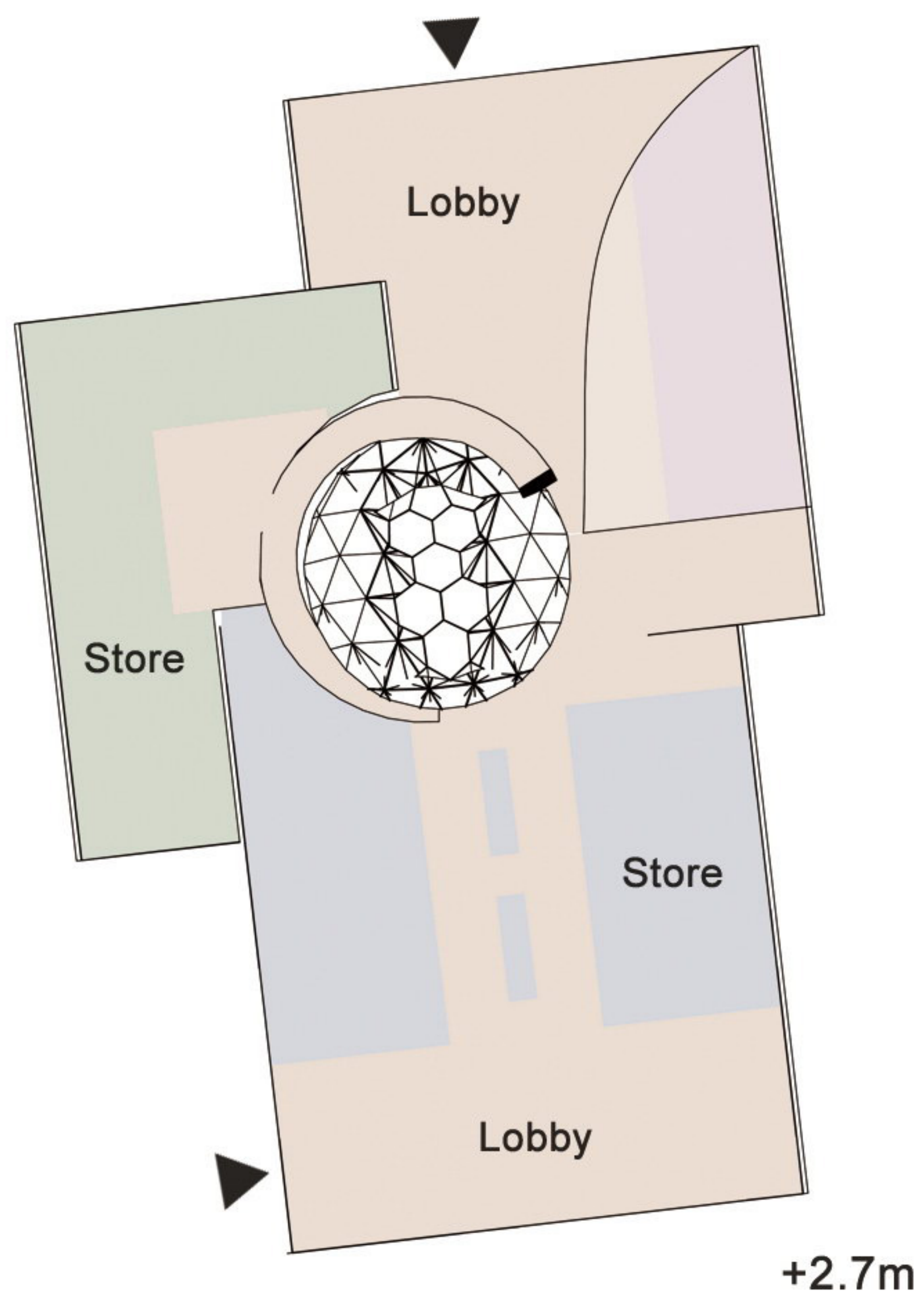
This event falls on January 6 of the lunar calendar. An altar is set up in front of the Changfuyen Zushih Temple. A “divine” pig, decorated with gold medals and colorful lights, is offered. Before the worship ceremony, there is a float parade in town. On the day, the rattles and clatters of drums and gongs draw tons of tourists in to witness this greatest celebration event of Sansia.

The Traditional Custom of "Divine Pig"

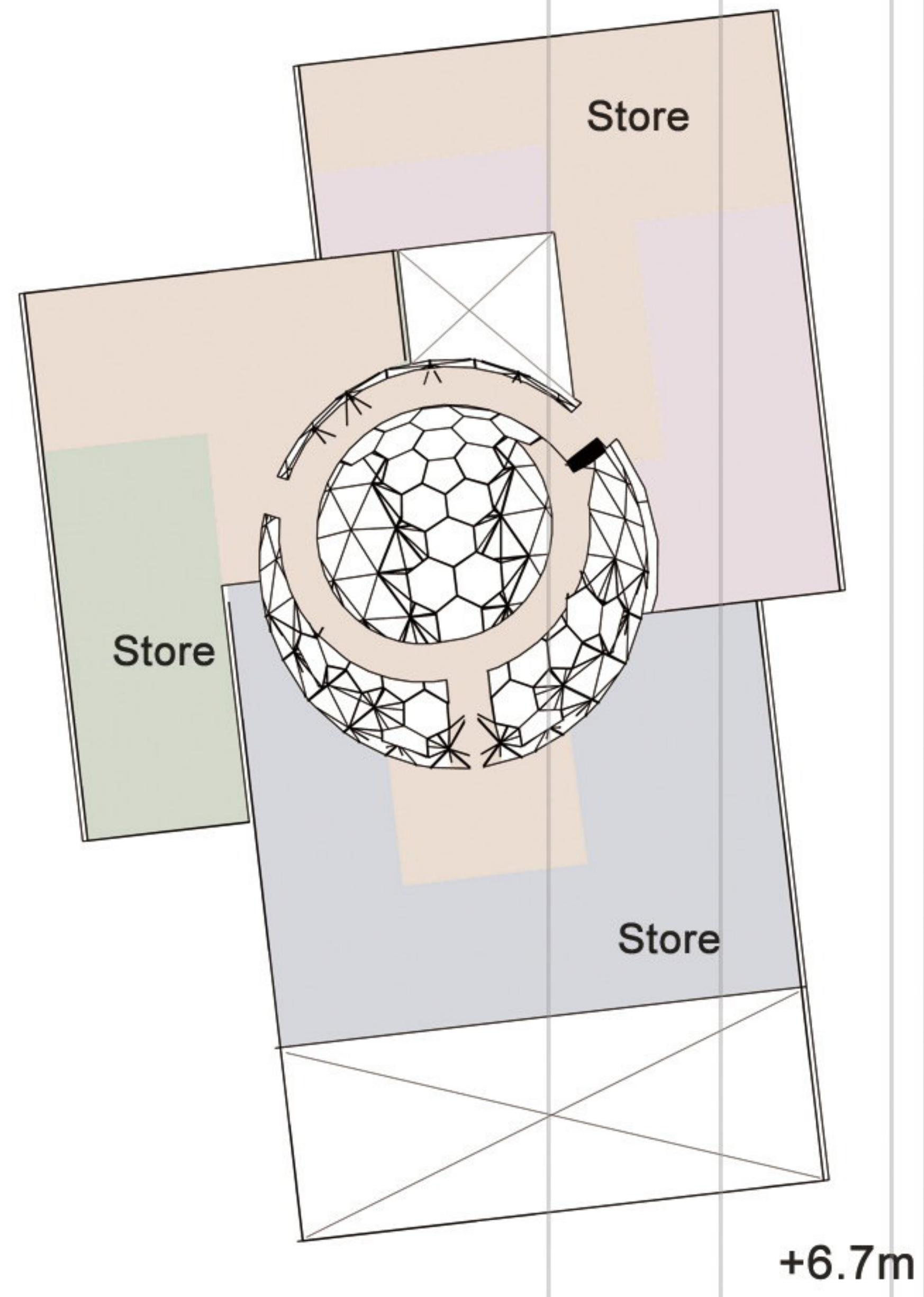




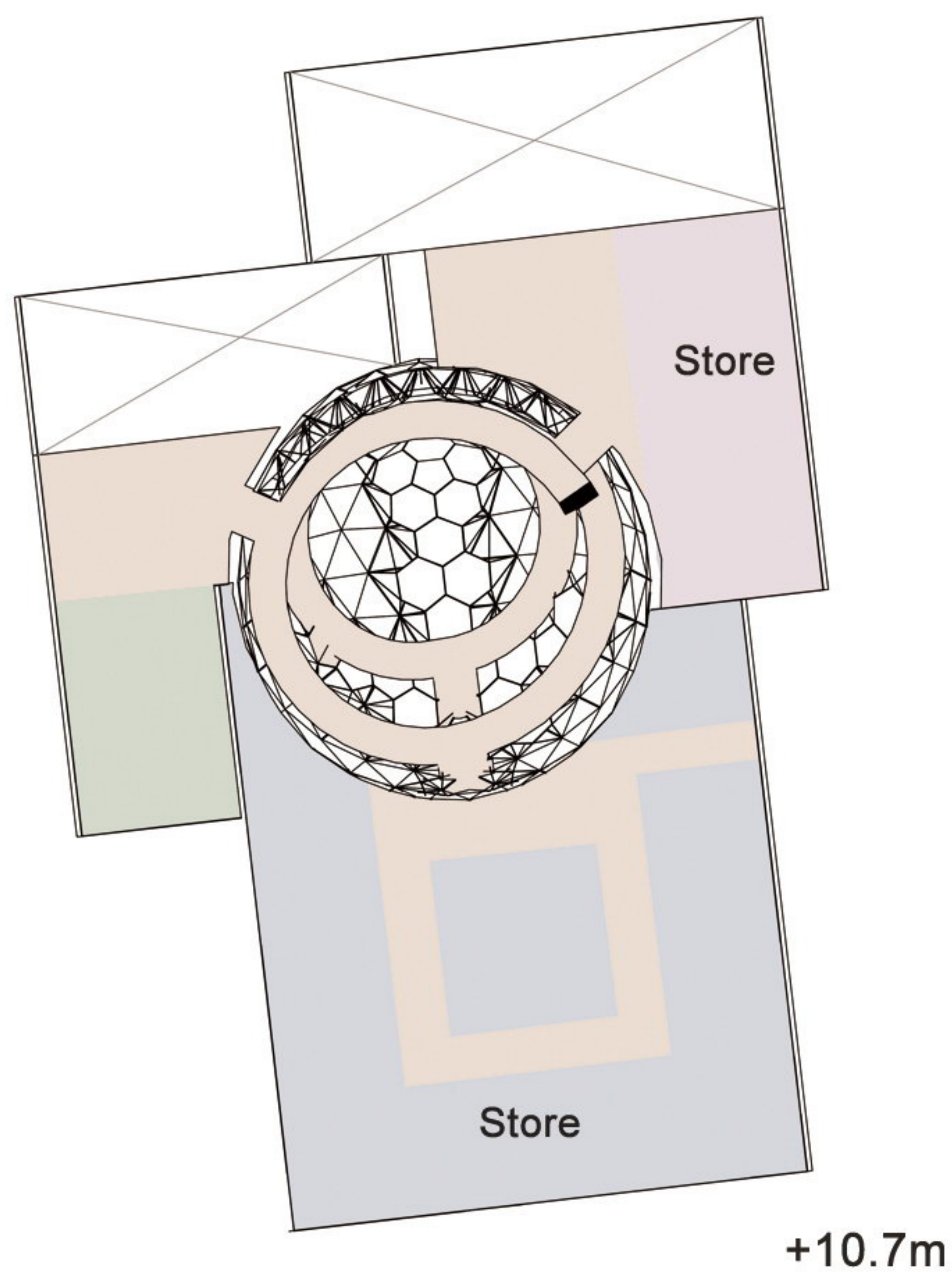
PLAN



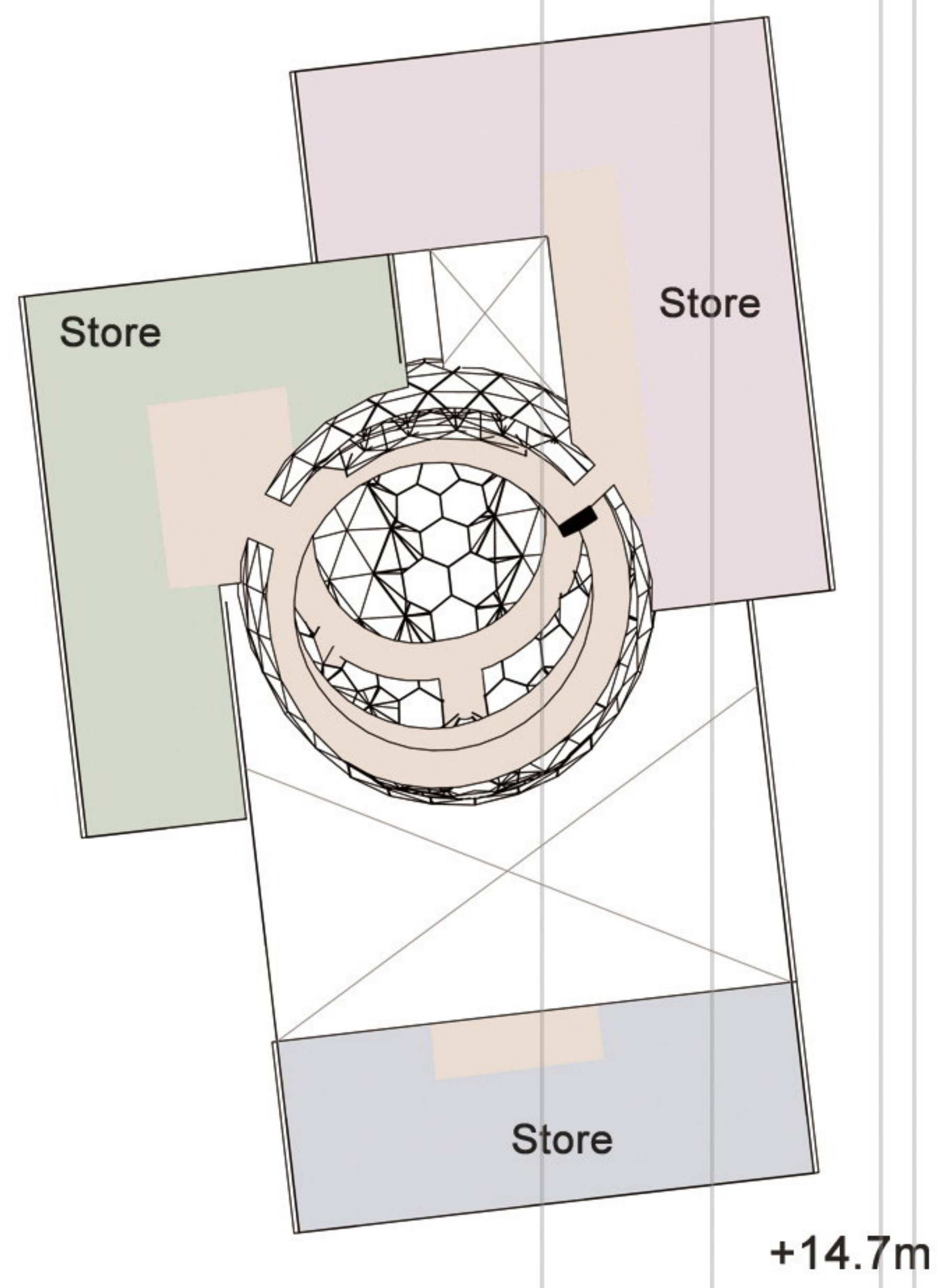
+2.7m



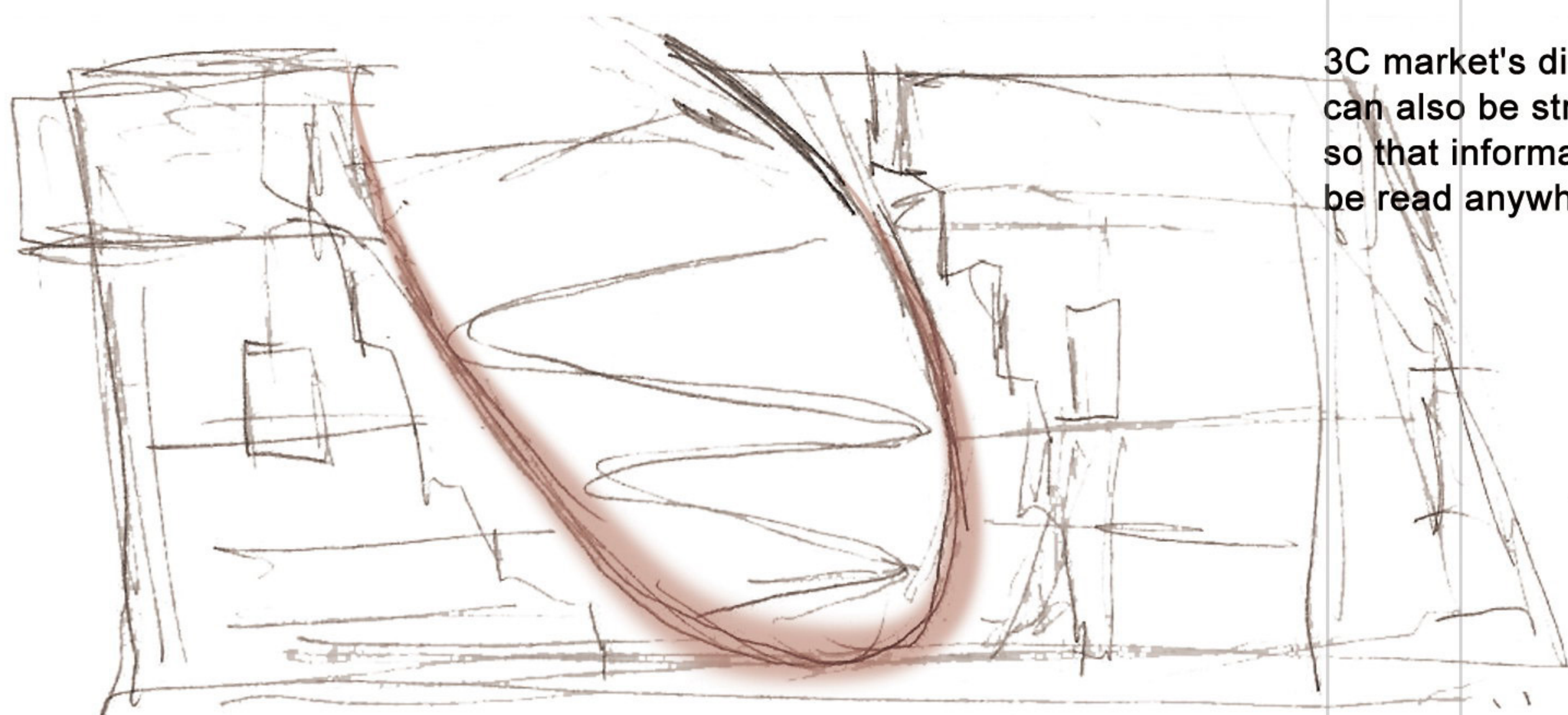
+6.7m



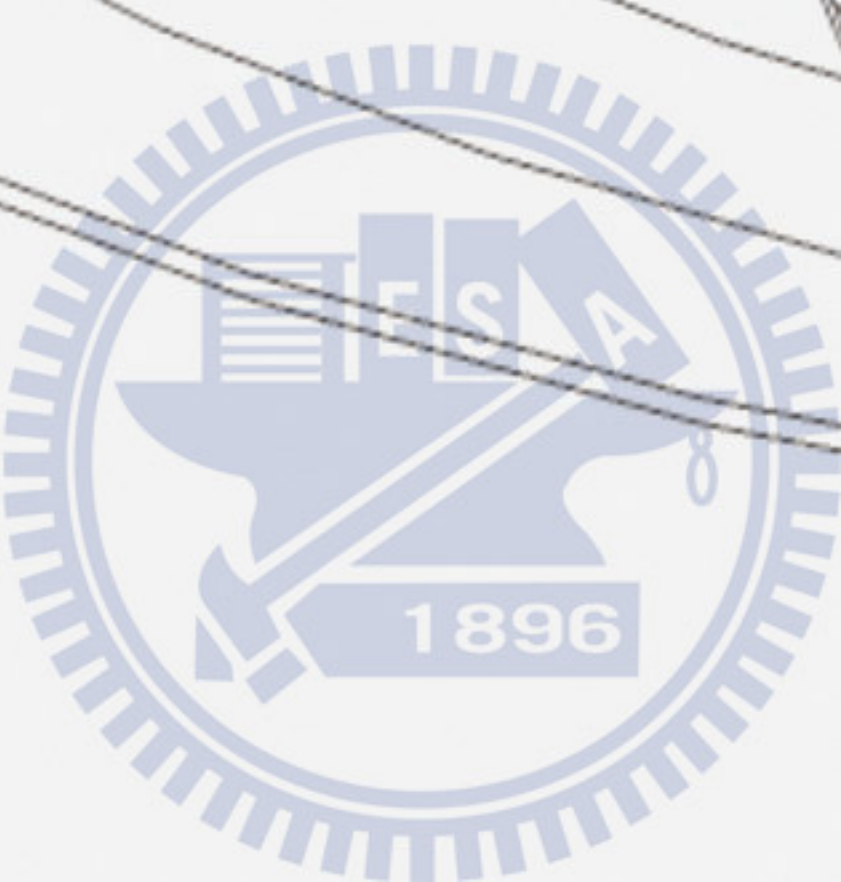
+10.7m



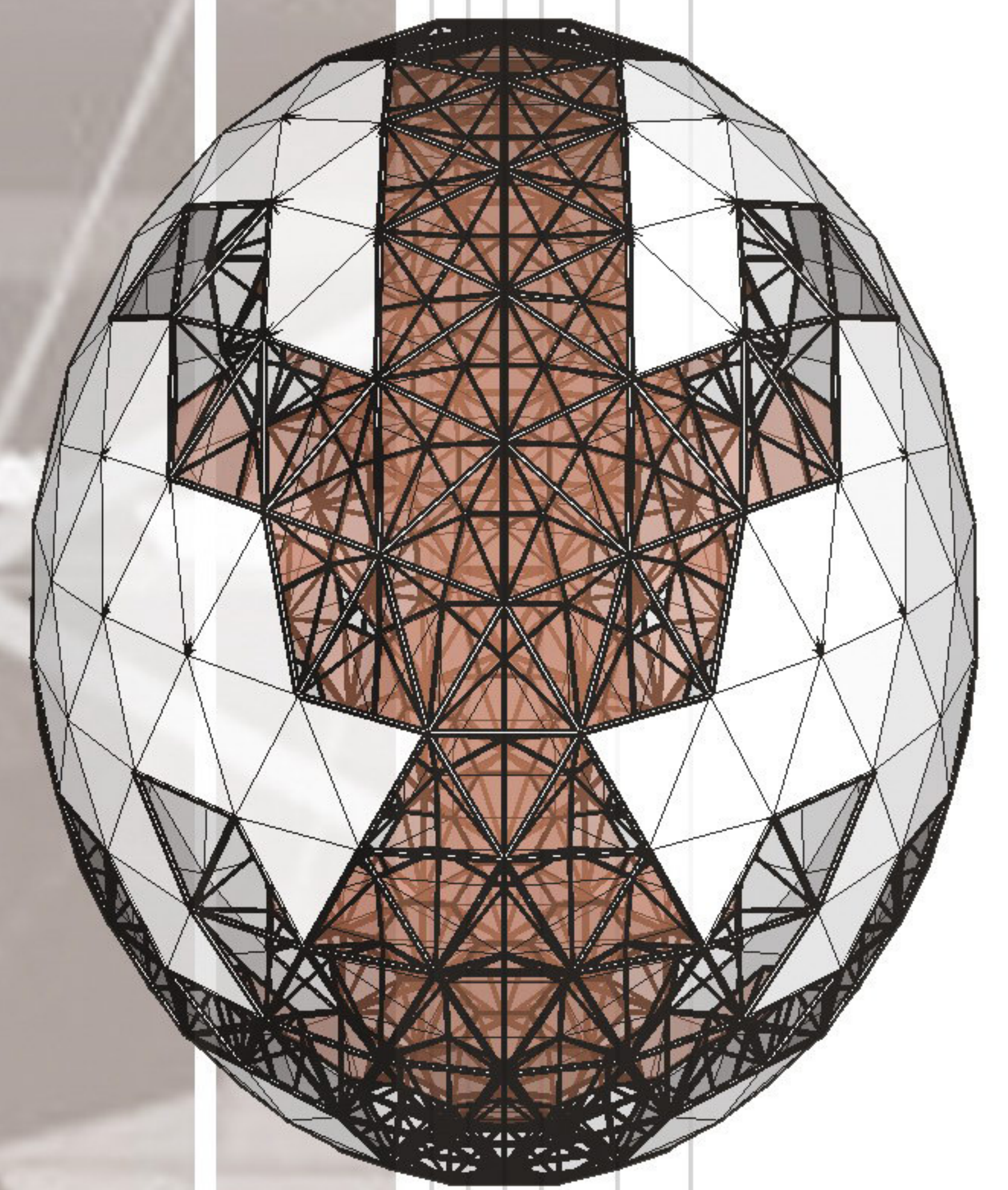
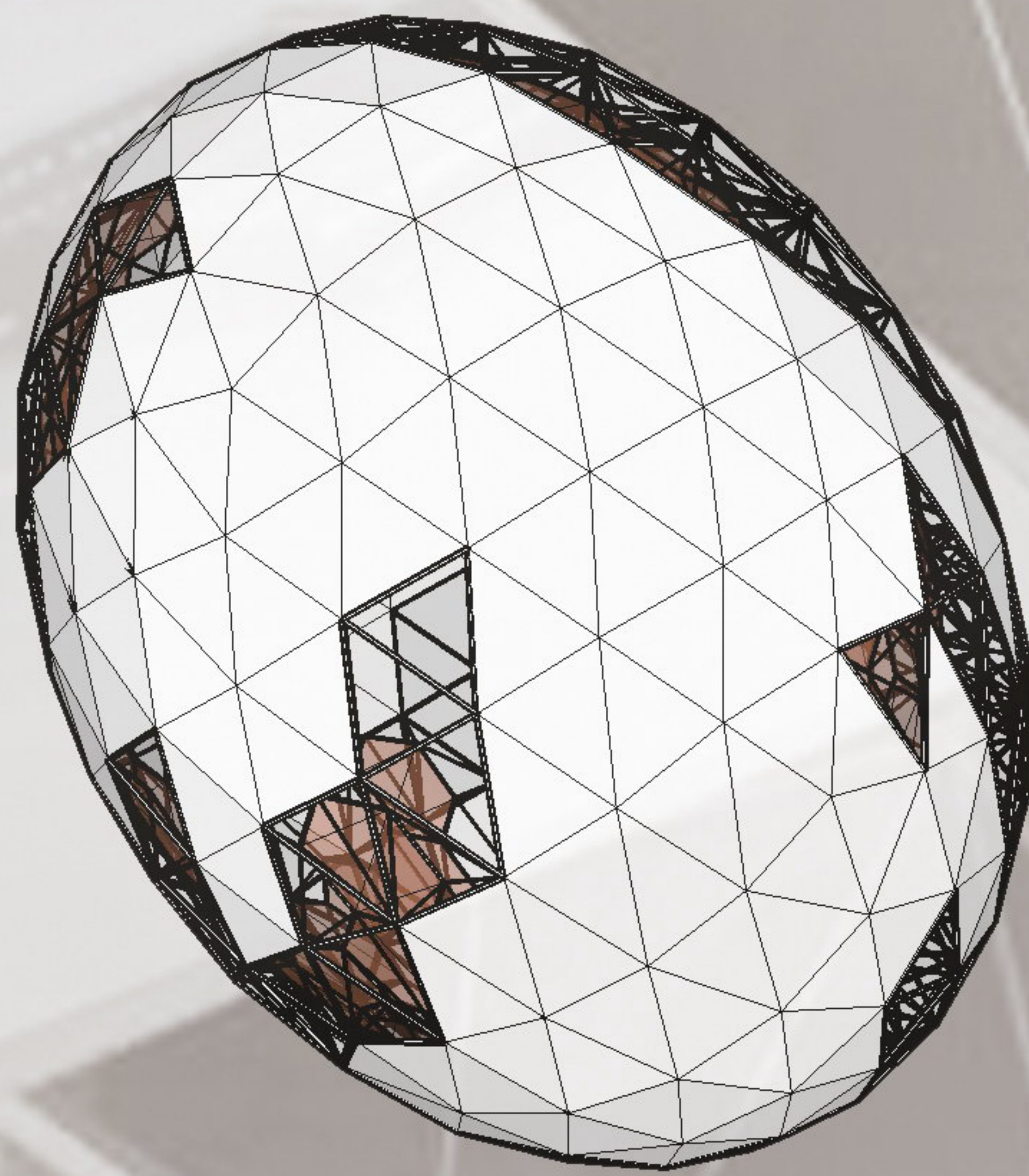
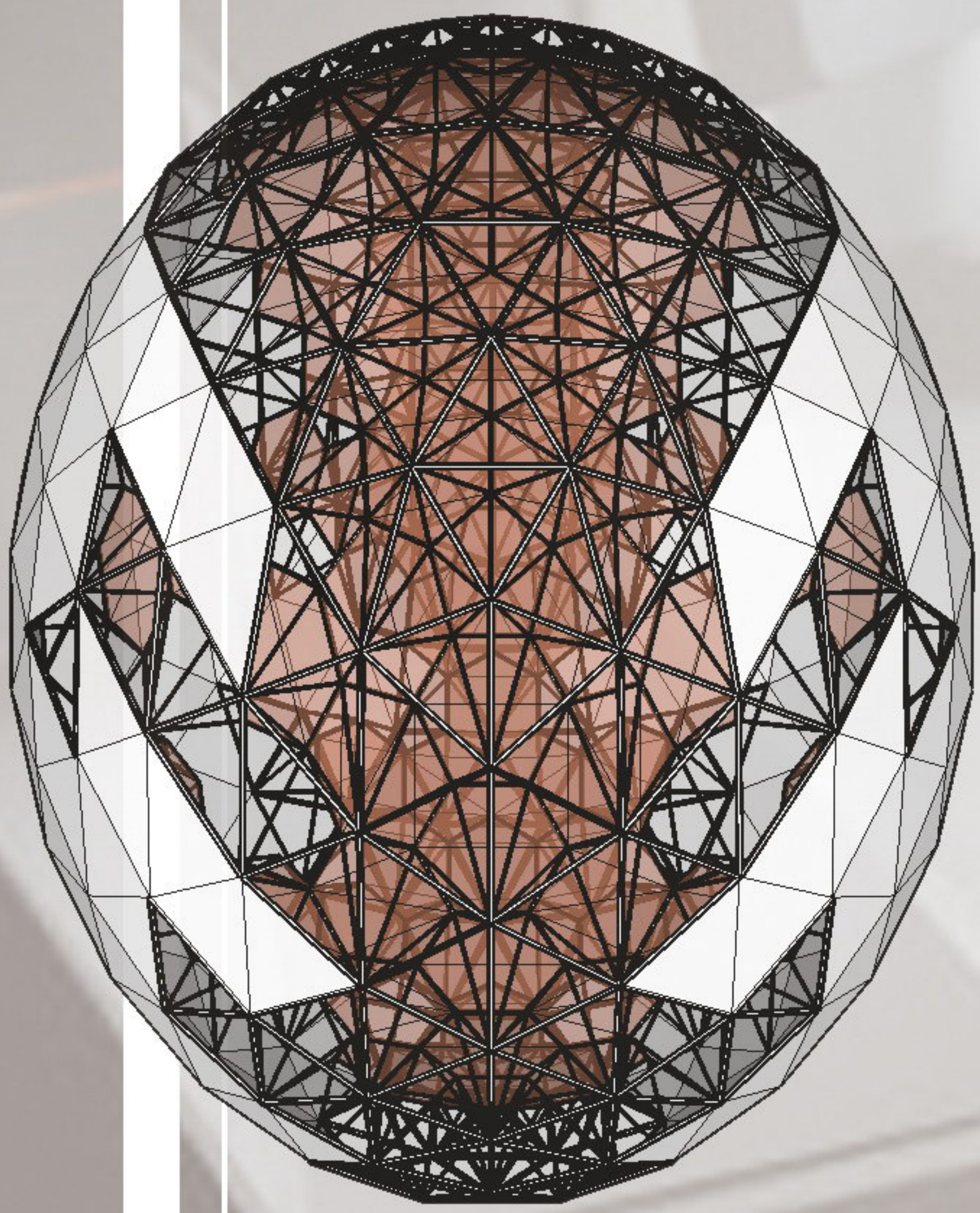
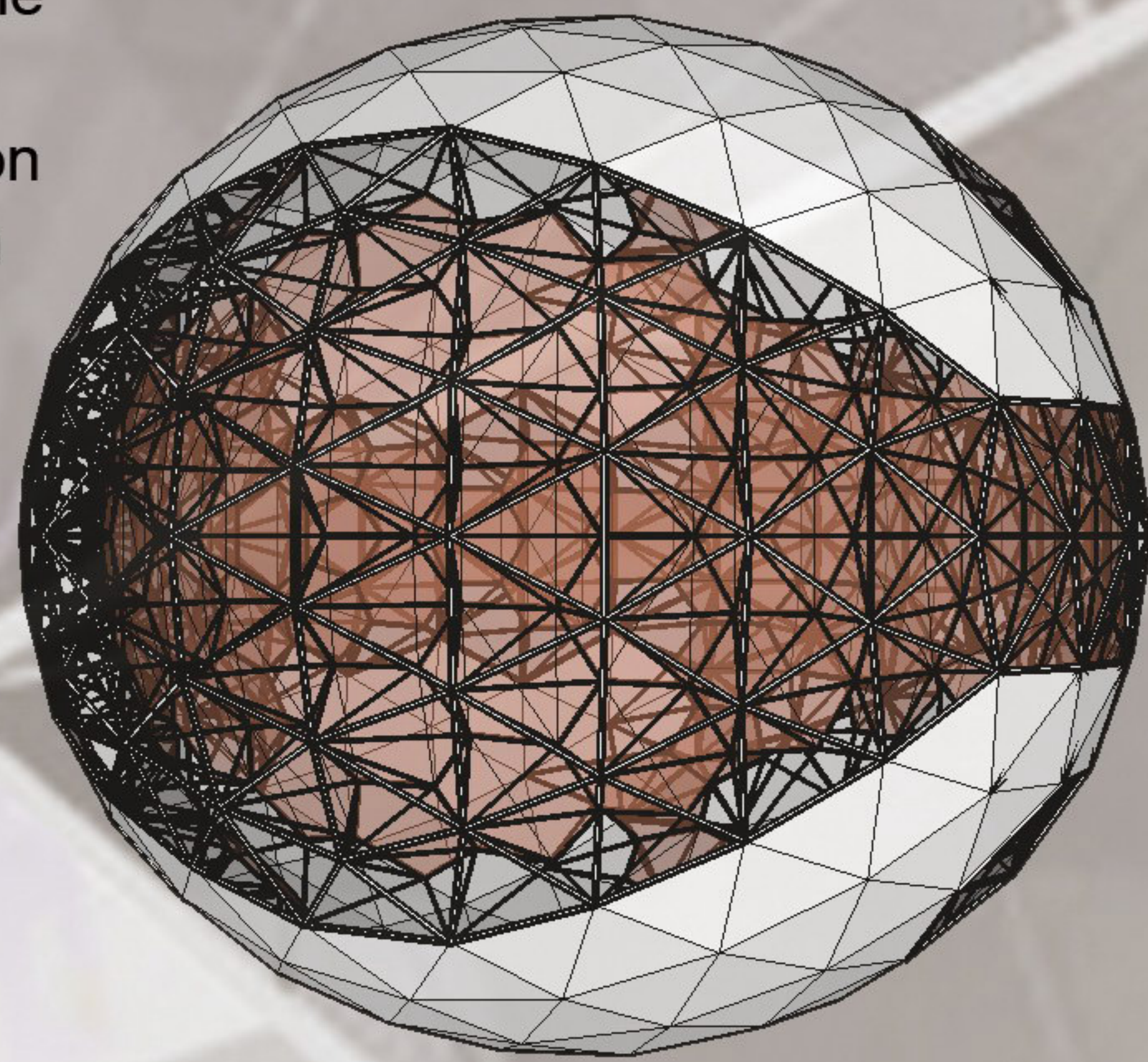
+14.7m



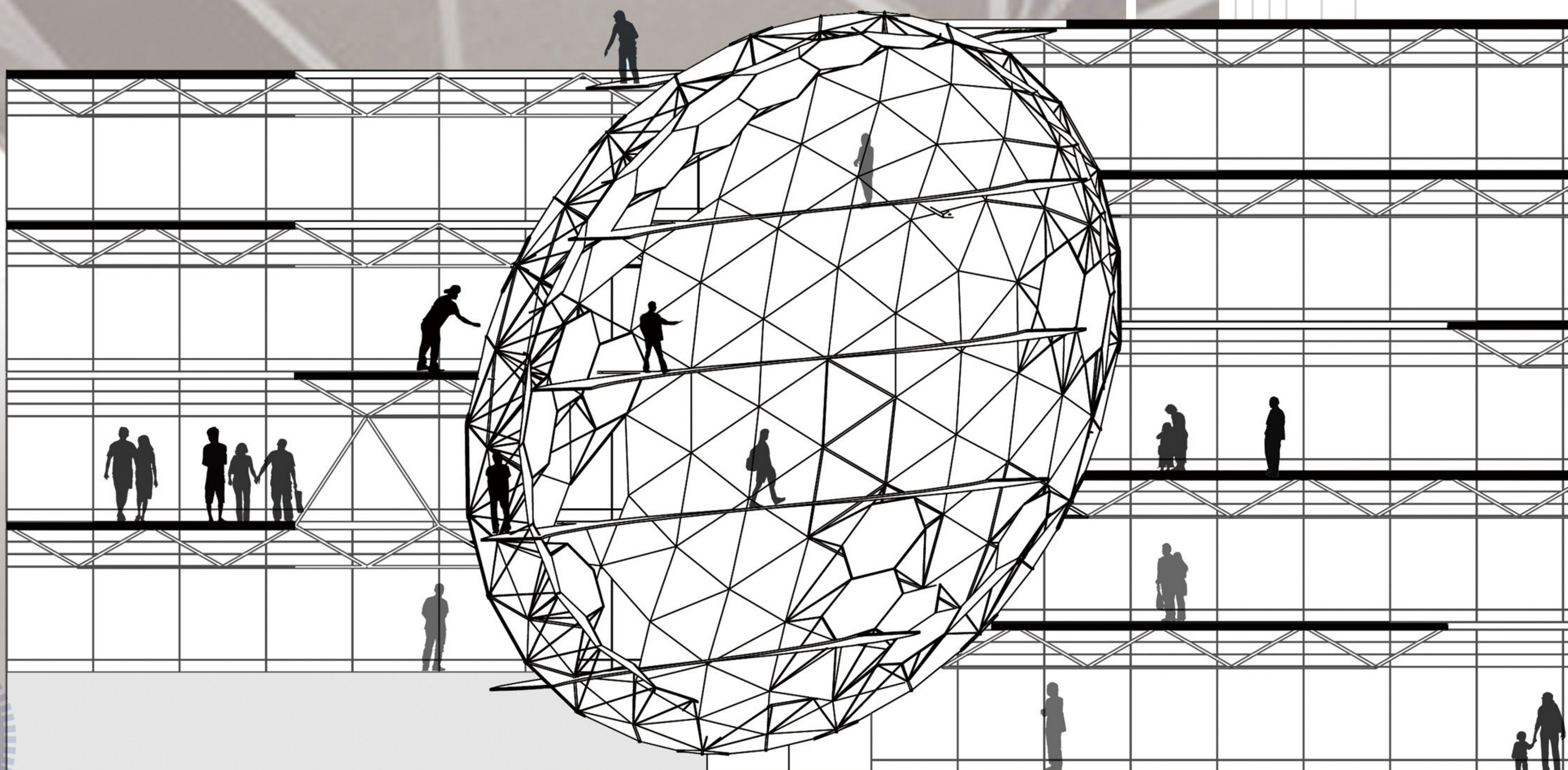
3C market's display wall can also be stretched, so that information can be read anywhere

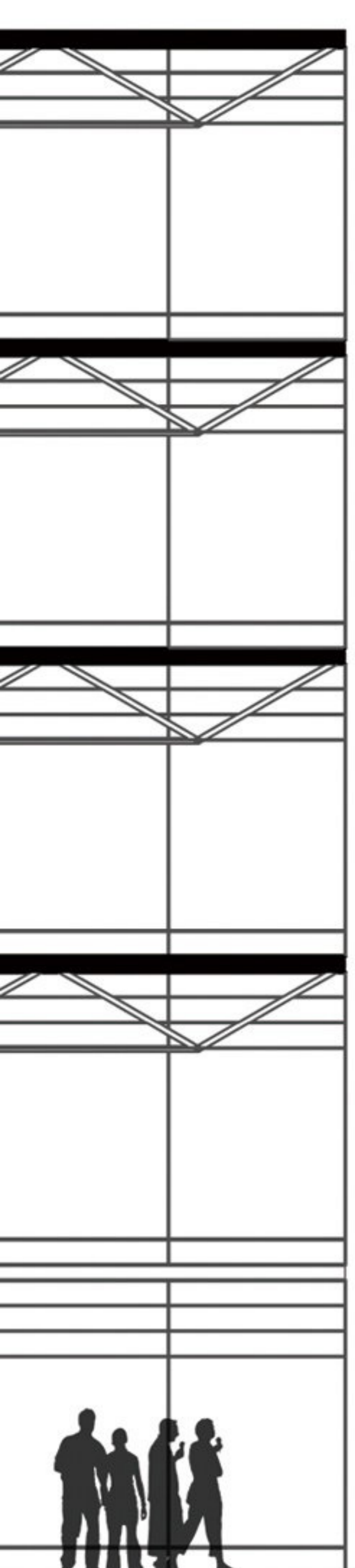
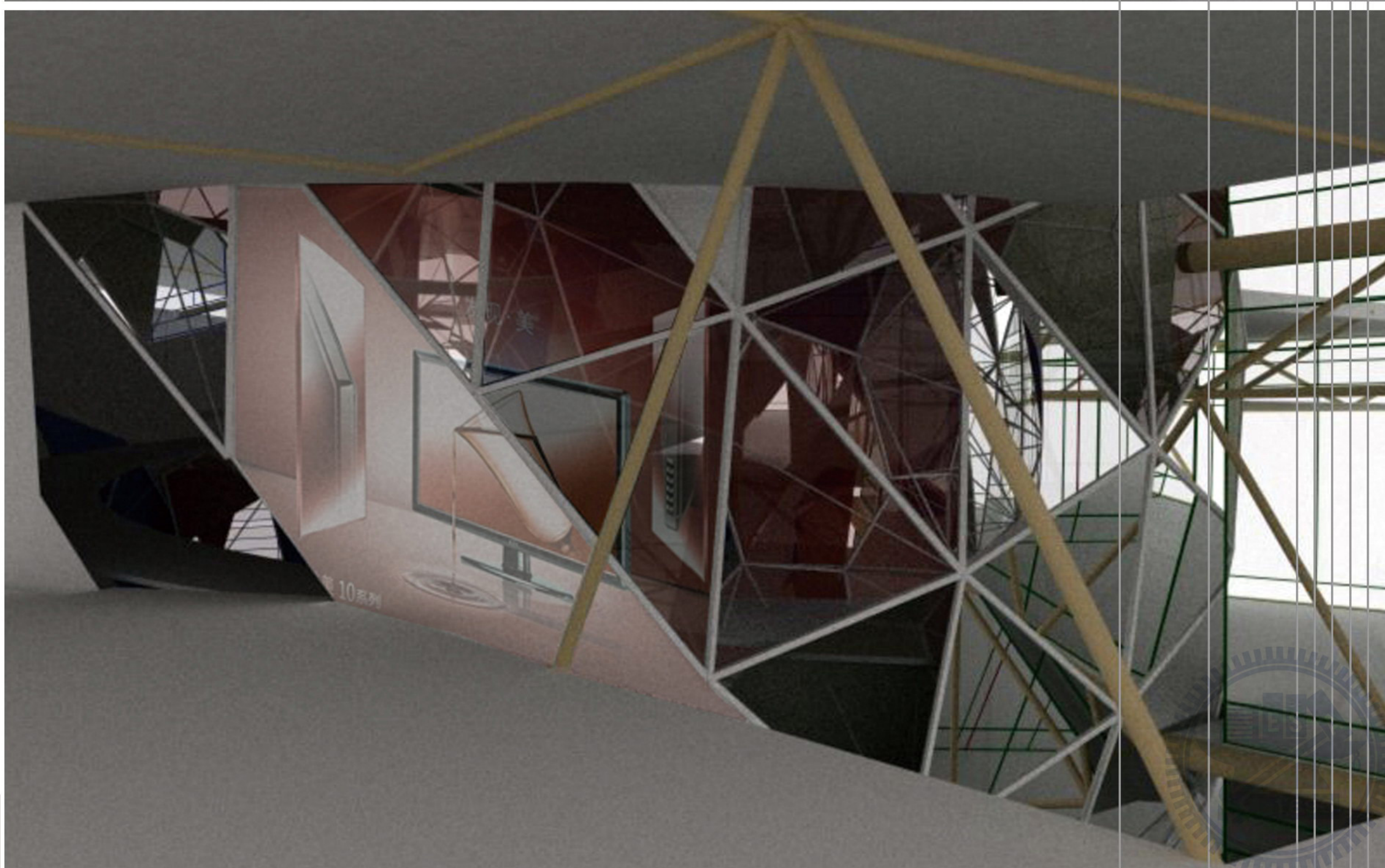
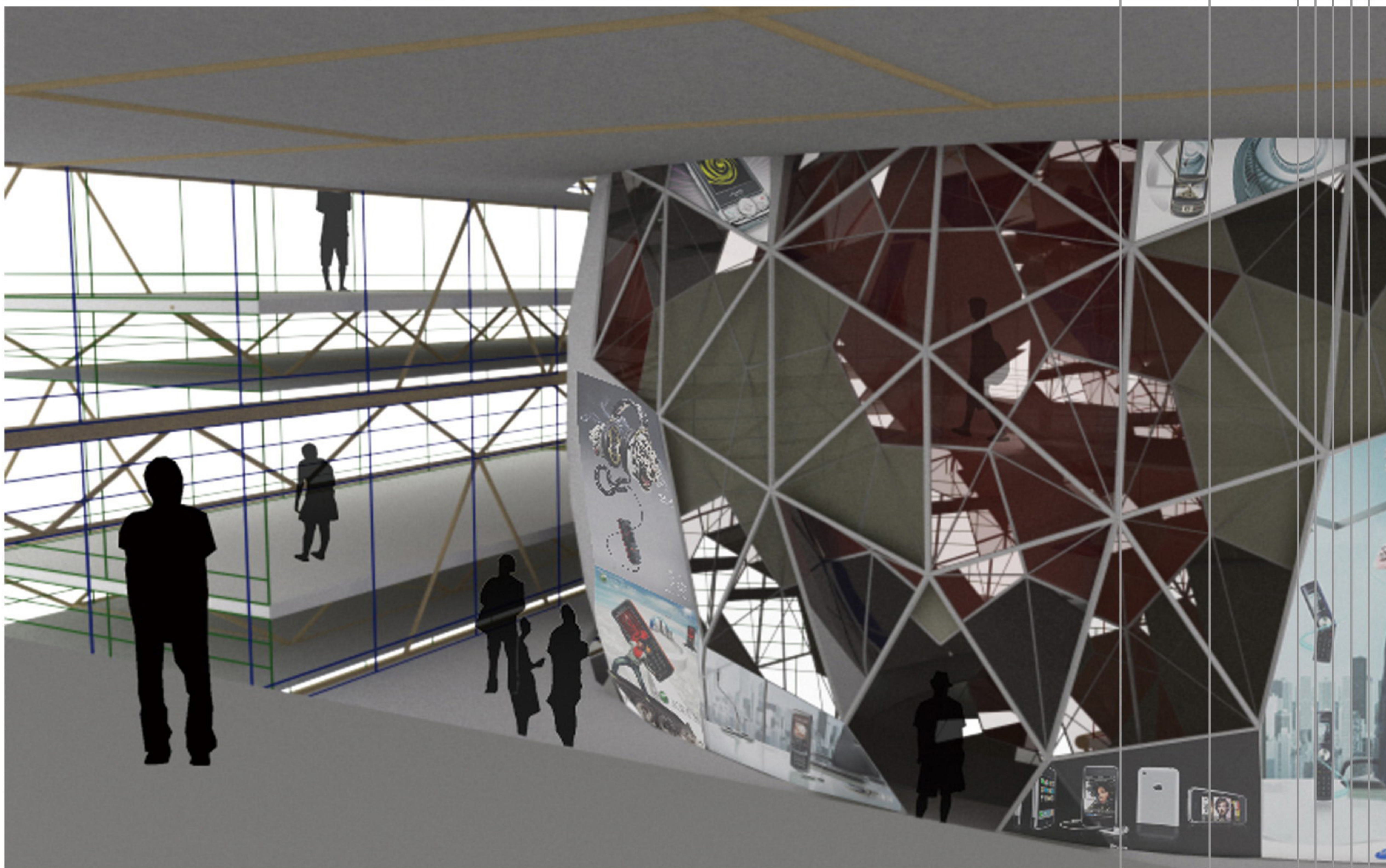


When people walk up along the path, they may be stand on skin's inside or outside, or in the middle of two layers of skin.  
For me, the location information is placed on this pig . Only into this skin inside, they can glance viewing all of information.



This is final structure to simulate the divine pig's patten

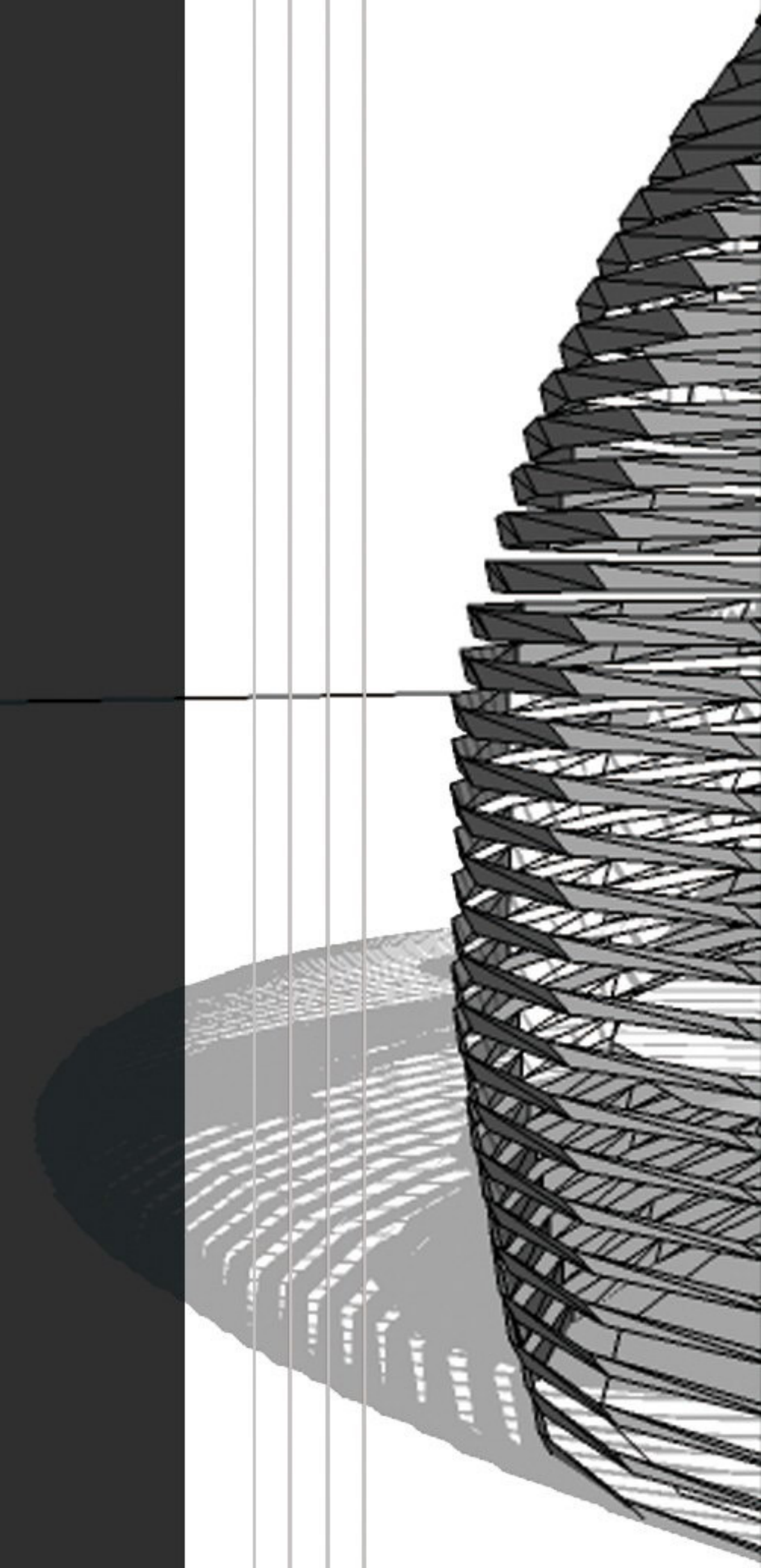




The value of "Divine Pig" is from the weight of it represents a respect for God. However, when divine pig lost weight, is it lost the respect of God? and is it lost its value?



People's consumption behavior becomes of "cards" to replace the money. Money lost weight, consumer's behavior begin to be changed. People will lost the feeling of money weight to measure the value of goods. Loss of weight of money, but also has value?



**Awareness of the weight has two ways:**

**Lost weight**  
(Appearance)

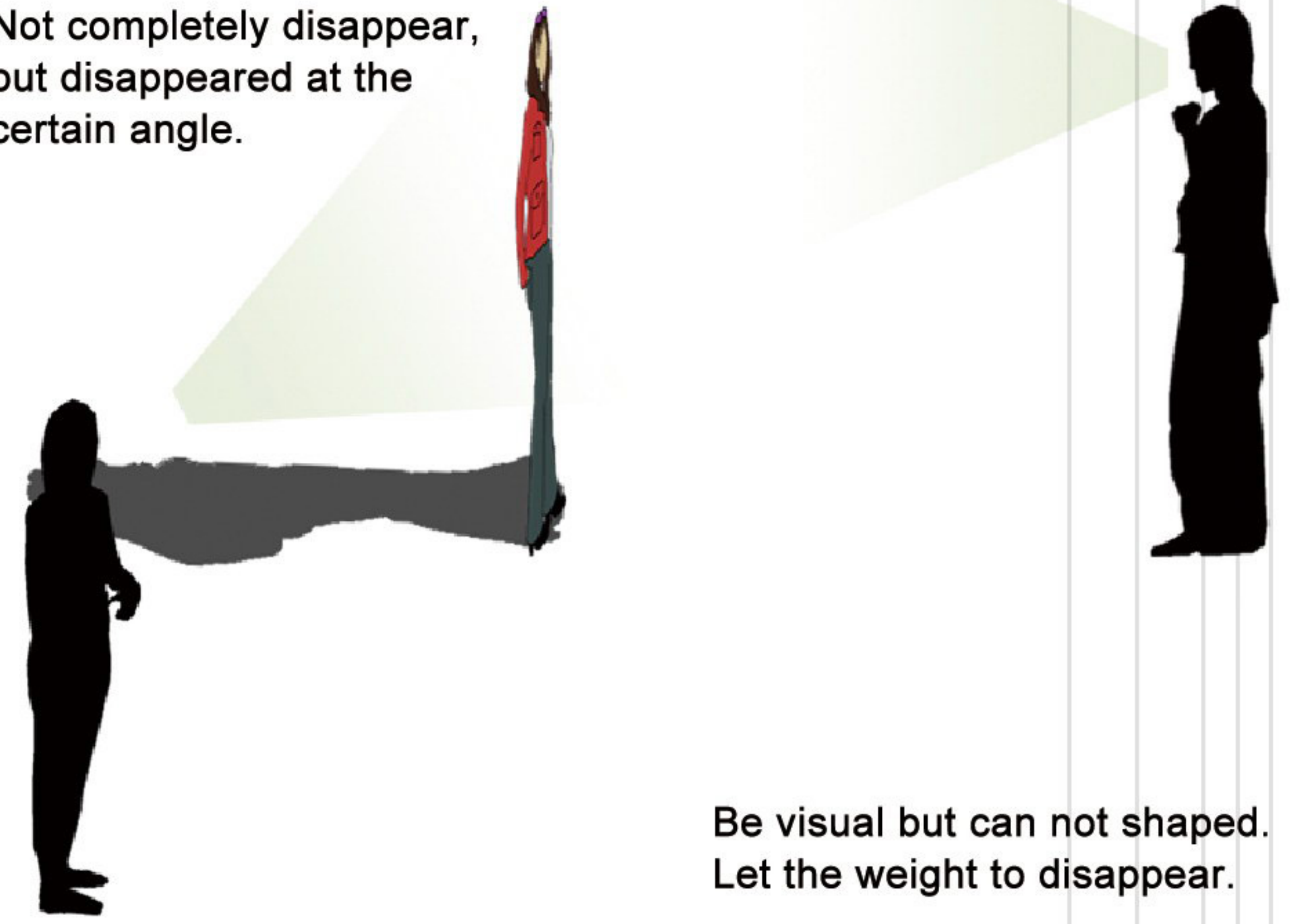
- Body change its form
- Volume disappear

**The feeling of space to lose weight**  
(inside space)

- 3D space's feeling disappear
- To confuse with light or color
- Float

**How to let the body to disappear?**

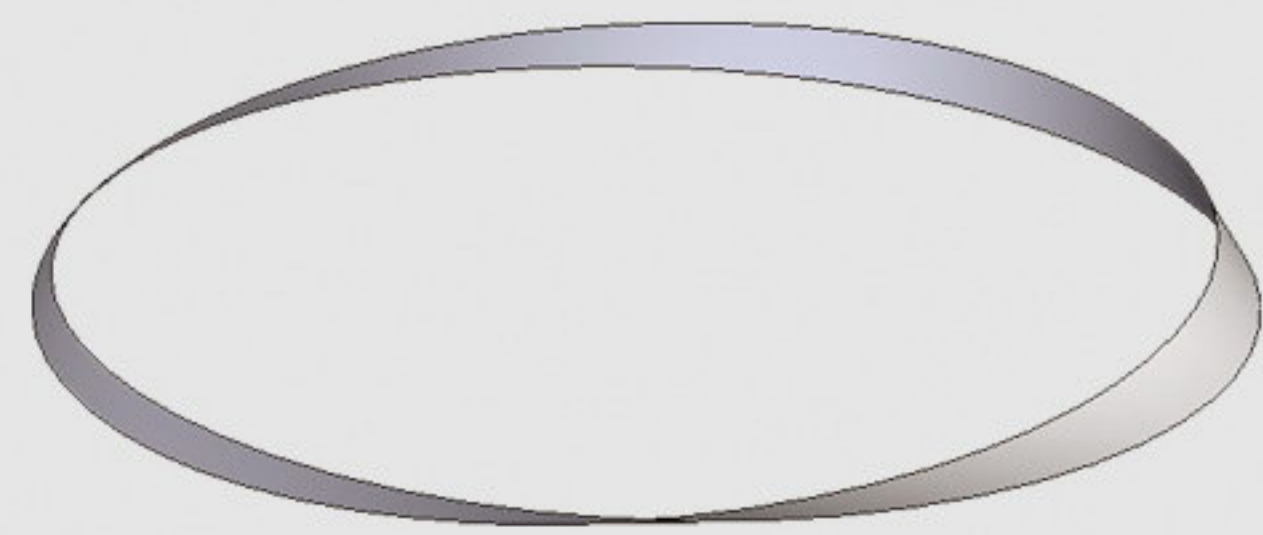
Not completely disappear,  
but disappeared at the  
certain angle.



Be visual but can not shaped.  
Let the weight to disappear.

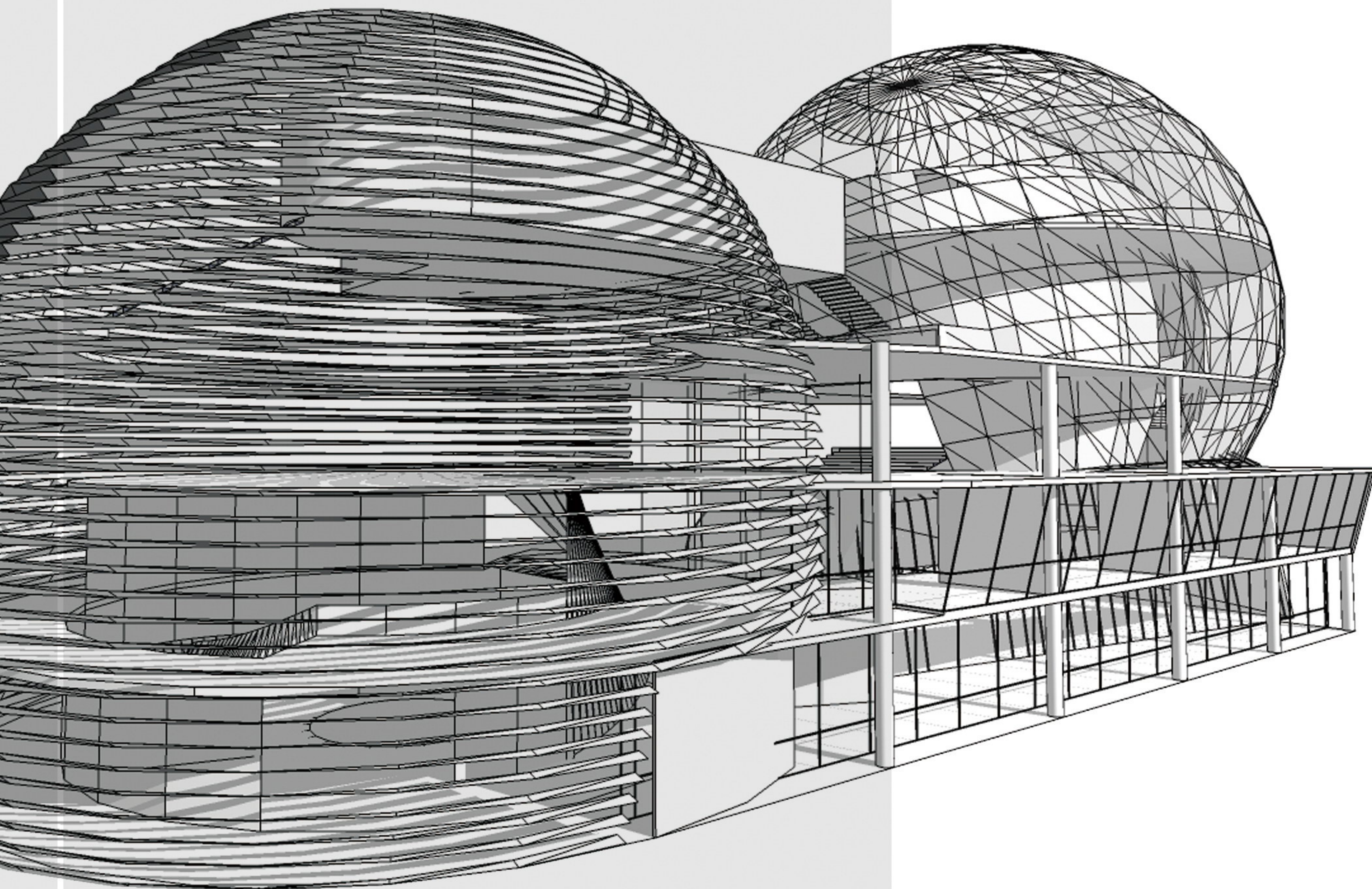
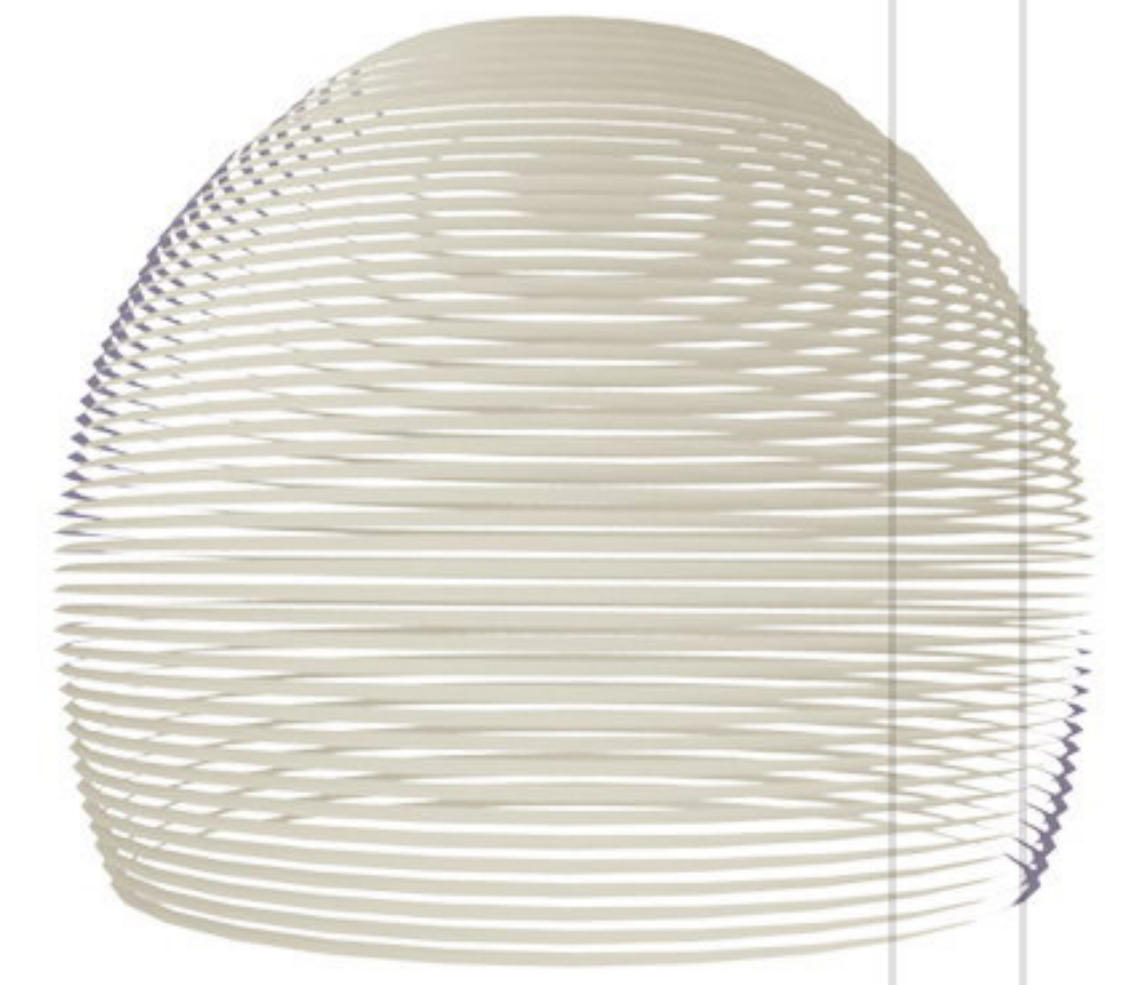
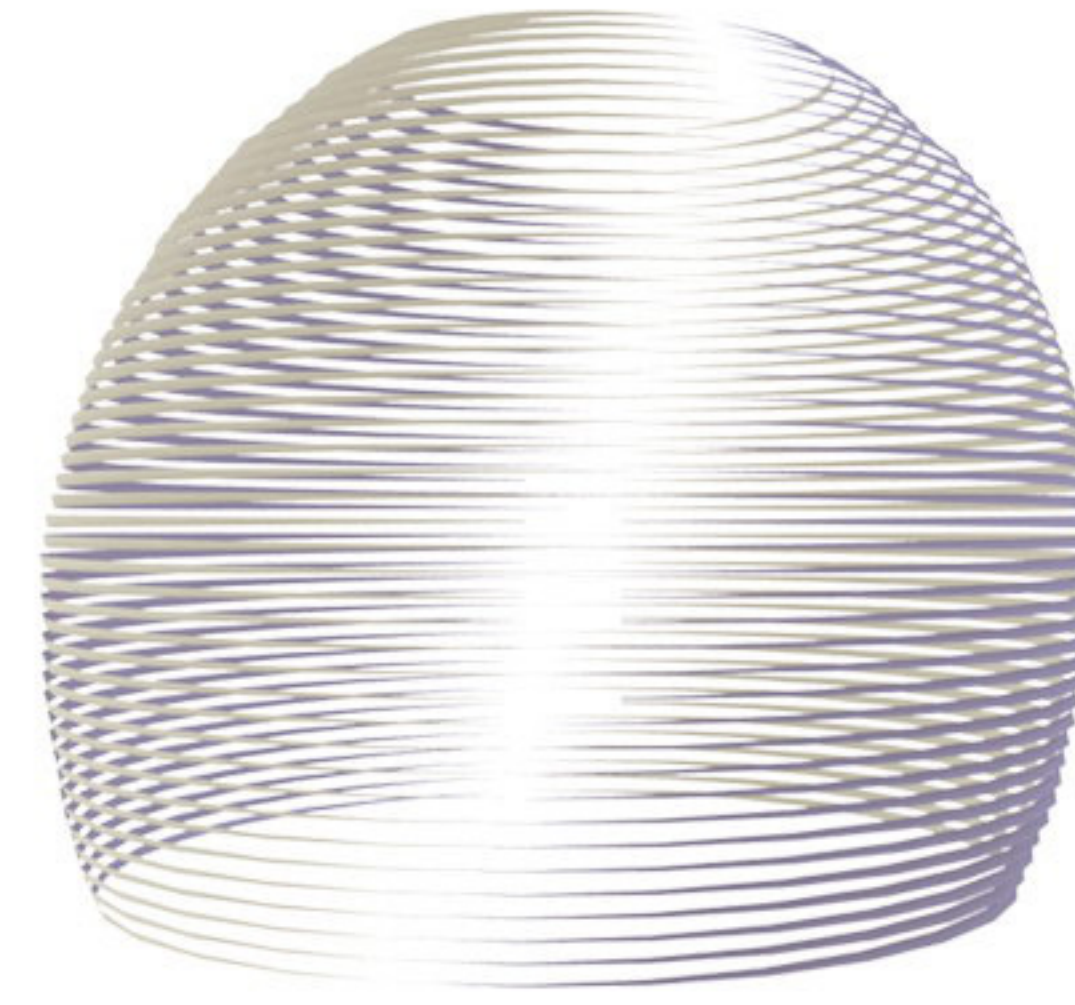
**Use overturning surface to discuss vision's angle**

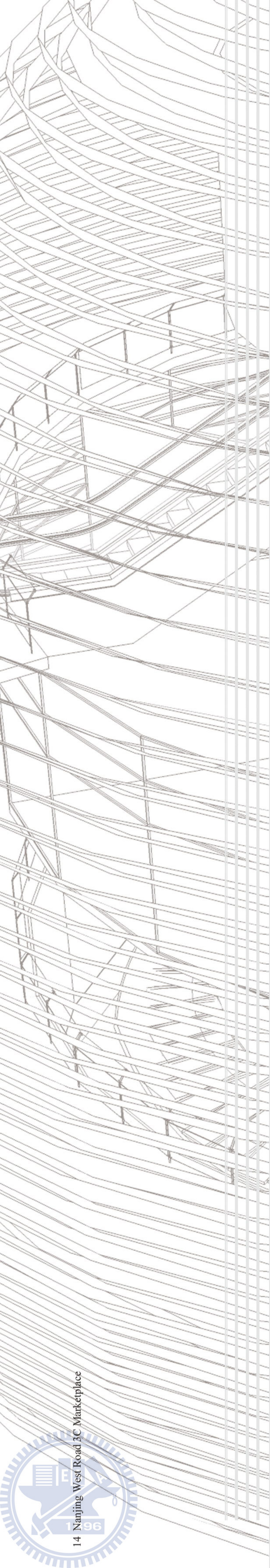
Overturning surface can control the place of visual or non-visual



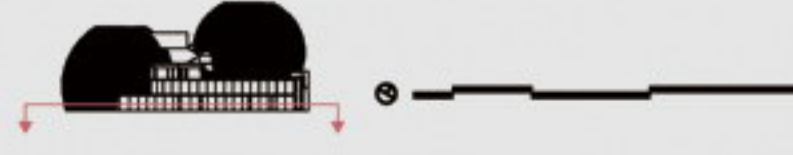
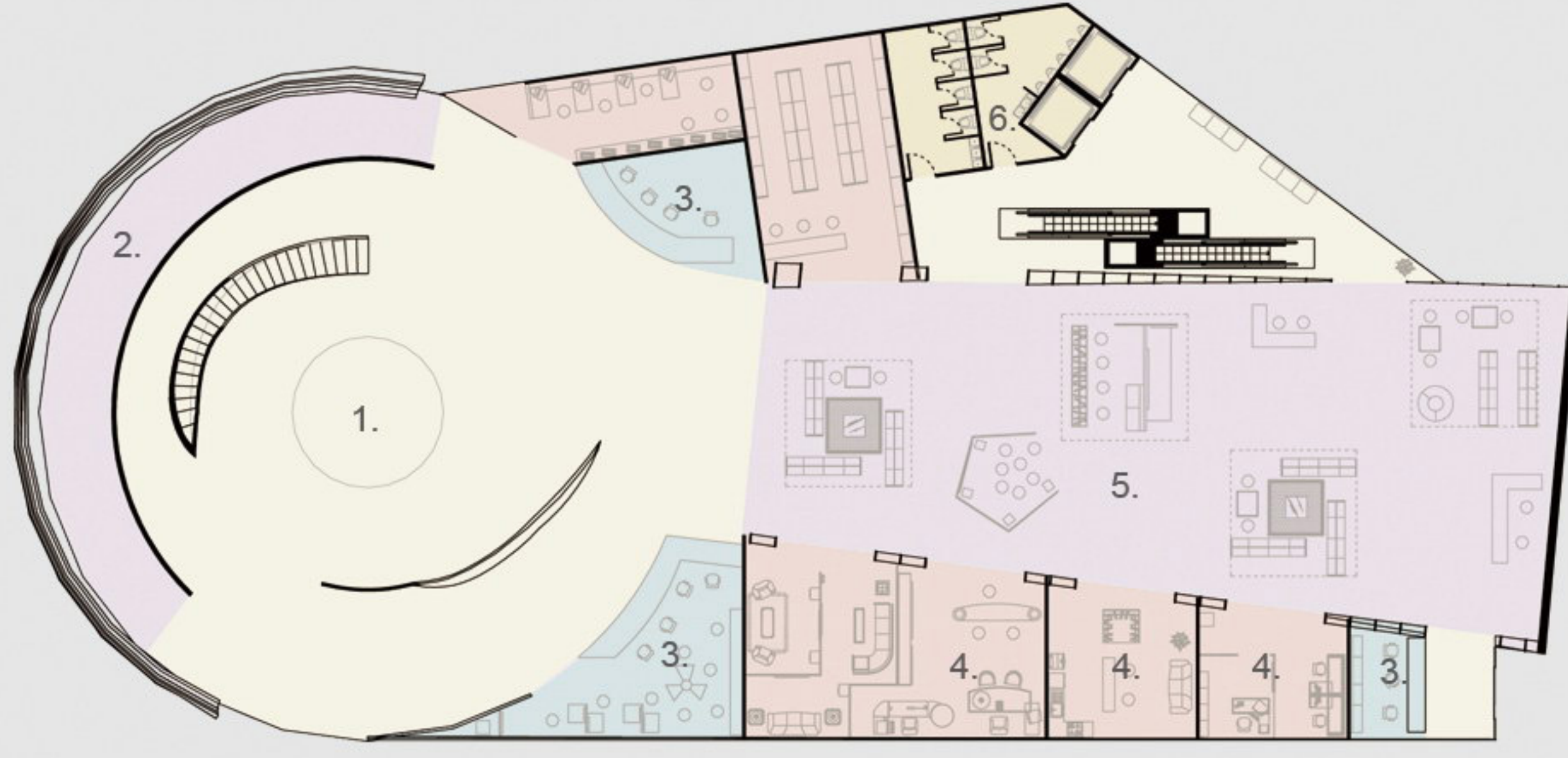
Mobius can handle the ball issue

Use 3DMax to create Mobius ball's model.  
Control their visual penetration's angle and direction.

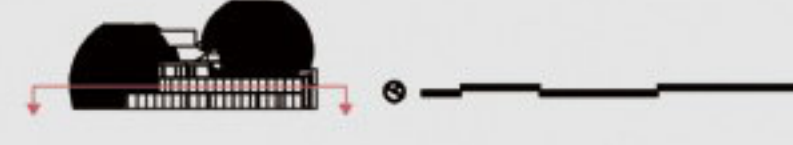
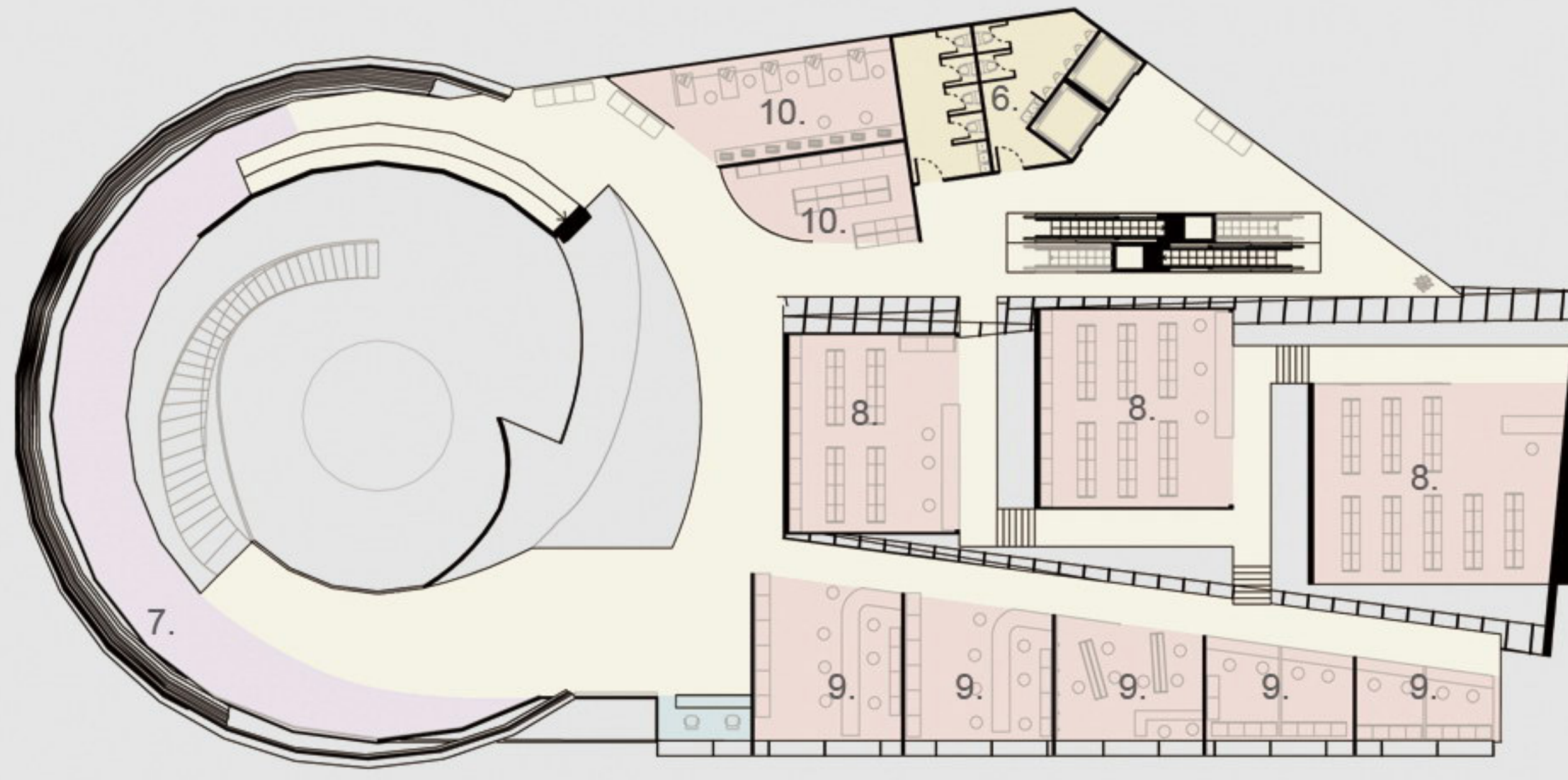




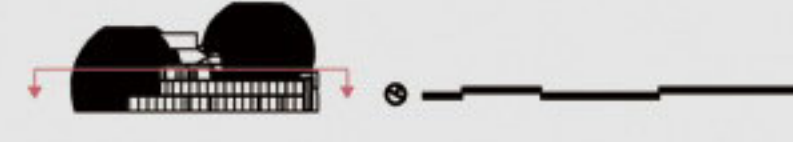
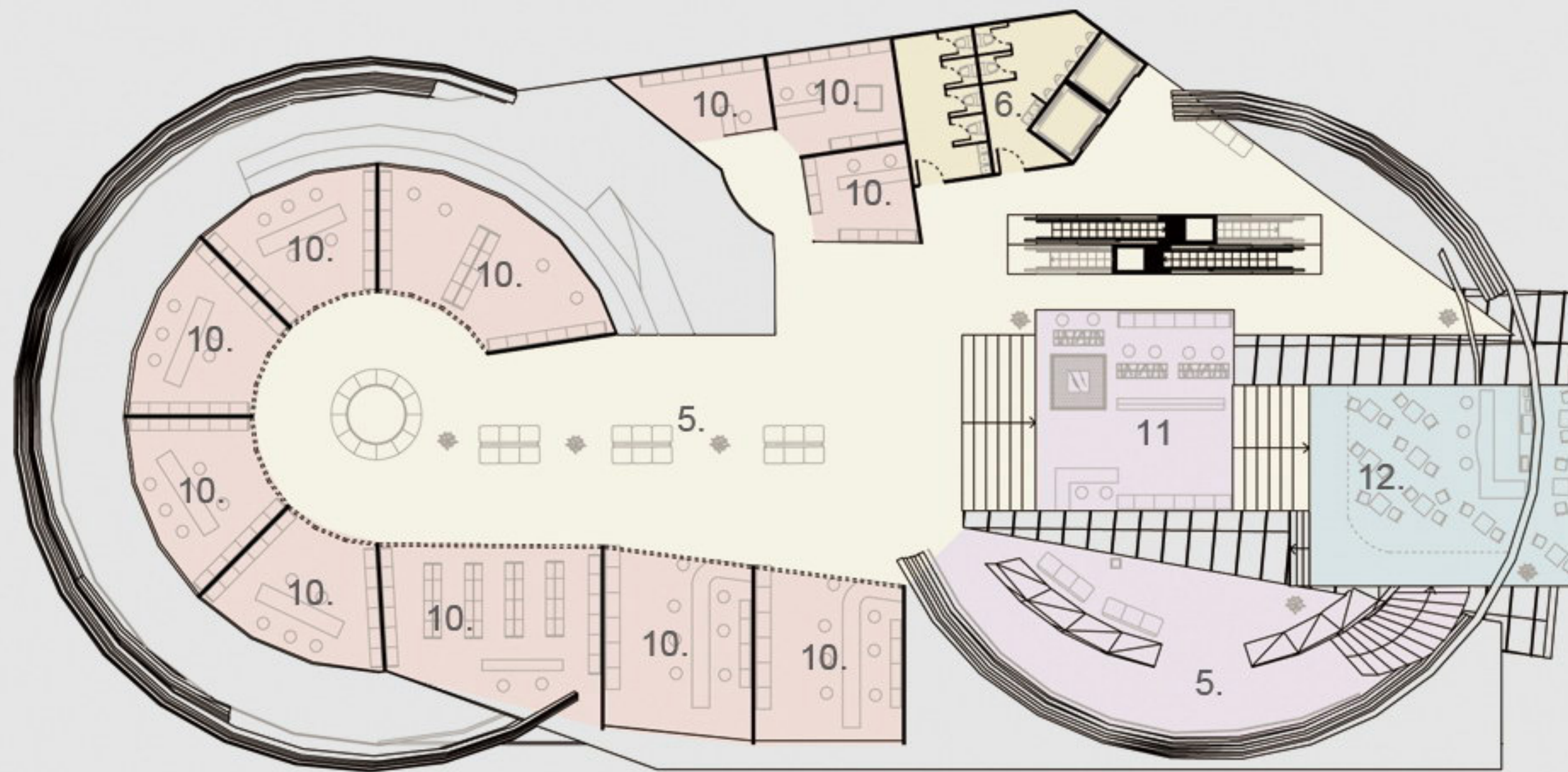
**Ground floor**



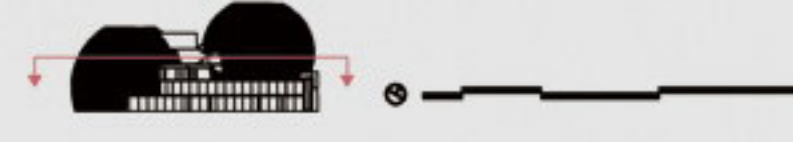
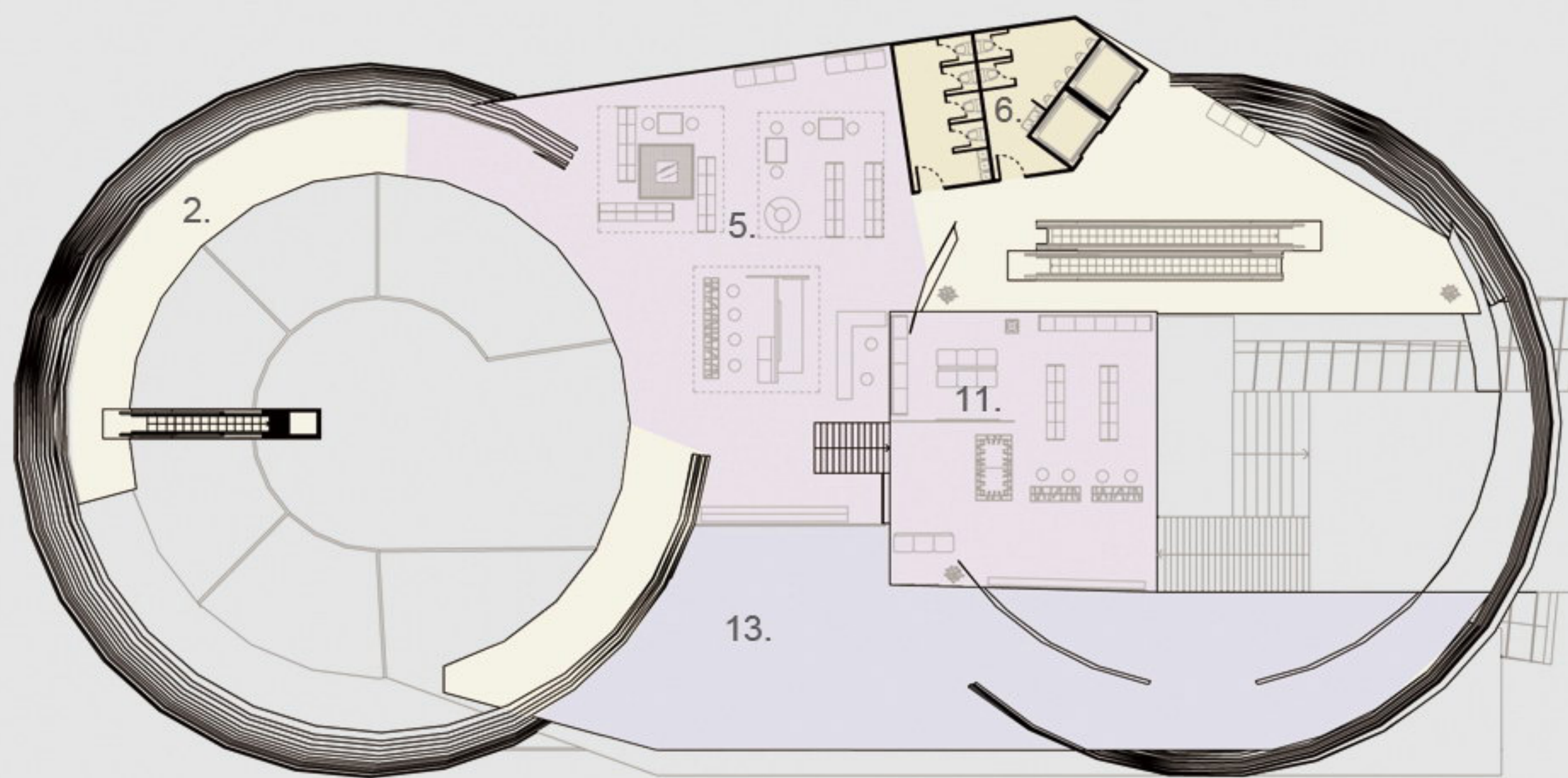
**Frist floor**



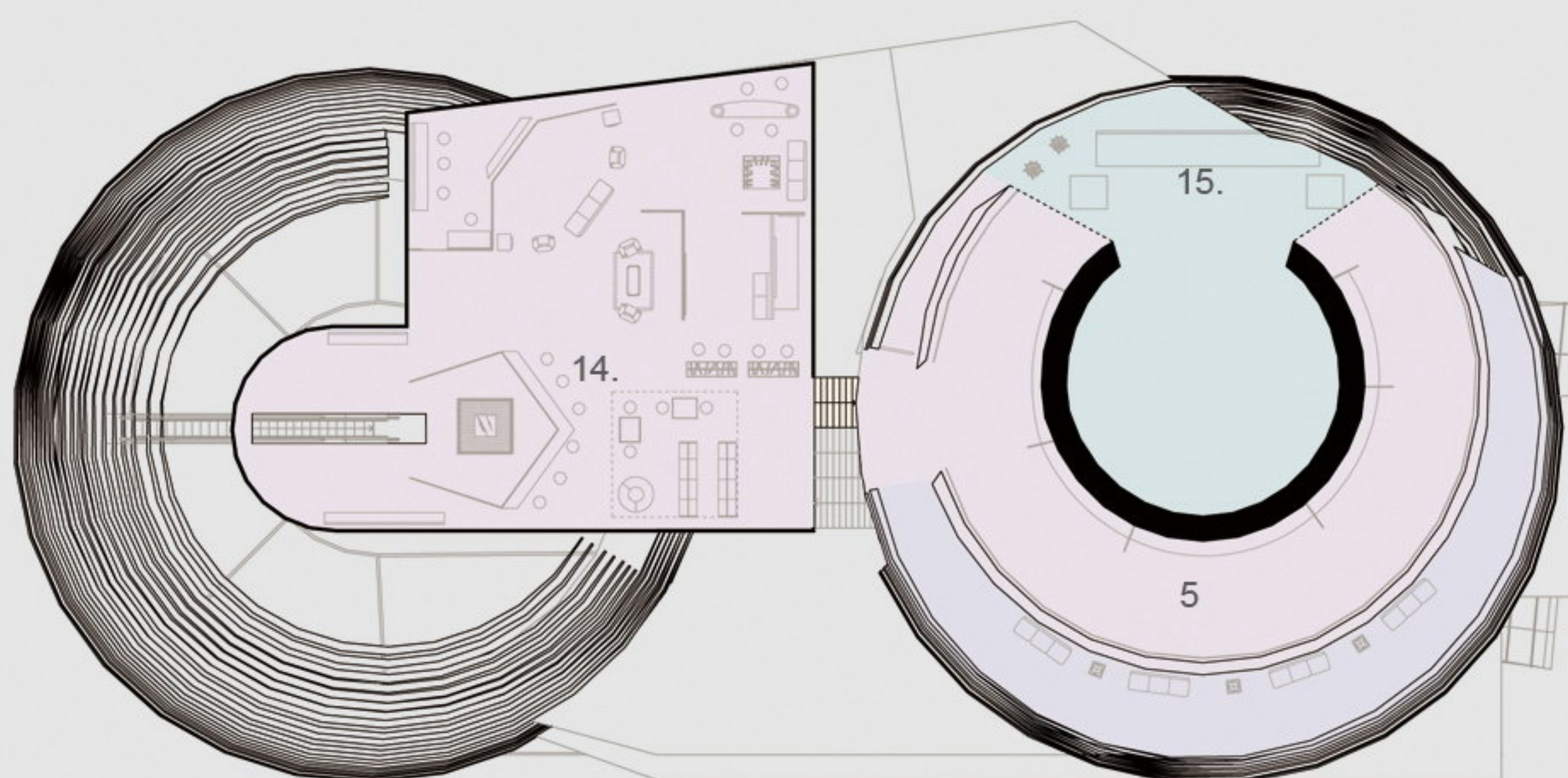
**Second floor**



**Third floor**



**Fourth floor**

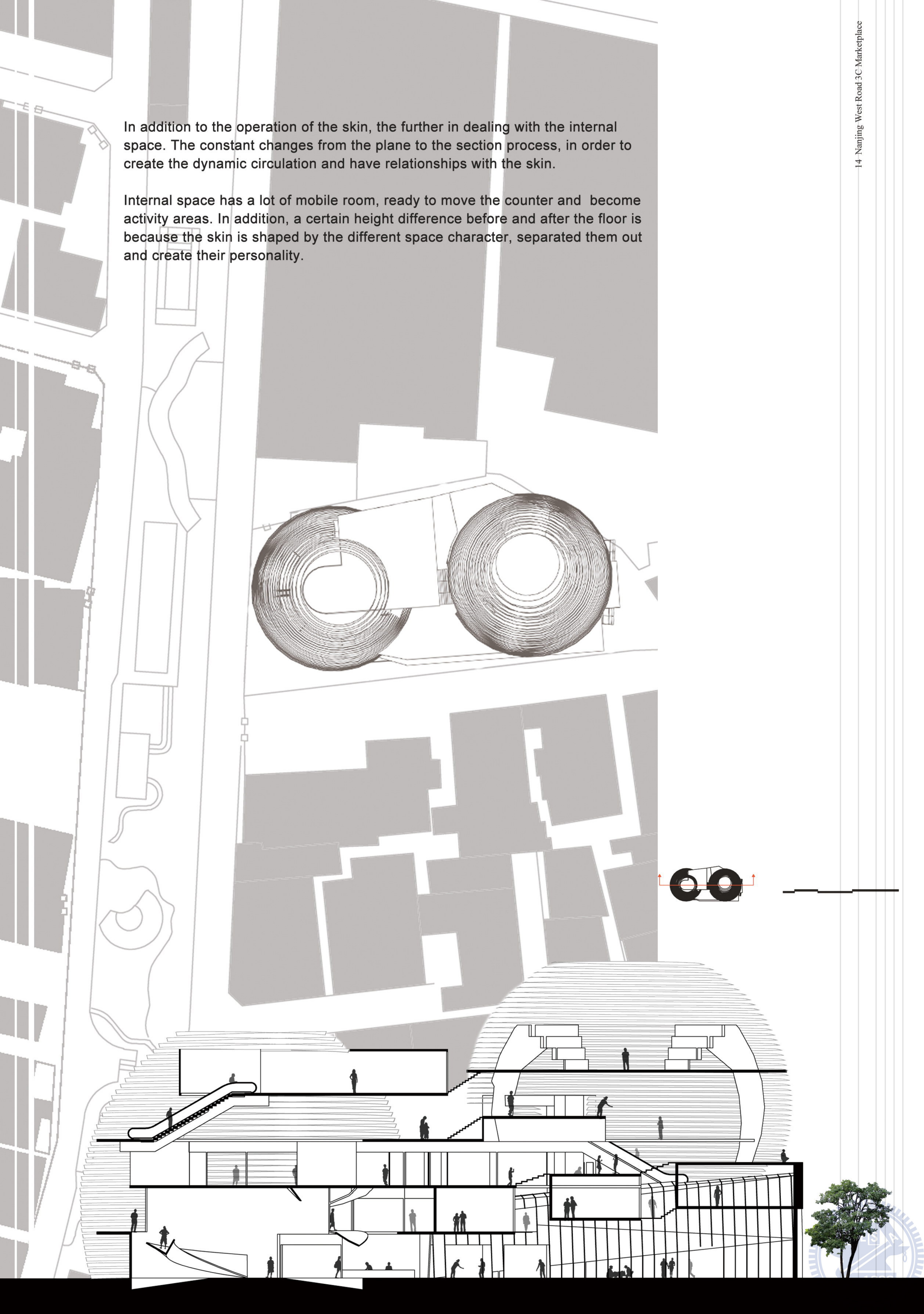


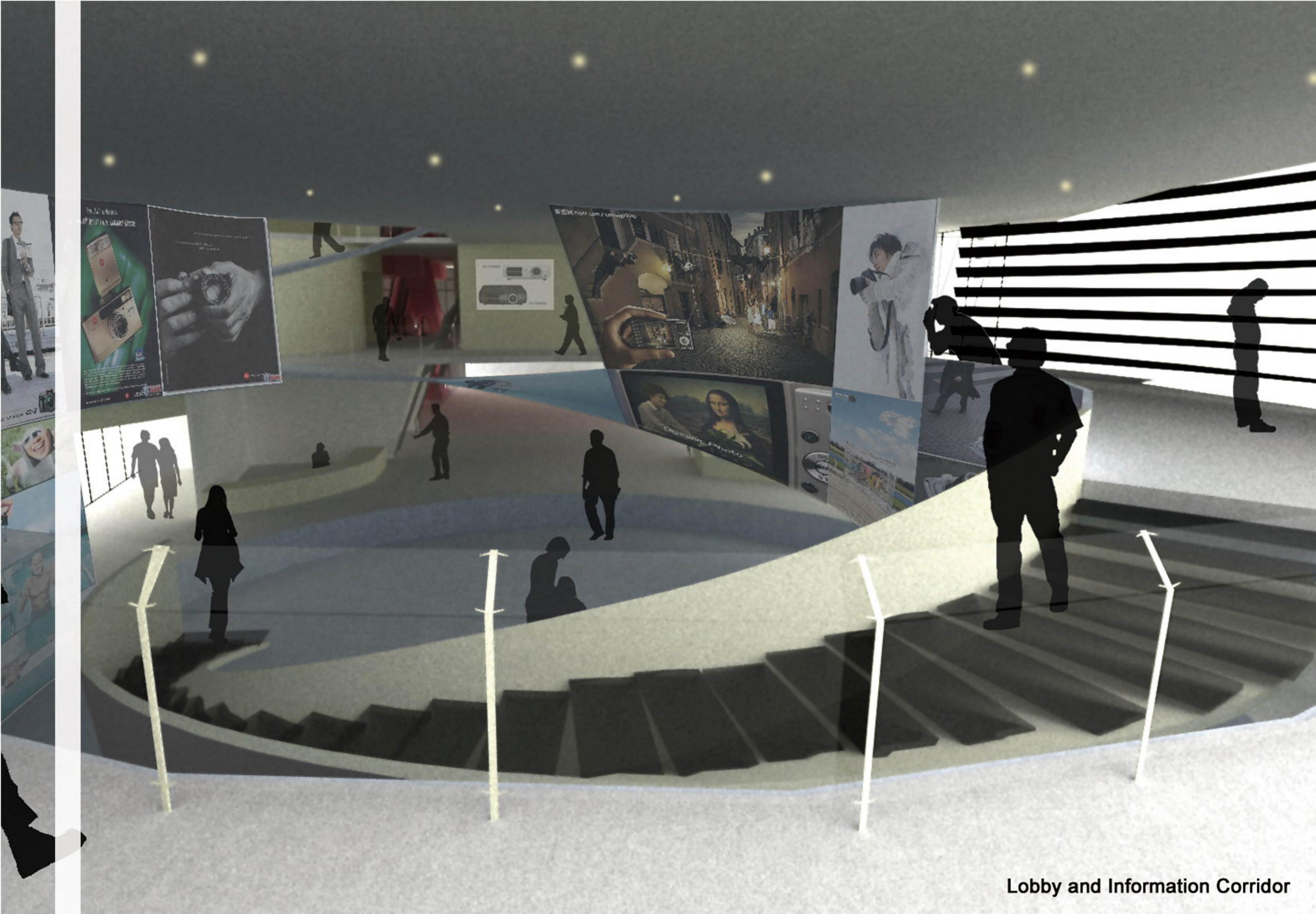
- 1. Lobby
- 2. Information Corridor
- 3. Service center
- 4. E-Life Store
- 5. Exhibition and Activity
- 6. Lavatory
- 7. Exhibition
- 8. Computer Store
- 9. Telecommunications Store
- 10. store
- 11. Exhibition Store
- 12. Coffee
- 13. Balcony
- 14. Projection Theatre Area
- 15. Lecture Hall



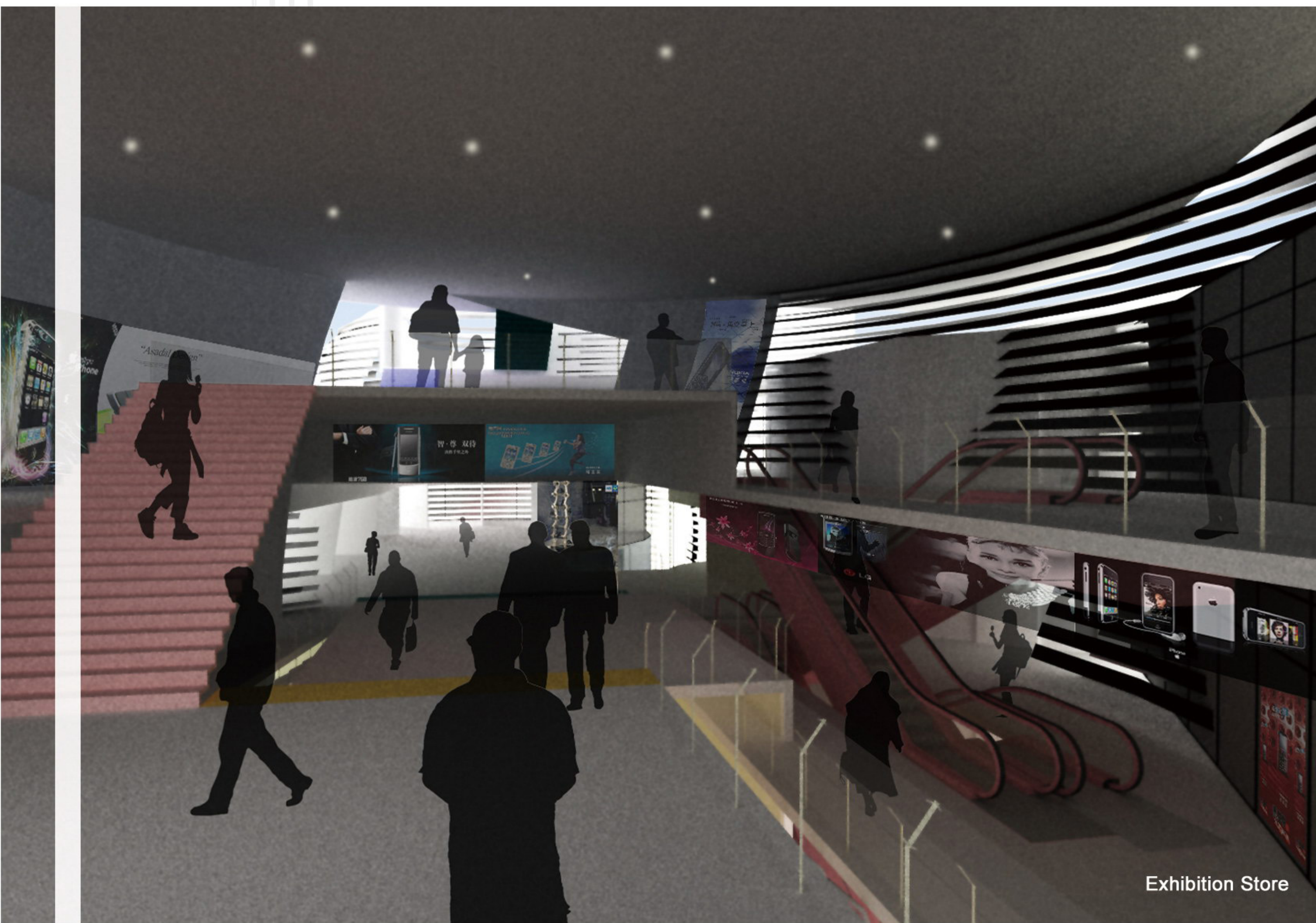
In addition to the operation of the skin, the further in dealing with the internal space. The constant changes from the plane to the section process, in order to create the dynamic circulation and have relationships with the skin.

Internal space has a lot of mobile room, ready to move the counter and become activity areas. In addition, a certain height difference before and after the floor is because the skin is shaped by the different space character, separated them out and create their personality.

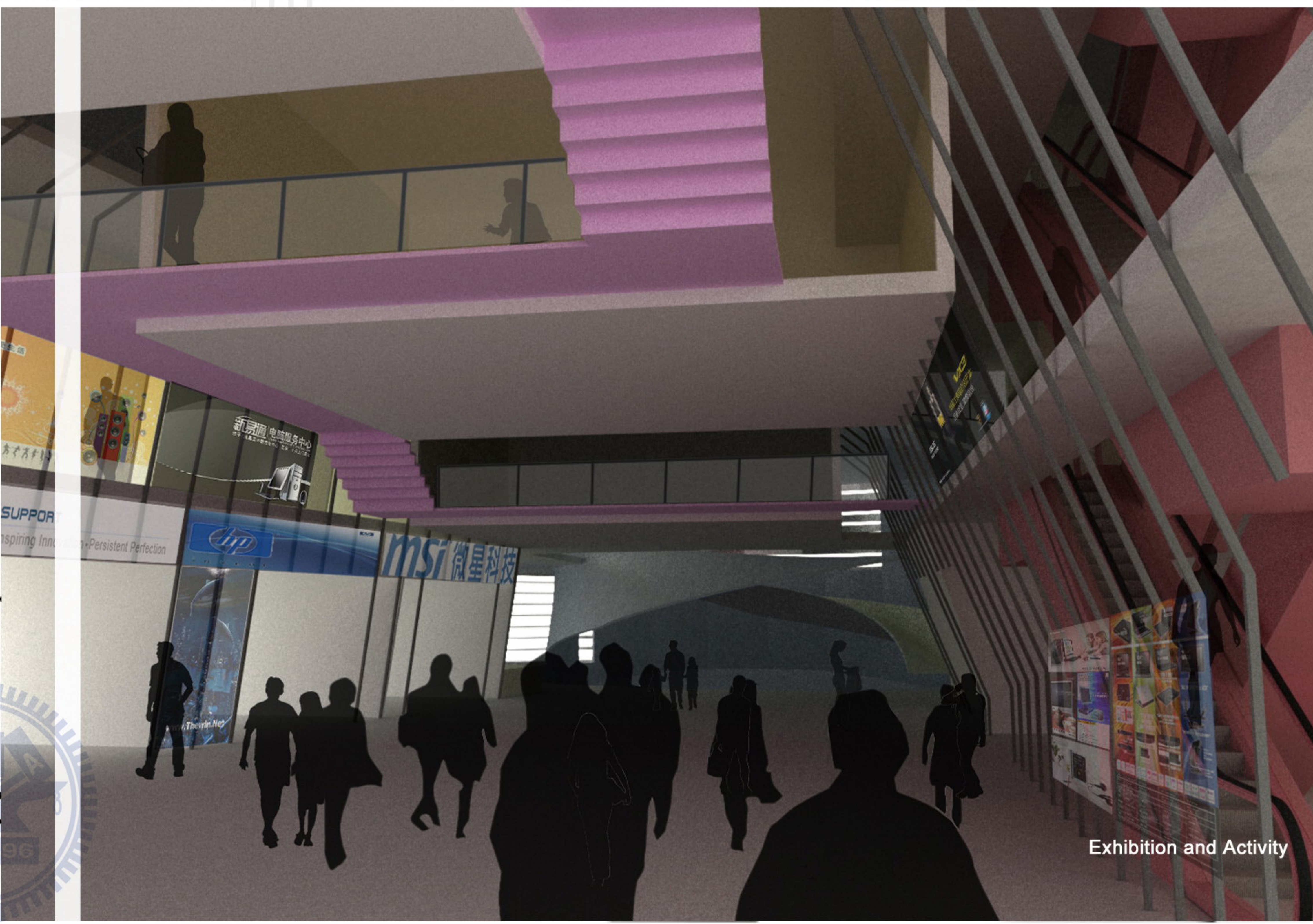




Lobby and Information Corridor



Exhibition Store



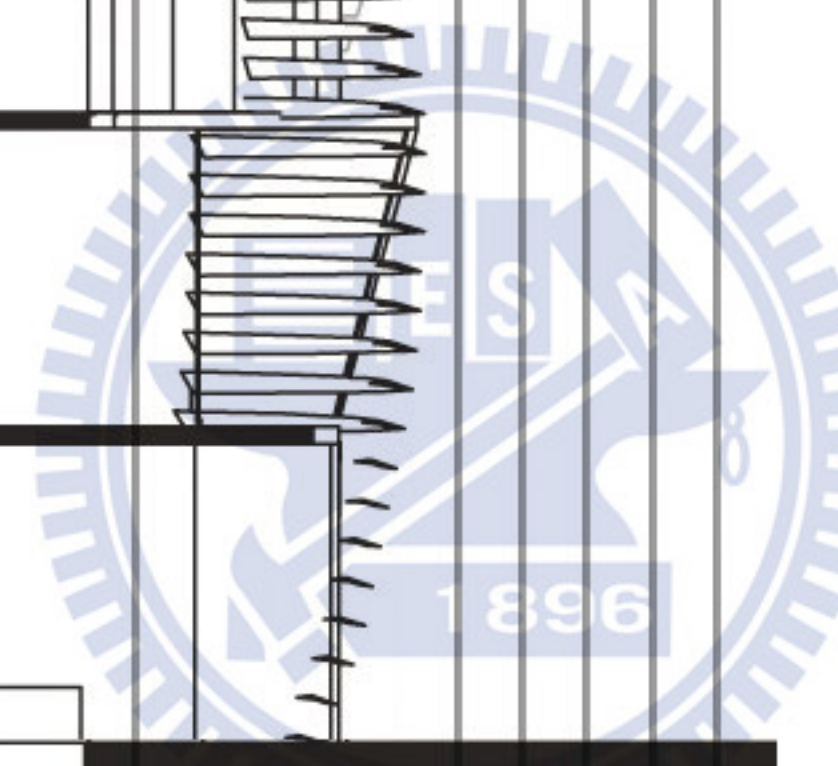
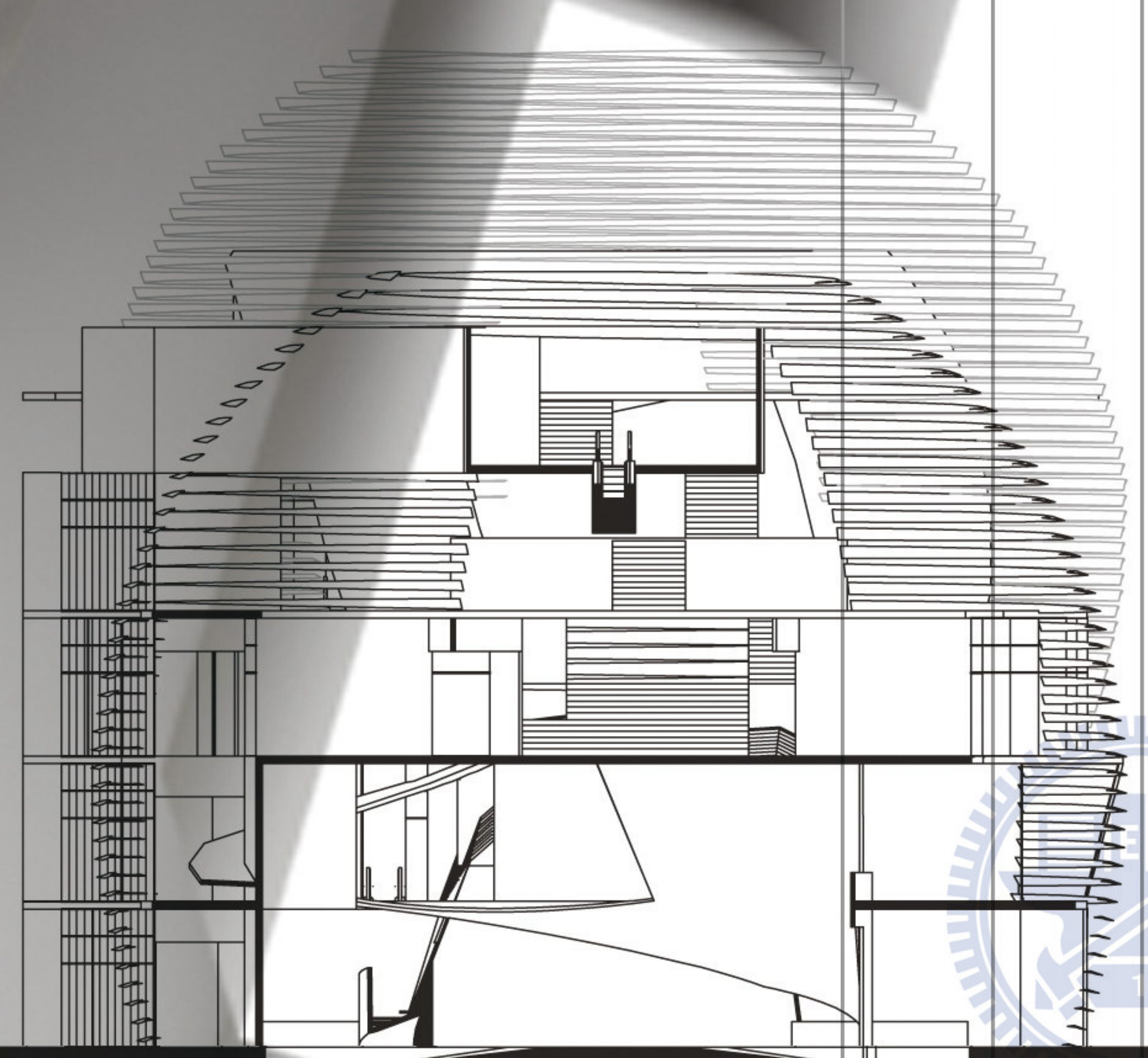
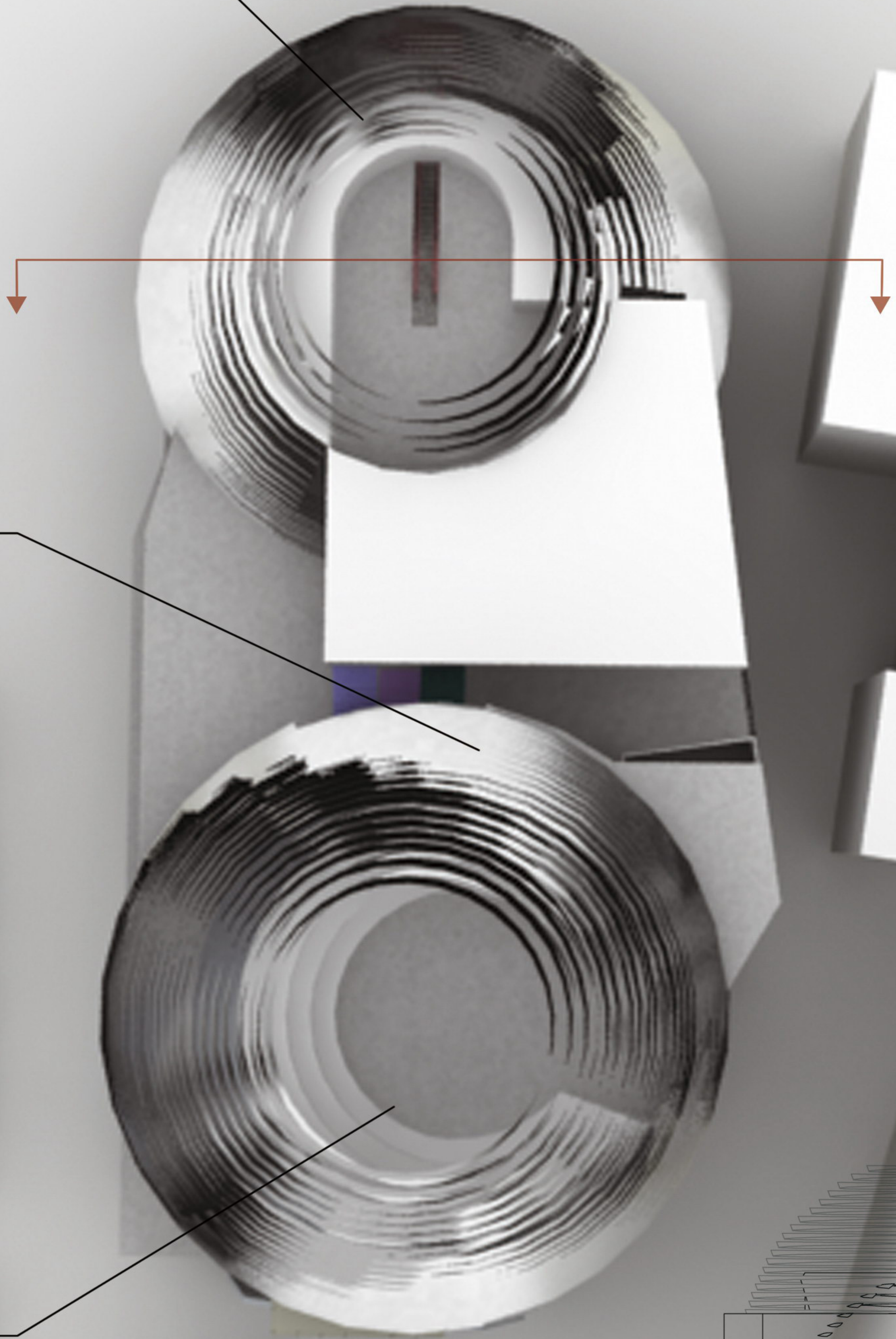
Exhibition and Activity





Originally to the maximum display space for the concept, the structure of the pig skin focus on trying to simulate pig's pattern. Divine pig's skin for the whole body of the most important element of building. Appearance isn't lovable but very shocking.

The second amendment is to consider the base conditions, the skin into abstract expression, and re-order concept. Let pig's skin to be sometimes a visual appearance, and the divine pig can be completely view on certain angle. Another way, I focus on plan and section, and integrate into the skin. Design becomes complete between inside and outside.



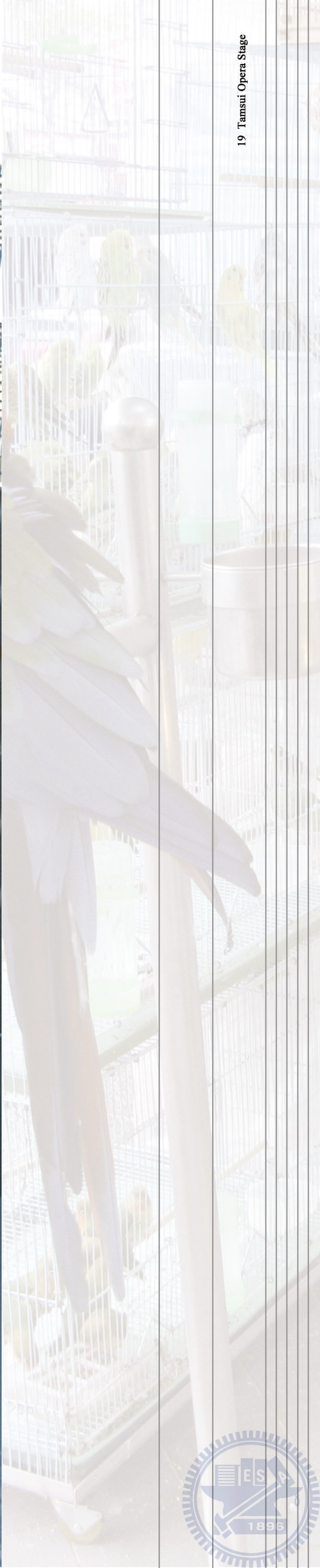
# Tamsui Opera Stage

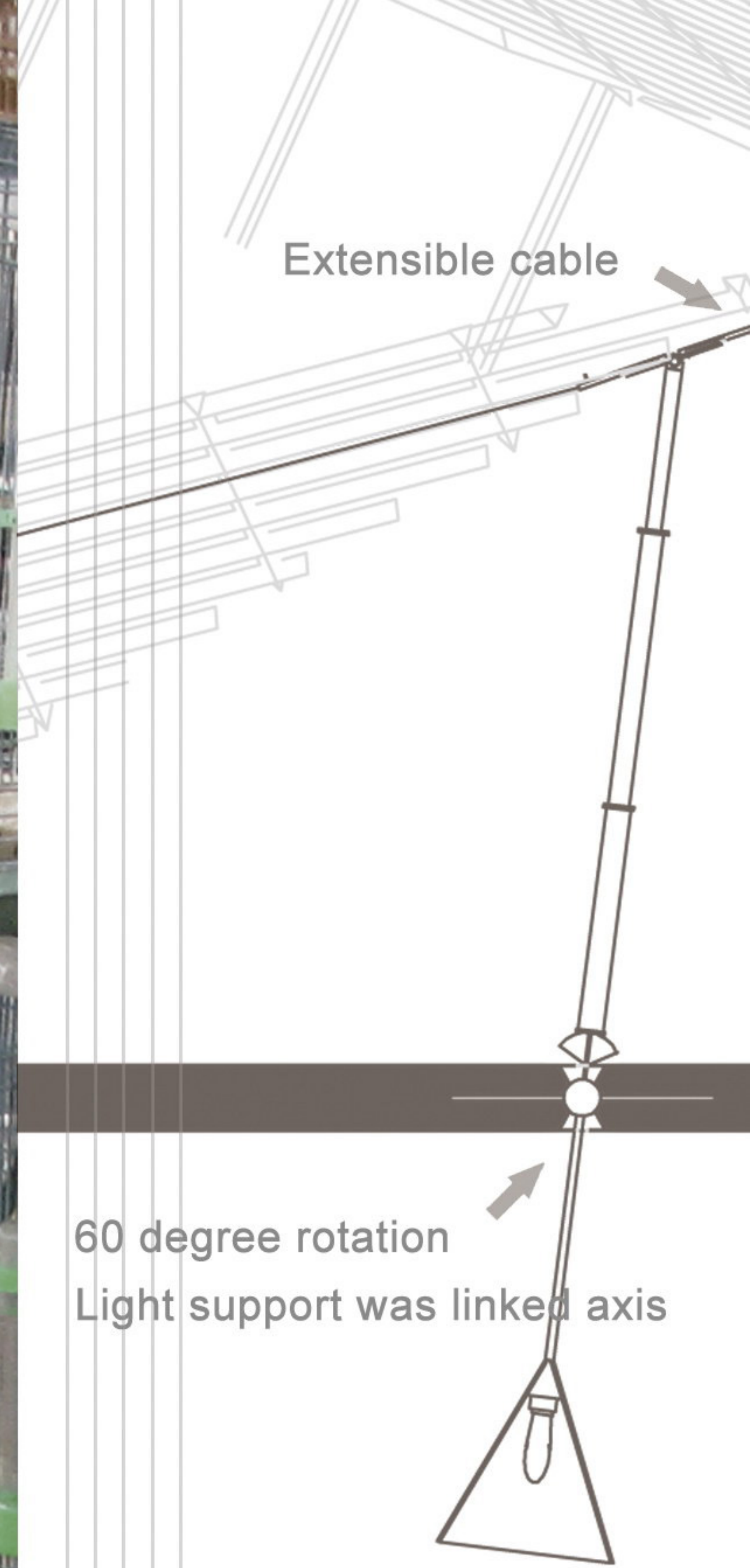
Taiwan's cultural things to transform

舞台是一個“框”，觀眾看框內的戲裡人生

表演者就如同籠中鳥，欲想飛出籠外的心態，超過舞臺本身的限制去表演，跳出那個框

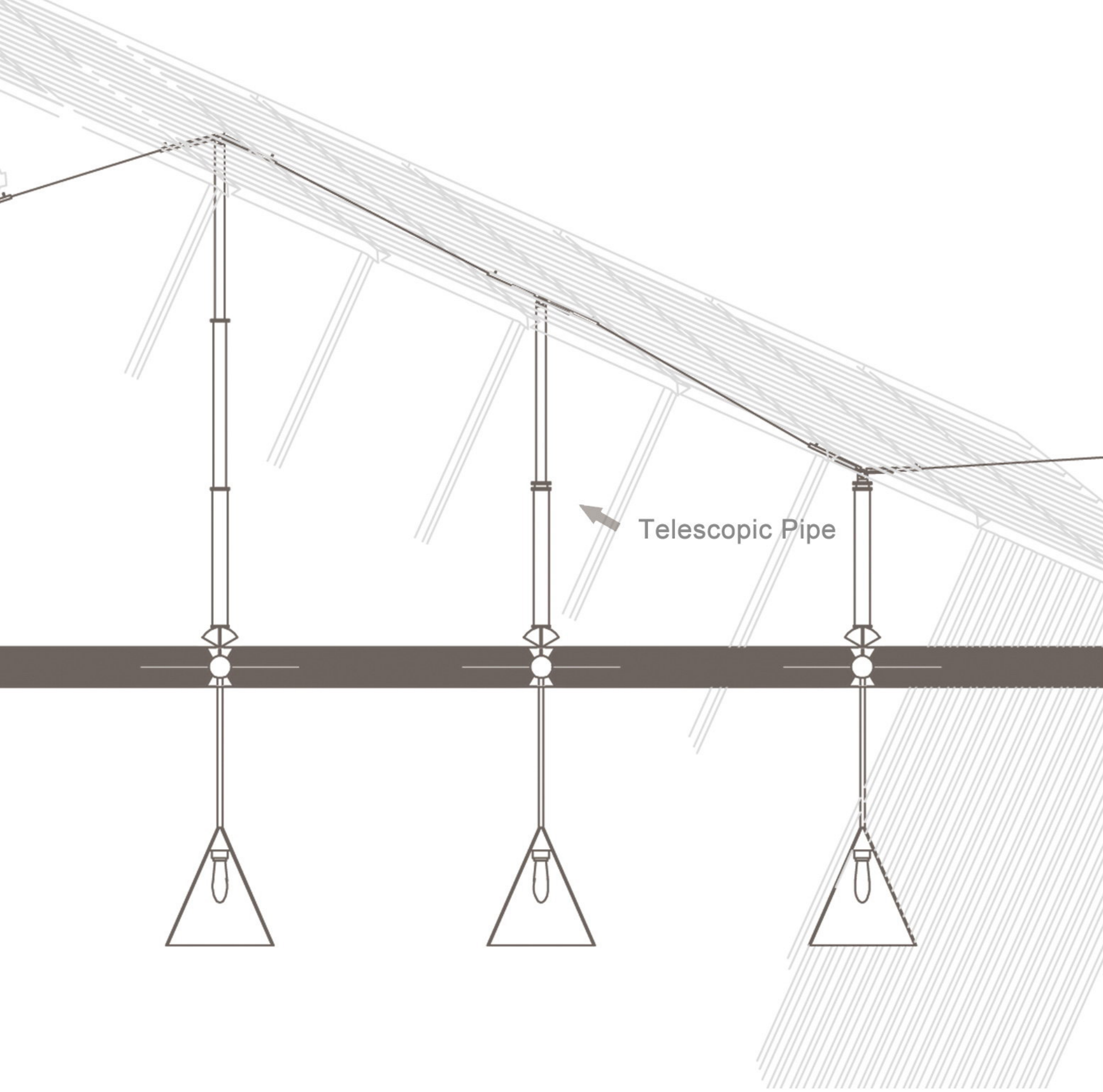






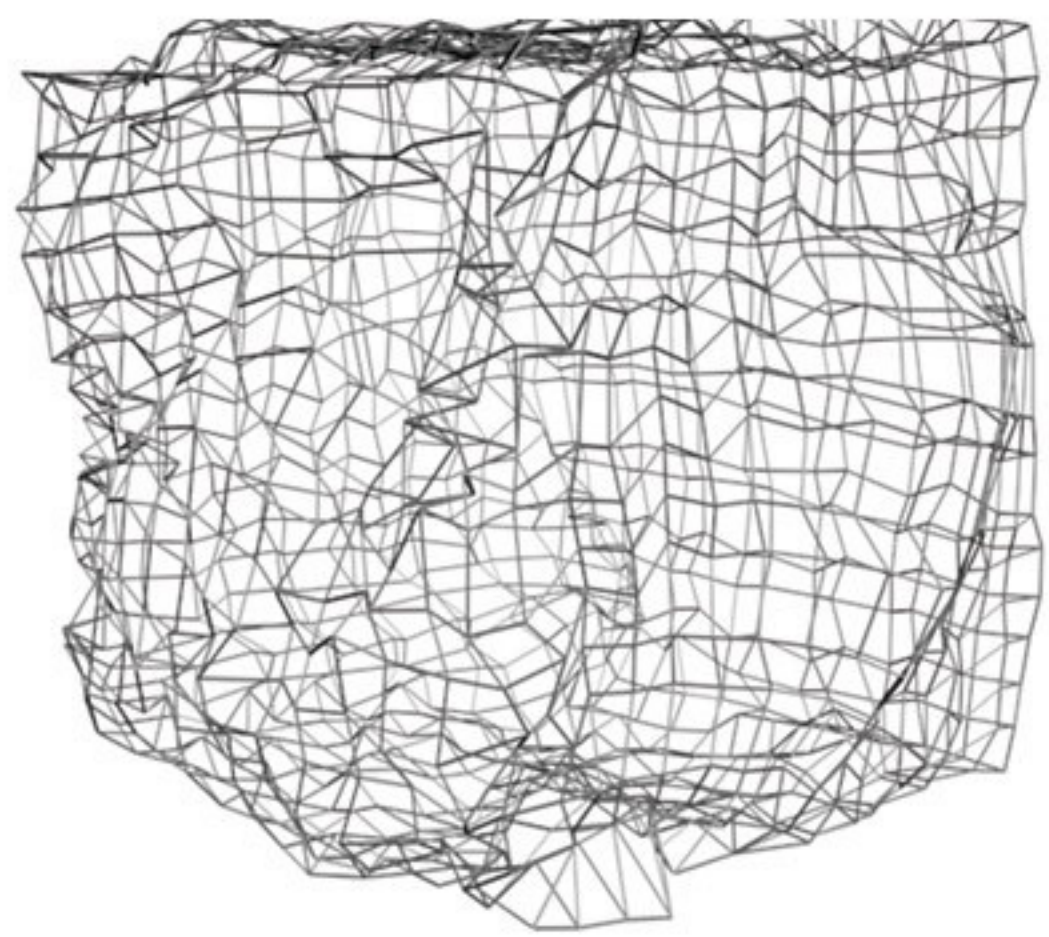
According to travel photos, find a hidden corner of Bird Street in the city. Full of noisy birds and voices of the street, I can not be avoided. As with the scene, that is, groups of cage, colorful as listed in the street, inside the bird like at any time, opened the cage waiting for that moment, than want to spread their wings. This is like the actors alive on the stage. That is, the stage that you want to escape the box, will convey the shock of drama to the audience's heart

Stage is a "frame", and audiences watch frame of opera life.

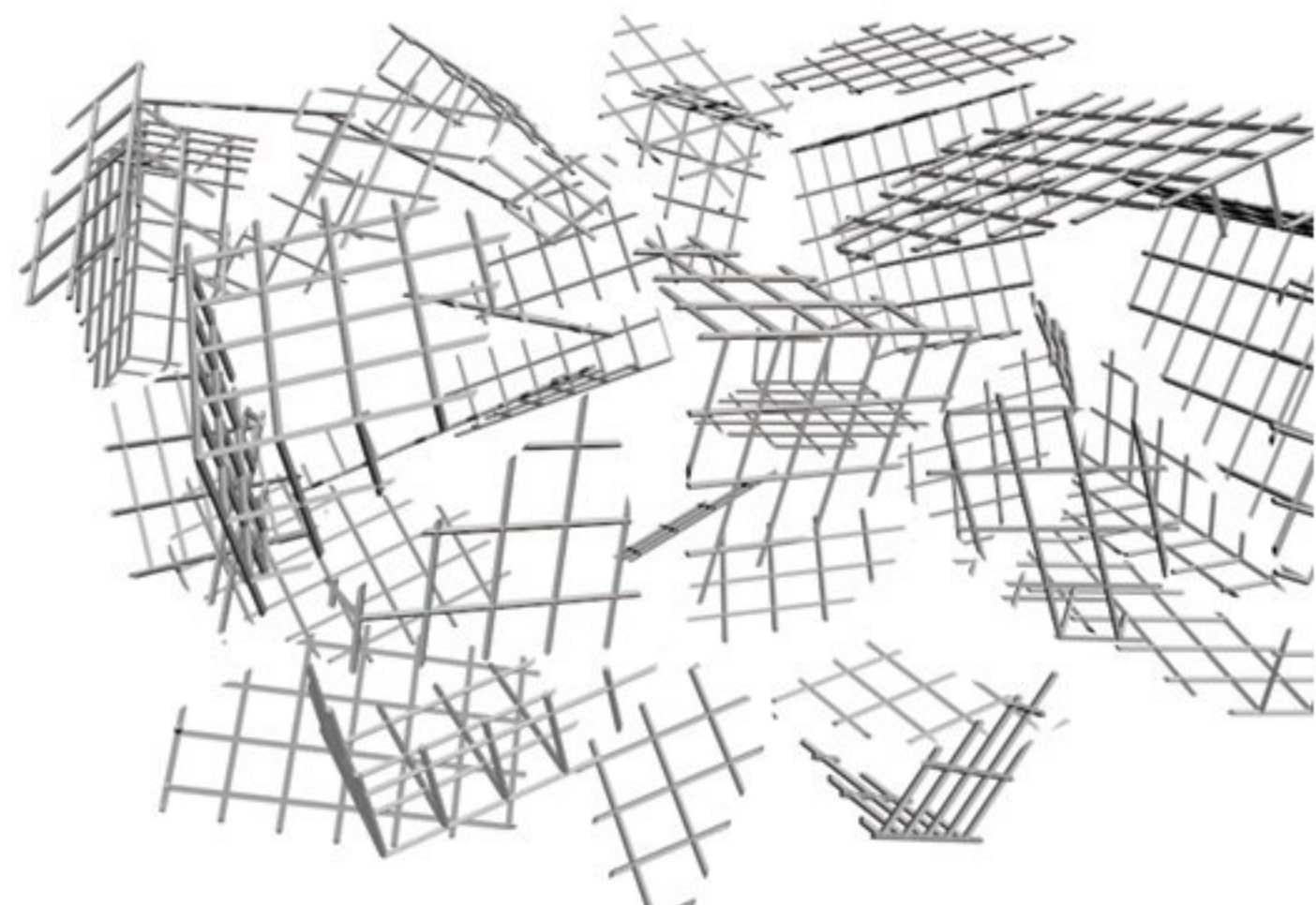


**Birdcage's deformation simulation**

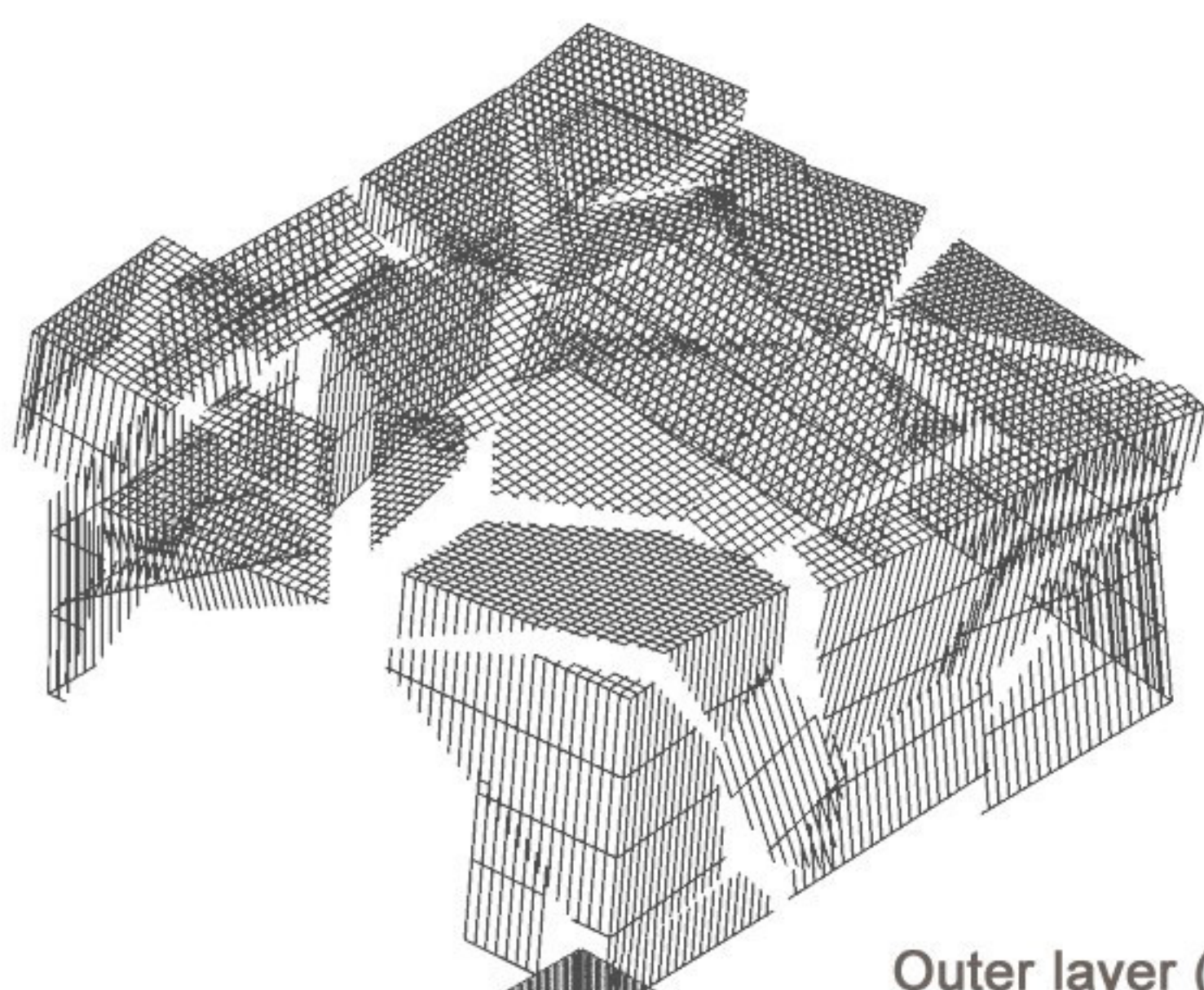
Reactor (Dynamic response)  
3DMAX



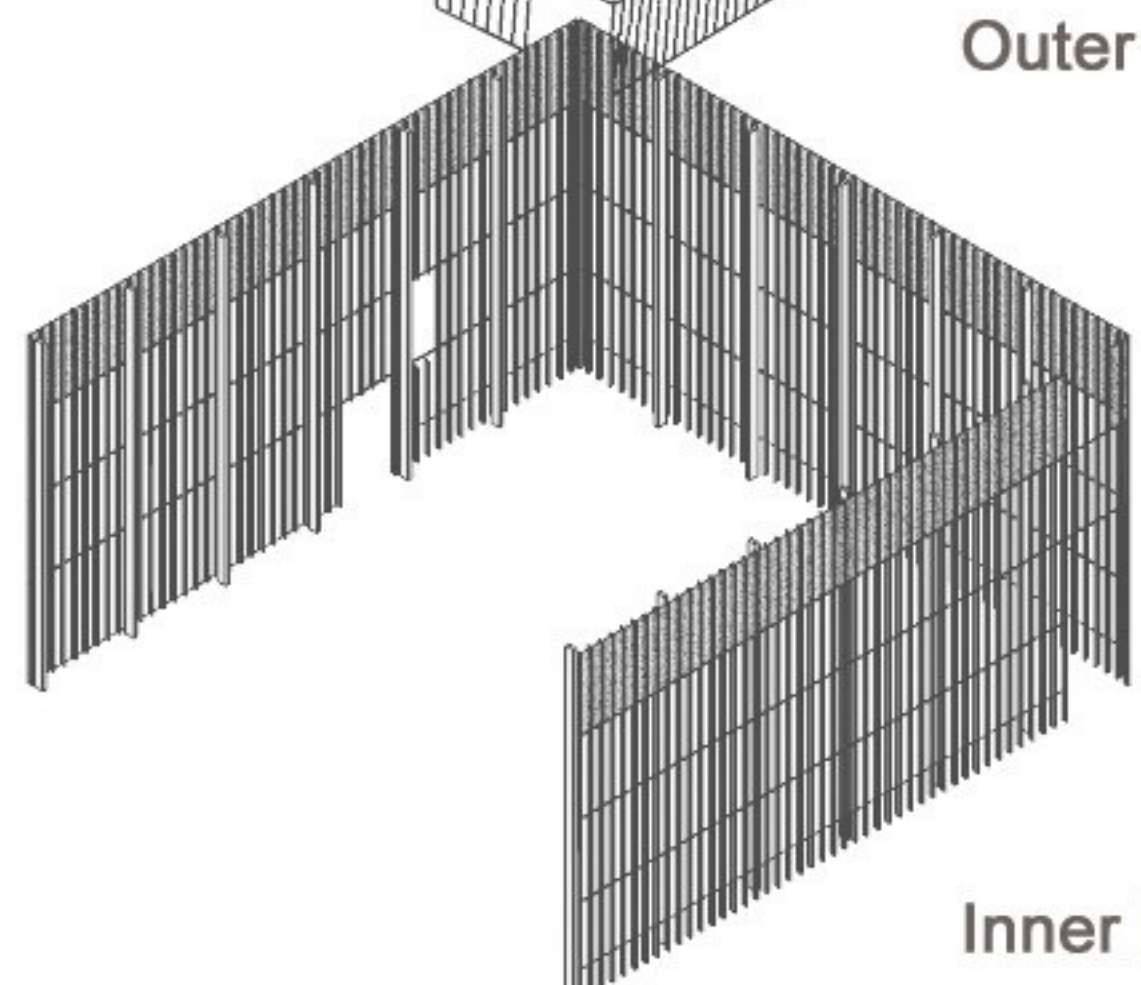
RayFire (Simulation of fragmentation)  
3DMAX



**Inner and outer relations**

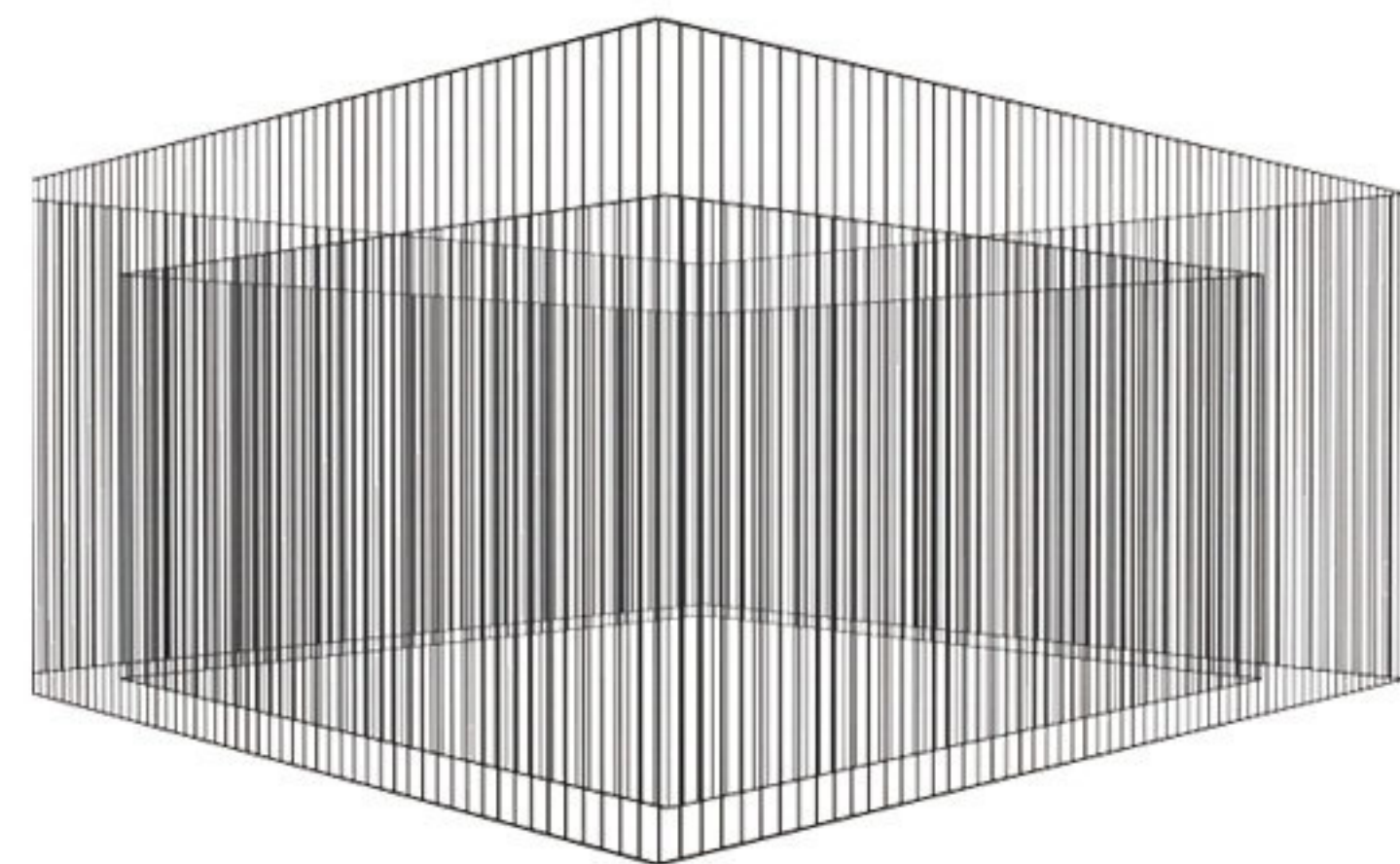


Outer layer (lines)

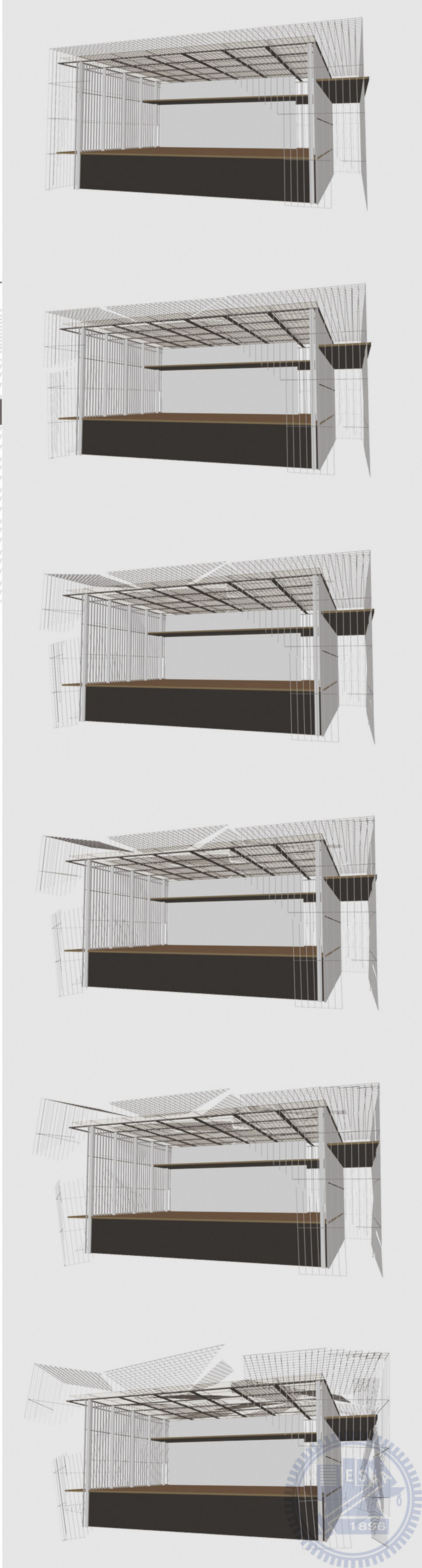
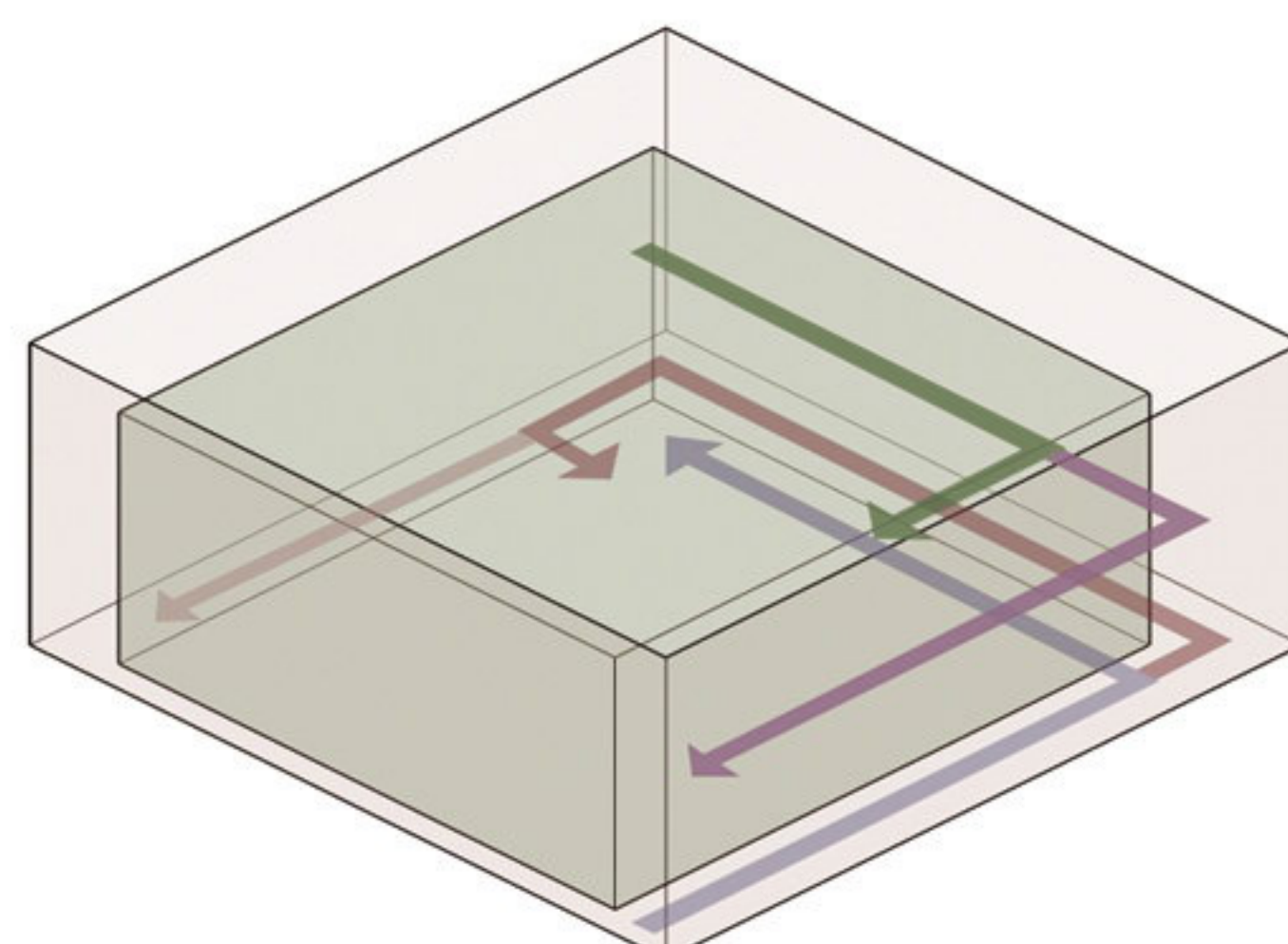


Inner layer (sheet)

**Double effect**



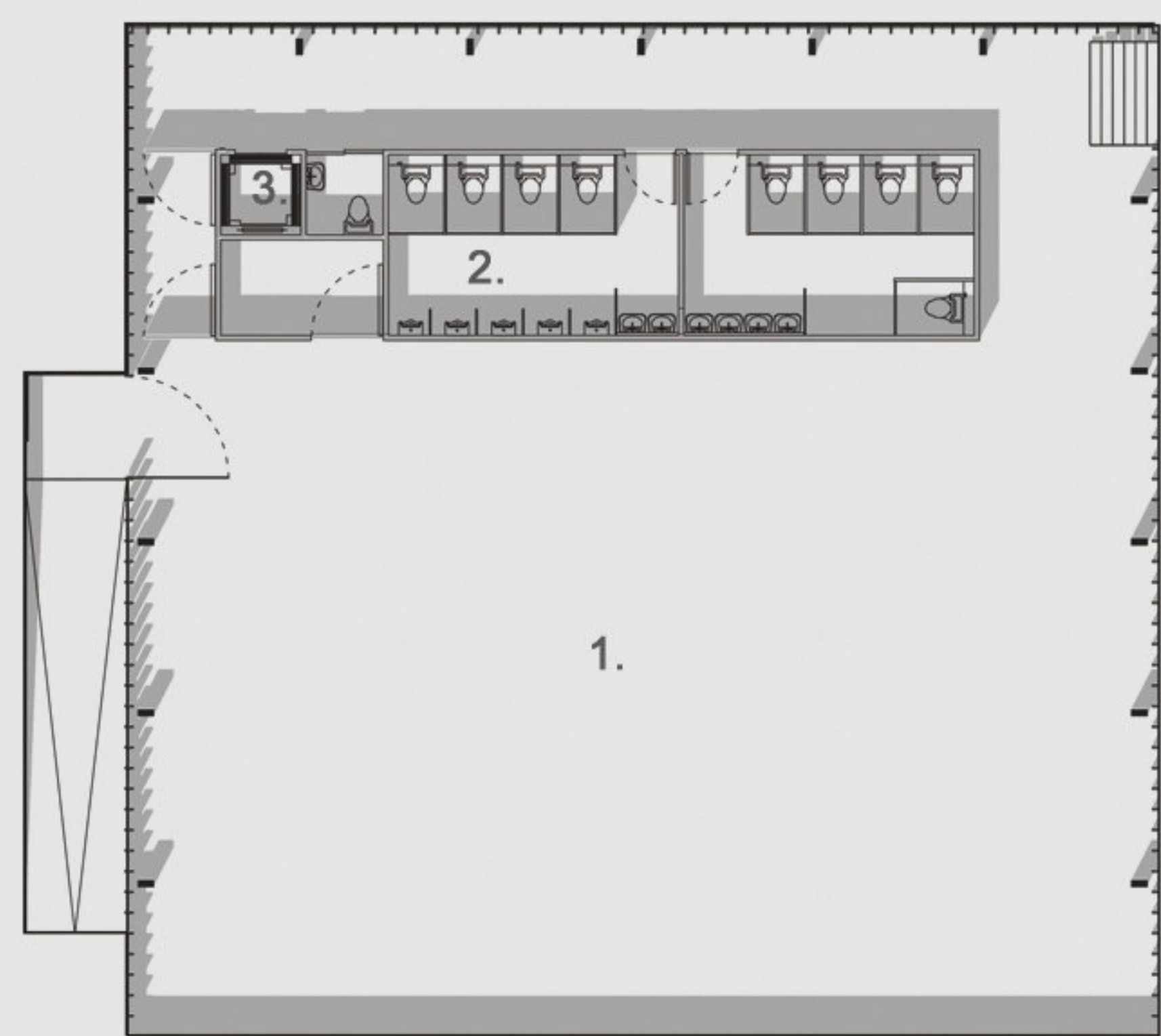
**Deliberately circulation**



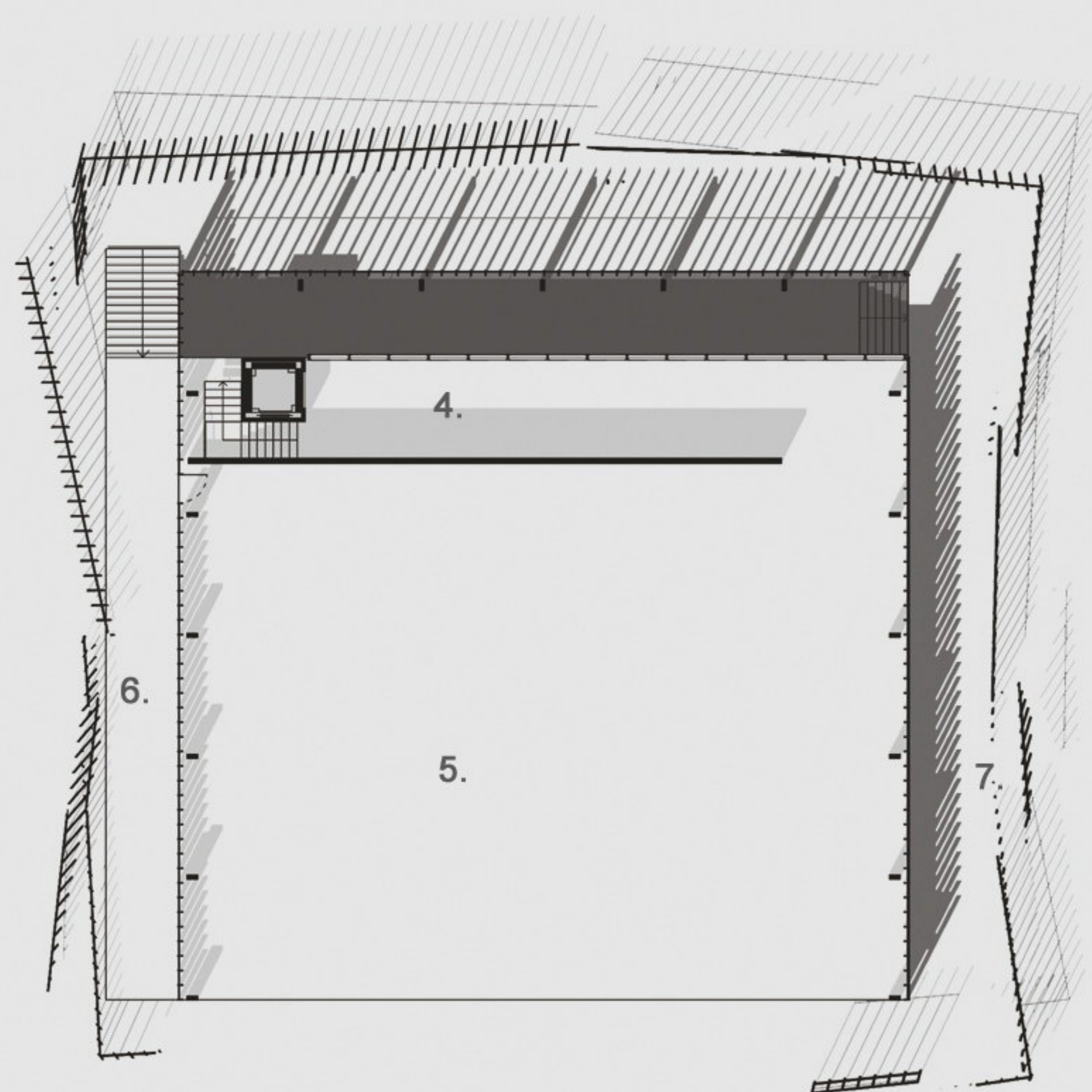
Closing the outer stage's cortex, when start performing will open, with the lighting control, linked changes in the outer cortex. In response to each different lighting needs, there are countless types of changes the cortex.

In addition, the internal circulation is circleing corridor, and purpose to people walking along the middle of double-skin, to feel every change in a corridor of the grille.

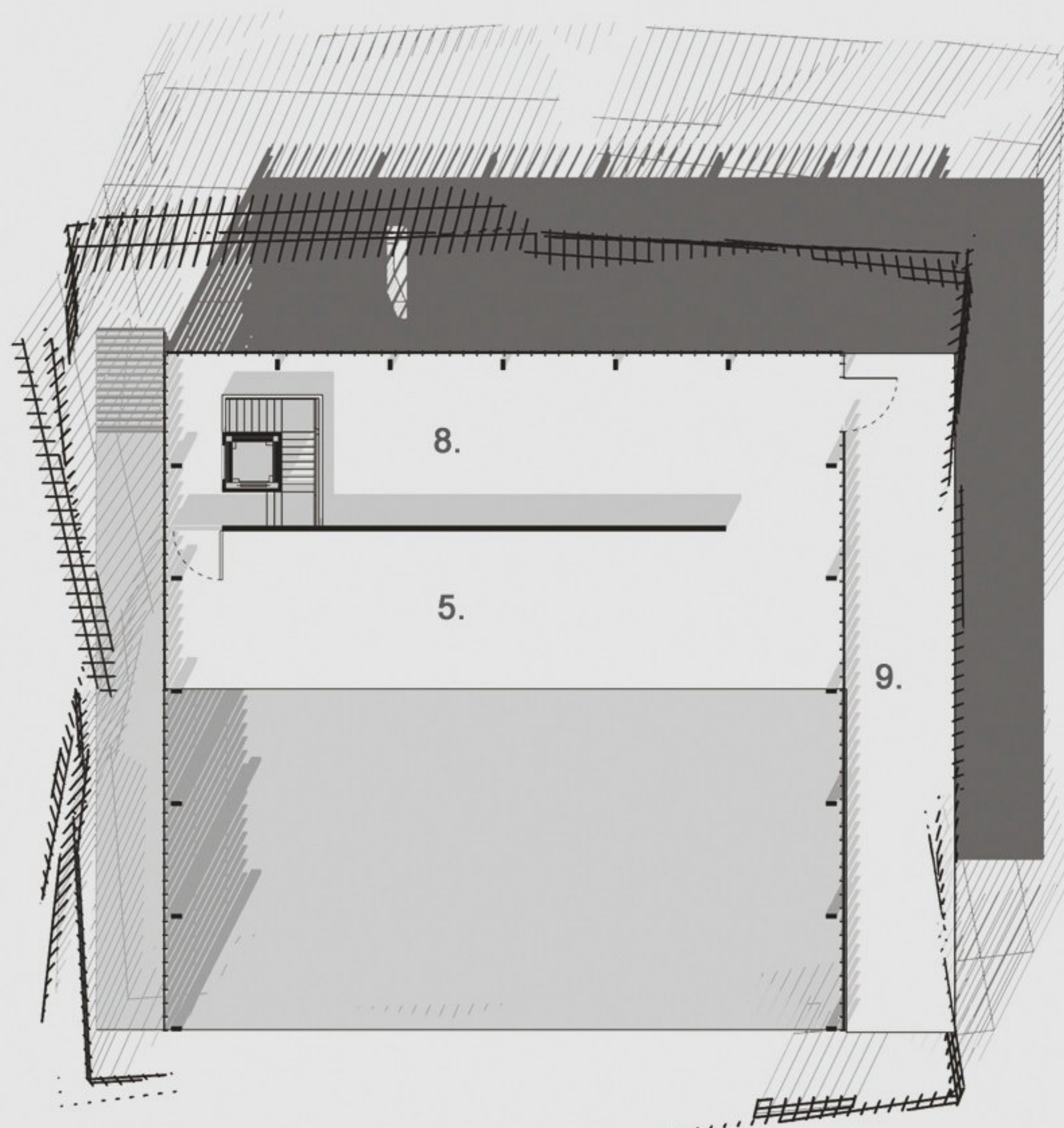




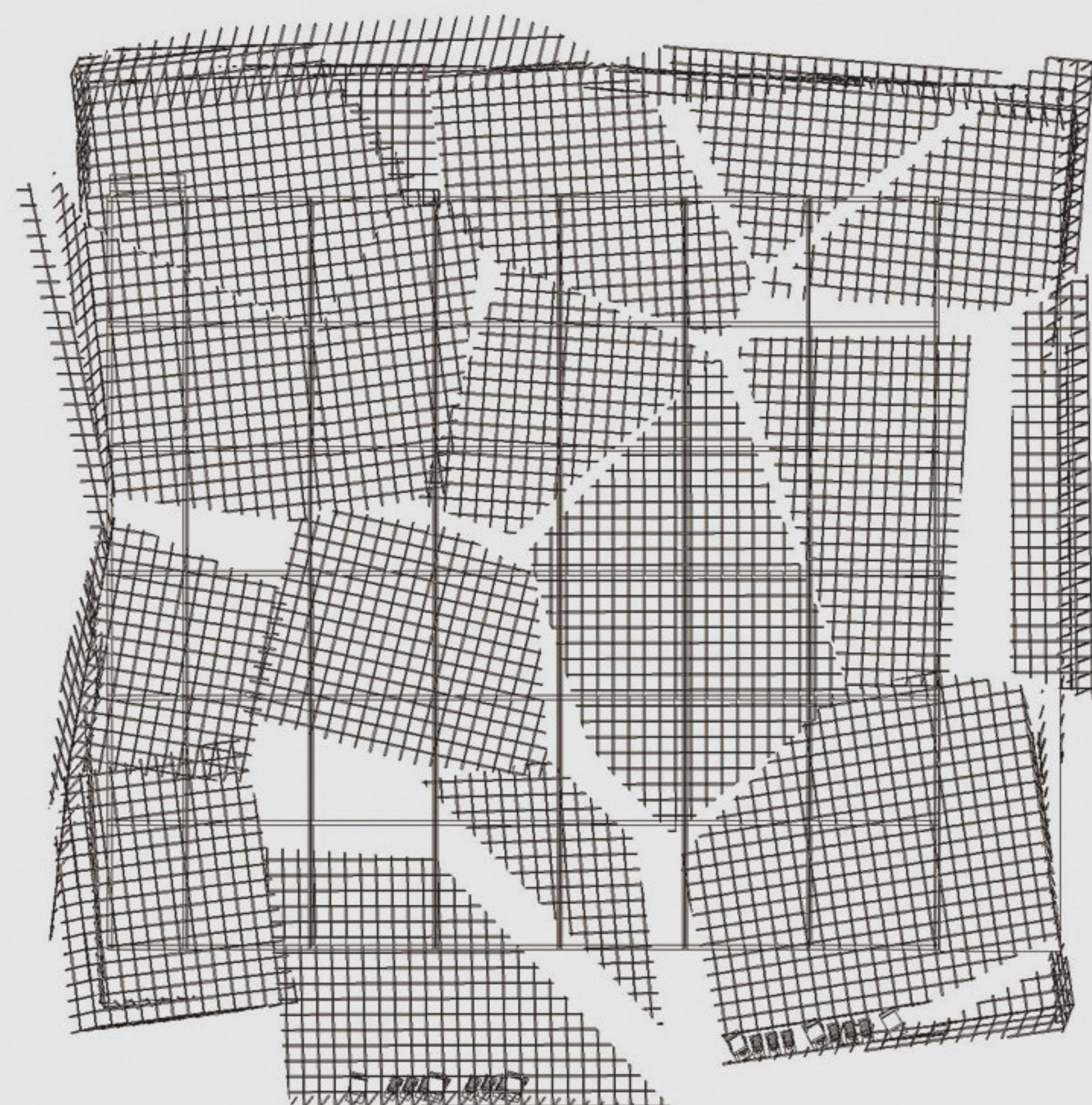
Ground floor



First floor

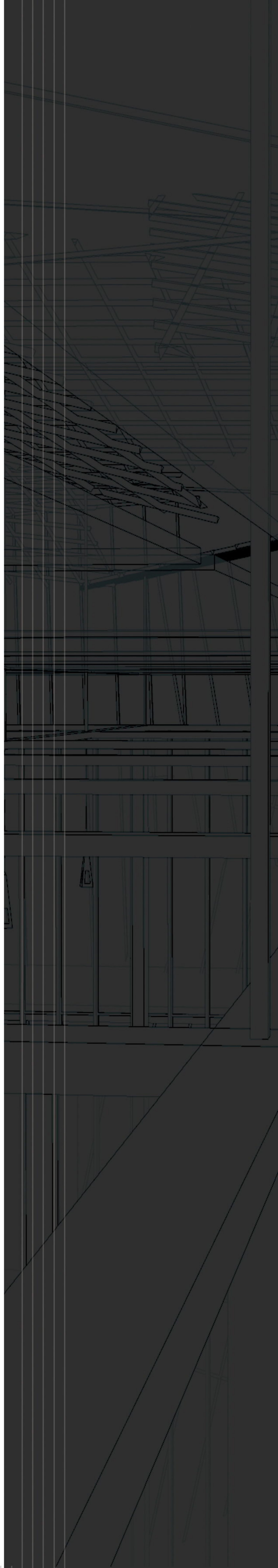


Second floor



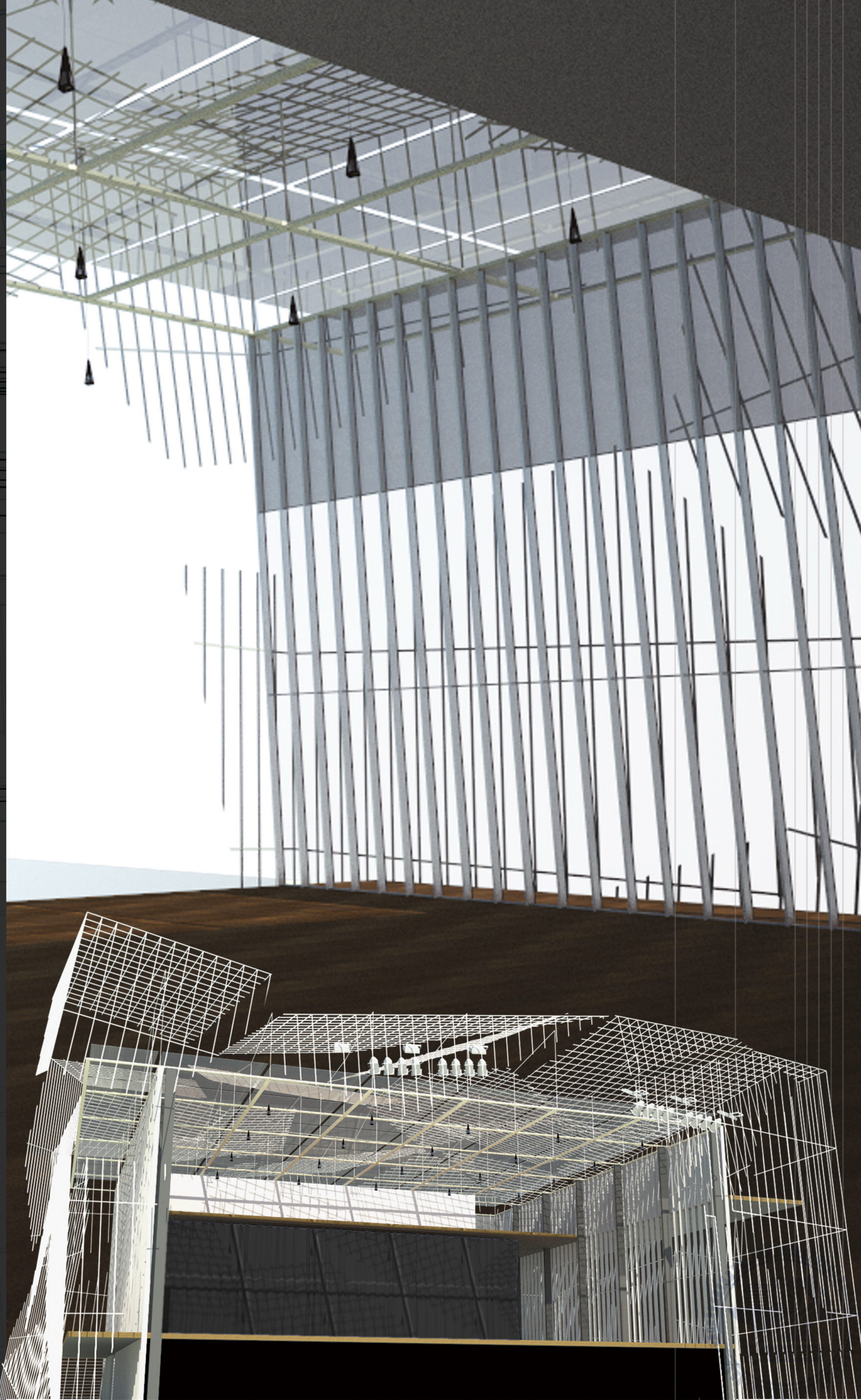
- 1. Rehearsal areas, equipment temporary stacking areas
- 2. Lavatory
- 3. Elevator
- 4. Exhibition space
- 5. Stage
- 6. Backcourt
- 7. Corridor
- 8. Exhibition space
- 9. Balcony







In this design, "like or not" is more important than the logical deduction. Skip careful logical thinking part of debate, from a very simple concept to start design. Supporting the use of computers to want to present the appearance shown. In order to make the concept more carchitecture, we must consider the details. For example, the relationship between surface and interior space, or opening and closing of the cortex and performance relationship. Eventually all integrated in the original conception, as a seemingly simple but rigorous design case.

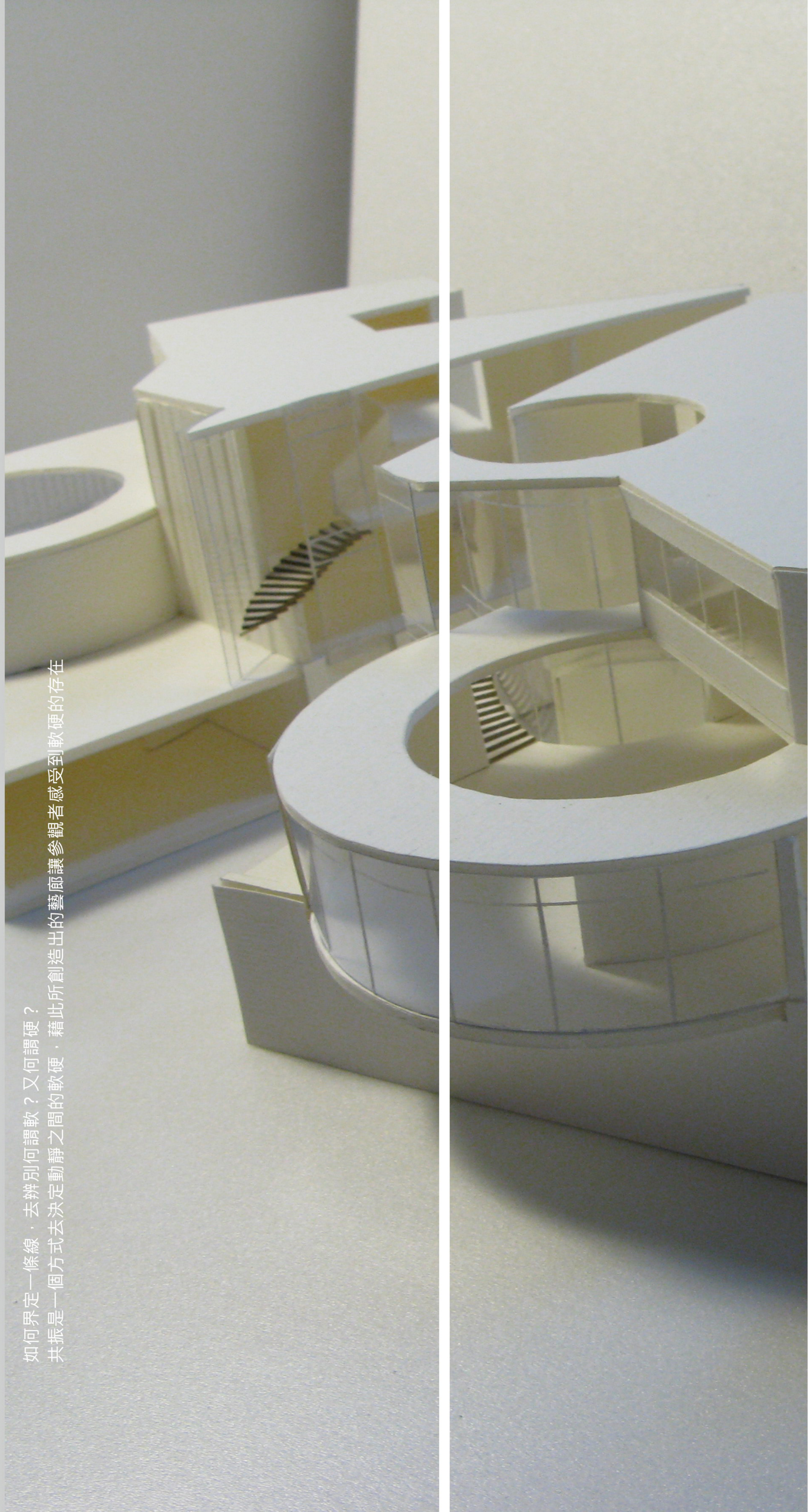


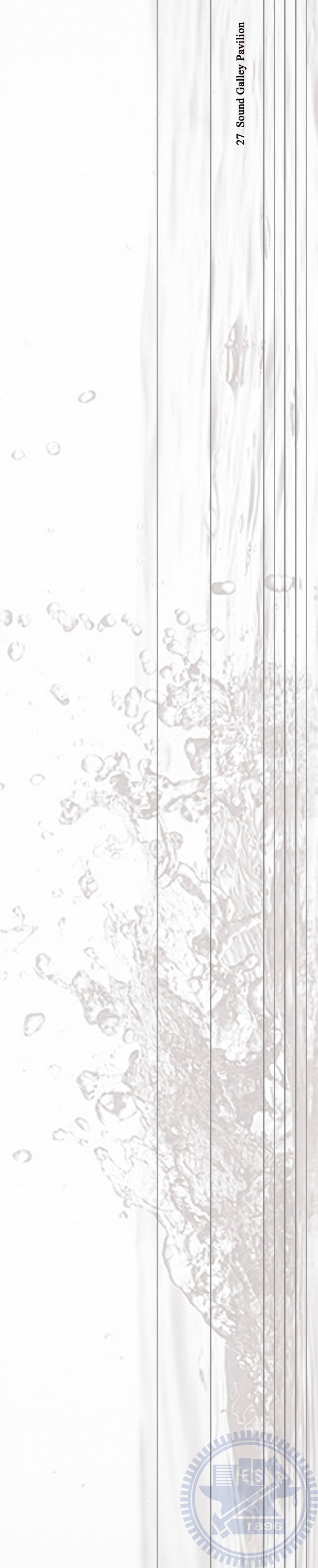
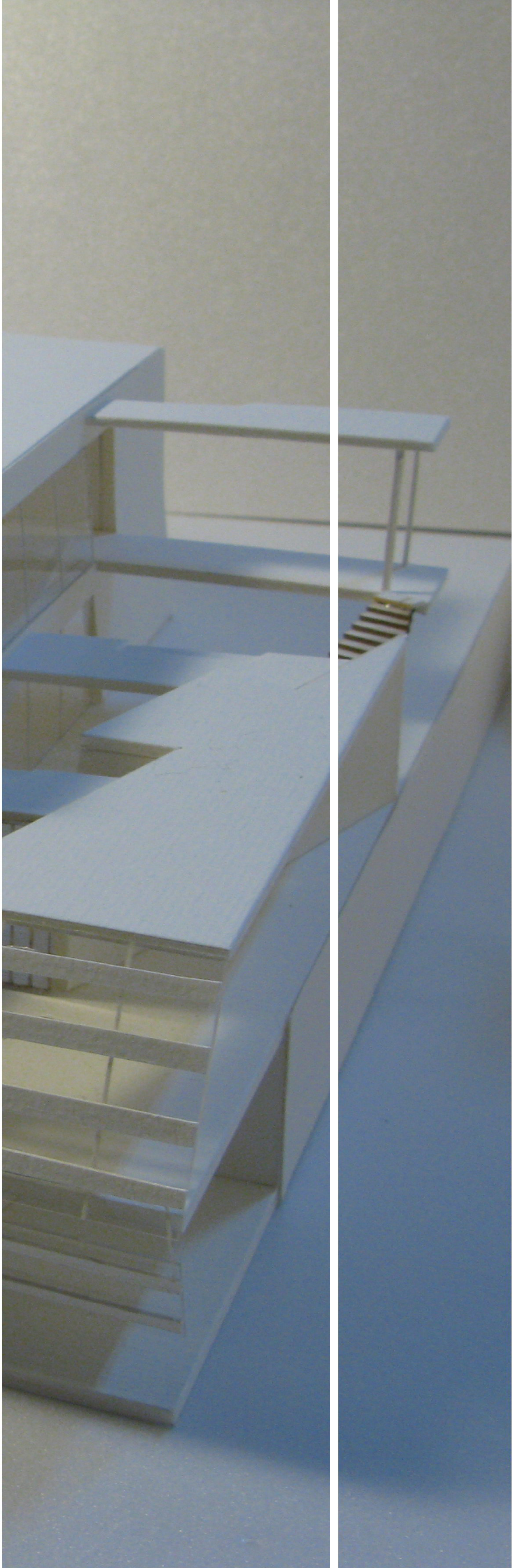
# Sound Galley Pavilion

from resonance to discuss what are soft and hard

如何界定一條線，去辨別何謂軟？又何謂硬？

共振是一個方式去決定動靜之間的軟硬，藉此所創造出的藝廊讓參觀者感受到軟硬的存在

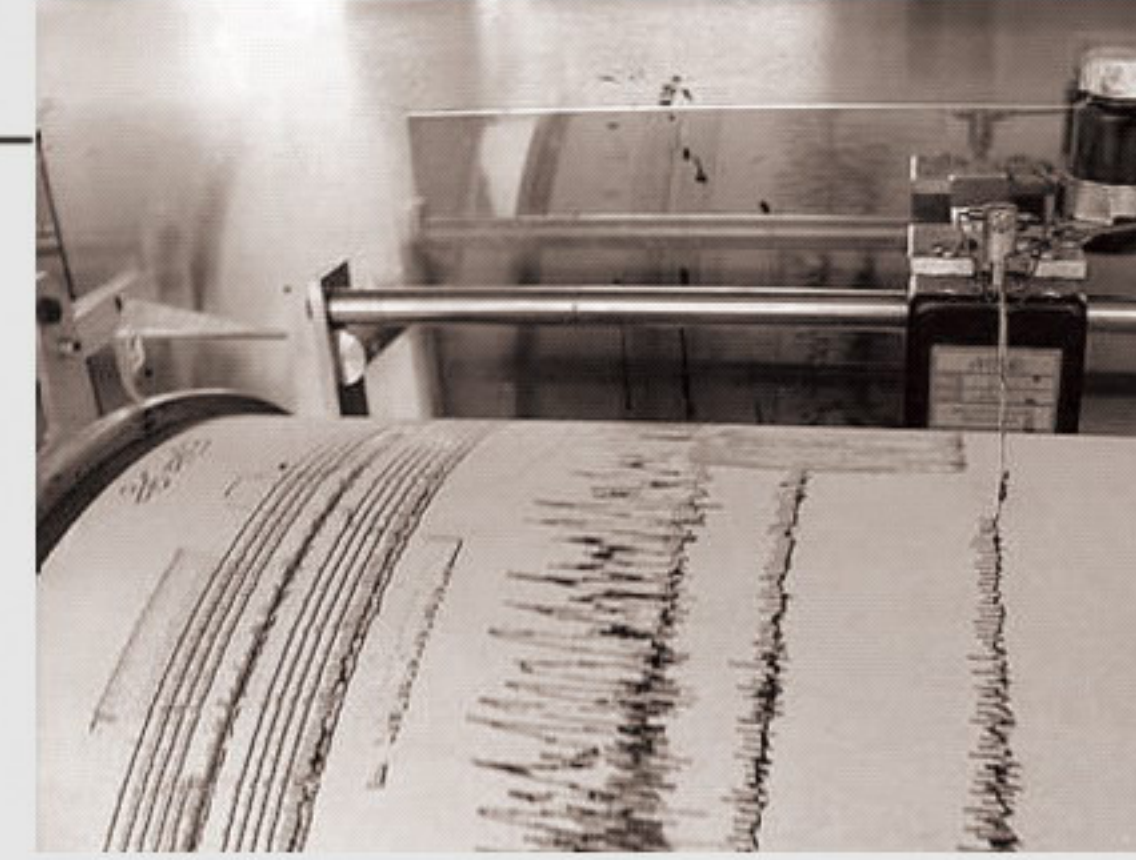




When sound waves hit a surface, there will reflect back a part of the energy, forming the echo. Sound wave with original wave will produce additive or offsetting effects of energy, especially in the confined auditorium. This effect led to a specific seat voice to strengthen or weaken.

Solid

Vibration wave



Liquid

Water wave

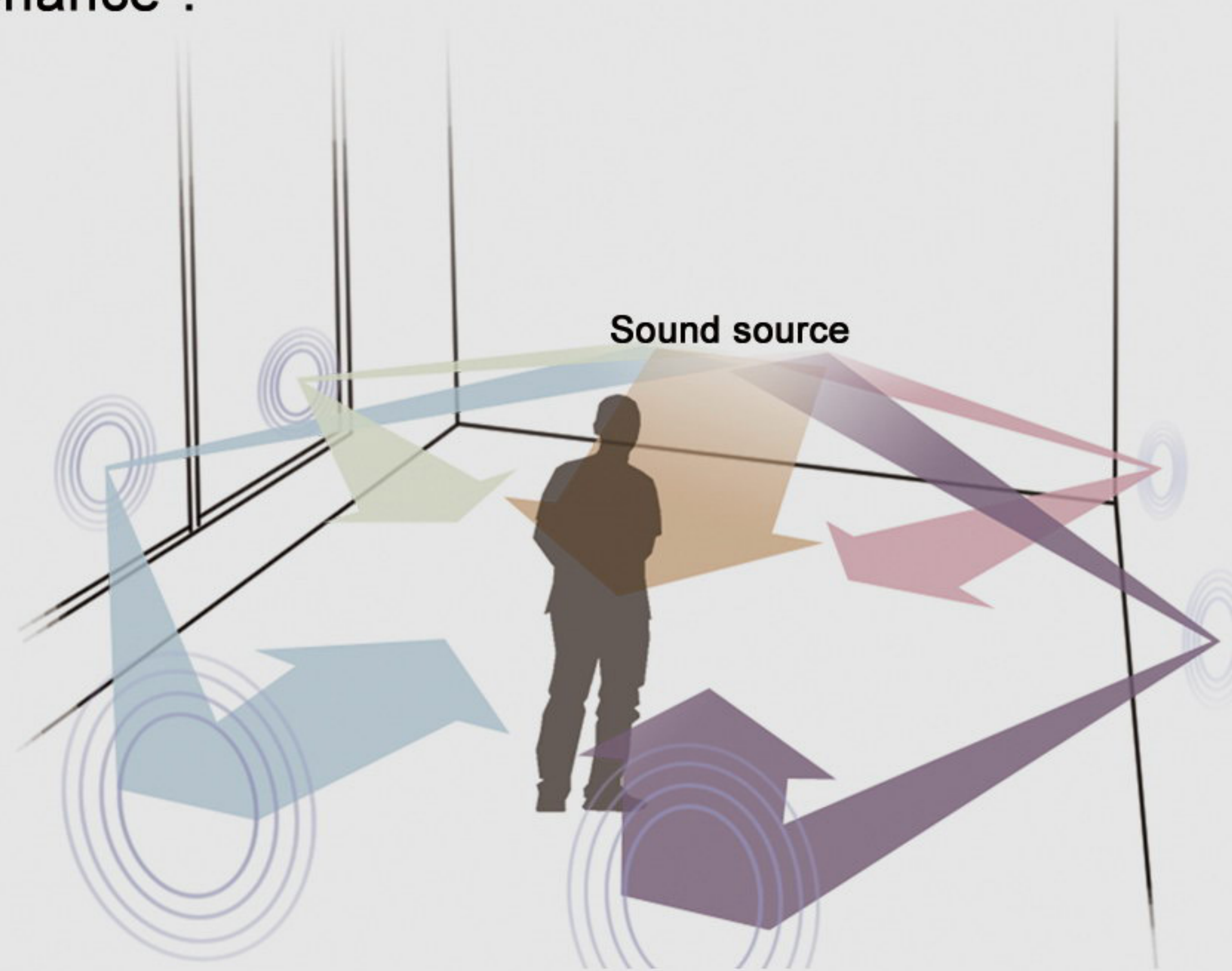


Gas

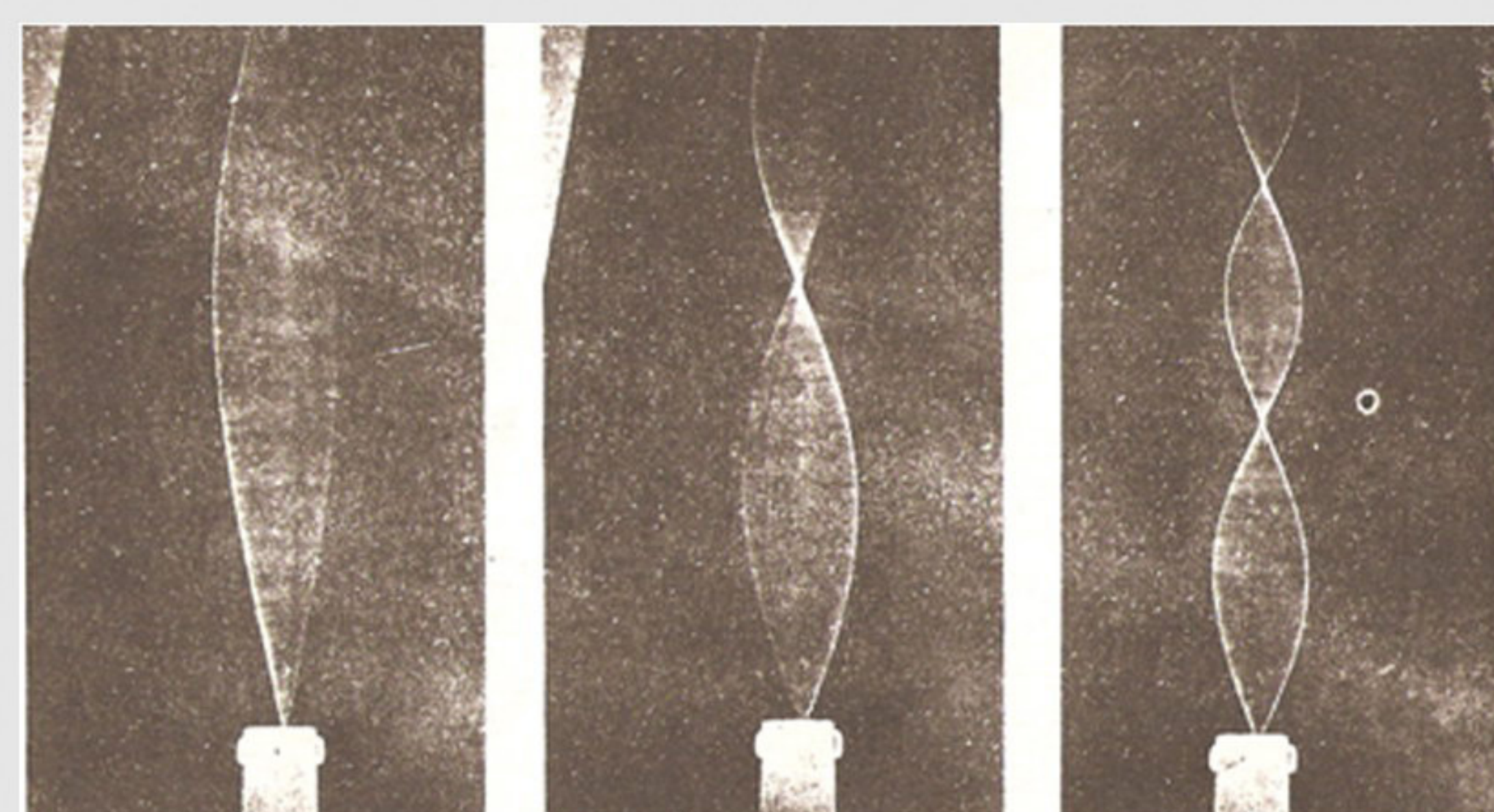
Sound wave



They have the same wave characteristics that interfere to enhance or offset. That is "Resonance".



Resonance is object's forced by that the vibration frequency is equal to natural frequency, the resulting phenomenon.

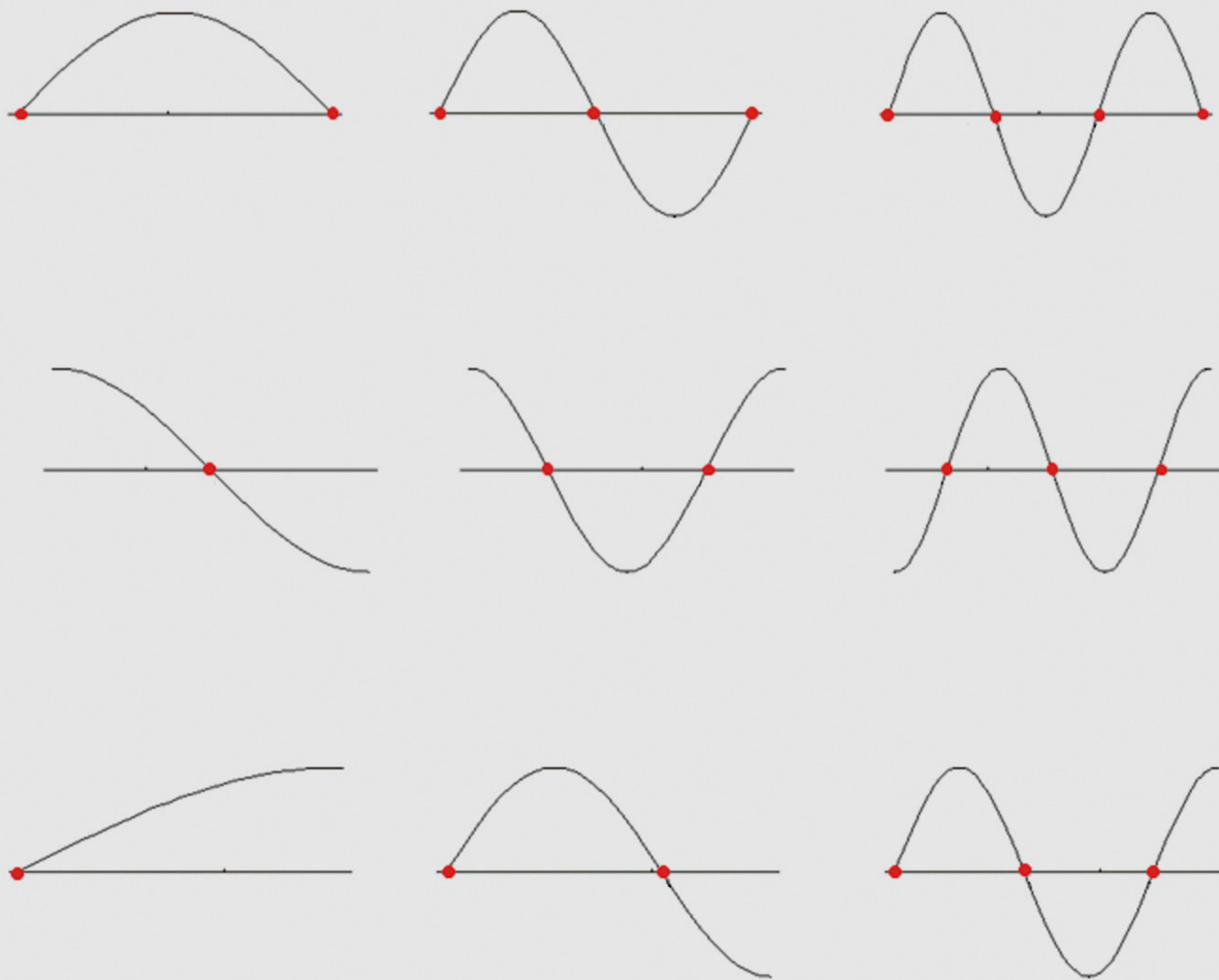


Natural frequency : The vibration frequency of the object itself

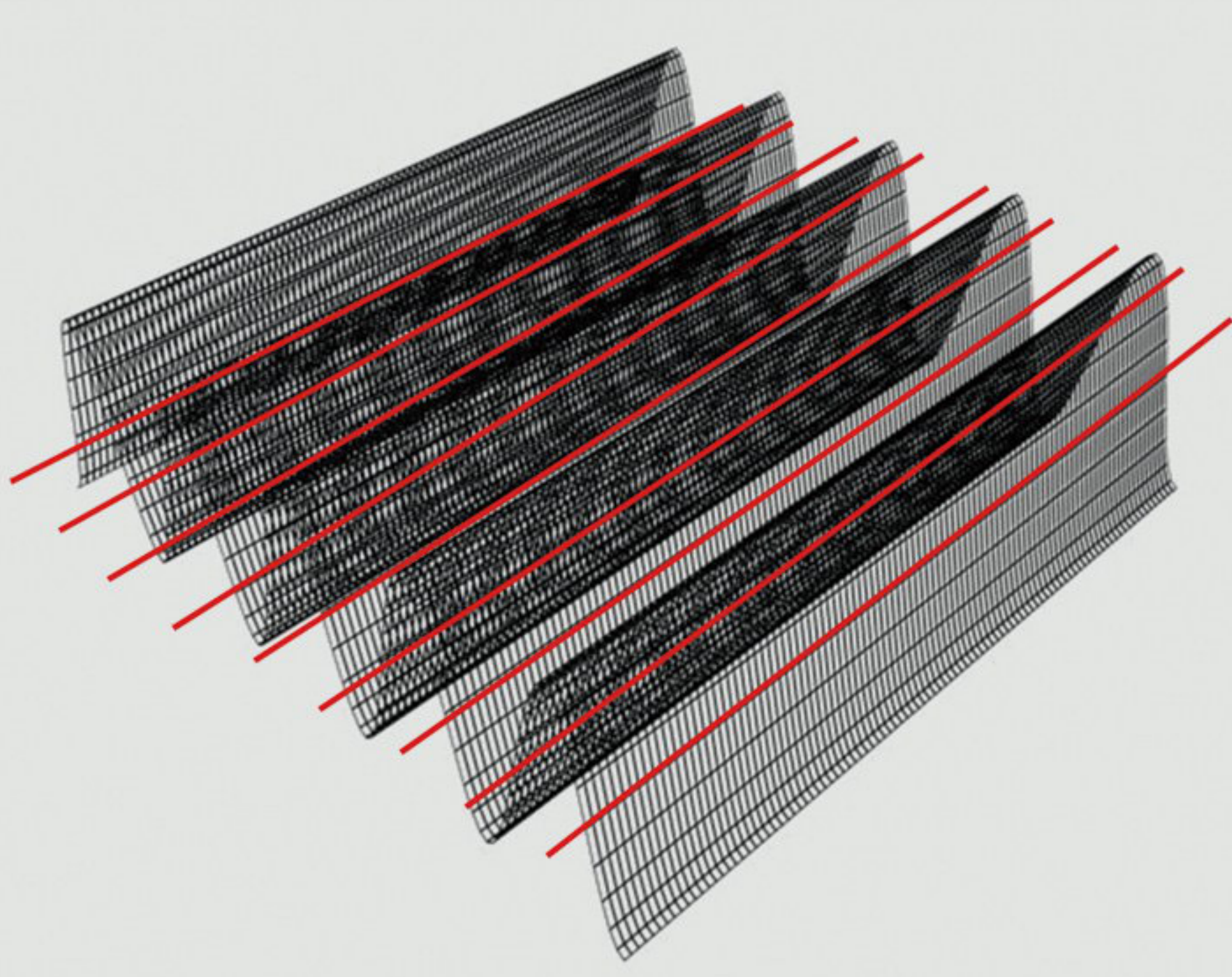
Forced frequency : The vibration frequency by the external force

Two wave trains, the same frequency, amplitude the same, opposites the same direction. Under the principle of superposition can be compose waveform, called the fluctuations in the standing wave. There are many types on differnt way:

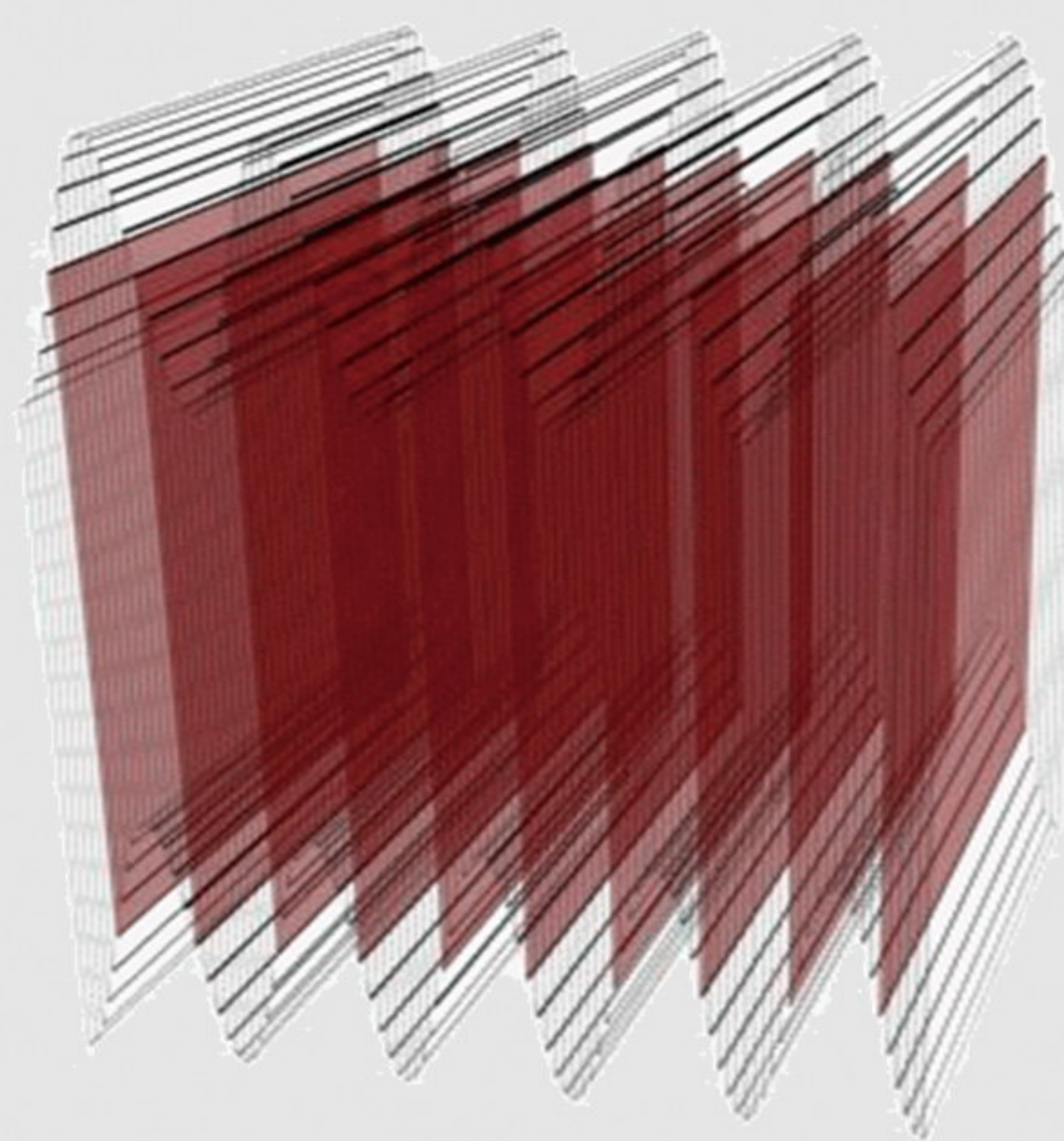
**Node**



**Line**



**Surface**



Any object regardless of the standing wave generated by resonance ...

After combination of two wave:

Static state

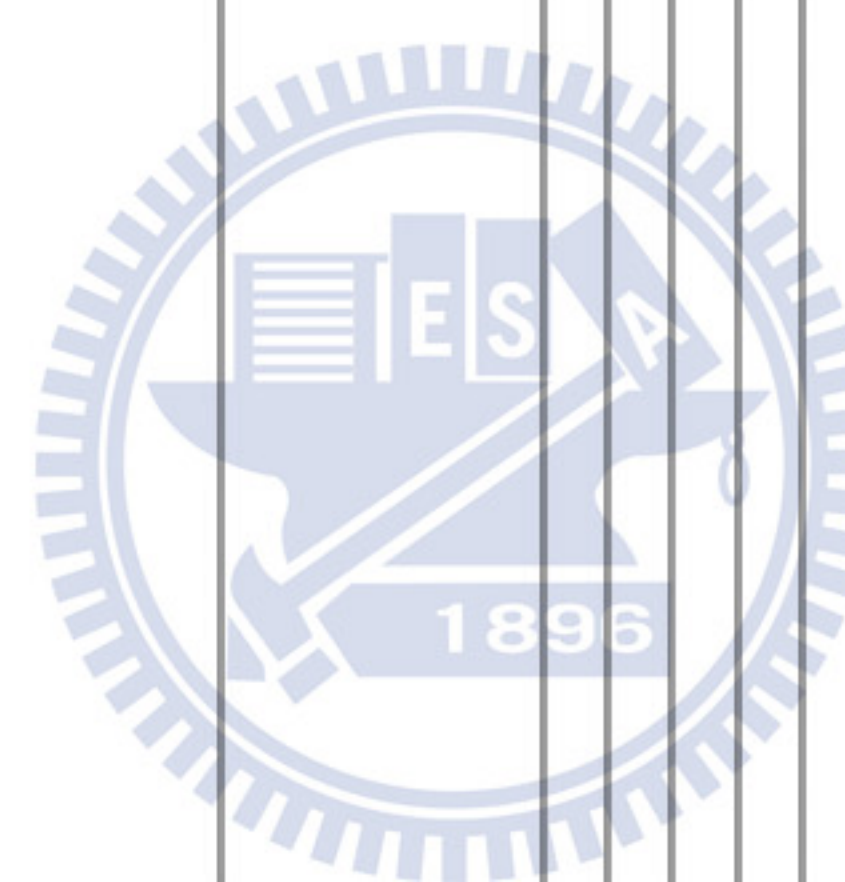
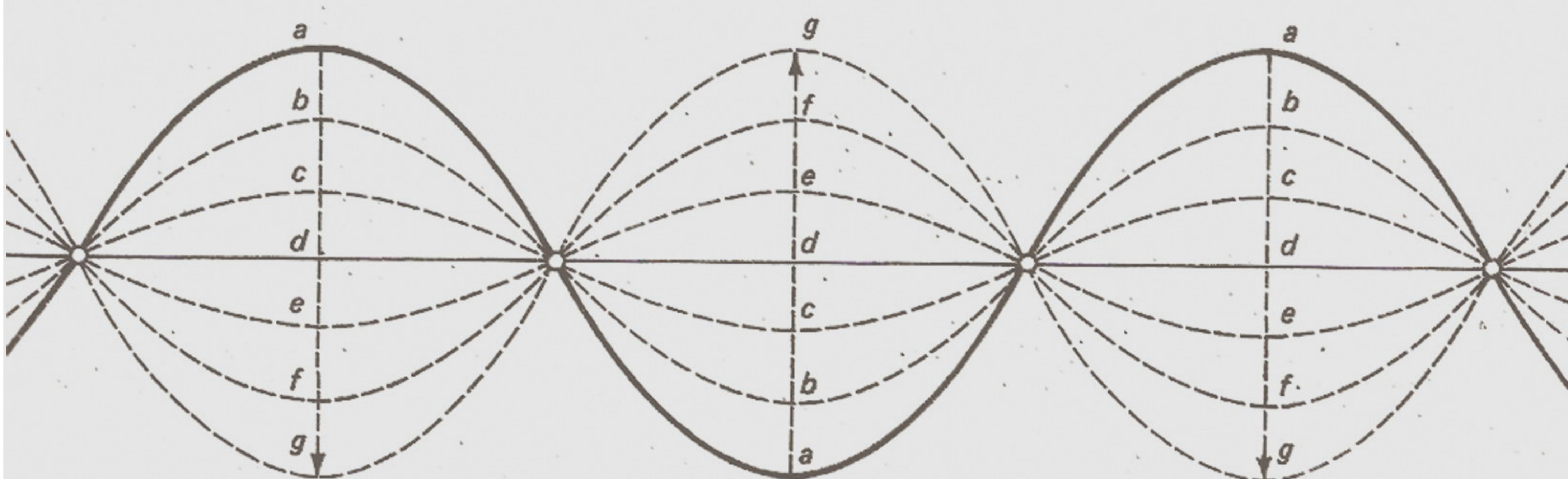


Hard

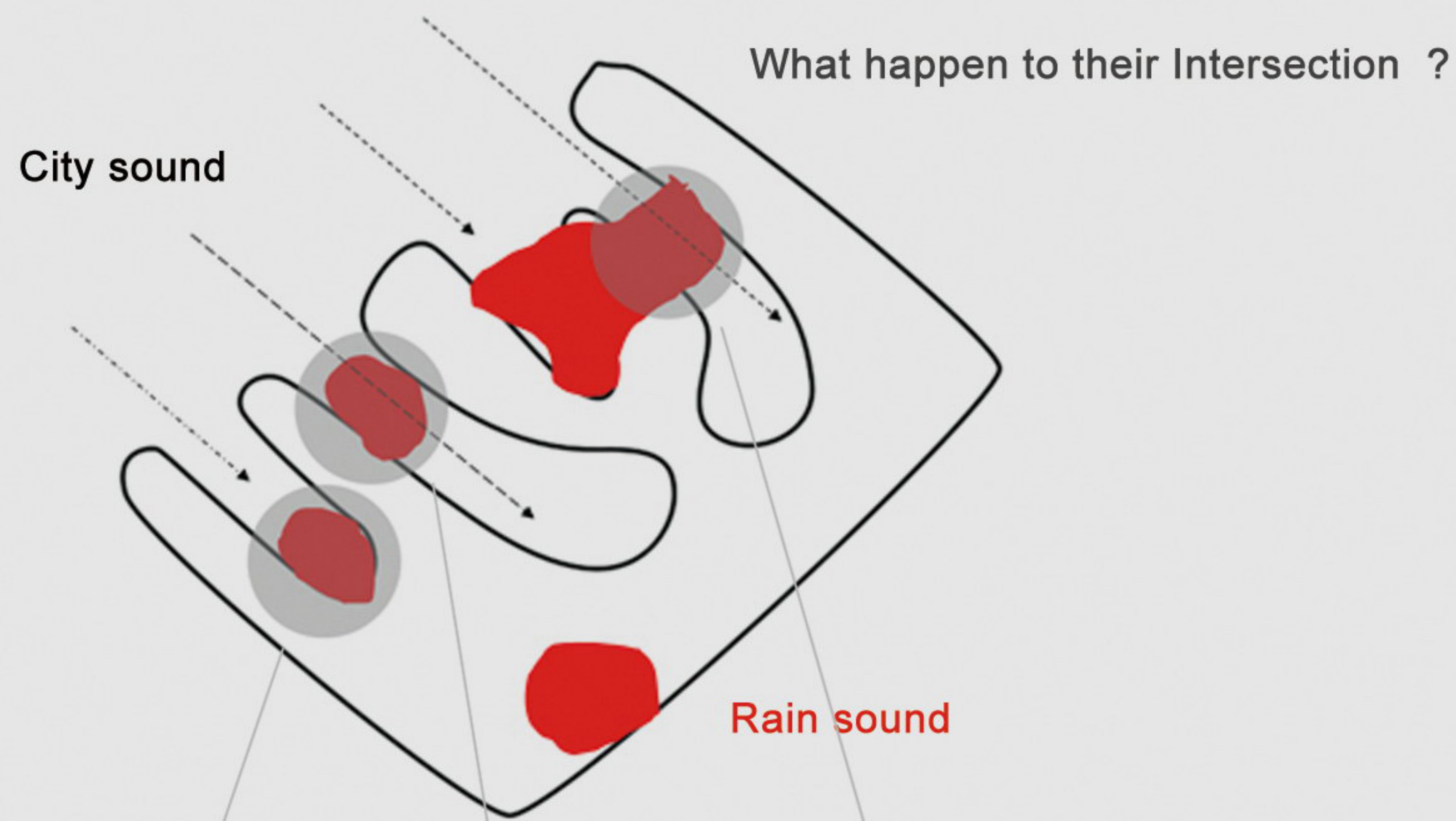
Dynamic state



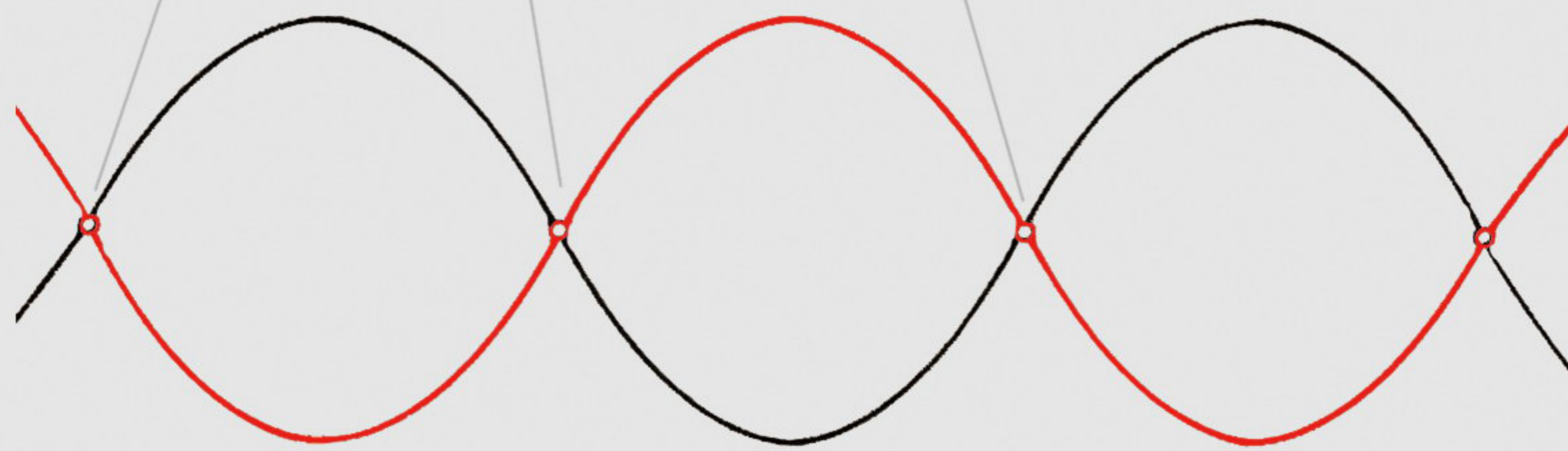
Soft



“Rain sound”'s intervention changes the original program, and some the space of the original “City sound” also changes their personality.



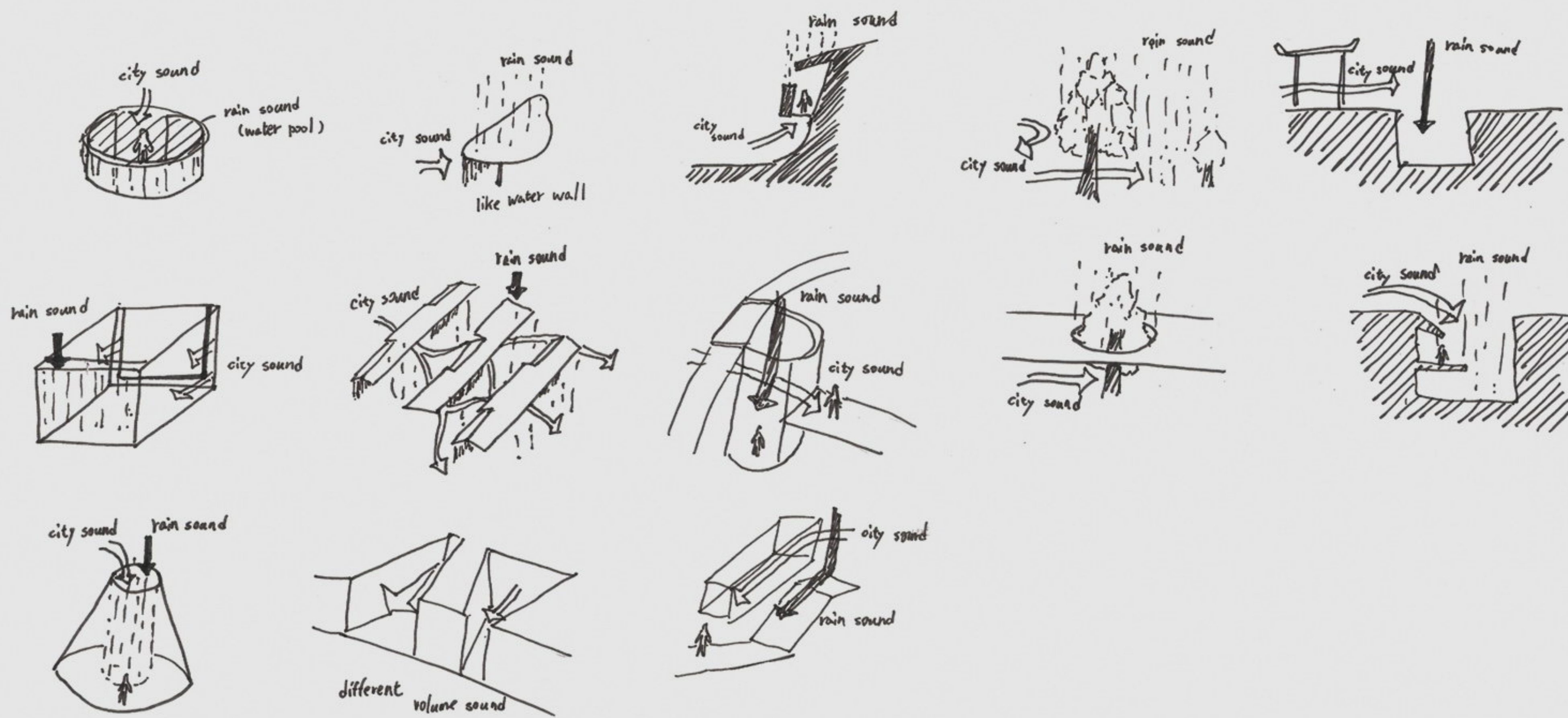
Form a new atmosphere interaction



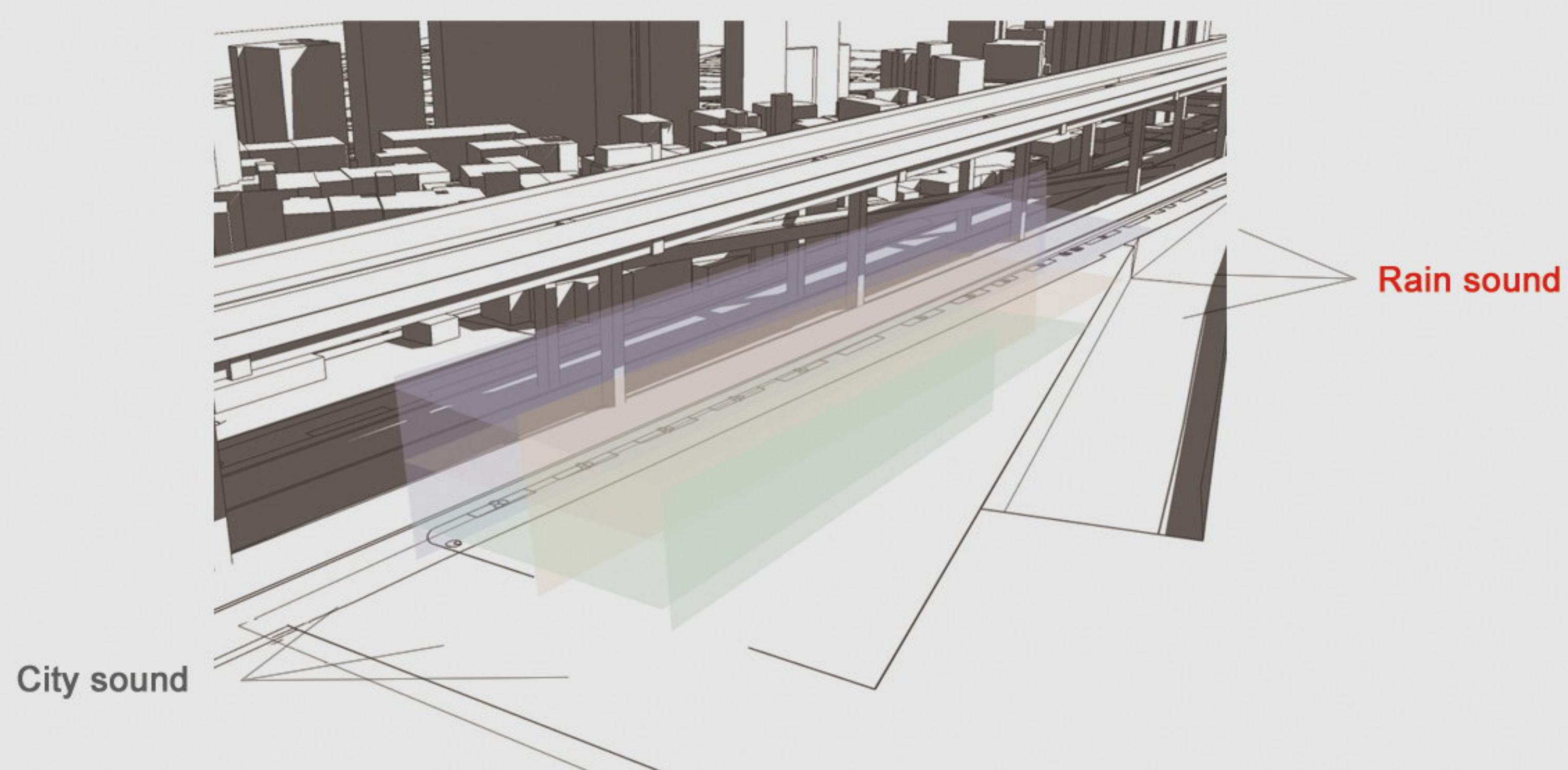
### Two sound's interaction

When city sound + rain sound

1. Be enlarged or reduced
2. From a different direction or angle of entry
3. Some may be turned into a vibration, or light and shadow rendering
4. Other way re-presented (tree or glass ...)

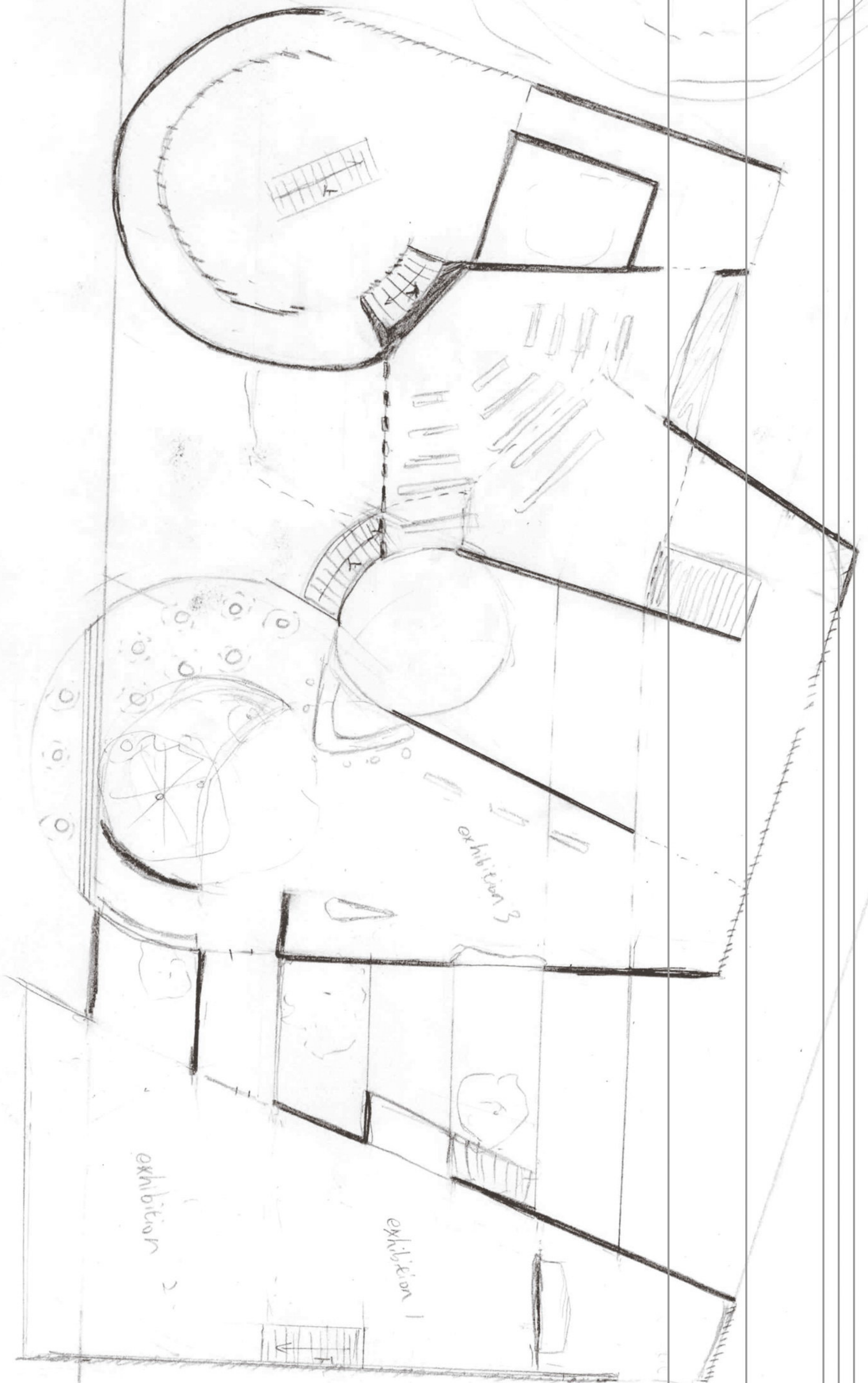


### Arrangement sound and space

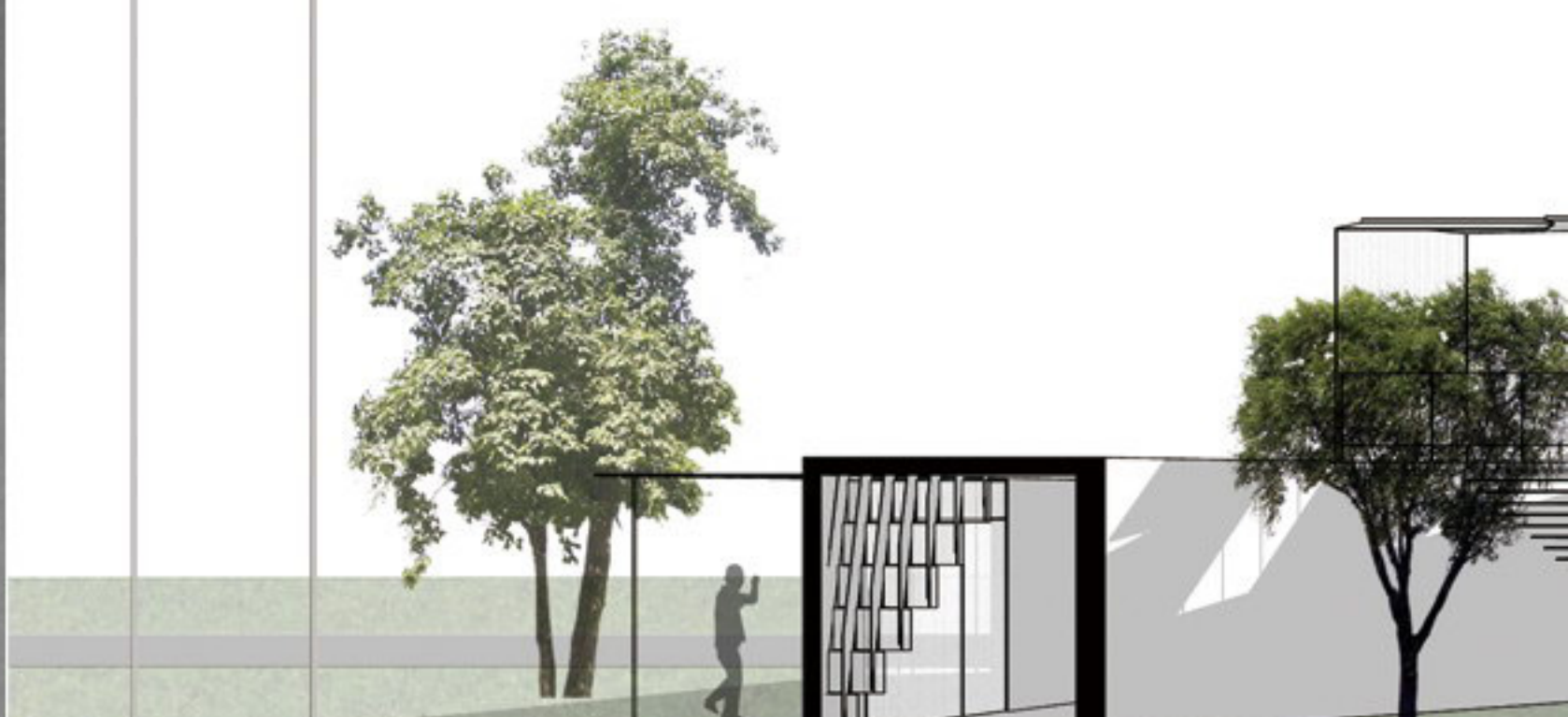
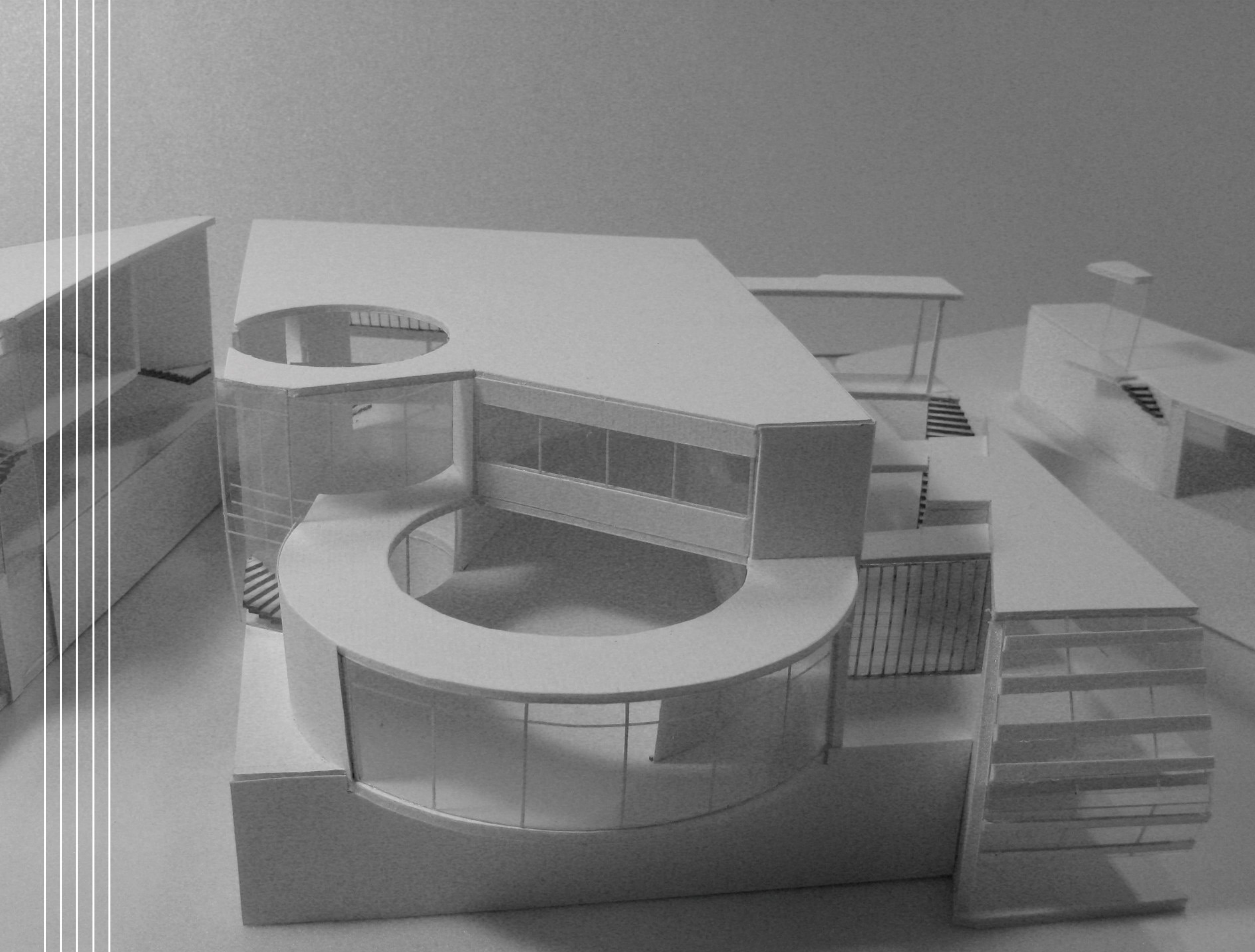
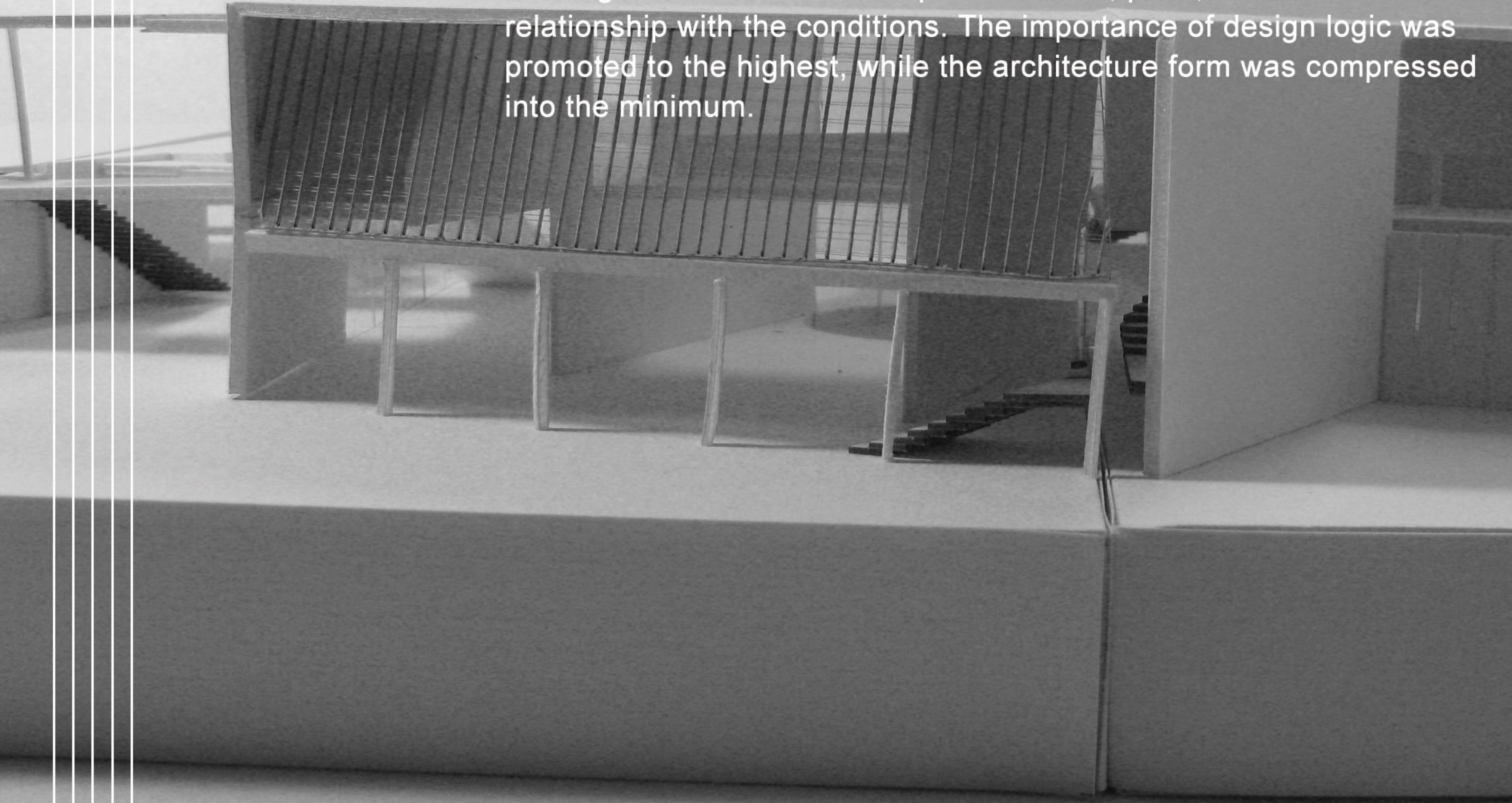




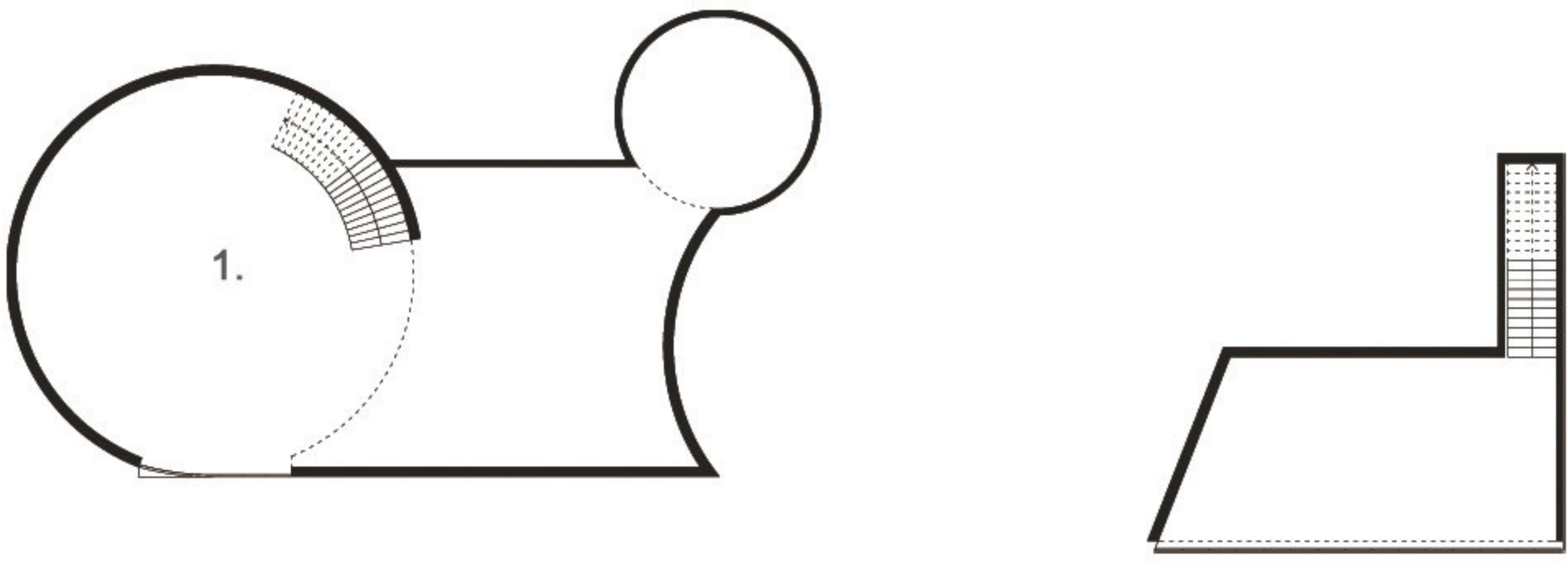
Derived from the resonance of the soft and hard conclusions. Determined combination of stationary state are hard, and dynamic state belong to the soft. While observing the base conditions, proposed to base the voice of the assumptions for the variables. Make the sound of the natural frequency and forcing frequency generated by the so-called overlap only static and dynamic state. Its the voice from the public road as the natural frequency, and from the sound of rain as the forced frequency. Only two voices overlap each other will be derived back to the soft and hard conclusion.



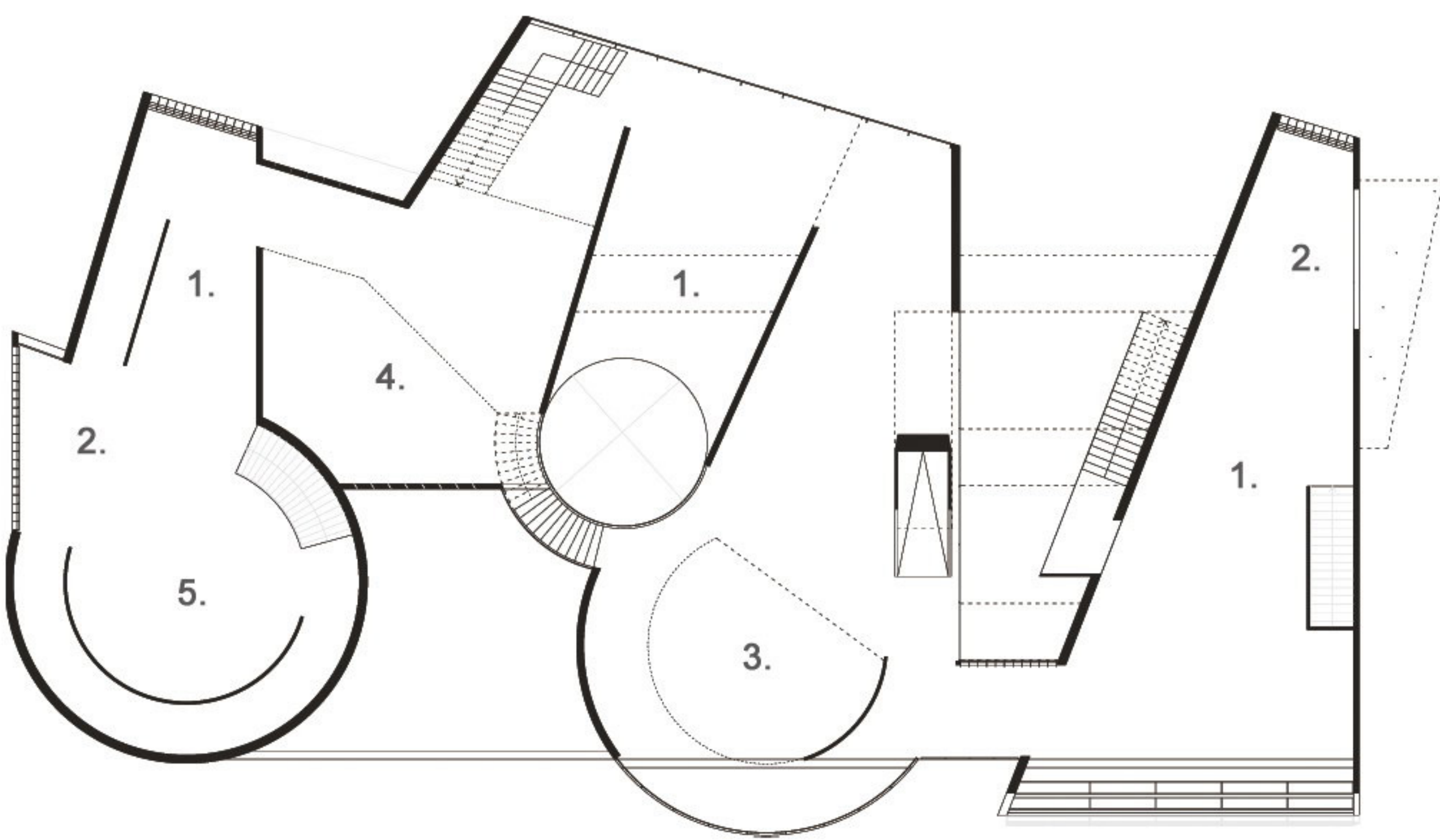
The design of different parts of the past, is that each element of a building are derived from the process. Wall, pillar, and floor has a relationship with the conditions. The importance of design logic was promoted to the highest, while the architecture form was compressed into the minimum.



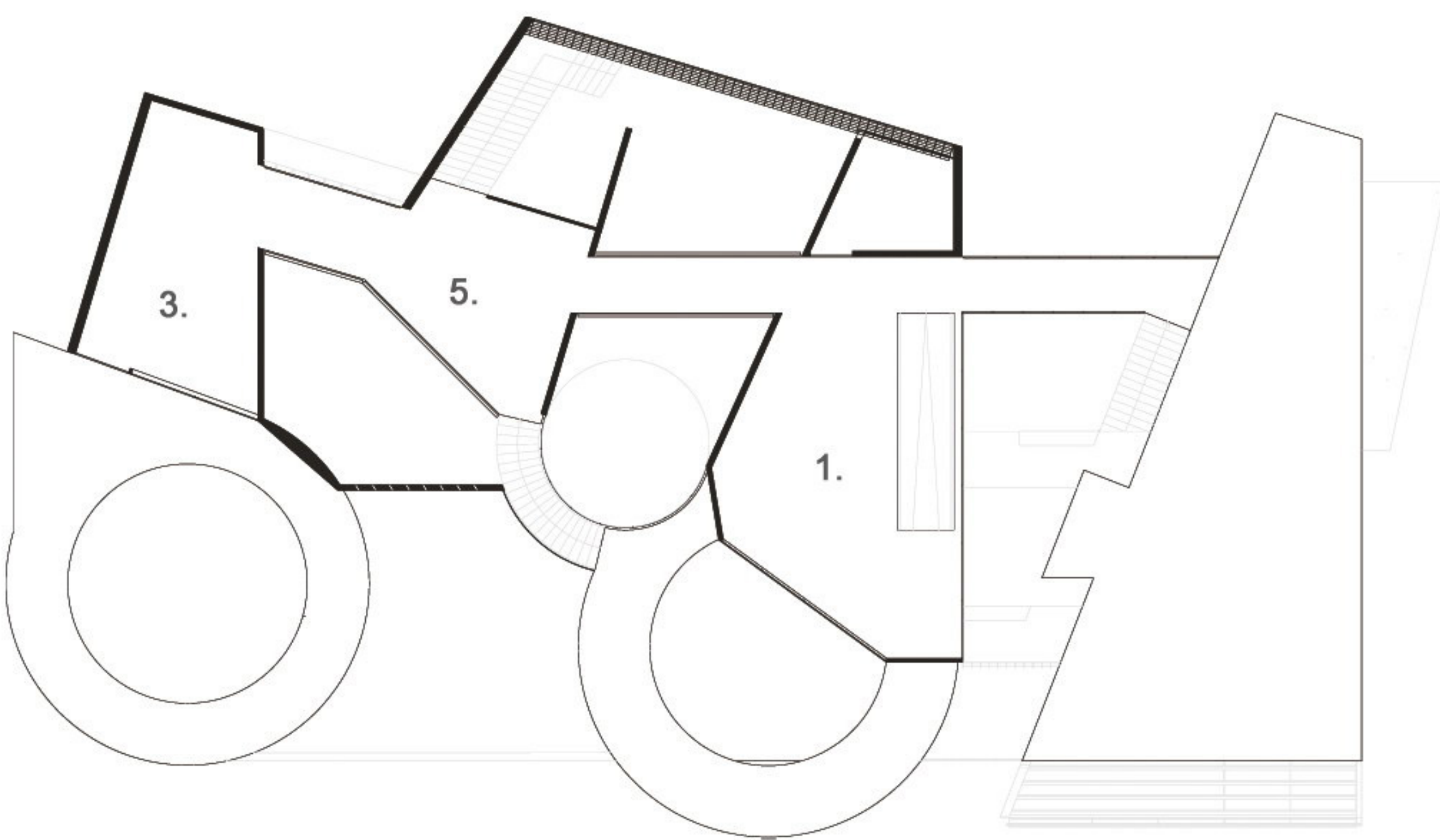




Ground floor



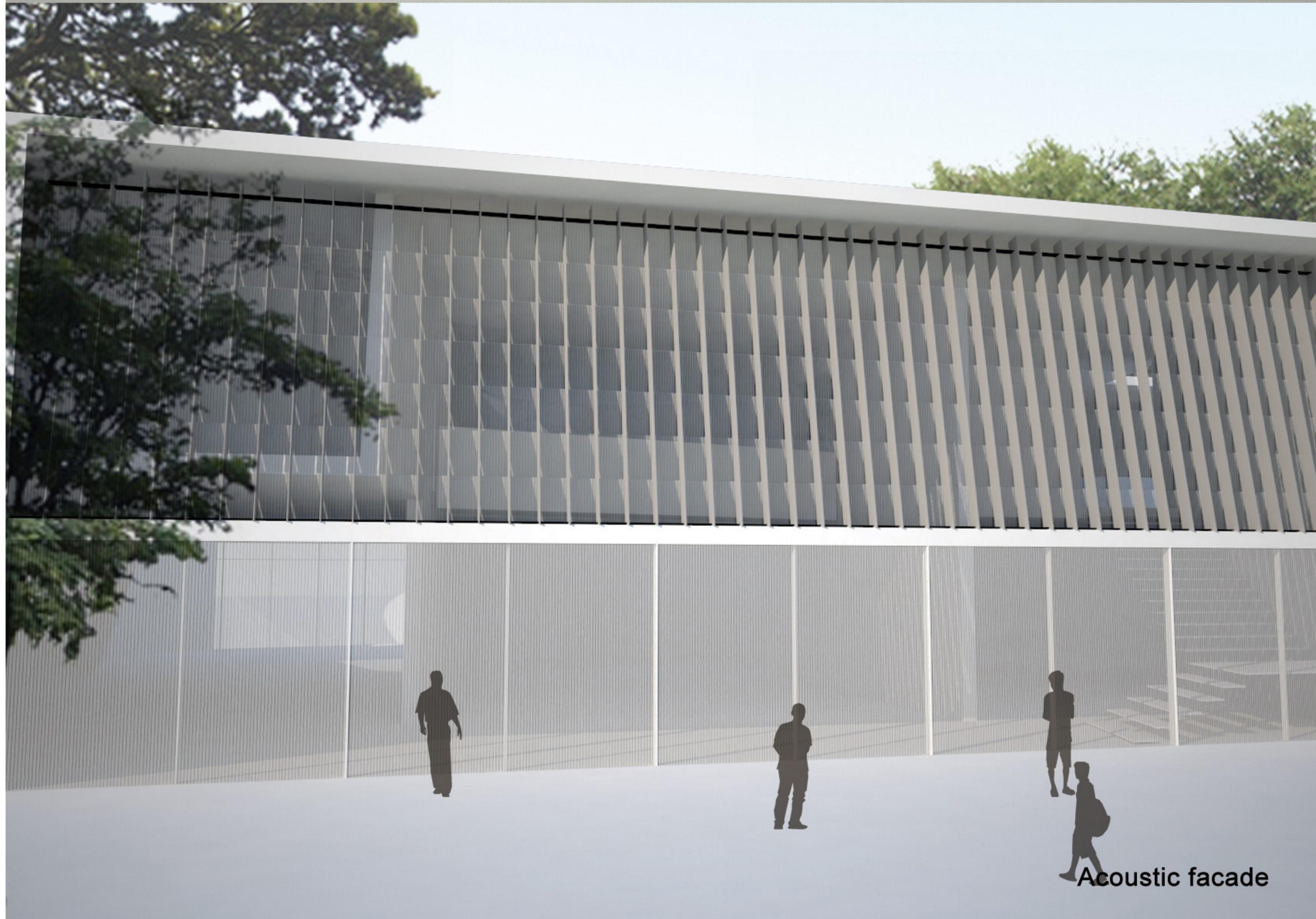
First floor



Second floor

- 1. Exhibition
- 2. Lobby
- 3. Coffee
- 4. Speech
- 5. Gallery





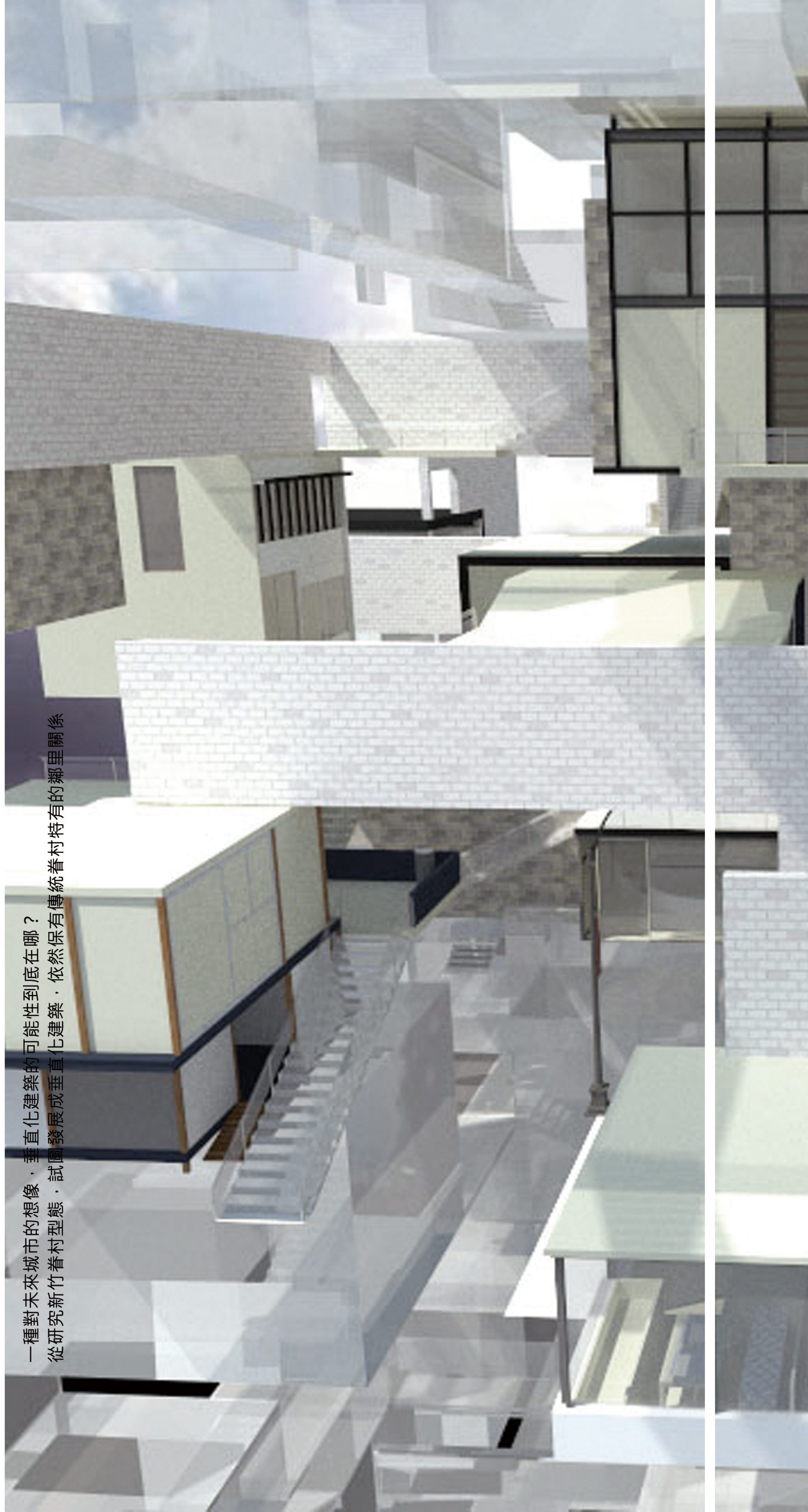


# Vertical Village


To think about the vertical city of the future of building

一種對未來城市的想像，垂直化建築的可能性到底在哪？

從研究新竹眷村型態，試圖發展成垂直化建築，依然保有傳統眷村特有的鄰里關係



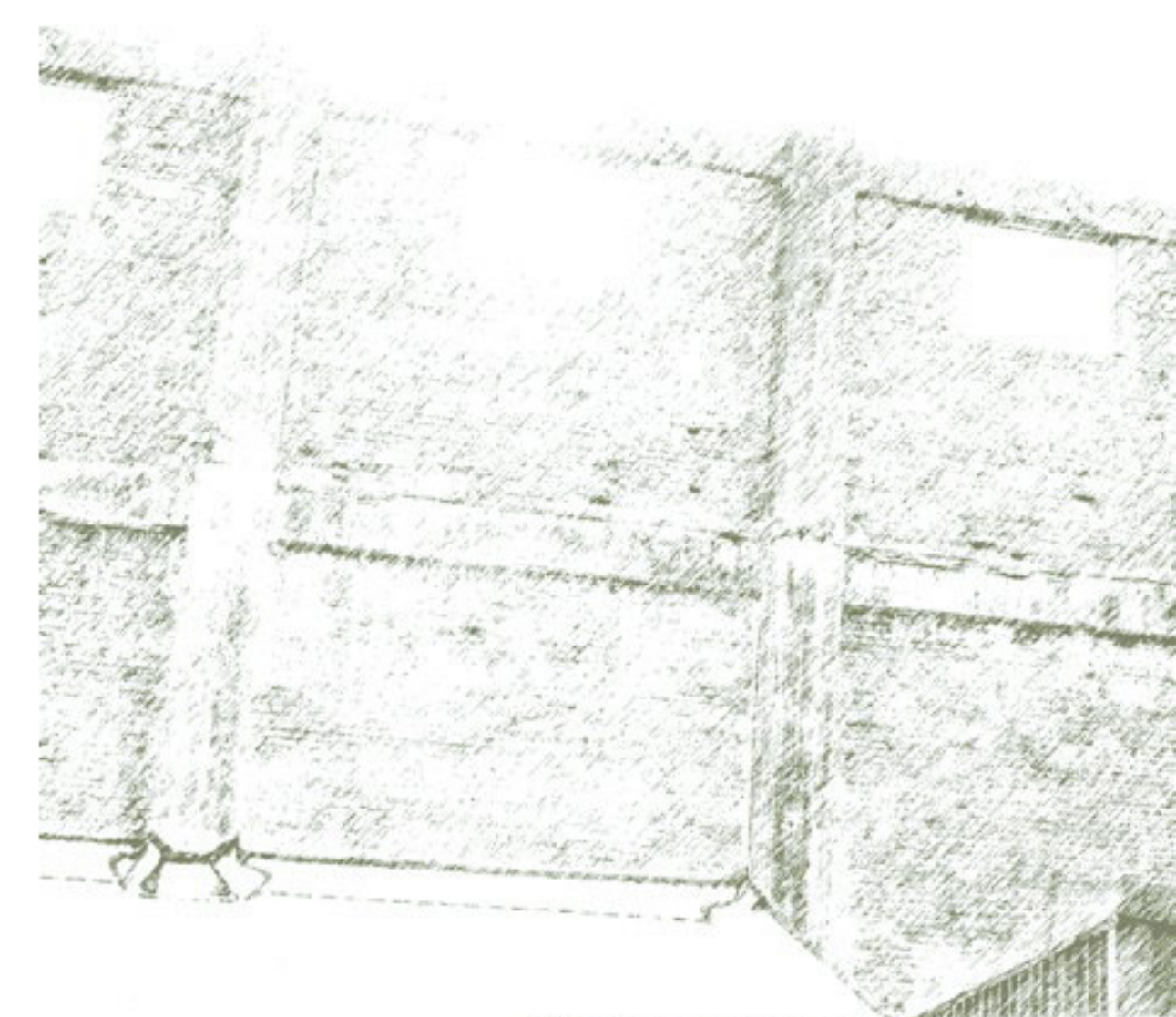
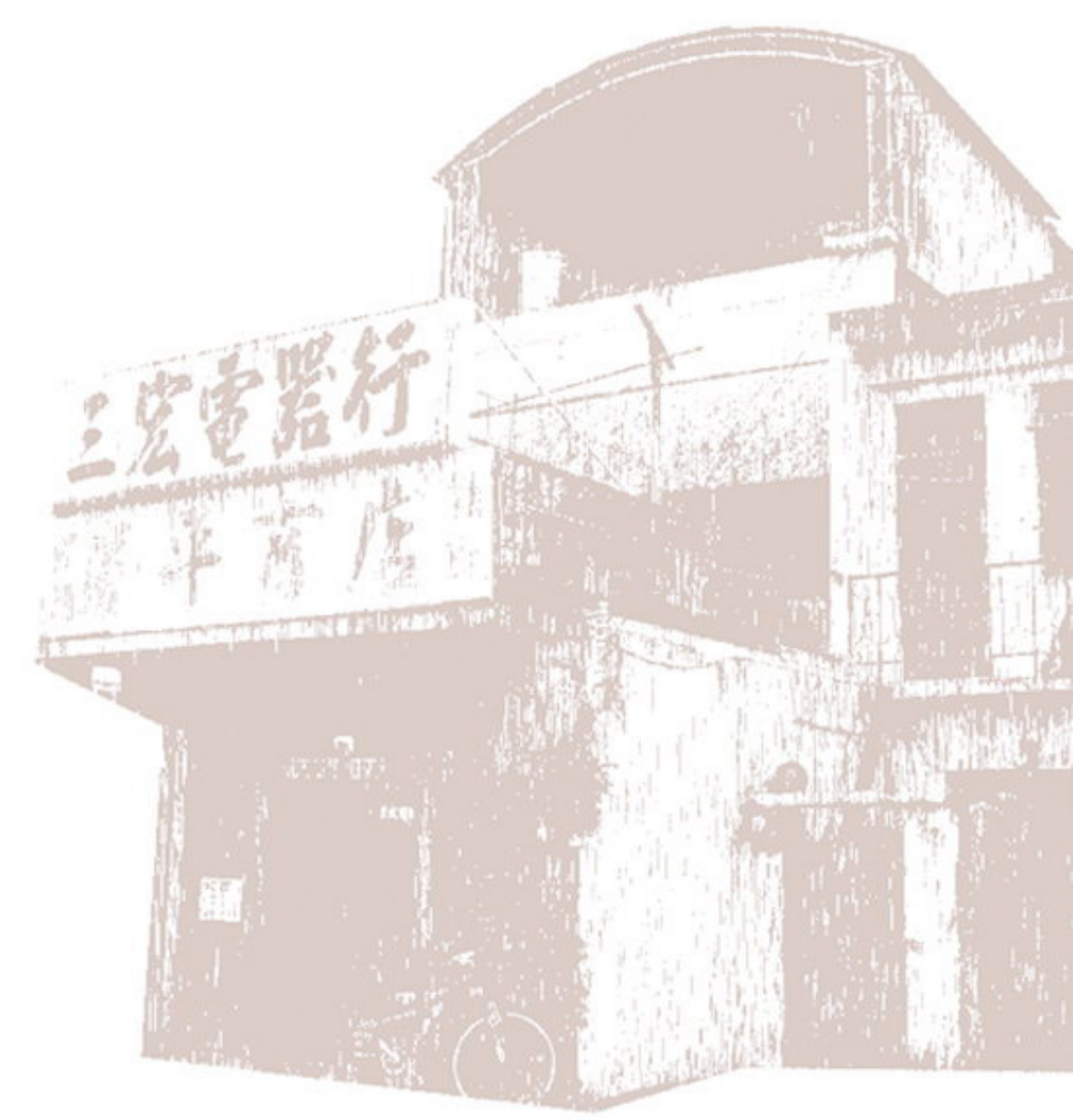




Into the village community is really hard to copy the unique charm of the environment. Whether the complex relationship between the street or down after several years of additional areas. That has been definition which the village community is how the different residential building. Perhaps that is so compact architectural style, causing to smell other house's dish every night. Of course, the neighborhood relations is natural harmony together. These are certainly areas of residential buildings can not compare.

Looking rapid construction of residential buildings can not be effectively established with the neighborhood atmosphere, in fact nothing more than a lack of opportunities for human contact. Whether direct or indirect, to meet the conversation to know the news and other neighbors, the lack of bridge to communicate.

In turn absorb the advantage of military community. In fact, not difficult to observe the village community households. Those are clever handling of similar problems, such as the household not only belong to the front side of public environment, but also attributable to the back side of the public environment. They subtle use wall to define the public space belongs to different communities, and form communities of different sizes and staggered relationship.

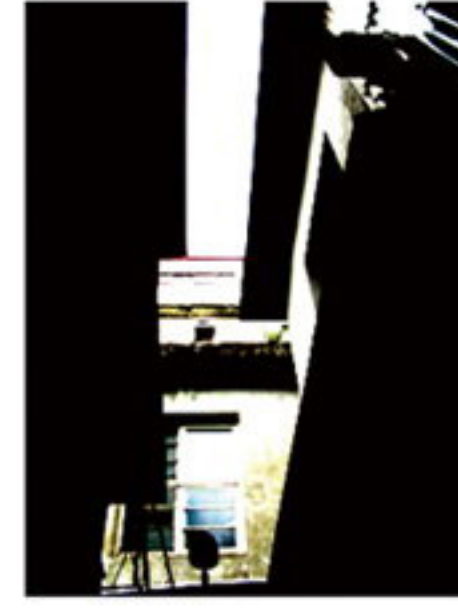


### Village's lane's relation

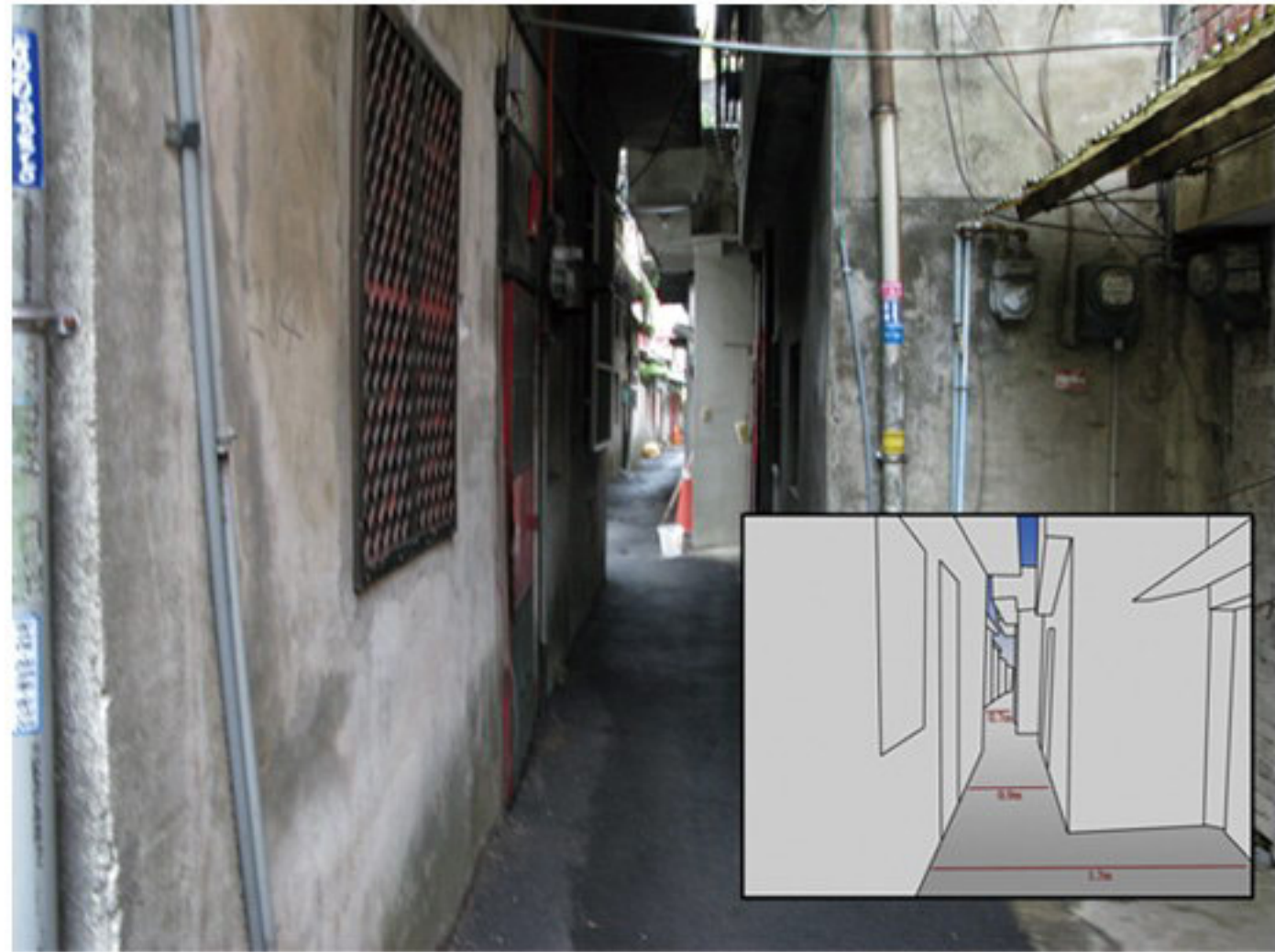
They disordered the sense of direction ,and were unable to decide the front way.



1. There is no definite relationship between the axis



2. There isn't the expected range of the sky



3. There is no uniform street width



4. There are line of sight obstruction at the same time

### Village's architecture's relation

They interlaced combination, were community self-rule, and delimit range or occupied area.



1. The complex household relations



2. On the first floor is clear corridor,  
construction of additional floor above



3. Wall to define the range

### Village's community's relation

One house at the same time belongs to both sides of the public space

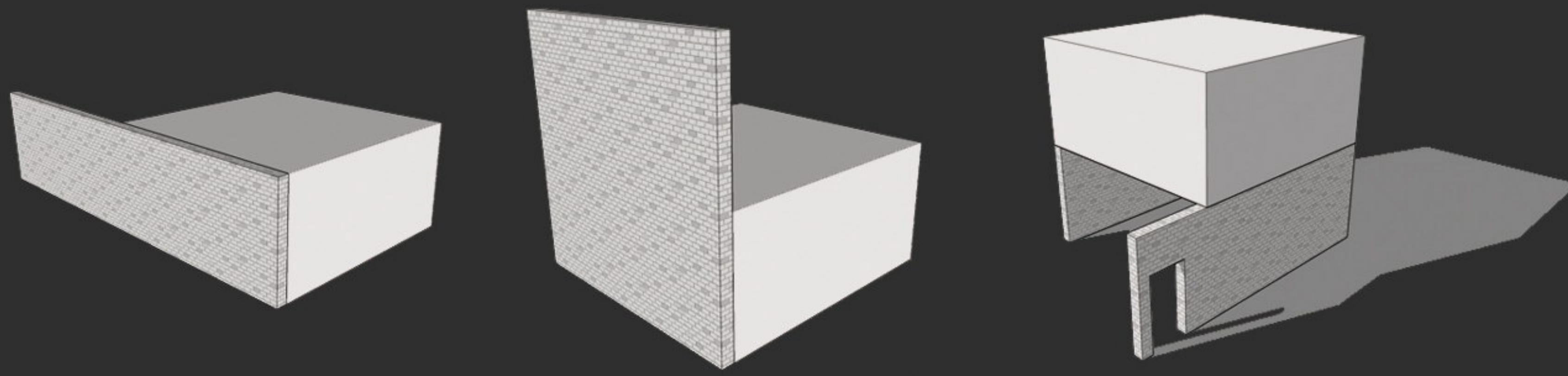


1. Around the wall

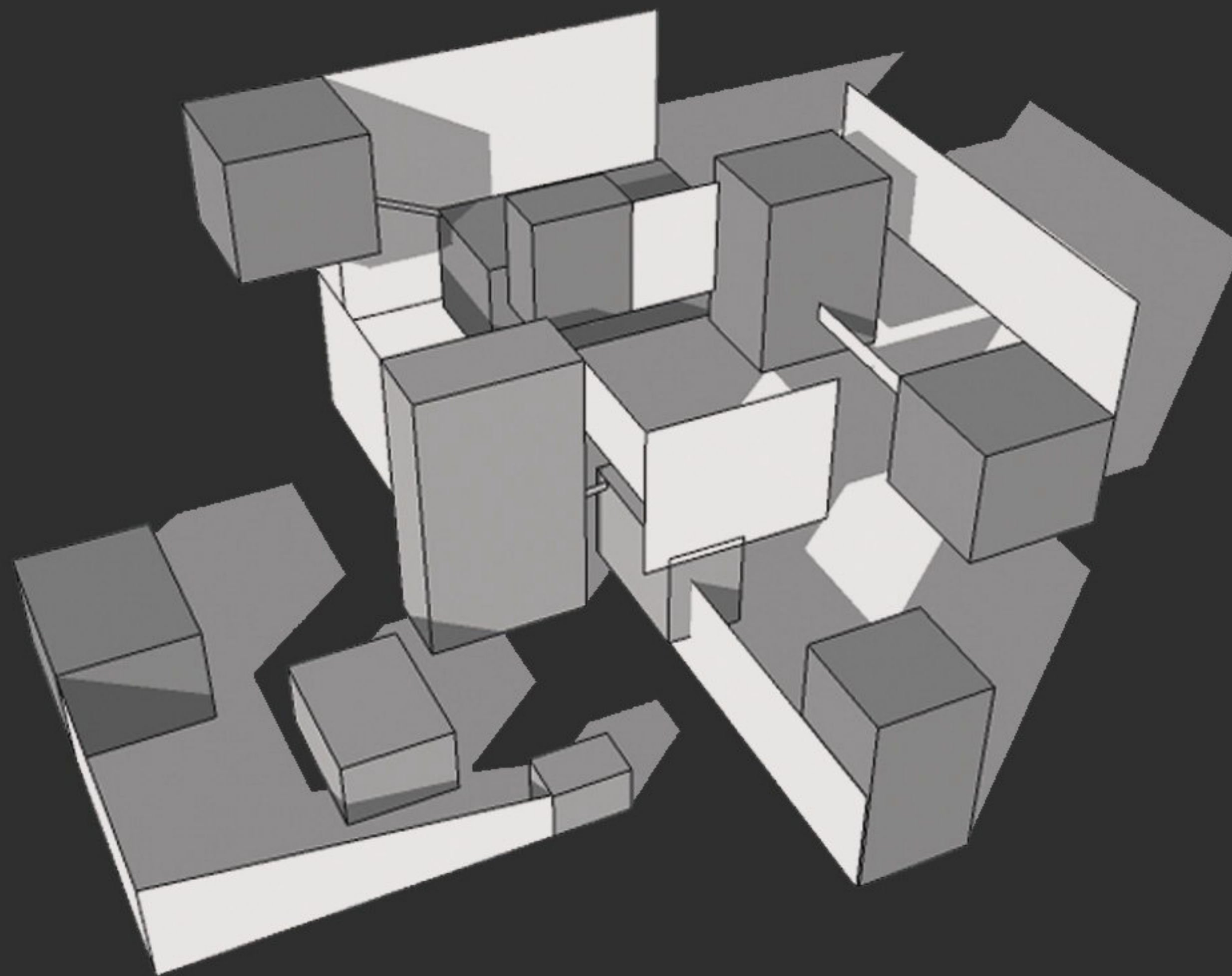


2. The use of public space

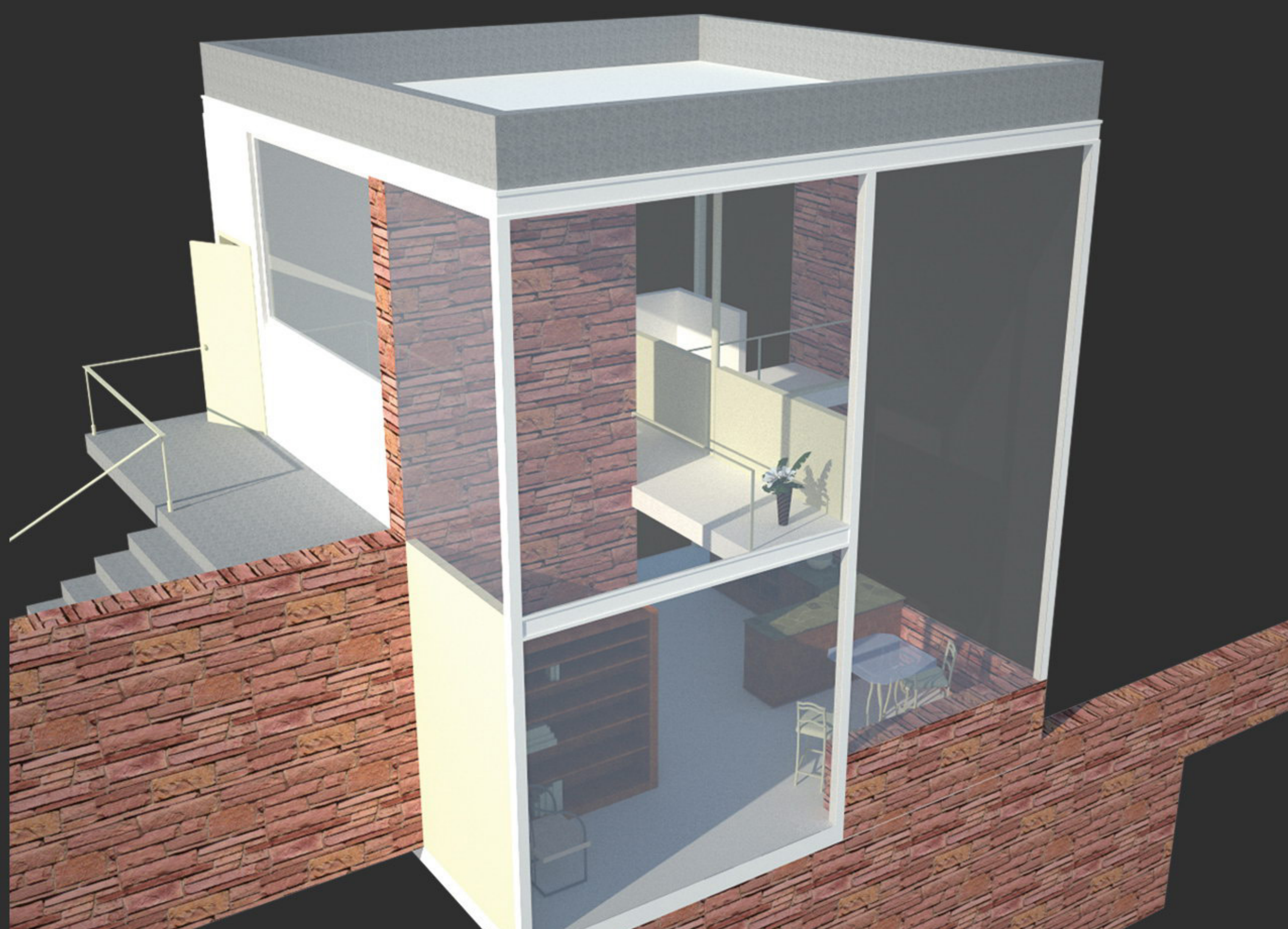
To break away from the original relationship of the building plane. Wall, has become a very important element, not only as a continuation of the role of space, but also become part of the structure.



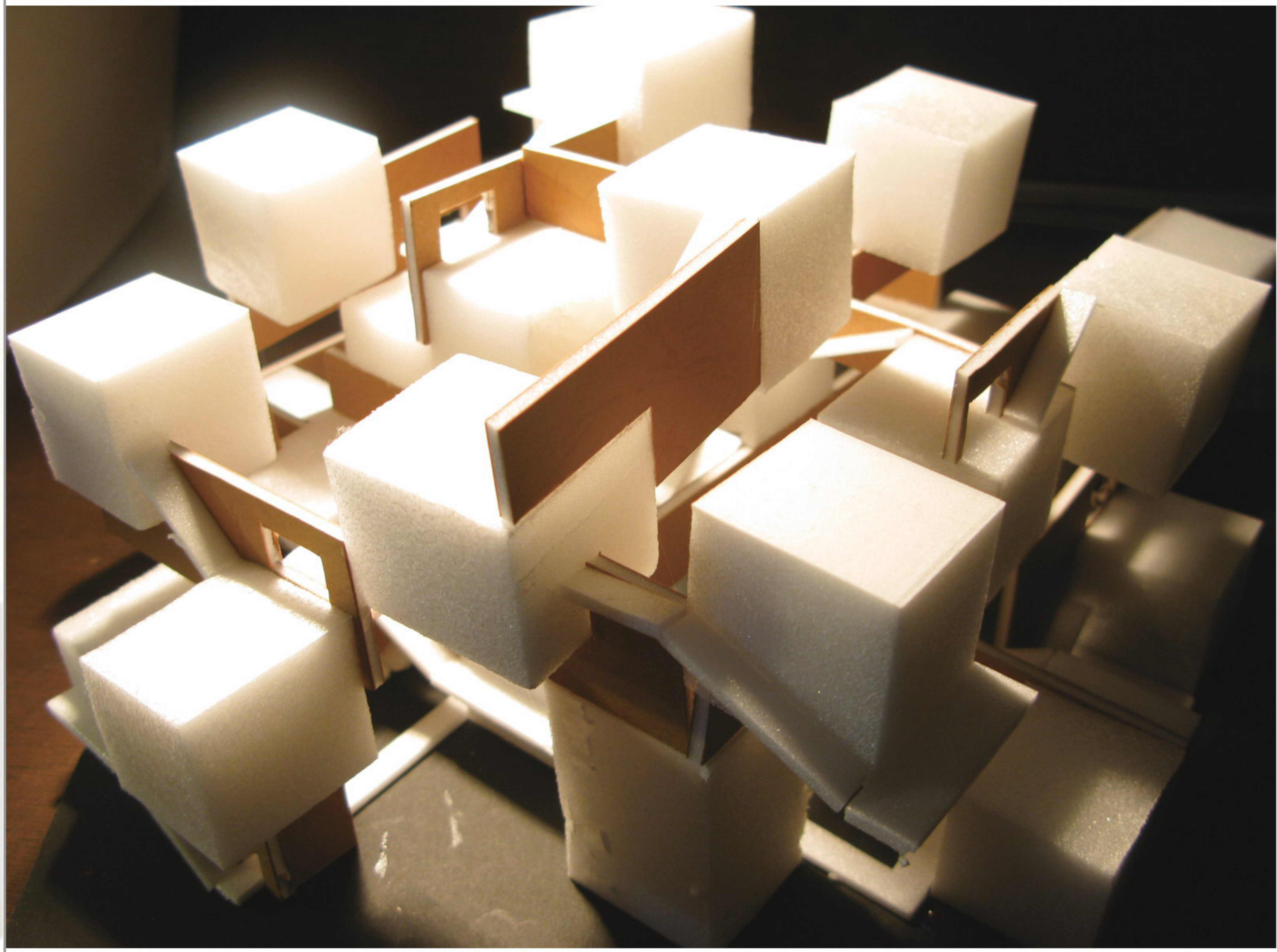
In order to achieve the vertical possibility. To reconsider the cluster relationship on village community, and raise the the wall of define range, but also to connect the housing also raise with the wall. To get rid of the original region boundary, than up and down to link up with each other. The household relationship's level is not horizontal to develop, can be vertically to communicate.



Residential units are linked with wall to construct different structure homes. The outside walls may extend into the interior as part of interior wall, and may also be just support unit structure.









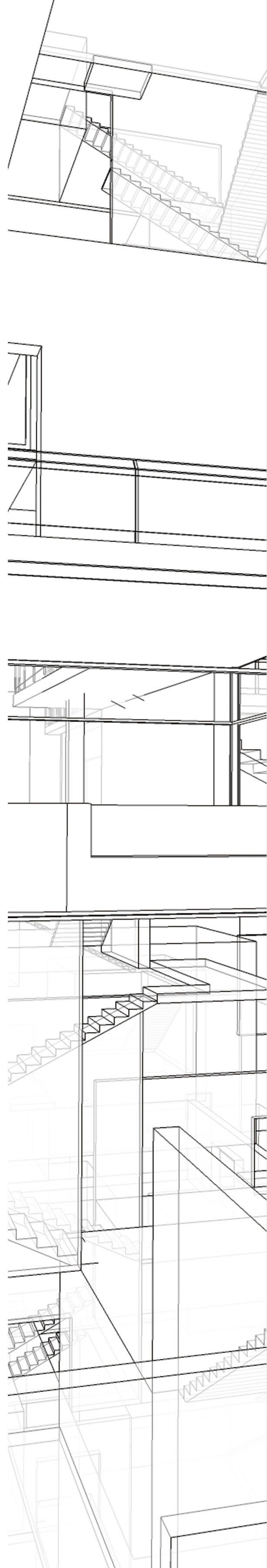
Continuous circulation



Interlocking Living space



Open space's quality

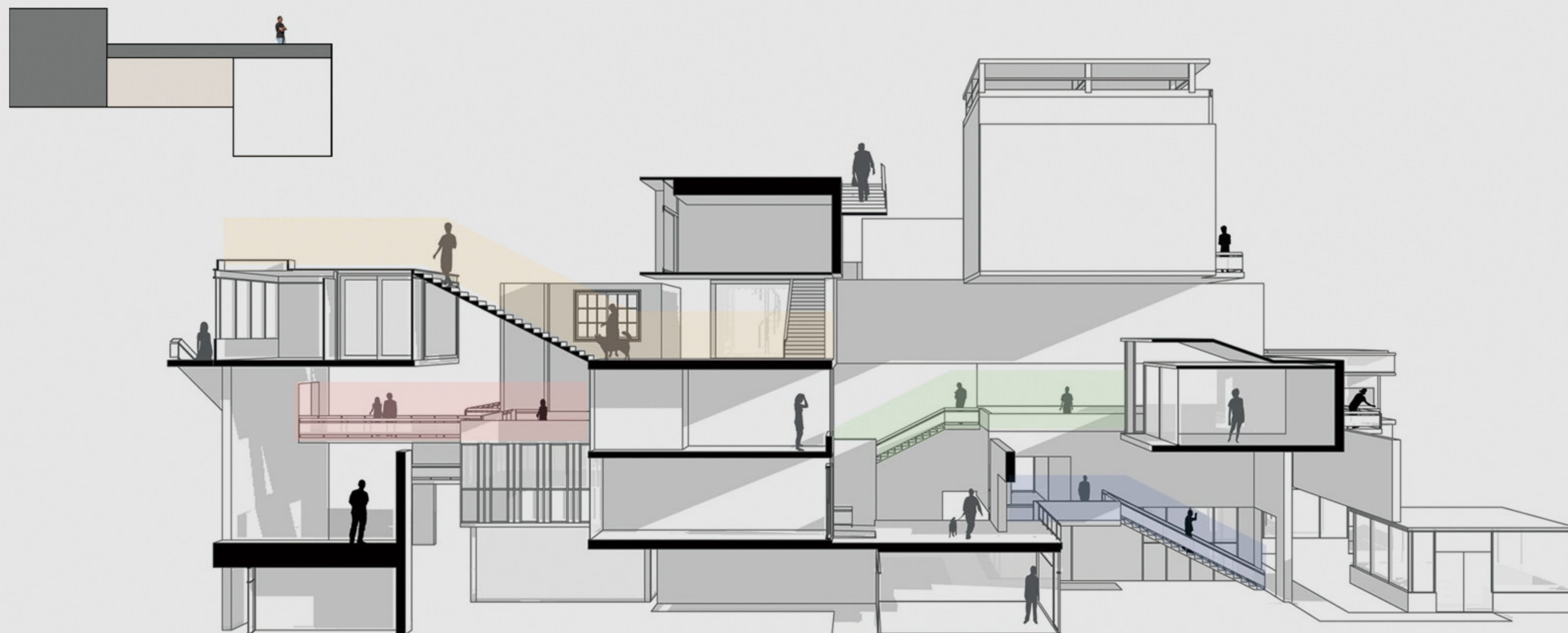


To consider the relationship about housing and wall, than use of wall height to resist visual penetration on different directions. to define each area. Those public place are also exchanging between different households and households, Each household's roof will be open, as the circulation to reach other household.

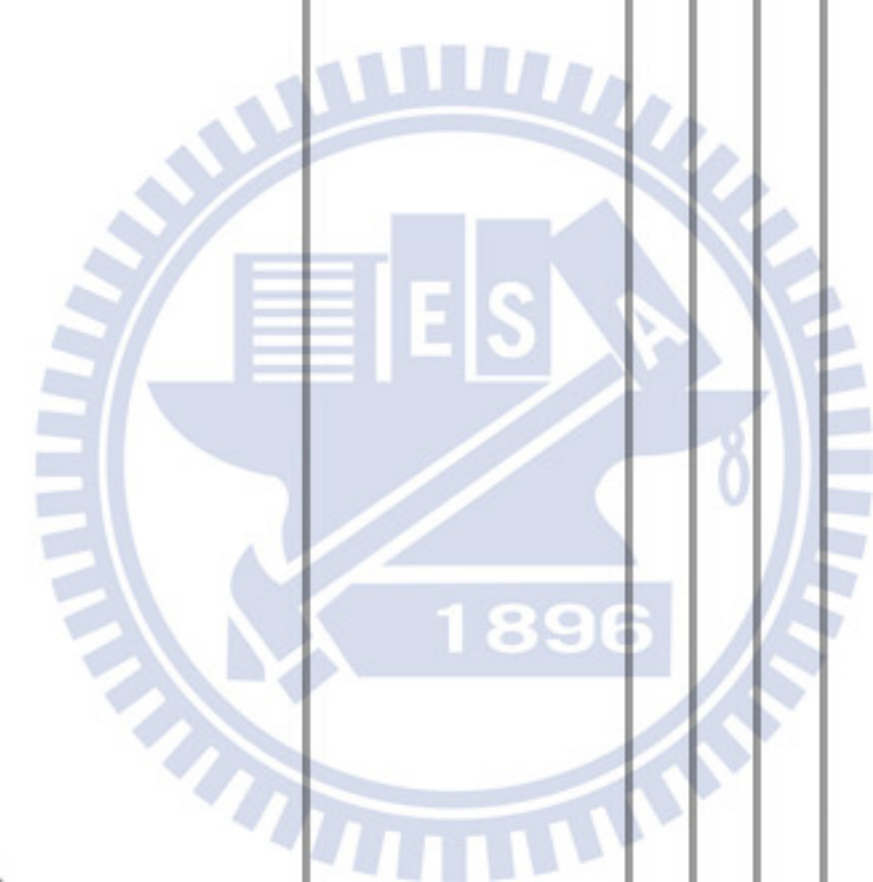
Wall or the height to control the visual public and privacy



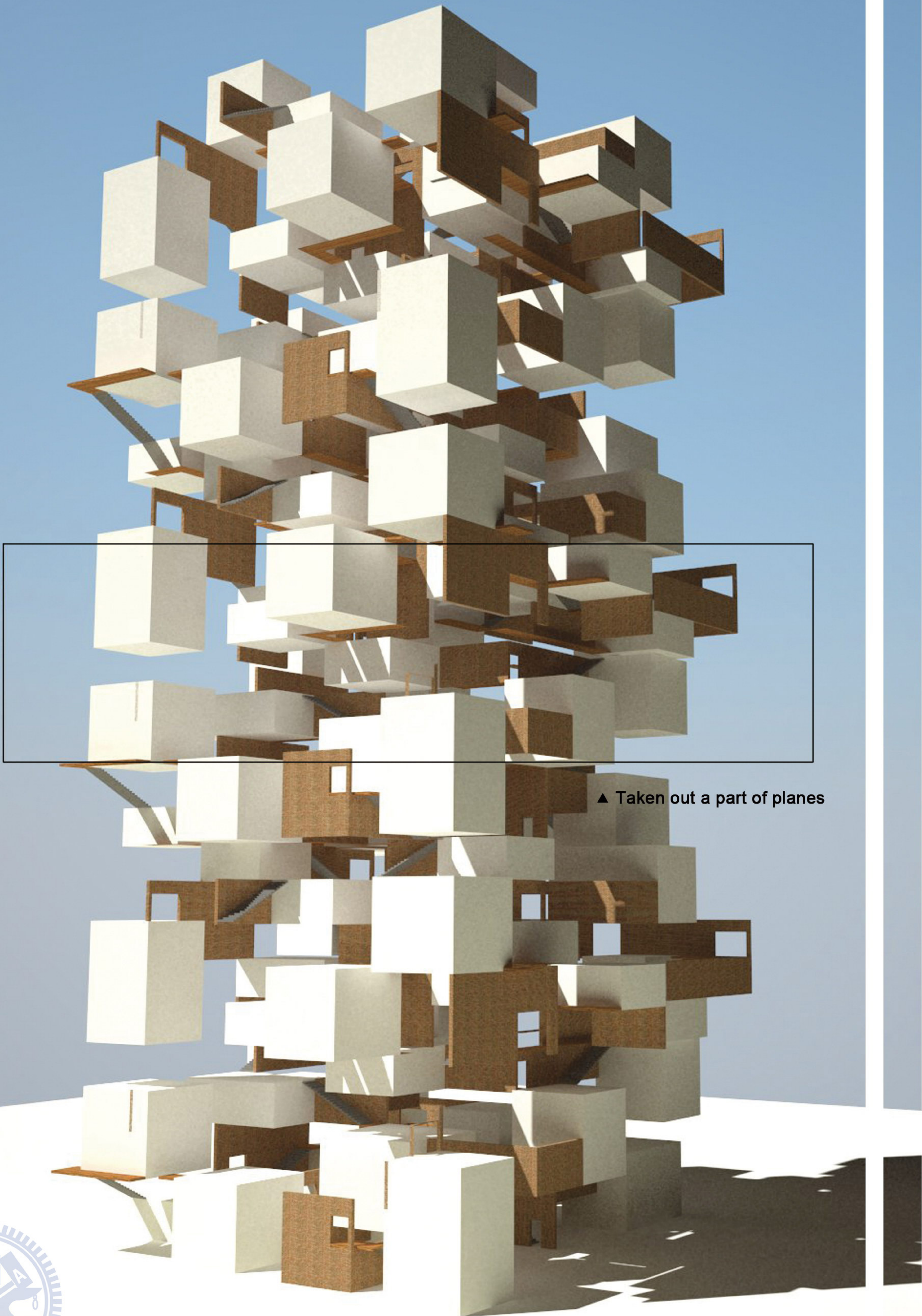
Use continuous circulation to connect open space

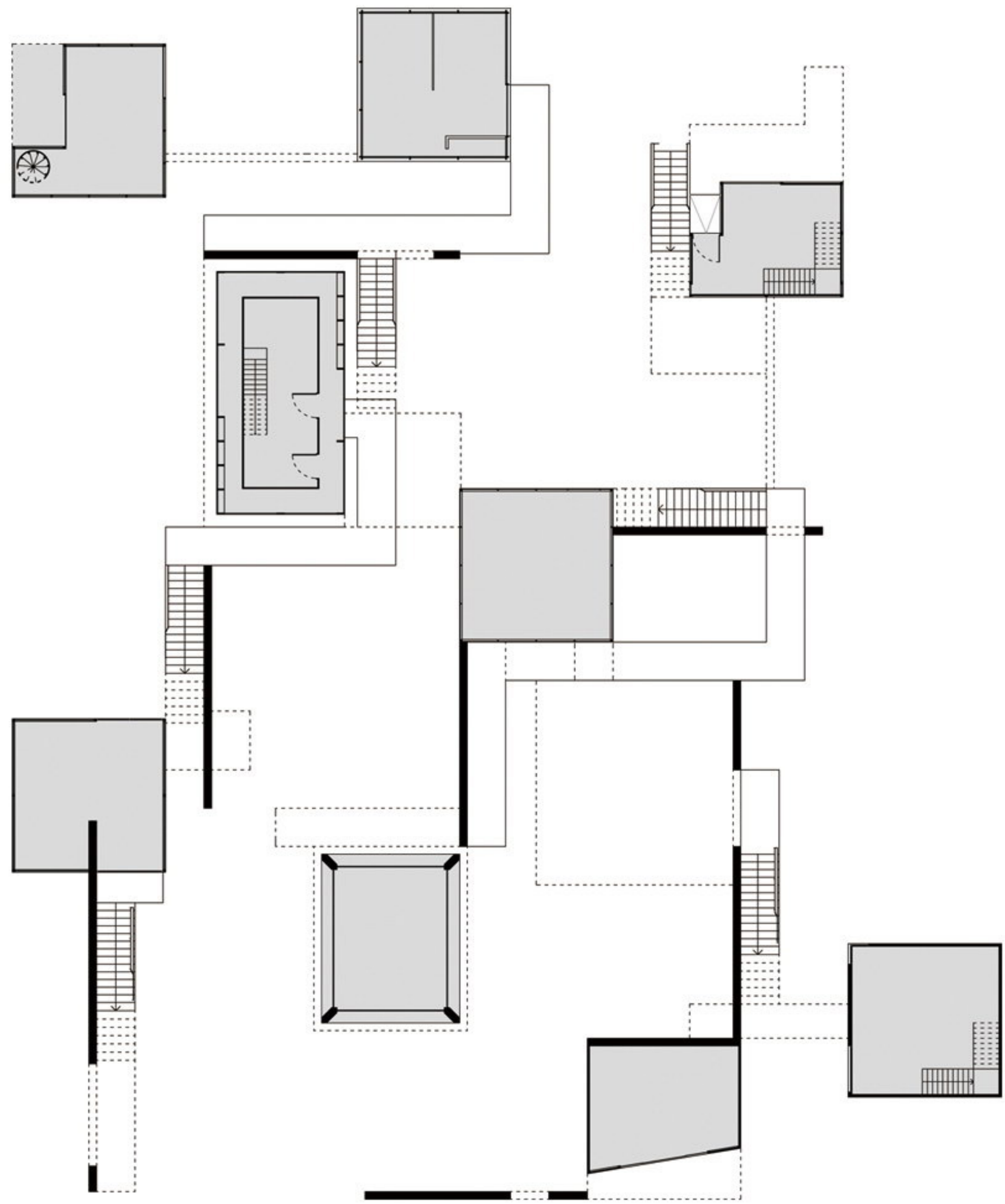


Create a communication center to connect to the neighborhood

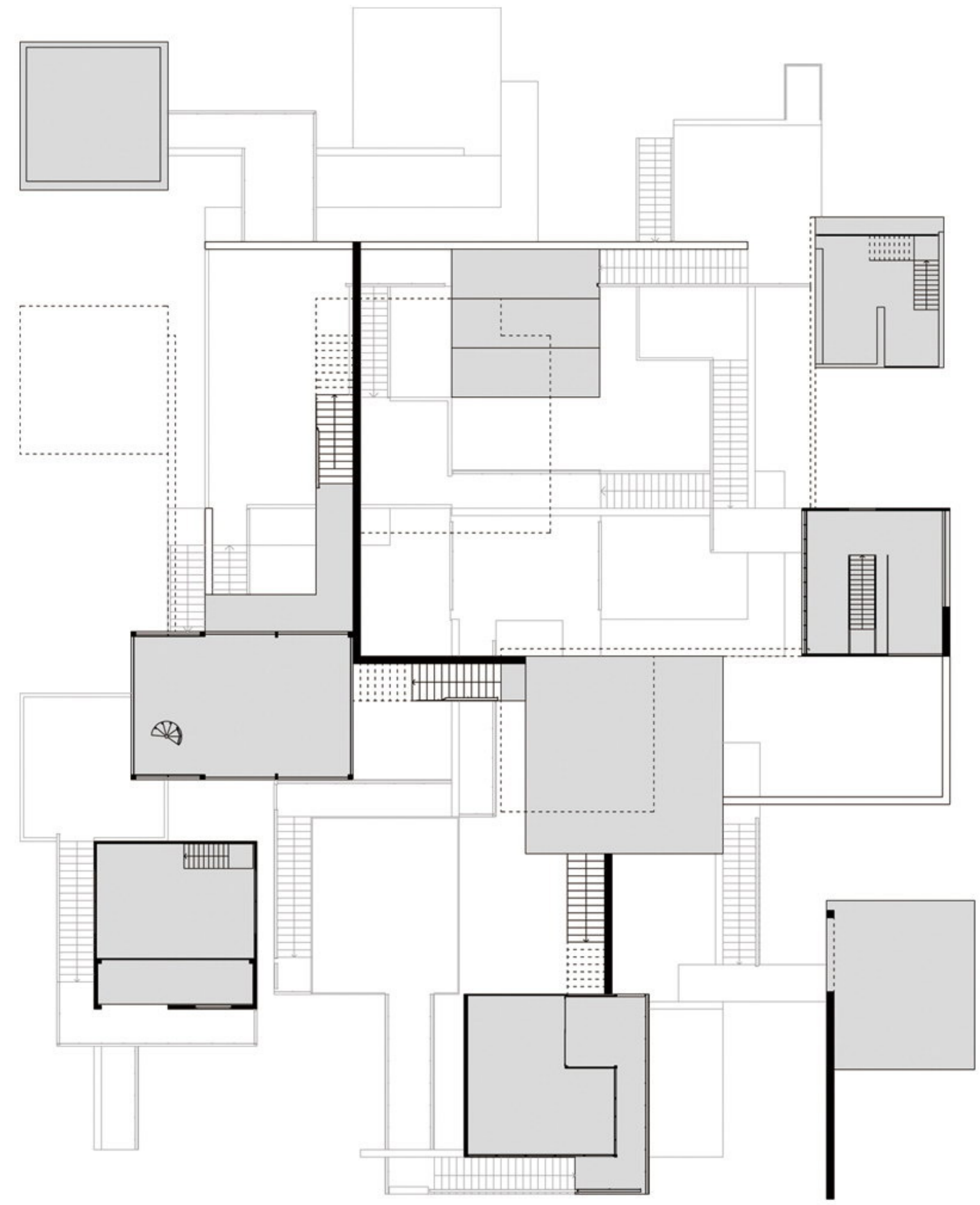


On top of plane is based on below of plane to build the configuration. The field of open space to determine the residential density and residential circulation to determine the house's face and location. Let light and air can be uniformly given to each family's home to promote the living quality.

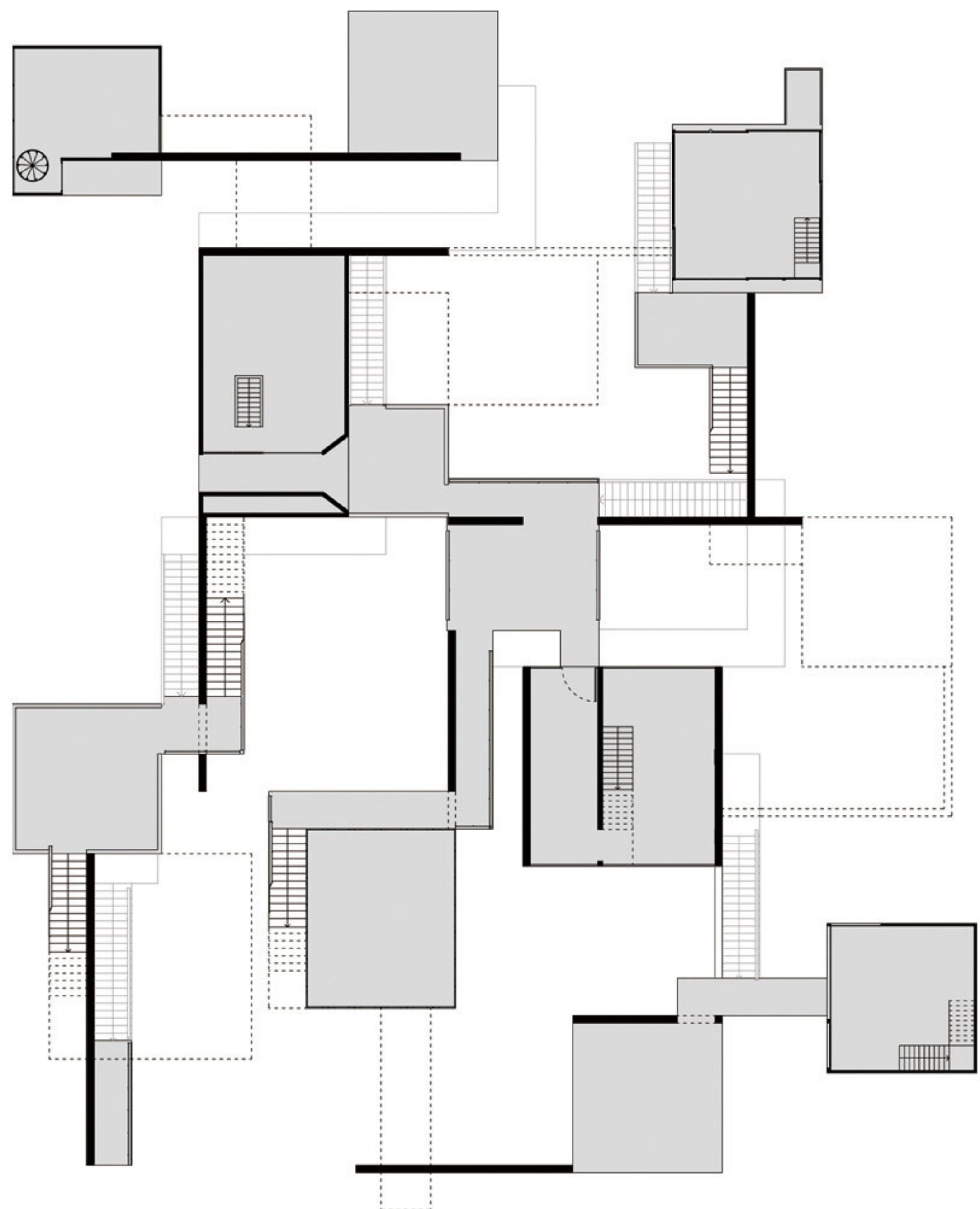




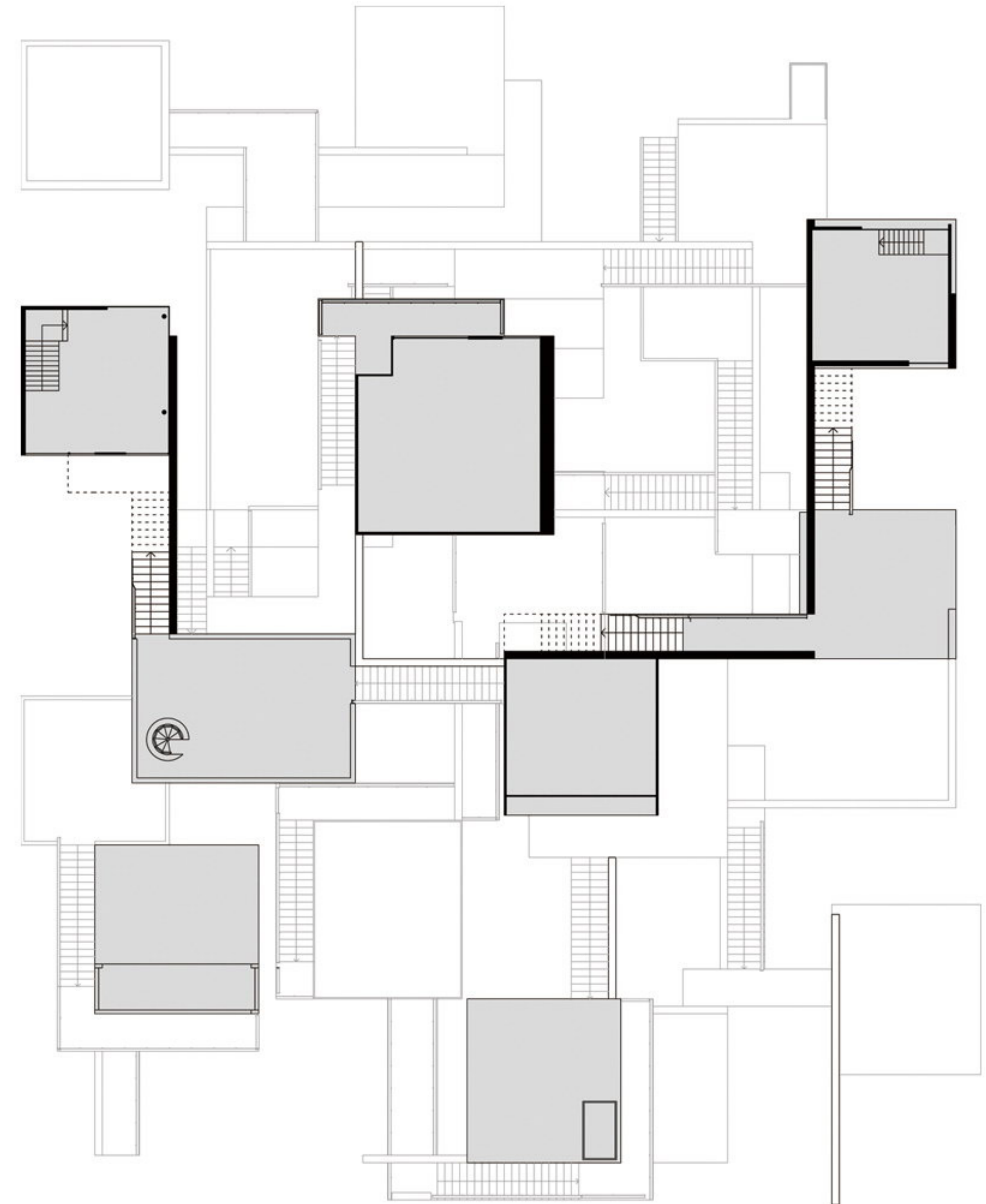
N floor



N+3 floor



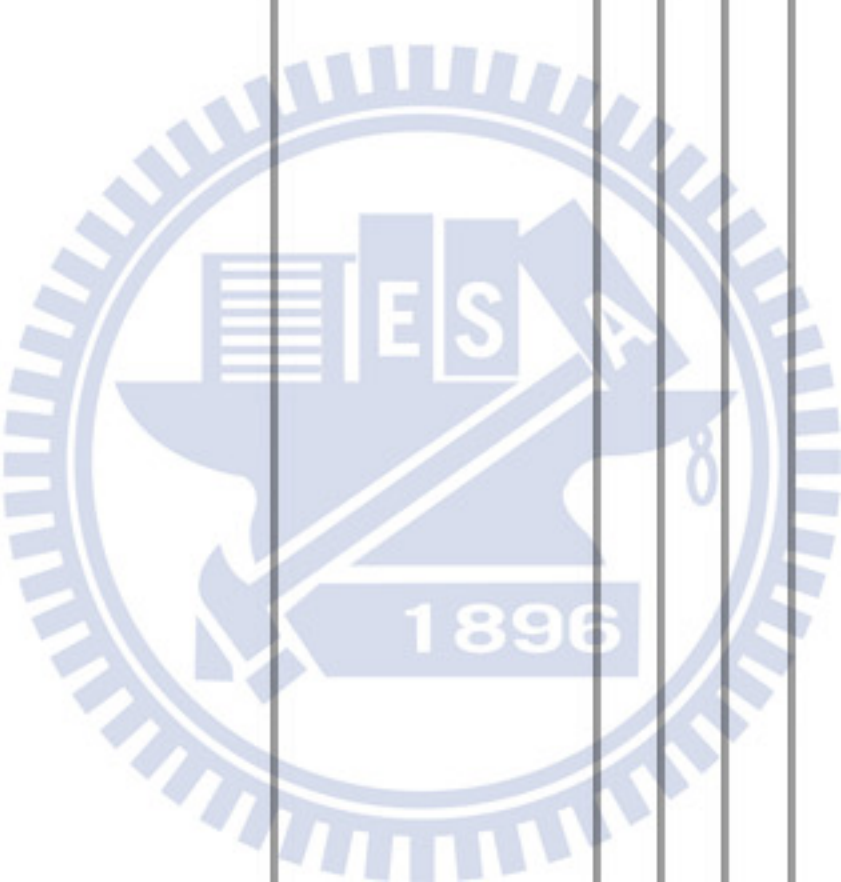
N+1 floor



N+4 floor



N+2 floor





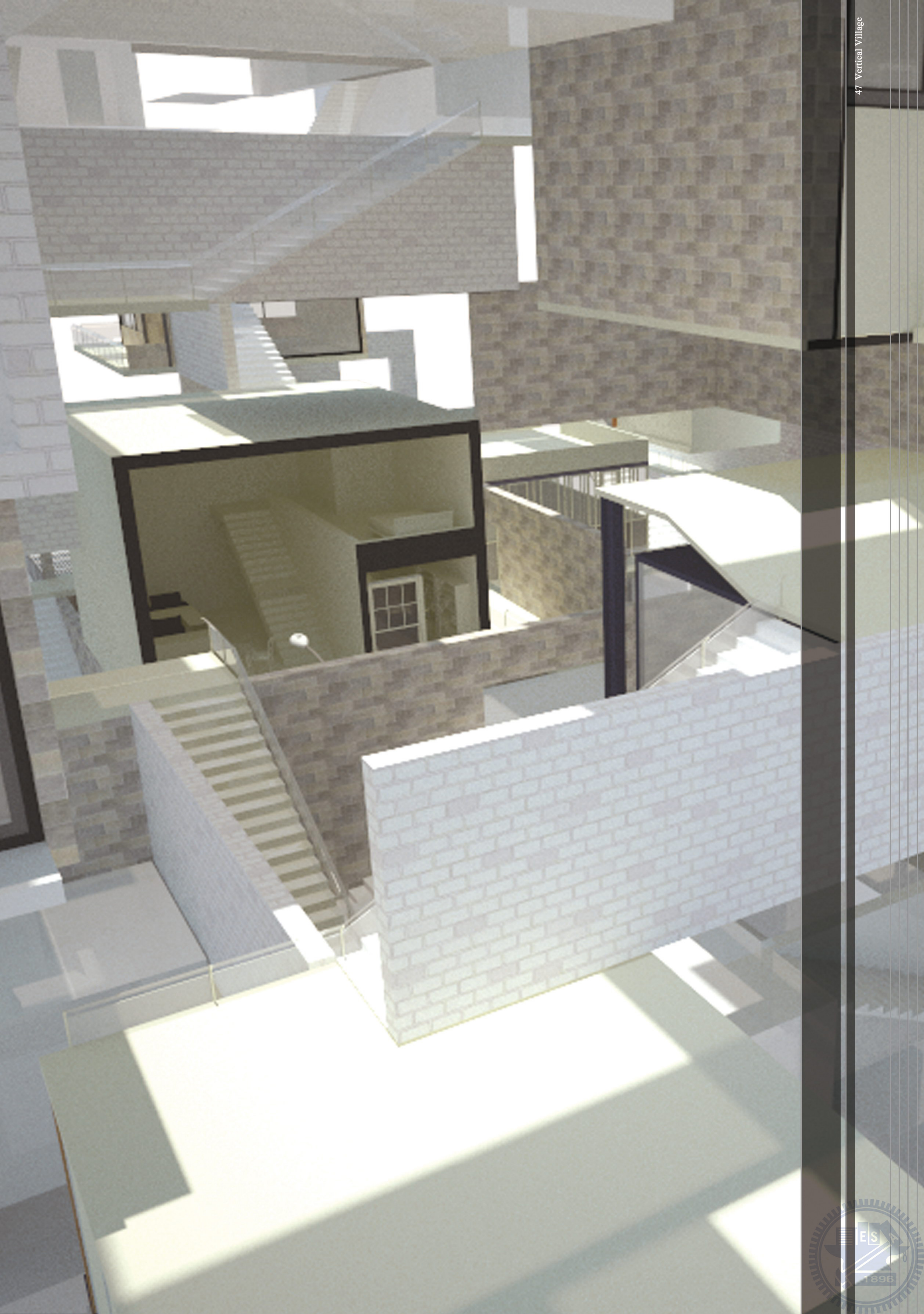
Intricate living space



Interaction of public space



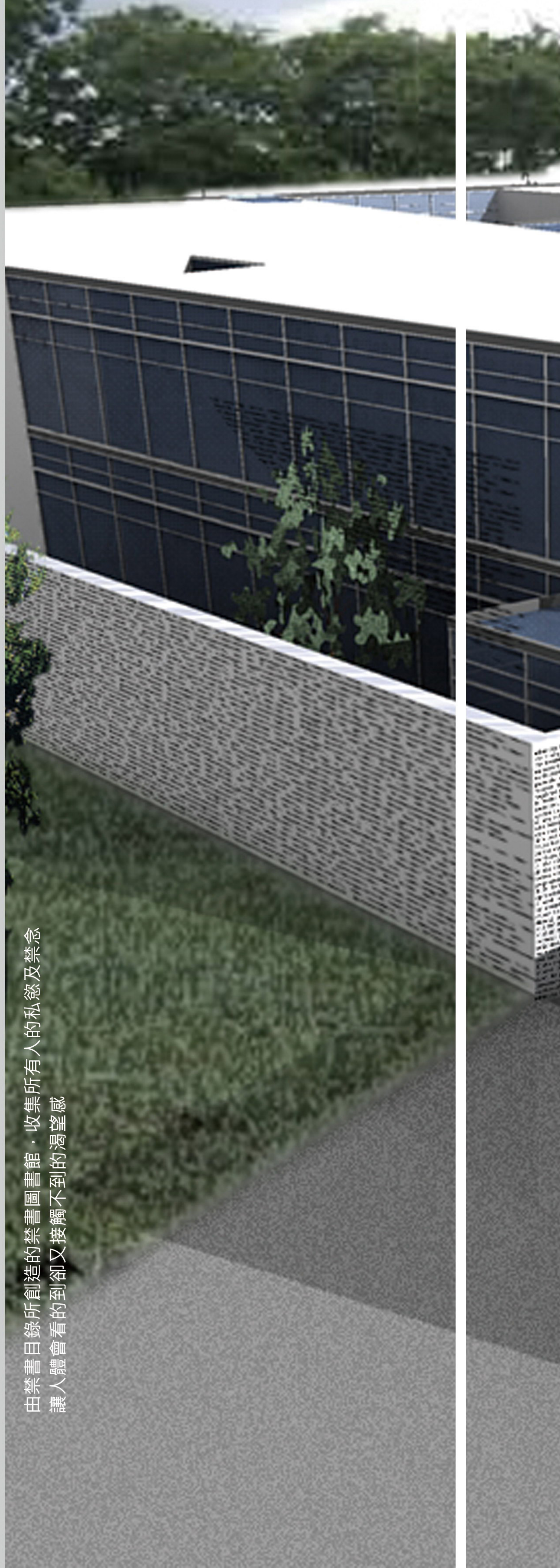
Controlled the sight range



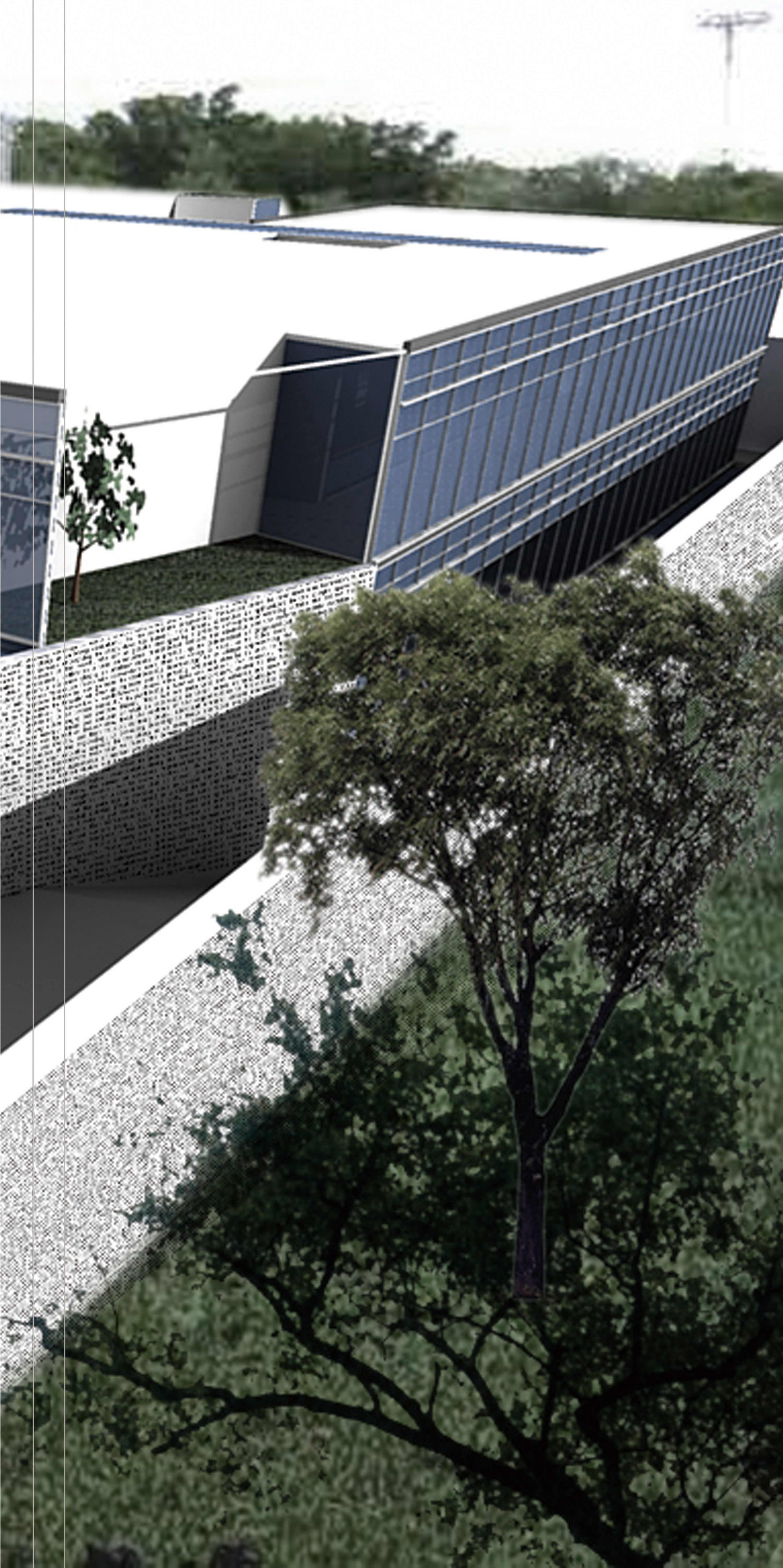
# Forbidden Bibliothèque

Let people to experience the desire about that someone can see but not to touch

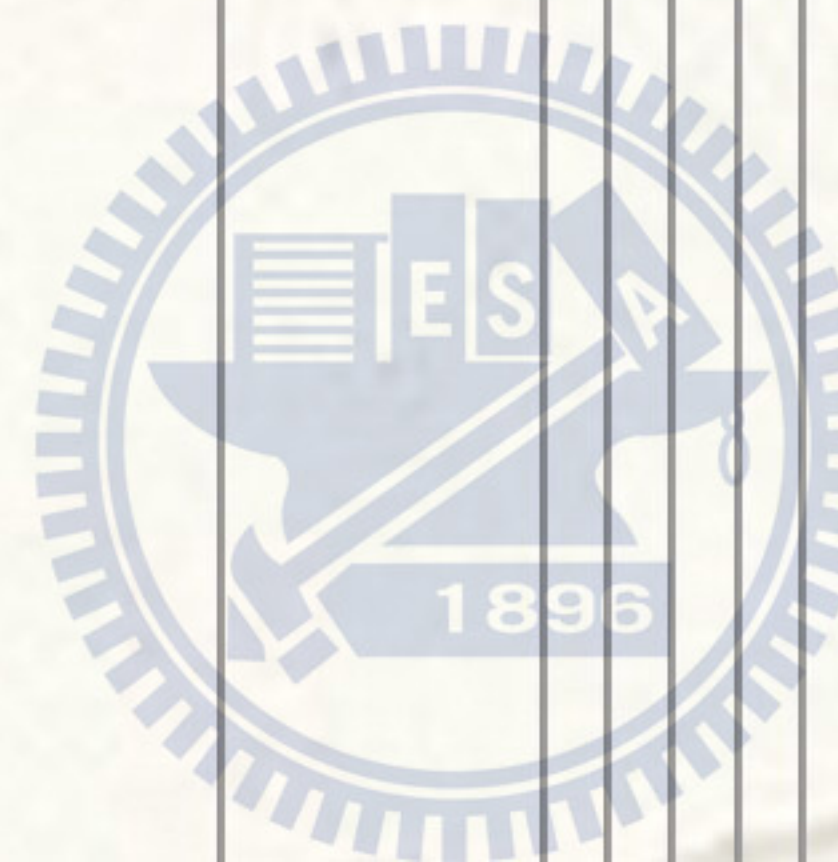
由禁書目錄所創造的禁書圖書館，收集所有人的私慾及禁念  
讓人體會看的到卻又接觸不到的渴望感





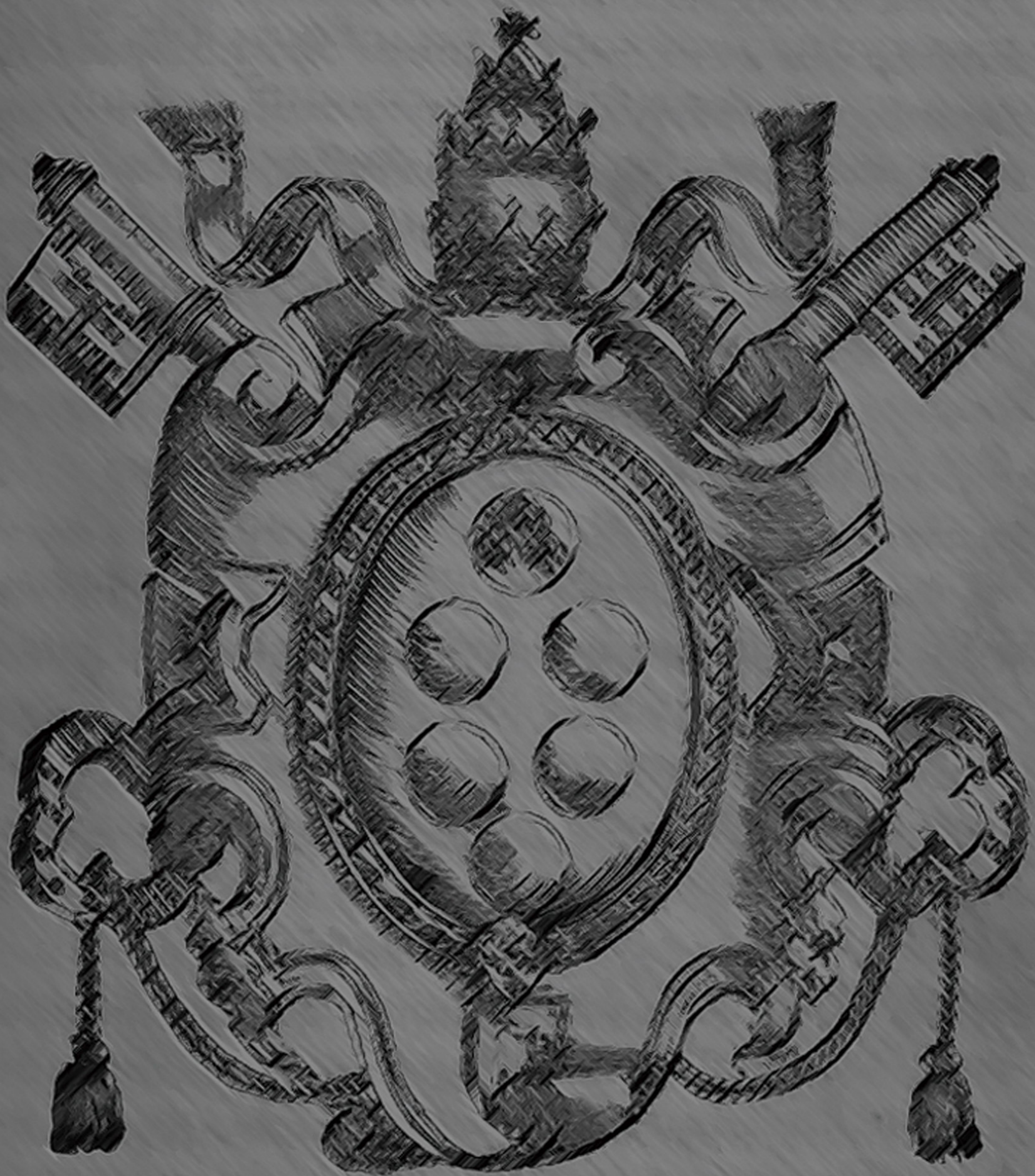


INDEX  
ORVM  
ORVM, CVM  
fectis, per Patres à  
ino Synodo delecto  
RITATE PII  
postea vero a Syxto  
EMVM S.D.N.CLEM  
In recognitus, & publica  
VCTIONE AI  
la prohibitionis, de  
imprimendi libros  
SVS DE MAN  
Reuerendiss. Domini  
de Norogna Episcop  
sis, Inquisitoris gene  
Lusitania, &c,  
OLISIPONE.  
d Petrum Craesbe  
Anno M, D, XCVI  
Christophori Ortega

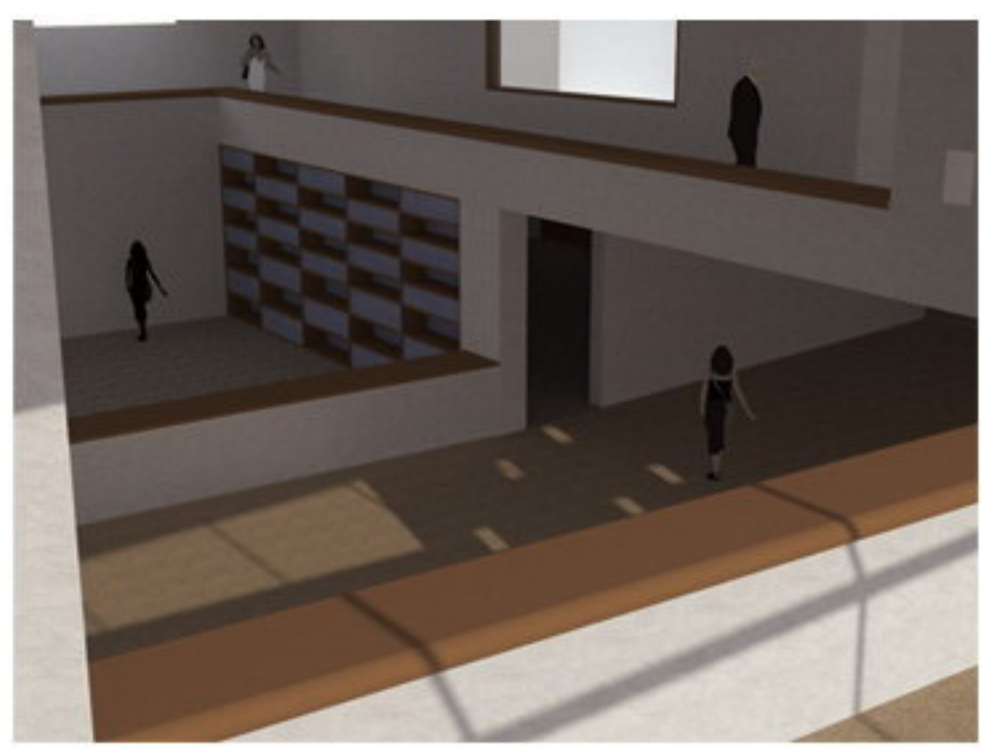


INDEX LIBRORVM  
PROMISSORVM

CVM REGVLS CONFECTIS  
PER PAVLVM KRECHVINGIVM SYNOLO GELICIVM,  
AVGVSTINVS SVAVICVS D. N. M. D. C. C. C. C.  
PONT. MAX. COMPTROBIVS.



V A N N I S M D C C C C



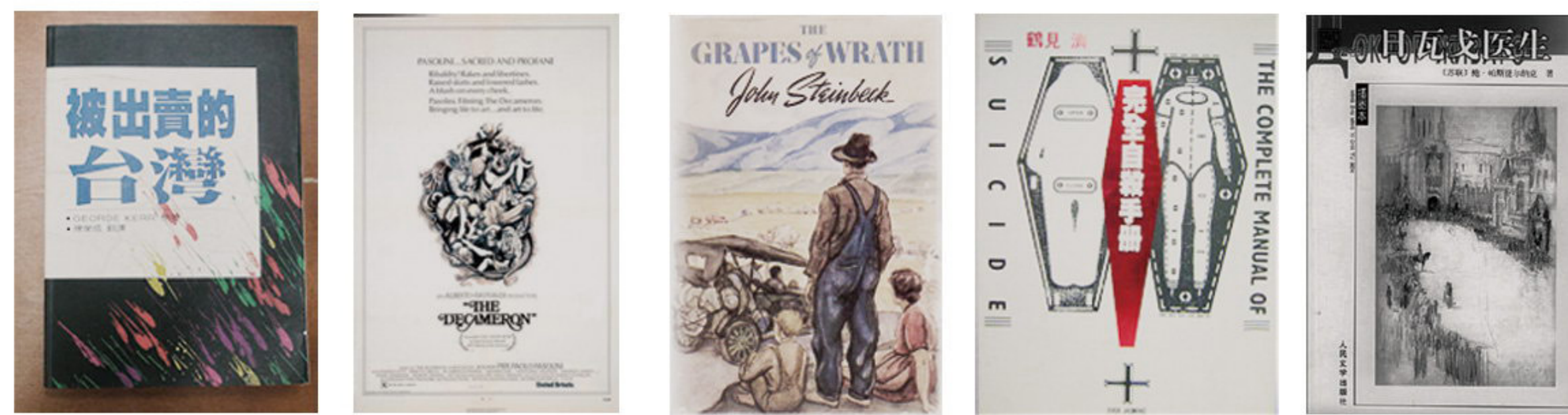
List of Prohibited Books:

"List of Prohibited Books" is a banned directory, directory of books or writings that Roman Catholic Church considered "dangerous". The content harmful to Catholic faith and morals. Which in the "List of Prohibited Books" books or writings, are strictly prohibited the printing, importation and sale.

"List of Prohibited Books" publication want to prevent the followers to read that the Catholic Church consider immoral, containing theological errors and lead to corruption of the books, Catholic writers also take advantage to defend their own writings and work. "List of Prohibited Books," first published in 1559, a total of 32 revisions, ceased publication in 1966.

Prohibited Books:

Because factors such as the society, sex, politics, religion etc..., and disappear and hold the works of the social environment or political person in power at that time.



Bibliothèque's space design

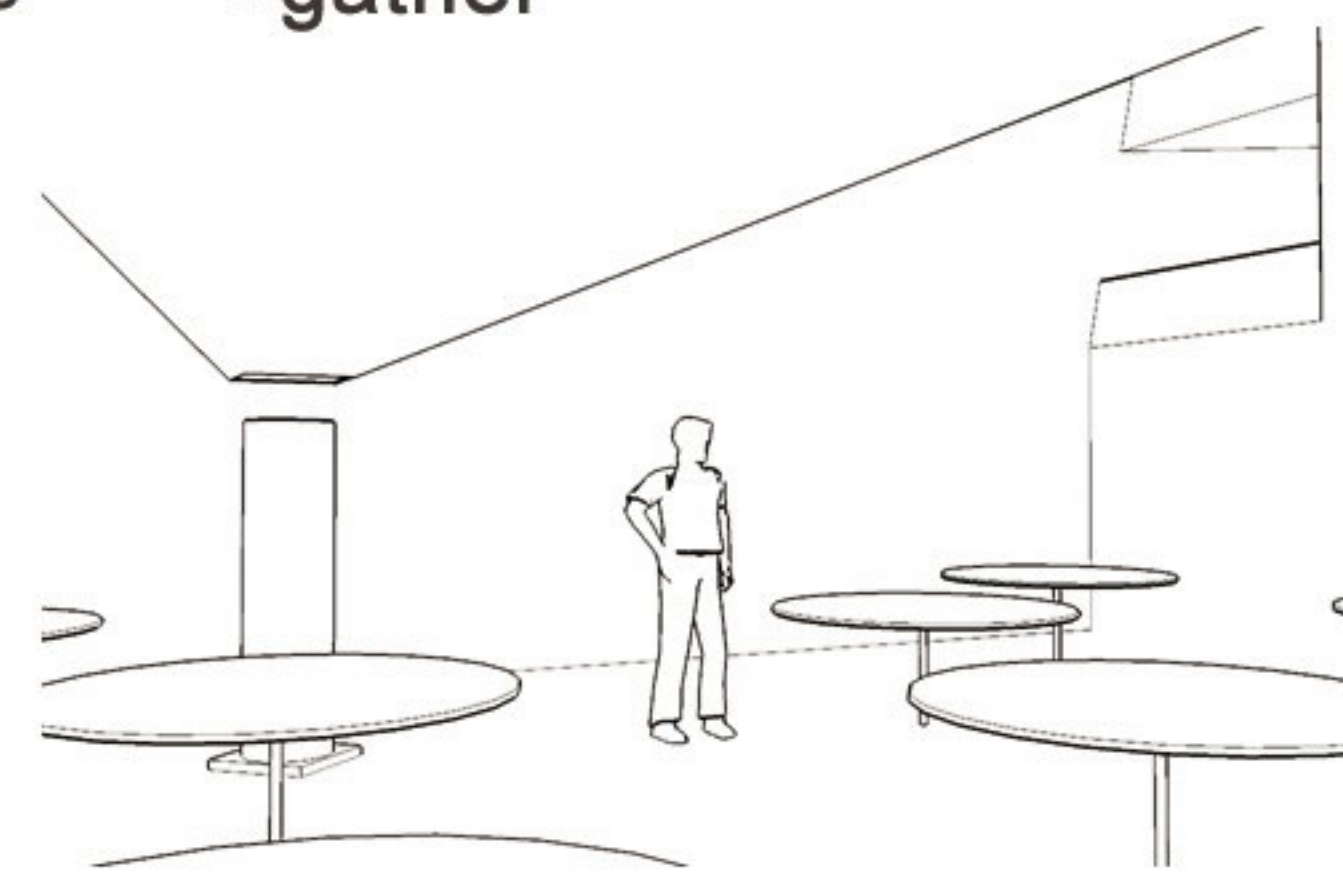
Political element

- transparent bookcase
- library ordered books and politician's books



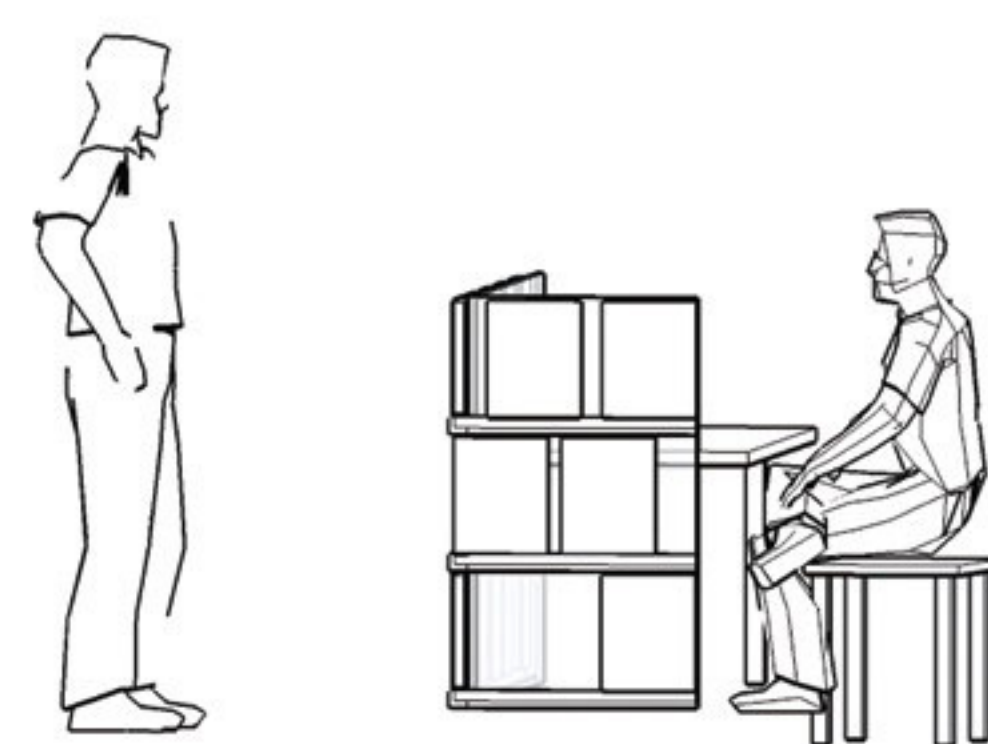
Religion element

- inviolable space
- gather



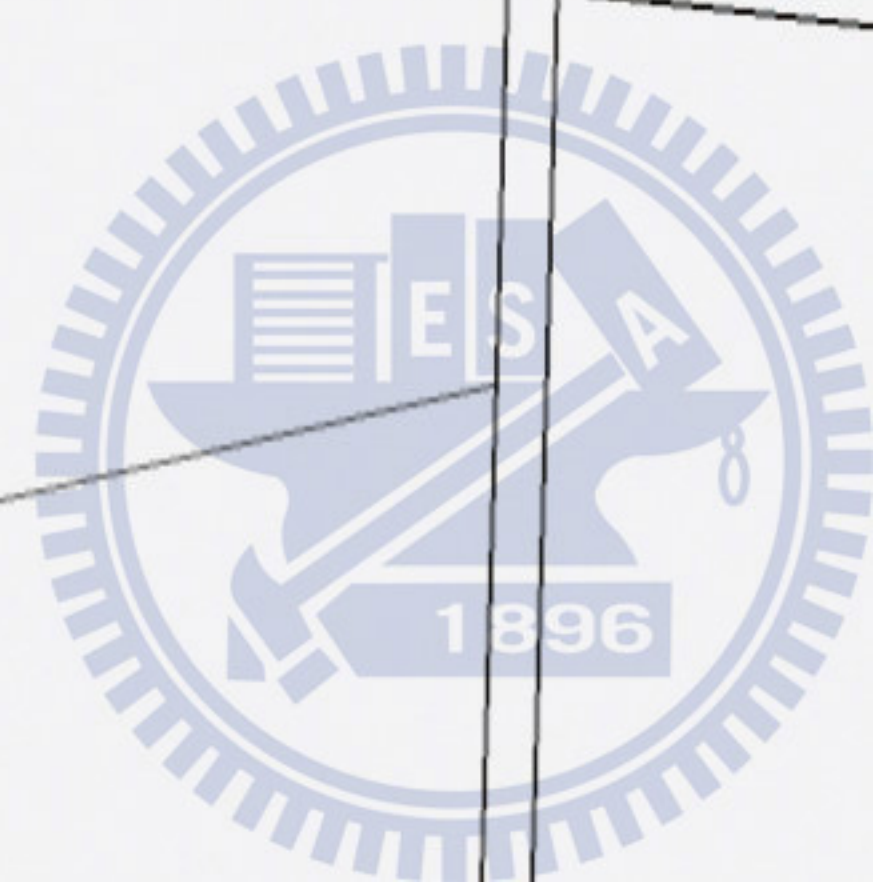
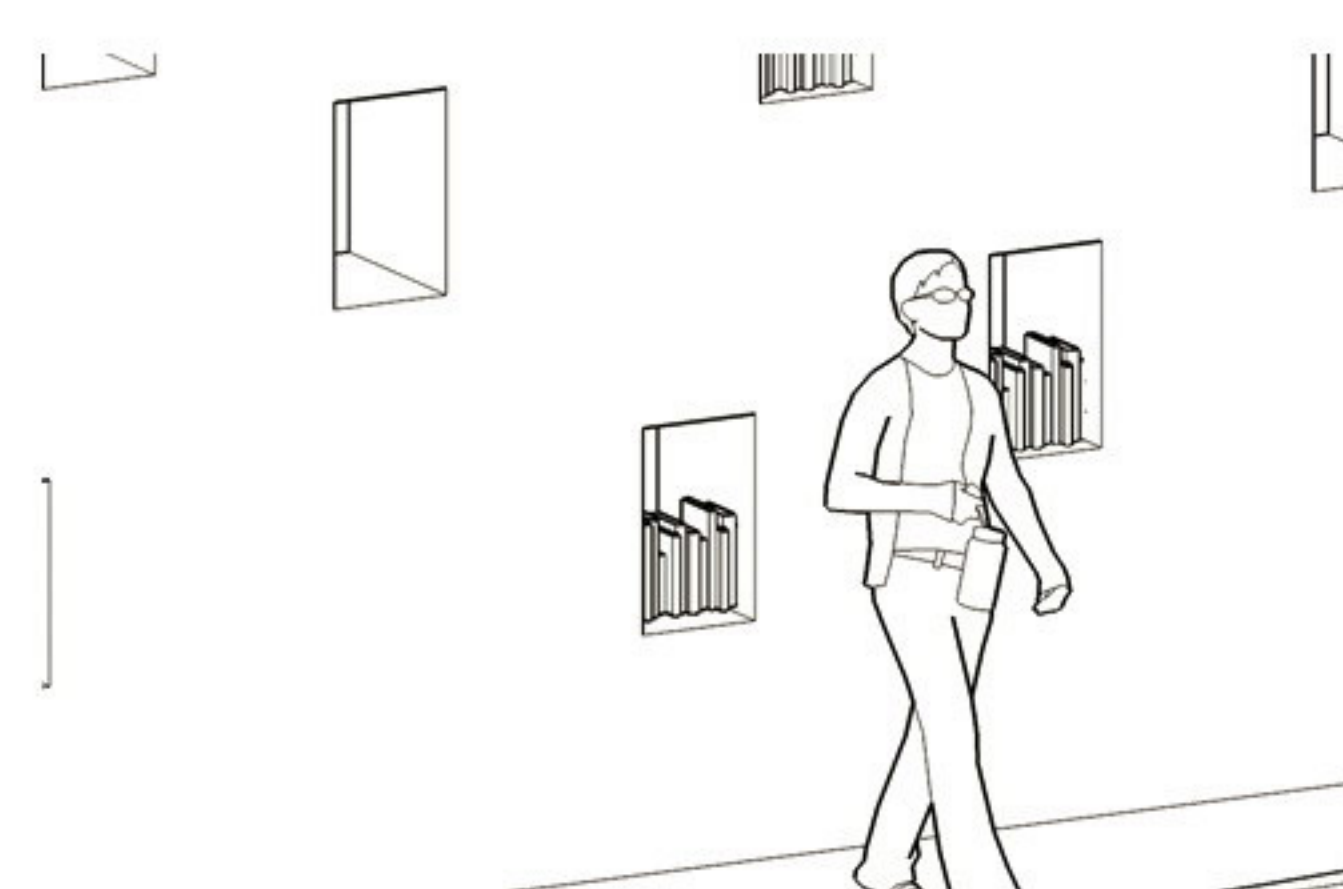
Porno element

- exhibiting books
- non-hidden seat

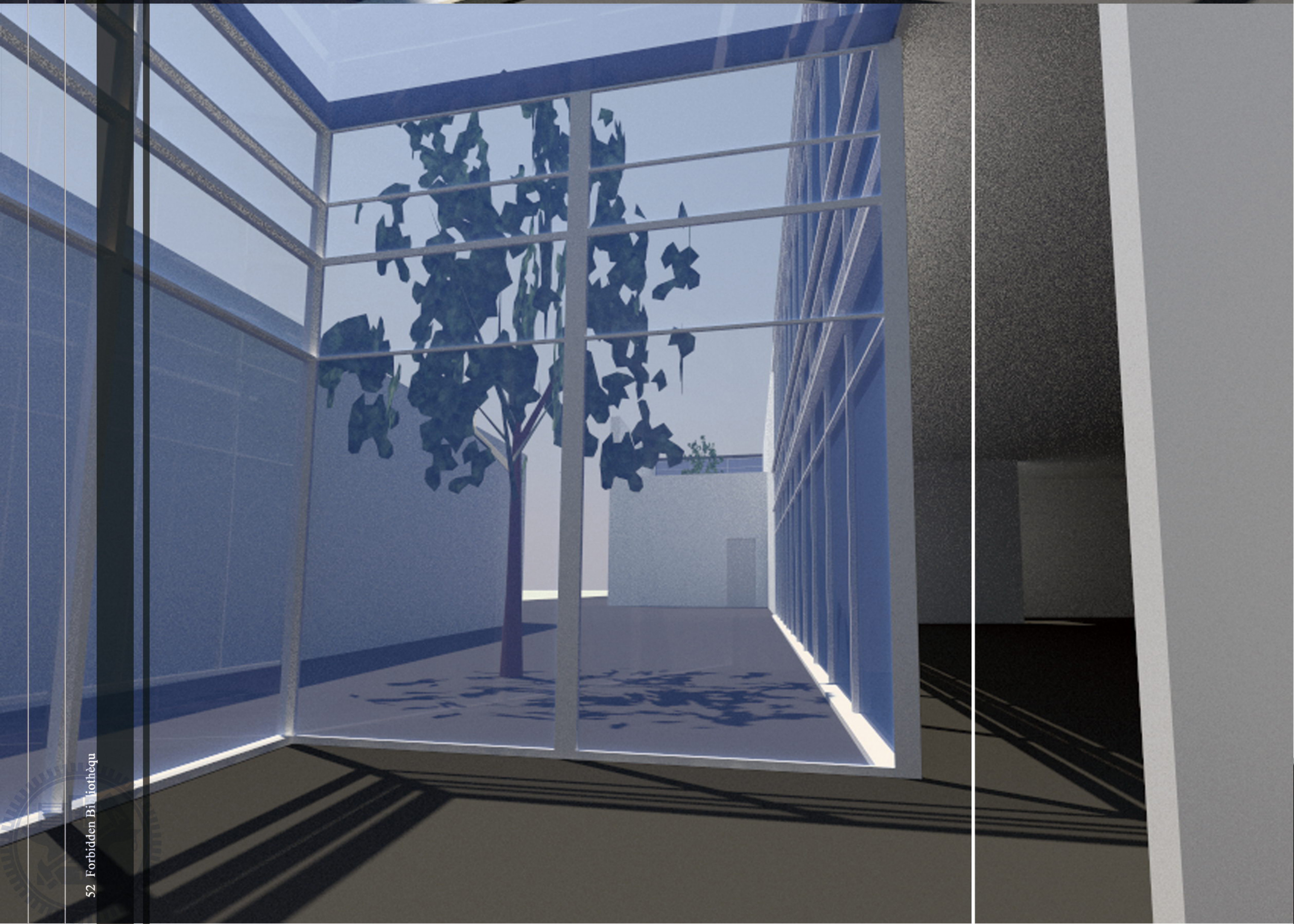


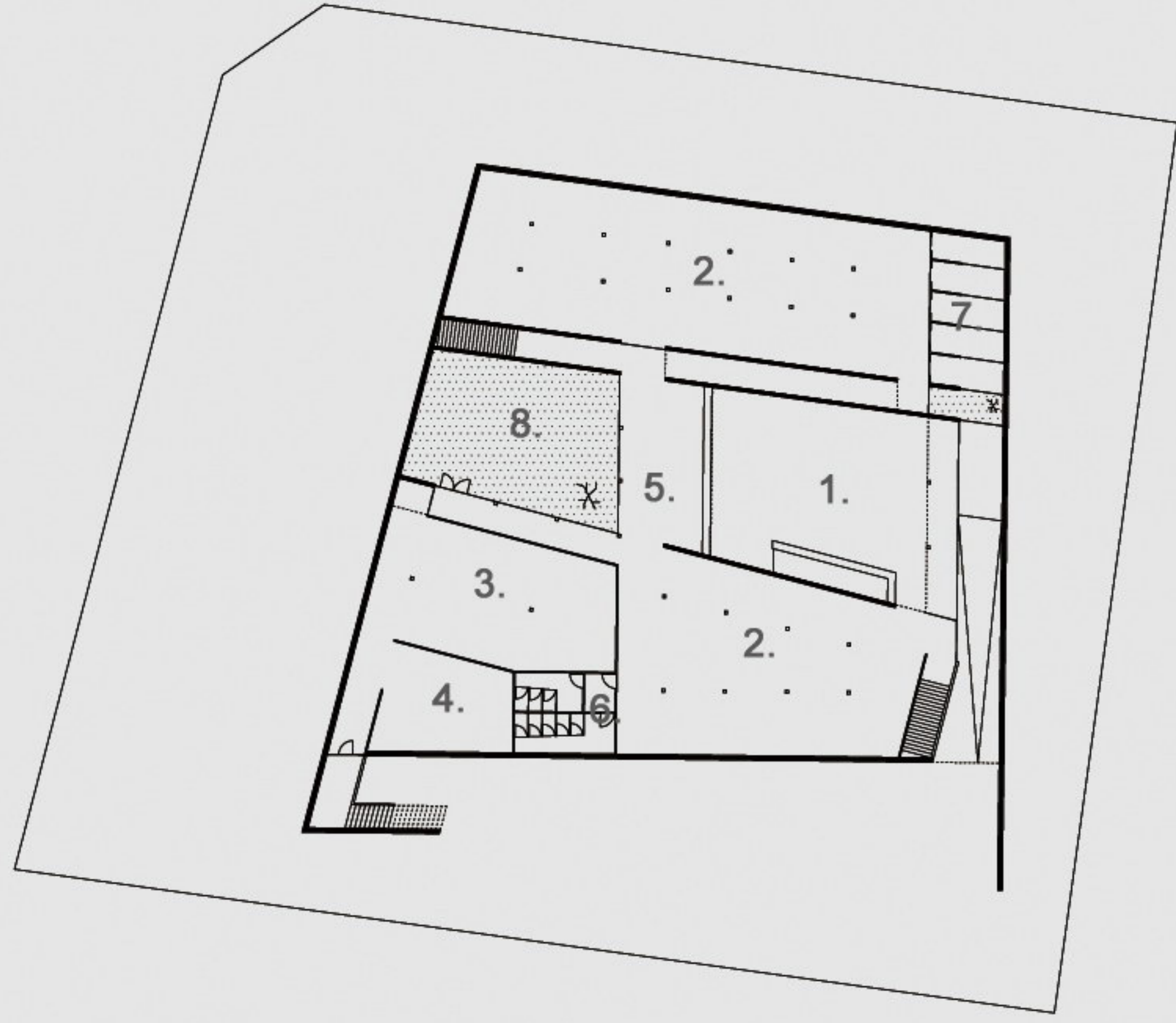
Culture element

- the current political situation
- short period

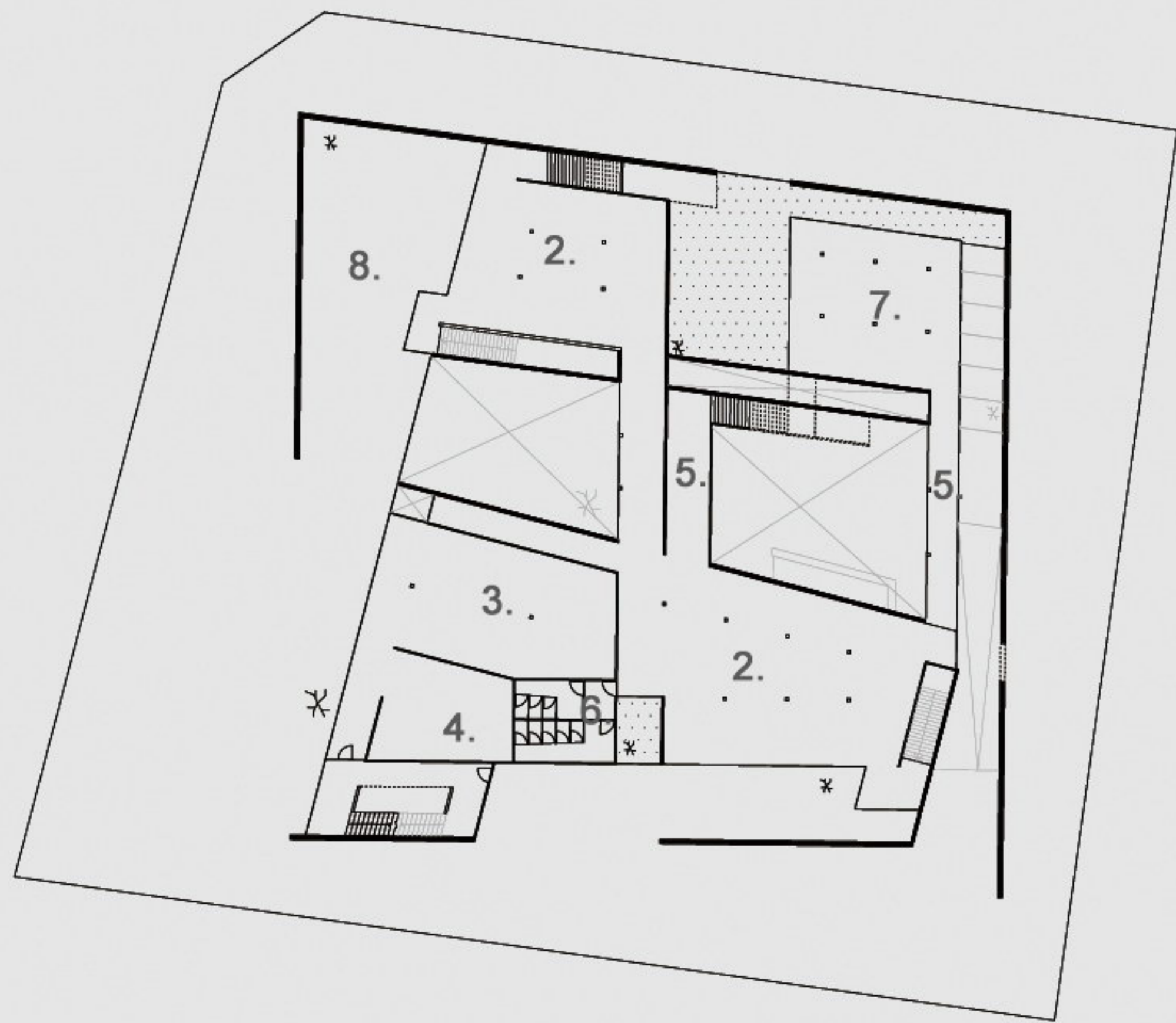


Intermediary space is defined between interior and outside, and belongs to any side. Circulation's division, space court, and the cut out wall continuously anew define the range between interior and outside. Moreover it mix up the existence of intermediary space. As if it discusses the face and content relationship of "List of prohibited books".

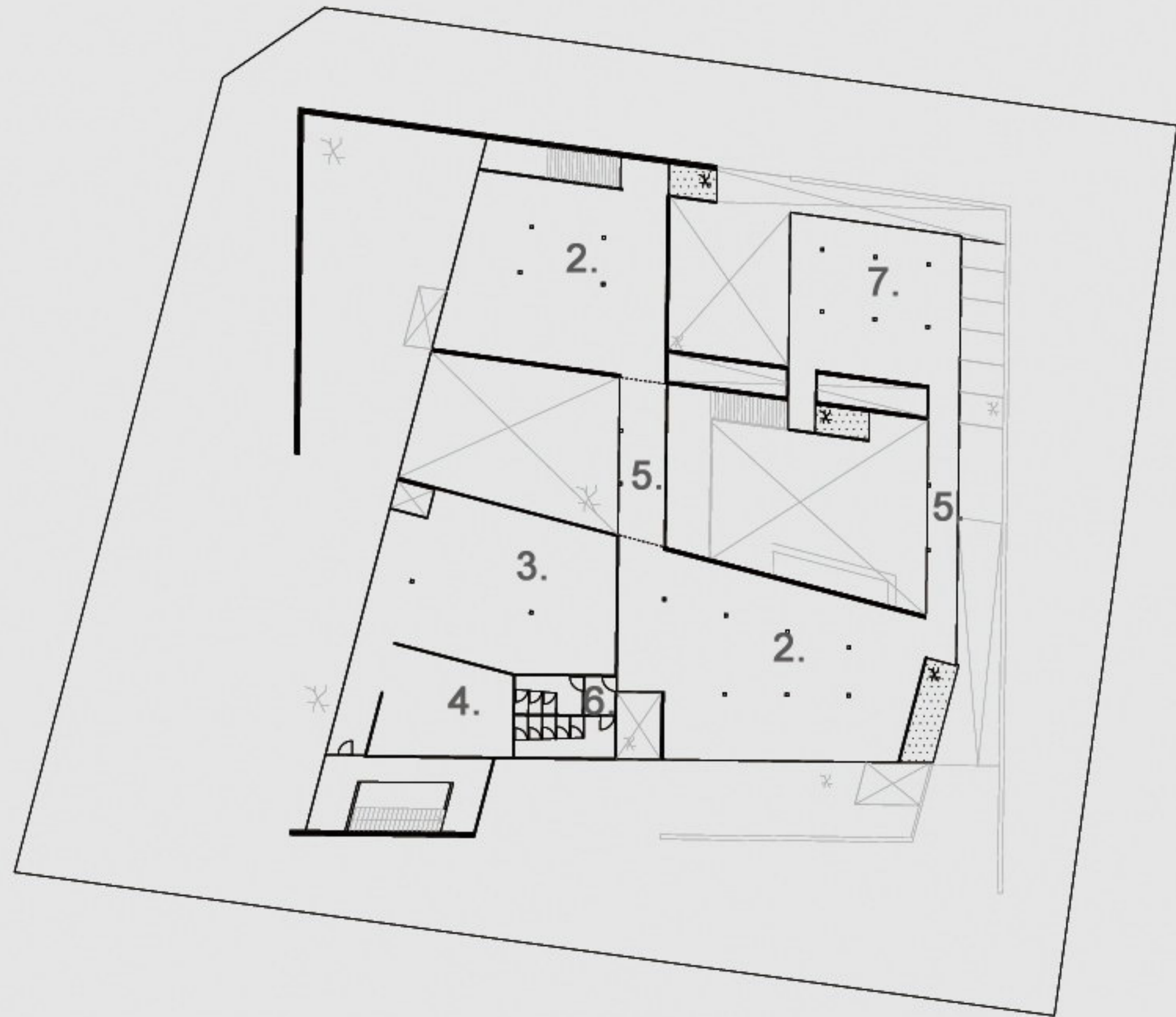




Ground floor

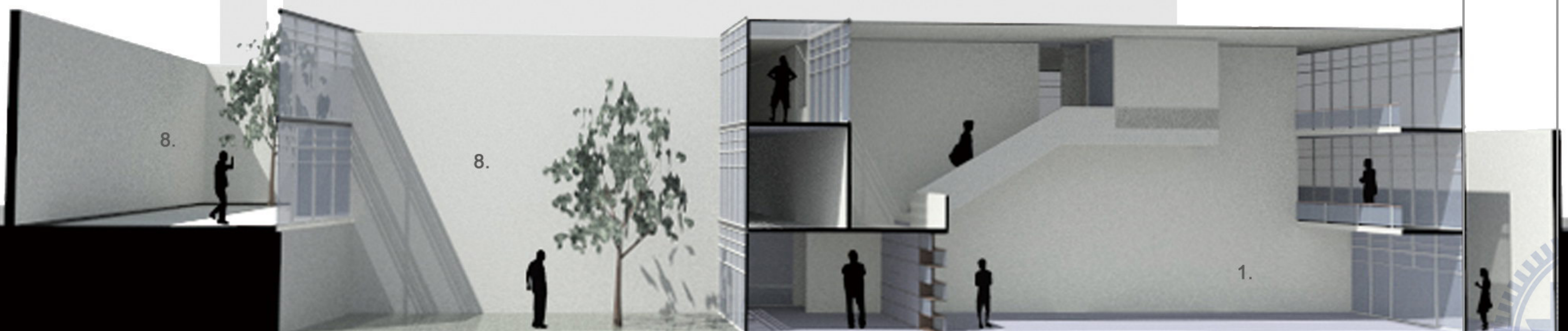


First floor



Second floor

- 1. Lobby
- 2. Open-shelf library space
- 3. Close-shelf library space
- 4. Office
- 5. Corridor
- 6. Lavatory
- 7. Reading room
- 8. Courtyard



In this process, from organiza writing tools to imagine the micro-environment, and then go to the library's design. The "issues" into the building, making building has discussion's opportunity. What do I want to create? what is most important thing? Not that space experience to create space, but that let issues to lead the design. Let the issues with experience and the design opportunity.



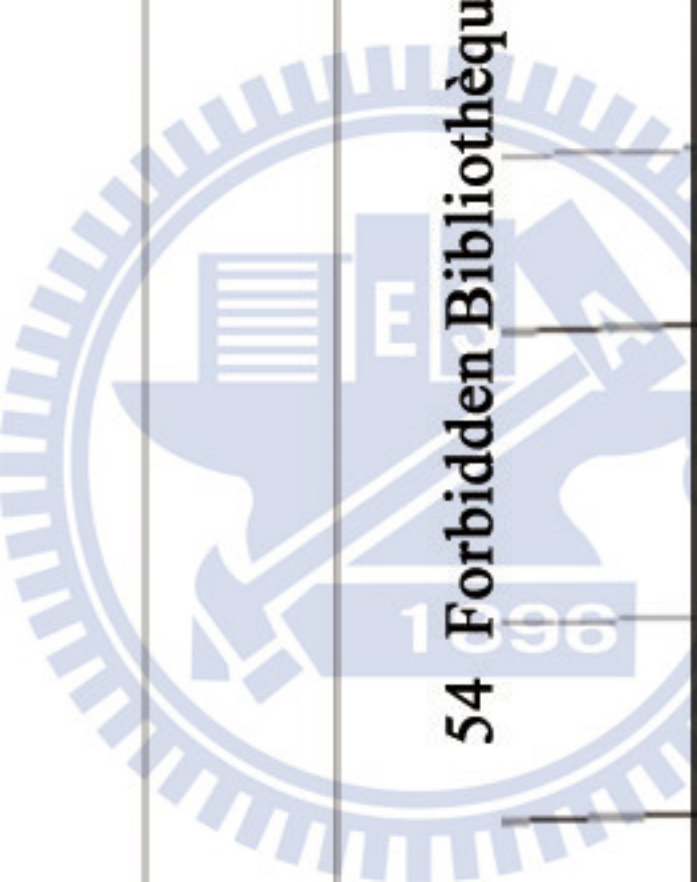
Peep Corridor

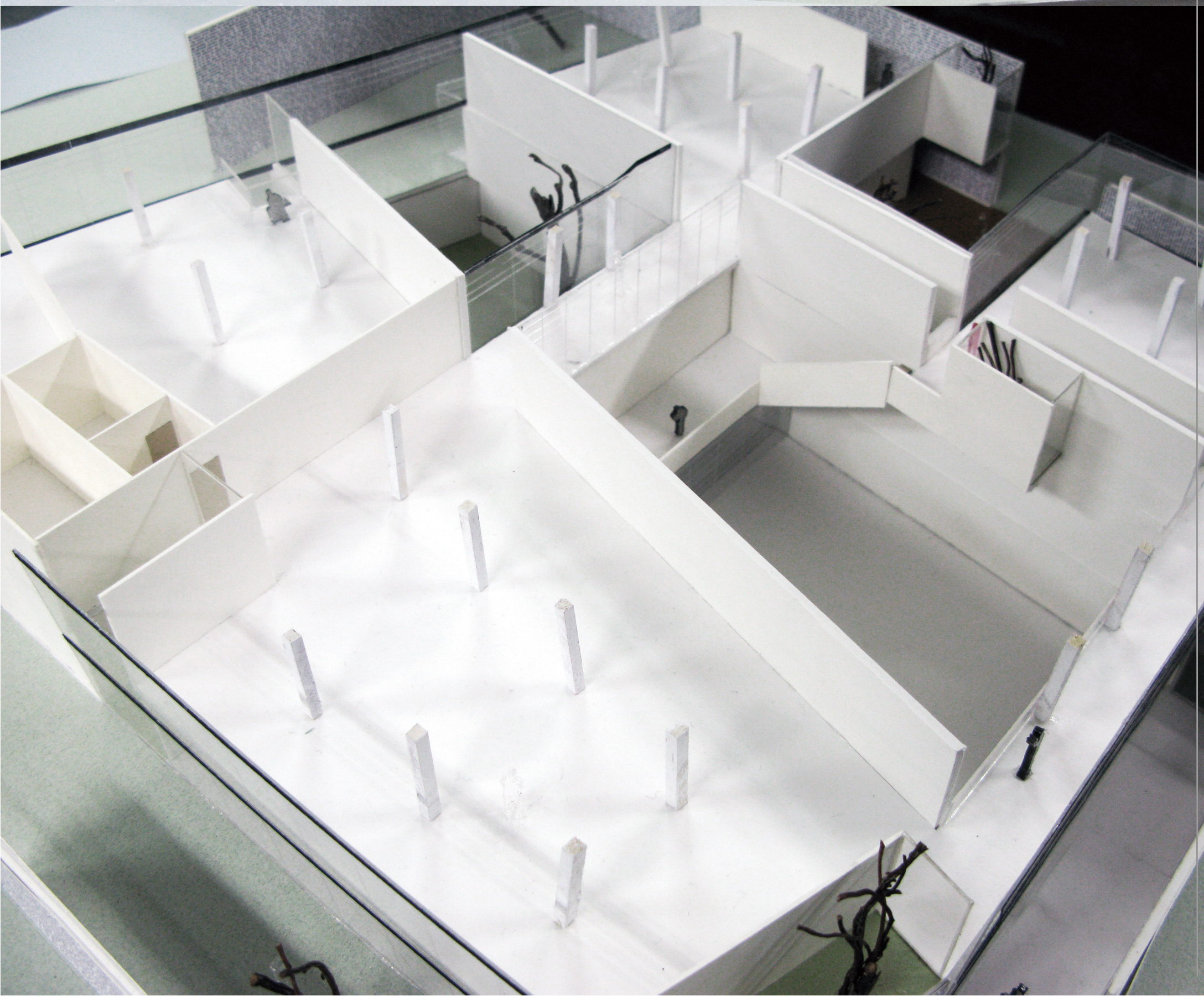
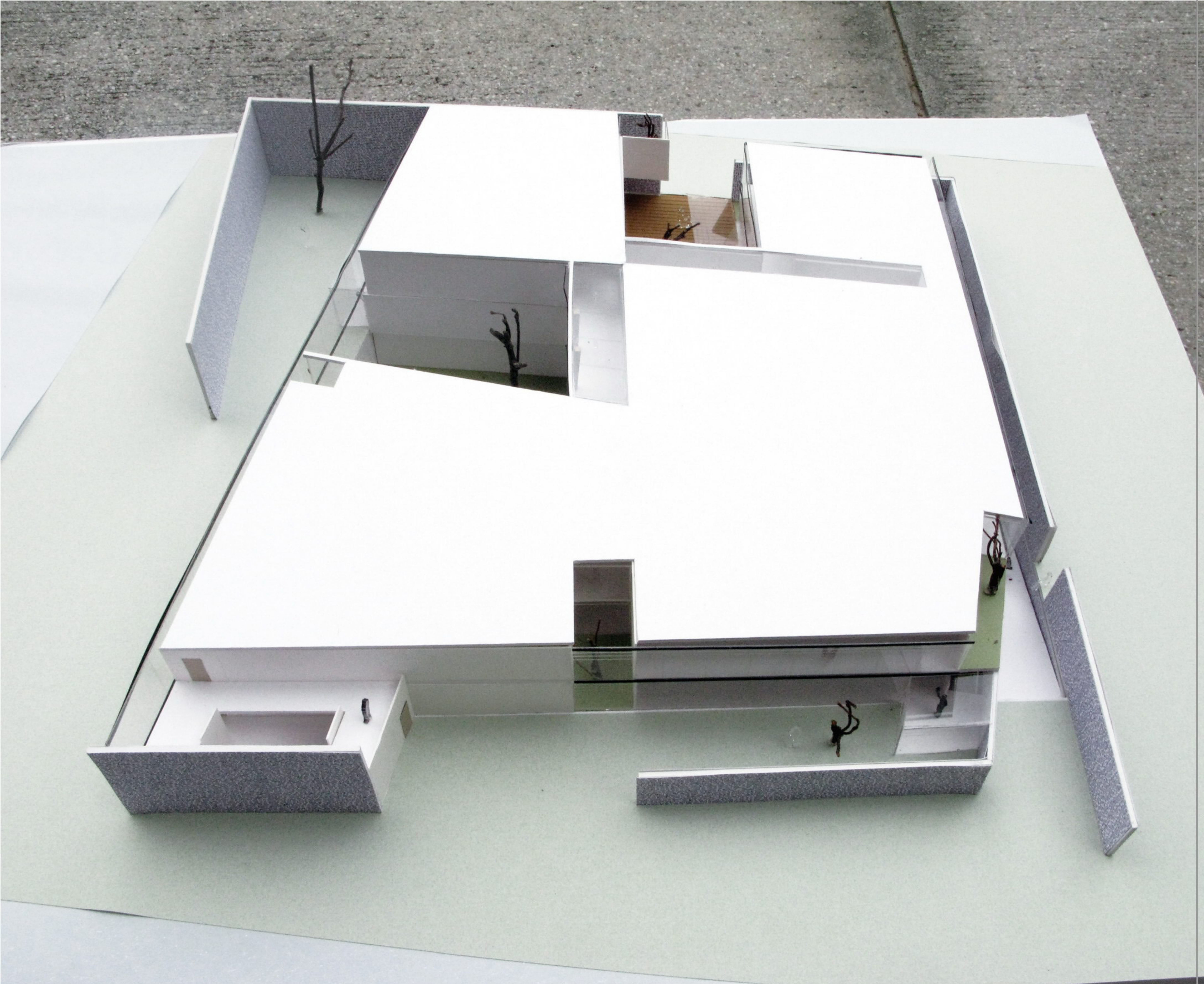


Just visual spcae without entering



Multi-level Lobby

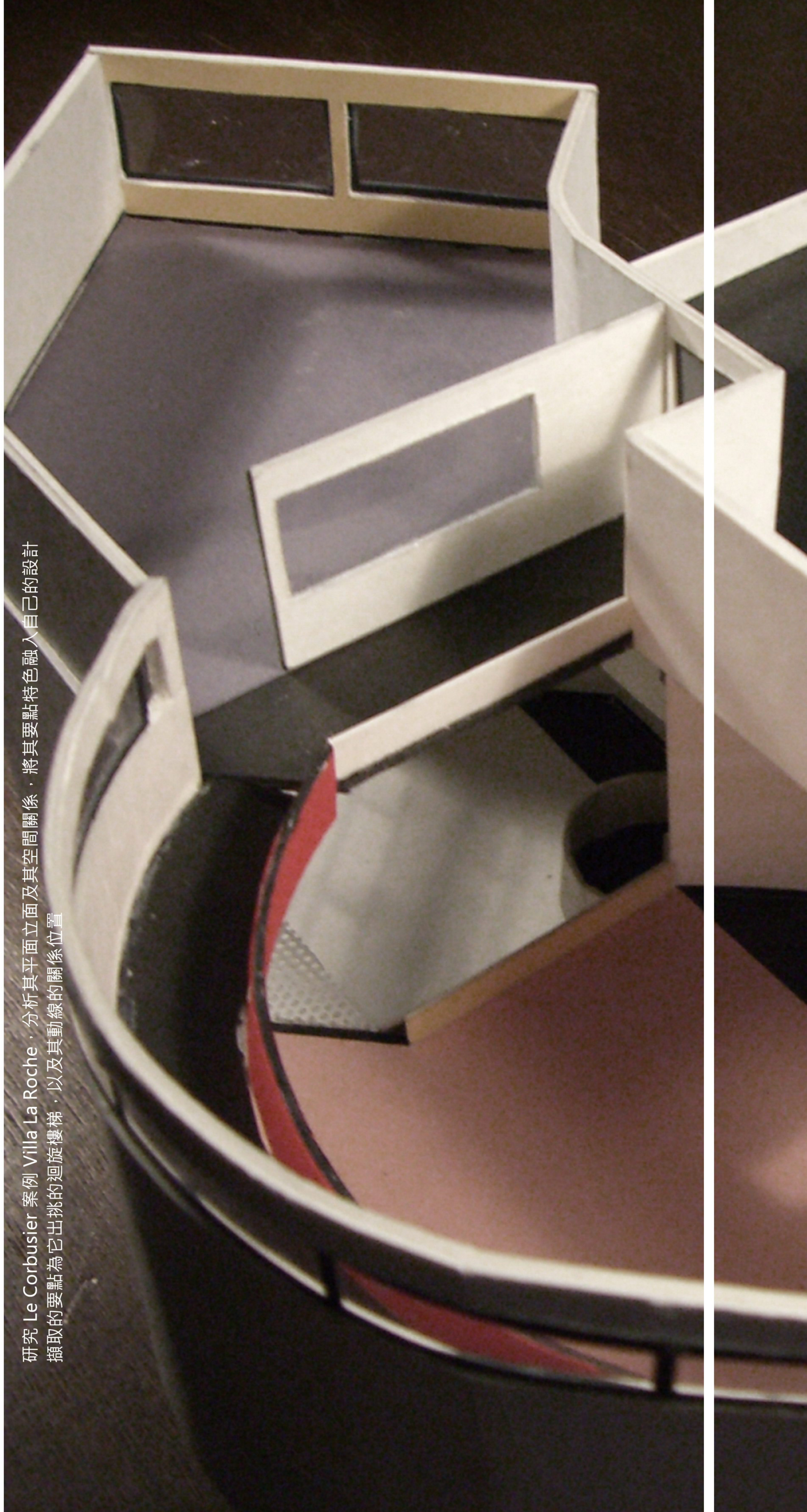




# Mr. Yang House

## Experiencing fluid time in space

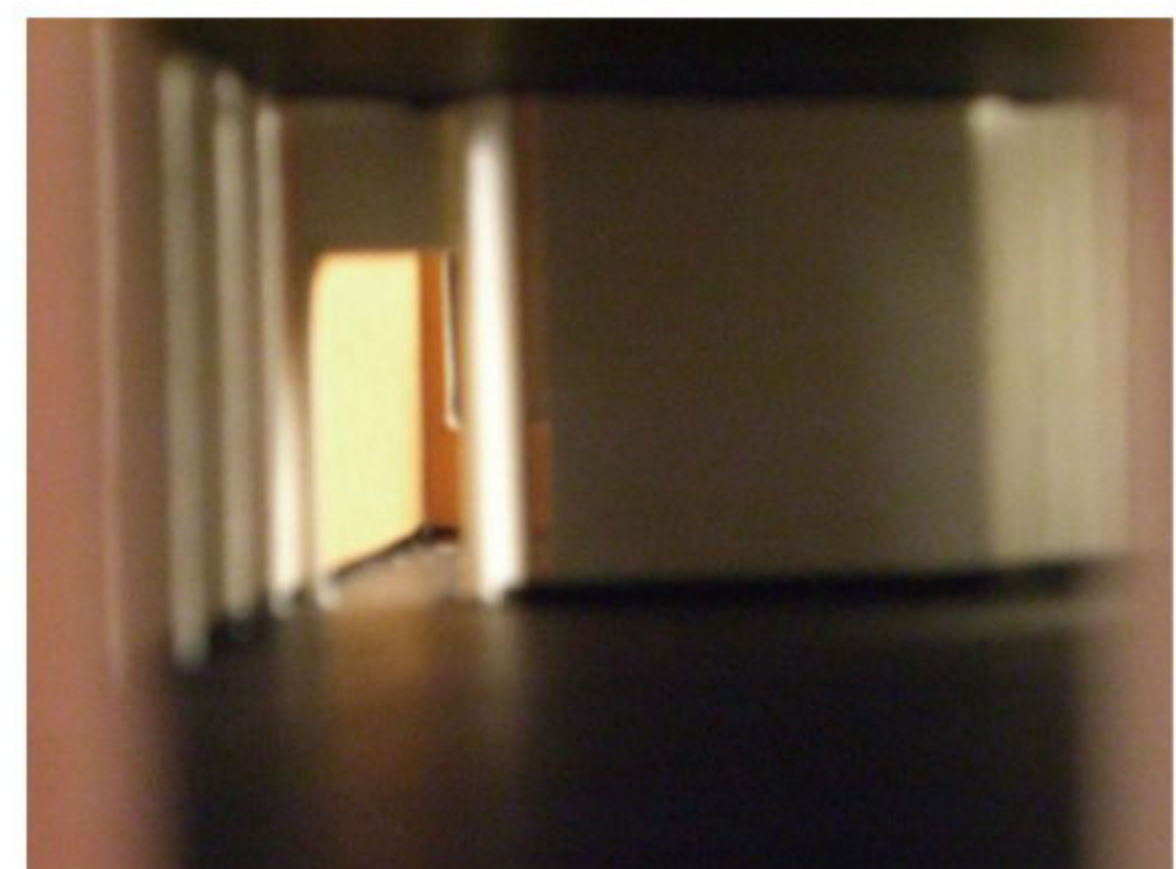
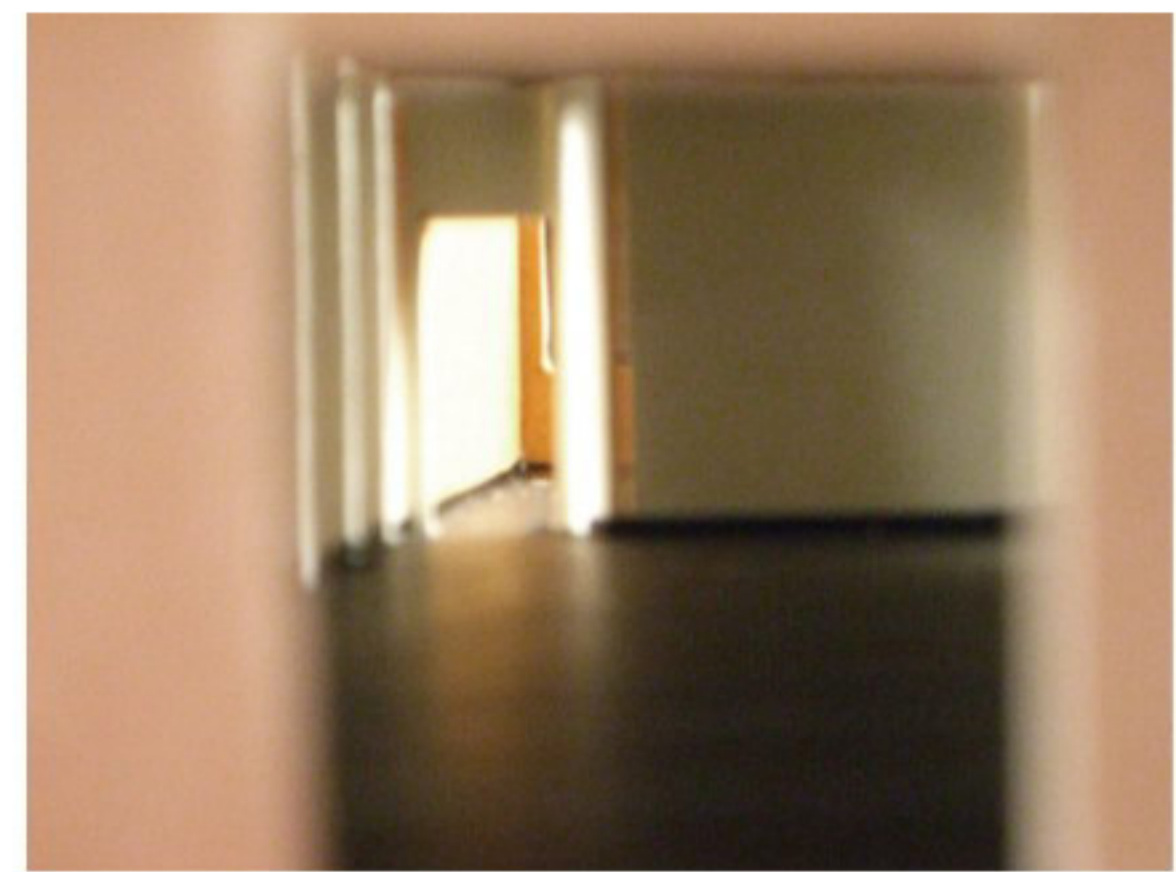
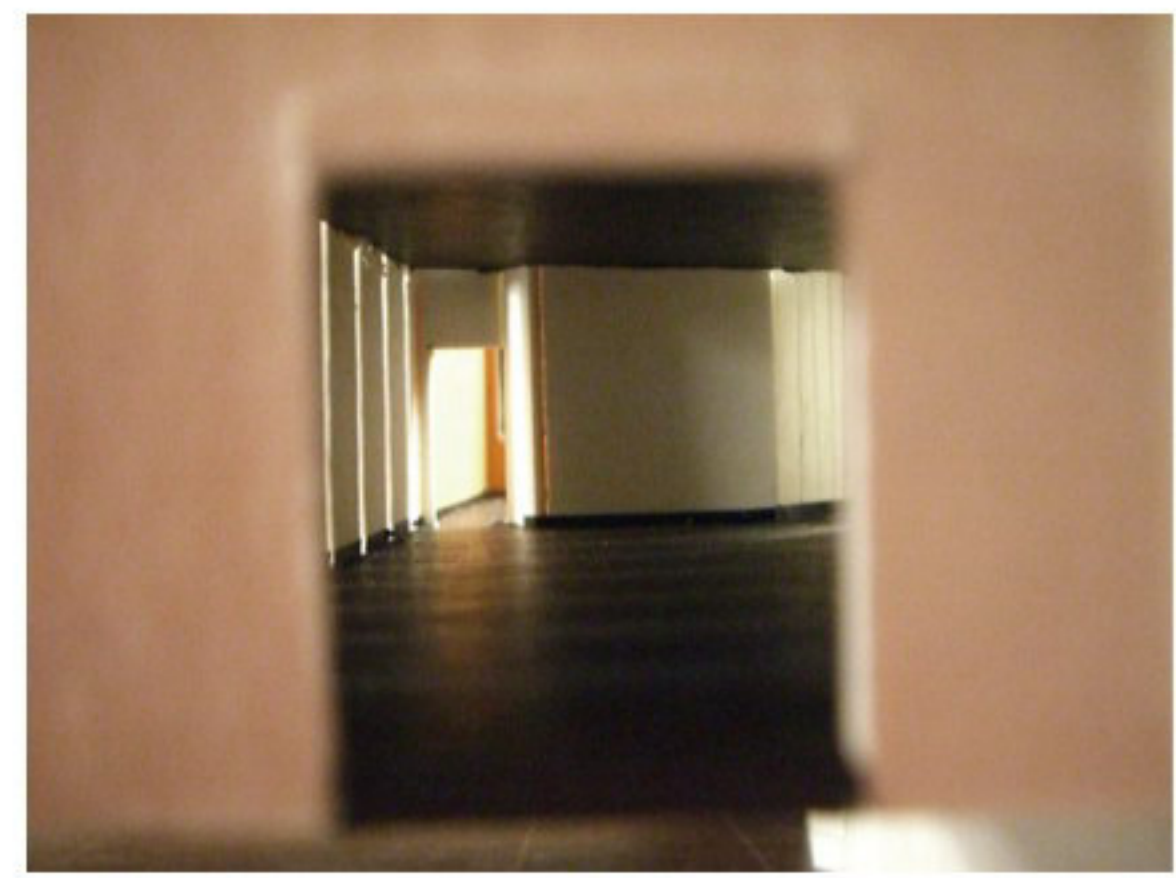
研究 Le Corbusier 案例 Villa La Roche，分析其平面立面及其空間關係，將其要點特色融入自己的設計  
擷取的要點為它出挑的迴旋樓梯，以及其動線的關係位置





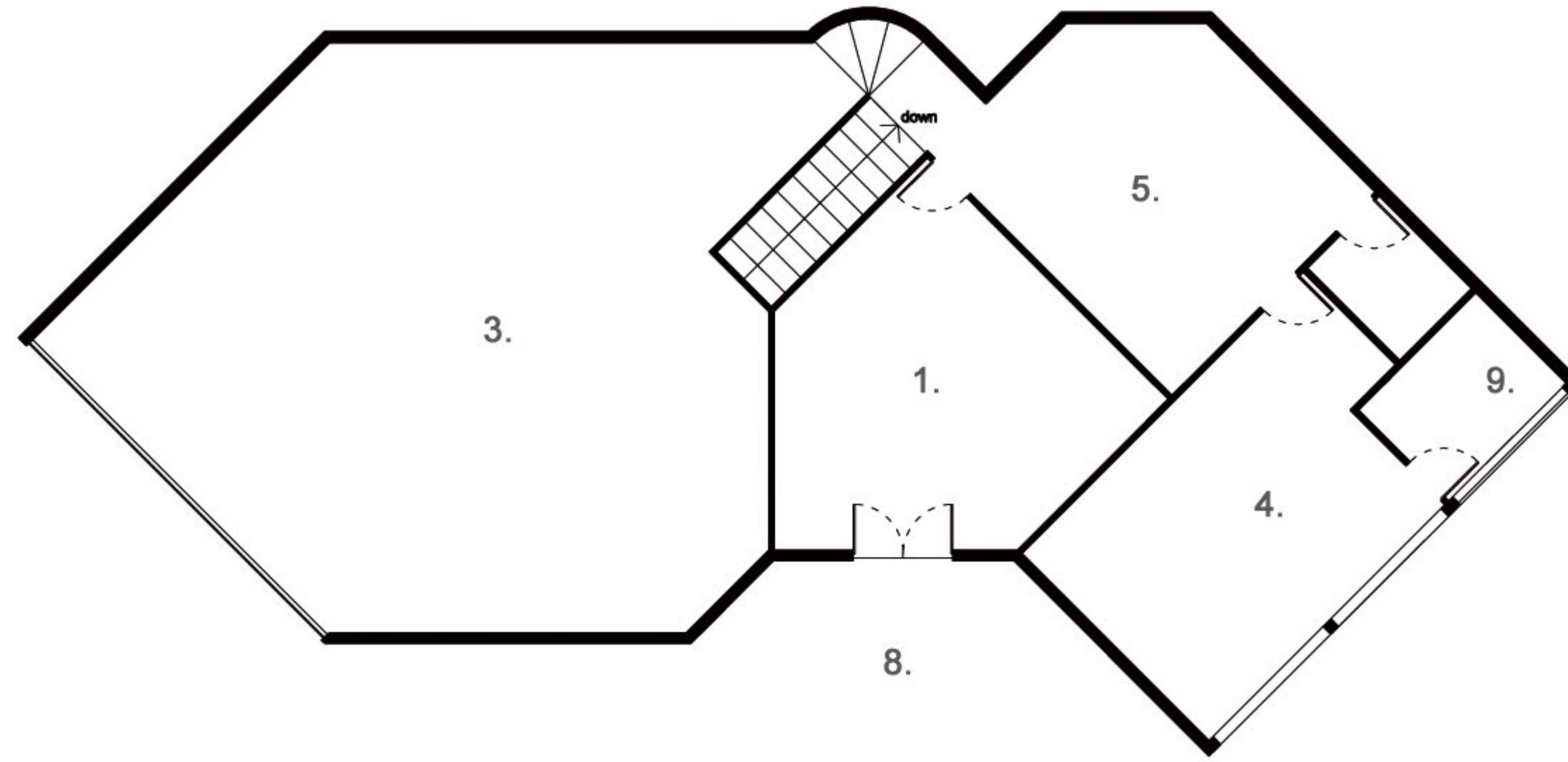


Joined elements of the base, and according to landforms height to adjust previous design. Let the host and guest are the same entrance, and then divide two line in the lobby One is the personal living space for the host. The another is walking along the stair into the studio and the art gallery.

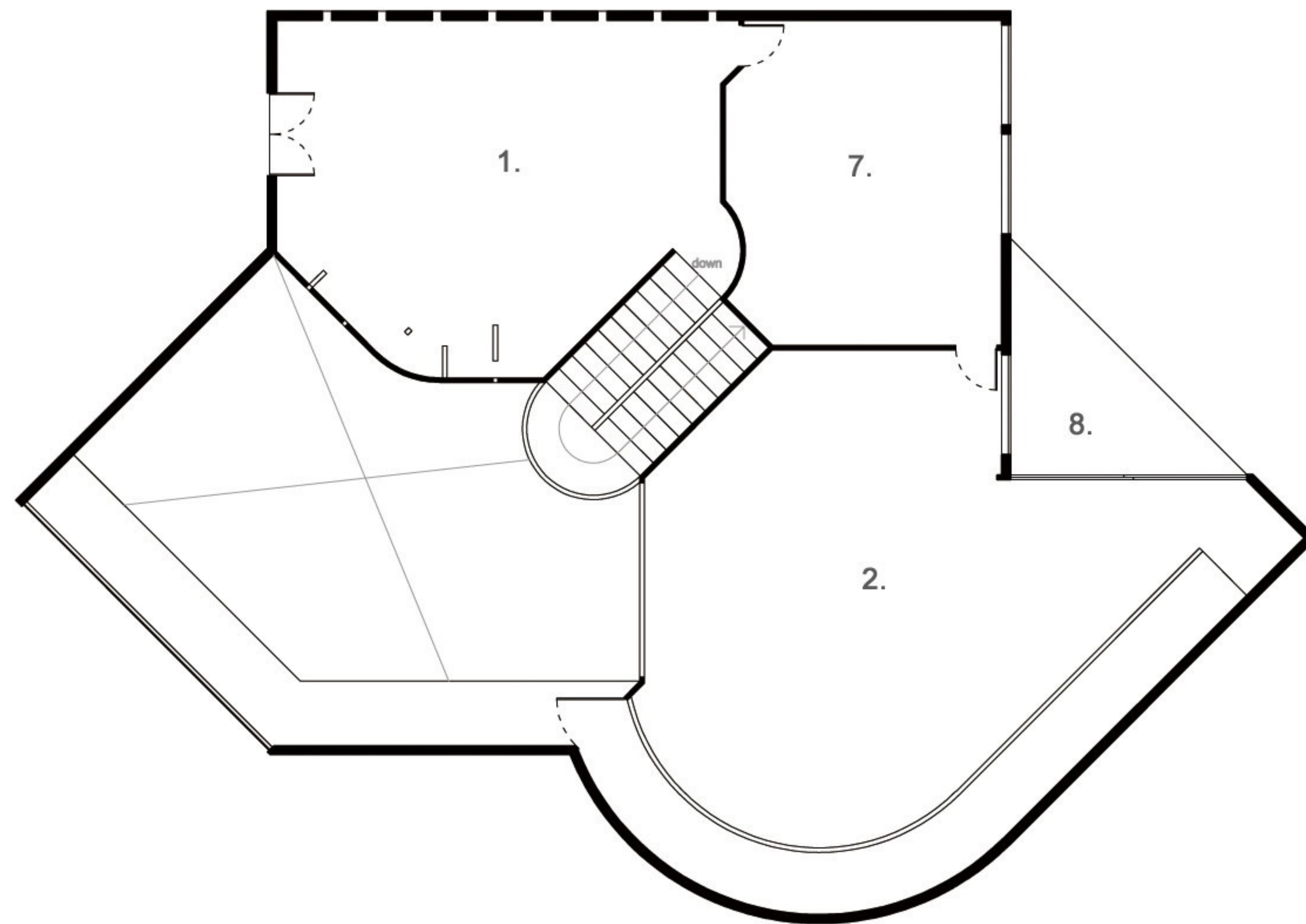


Entrance's light Change

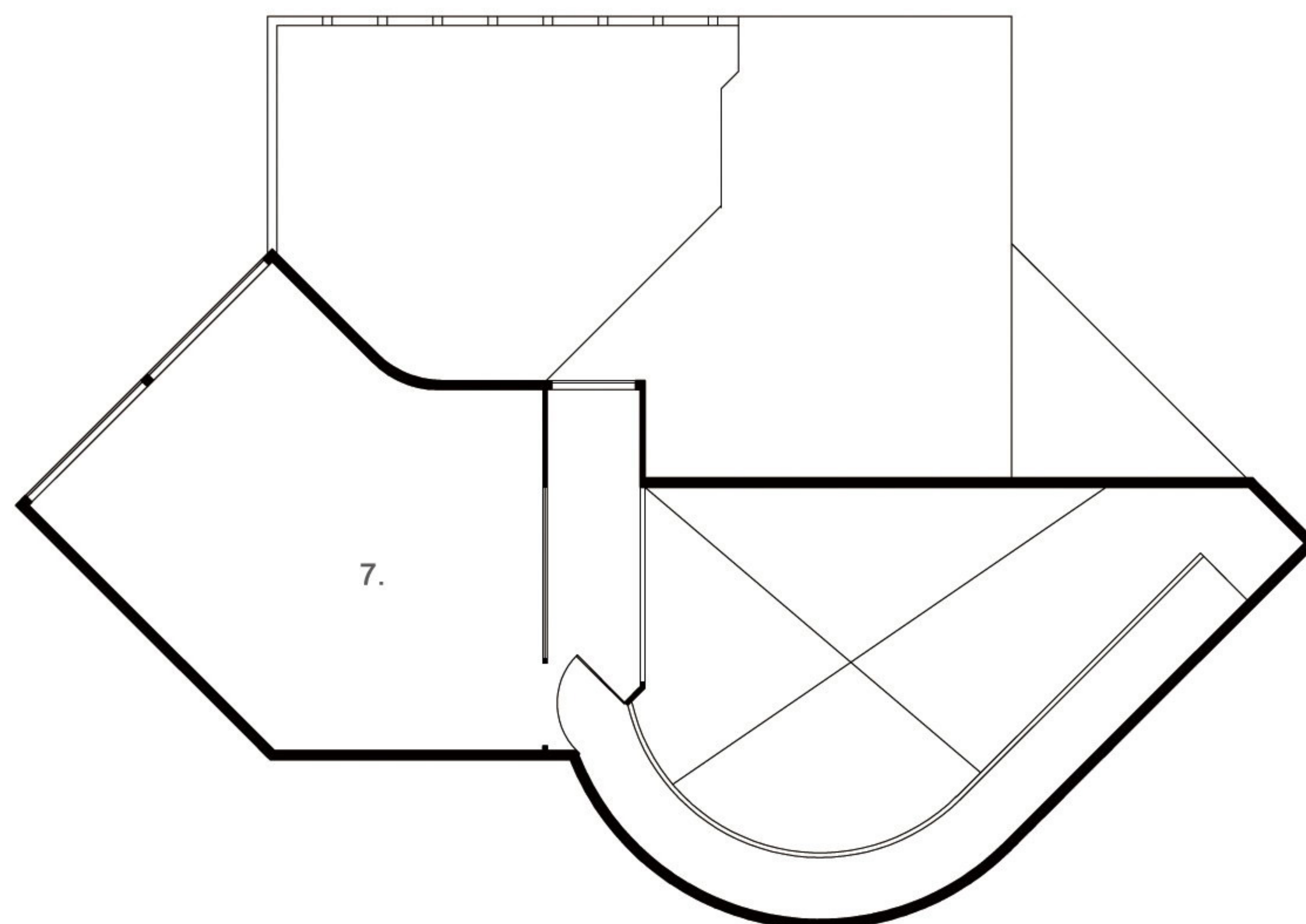
Mr. Yang house is single home, not only the basic life functions, but also need a private studio, and personal art gallery. Moreover, display works must consider such large-scale sculpture or painting.



Ground floor

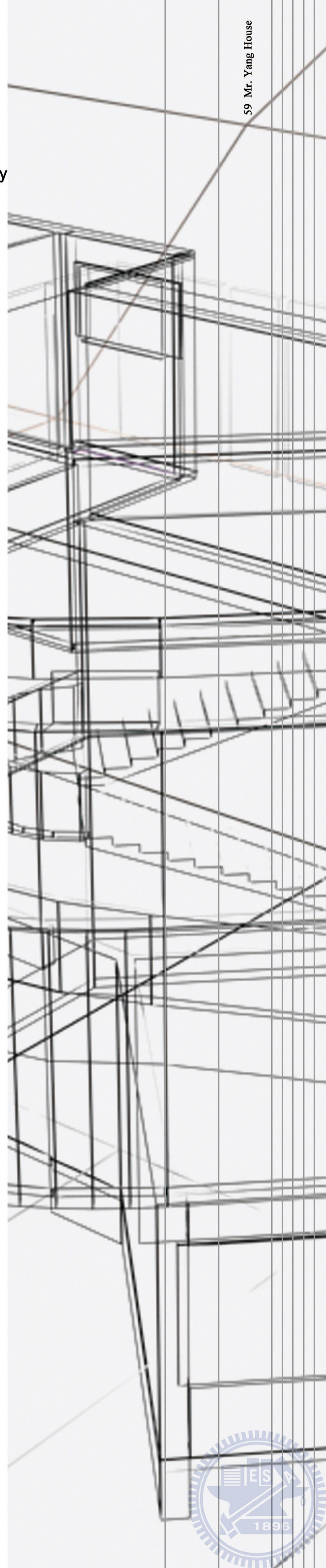


First floor



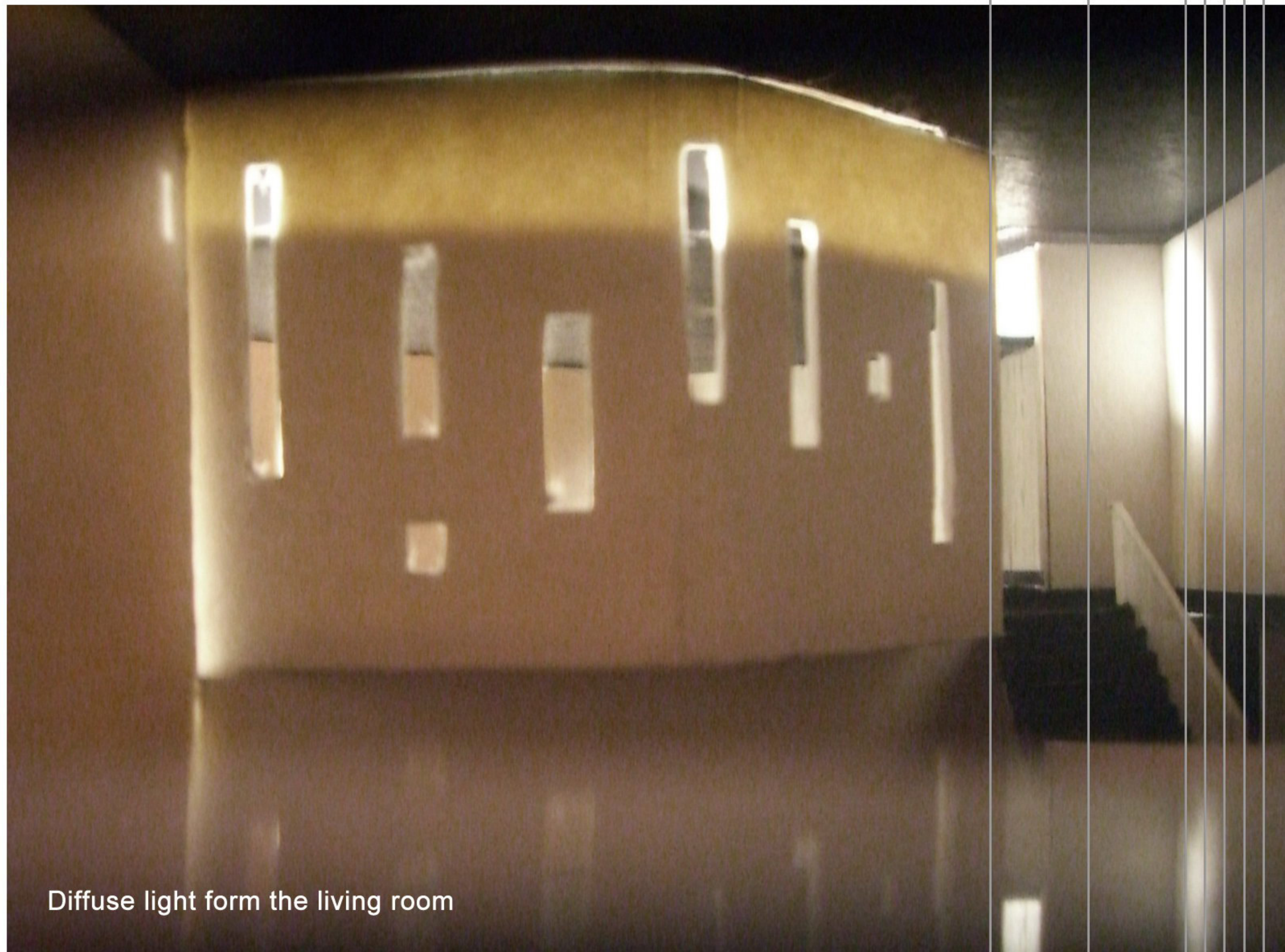
Second floor

- 1. Living room
- 2. Work space
- 3. Book room
- 4. bed room
- 5. Kitchen
- 6. Exhibition room
- 7. Galley
- 8. Backyard
- 9. Lavatory



In addition to "Promenade walk" operations, how to get people into space and to feel the flow of time experience. That is another important issue on this design. Not only its own age of sensibility material, but also light and shadow changed more easily make people feel the flow of time experience. So different kinds of space have different way to create change of light and shadow. For example, let lobby's wall with chink to cause light diffusion, and there is light pass through stained glass in the study room, and the gallery light are reflected indirect lighting.





Diffuse light form the living room



Work and see the book room at the same time



Clever spiral staircase connecting all space



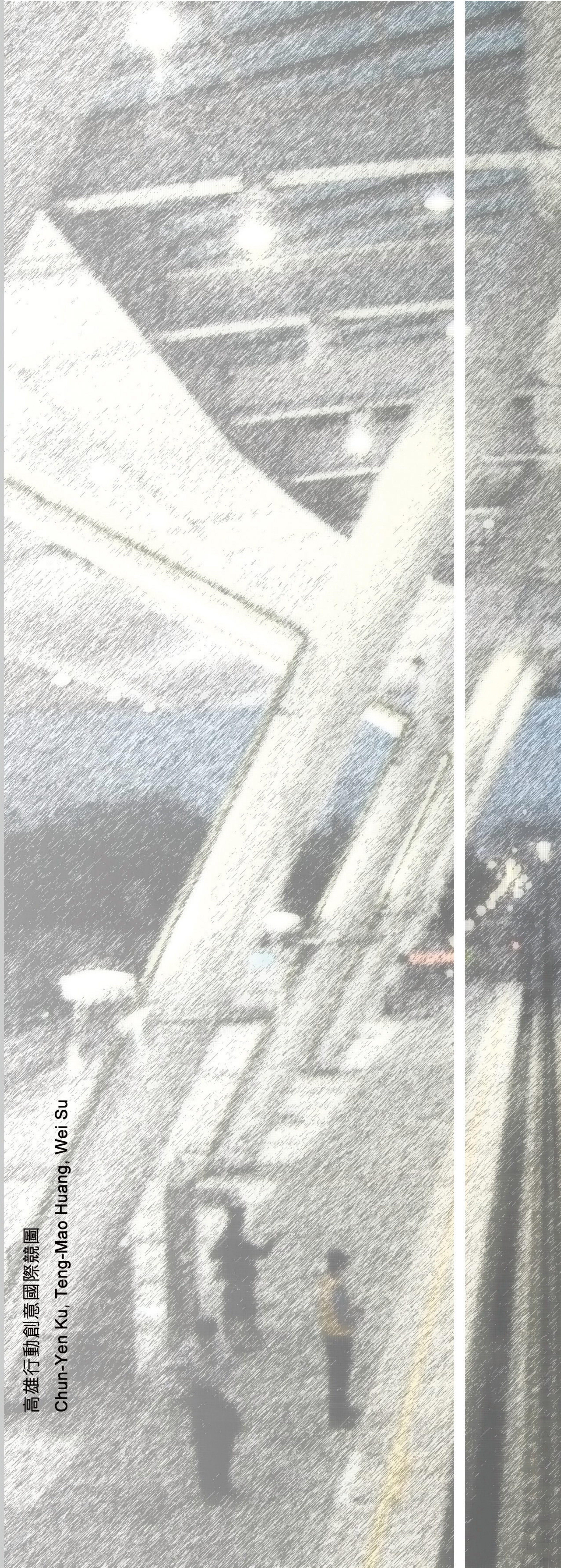


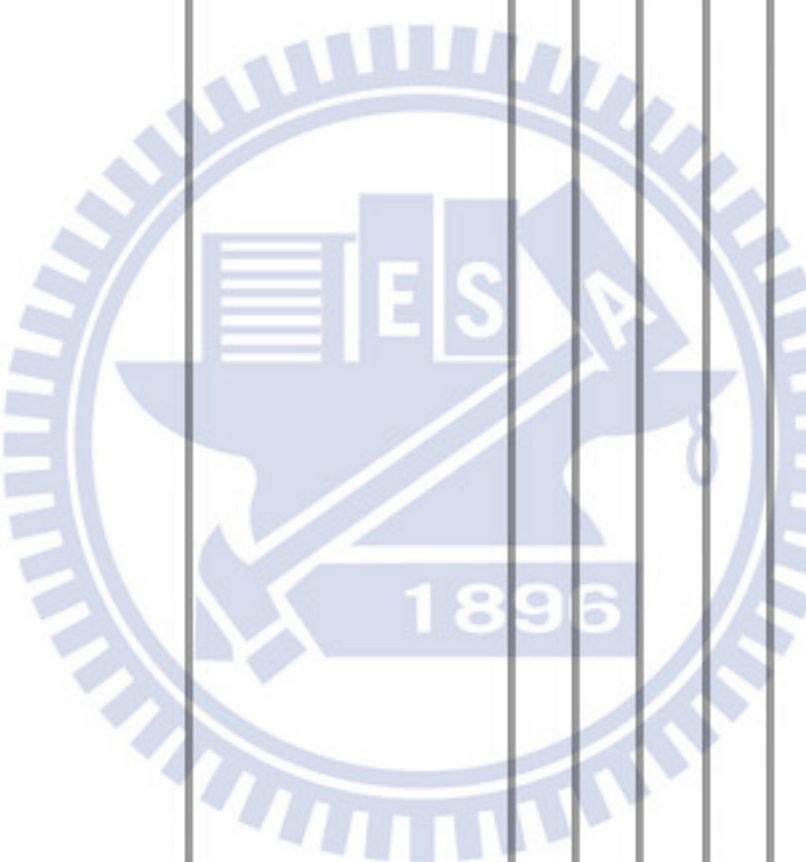
# How to enhance the taking rate of KMRT

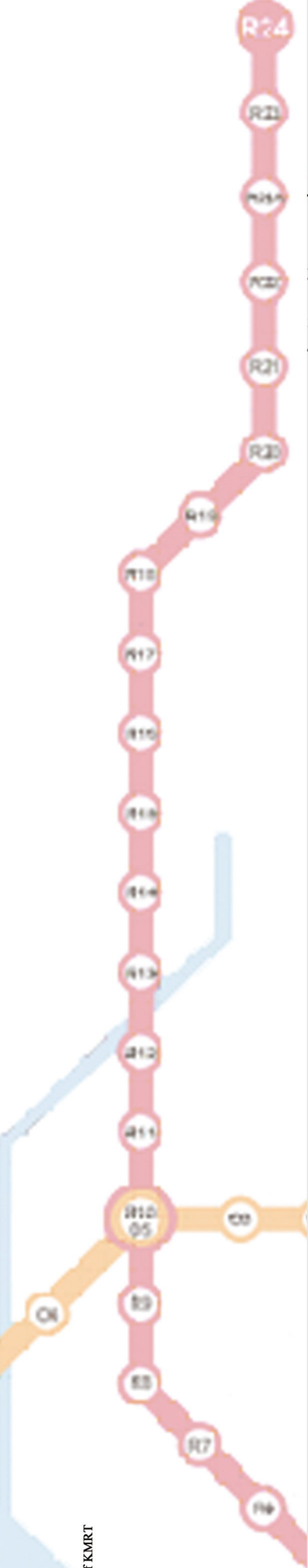
to divided into four levels to discuss KMRT for improvement

高雄行動創意國際競圖

Chun-Yen Ku, Teng-Mao Huang, Wei Su







First of all, we propose a possible direction for KMRT in the future from four aspects.

1. KMRT and urban transport policy
2. KMRT and urban development of the relationship between the volume transferred
3. KMRT re-use of internal space
4. KMRT new experience---the creation of the sustainable bank

### 1. KMRT and urban transport policy

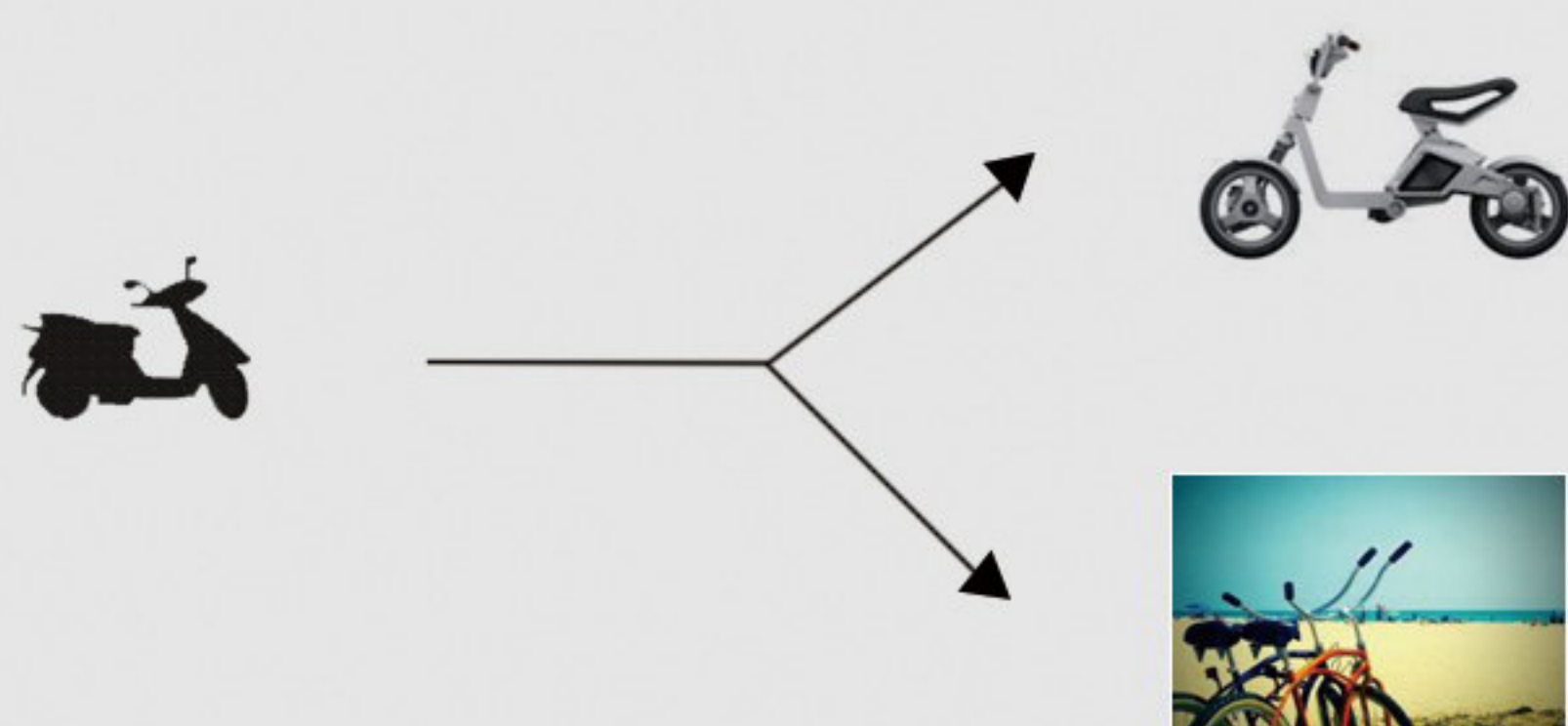
KMRT and the Traffic Polices of Kaohsiung City

(1) Riding motorcycles is not as convenient as before.

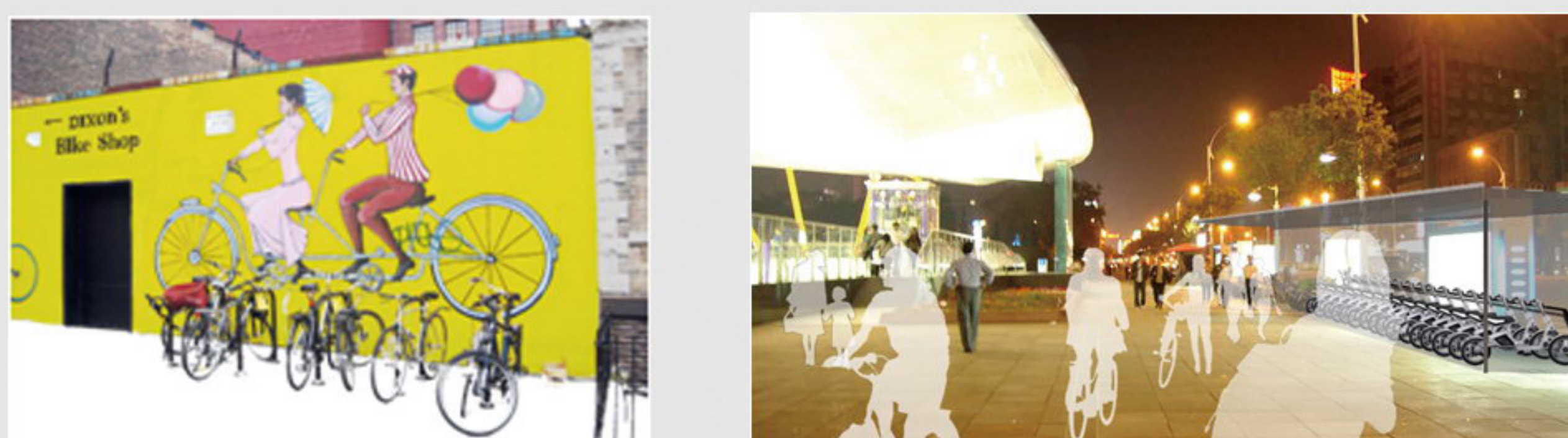


(2) to change old motorcycles into new bicycles or new electric motorcycles

The government could cooperate with bicycle companies to promote, and changing old motorcycles into new bicycles or new electric motorcycles.



KMRT provide bicycles parking and electric vehicle charging stations.



(3) to increase the efficiency of Kaohsiung bus.

Kaohsiung bus privatization, competition will bring good quality  
The city's street standards be incorporated into the bus lanes





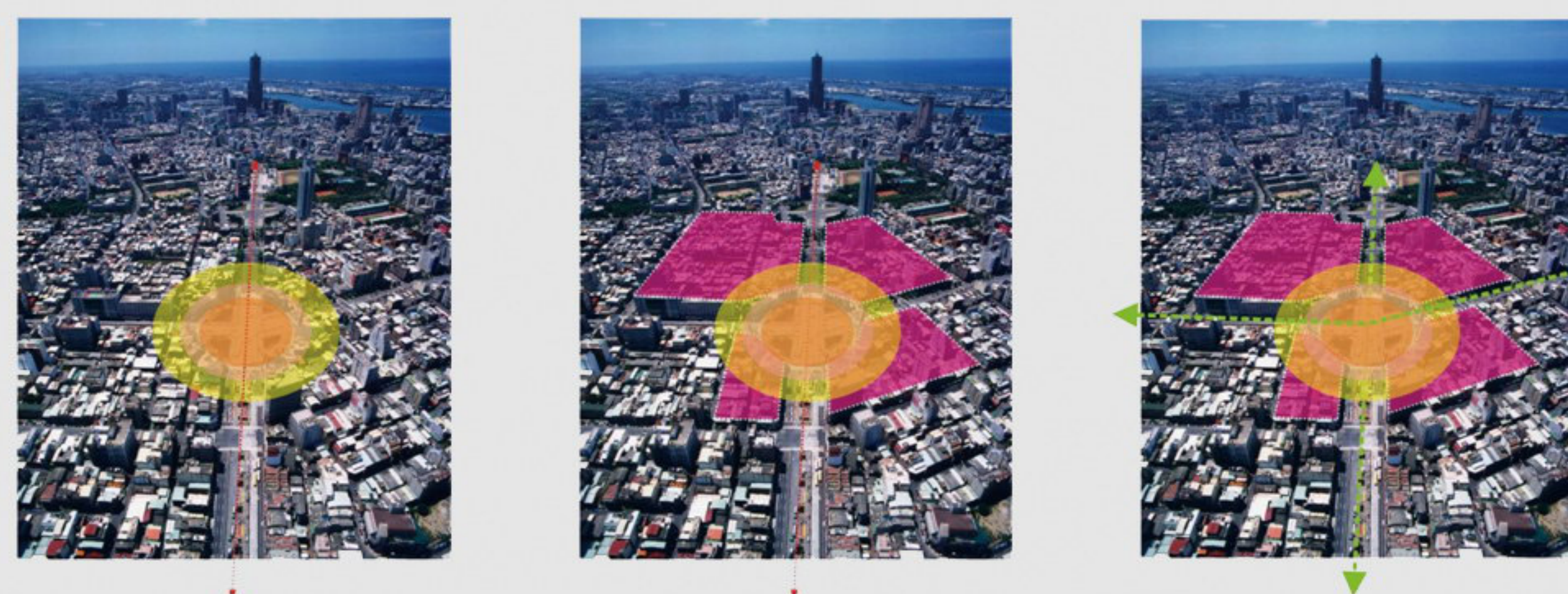
## 2. KMRT and urban development of the relationship between the volume transferred

KMRT District is becoming the new main stream.

The law is set up to remain open around the KMRT station and transfer it into a paradise of walking and biking within the regulative time.

The public might take KMRT voluntarily because of the restriction such as increasing the fare of cars and motorcycles.

The surrounding areas of KMRT will not just be the space of mass transportation. There will be much more clearance regulations to attract people.



### New Evolution of the Road

A new possibility of the space would be created in accordance with the clearance regulations around the KMRT station.



### 3. KMRT re-use of internal space

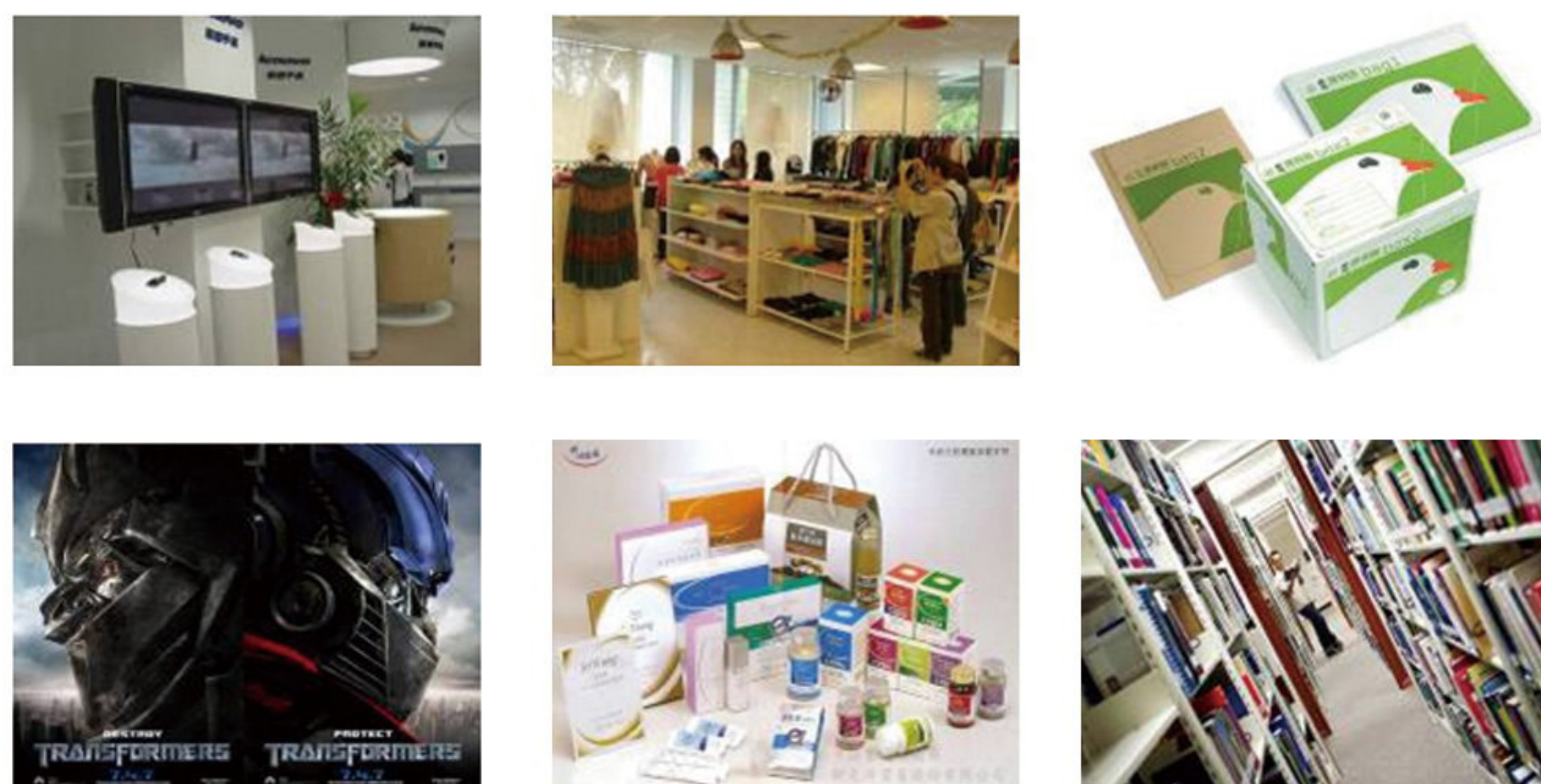
KMRT station must become information interchange site.

People take KMRT is not just for move but for absorbing and collecting information.

Through the introduction of information or business, popular live messages are providing. So that people might enter the KMRT station with purposes not just simply for move to the next stop. One can get new information from the station, and the new habit of back to KMRT station for information would be formed gradually.

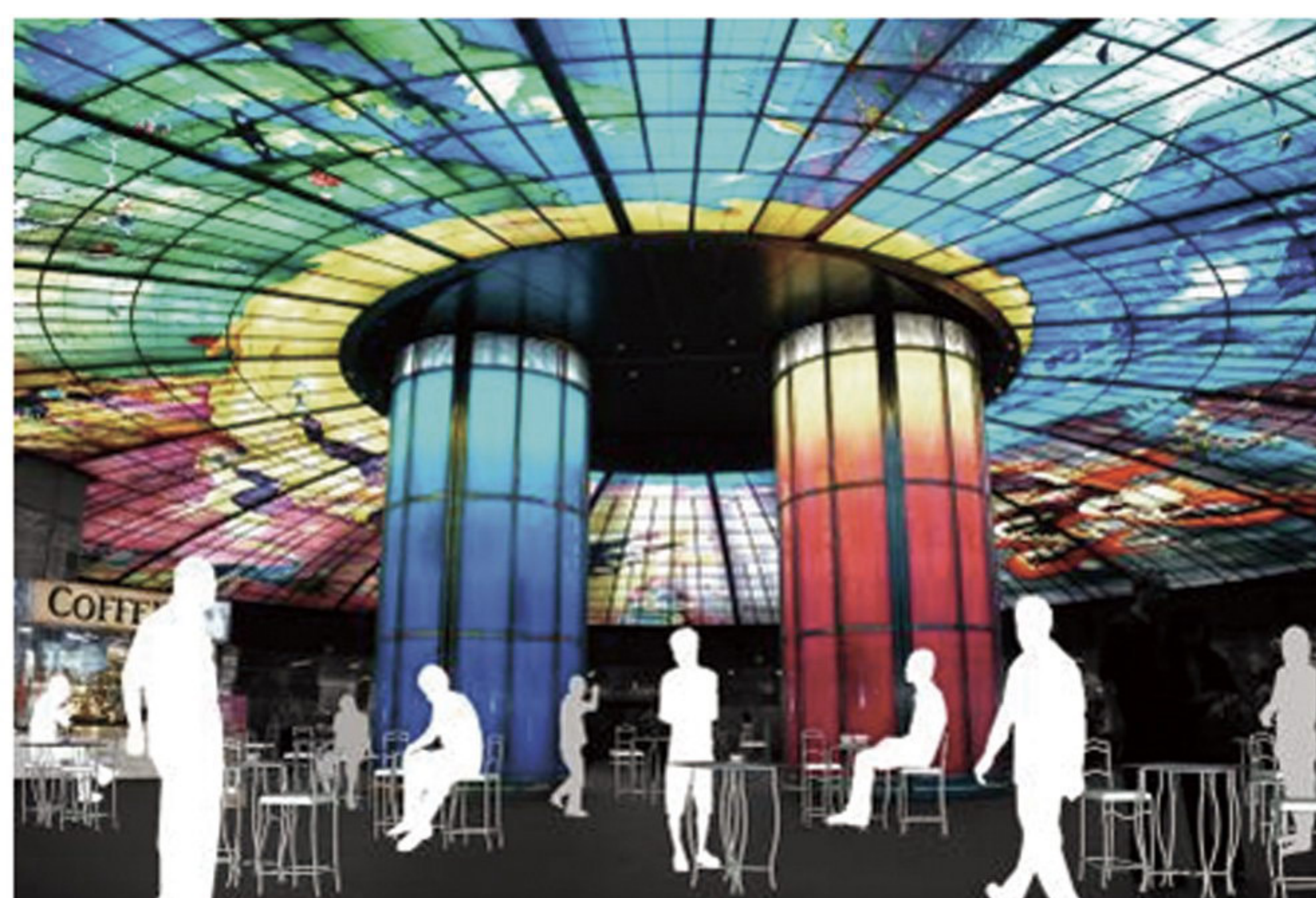
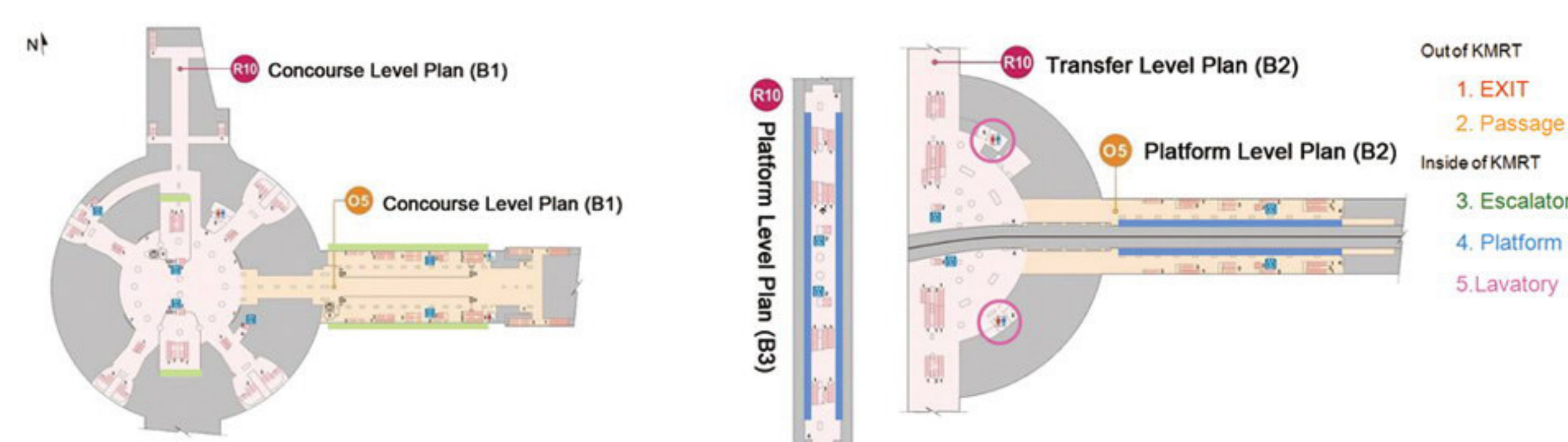
Method :

First of all, to introduce business into KMRT and then to cooperate with the post office or library. The integration of transportation, postal system and library system makes KMRT become more comprehensive.



Method :

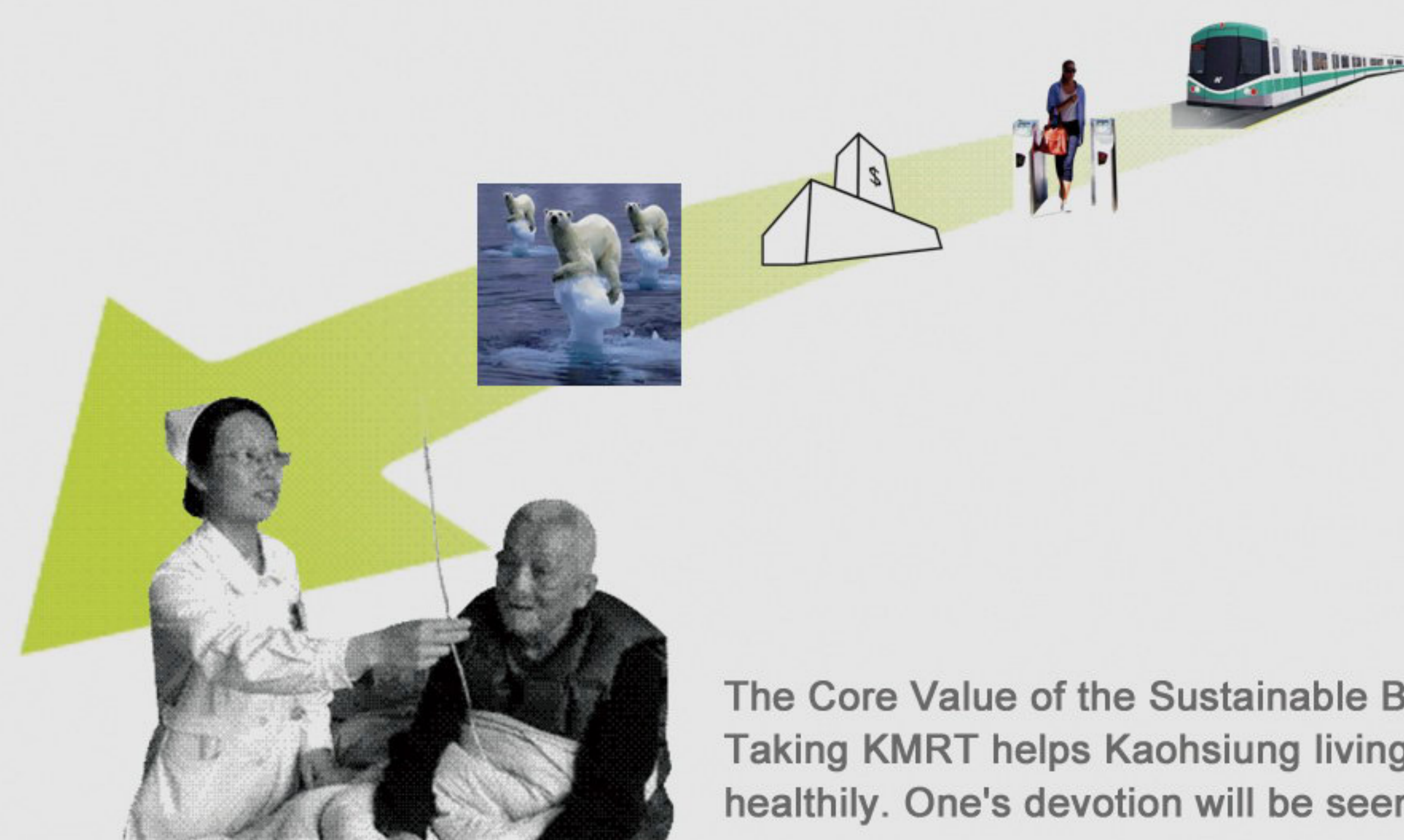
Base on each station's function, opportunities of supplying information can be occur in many spaces.



#### 4. KMRT new experience---the creation of the sustainable bank



The money publishing, calculating and withdrawing systems of the virtual Sustainable Bank are digitalized. When one passes the AFC gate of KMRT with his value card, the Sustainable Money is accumulated at the same time, and the record will be stored in his card. The calculating method is in accordance with the proportion of every single travel's cost. For example, this trip cost one 30 NT dollars, so his will get 3 NT dollars(10%) of the Sustainable Money. If it spends him 20 NT dollars to take KMRT for the next trip, his Sustainable Money will be accumulated to 5 NT dollars. These values are equal to the devotion of saving energy and reducing carbon and the rescue of dying species from the greenhouse effect. This invisible value will be substantialized and data-based. One can choose to keep his Sustainable Money as "saving" or "CD" which is like the system of ordinary banks. After achieving certain amount of the Sustainable Money within certain years, the value of the CD becomes an alternative insurance. On the other hand, the value of the saving can be used whenever you want. Shopping in the authorized stores of KMRT and attending activities held by KMRT such as concert are great opportunities to enjoy a special discount.



The Core Value of the Sustainable Bank  
Taking KMRT helps Kaohsiung living healthily. One's devotion will be seen.



*Promenade*



# Promenade



