

Pearl River Delta Economic Zone

is called the **3 FASTEST** zone in China. It encompasses

0.4% of the total people's Republic of China land area, **3.5%** of total people's Republic of China population

But it accounted **9.9%** of its GDP and **28.9%** of its total trade. And **MACAU** belongs to the **PRD ZONE**

PRD Economic Zone

- MACAU**
- HONGKONG
- Guangzhou
- Zhuhai
- Dongguan
- Zhongshan
- Zhaoqing
- Shenzhen
- Foshan
- Jiangmen
- Huizhou

MACAU

During the period between 1979-2005 the average real rate of GDP growth in PRD Economic Zone exceed 16% well above the PRC national figure of 9.8%. Therefore PRD is the fastest growing portion if the fastest Province in the fastest growing large economy in the world.

Image Landsat

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

MACAU- Fast growing land

Macau has a long history of reclamation. But in the **last 6 years** this process is becoming extremely evident. A new patch of island is formed and the area between Taipa and Coloane has been filled.



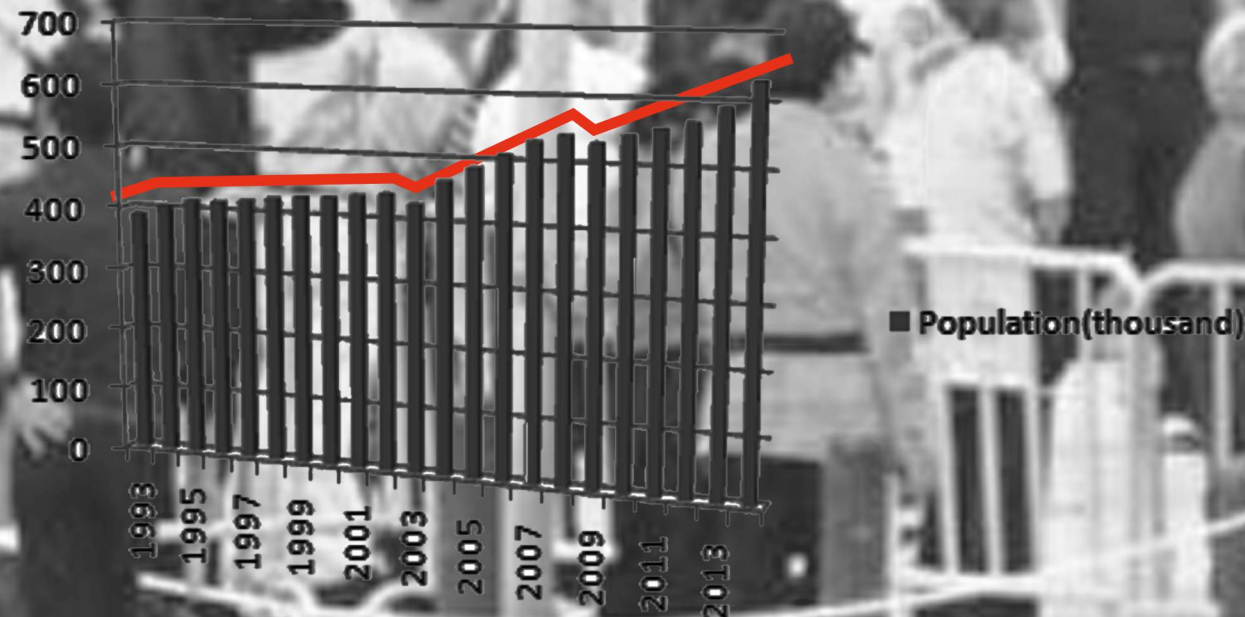
MACAU- Fast growing Population

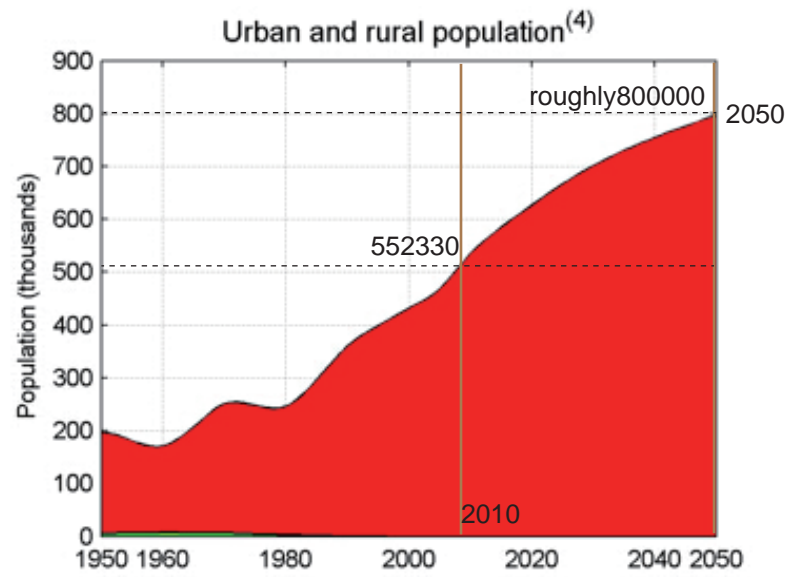
Macau's population grew by 26.9 percent over the past ten years to August 2011, reaching 552,503 residents, according to the 2011 Census results, released last Friday. The information published by the Statistics and Census Service (DSEC) states that there are 117,268 more residents than in 2001, which means that the average annual population growth is

about 2.4 percent. This phenomenon is justified by the “rapid economic development” and “increased need for labor”.

Population Distribution

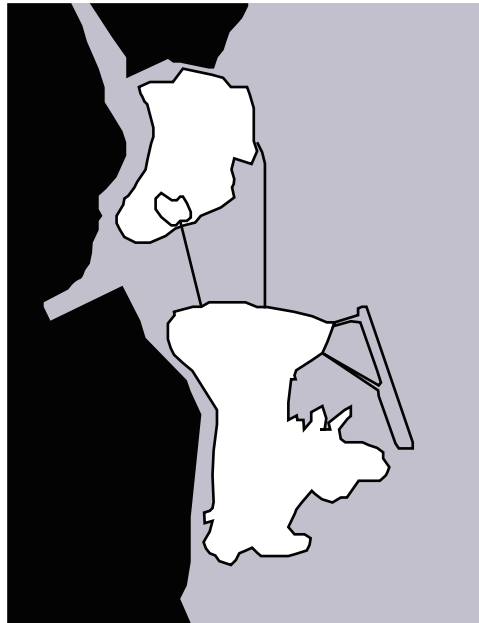
Population(thousand)



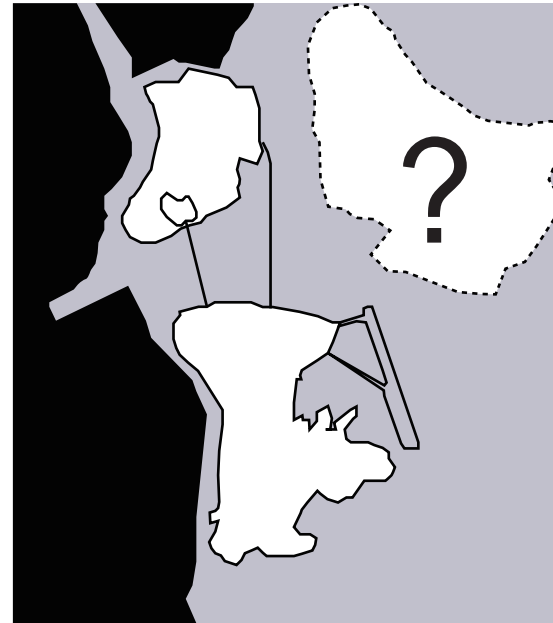


In 2065, the population probably reach 1000,000, almost double the number of 2010.

Keep reclamation or not?

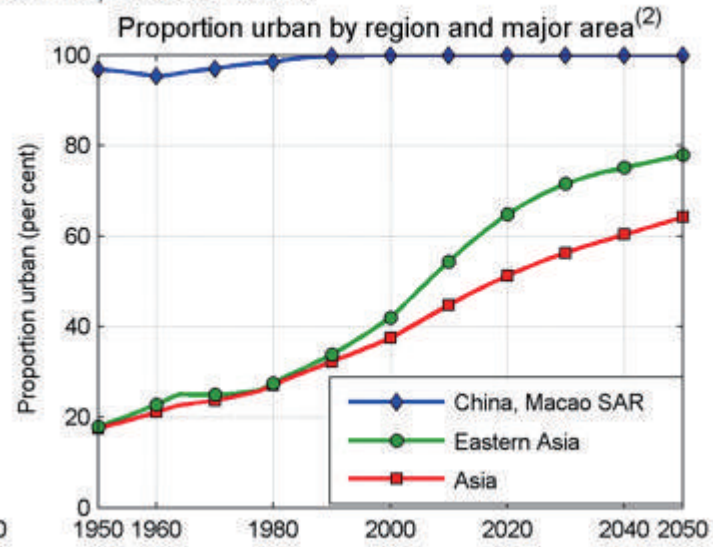
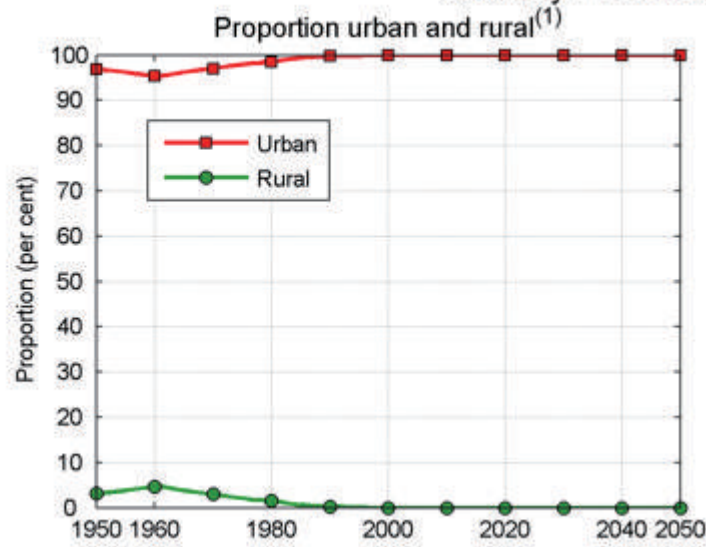


Land area 2010

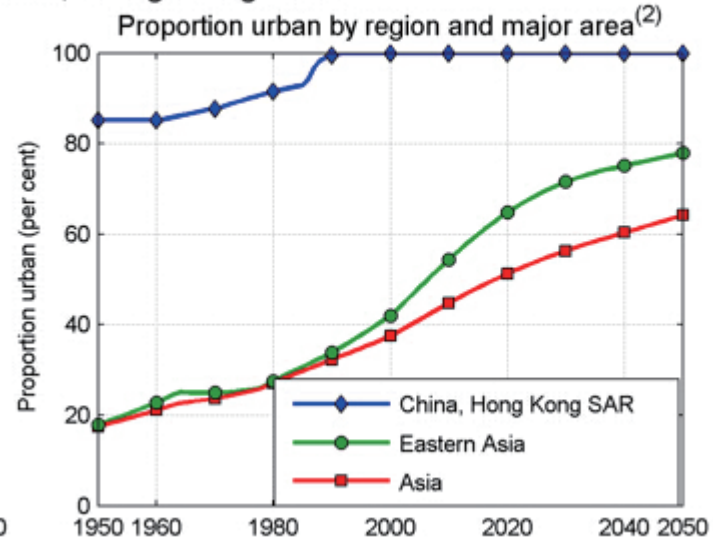
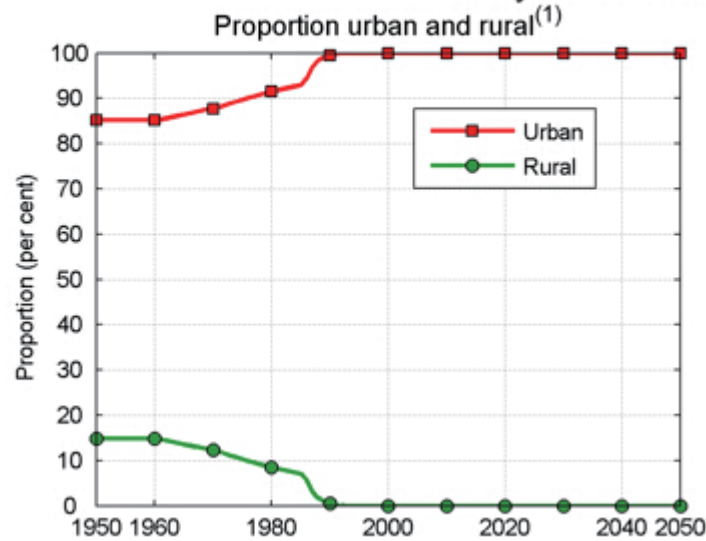


2065

Country Profile: China, Macao SAR



Country Profile: China, Hong Kong SAR



What happened after urbanization ?

MACAU- Fast growing Economy

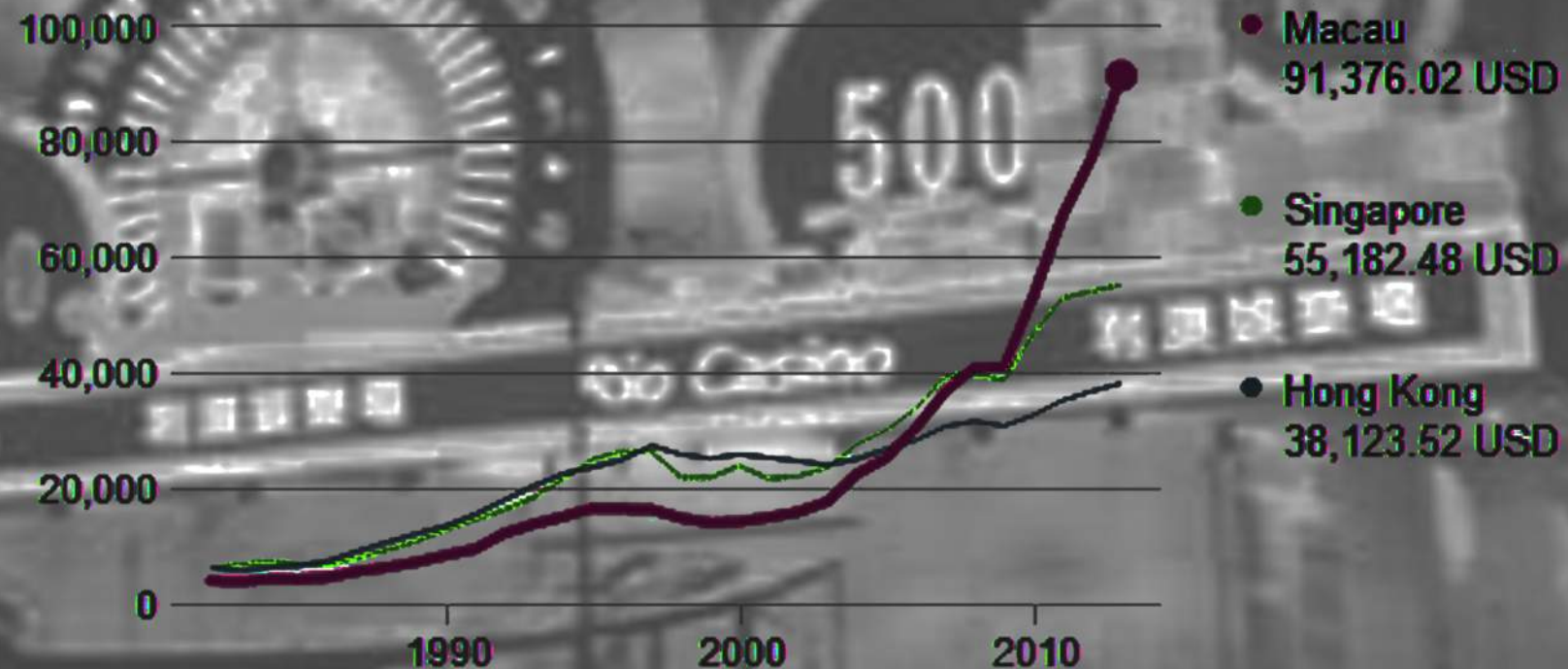
Macau has enjoyed a tourism boom, with gamblers coming to bet at more than 30 casinos.

its economy grew approximately **13.1%** annually on average between 2001 and

2006. Those statistics makes Macau a **fastest growing econ**

-omic zone in the world.

Macau, GDP per capita





WHAT IS BEHIND THOSE FAST GROWING PHENOMENONS?

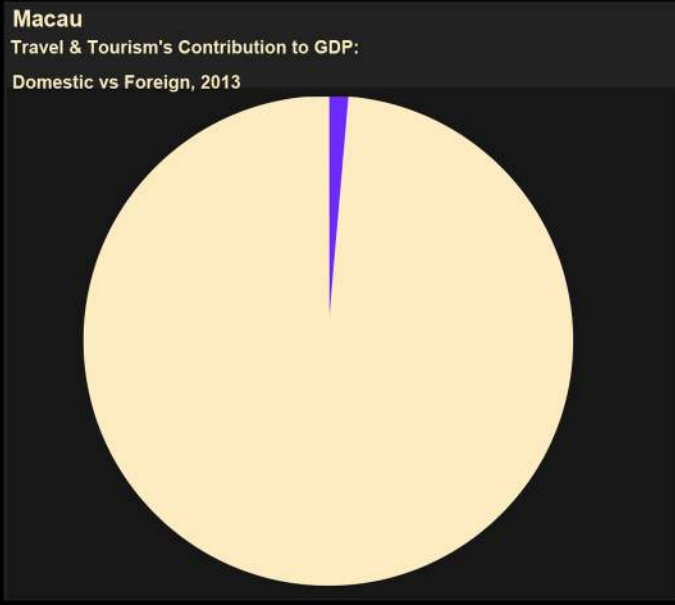
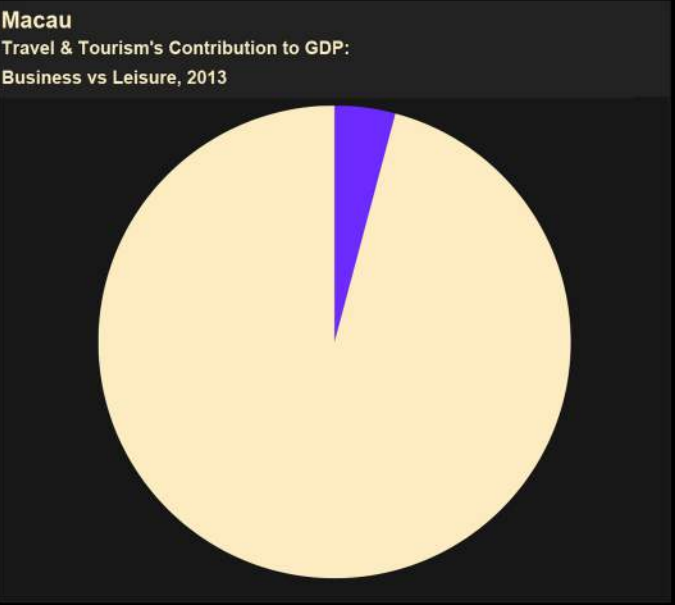


MACAU- Booming Tourism

The direct contribution of Travel & Tourism to MACAU GDP in 2013 was MOP173,008.0mn (43.1% of GDP), The total contribution of Travel & Tourism to GDP (including wider effects from investment, the supply chain and induced income impacts) was MOP345,714.0mn in 2013 (86.2% of GDP)



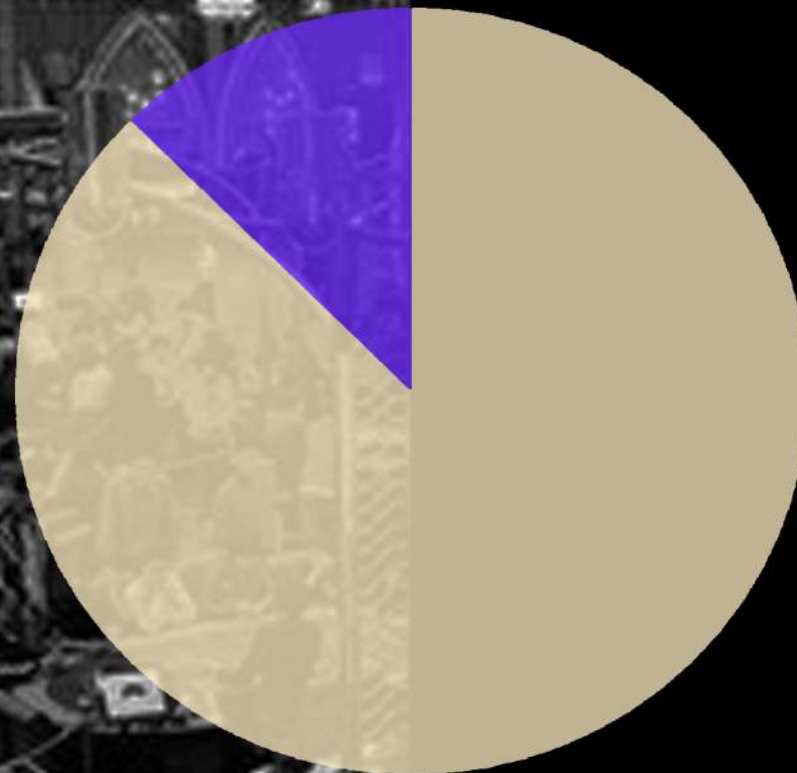
MACAU- Booming Tourism



MACAU Economy's Over dependence on Gambling tourism

Gambling revenue contribution to GDP MACAU

2013

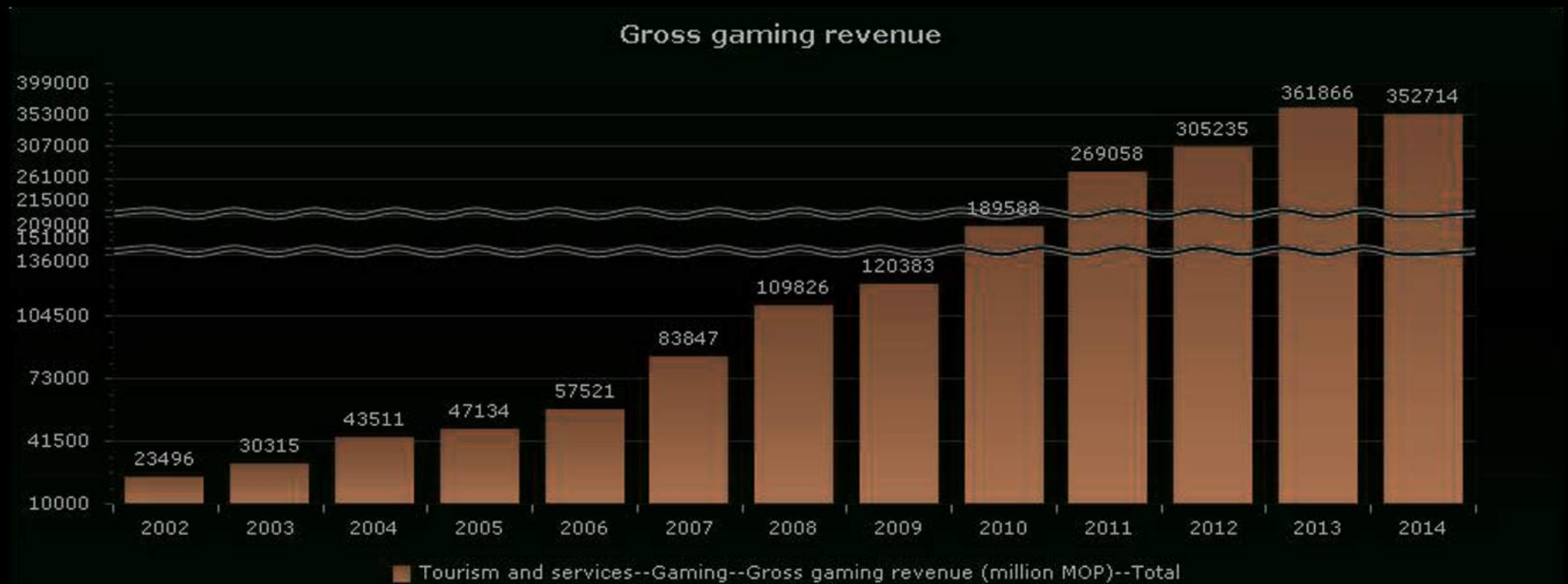


■ Gambling gross revenue
87.5%

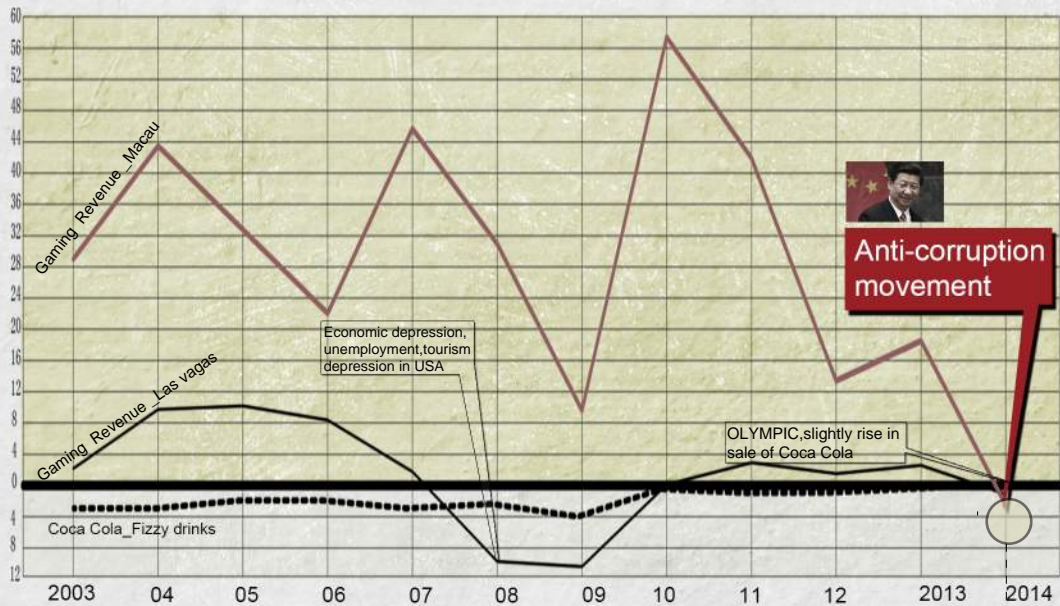
Not only the General tourism is highly dependent on the gambling industry. We can see that the whole Macau economy is over dependent on it.

MACAU- Gambling Tourism

After almost a decade of rapid growth, The gaming revenue encountered the first chip down recently. Having risen remorselessly, betting revenues **declined by 2.6%** in 2014.

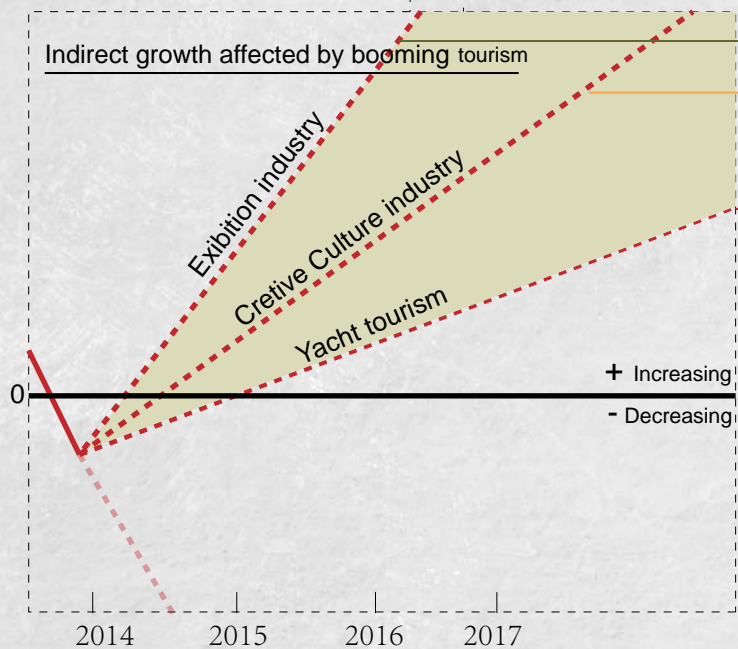


Revenue, %changes on previous year



Future prediction on Macau Gambling reveue

Indirect growth affected by booming tourism



Even though the gambling revenue went down slightly last year, but we can reverse the situation by boosting other related industries. Those industries would apply an indirect effect on the gaming industry.

Nansha, Guangzhou

- Yacht tourism
- Creative culture industry
- Exhibition industry
- Modern service industry

Qianhai, Shenzhen

- Creative culture industry
- Exhibition industry

Cuiheng, Zhongshan

Chinese Medicine research industry

Yacht tourism

MACAU

_PRD ECONOMIC ZONE

Cooperating industries

From Macau Government report

Creative culture industry

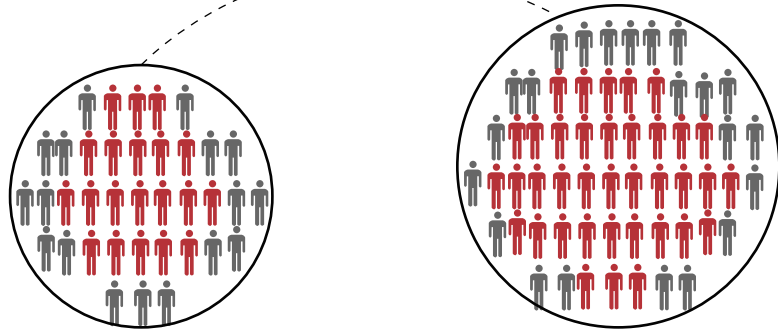
Exhibition industry

Chinese Medicine research industry

Hengqin, Zhuhai

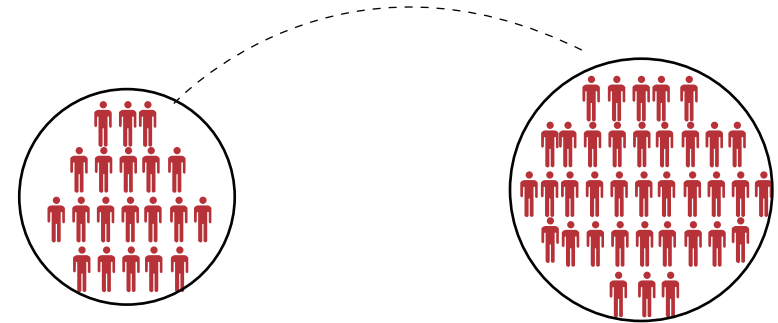
Relation between Tourism and Gambling industry

Booming Tourism



More and more people come to Macau

Increasing Gambling Industry



More and more people Participate in Gaming industry ,hence keep the growth of revenue by Gambling industry.

Four Main charaters of MACAU Tourism



Sight-seeing, Historical centre



Entertainment



Gambling



Food



Let us go back to Toursim for hope.

Renaissance of Historical Centre



Cluster of Ruins of St. Paul's



Cluster of St. Augustine's Church



Cluster of Lou Kau Mansion

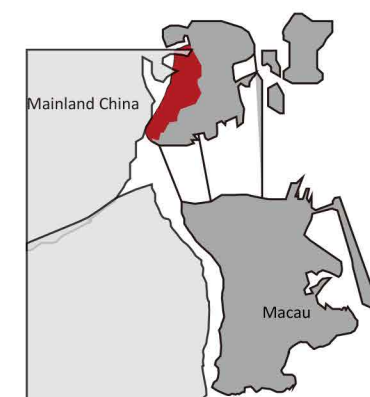
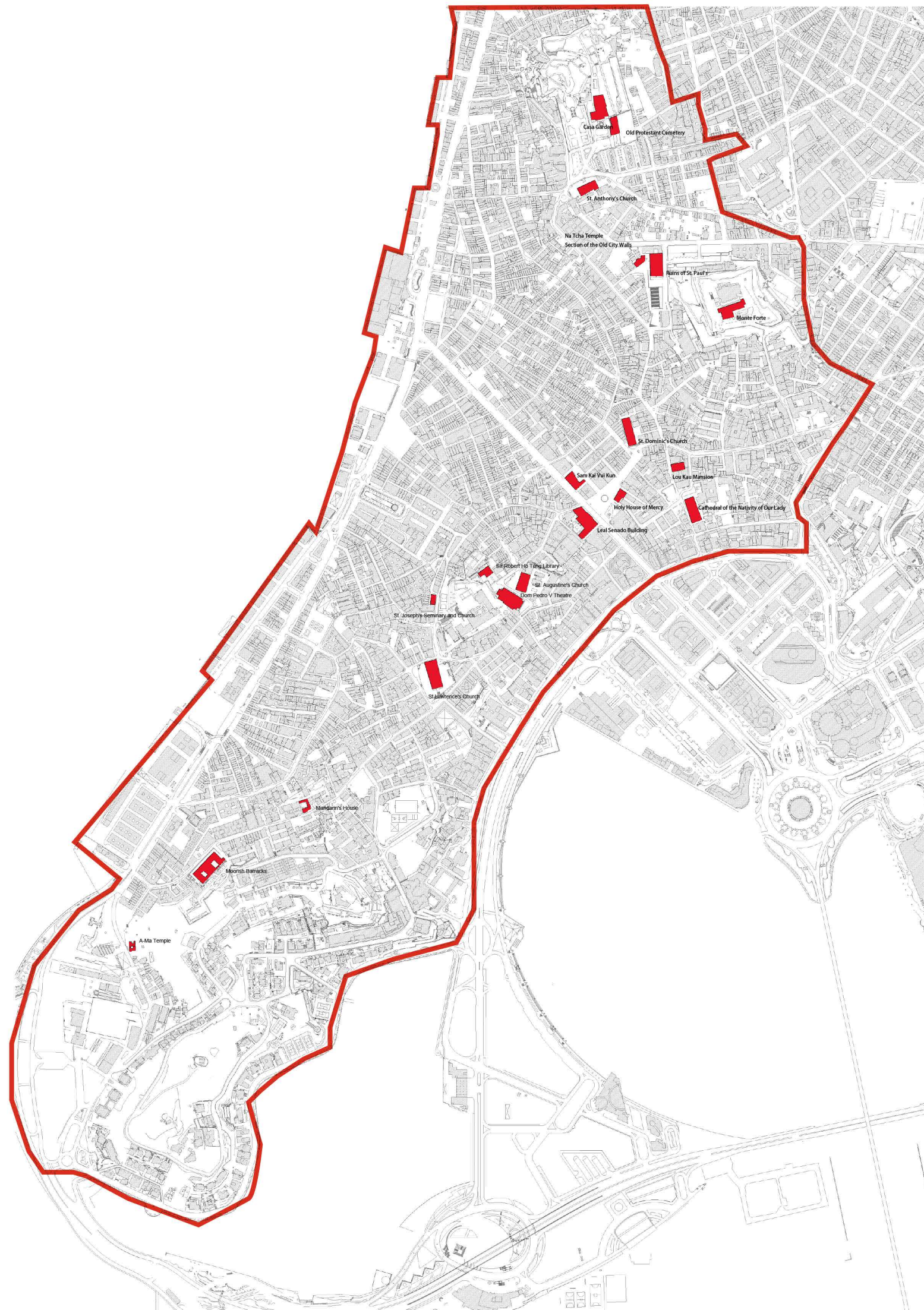


Lineal connection from A-temple

Macau-Historical centre

The Historic Centre of Macao, also known as the Historic Centre of Macau (Chinese: 澳門歷史城區; Portuguese: O Centro Histórico de Macau), is a collection of over twenty locations that witness the unique assimilation and co-existence of Chinese and Portuguese cultures in Macau, a former Portuguese colony.

- . A-Ma Temple
- . Casa Garden
- . Cathedral of the Nativity of Our Lady
- . Dom Pedro V Theatre
- . Holy House of Mercy
- . Leal Senado Building
- . Lou Kau Mansion
- . Mandarin's House
- . Monte Forte
- . Moorish Barracks
- . Na Tcha Temple
- . Old Protestant Cemetery and the old headquarters of the British East Indies Company
- . Ruins of St. Paul's
- . Sam Kai Vui Kun
- . Section of the Old City Walls
- . Sir Robert Ho Tung Library
- . St Lawrence's Church
- . St. Anthony's Church
- . St. Augustine's Church
- . St. Dominic's Church
- . St. Joseph's Seminary and Church



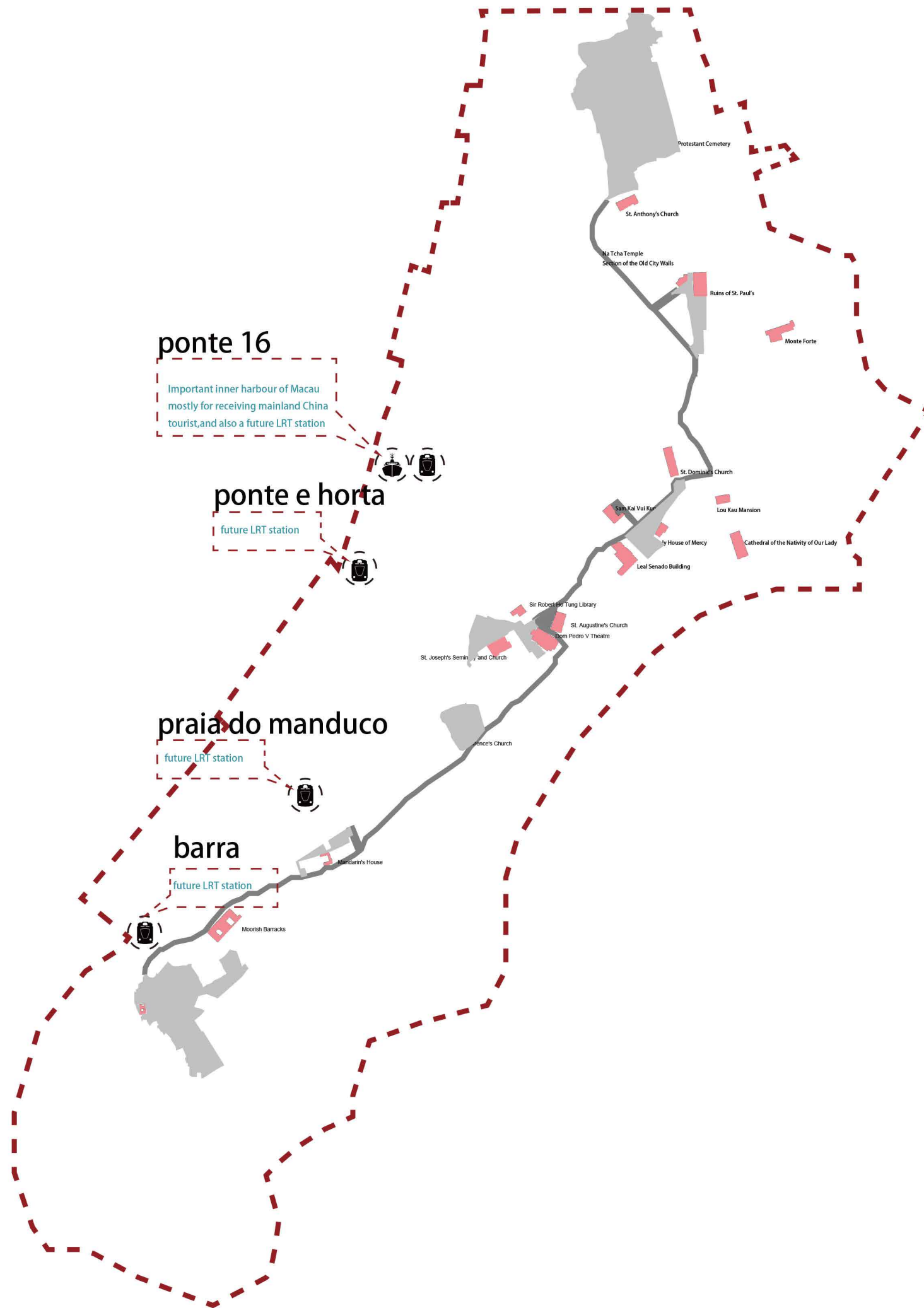
Historical Centres in Macau



green park

historical site & public space cluster

street_lineal public space

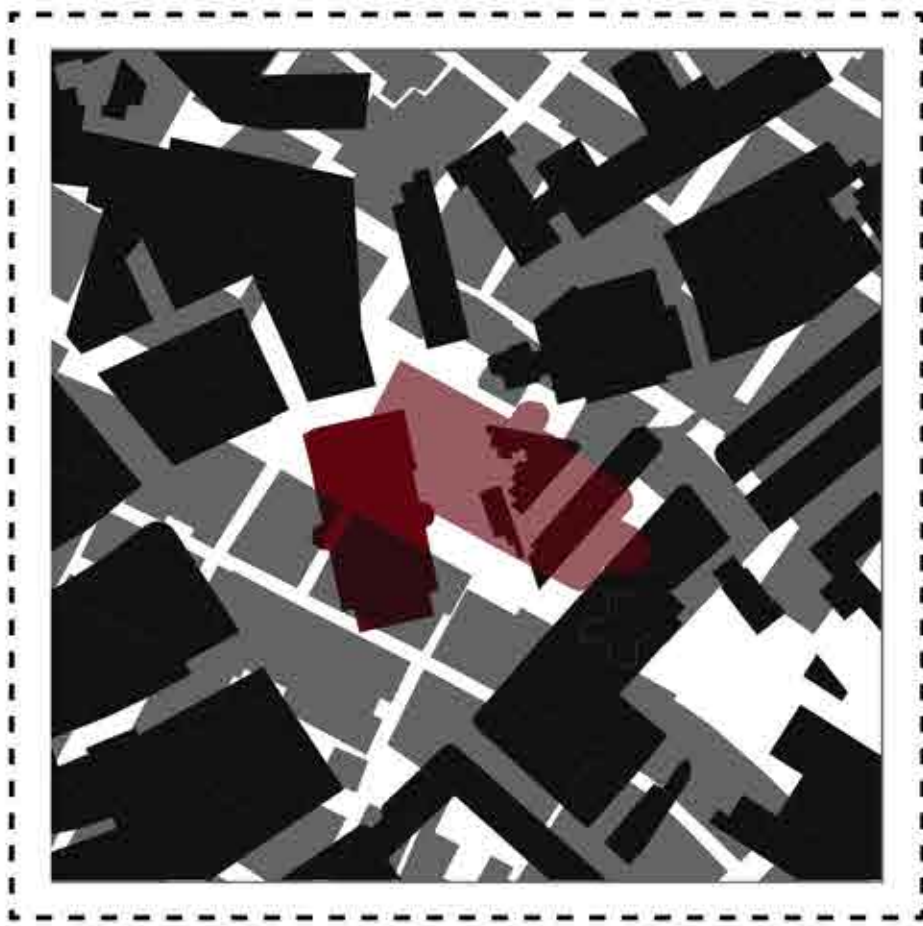


Arriving in Macau historical centres

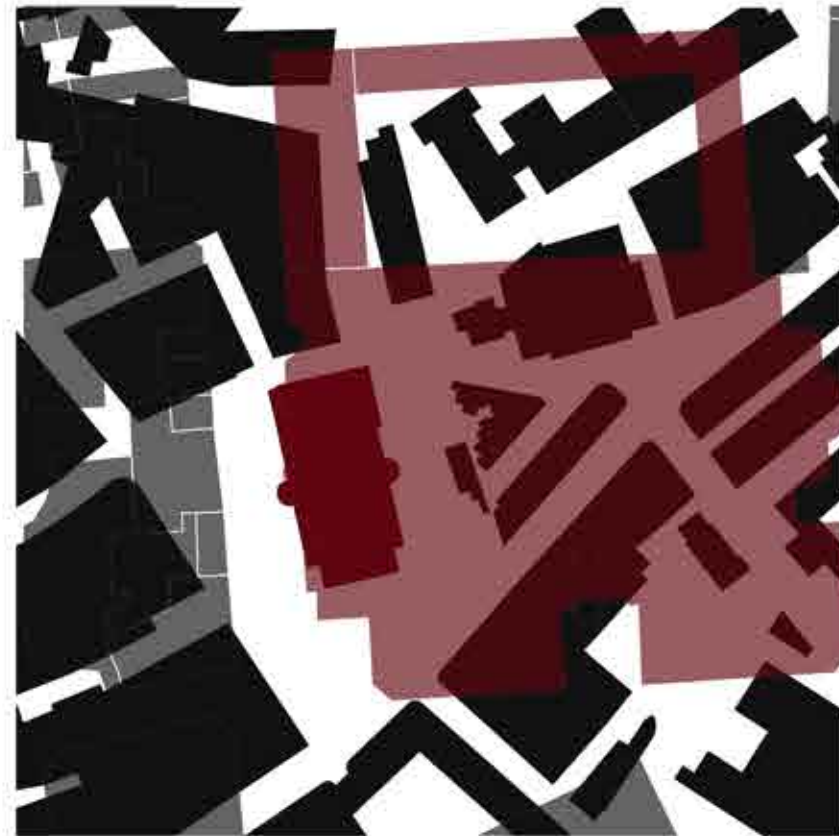


2" Connecting to the urban transportation system

Highly resemblance



St. Augustine's church_Macau & Catthedrale di san lorenzo_Genova



St. Augustine's church_Macau & Cathedral of Seville_Seville



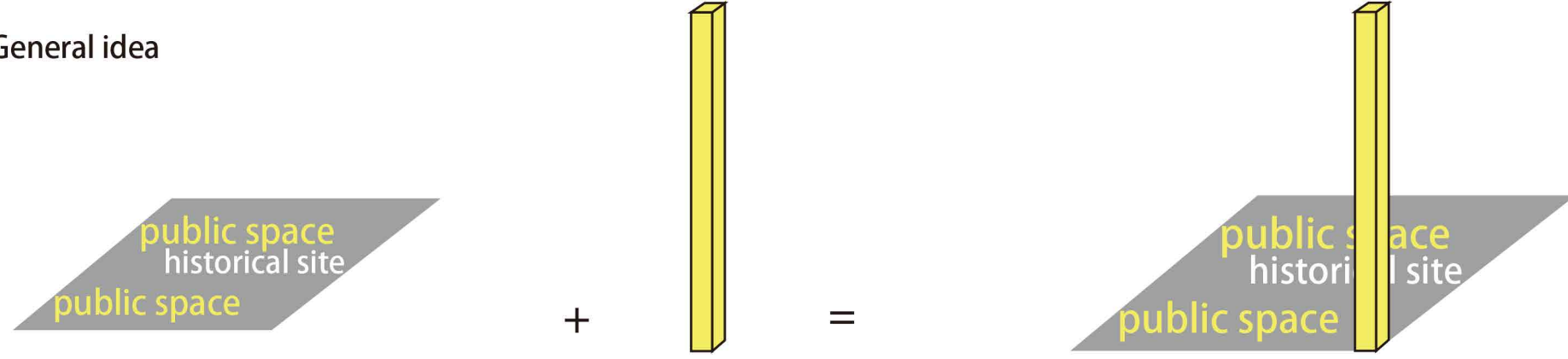
St. Augustine's church_Macau & Patheon_Rome

Learning from Bologna



Bologna_Slim Tower Wonder

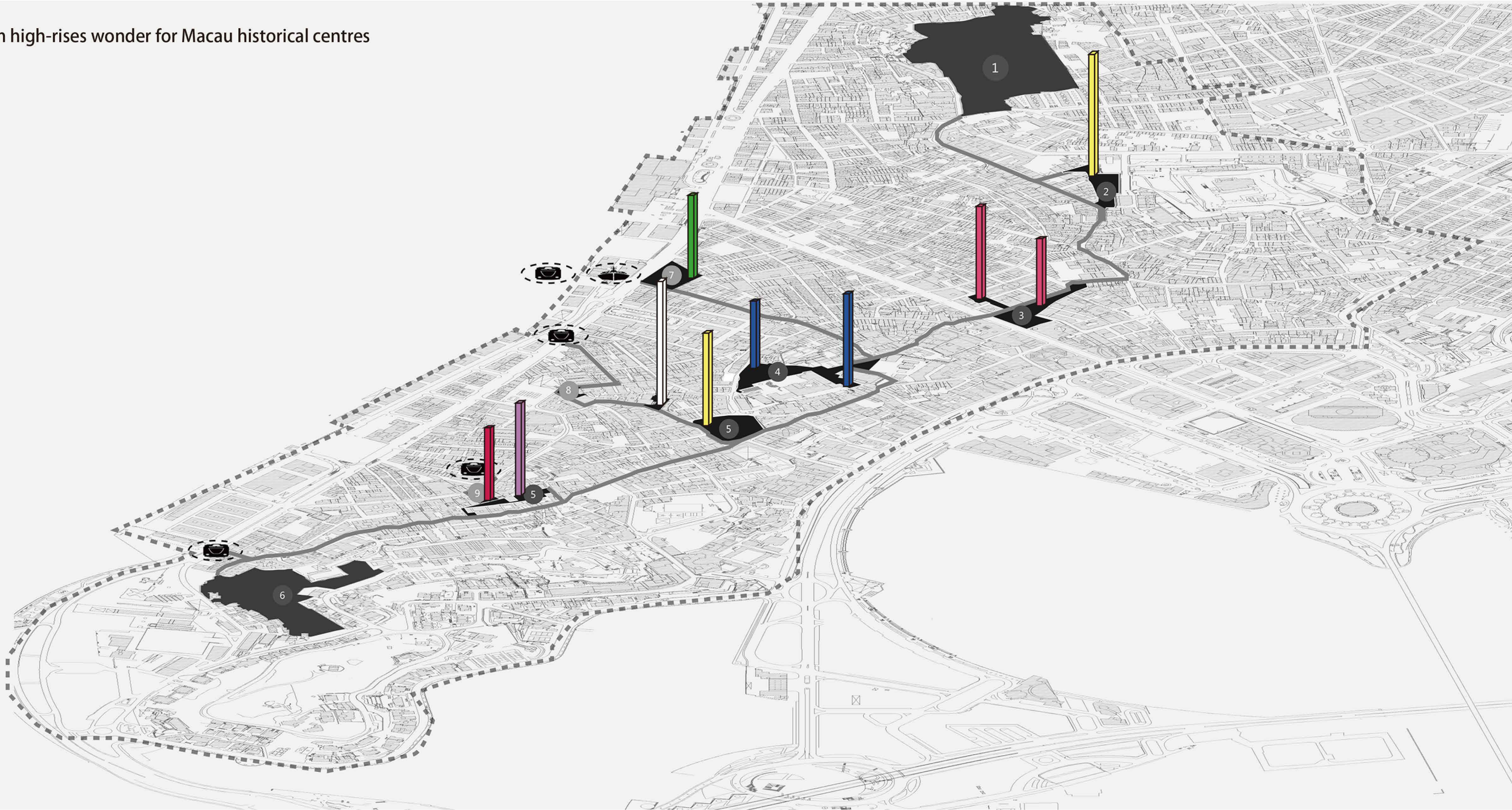
General idea



Each historical site cluster form an intergrated combination of historical buildings and potential public space. when we reorganize the public space and give its new program, The public space will be reactivated

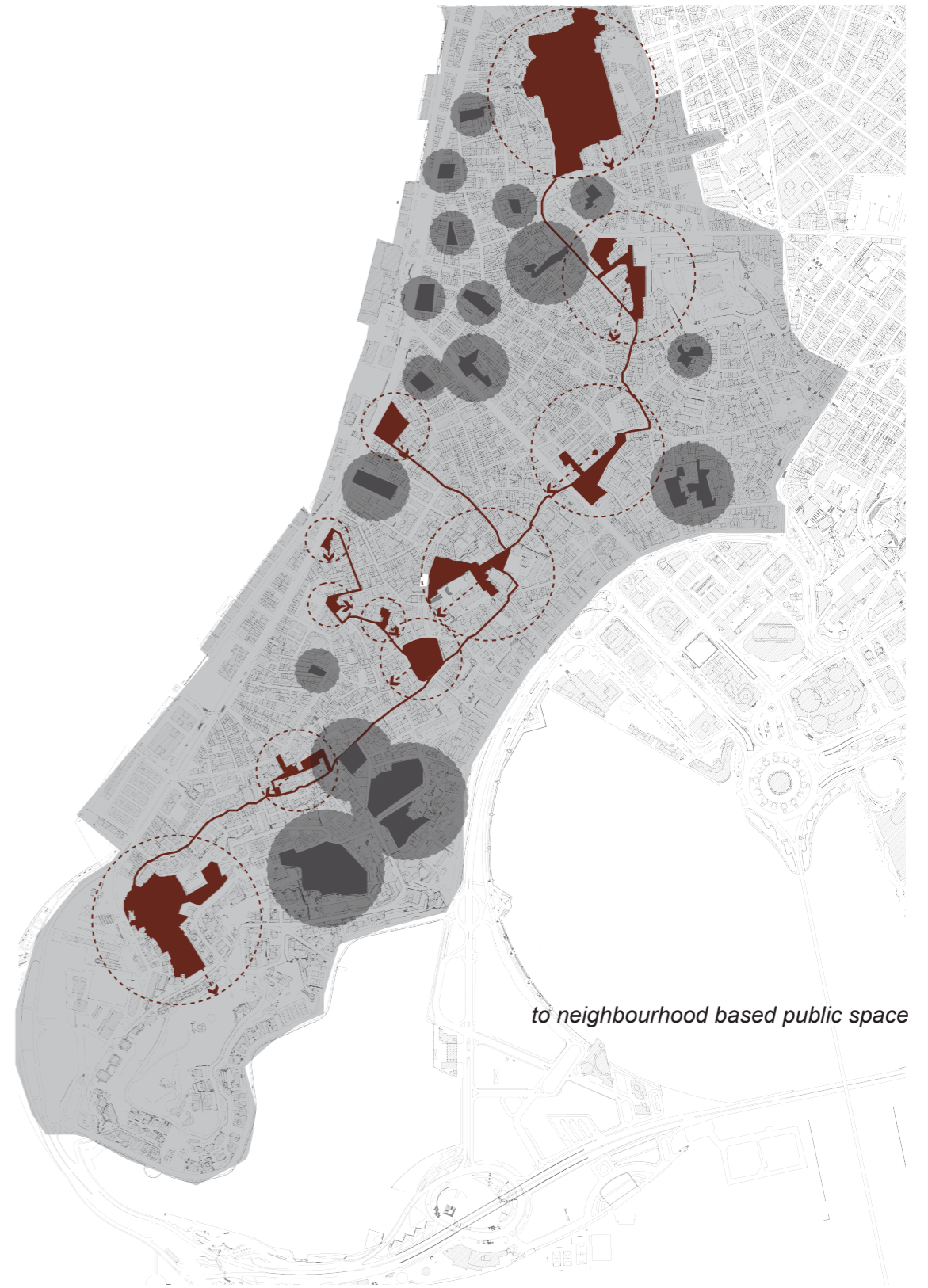
Insert slim high rises which not only serves as a lamp for implying the existing of public space, and also serve for the program of the public space. The organizers of the program, like companies can occupy the high-rise as their office site.

Slim high-rises wonder for Macau historical centres





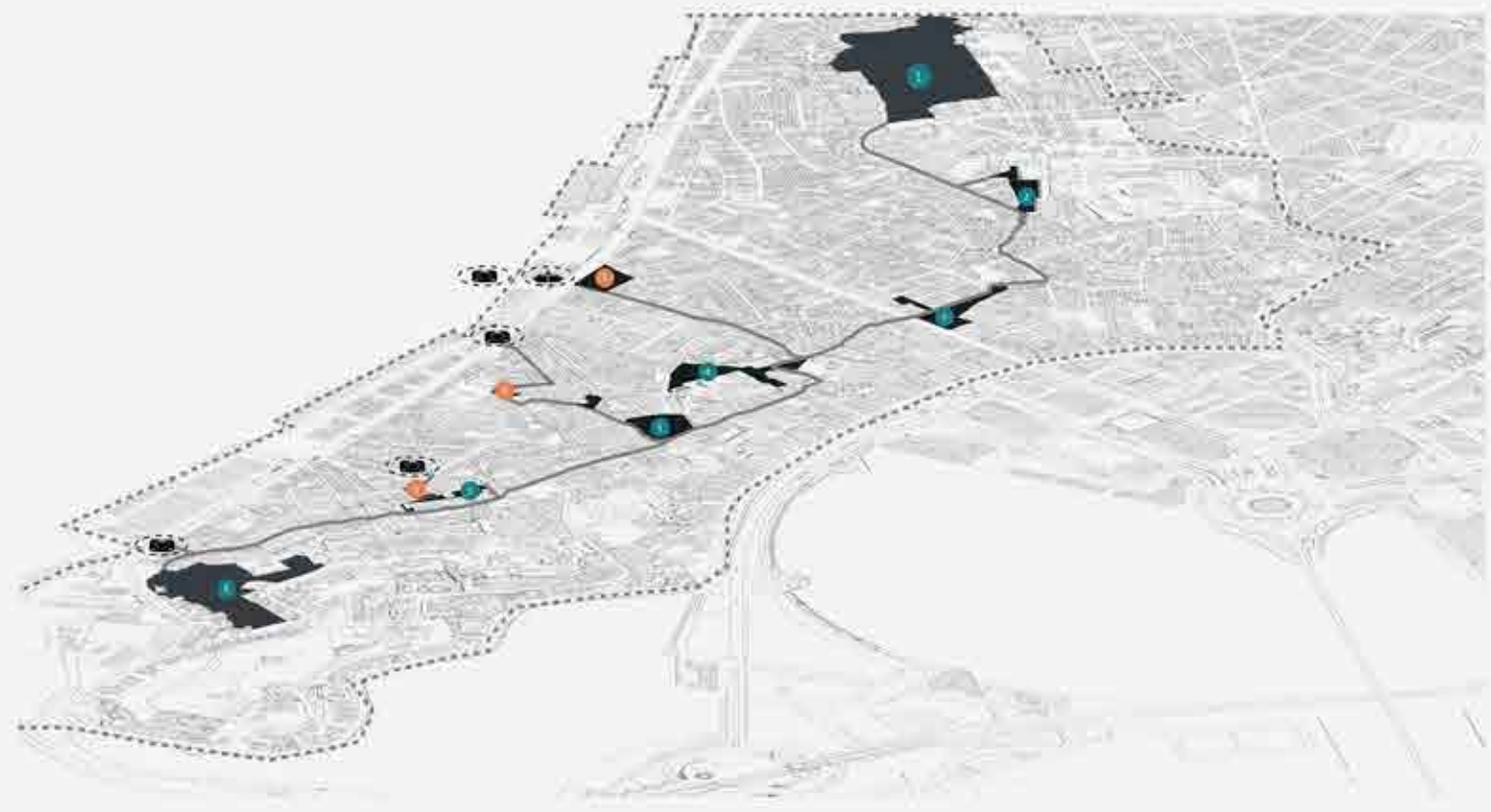
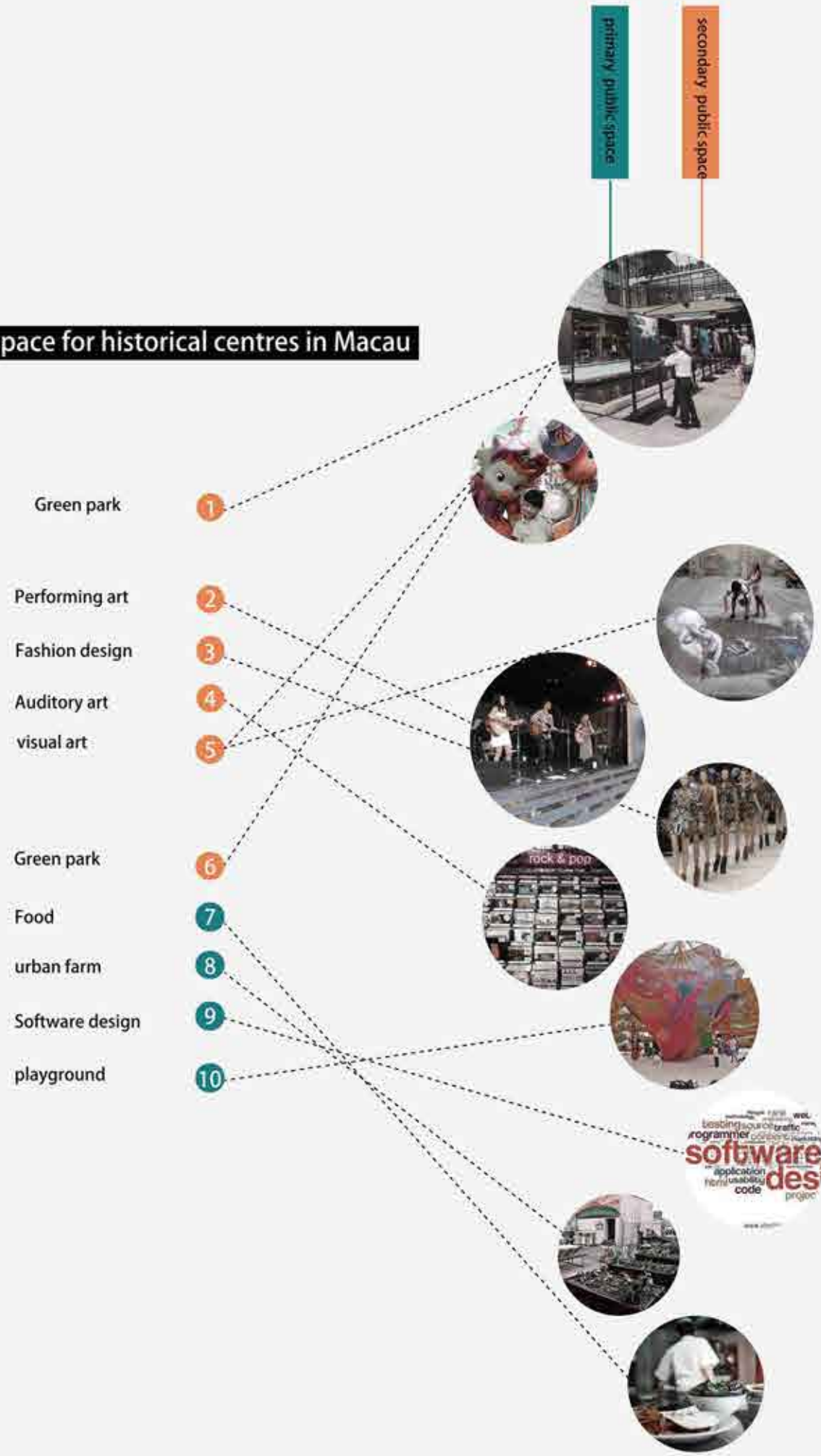
from tourist attraction based public space



to neighbourhood based public space

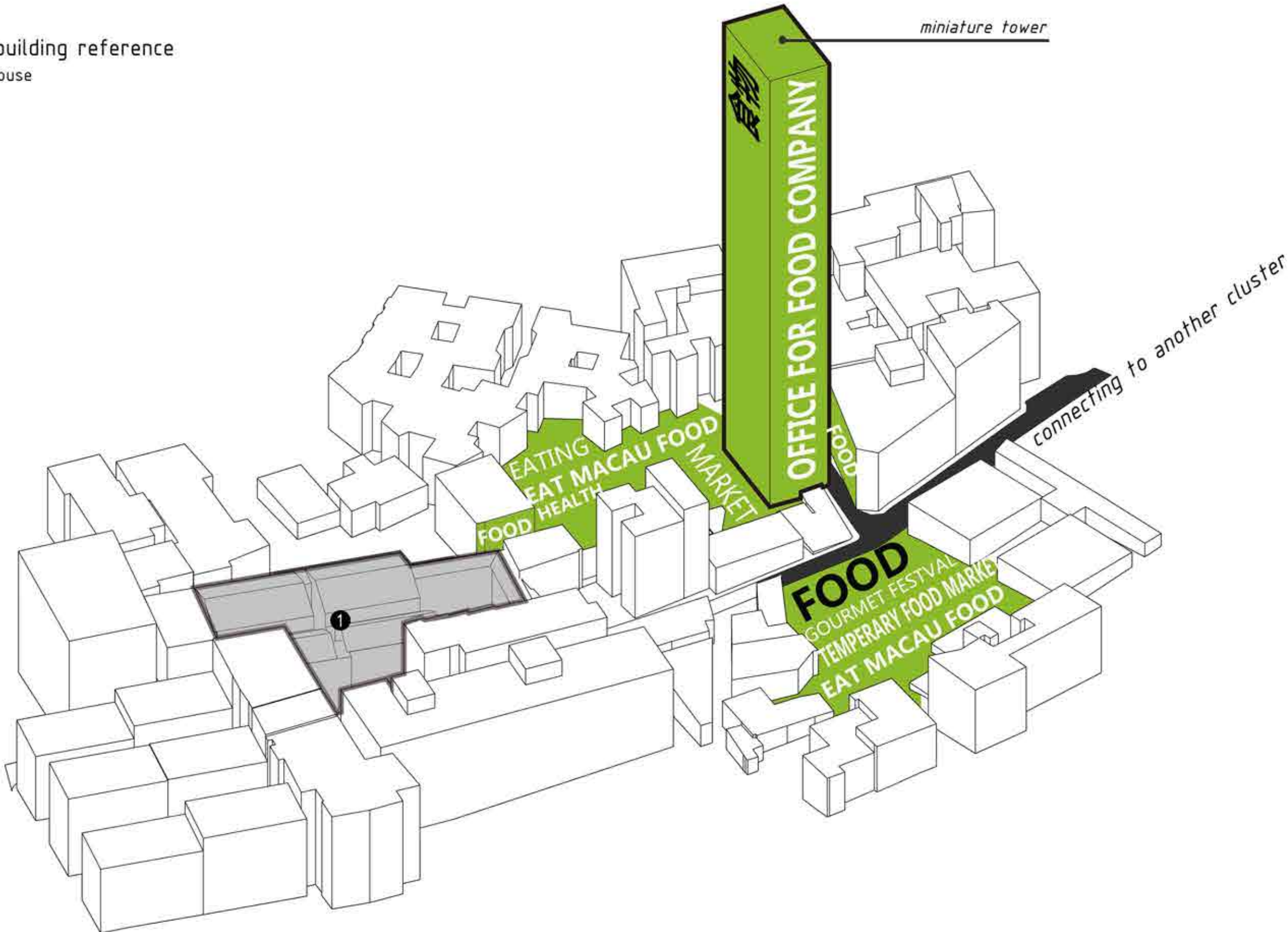
3" cover broader area_Macau reurbanization process

Programs of public space for historical centres in Macau



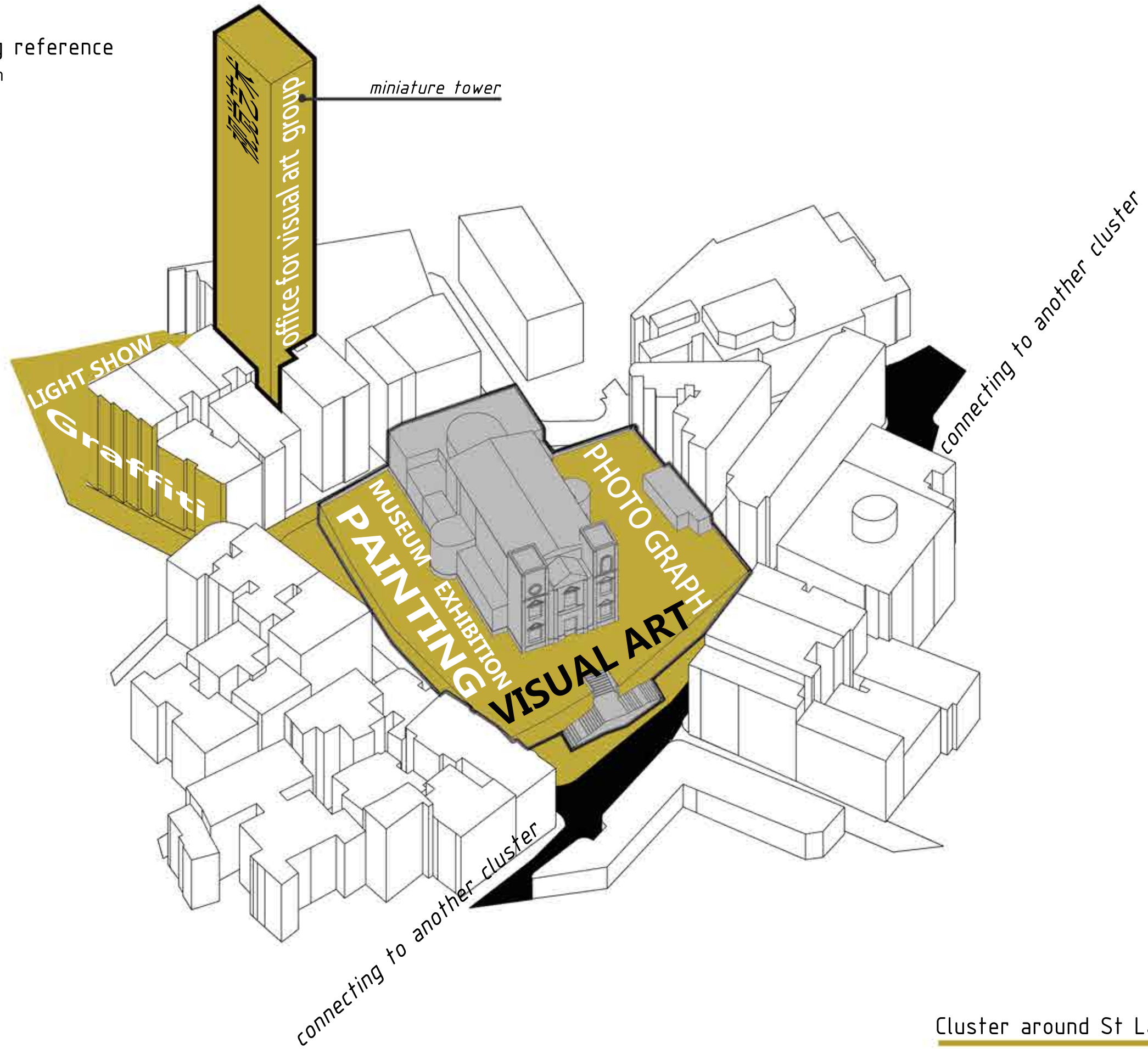
Historical building reference

1.Mandarin's House



Cluster around Mandarin's House

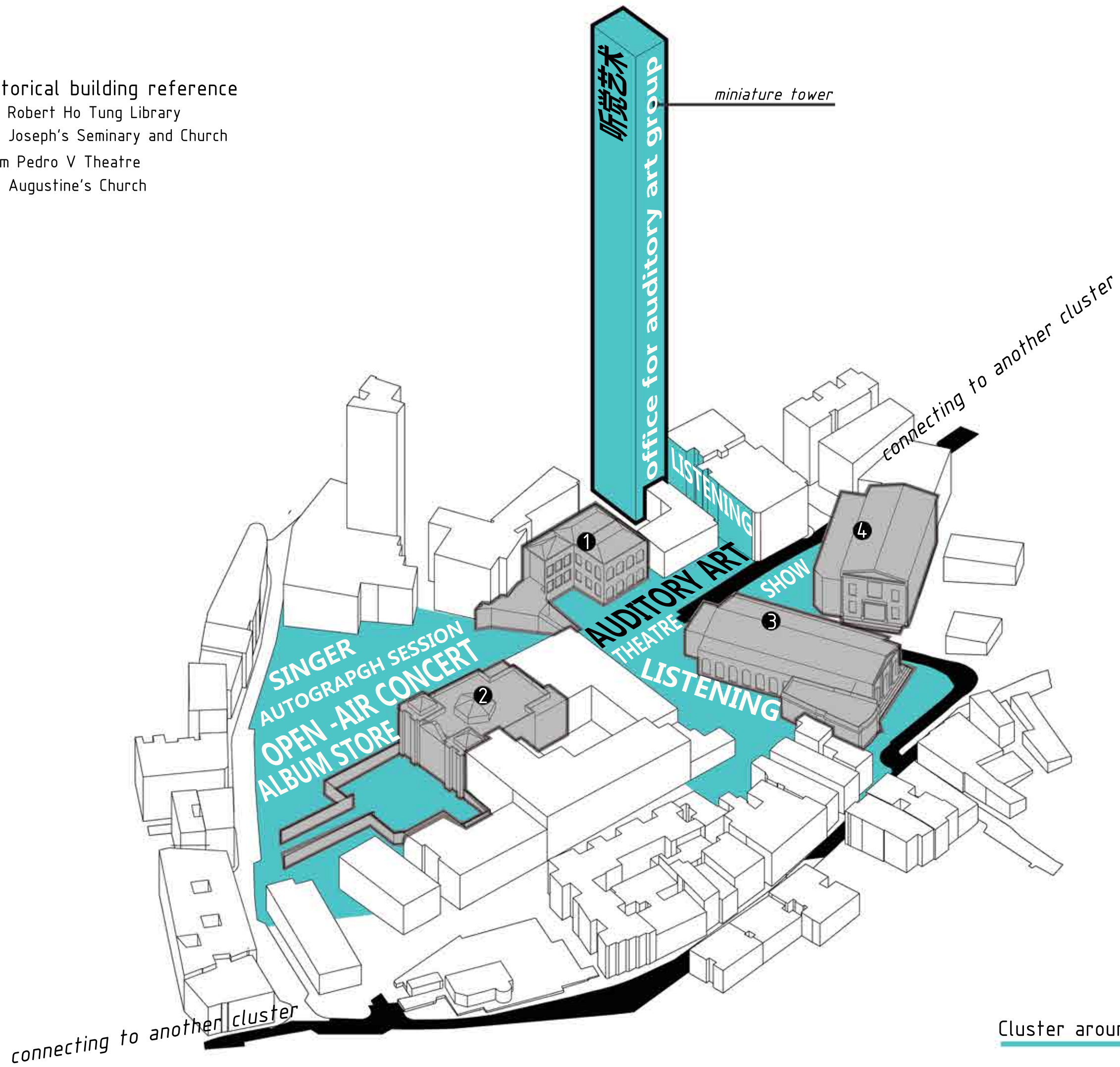
Historical building reference
1.St Lawrence's Church



Cluster around St Lawrence's Church

Historical building reference

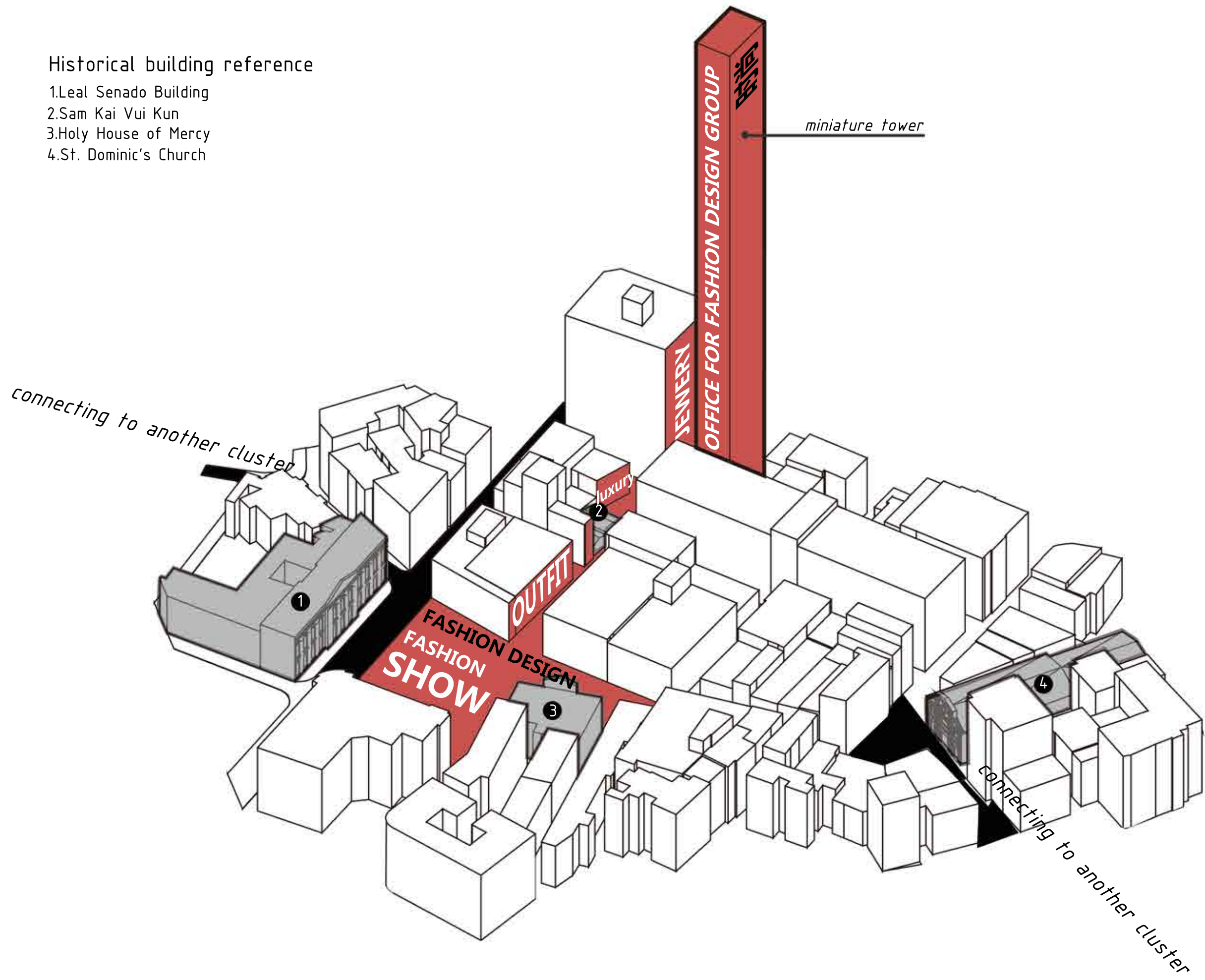
- 1.Sir Robert Ho Tung Library
- 2.St. Joseph's Seminary and Church
- 3.Dom Pedro V Theatre
- 4.St. Augustine's Church



Cluster around Dom Pedro V Theatre

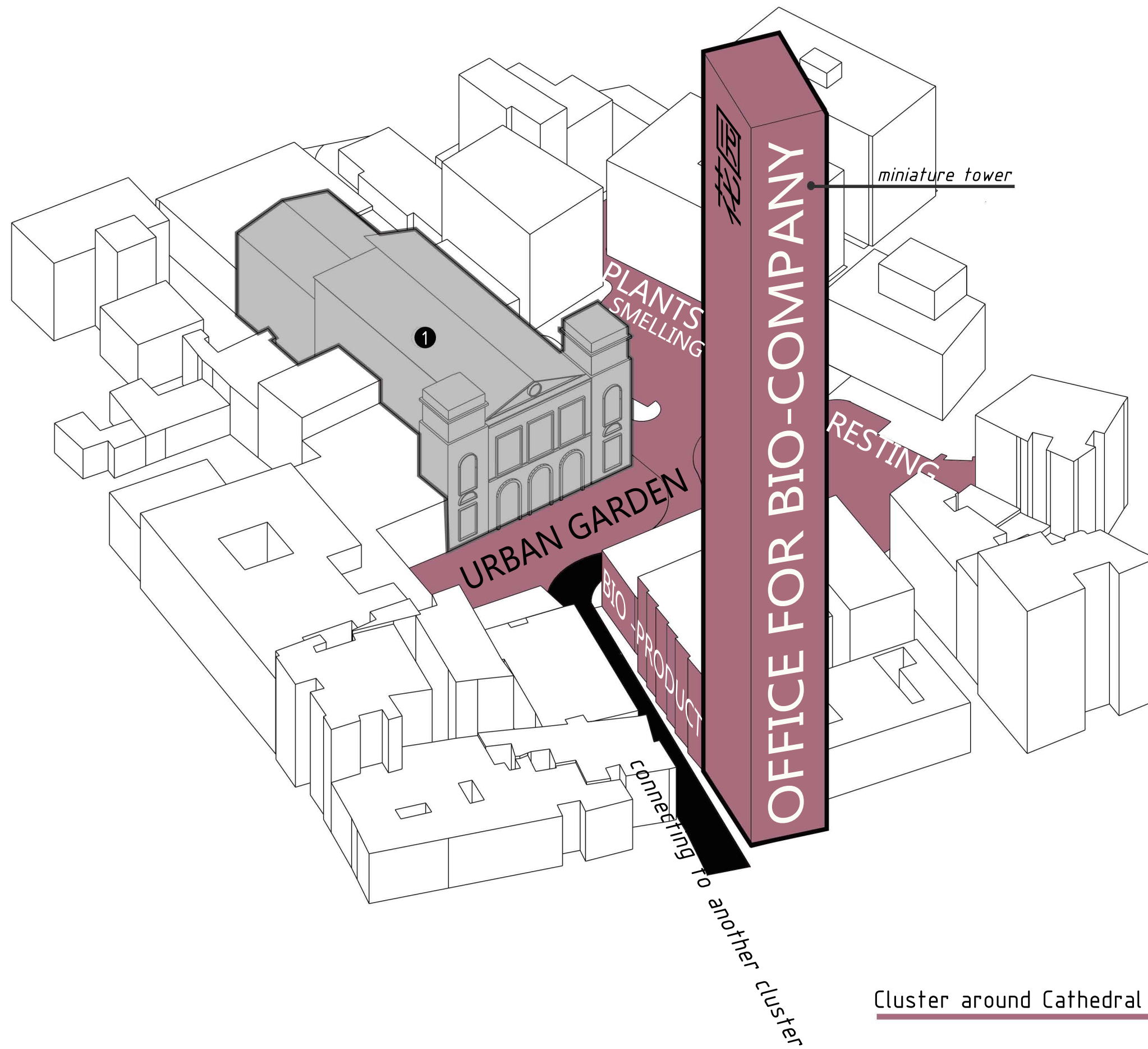
Historical building reference

- 1.Leal Senado Building
- 2.Sam Kai Vui Kun
- 3.Holy House of Mercy
- 4.St. Dominic's Church



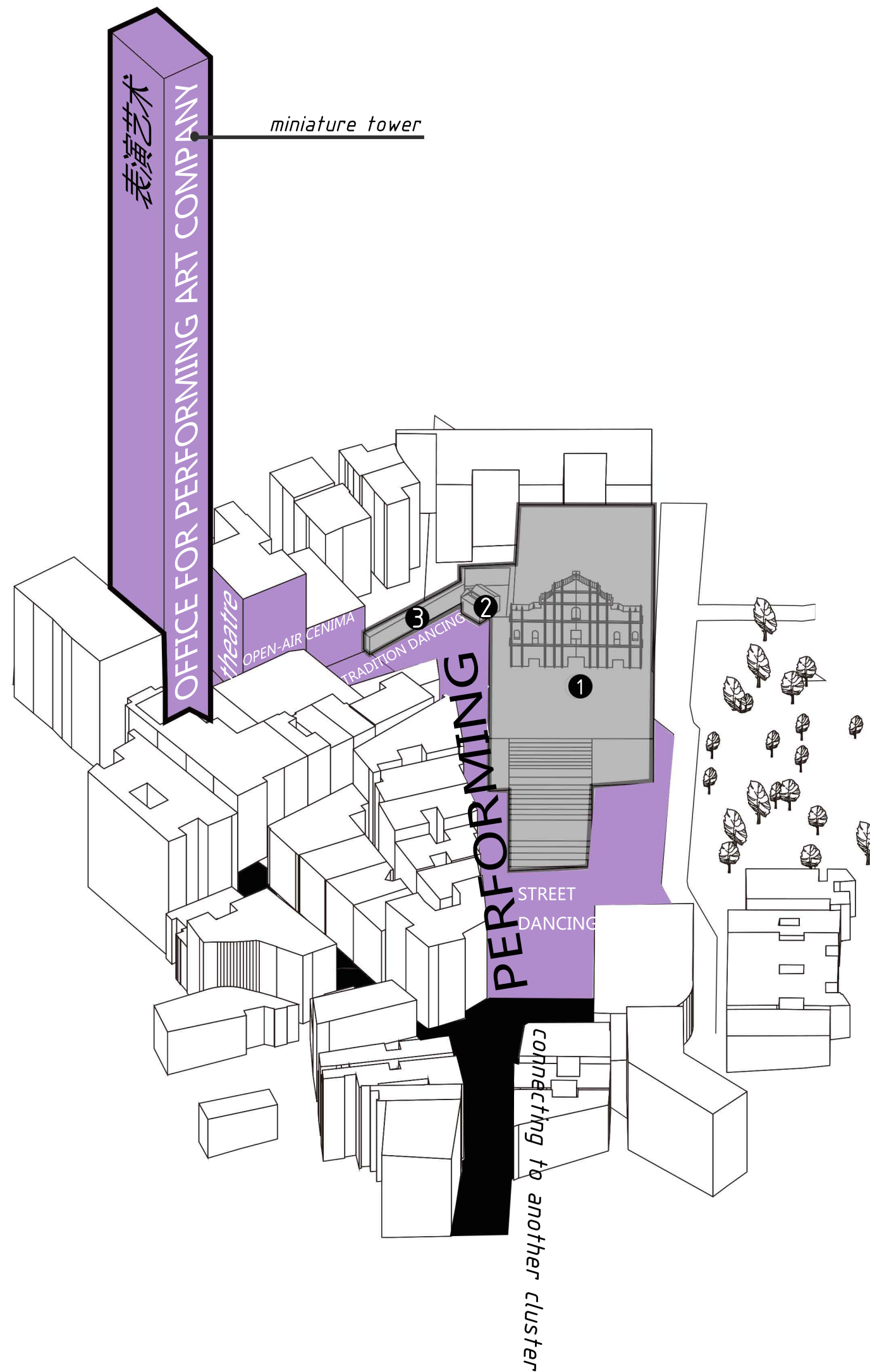
Historical building reference

1.Cathedral of the Nativity of Our Lad

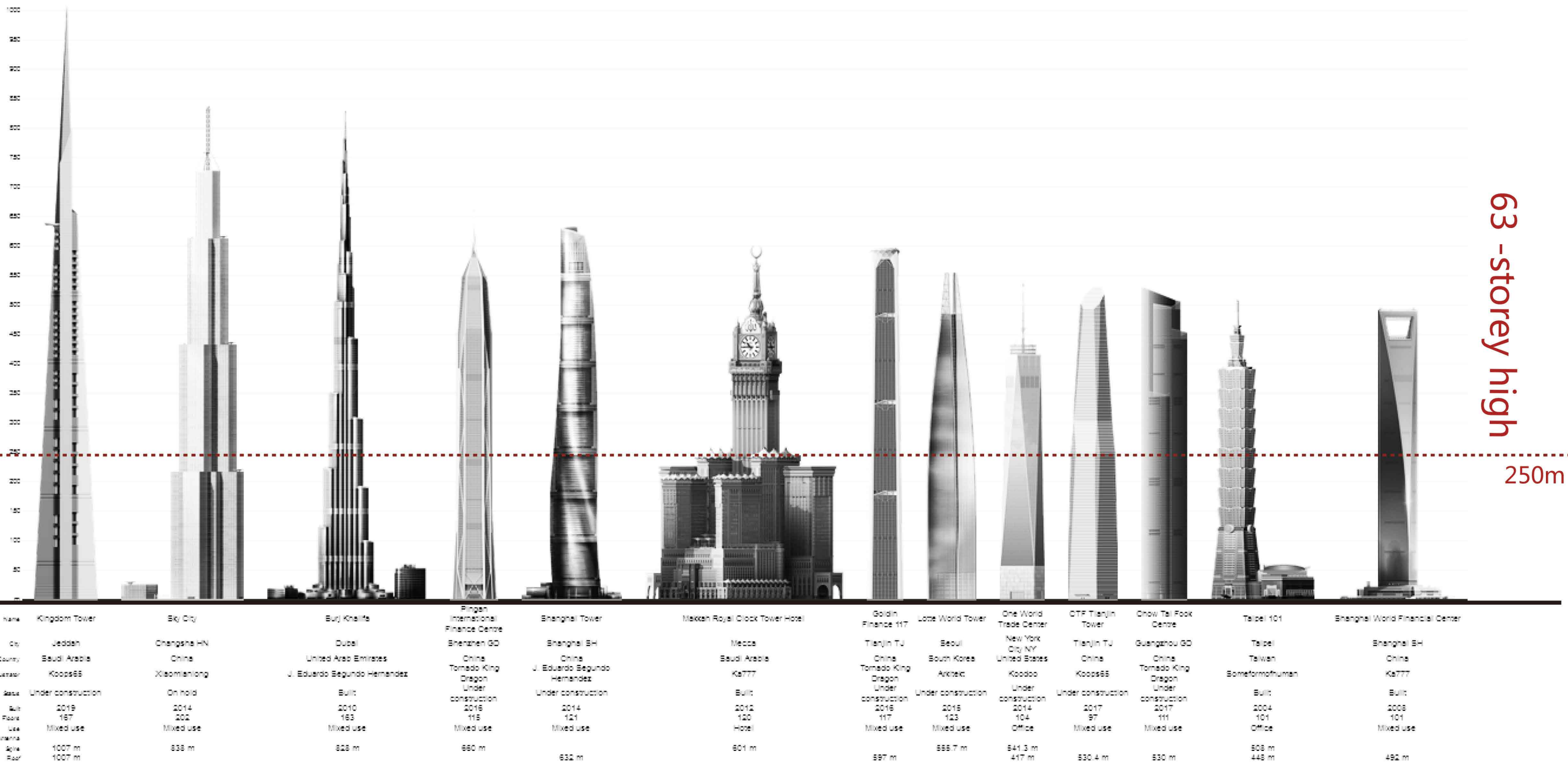


Cluster around Cathedral of the Nativity of Our Lad

- Historical building reference
1. Ruins of St. Paul's
 2. Na Tcha Temple
 3. Section of the Old City Walls



The height of the slim high-rise-from economic aspect



William Clark and John Kingston, an economist and an architect writing in 1930, found that the profit-maximising height for a skyscraper in midtown New York in the 1920s was no more than 63 storeys. (The ideal height is probably not much different today.)



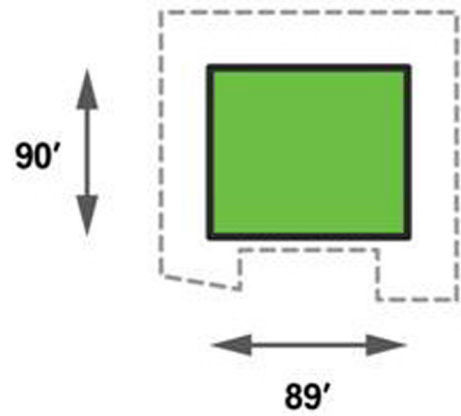
UPCOMING TREND

Skinny Highrise

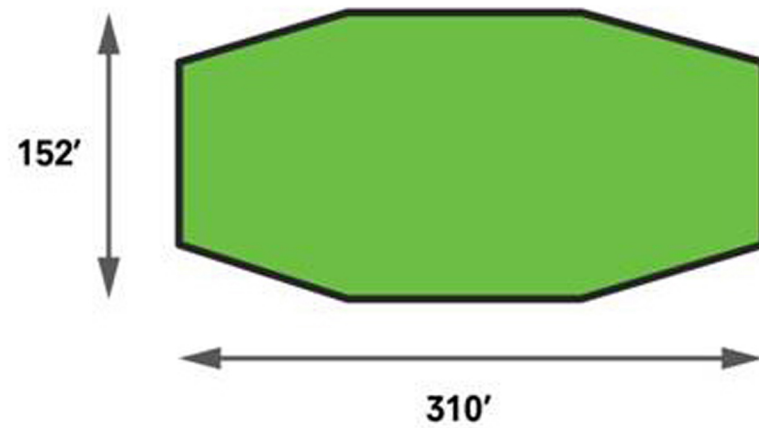
THE WORLD SKINNIEST HIGH RISE

111 West 57th Street

Rising to 1,421 Feet=433.1208M



**CHRYSLER BUILDING //
WILLIAM VAN ALLEN // 1930**

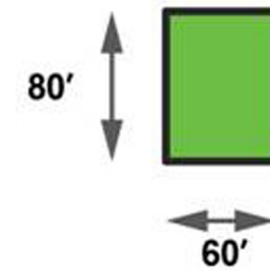


**METLIFE //
EMERY ROTH & SONS, BELLUSCHI & GROPIUS // 1963**

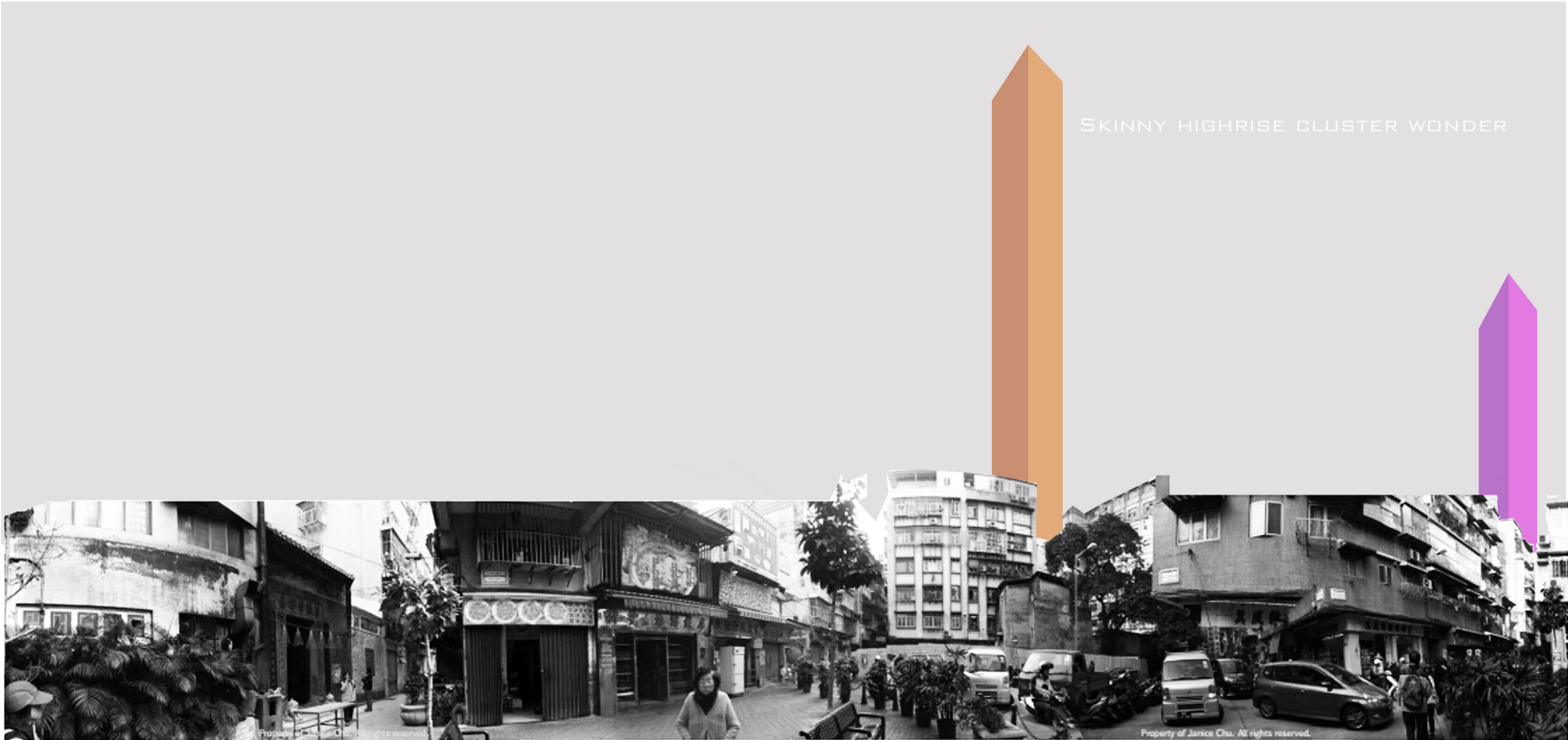
THE WORLD SKINNIEST HIGH RISE
111 West 57th Street



Height:433m



**111 WEST 57TH//
SHOP ARCHITECTS// 2014**

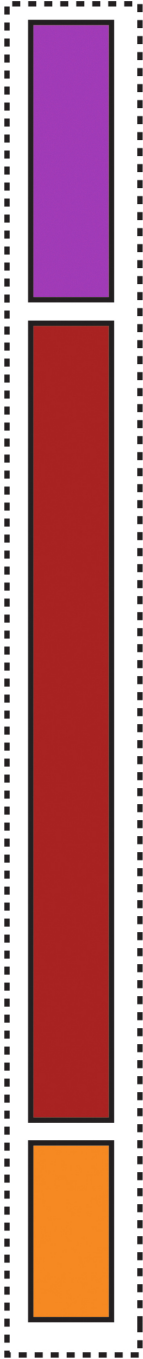


Instead of having huge size highrises to fulfill the need of fast-growing population, The clusters of skinny highrises which are spreaded in the old city, give you a delighter feeling and more sky to be viewed.

Macau skyline



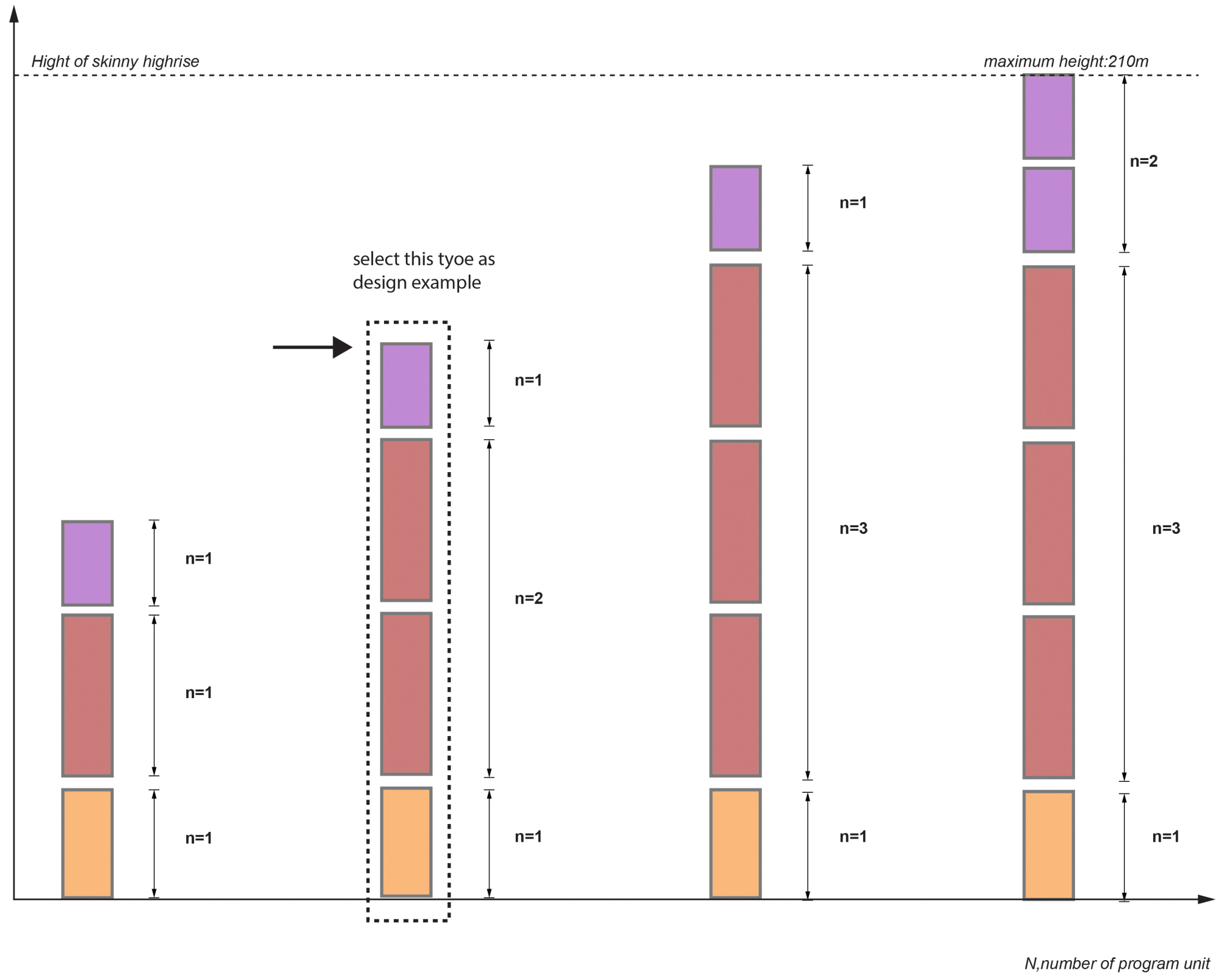
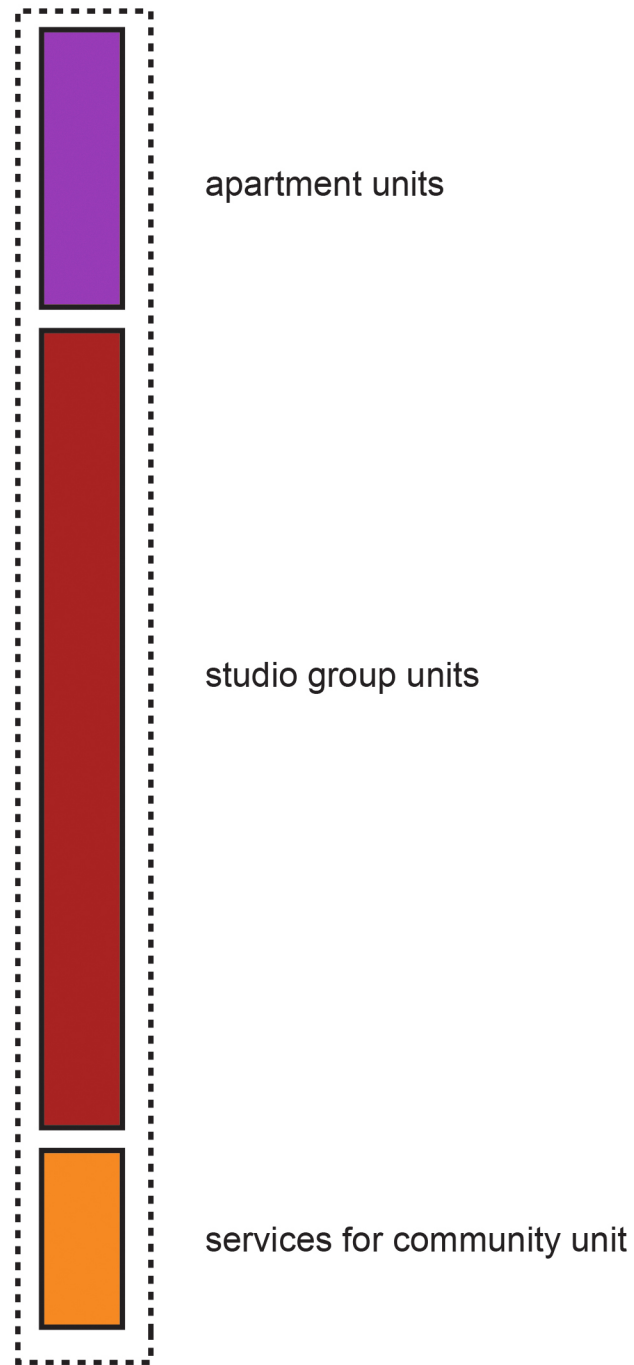
Instead of having a complicated volume, which would diminish the power of a cluster of skinny high-rises, a pure and clear-shaped rectangular part is even better recognized in the city skyline. Then in this stage, the skinny high-rise are decided to have rigid shape and simple nice outlook.



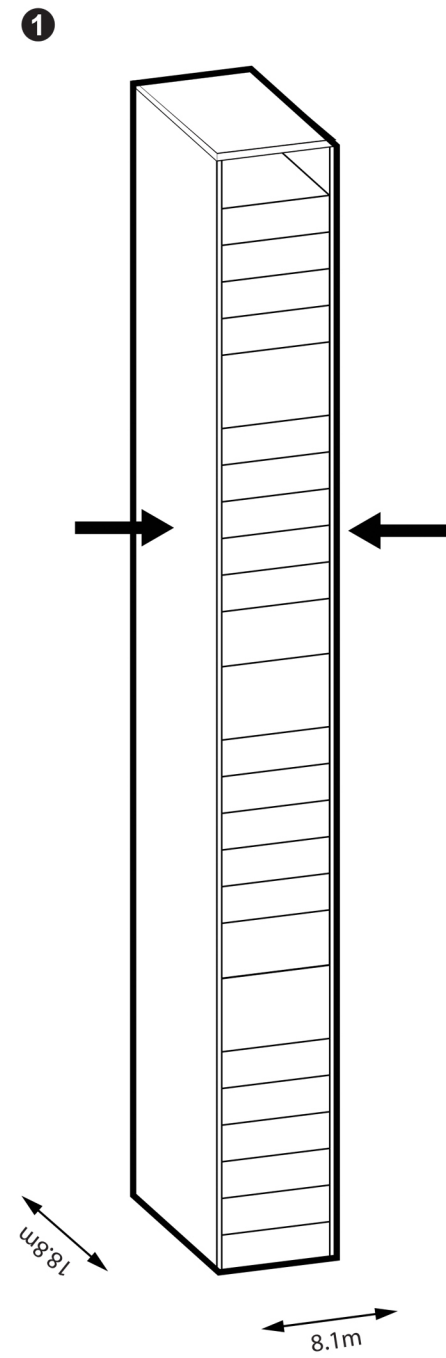
apartment units

studio group units

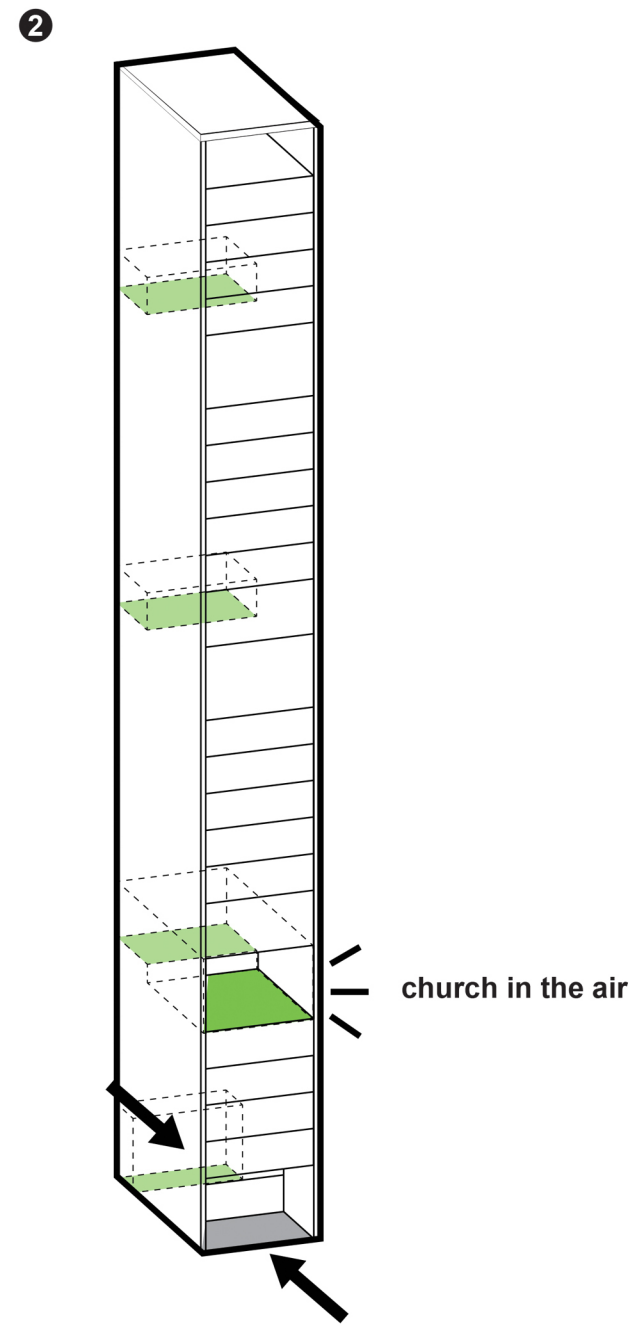
services for community unit



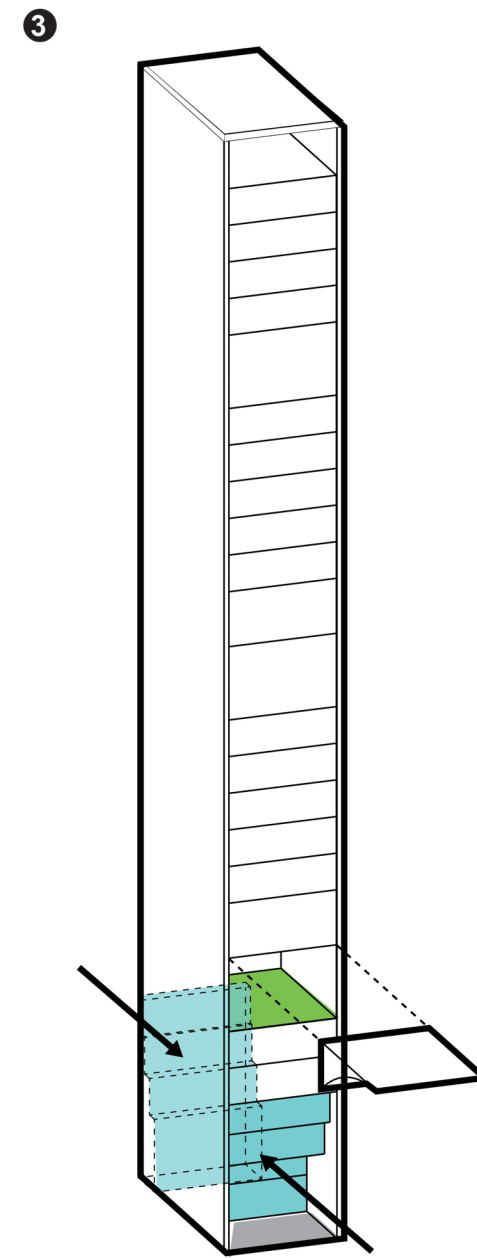
Tight the width of the building



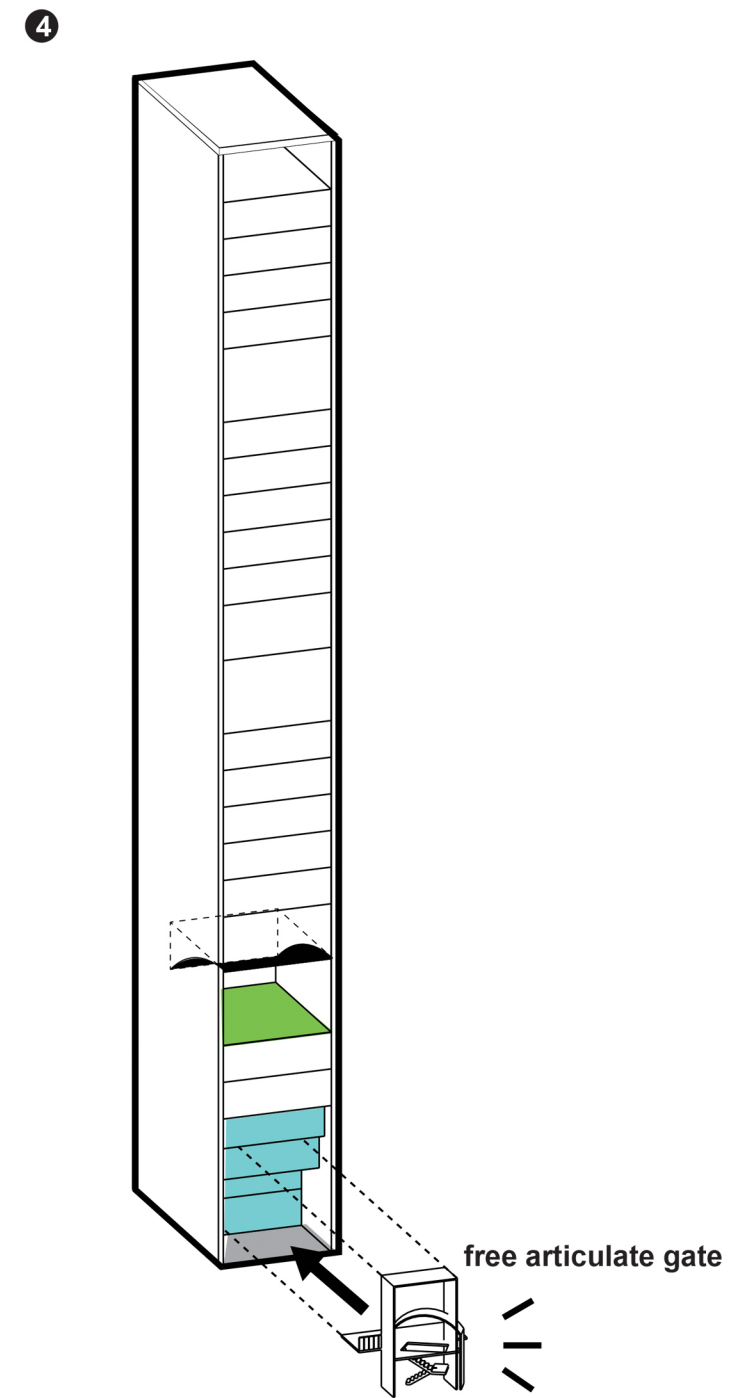
Set back and free the ground floor, adding Green space in the air



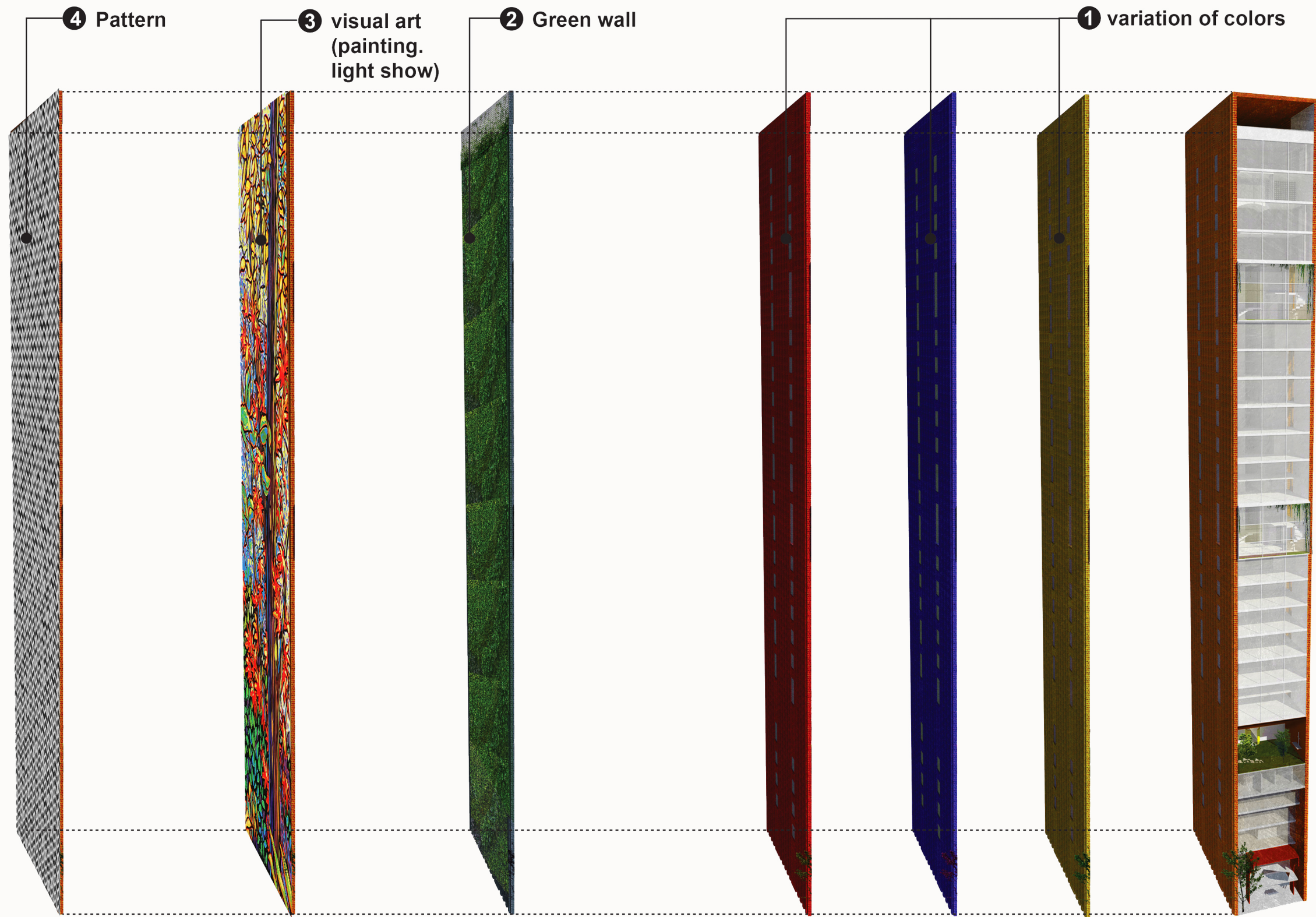
Keep setting back the upper floor to create a zigzag contour, which makes the lower floors of the building more welcoming. adding a curve vault to the church in the air

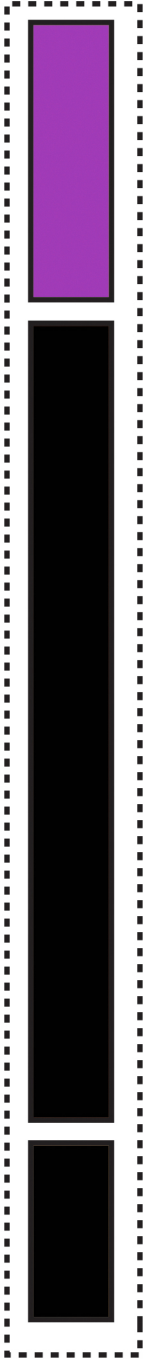


Adding a free articulated gate



POSSIBILITY OF THE FACADE



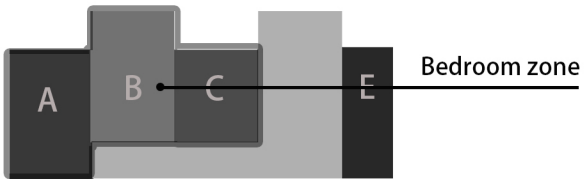
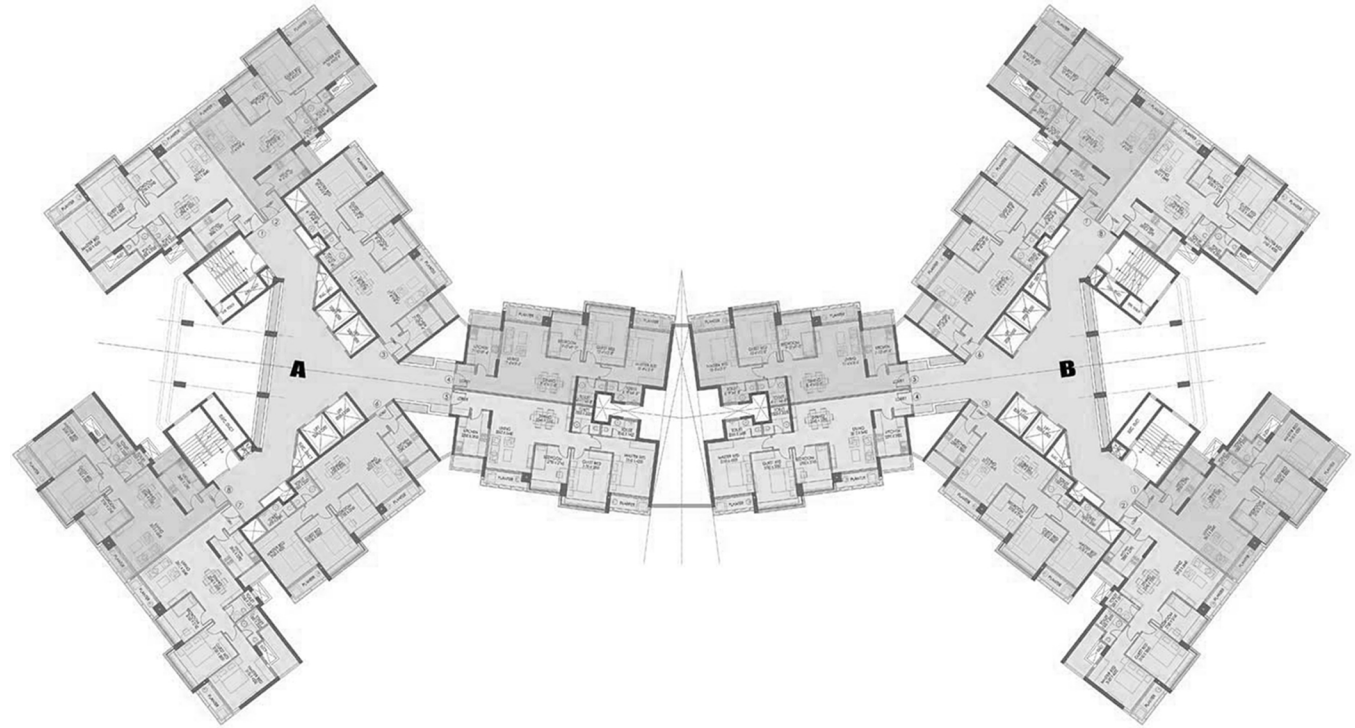
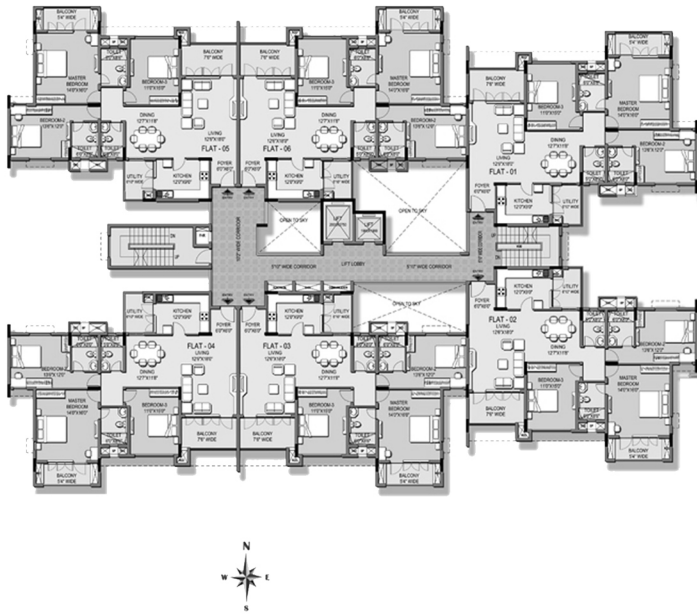


apartment units



What does the high-rise residence look like in Macau ?

Typical floor plan of residence building in Macau



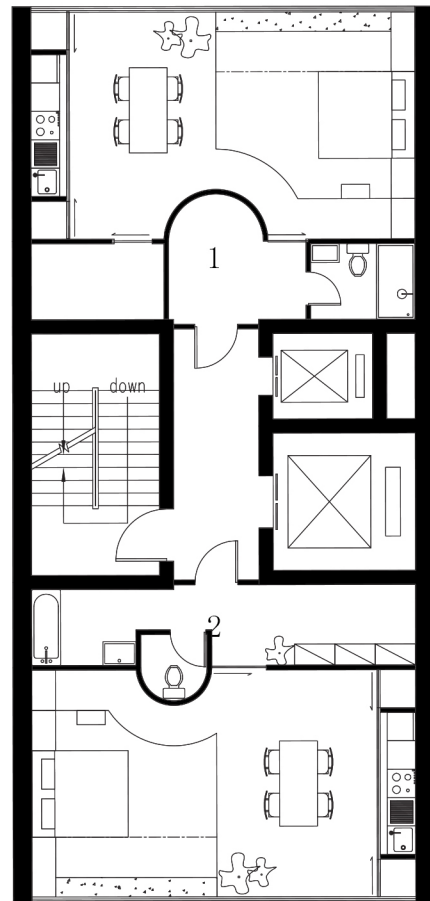
every room get a slice of view of the sky

And do we really need that many bedrooms?

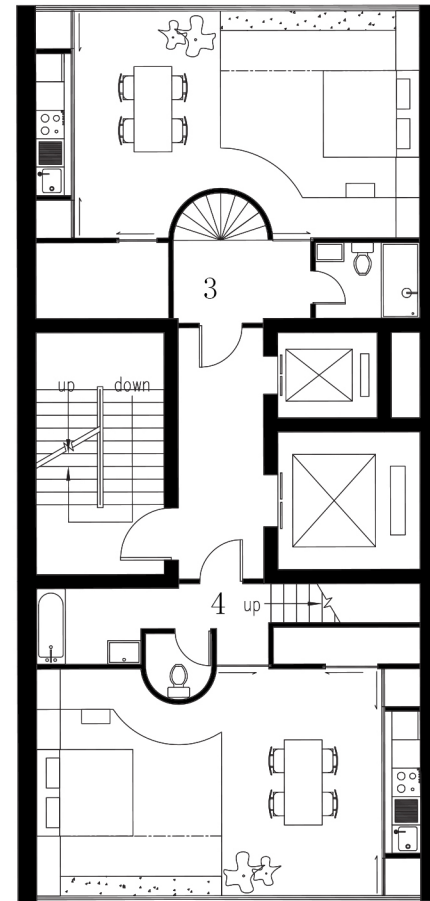
A four-floor unit _apartment part

There are three-standard apartment level. First one is light blue one which includes only one bedroom. And the second and third is for maximal three bedrooms which are attained through the flexibility of smart furniture. Further more ,the third standard is slightly different. It's not a duplex system but it occupy a whole floor.

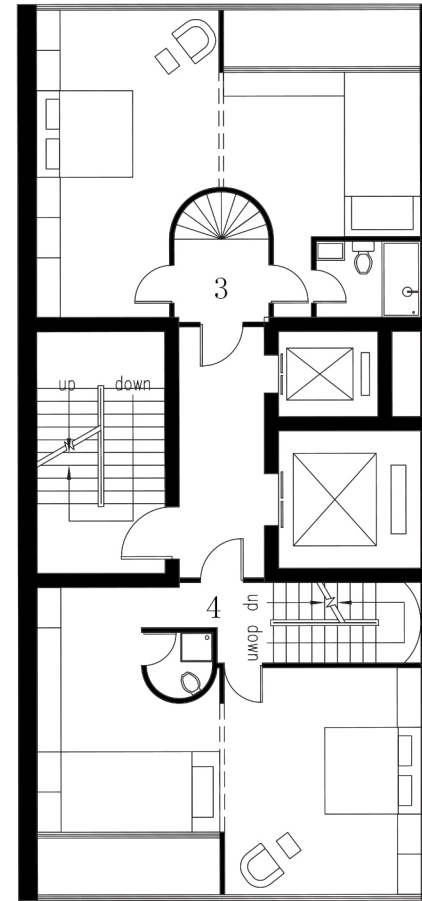
A



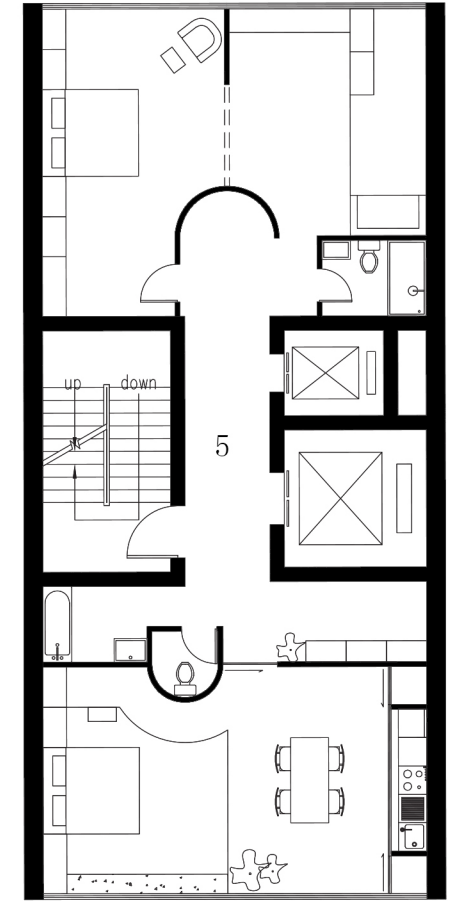
First floor plan A



Second floor plan



Third floor plan



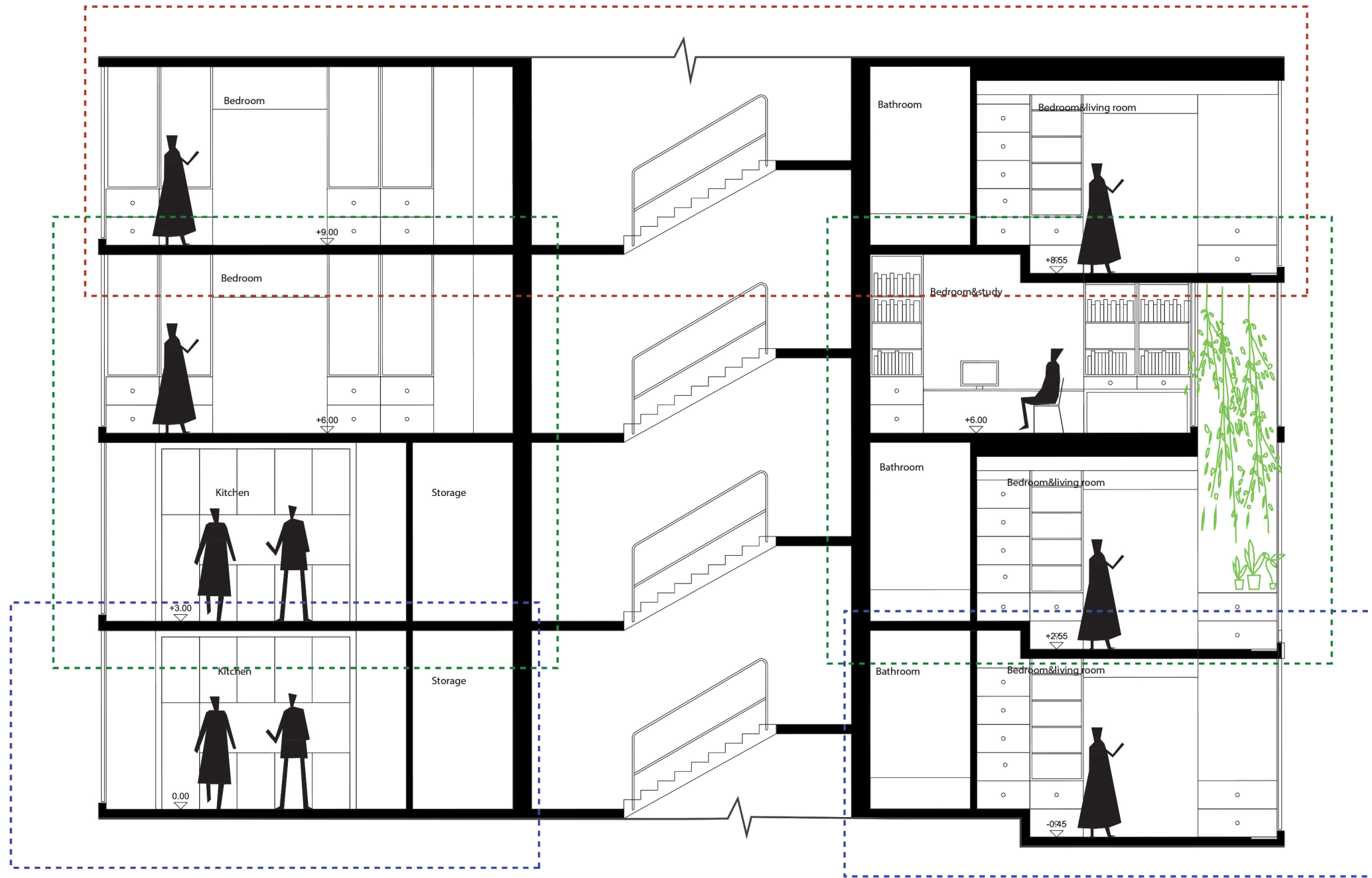
Forth floor plan

Section_four-floor apartment unit

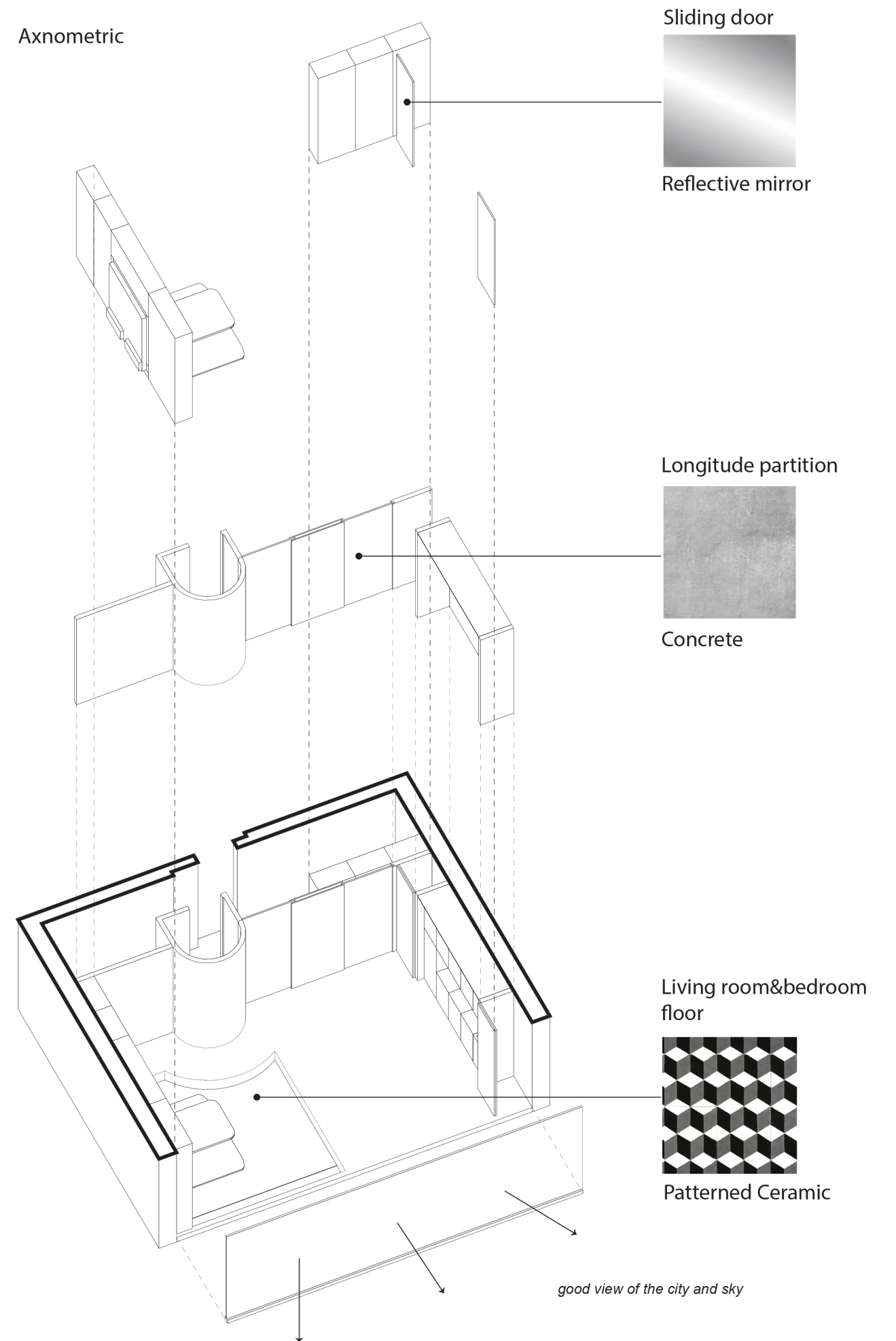
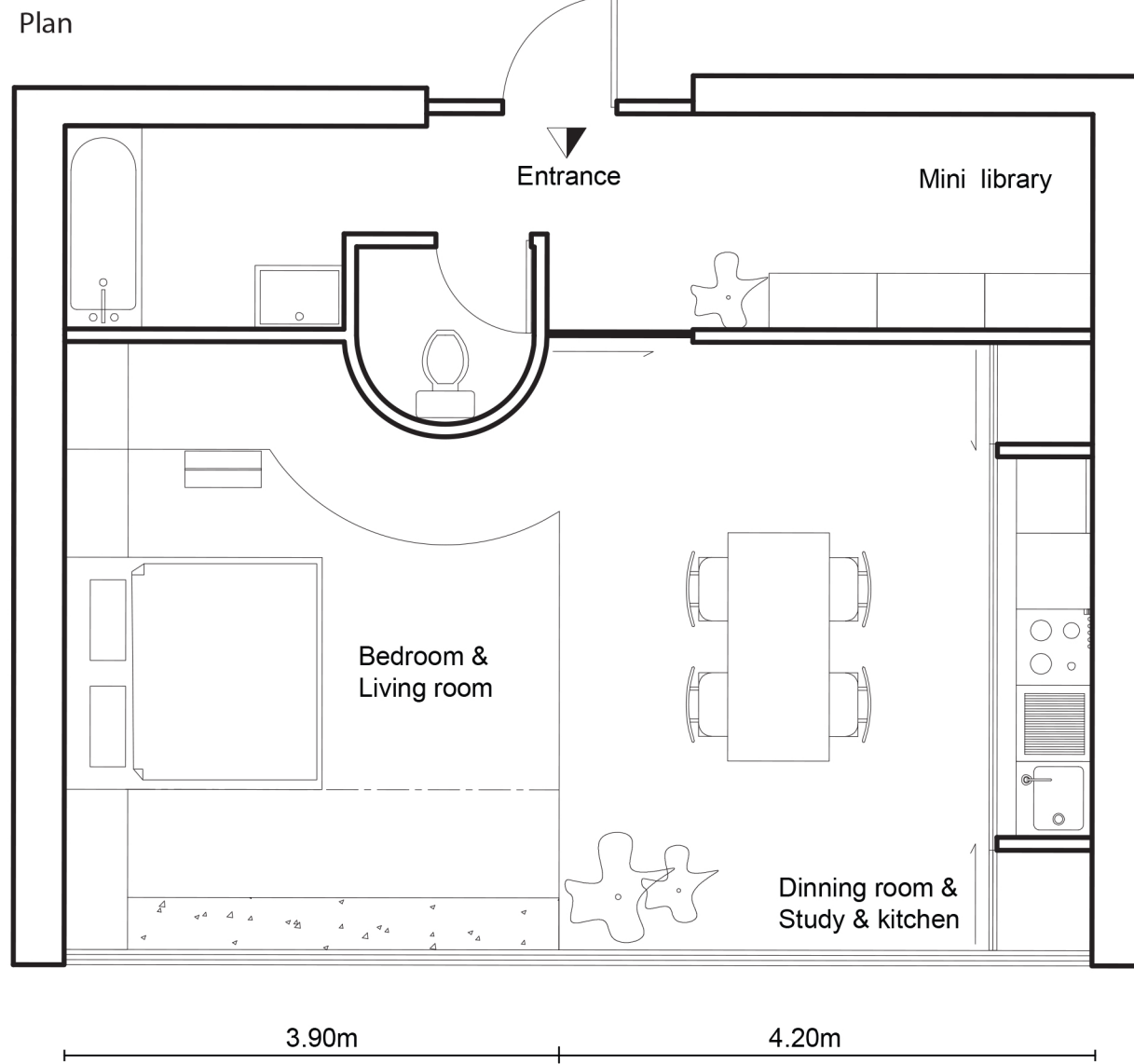
Third standard apartment

Second standard apartment

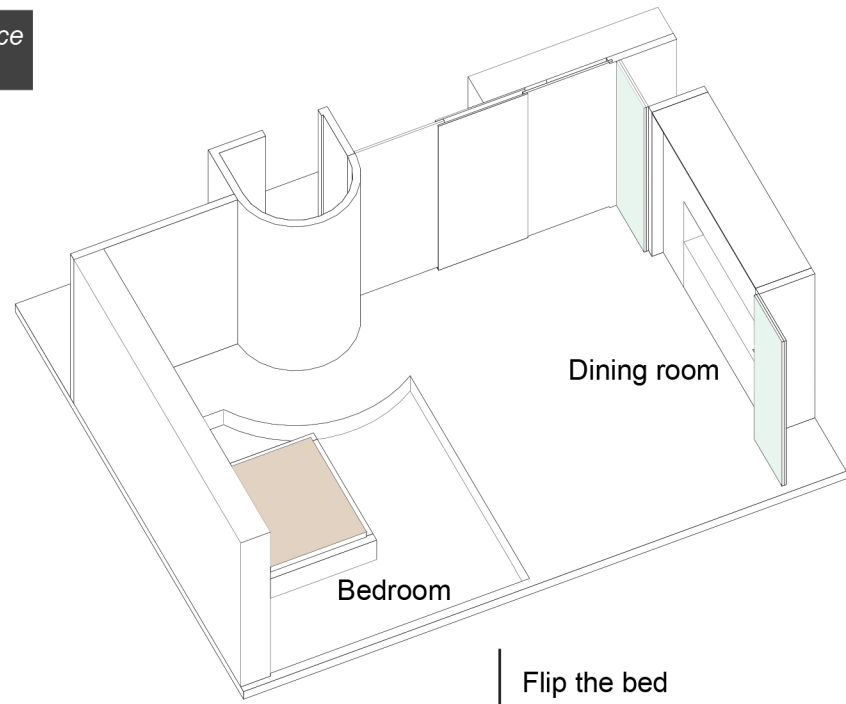
First standard apartment



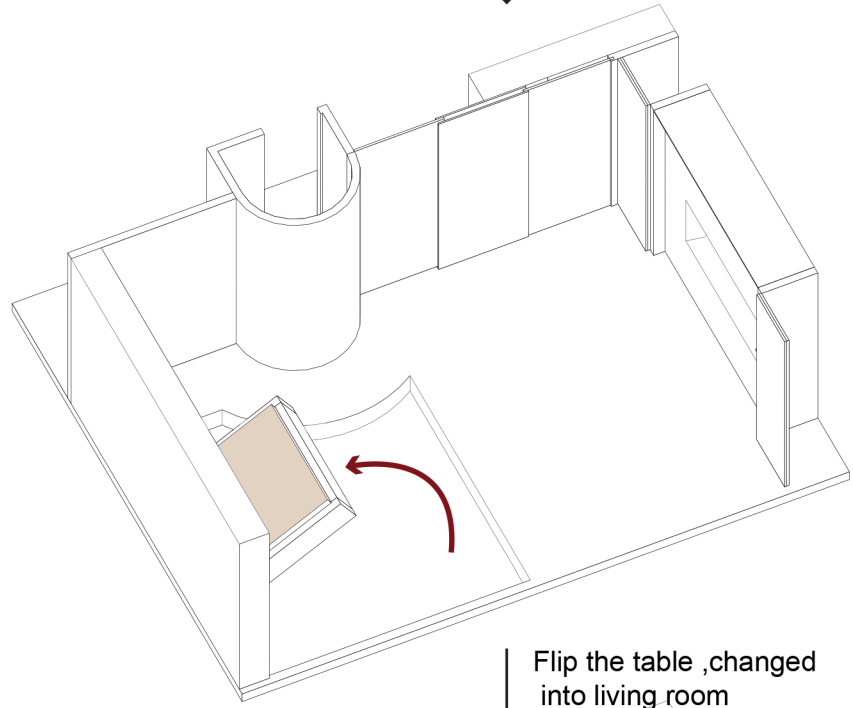
Apartment for one bedroom



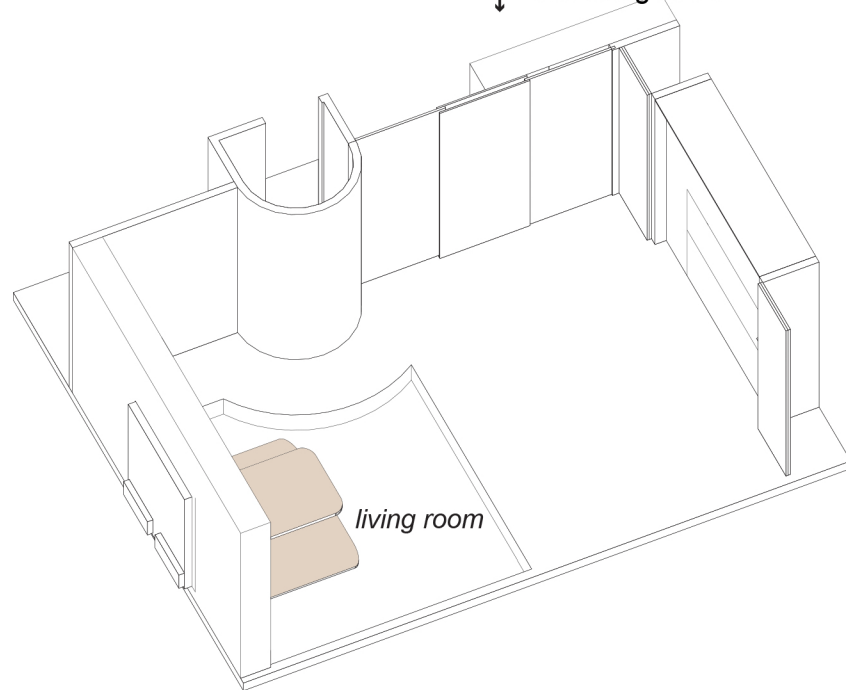
Dual attribution of ONE space
with flexibility of furniture



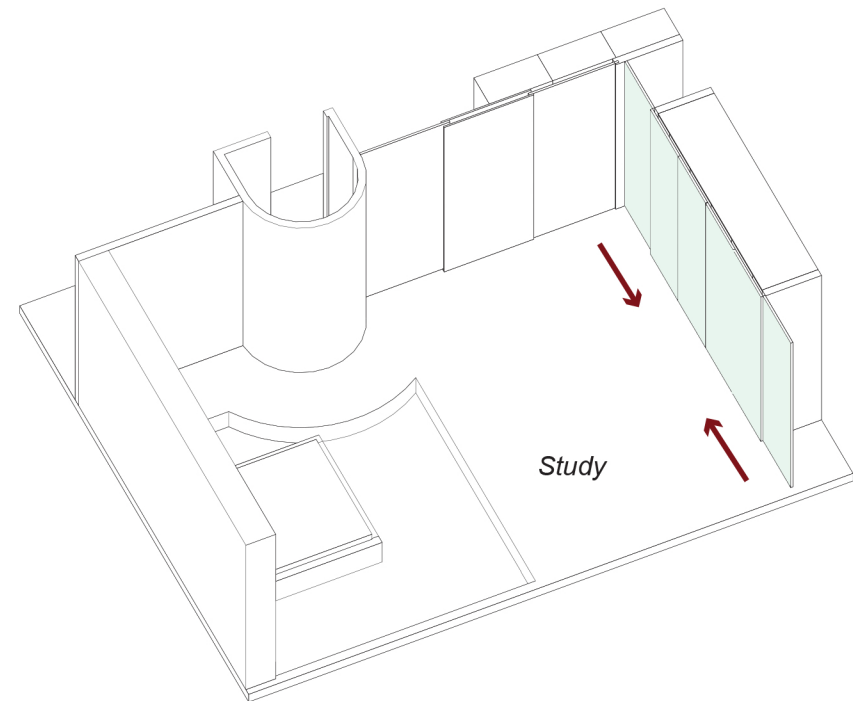
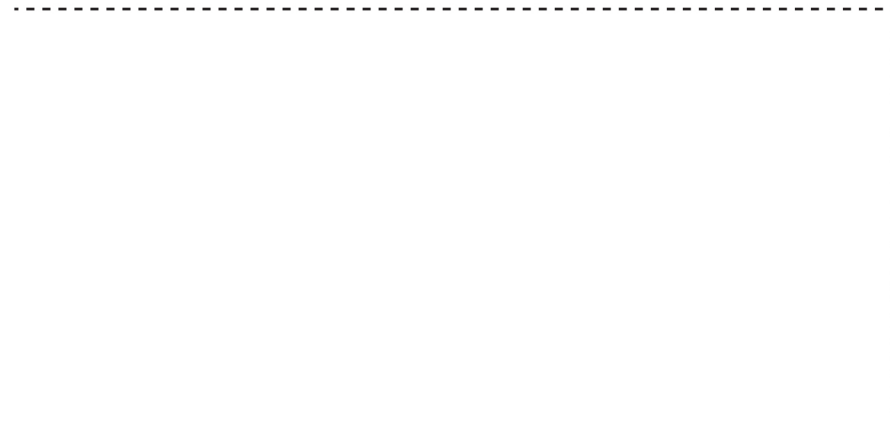
Flip the bed



Flip the table, changed
into living room



Slide the mirror door, changed
into study



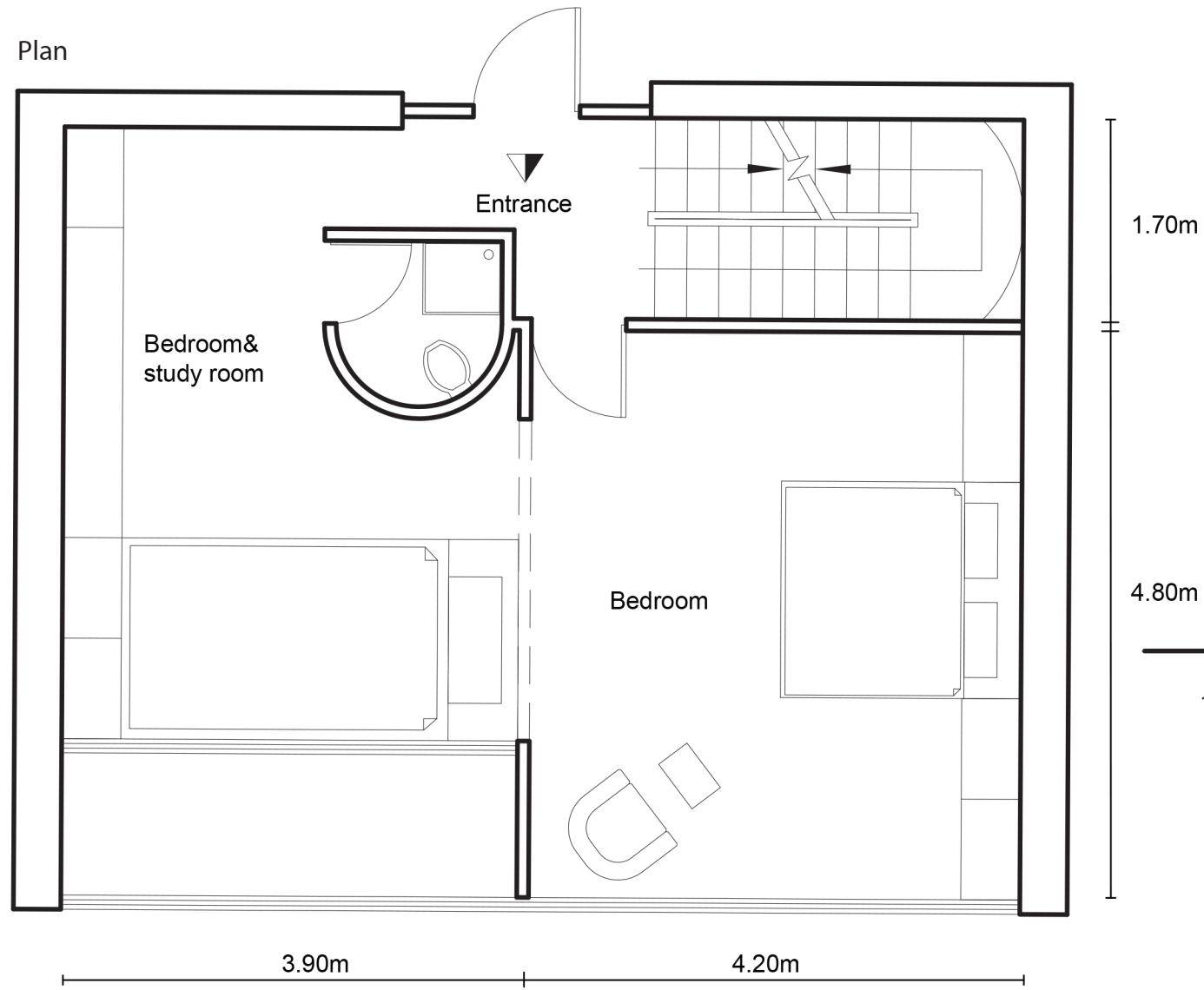
Space arranged in the longitude direction always has dual attribution with flexibility of the furniture. Bedroom changed into living room, dining room changed into study. And those space in the same time form one spacious space facing the curtain wall. Residents can embrace the sky in this apartment.

Duplex Apartment for one-three bedrooms

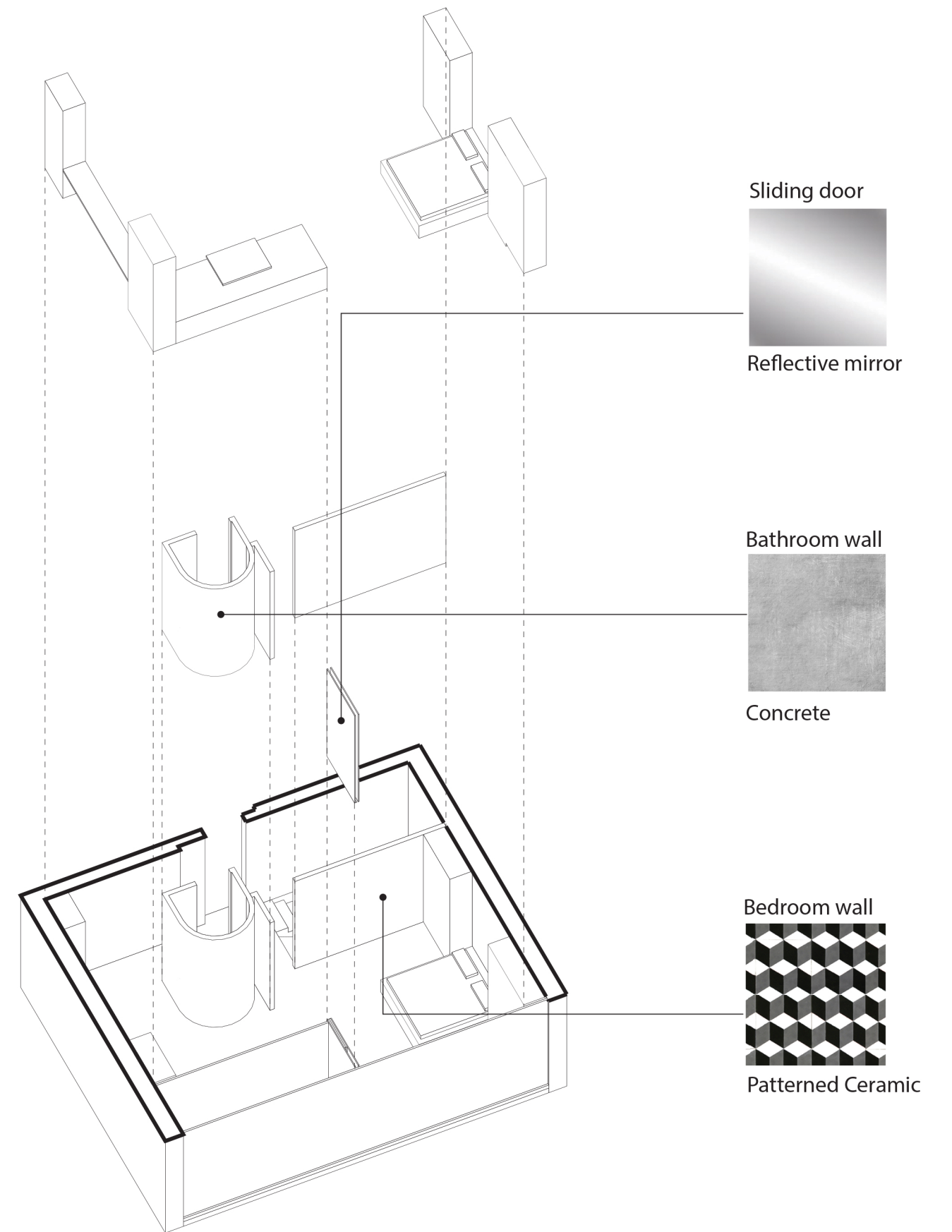
Adding one floor on top



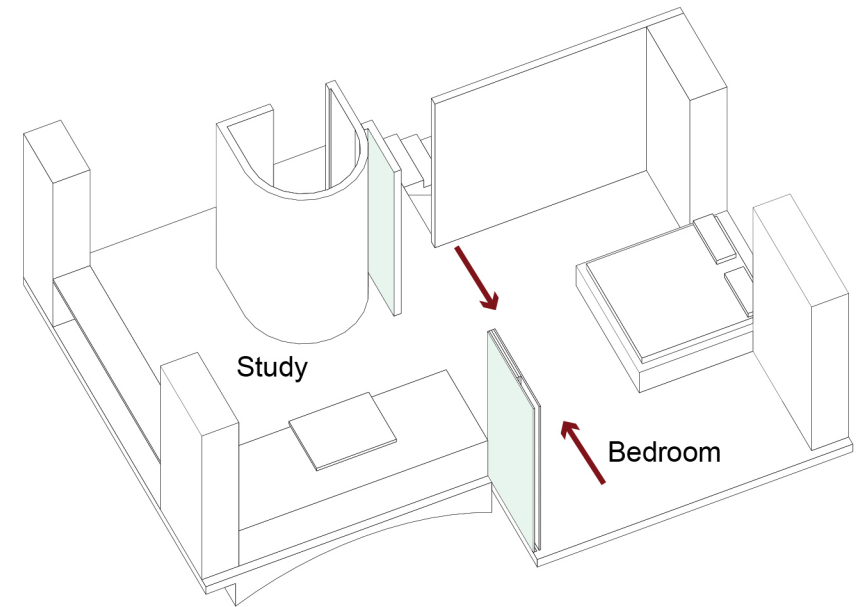
Plan



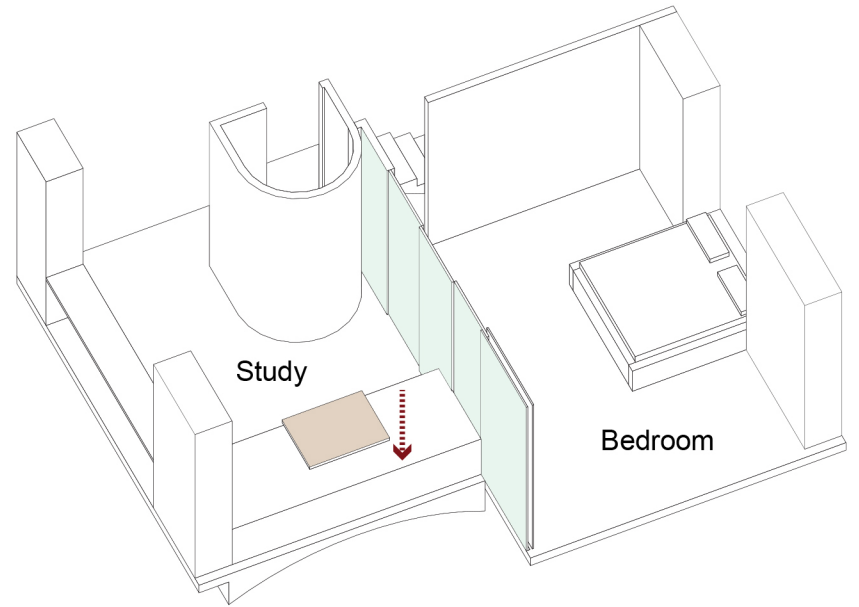
Axometric



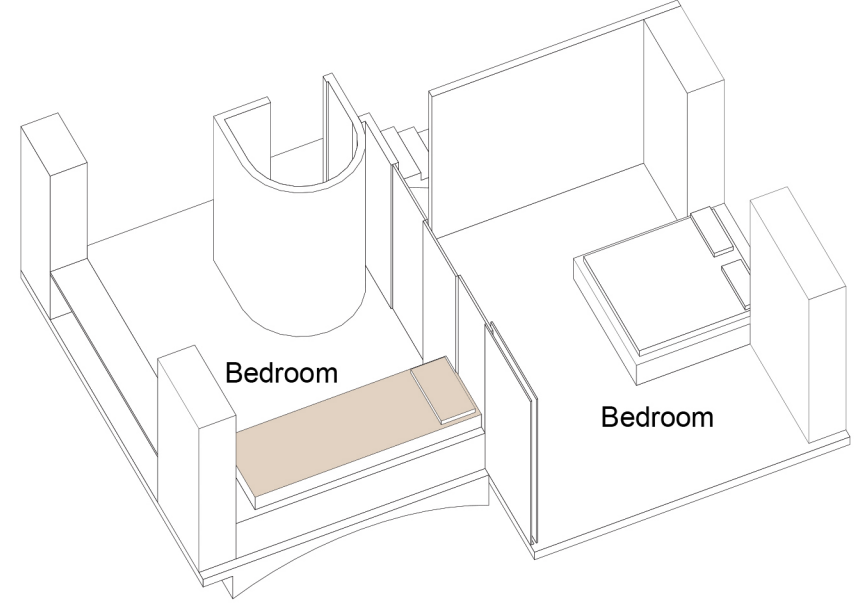
Dual attribution of ONE space
with flexibility of furniture



Slide the mirror door



tea table goes down, and it's changed into a bed



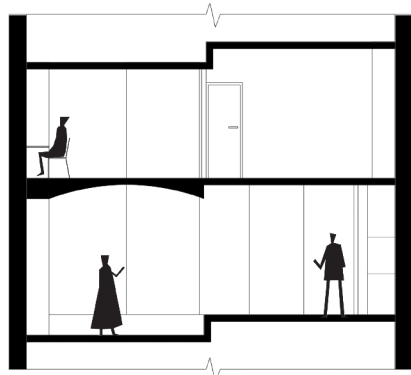
Study& bedroom

Bedroom

Livingroom& bedroom

Kitchen

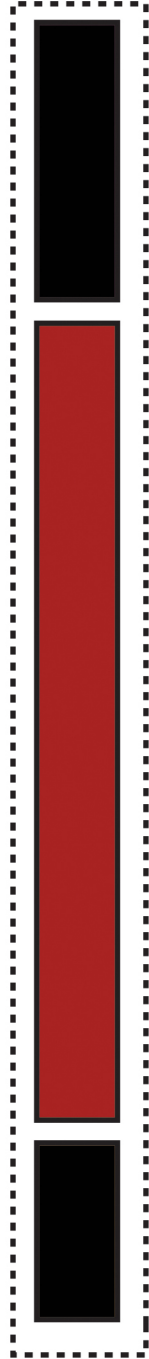
Duplex apartment section 1-1



You can see from the longitude section 1-1 of the duplex apartment that the changeable rooms are always merging with interchangeable rooms. They can form into quite spacious bigger room facing the outside. In this bigger room, sunlight cast freely on the interior rough wall, leaving traces.

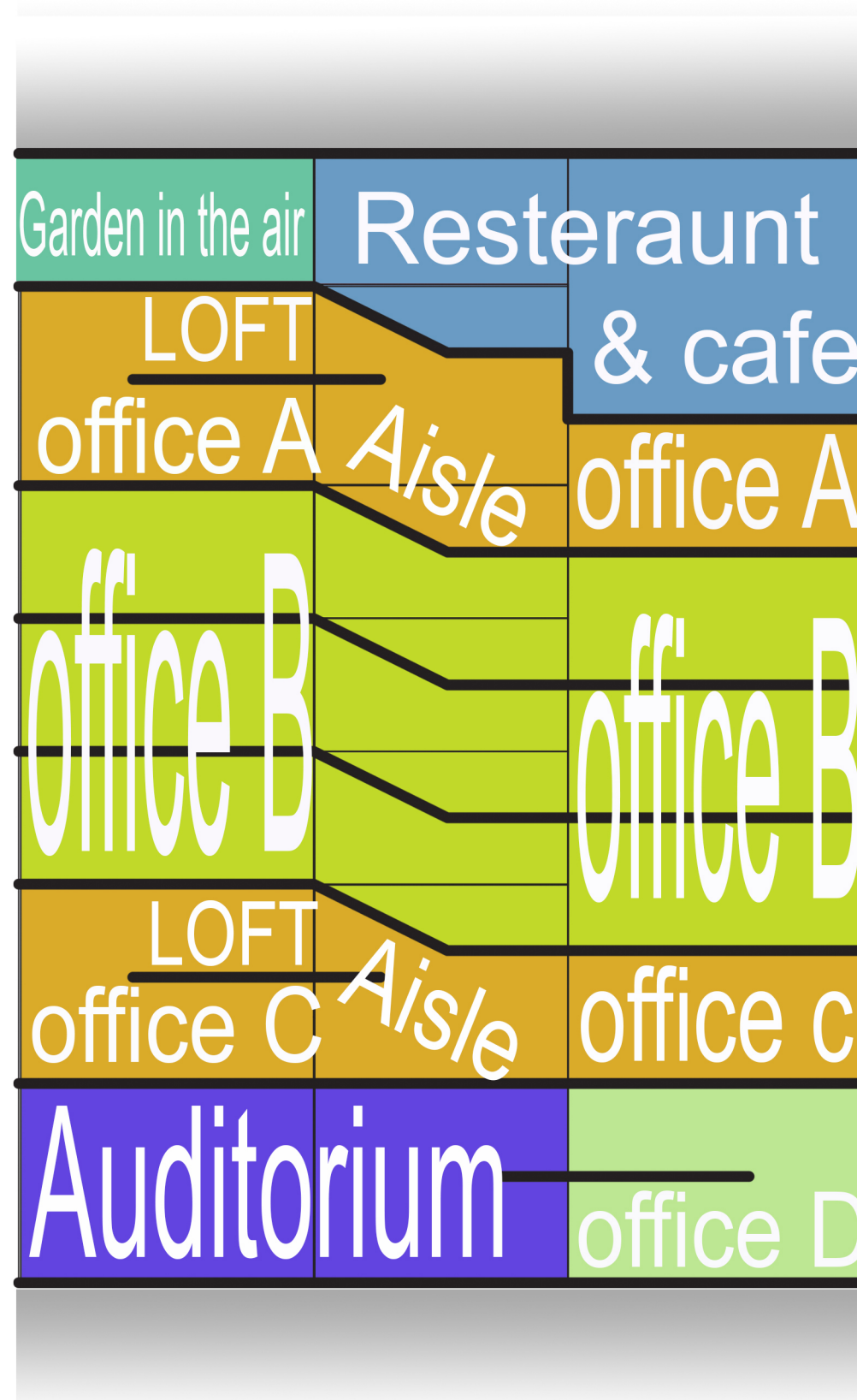
You can stand there and enjoying the exciting feeling of embracing the whole Macau.

Perspective section 1-1

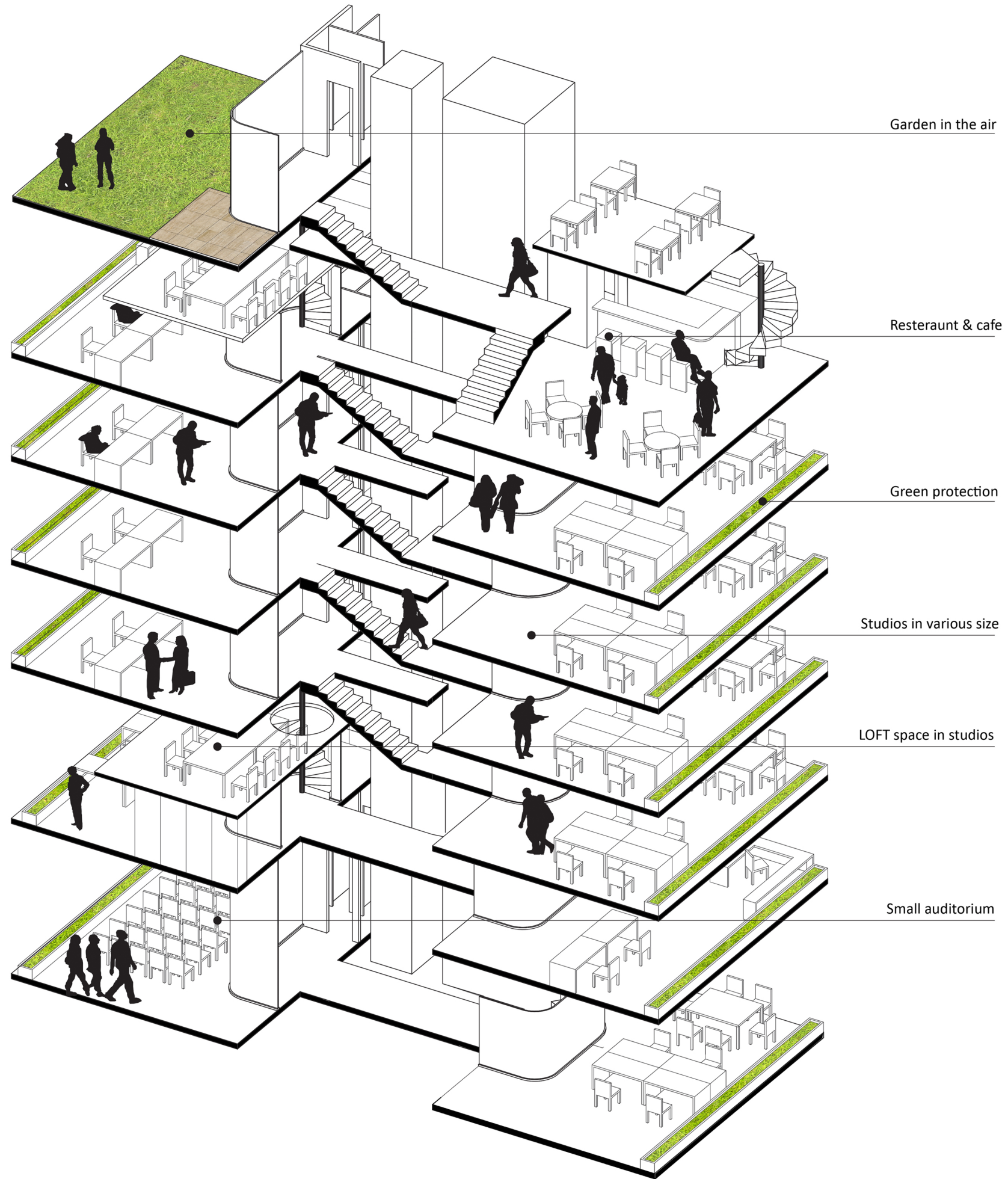


studio group units

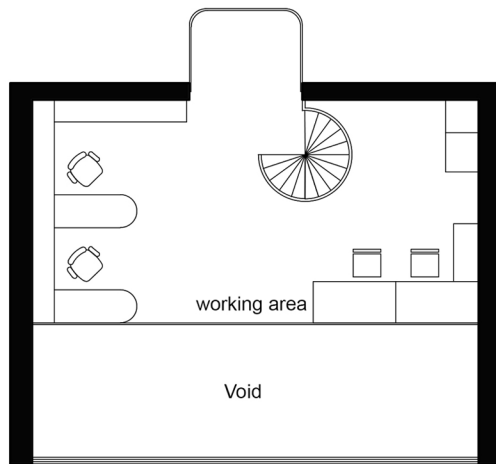
Program organization for the studio unit



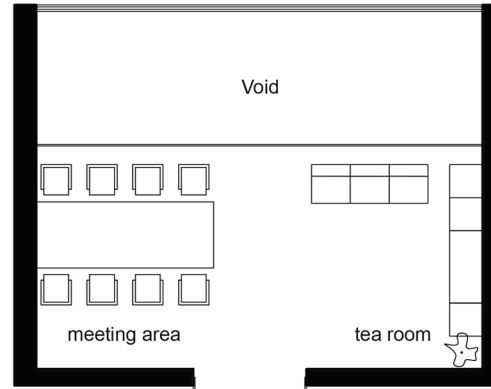
AXONOMETRIC FOR STUDIO UNIT



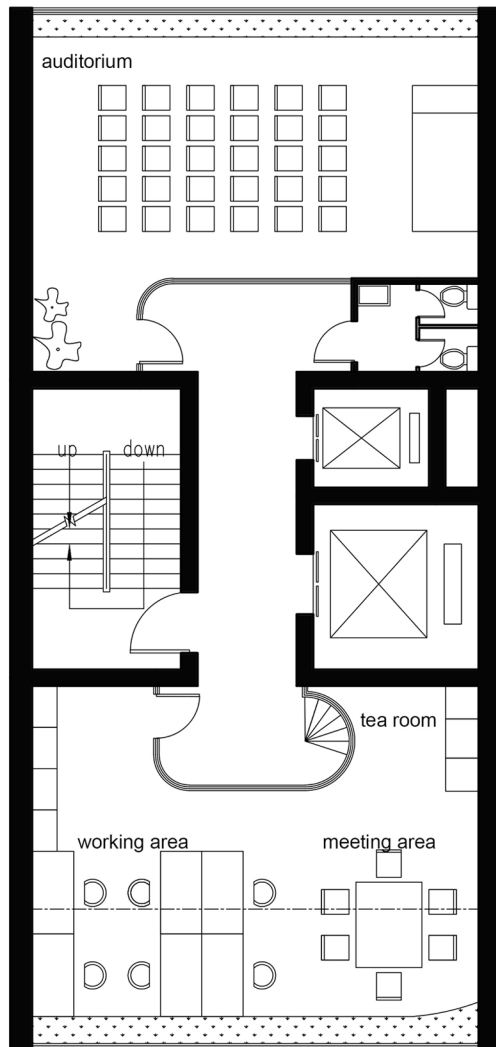
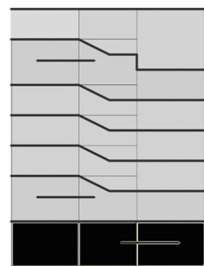
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Loft plan

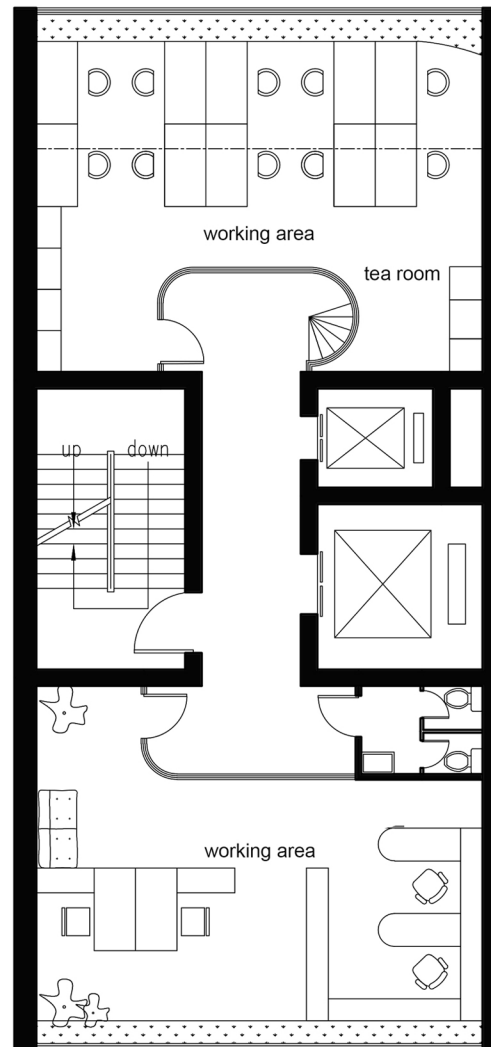
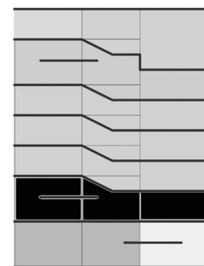


Loft plan

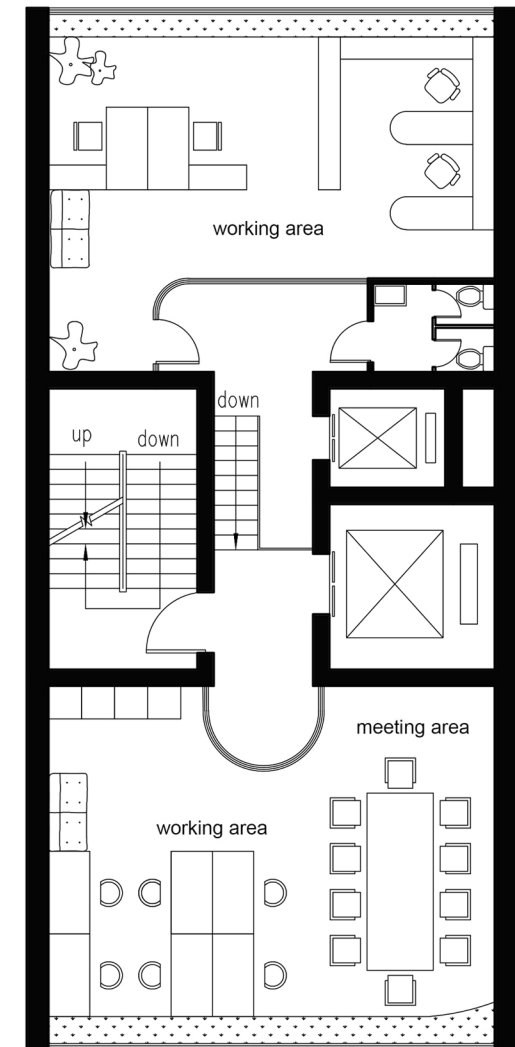
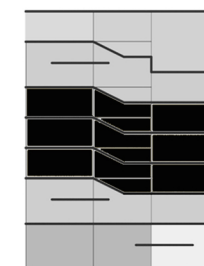


First floor plan

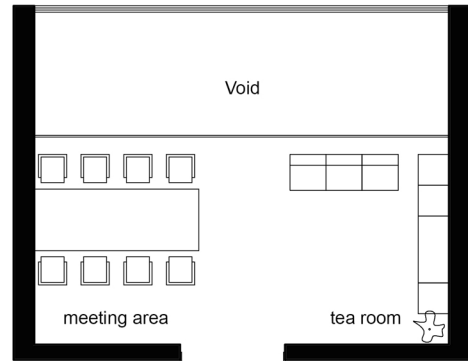
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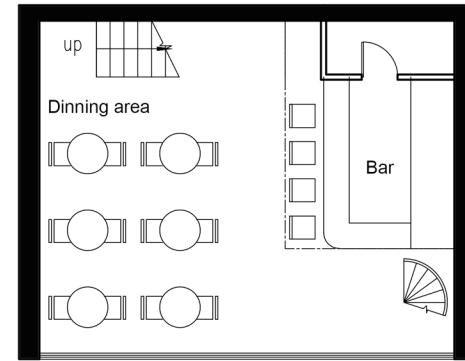
Second floor plan



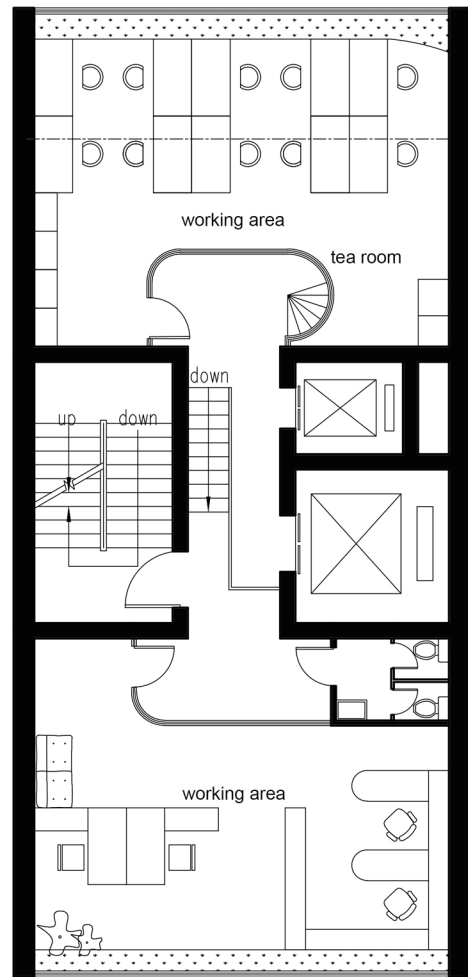
Third-fifth floor plan



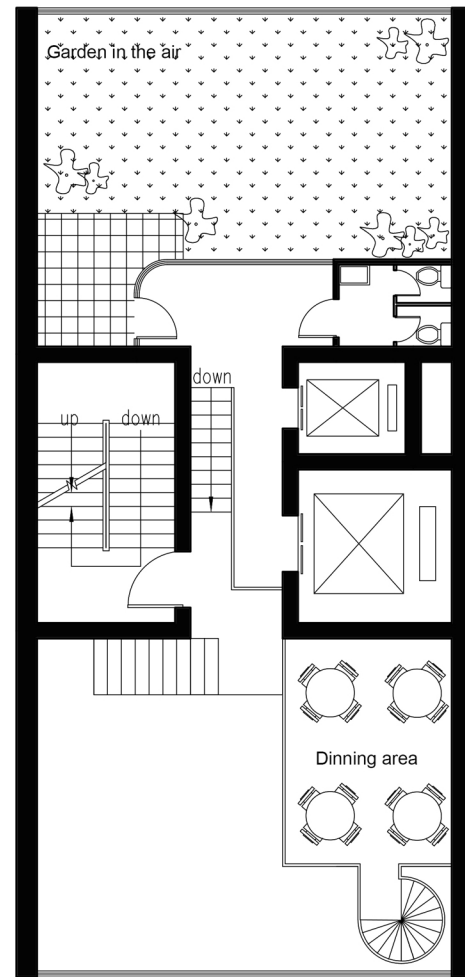
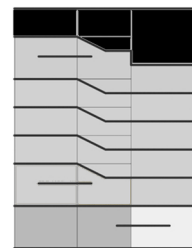
Loft plan



Under floor plan

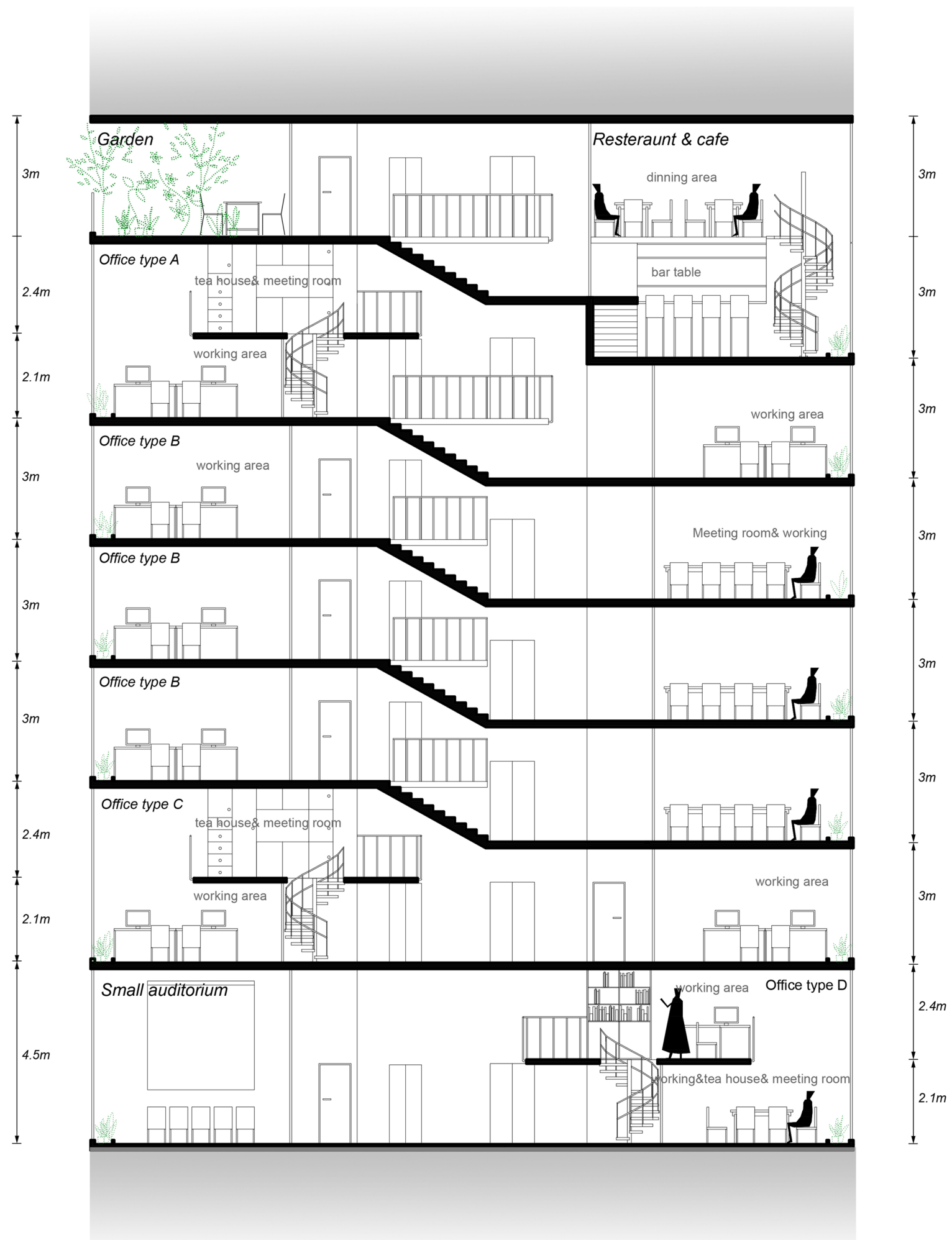


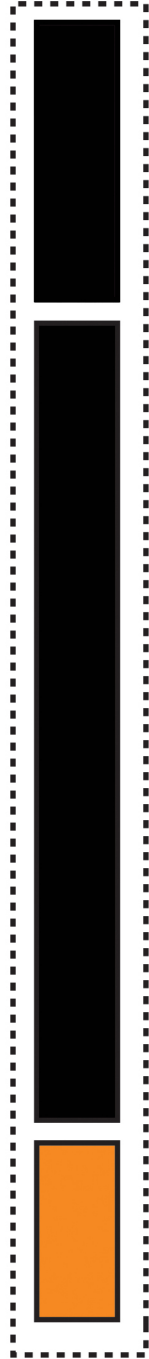
Sixth floor plan



Seventh floor plan

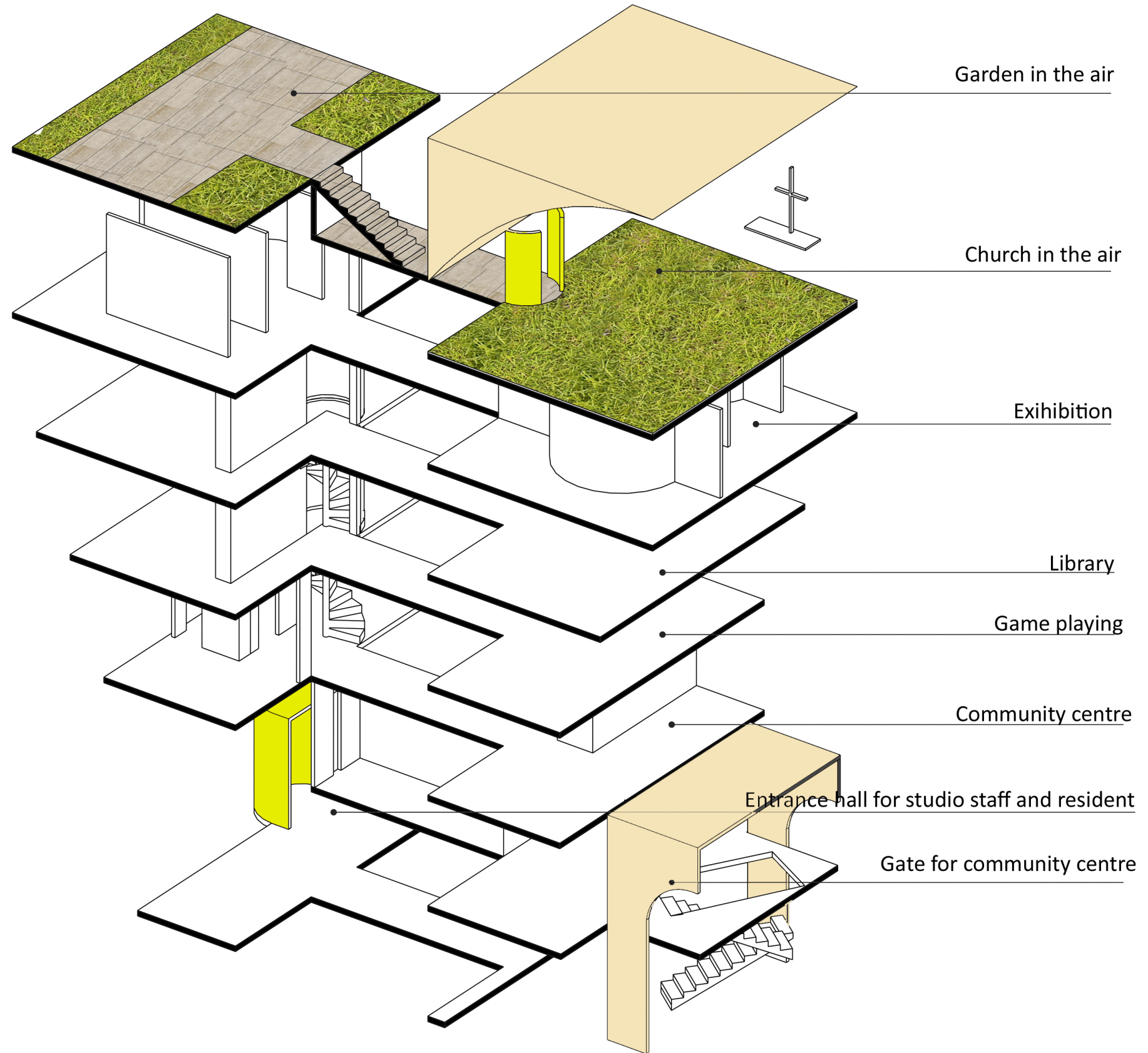
SECTION 1-1 FOR STUDIO UNIT



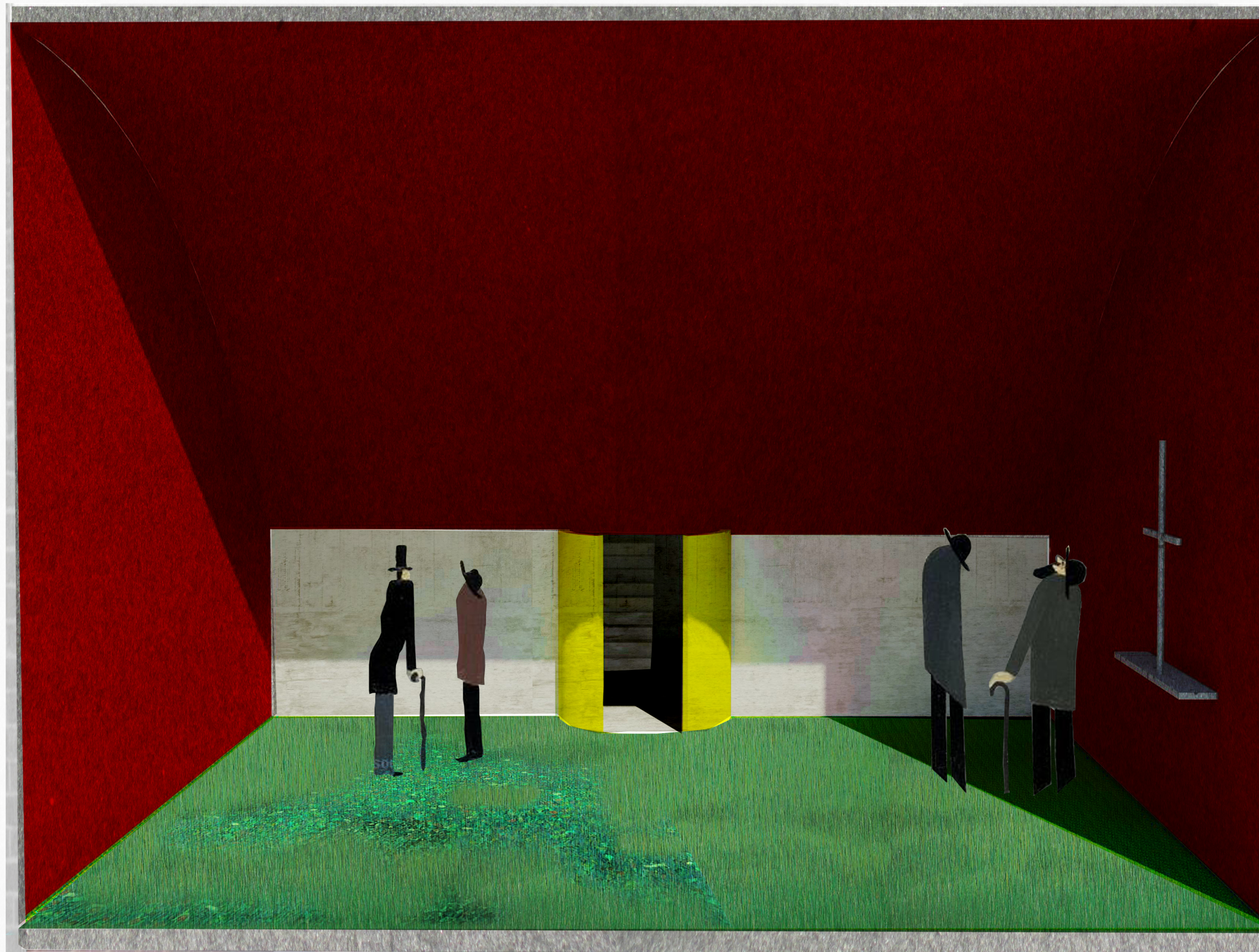


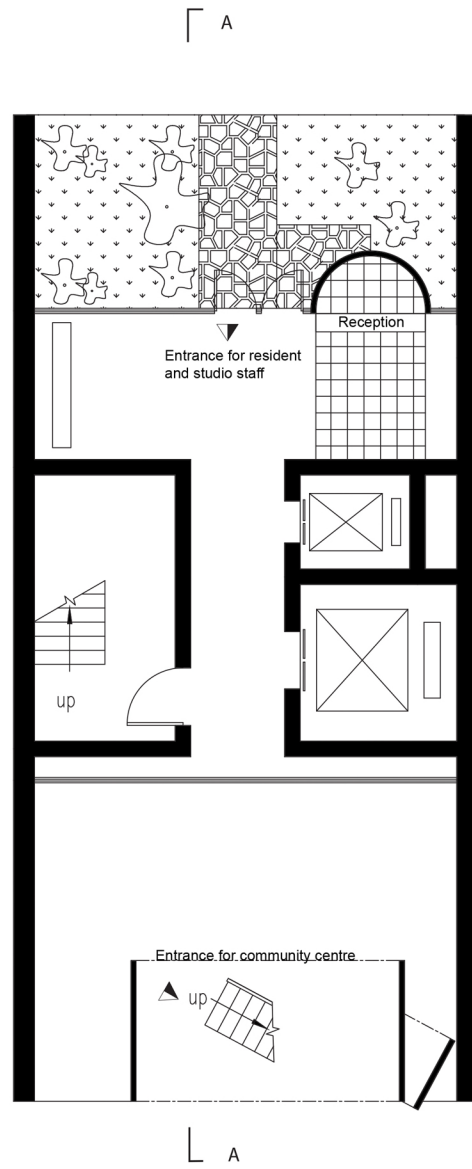
services for community unit



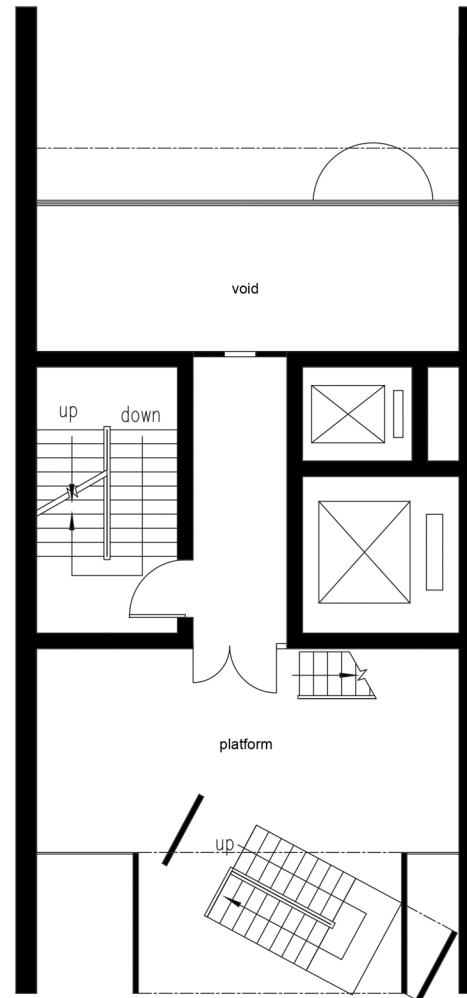


Church in the air

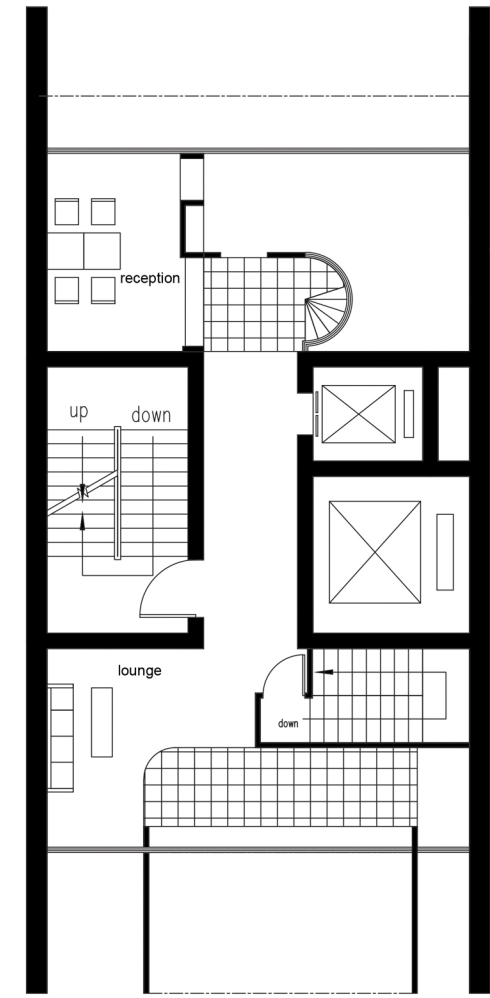




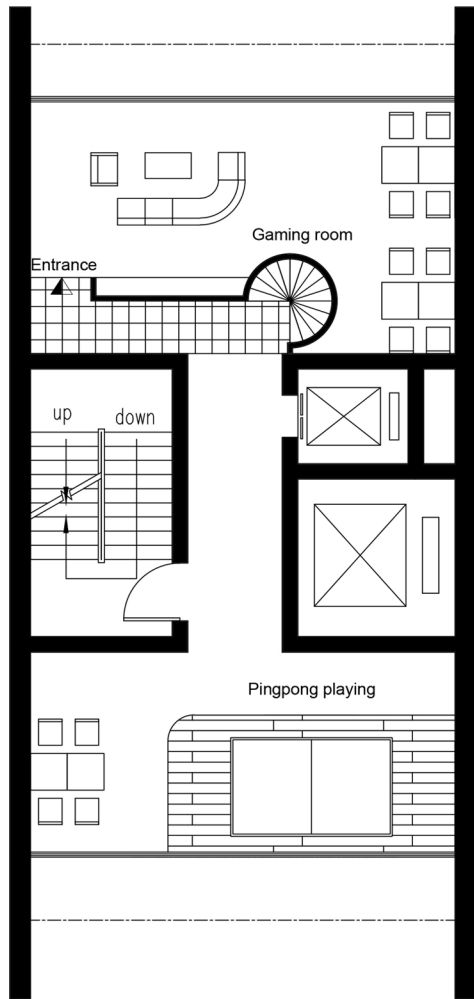
Ground floor plan



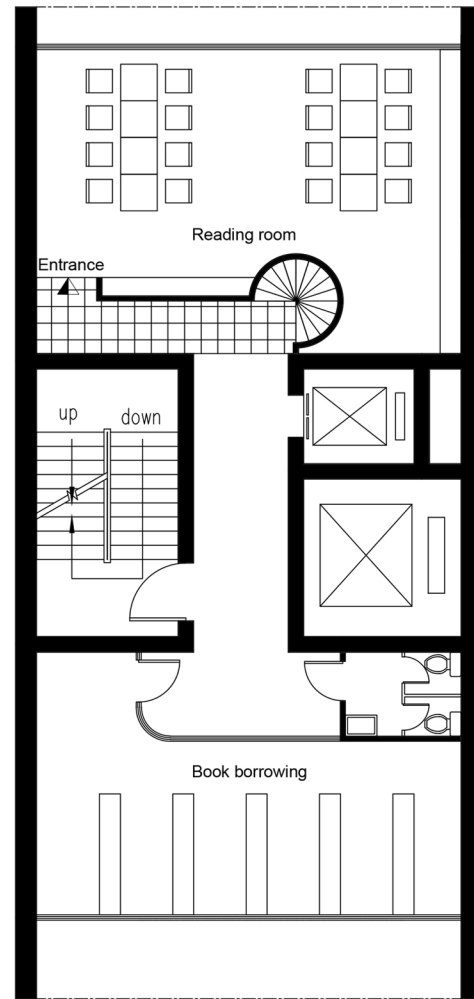
First floor plan



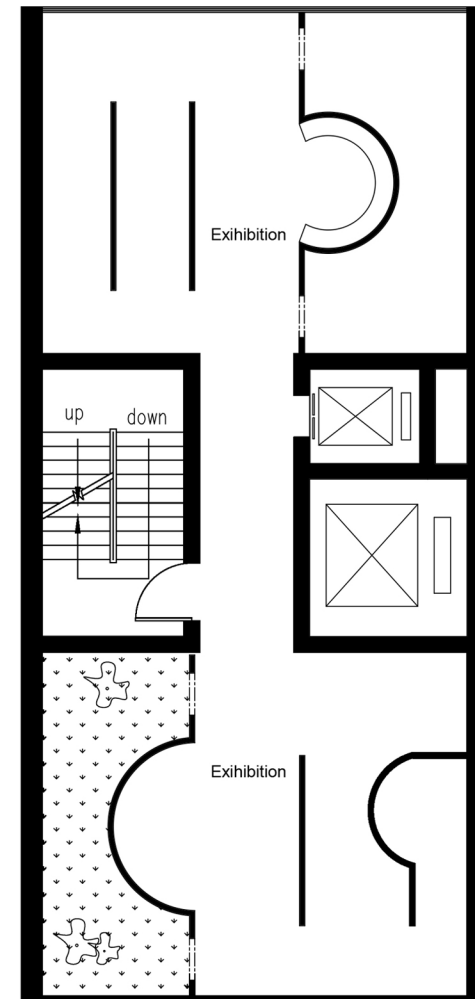
Second floor plan



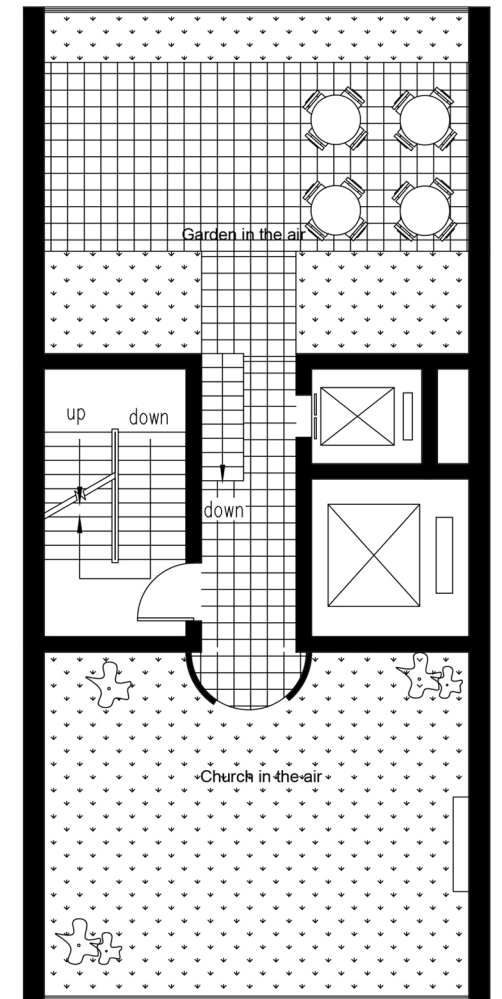
Third floor plan



Forth floor plan



Fifth floor plan



Sixth floor plan