

RE-PUBLIC CITY

A strategic planning of public space for local people in the context of globalization
in Shanghai Lujiazui Finance & Trade Zone

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Mentorship:

First mentor:

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Second mentor:

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TU Delft
Complex Cities and Environments in Transformation
**Complex
Cities** and Environments in Transformation

TUDelft

PUBLIC SPACE

Where ?

SHANGHAI, CHINA

POPULATION (2009)

2,125,000



105 km²

PARIS

12,970,000



622 km²

TOKYO
23 districts

8,490,000



785 km²

NEW YORK

about
10,000,000



about
370 km²

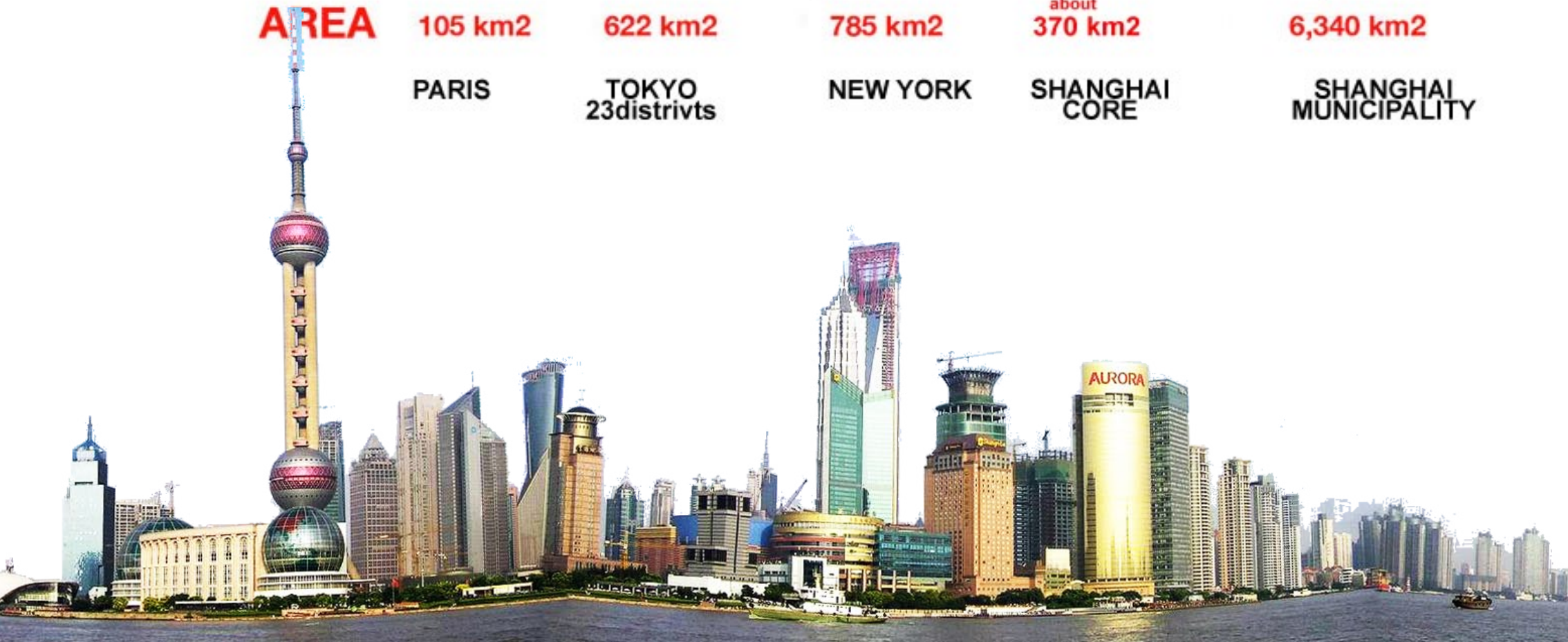
SHANGHAI
CORE

18,000,000



6,340 km²

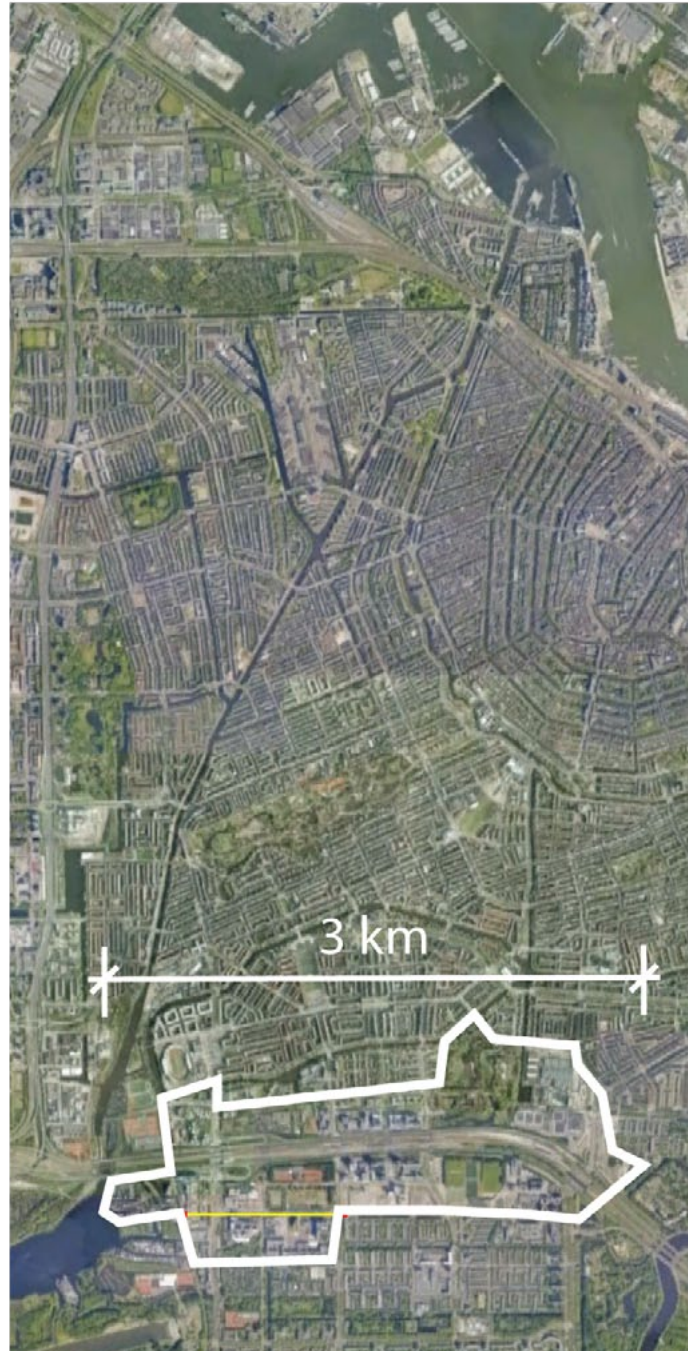
SHANGHAI
MUNICIPALITY



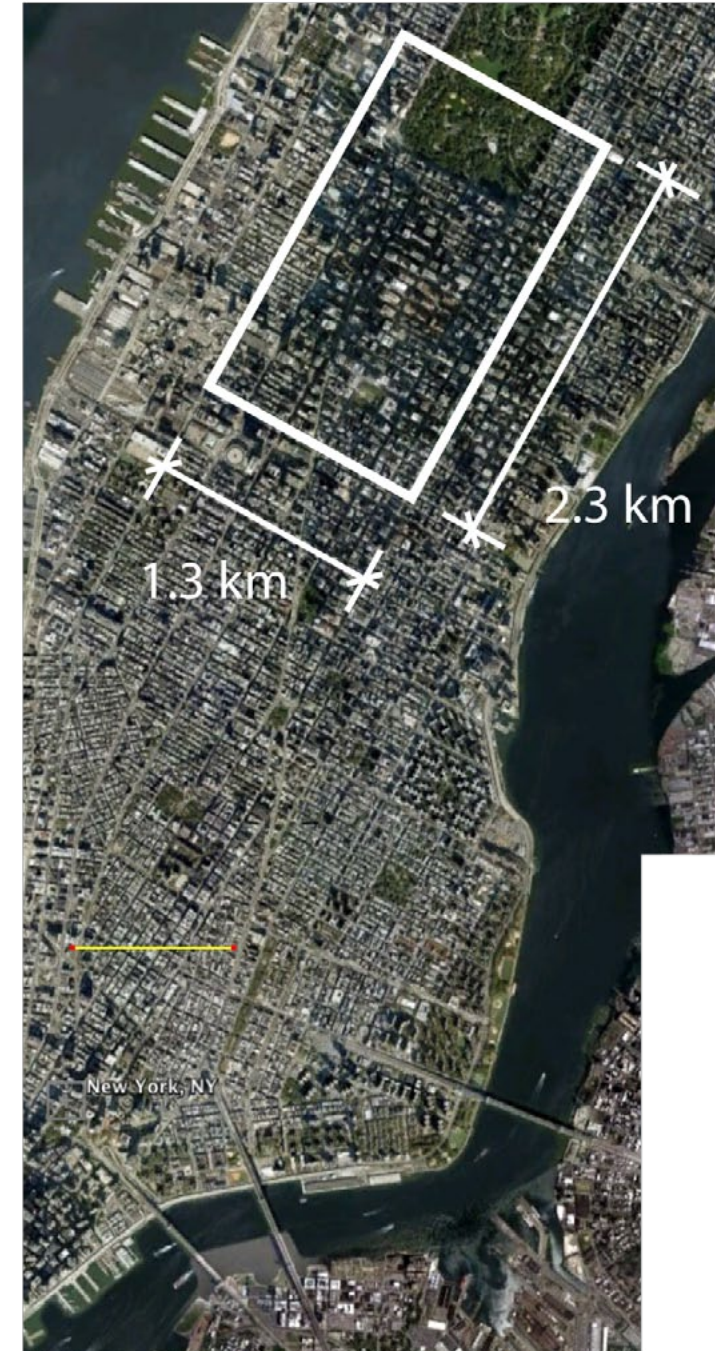
SITE: Shanghai Lujiazui Finance & Trade Zone



Shanghai Lujiazui
180 hectares
FAR: 3
(2009)

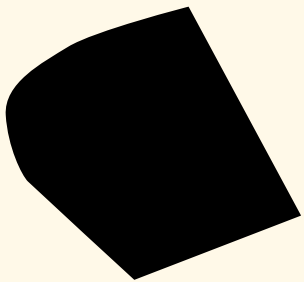


Amsterdam Zuidas
270 hectares
FAR: -



Manhattan Midtown
300 hectares
FAR: 12-18

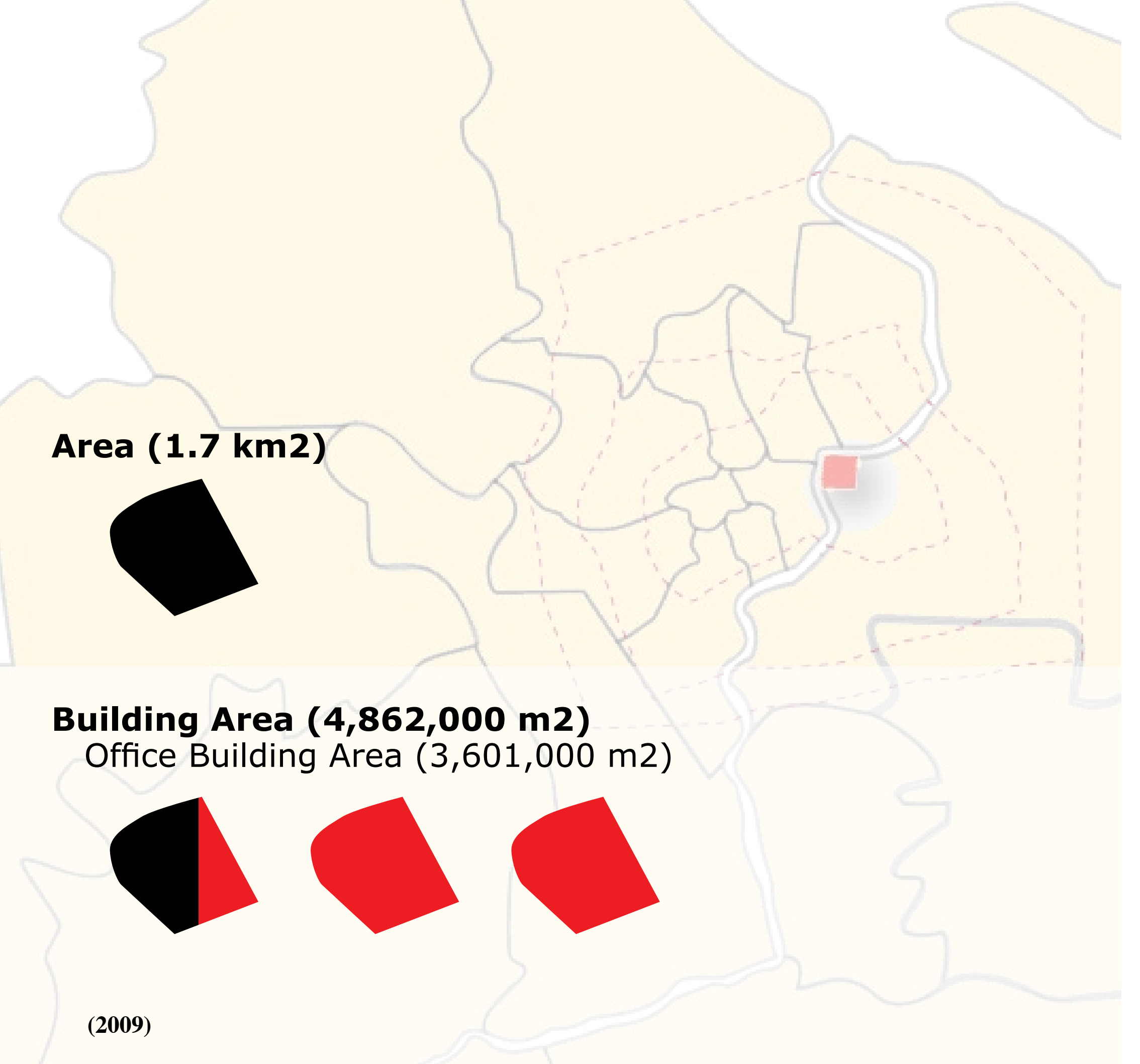
Area (1.7 km²)



Building Area (4,862,000 m²)
Office Building Area (3,601,000 m²)



(2009)



Problem?

- 1860 ports and factories built by colonists
- 1950s residential compound for factory workers



SHANGHAI'S COLONIAL GROWTH (source: Taeke de Jong)

● 1860

● 1950s

● **1990 be established as the only national developing zone**

● 2005



1993



2005

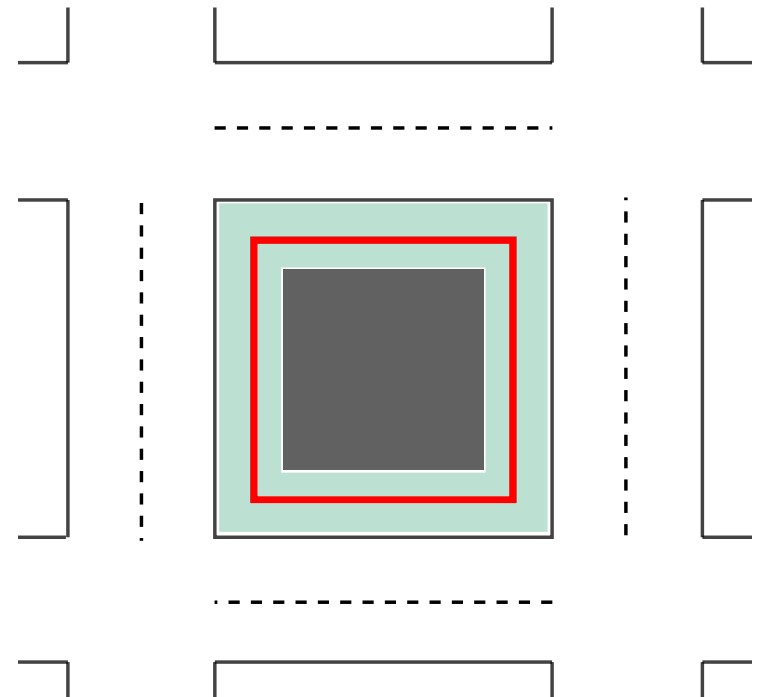
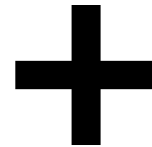
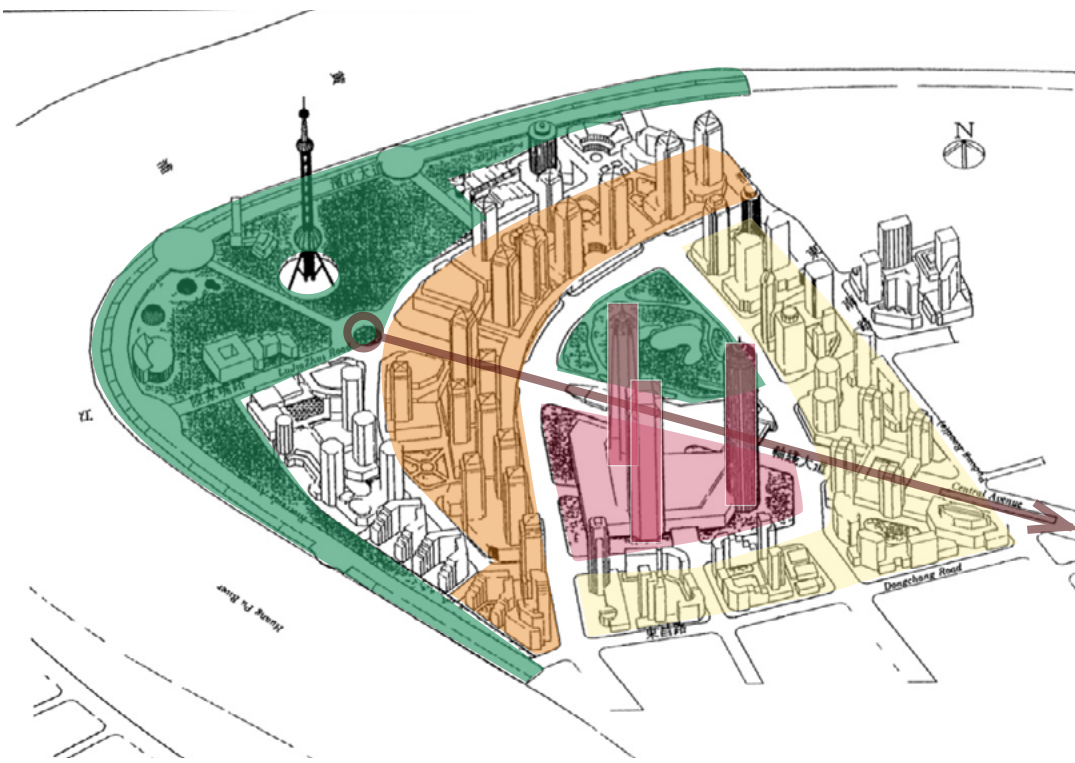
1860

1950s

1990

1992 international urban design competition

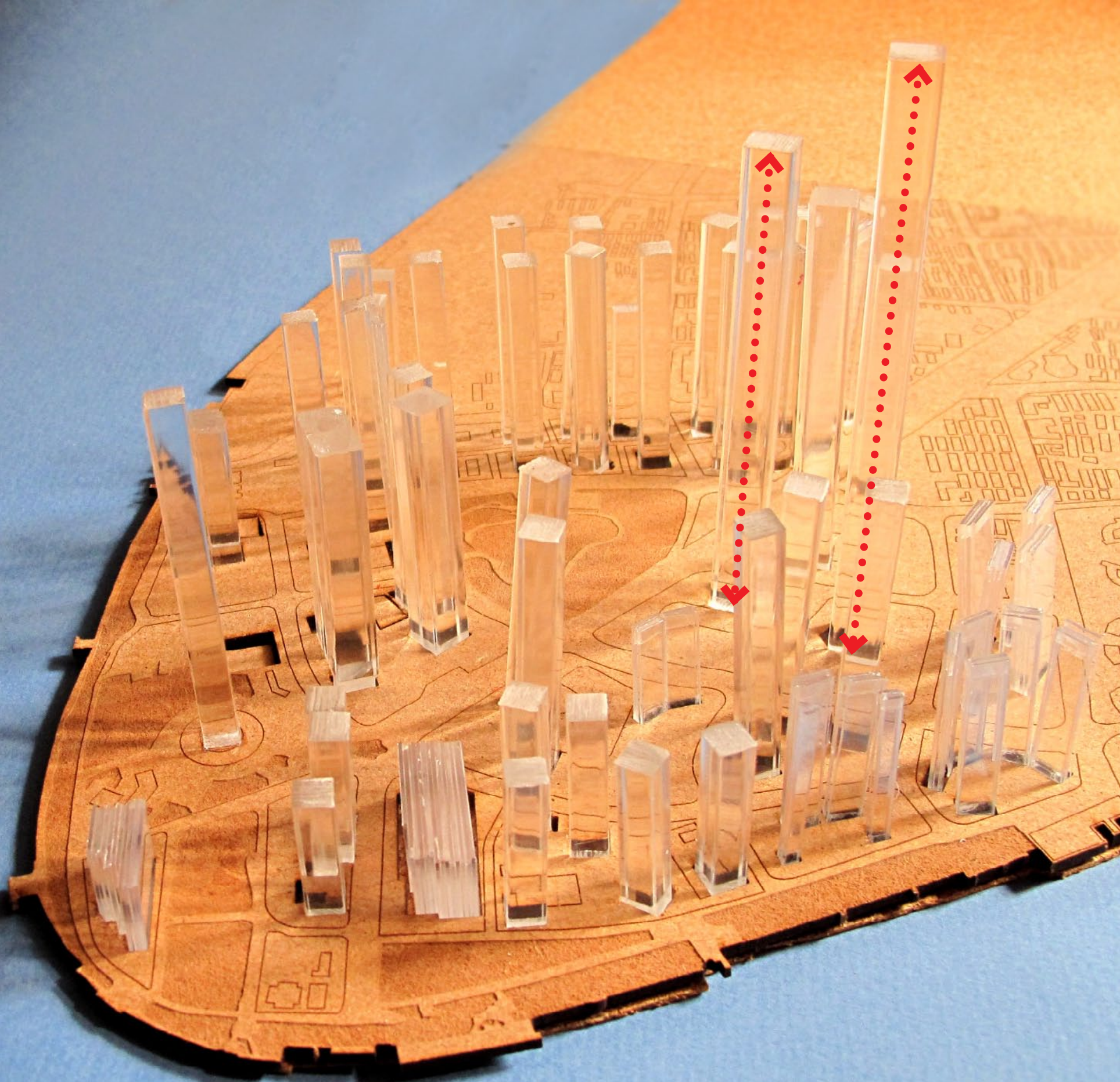
2005



SPATIAL CONCEPT OF THE FINAL DESIGN

(Source: Wang and Xia, 2001)

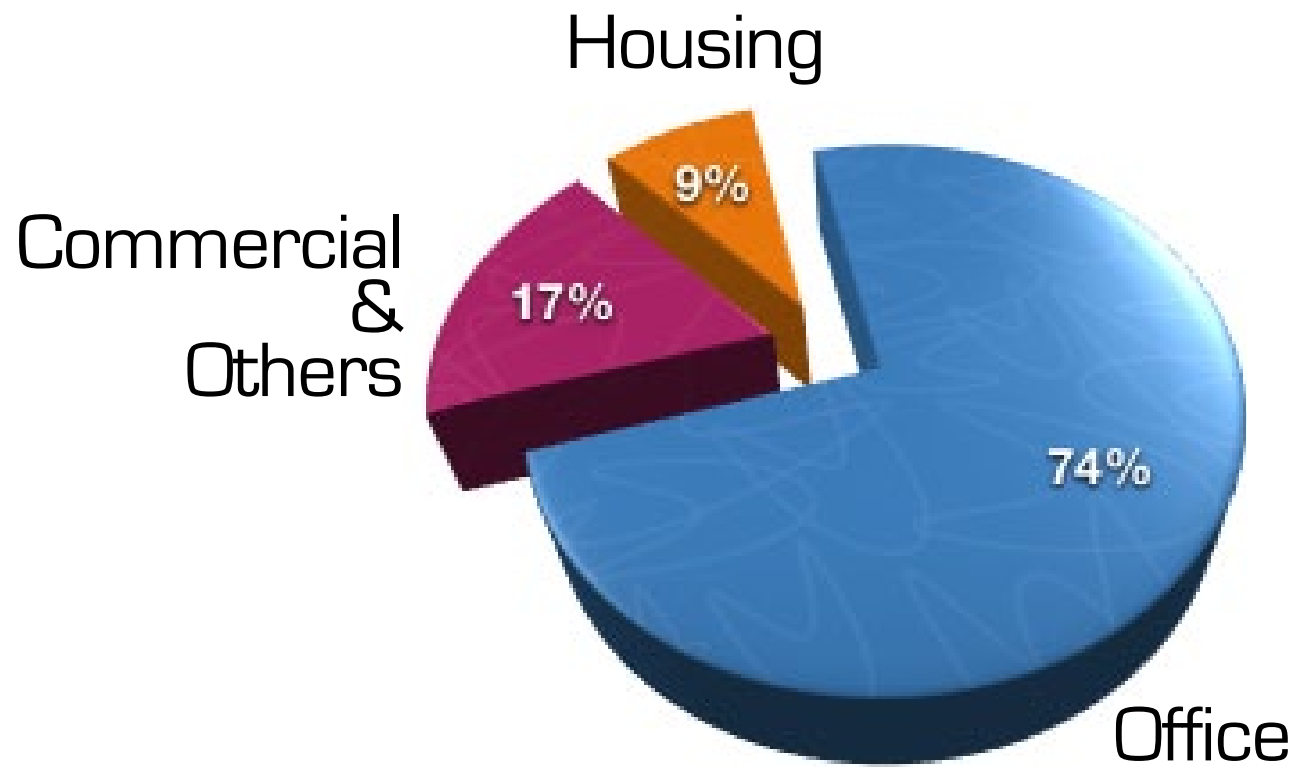
PPP DEVELOPMENT MODEL



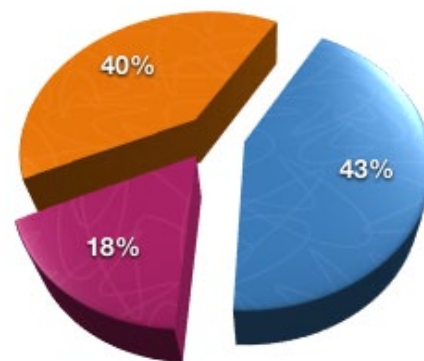


Urban Quality
has been **badly ignored**
by economic interests and
the city's ambitions.

MONOFUNCTIONAL - LIMITED PUBLIC ACTIVITIES



Lujiazui F&T Zone (2009)



Amsterdam Zuidas (2004)



INACCESSIBLE & PRIVATISATION



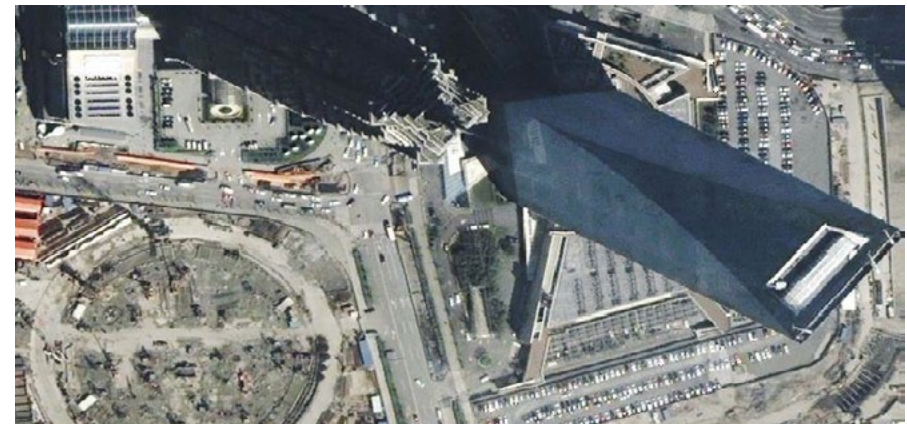
Mobility Priority



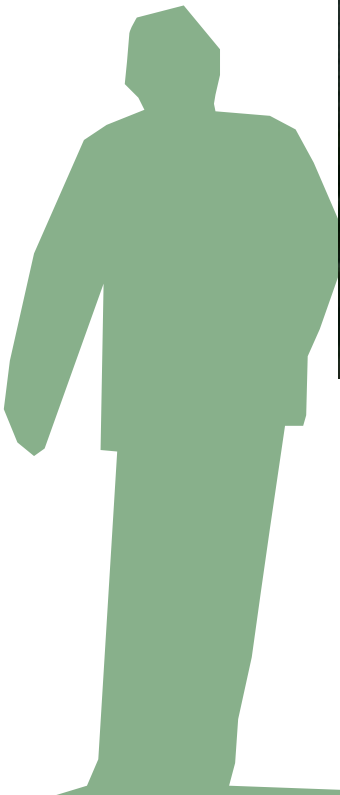
blocked green



Un-human scale



Parking



MAKE
REAL
PUBLIC SPACE

PROMOTE PUDONG

2 Offer a new experience of public life for Shanghai, and bring Pudong back to the city.

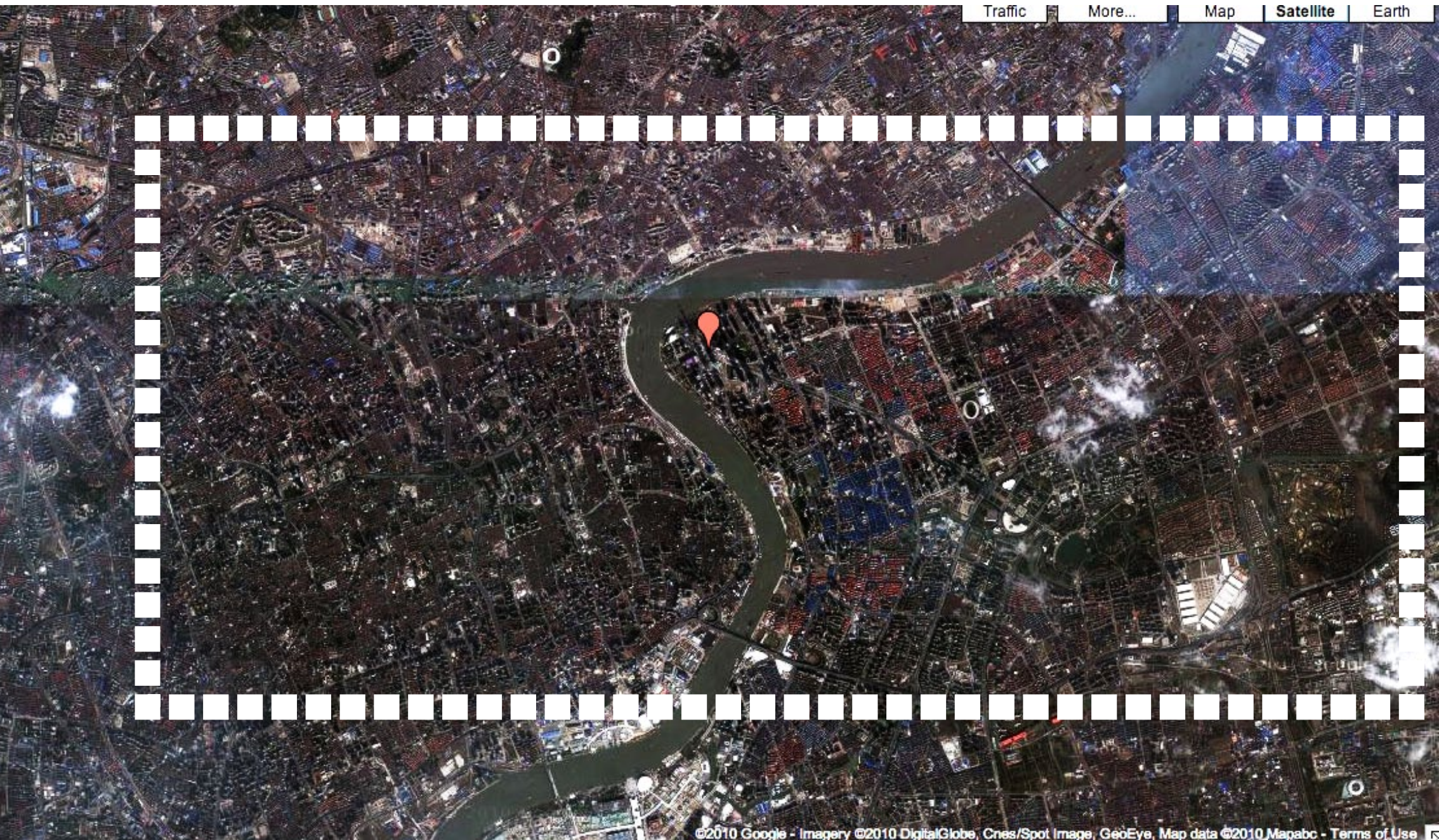
1 Provide accessible, comfortable and sociable public space to local users, and foster their sense of belonging.

BENEFIT LOCAL

Analysis

What “real” public space
ought to be in Lujiazui?

THE CITY OF SHANGHAI



PROMOTE PUDONG

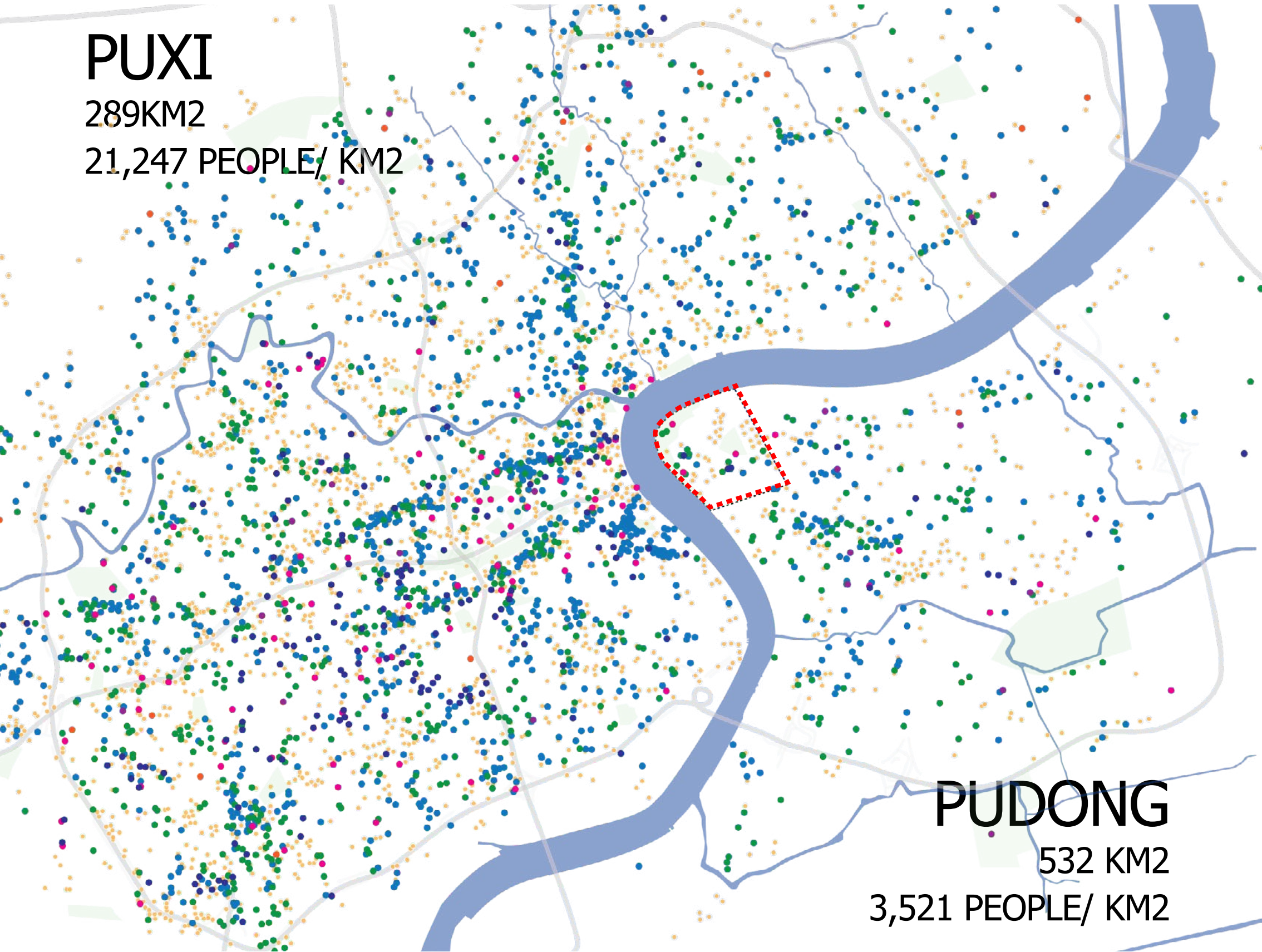
1. NEW IDENTITY

Shopping center + sport center + office + art center + museum + library

PUXI

289KM²

21,247 PEOPLE/ KM²



PUDONG

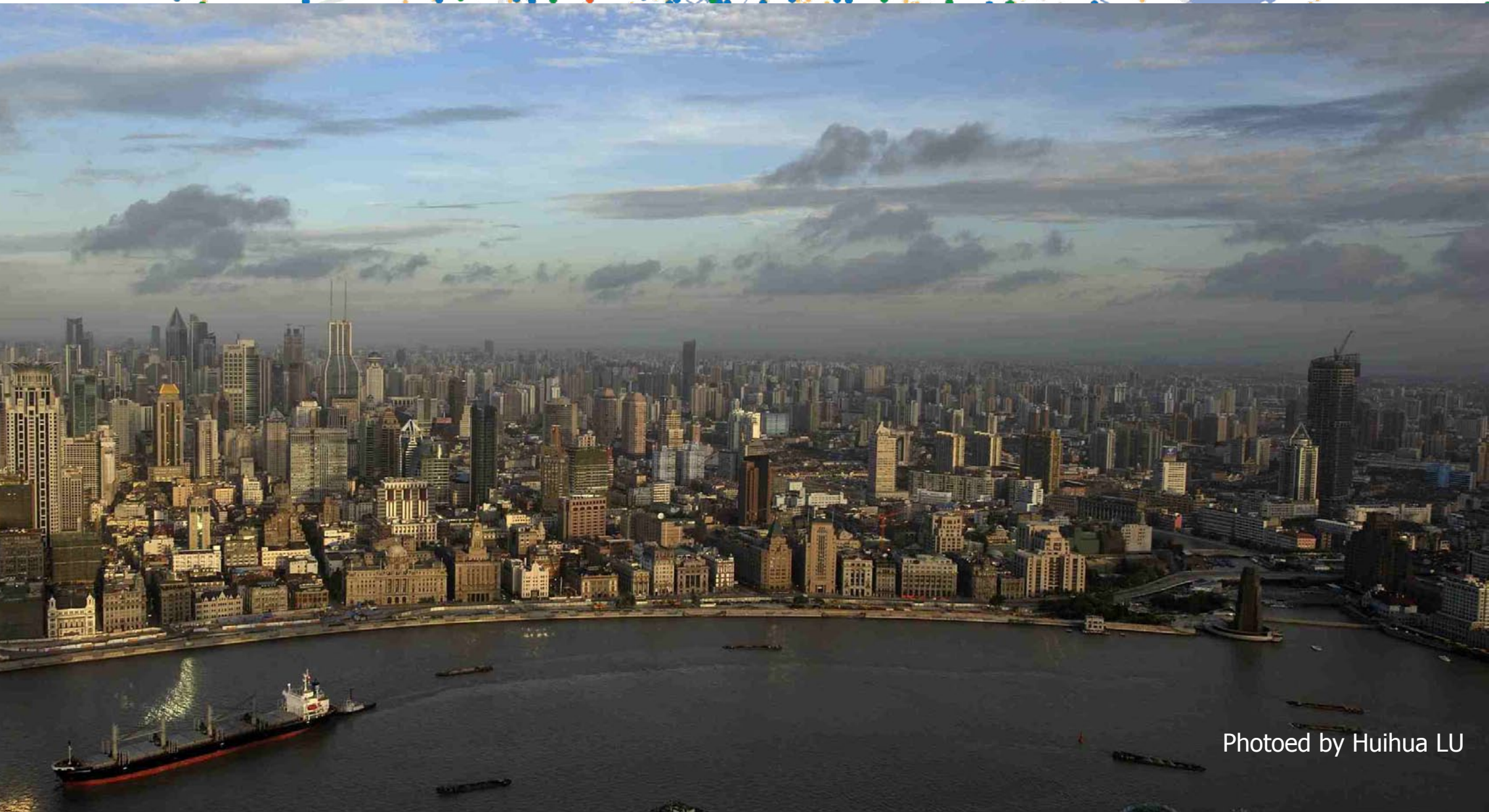
532 KM²

3,521 PEOPLE/ KM²

PROMOTE PUDONG



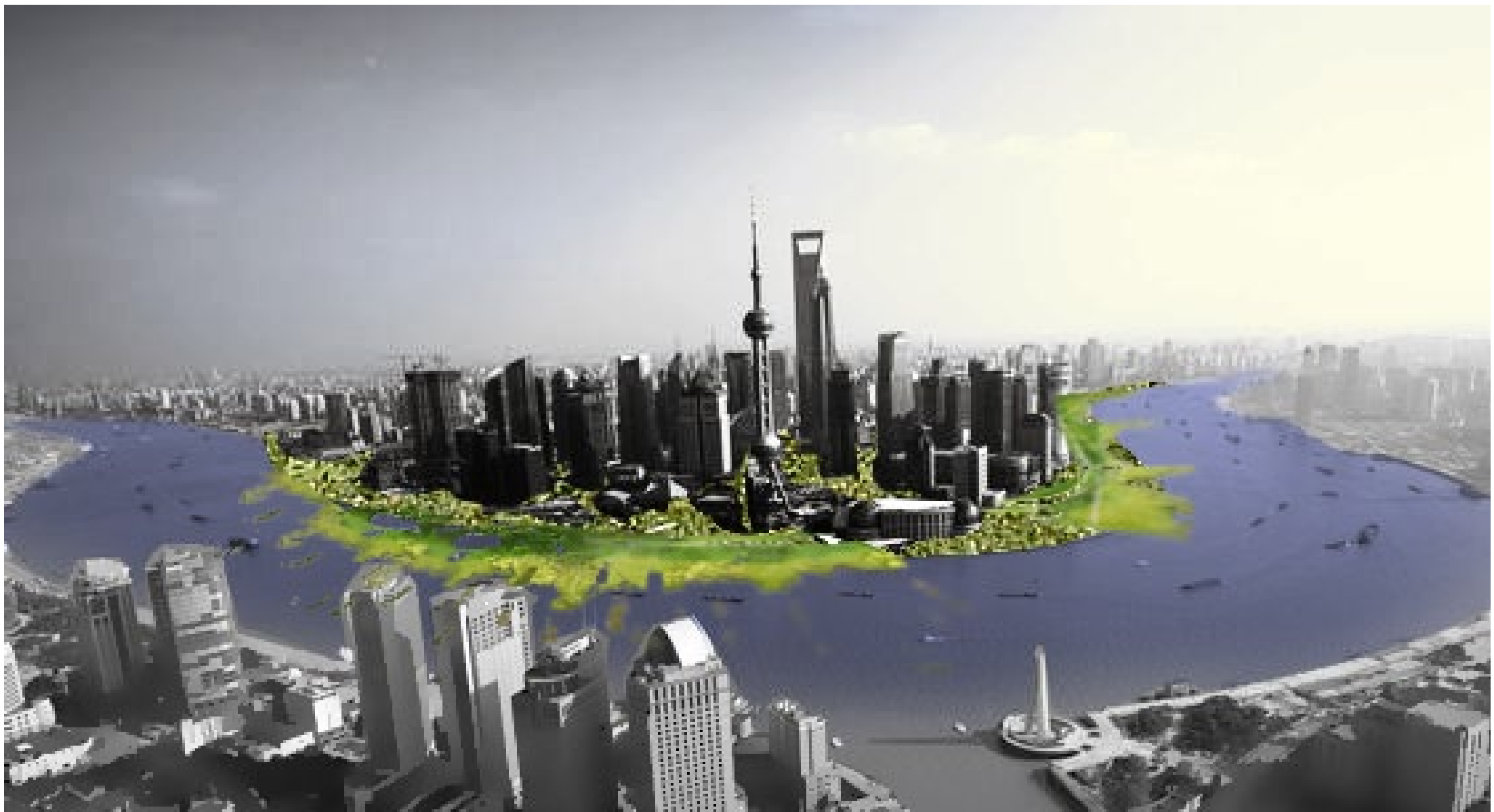
Crowded Puxi



Photoed by Huihua LU

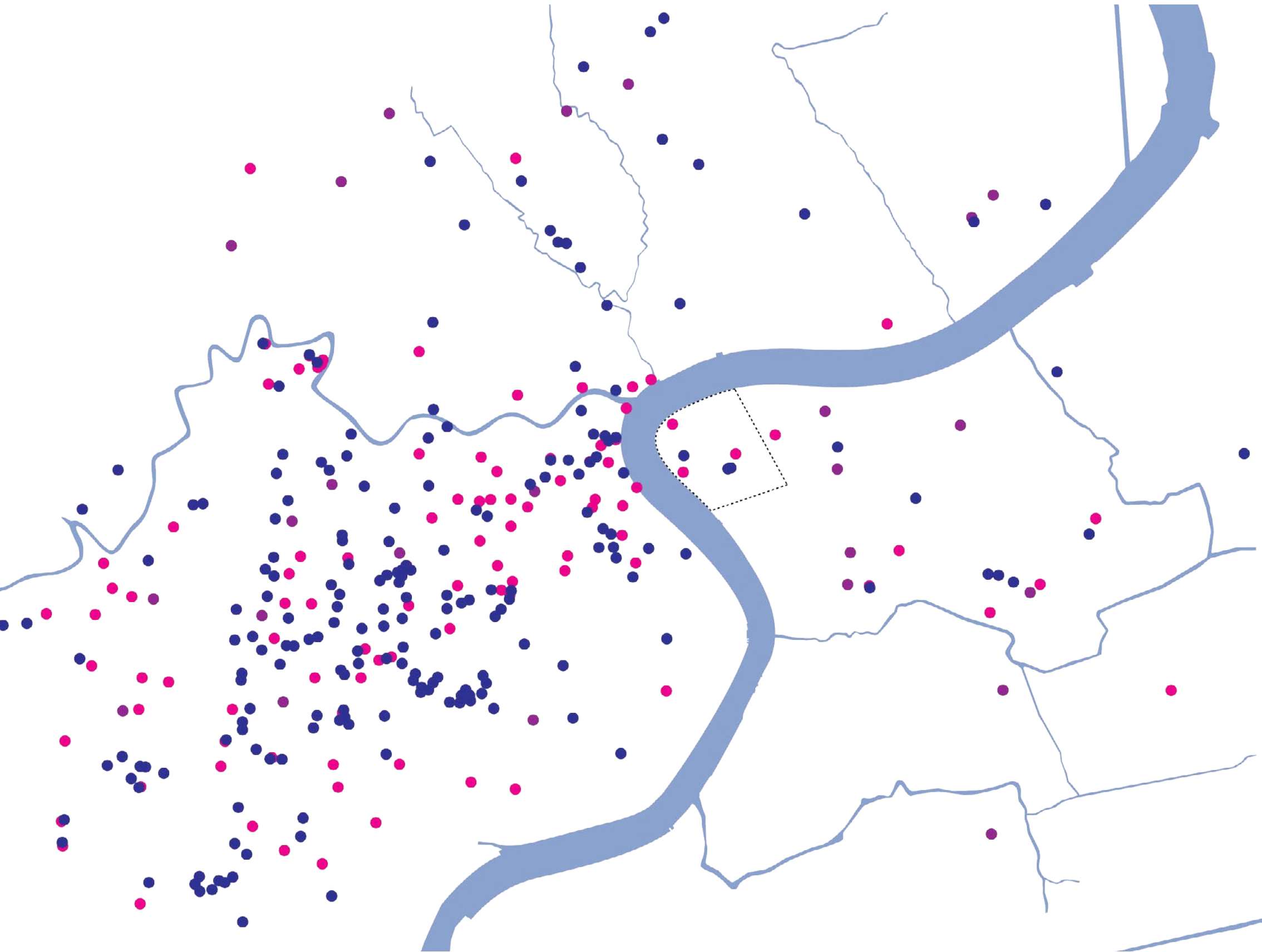
PROMOTE PUDONG

Open Pudong



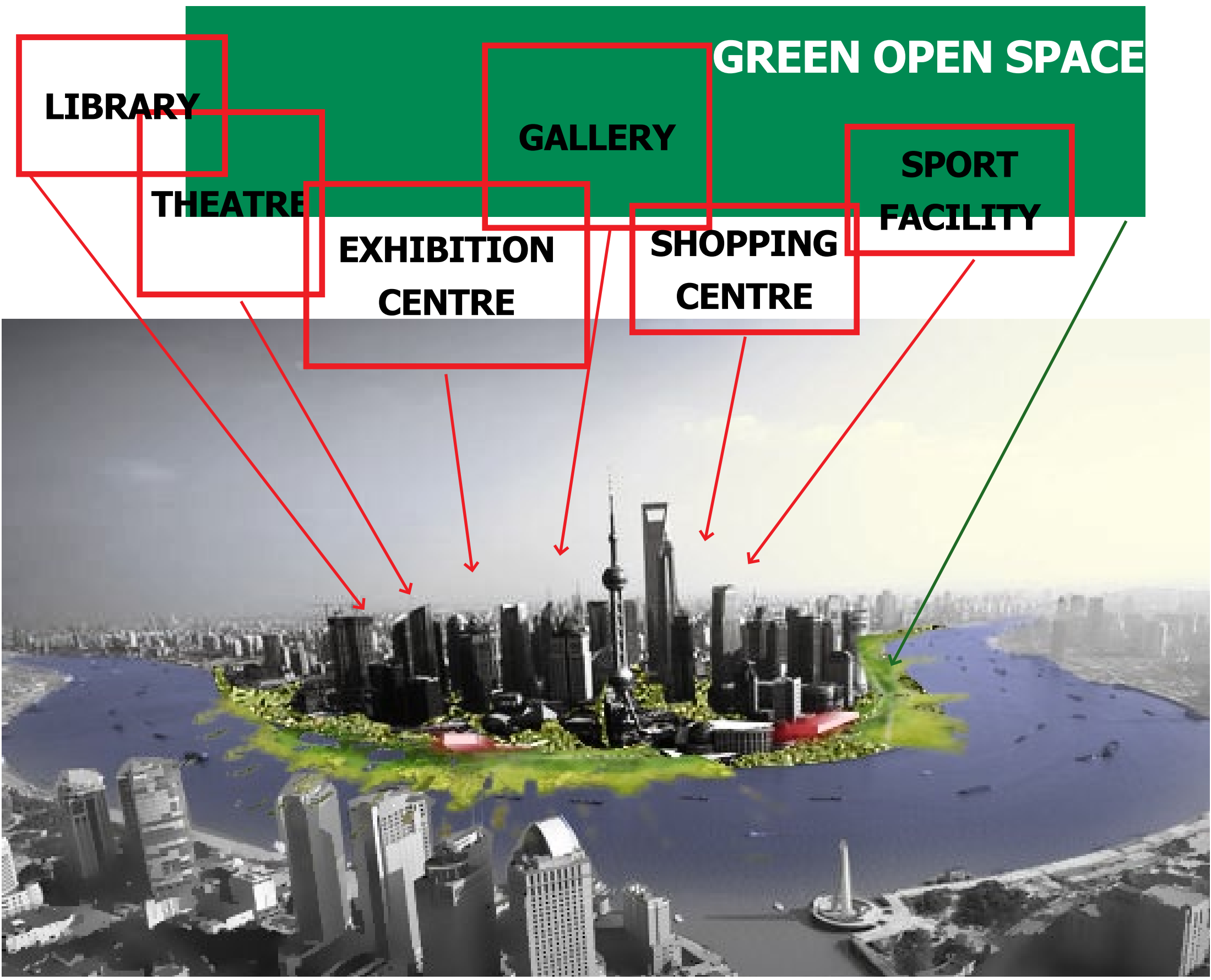
2. NEW CULTURAL NUCLEUS

Art center + Museum + Library



PROMOTE PUDONG

+ FUNCTION



GREEN OPEN SPACE

LIBRARY

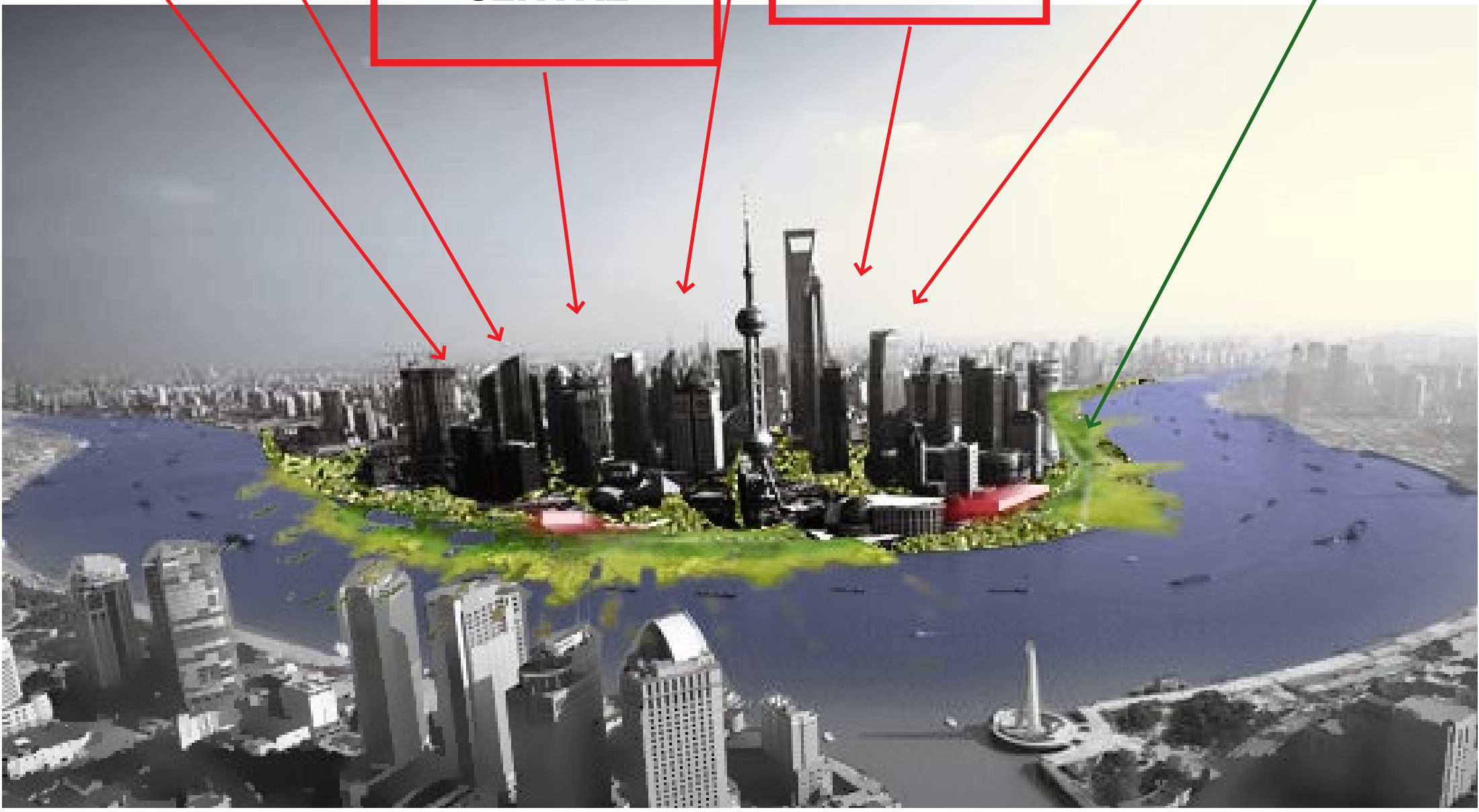
GALLERY

**SPORT
FACILITY**

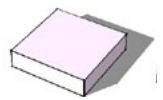
THEATRE

**EXHIBITION
CENTRE**

**SHOPPING
CENTRE**

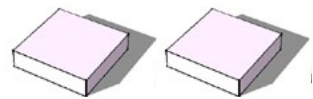


DETAIL OF PROGRAMS



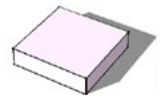
100m × 100m × 24m, 4 Floors

Urban Planning Exhibition Center



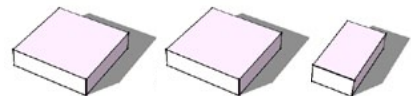
80,000 m²
2800 seats

MOCA



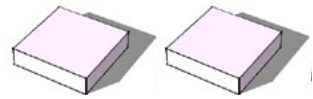
40,000 m²

Open-air Museum



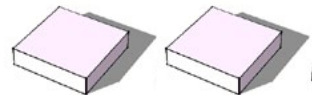
10,000 m²

Theater of Local Operas



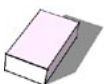
80,000 m²
2800 seats

Library



80,000 m²

Education Center



30,000 m²

Reference:



Urban Planning Exhibition Center
Floor area: 20,670 m²
Site Area: 4,000 m²
Height: 43.3 m



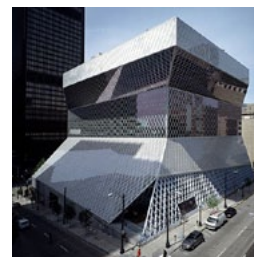
MOCA (Geffen Contemporary) Los Angeles:
Exhibition Area: 3,716 m²
One of the three MOCAs in Los Angeles



Seattle Olympic Sculpture Park:
Site Area: 34,400 m²



Southbank Centre, London:
Floor area: 88,000 m²
Site Area: 10,200 m²
Size: 166.5m × 121.5m



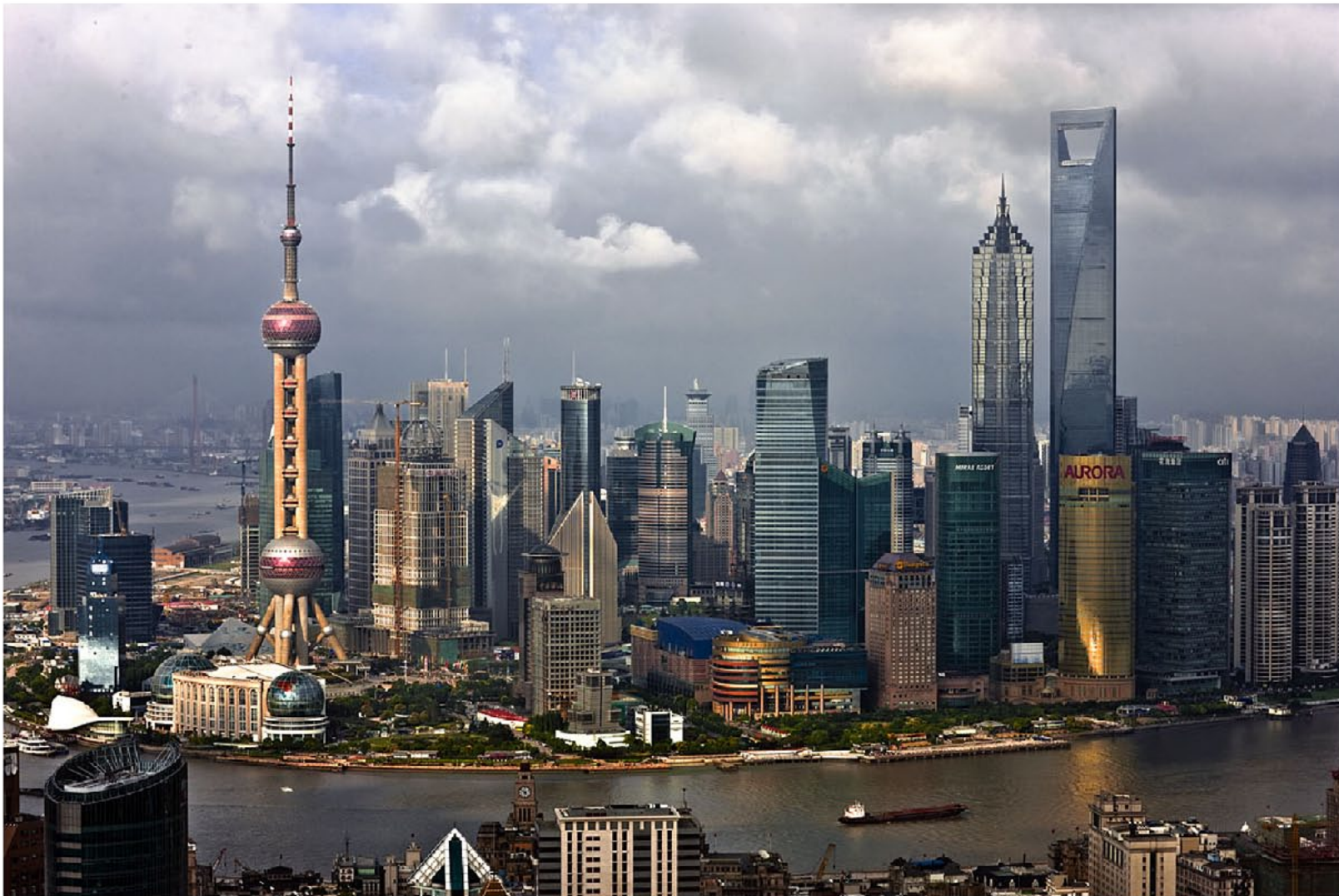
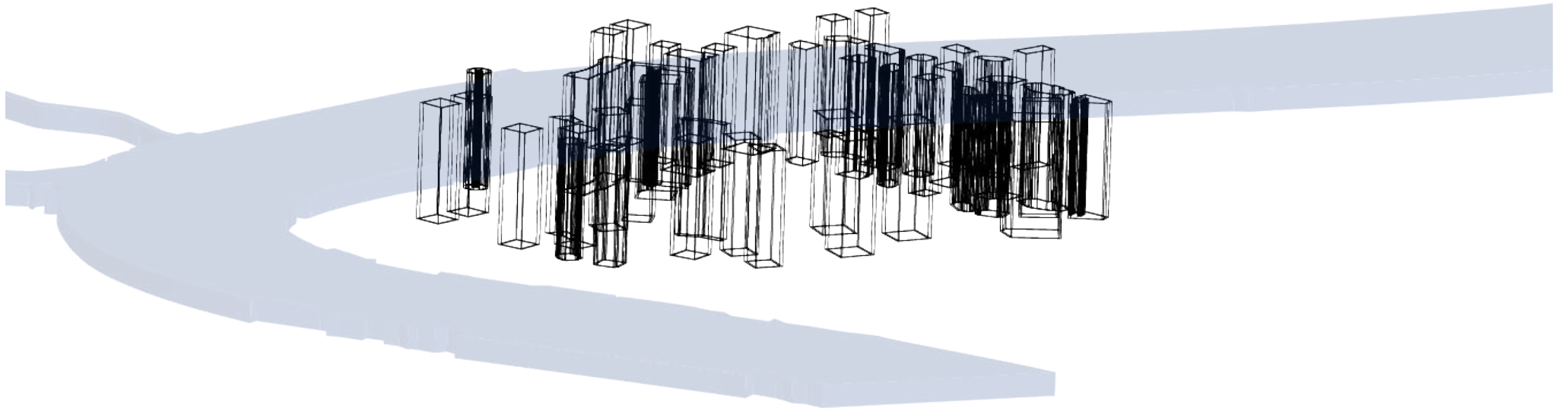
Seattle Central Library:
Floor area: 83,000 m²
Site Area: 31,000 m²
3000 seats, 20 research rooms



Rolex Learning Centre:
Floor area: 88,000 m²
Site Area: 20,200 m²
Size: 166.5m × 121.5m

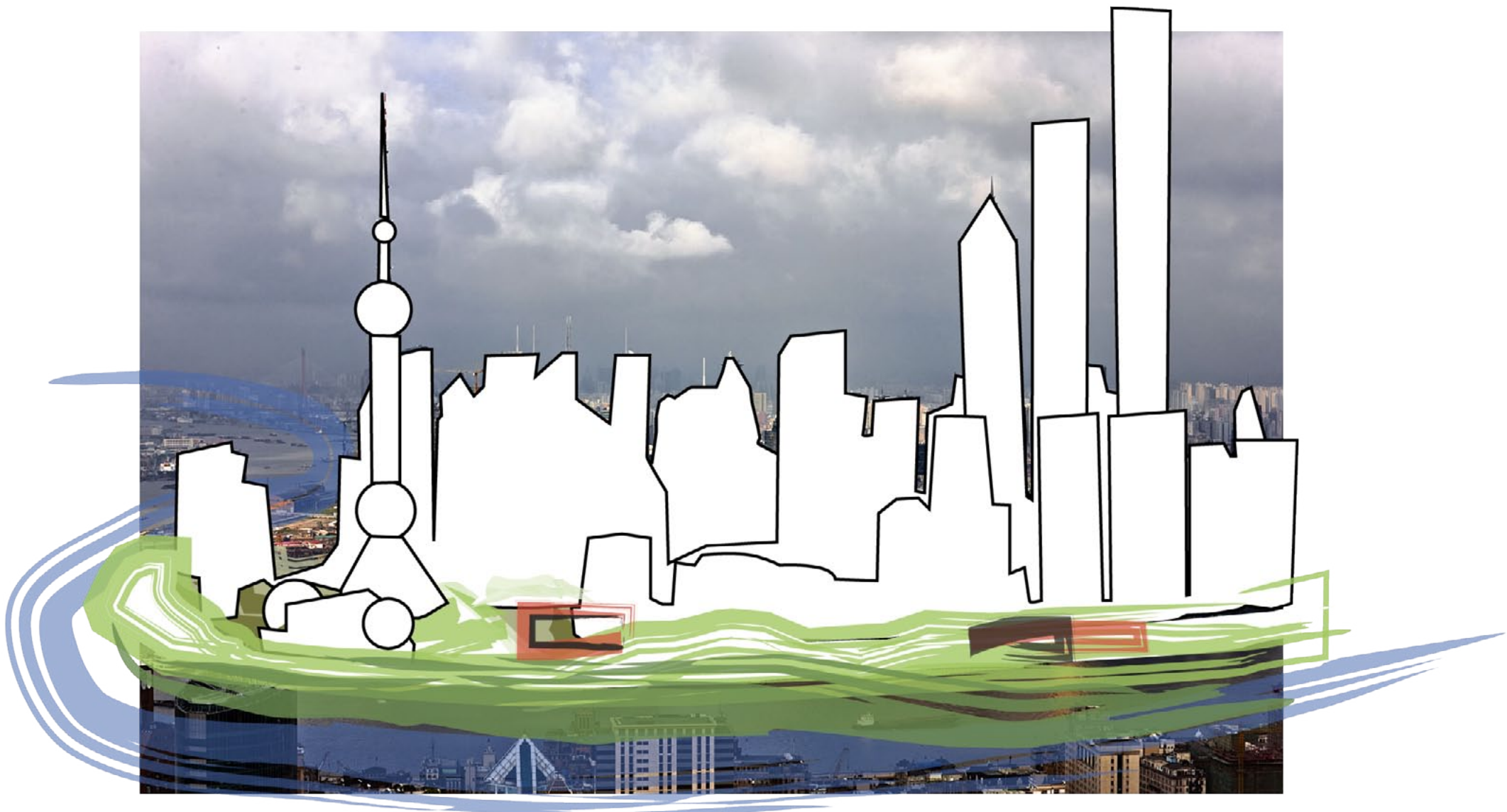
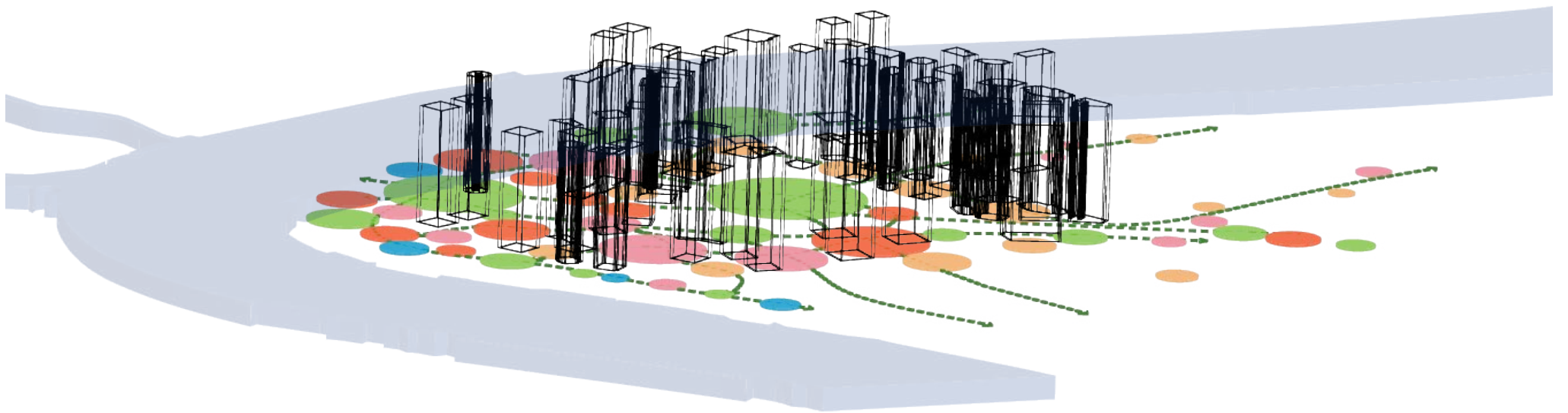
PROMOTE PUDONG

3. NEW RELATIONSHIP & SKYLINE

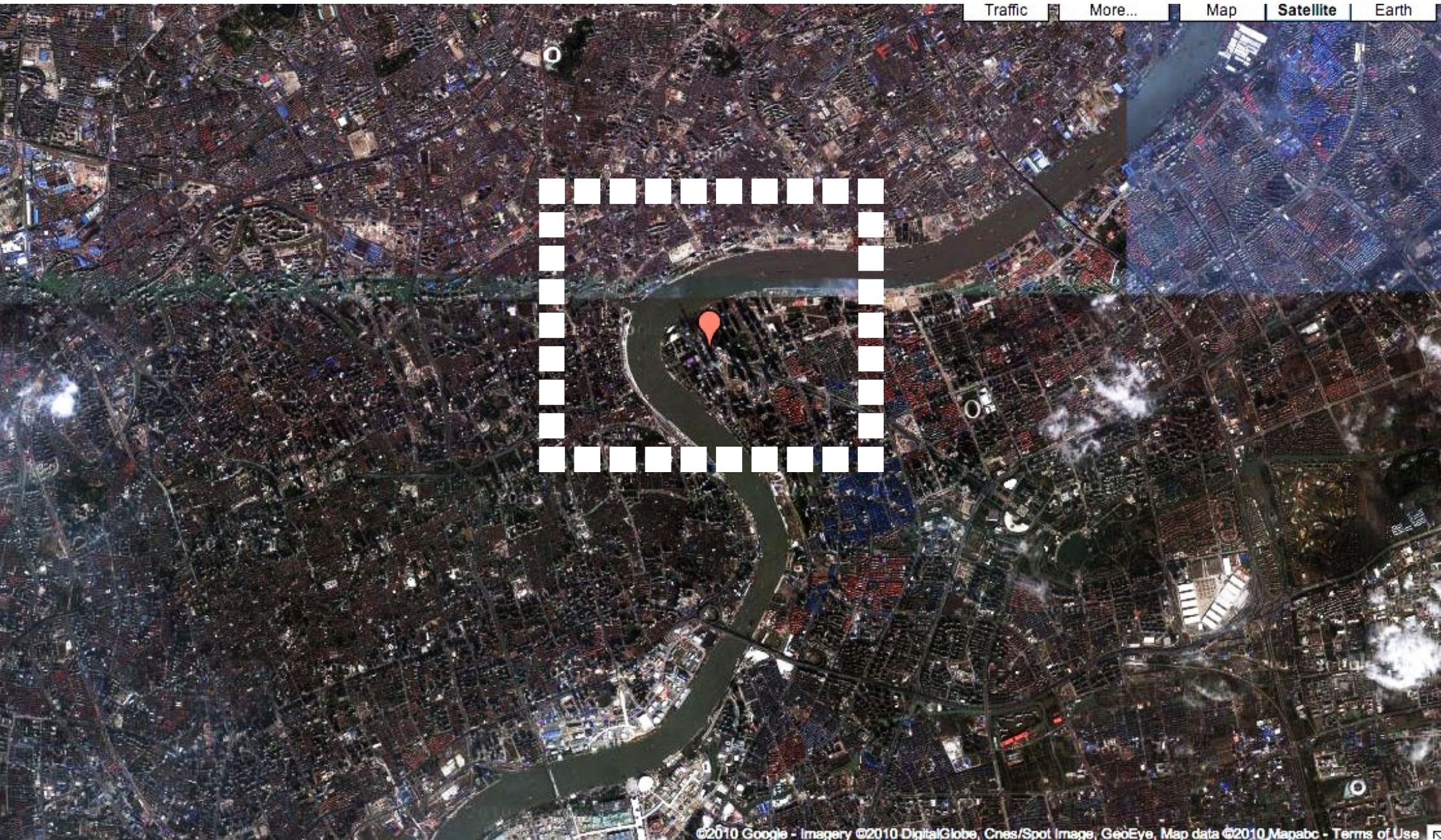


PROMOTE PUDONG

RELATIONSHIP & SKYLINE

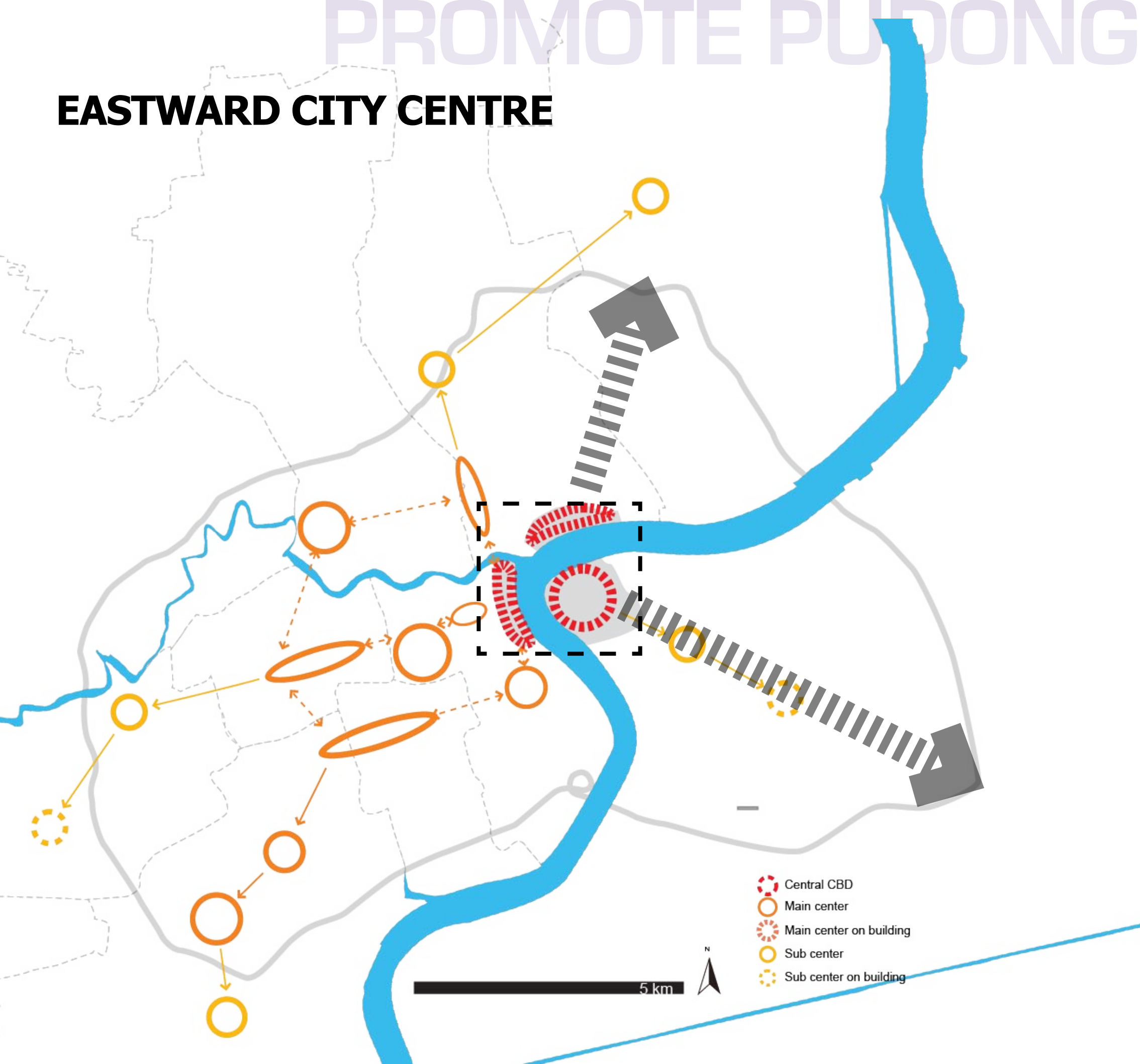


THE NEW CENTRAL CBD



PROMOTE PUDDONG

EASTWARD CITY CENTRE



PROMOTE PUDONG

WATER AS BARRIER



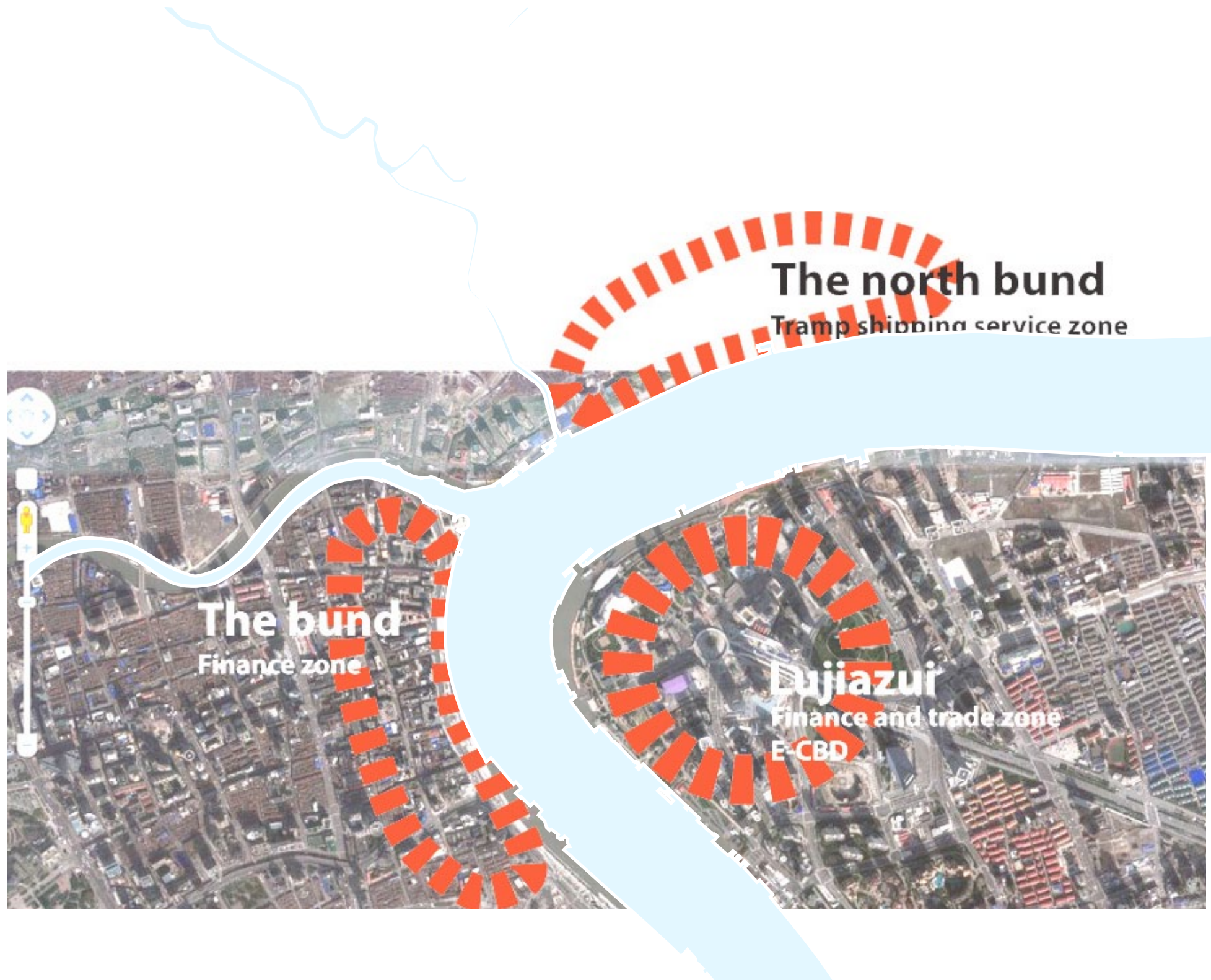
The north bund

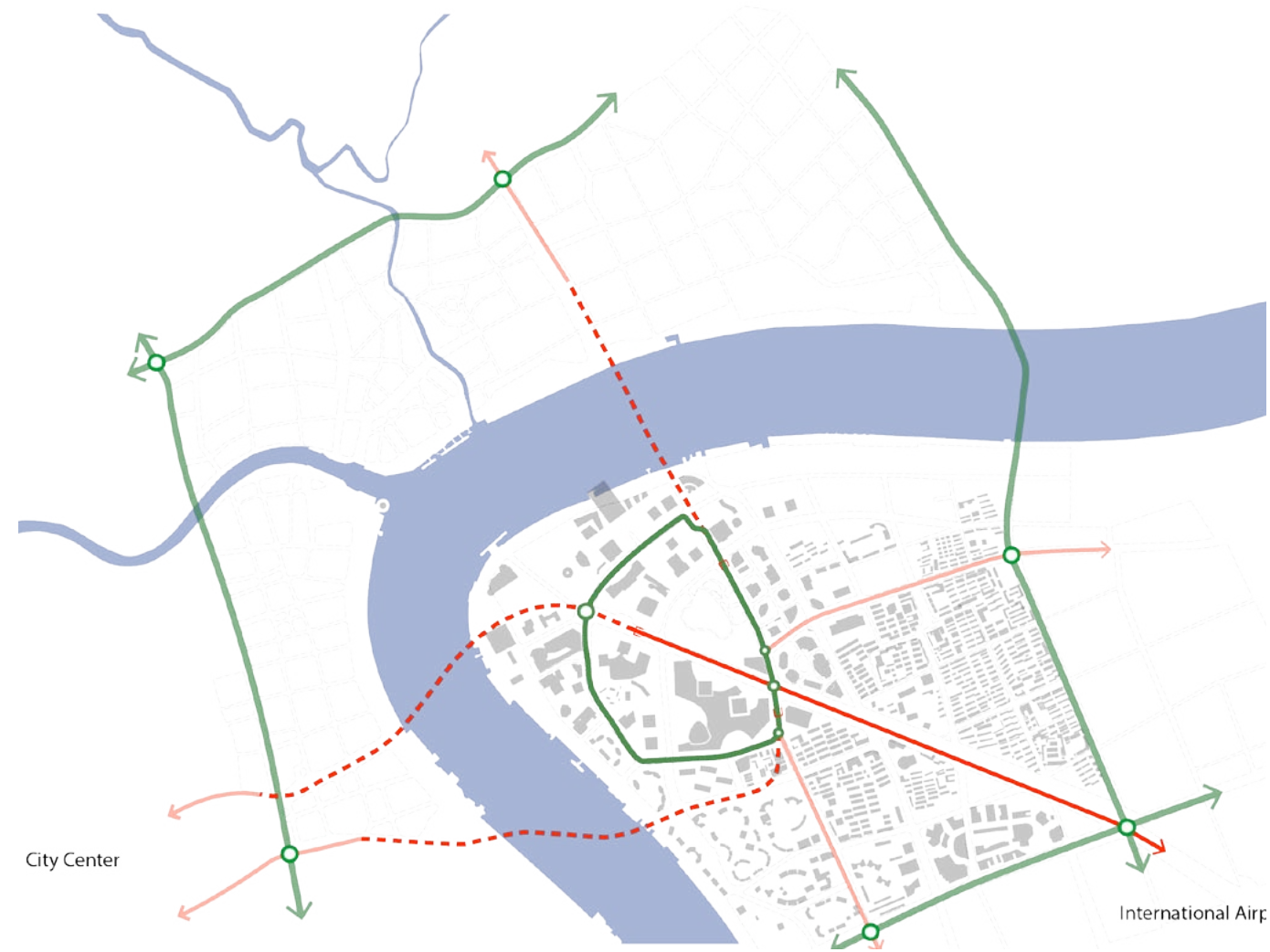
Tramp shipping service zone



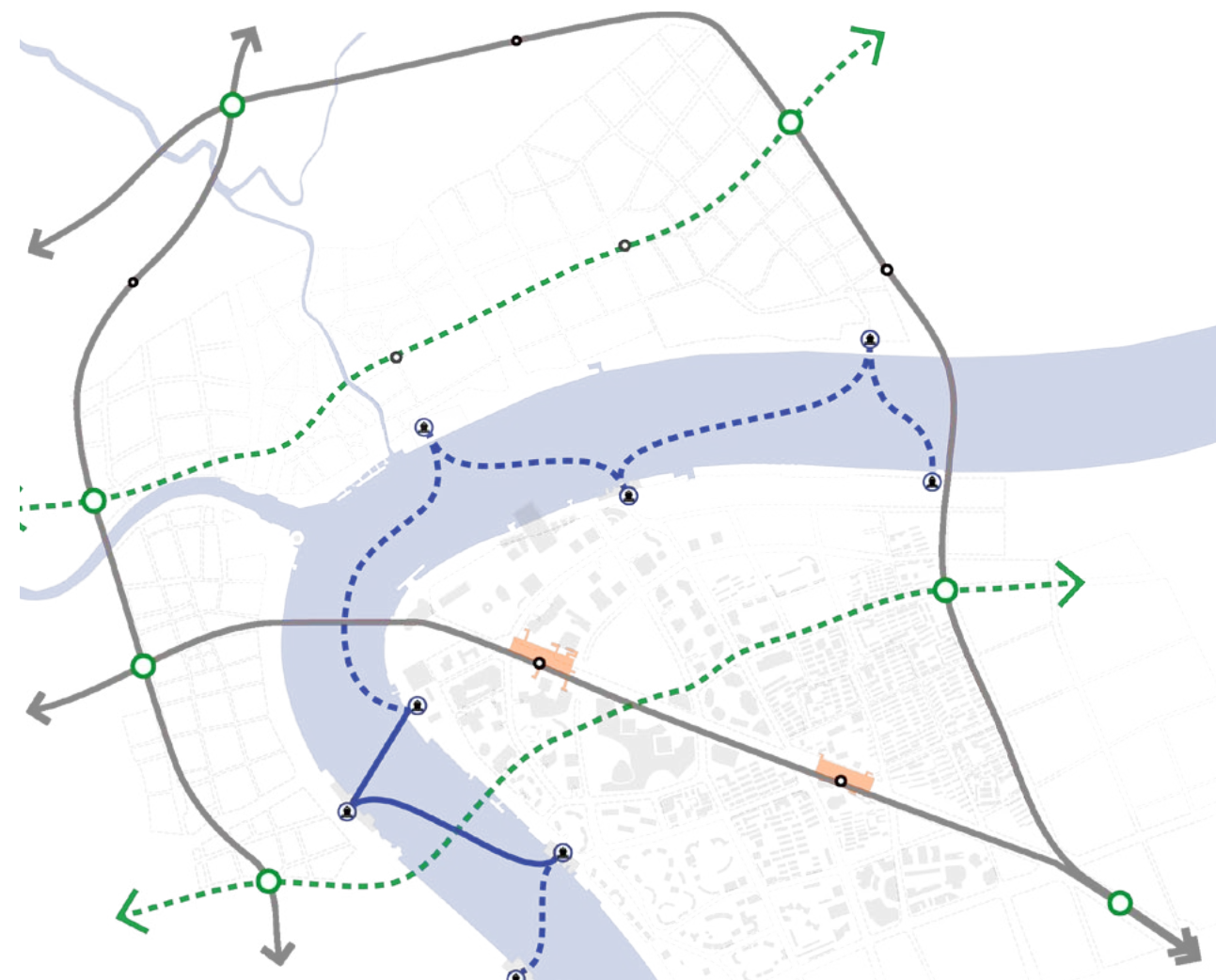
PROMOTE PUDONG

WATER AS PUBLIC SPACE





VEHICLE

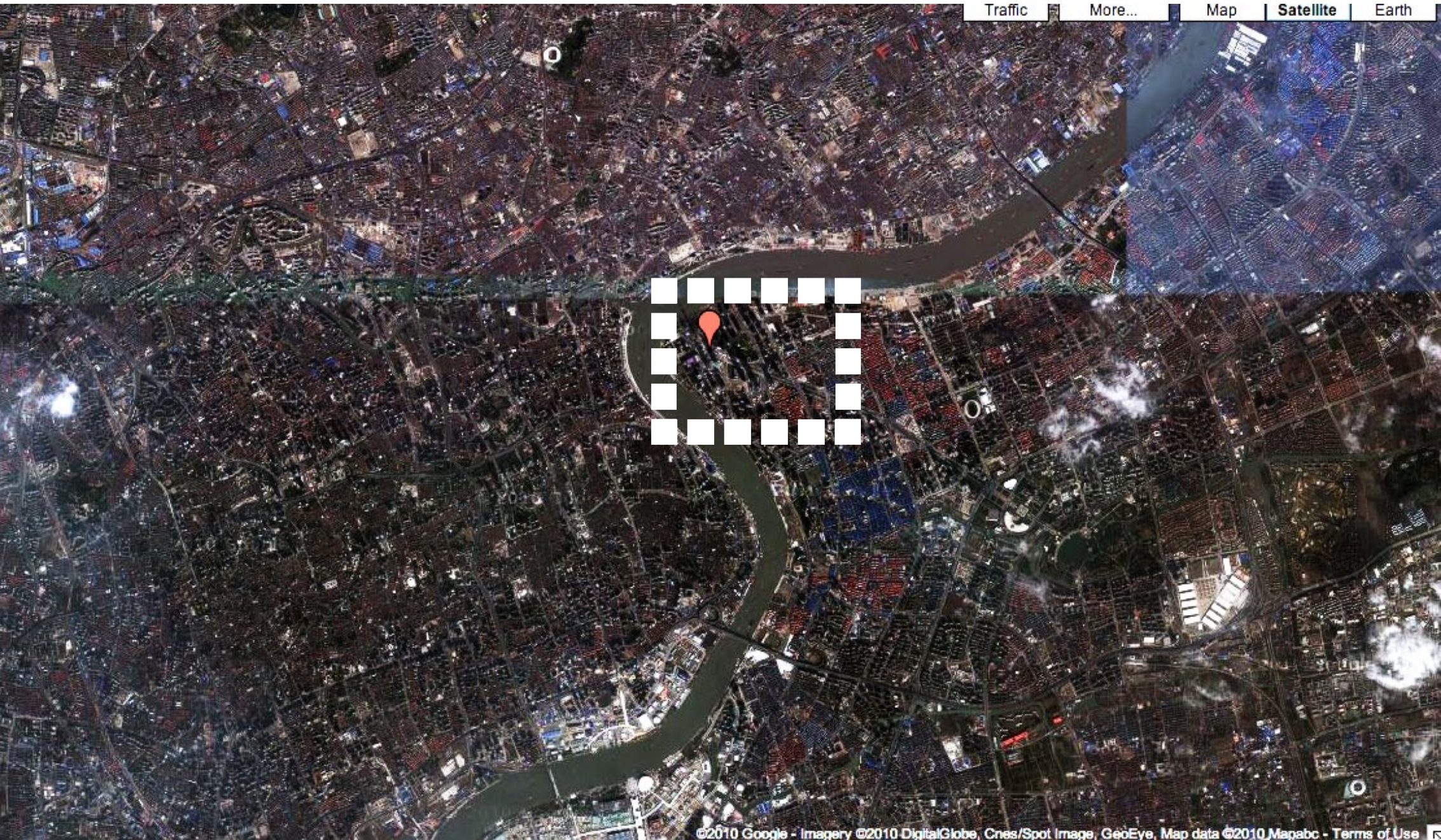


PUBLIC TRANSPORT



WATERFRONT & SIGHT LINE

LUJIAZUI F&T ZONE



BENEFIT LOCAL



SHANGHAINESS

10,000,000 in Shanghai Core Area



TOURISTS

Domestic: 84,840,000 P/Y
Abroad: 6,289,200 P/Y



OFFICE WORKERS

150,000



HABITANTS

49130 families
119,700 people

LIVE

■ •Housing

■ •Retail

■ •Housing

WORK

■ •F&T Office

■ •F&T Office

LEARN

PLAY

■ •Park

■ •Park
■ •Observation Tower

BENEFIT LOCAL

BENEFIT LOCAL



SHANGHAINESS

10,000,000 in Shanghai Core Area



TOURISTS

Domestic: 84,840,000 P/Y
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OFFICE WORKERS

150,000



HABITANTS

49130 families
119,700 people

LIVE



- Ferry
- Housing



- Retail
- Restaurant
- Coffee
- Housing

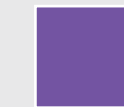


- Ferry
- Coffee
- Housing

WORK



- Art Institution
- F&T Office



- Business Event Center
- F&T Office



LEARN



- Library
- Museums



- Museums



- Library
- Educational Services



- Library
- Museum

PLAY



- Opera
- Park
- Coffee
- Bar



- Opera
- Park
- Observation Tower



- Park
- Coffee
- Bar



- Park
- Coffee
- Bar

BENEFIT LOCAL

BENEFIT LOCAL



SHANGHAINESS

10,000,000 in Shanghai Core Area



TOURISTS

Domestic: 84,840,000 P/Y
Abroad: 6,289,200 P/Y



OFFICE WORKERS

150,000



HABITANTS

49130 families
119,700 people

Green Open Space

- Park
- Walkway

- Park

- Park
- Walkway

- Park
- Walkway

Public Space

- Square
- Commercial Street

- Square
- Commercial Street

- Square

- Square

Waterside Square

- Ferry
- Sundeck
- Lawn

- Ferry
- Sundeck

- Sundeck

- Park
- Sundeck

Public Building

- Museum
- Library
- Opera

- Museum
- Library
- Opera

- Library
- Business Event Center
- Educational Services

- Library

Semi-Public Space

- Park
- Bar

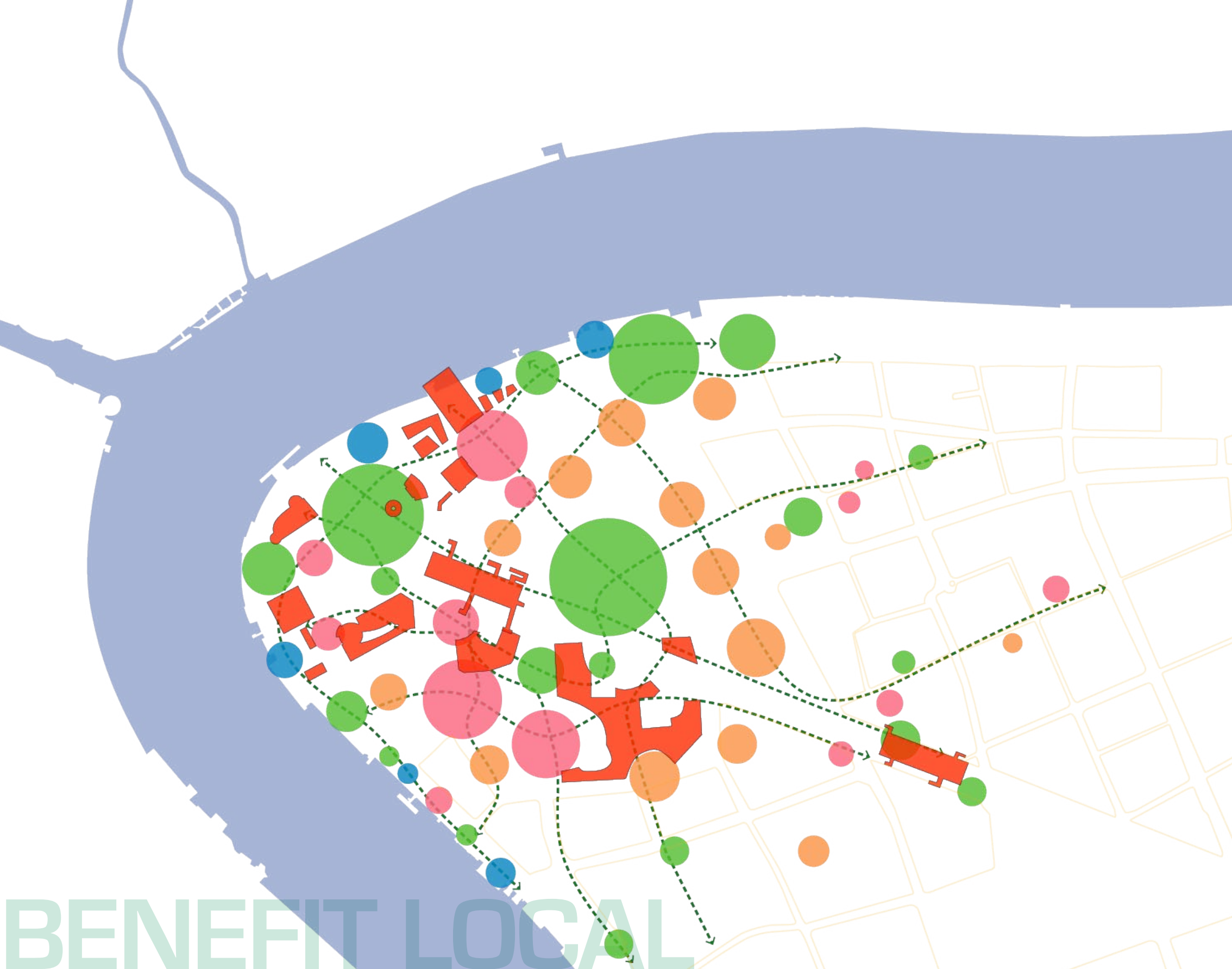
- Bar

- Retail
- Restaurant
- Coffee
- Bar

- Coffee

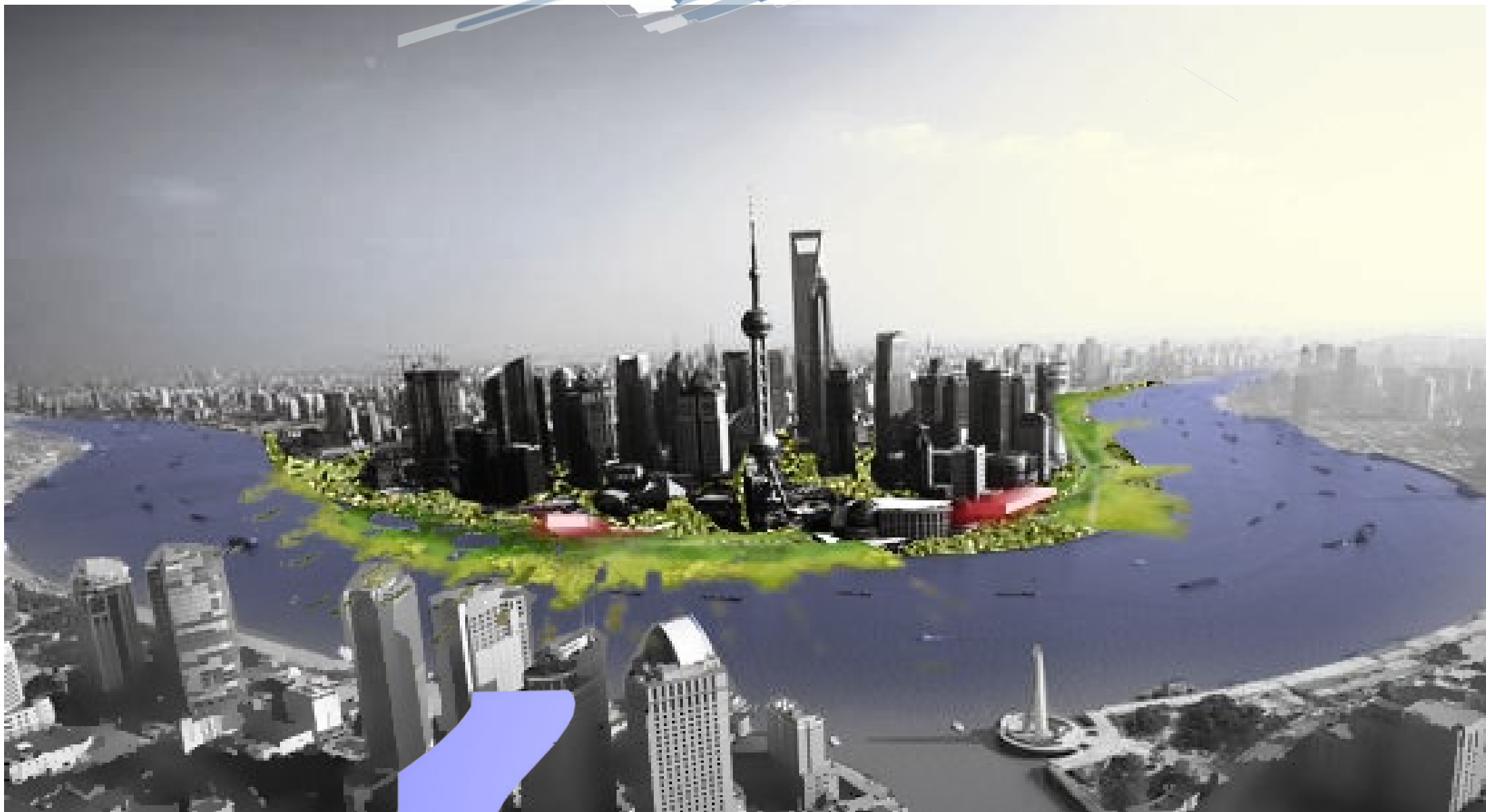
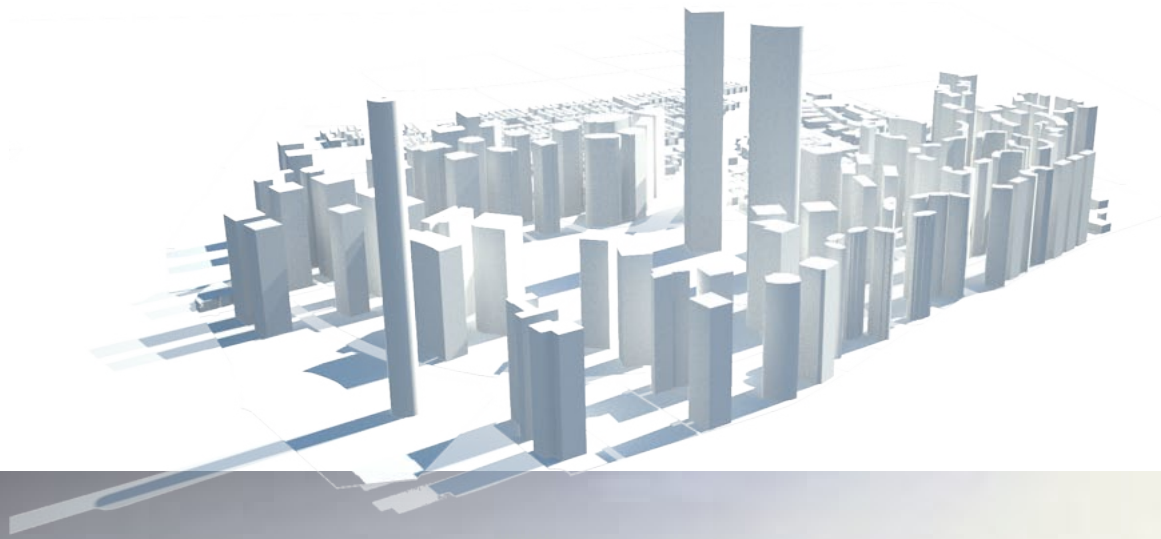
CONCEPT OF PUBLIC SPACE

Green Open Space + Public Space + Waterside Square + Public Building + Semi-Public Space



BENEFIT LOCAL

High-rise

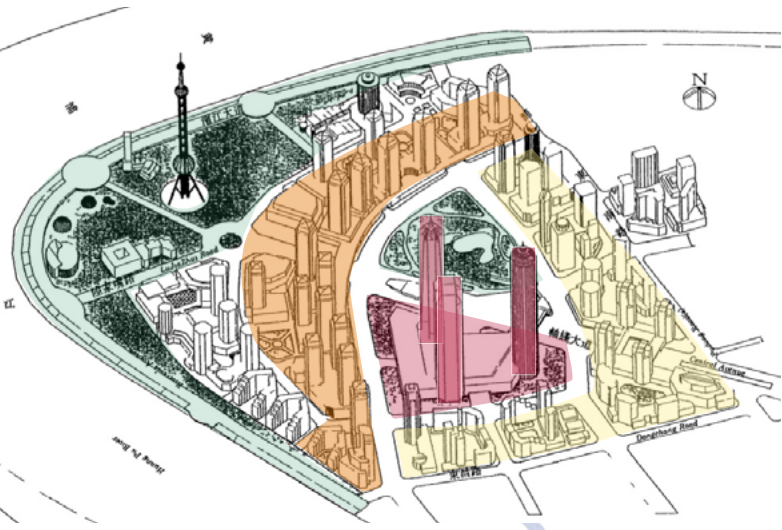


River

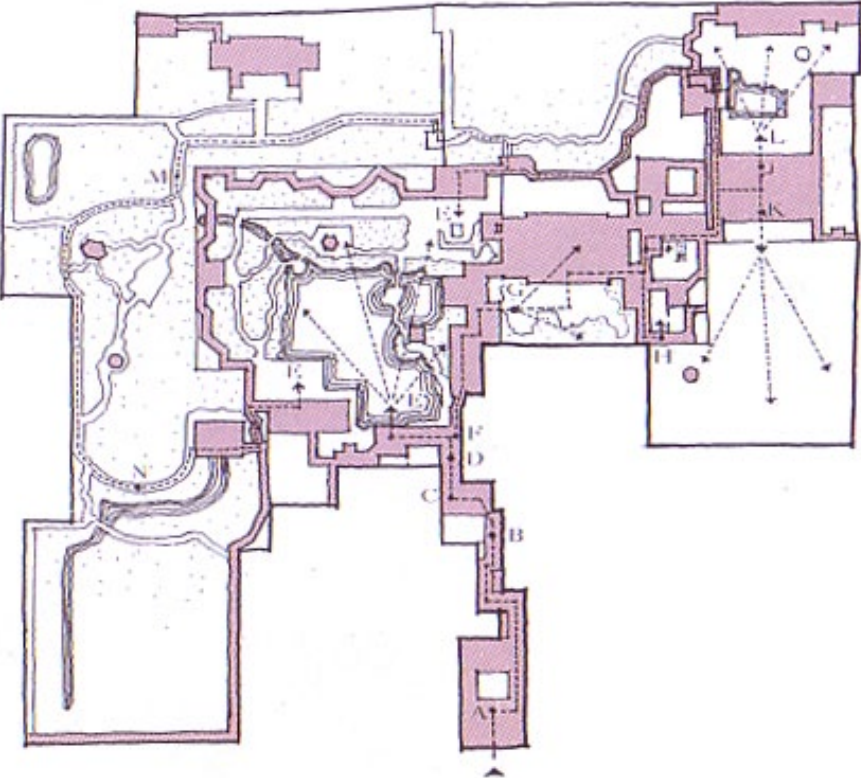
SPATIAL

Strategy

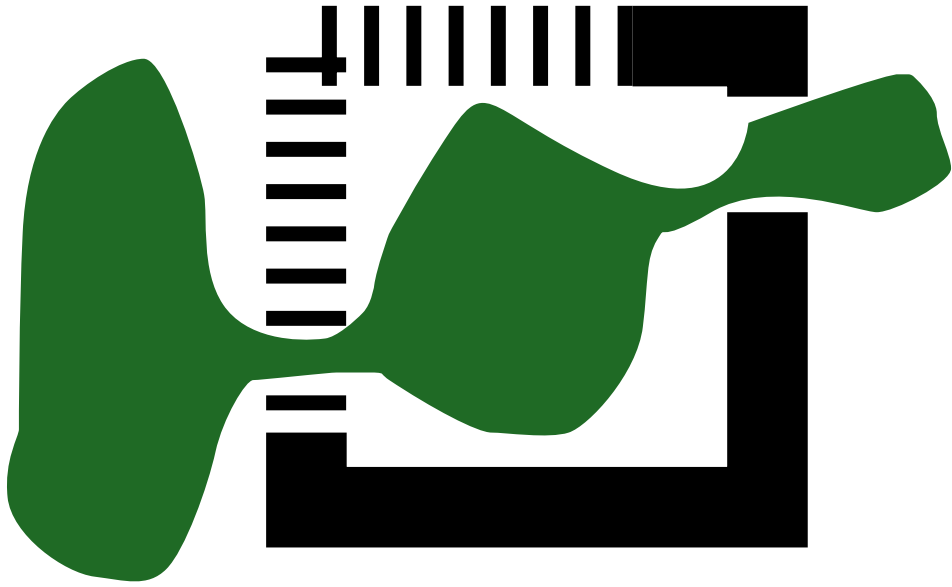
- 1. Waterfront**
- 2. Central Green**
- 3. The Axis**
- 4. General Public Space**



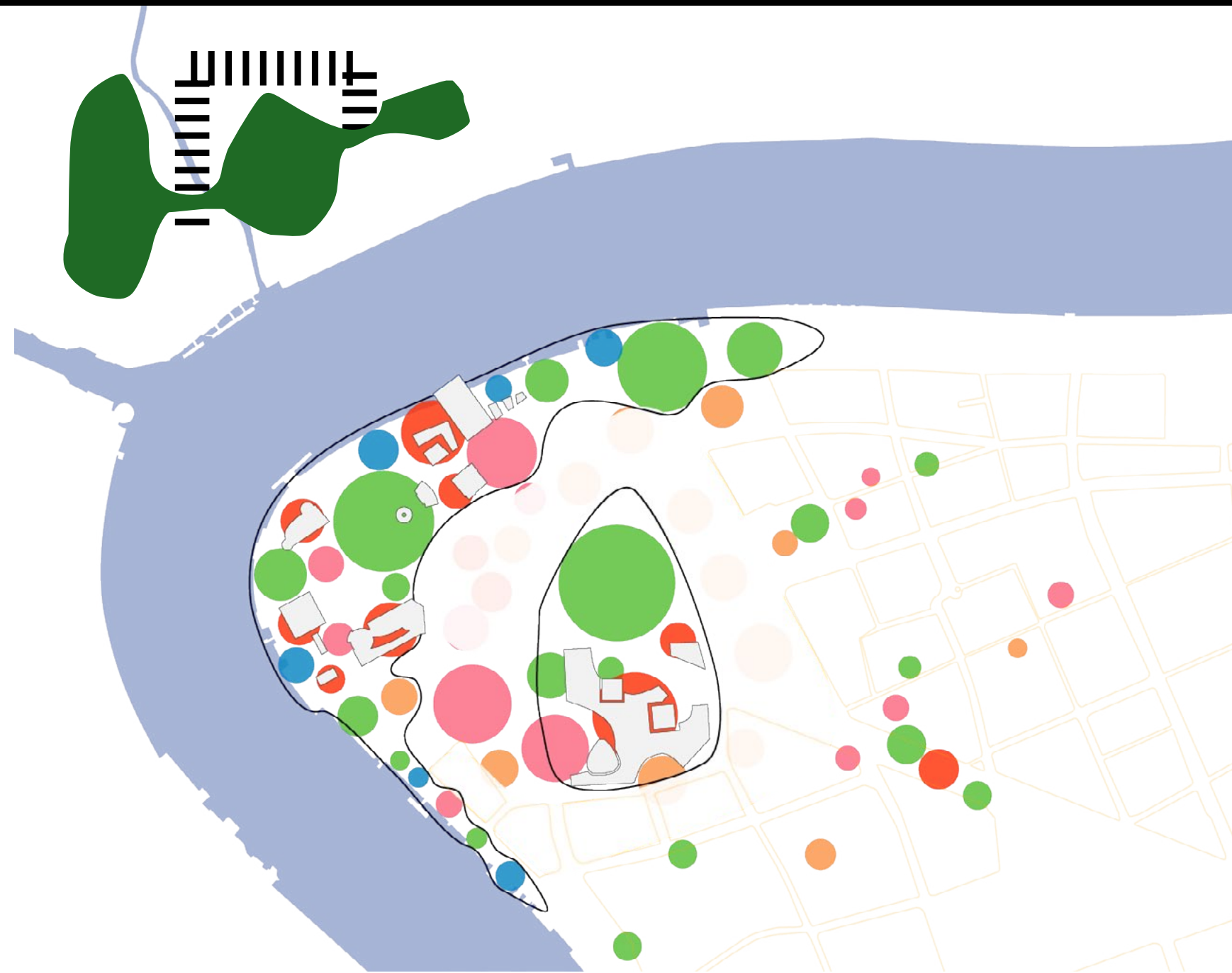
ORGANIZE SPACE - Learning From Chinese Garden



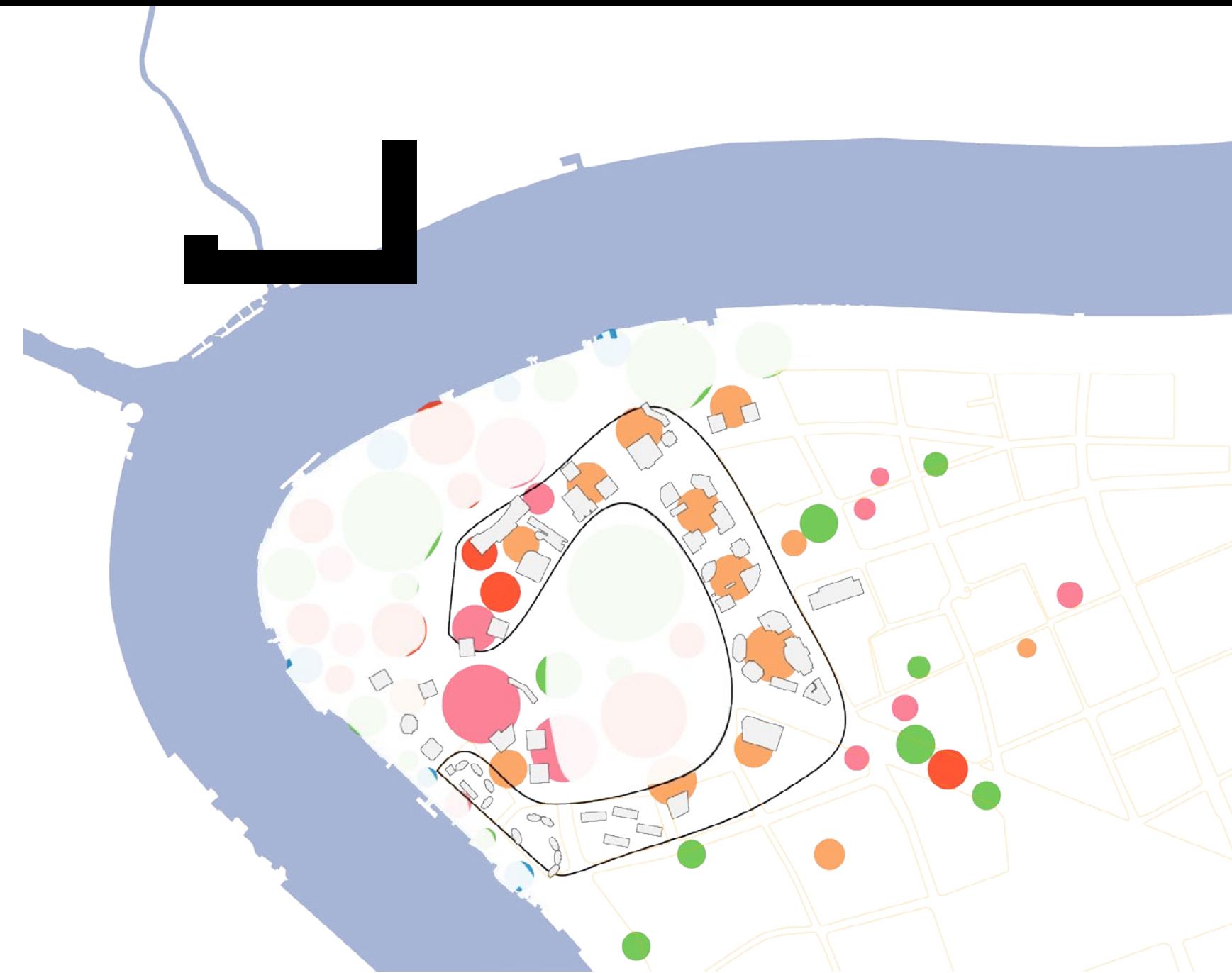
Liu Garden, Suzhou, China



Open Space Shaped by Buildings



WATERFRONT + CENTRAL GREEN



OFFICE BUILDING AREA

1. WATERFRONT + 2. CENTRAL GREEN



CULTURAL PROGRAMS

Art District

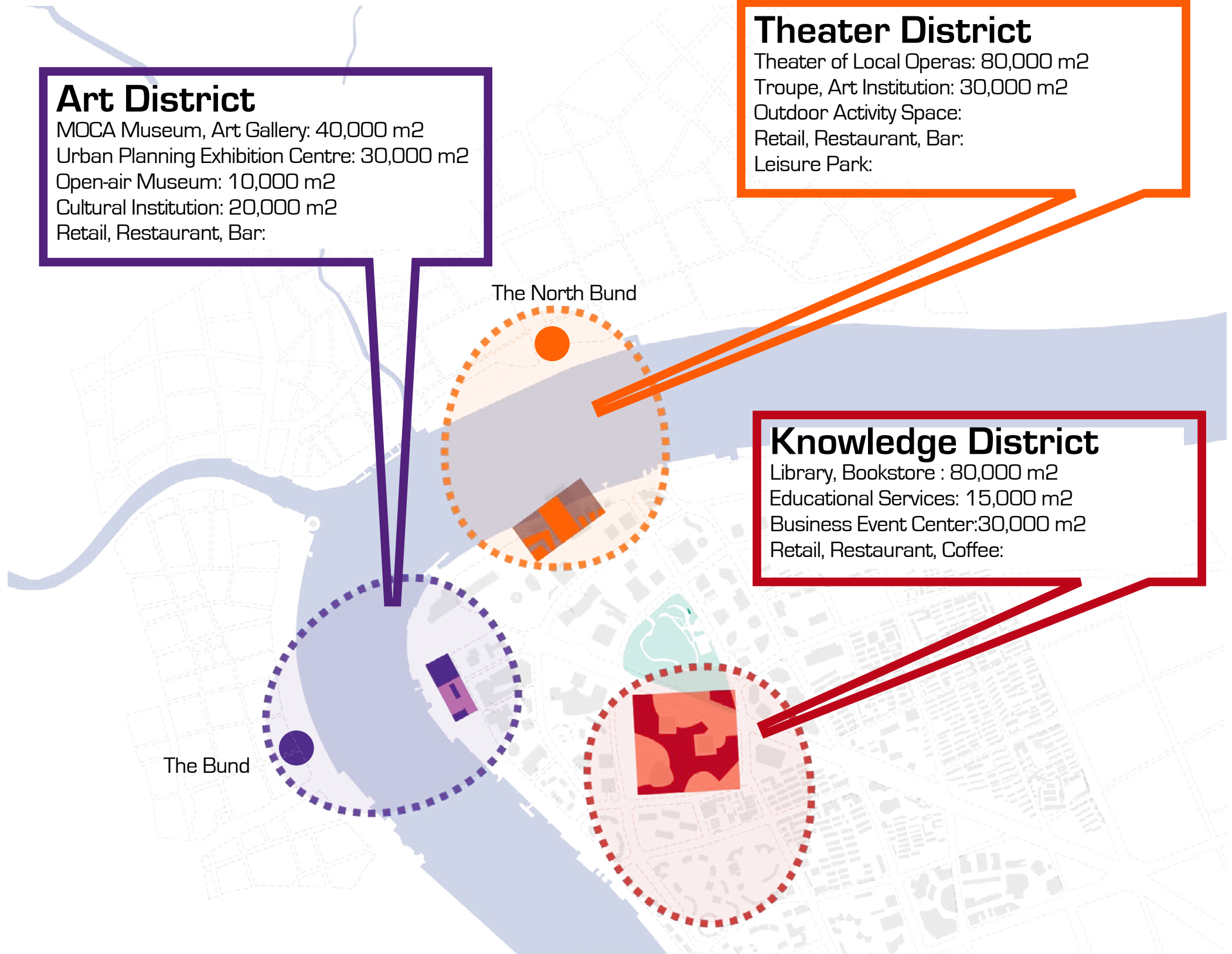
MOCA Museum, Art Gallery: 40,000 m²
Urban Planning Exhibition Centre: 30,000 m²
Open-air Museum: 10,000 m²
Cultural Institution: 20,000 m²
Retail, Restaurant, Bar:

Theater District

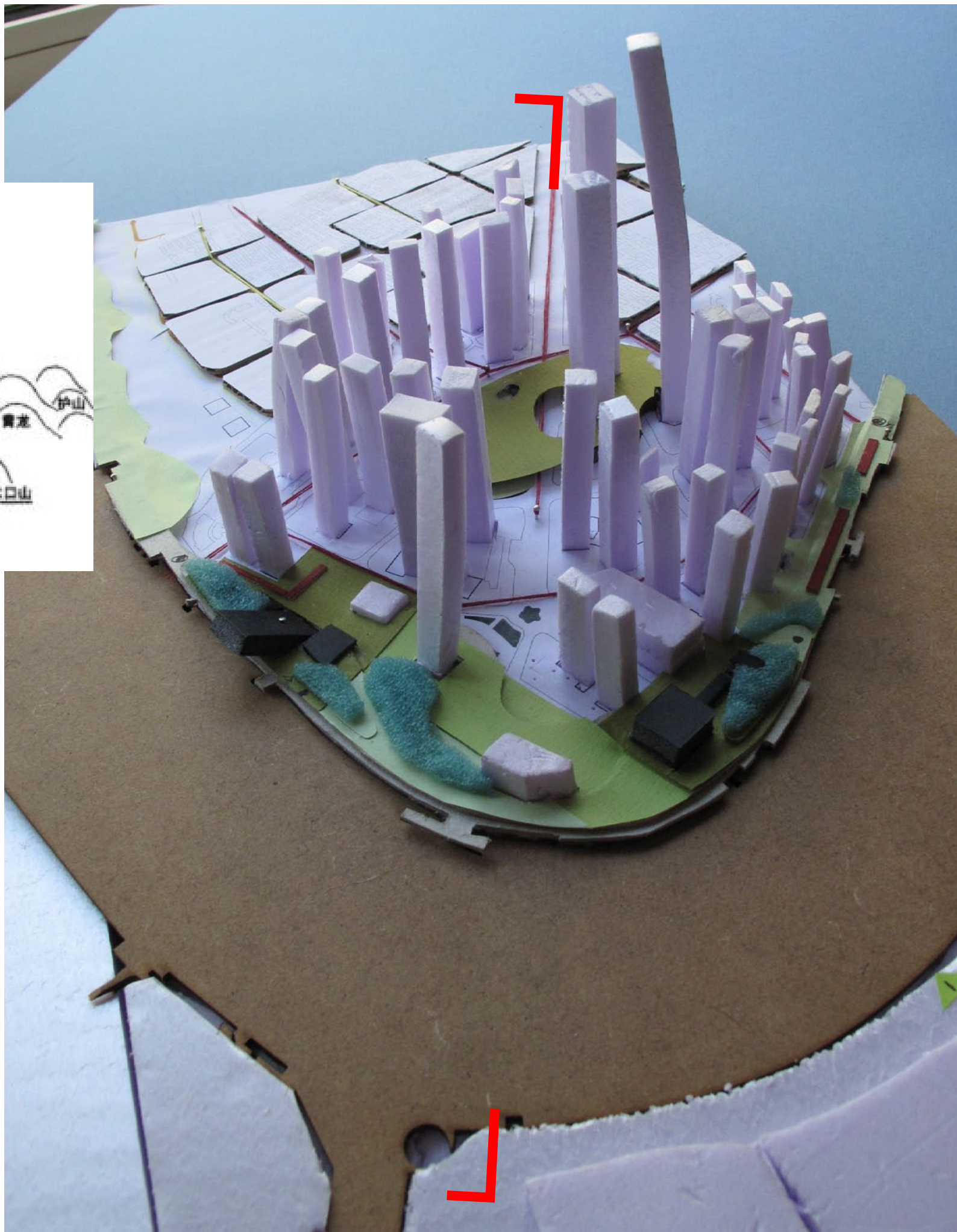
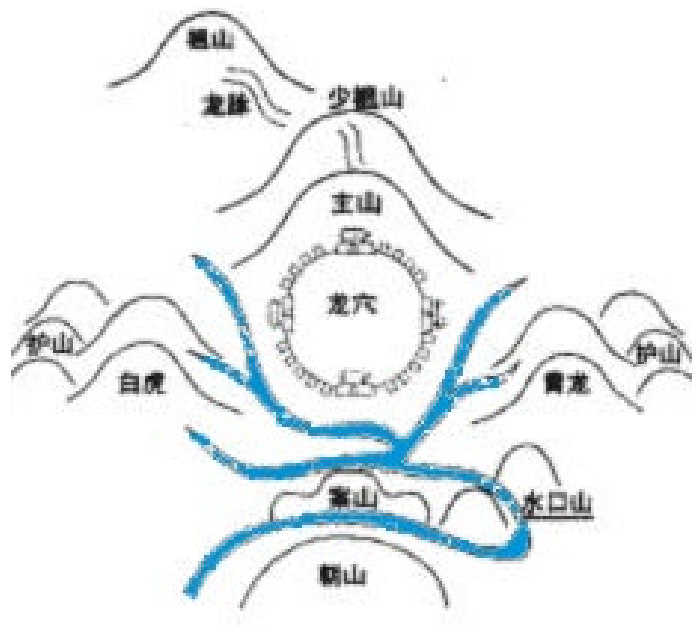
Theater of Local Operas: 80,000 m²
Troupe, Art Institution: 30,000 m²
Outdoor Activity Space:
Retail, Restaurant, Bar:
Leisure Park:

Knowledge District

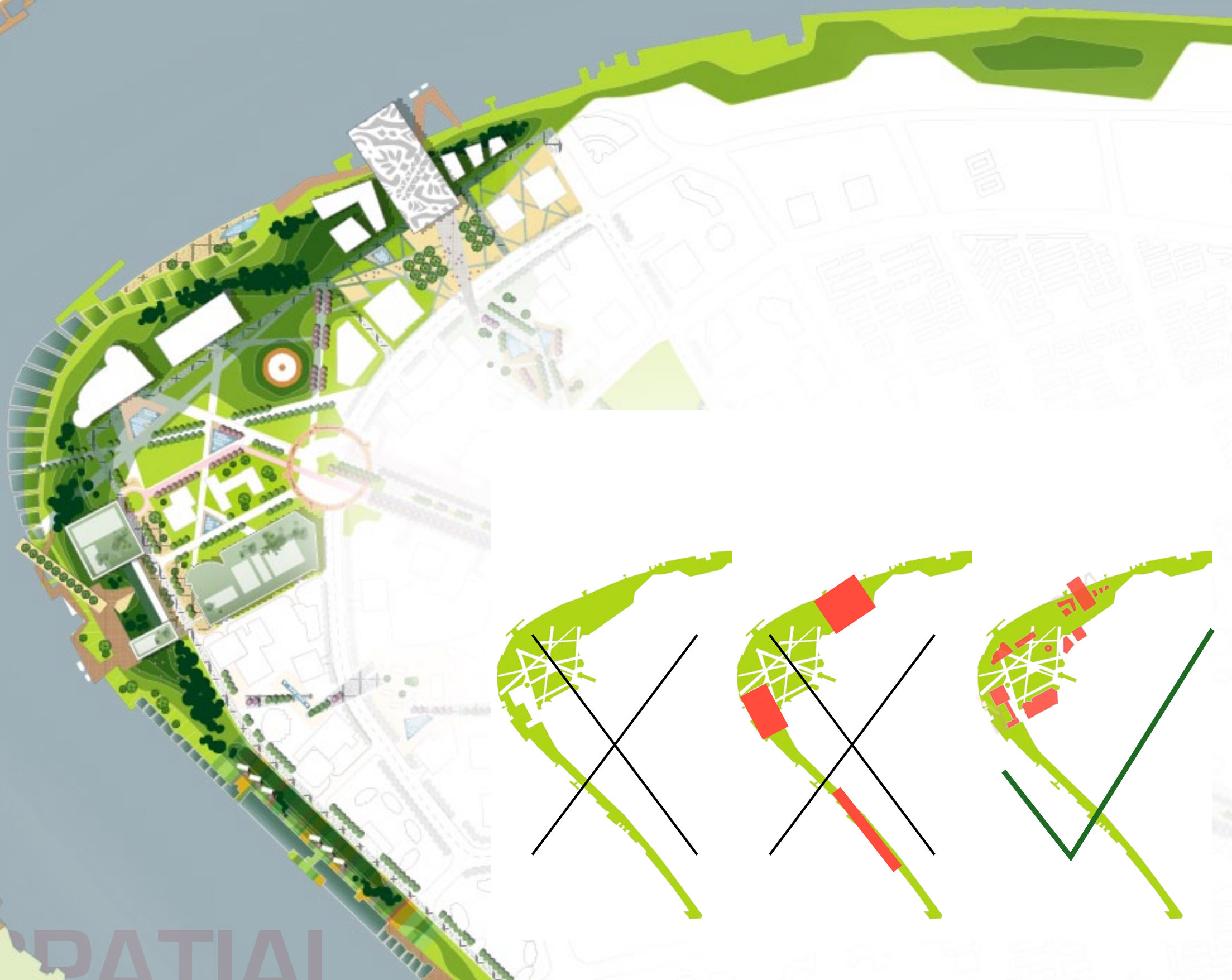
Library, Bookstore : 80,000 m²
Educational Services: 15,000 m²
Business Event Center: 30,000 m²
Retail, Restaurant, Coffee:



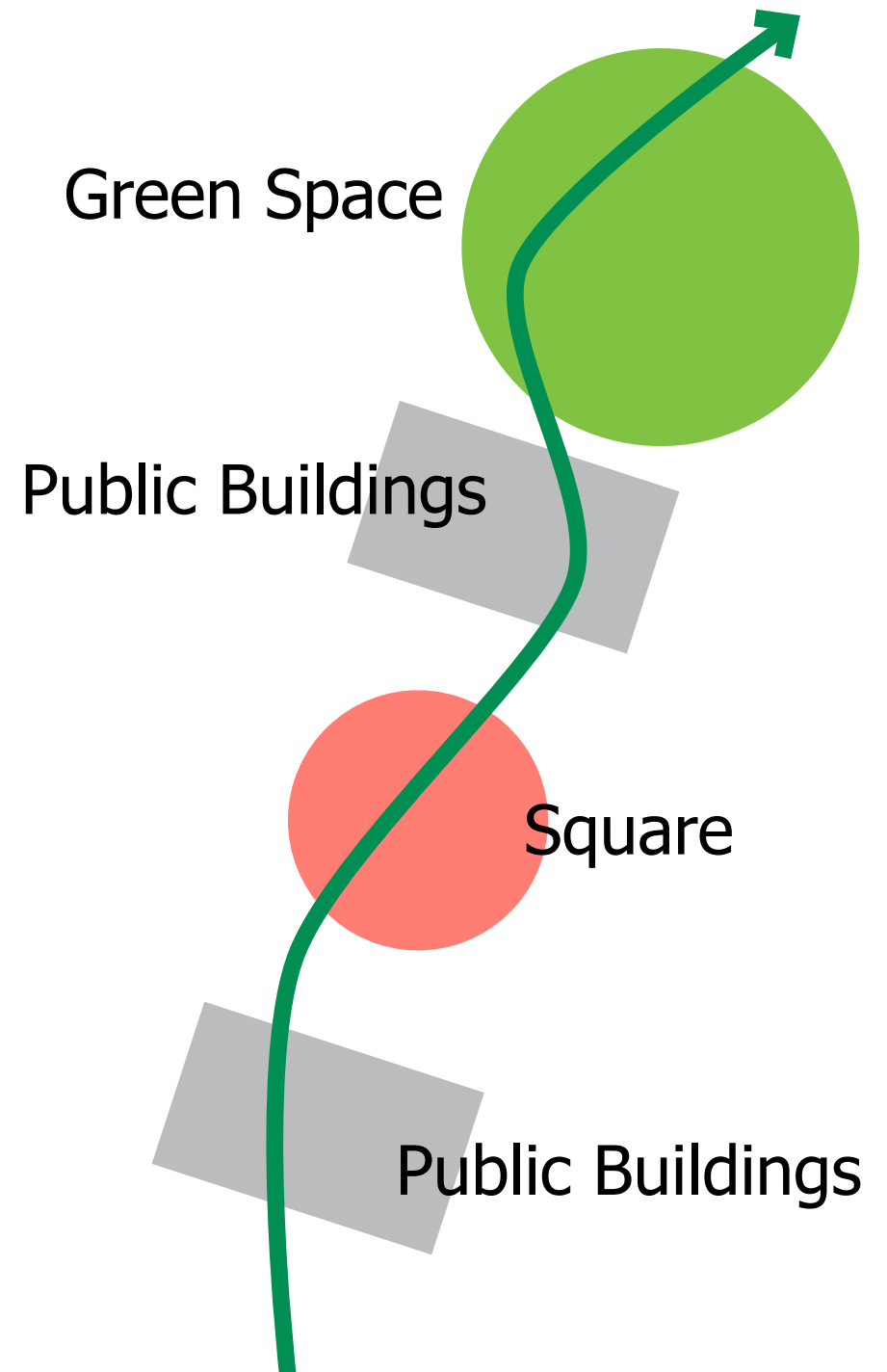
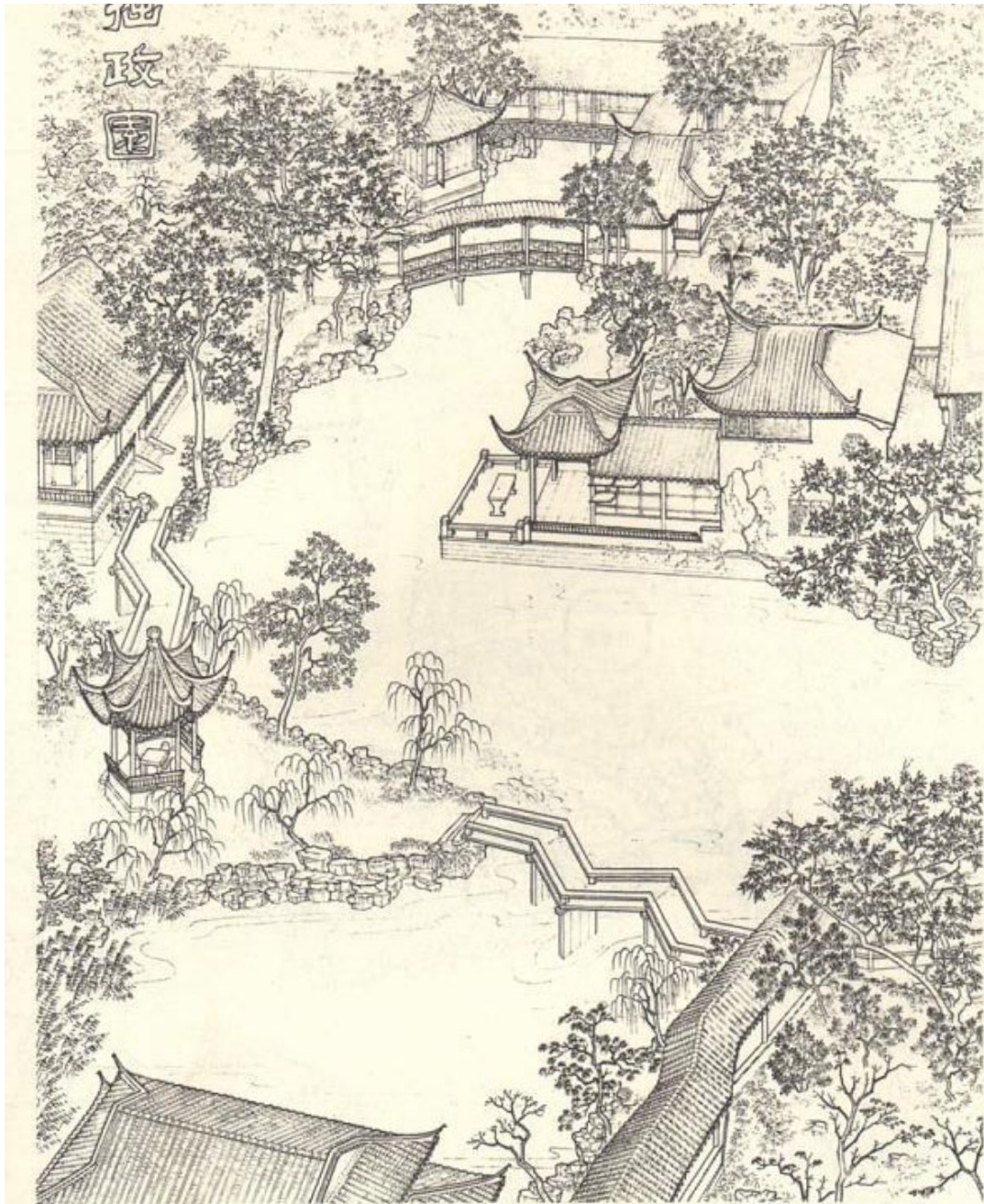
TOPOGRAPHY



WATERFRONT - BUILDINGS IN GREEN

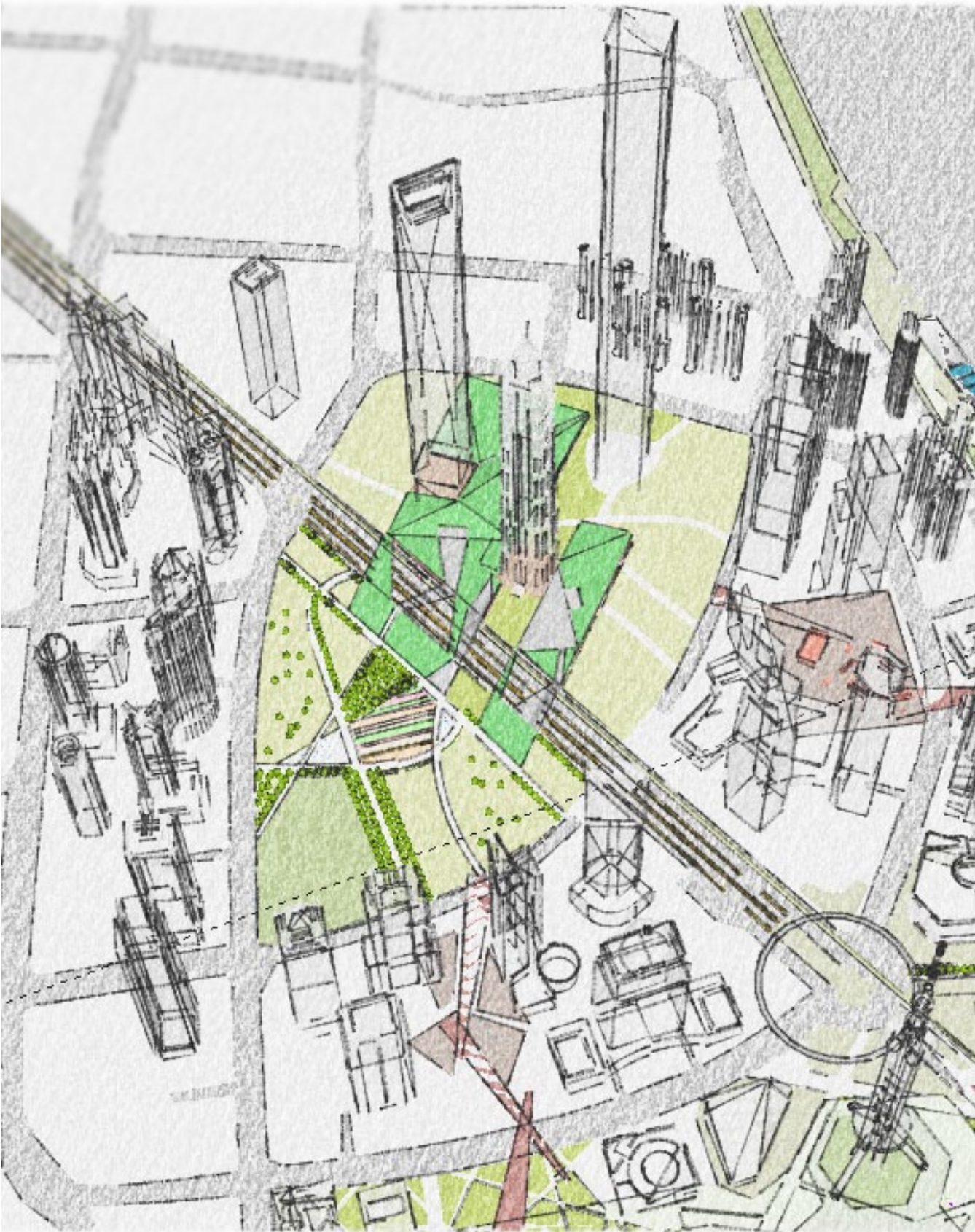


ROUTING EXPERIENCE - Learning From Chinese Garden



SPATIAL

CENTRAL GREEN - BUILDINGS IN GREEN



SPATIAL

3. THE AXIS

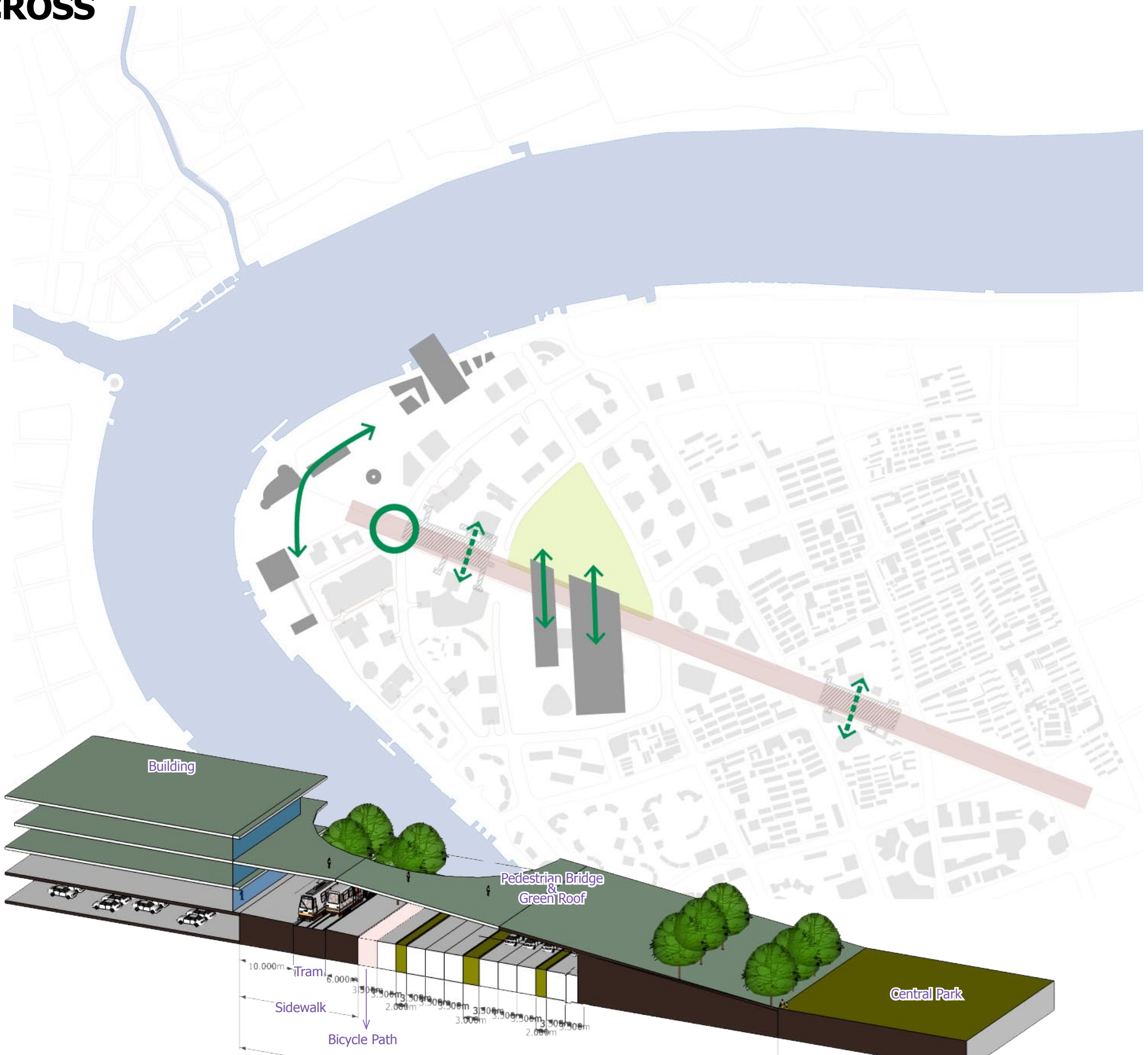


00m 500m

STRENGTHEN THE CONNECTION



ACROSS



4. GENERAL PUBLIC SPACE



PUBLIC SPACE BETWEEN OFFICE BUILDINGS



Urban Pattern: with boundary of blocks

In between Office buildings



Urban Pattern: only with building

In between housing buildings

PUBLIC SPACE BETWEEN OFFICE BUILDINGS



SPATIAL

LINK BETWEEN OFFICE AREA AND NEIGHBOURHOODS



SPATIAL

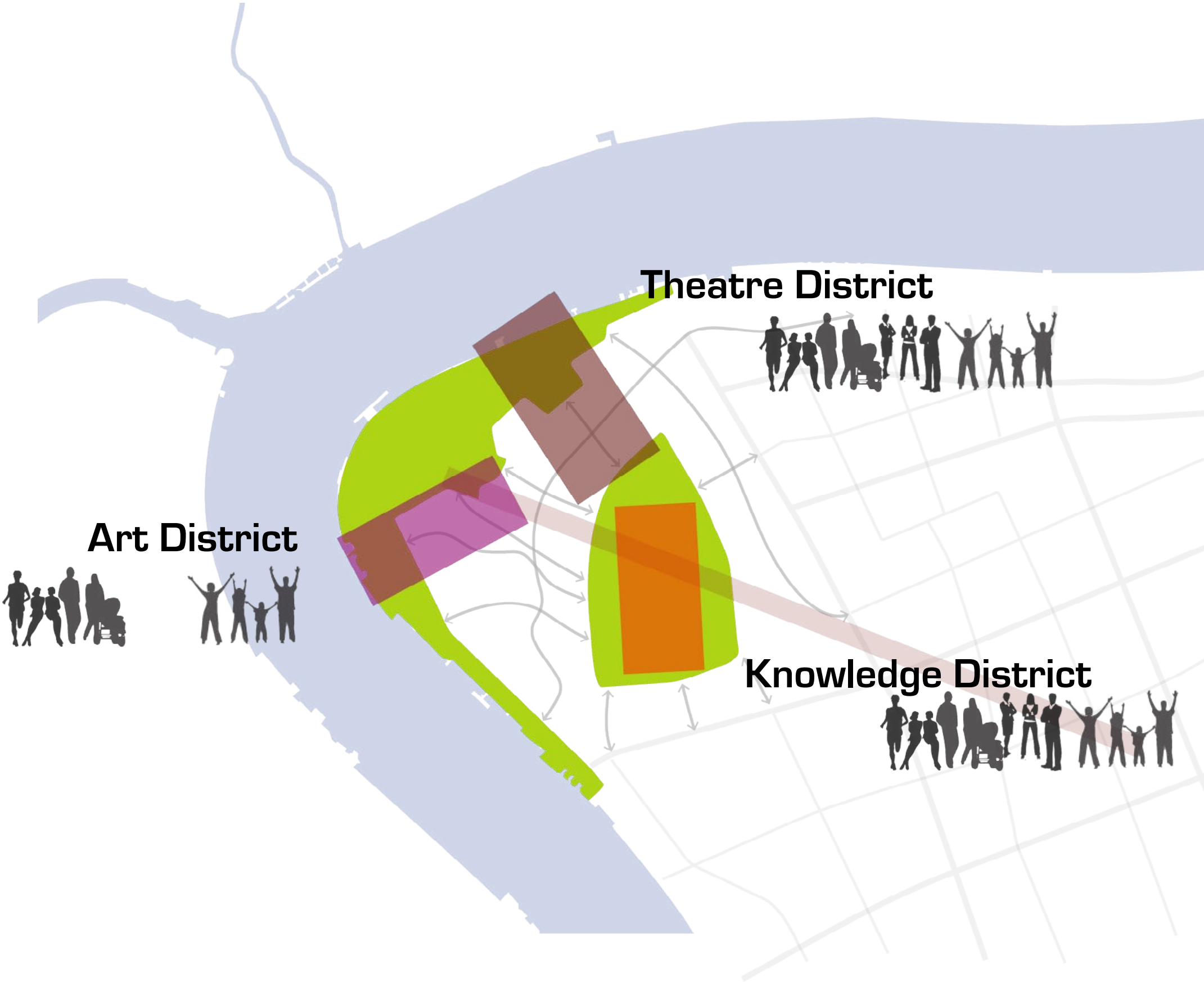
MASTER PLAN



Design

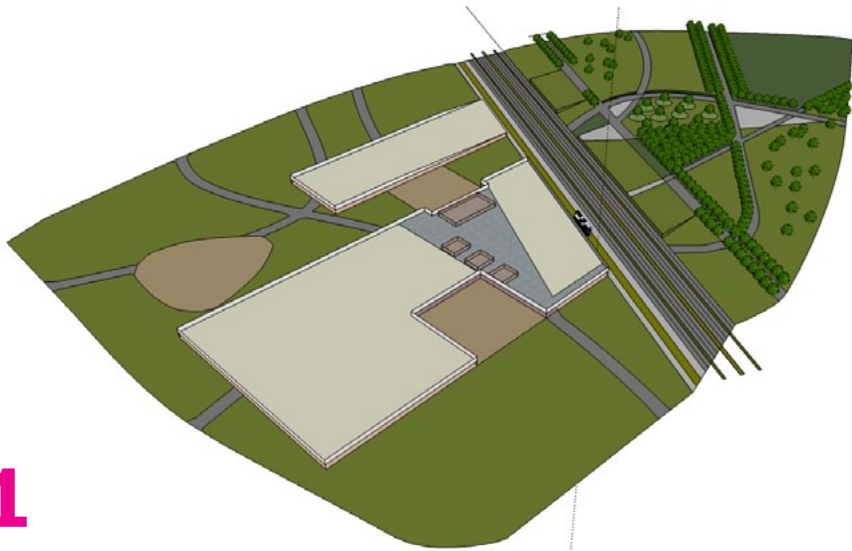
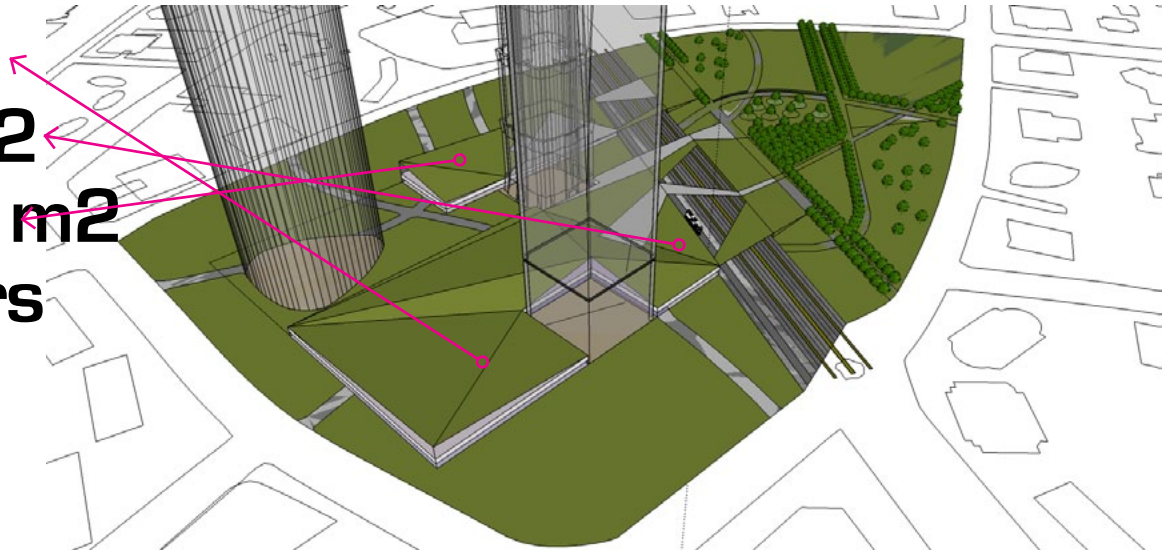
- 1. Three Districts**
- 2. Waterfront**

1. THREE DISTRICTS

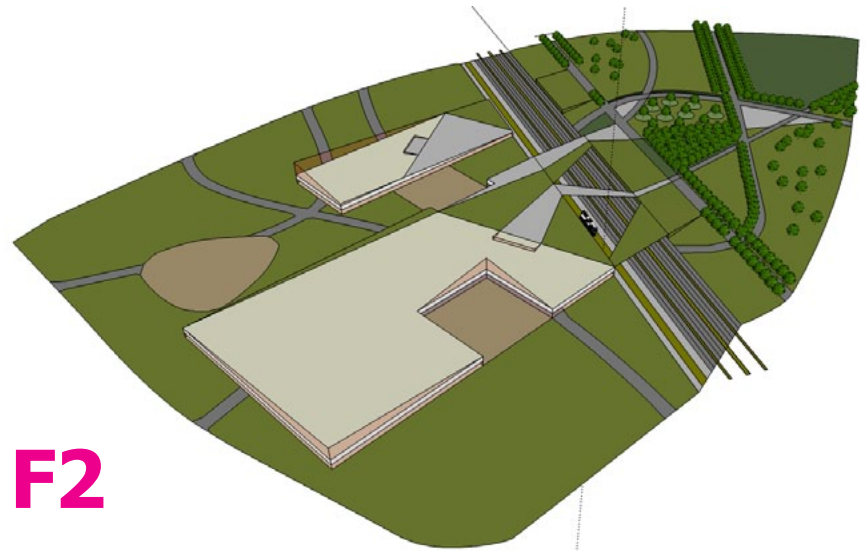


KNOWLEDGE DISTRICT

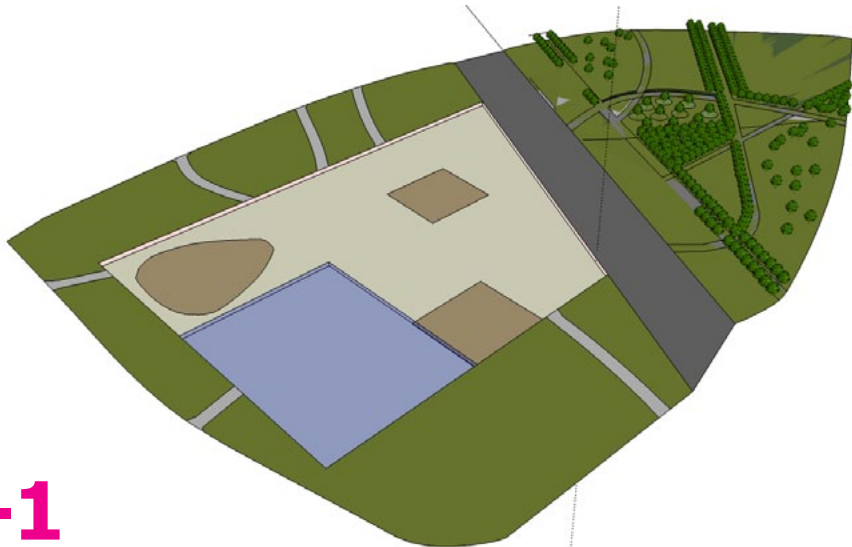
Library, Bookstore : 87,000 m²
Educational Services: 17,700 m²
Business Event Center: 32,500 m²
Parking: 55,700 m² 2800 cars



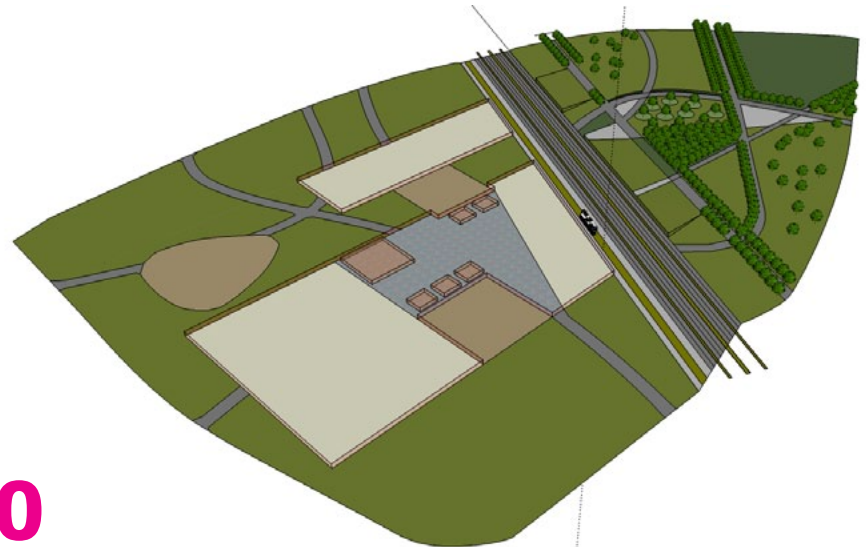
F1



F2



F-1



F0

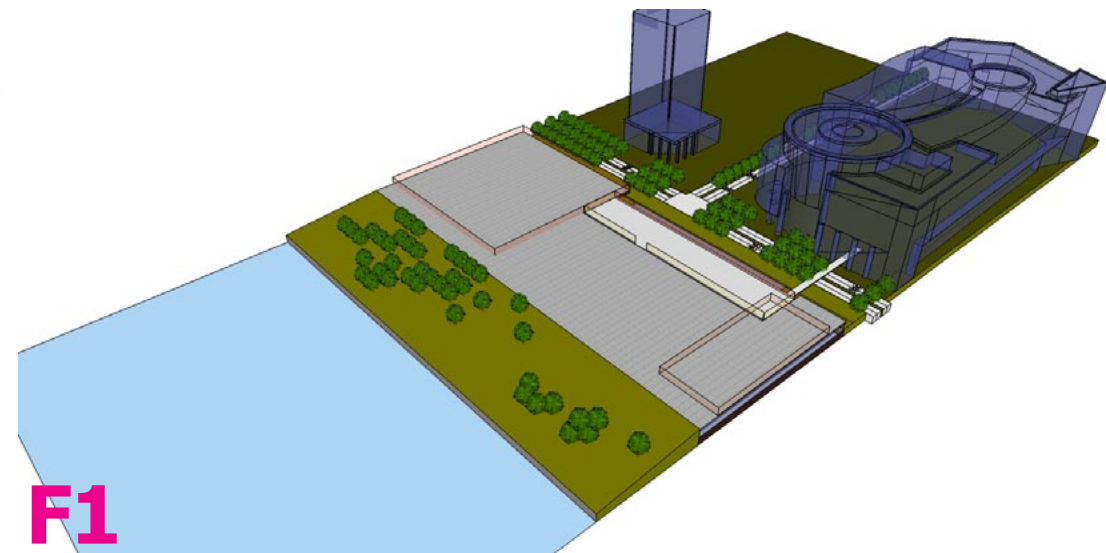
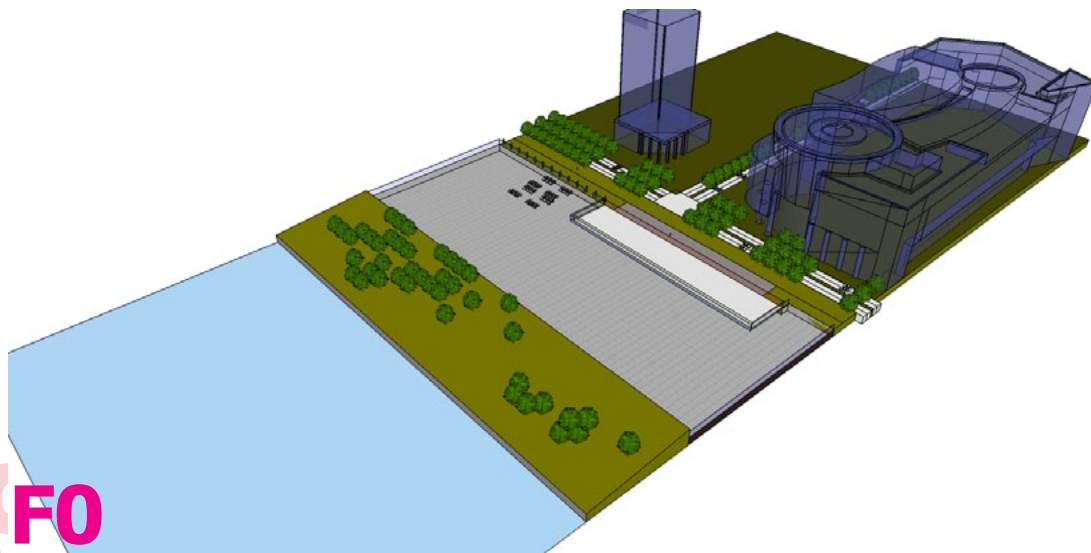
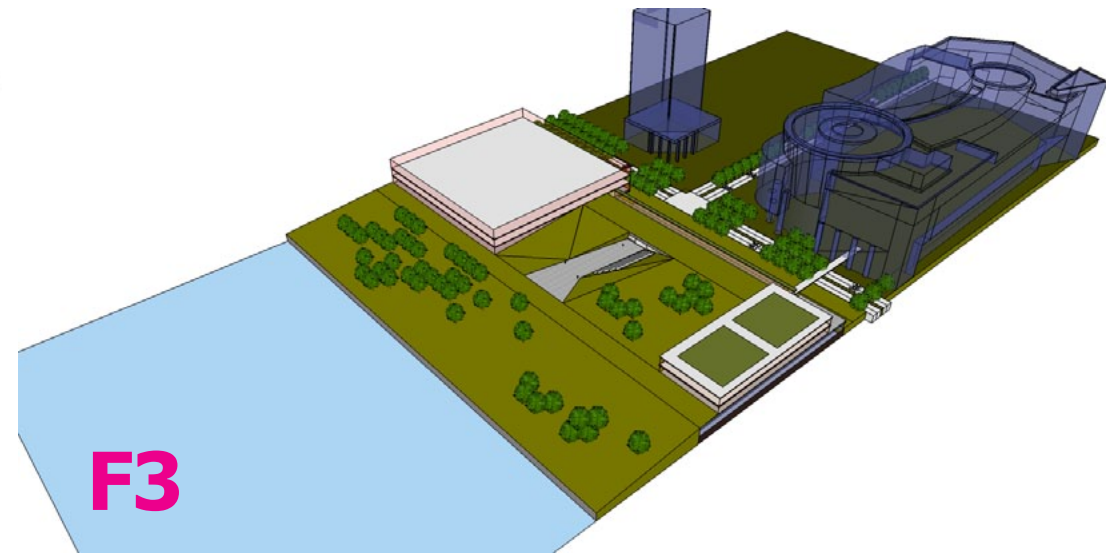
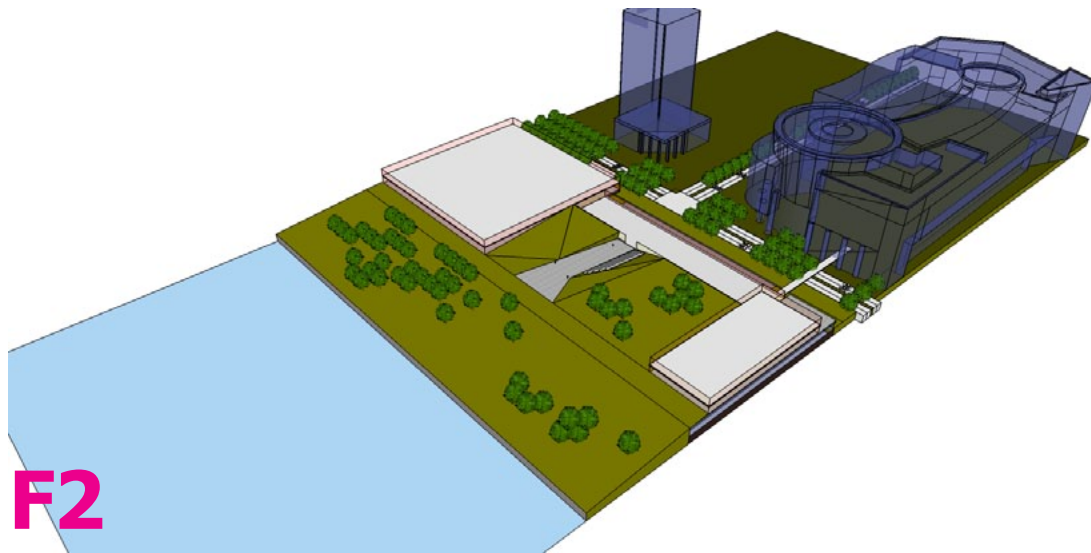
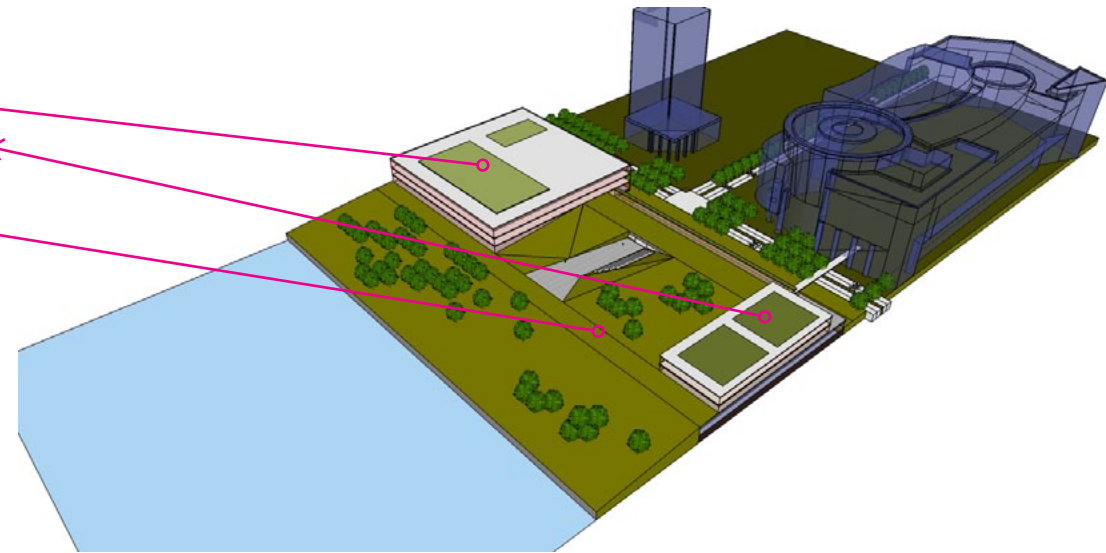
ART DISTRICT

MOCA: 40,000 m²

Cultural Institution: 10,000 m²

Open-air Museum: 8,000 m²

Parking: 20,000 m² 1000cars



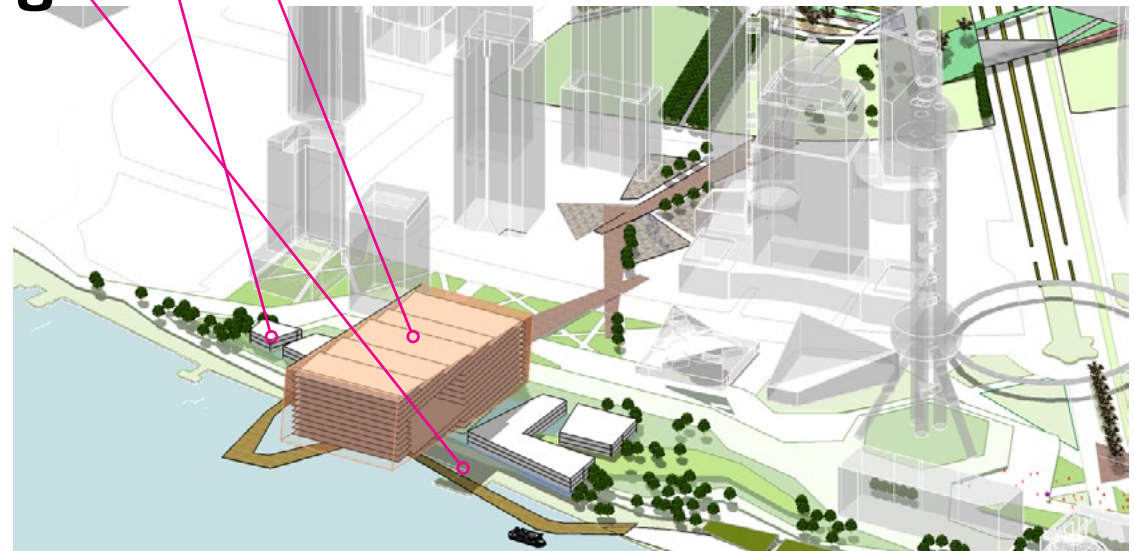
THEATRE DISTRICT

Theatre of Local Operas: 80,000 m²

Troupe, Art Institution: 30,000 m²

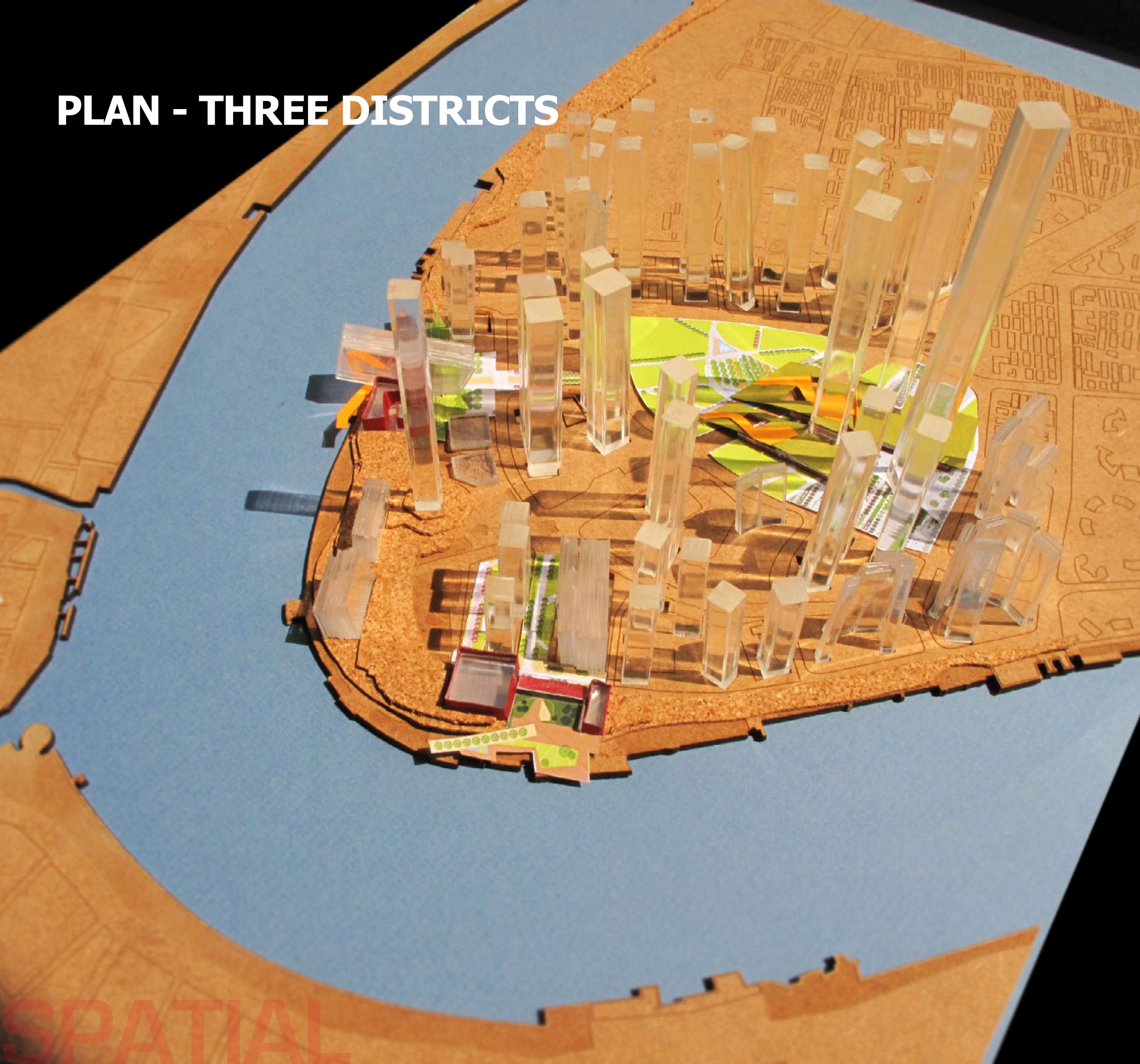
Retail, Restaurant, Bar:

parking: 20,5000 m² 1250 cars



SPATIAL

PLAN - THREE DISTRICTS



SPATIAL

2. WATERFRONT



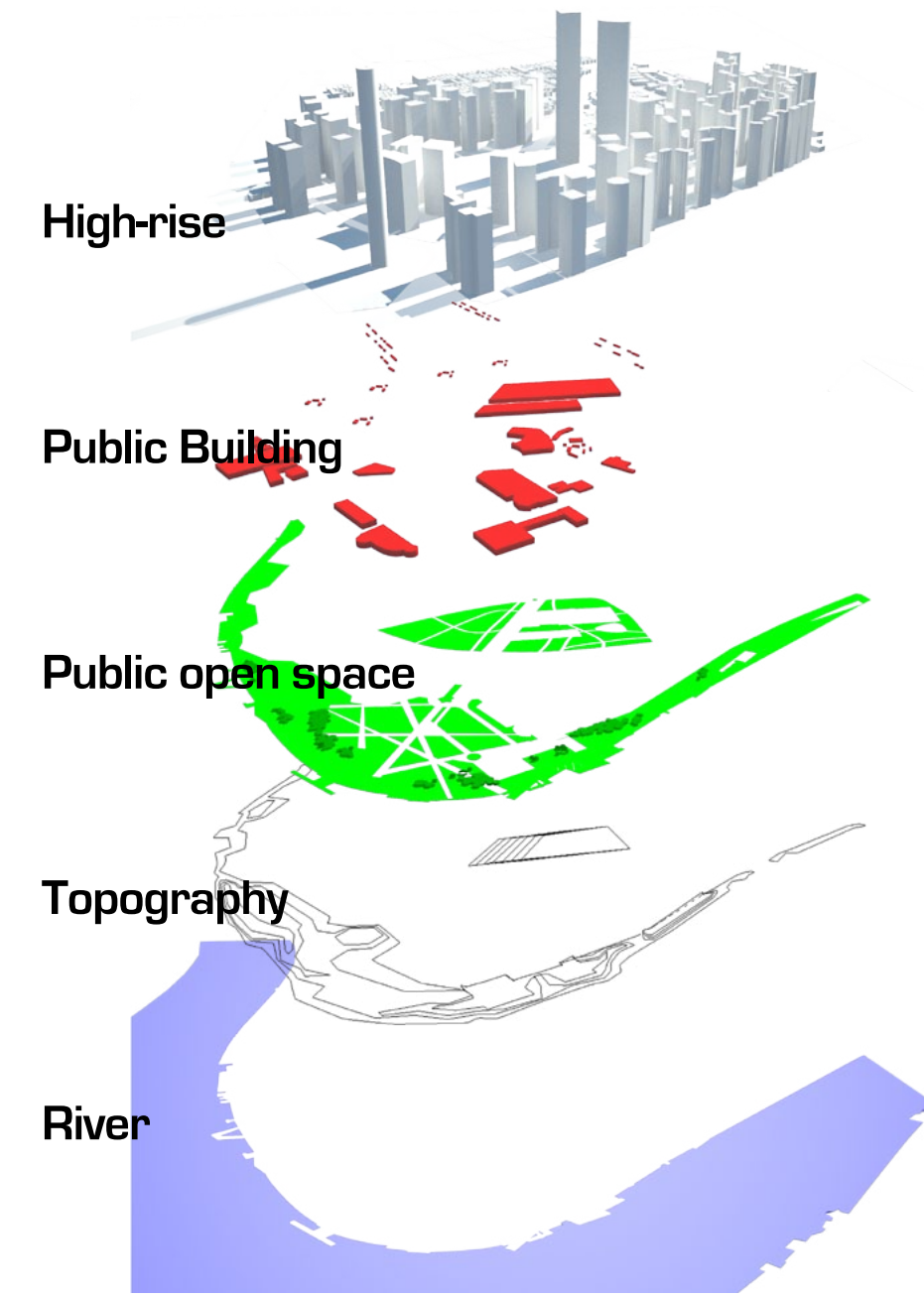
500m



GRAY SPACE



WATERSIDE



DESIGN WITH LAYERS



Ferry Terminal



Theater

FILM MUSEUM, AMSTERDAM



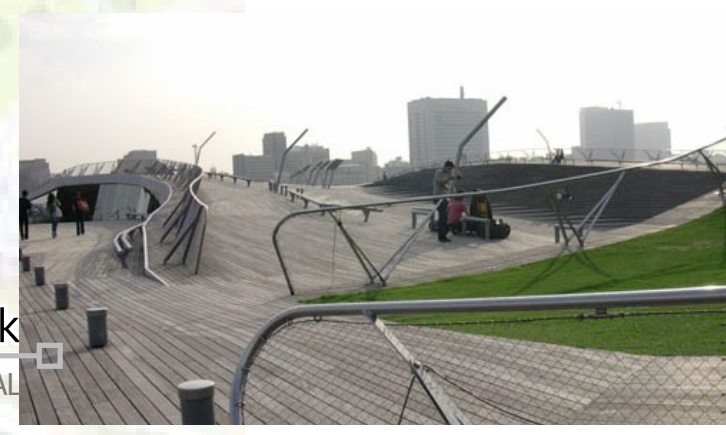
Dongyuan Square

GRAND CANAL SQUARE DUBLIN

Bailing Park



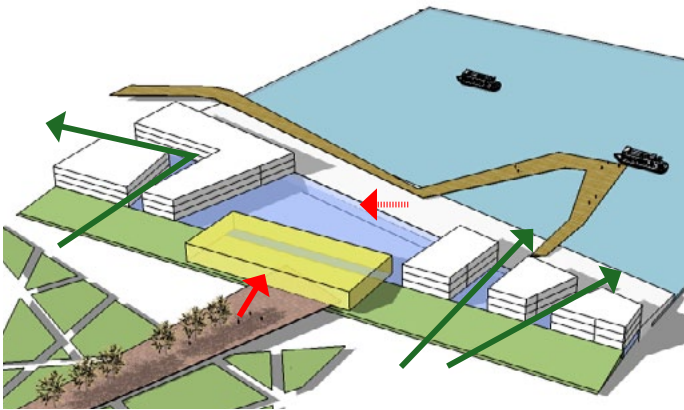
B'



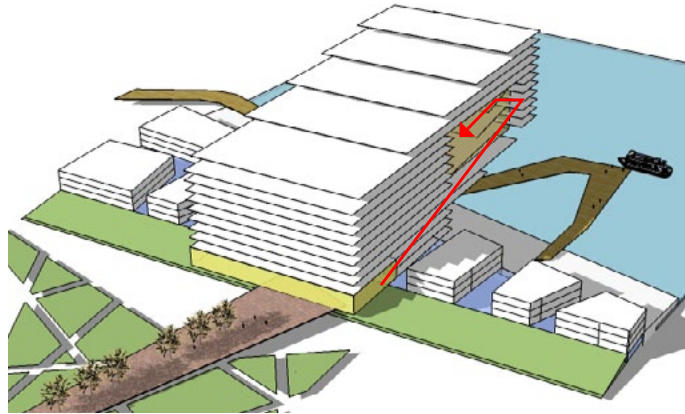
Sundeski

YOKOHAMA FERRY TERMINAL

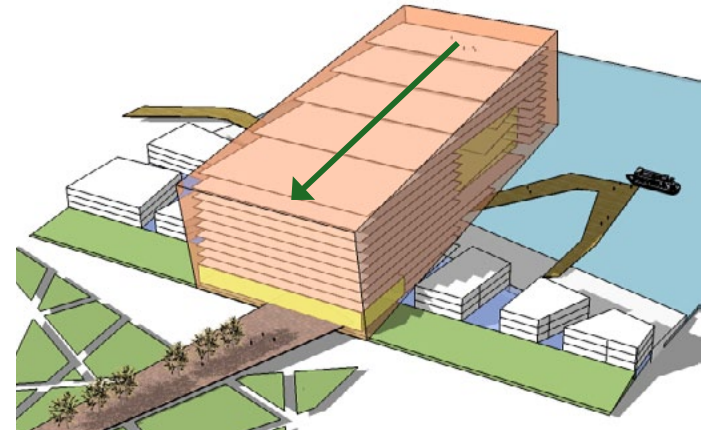
SECTION OF THEATRE



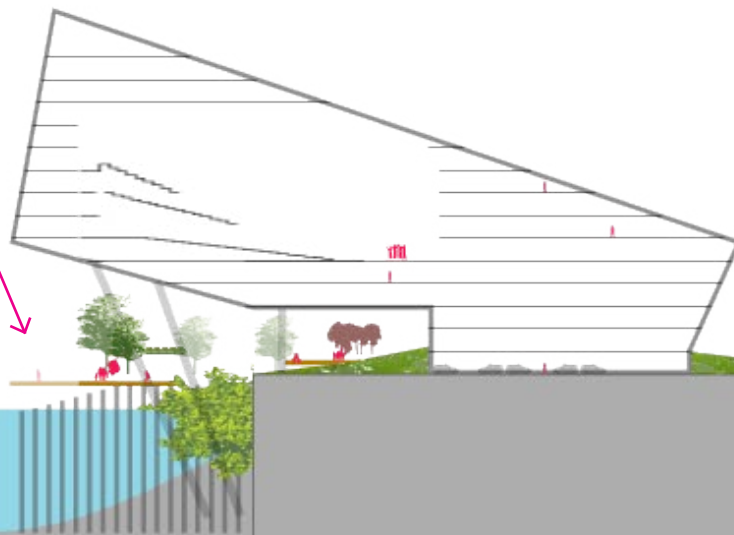
Entrance hall & art institutions



Theater hall & Path

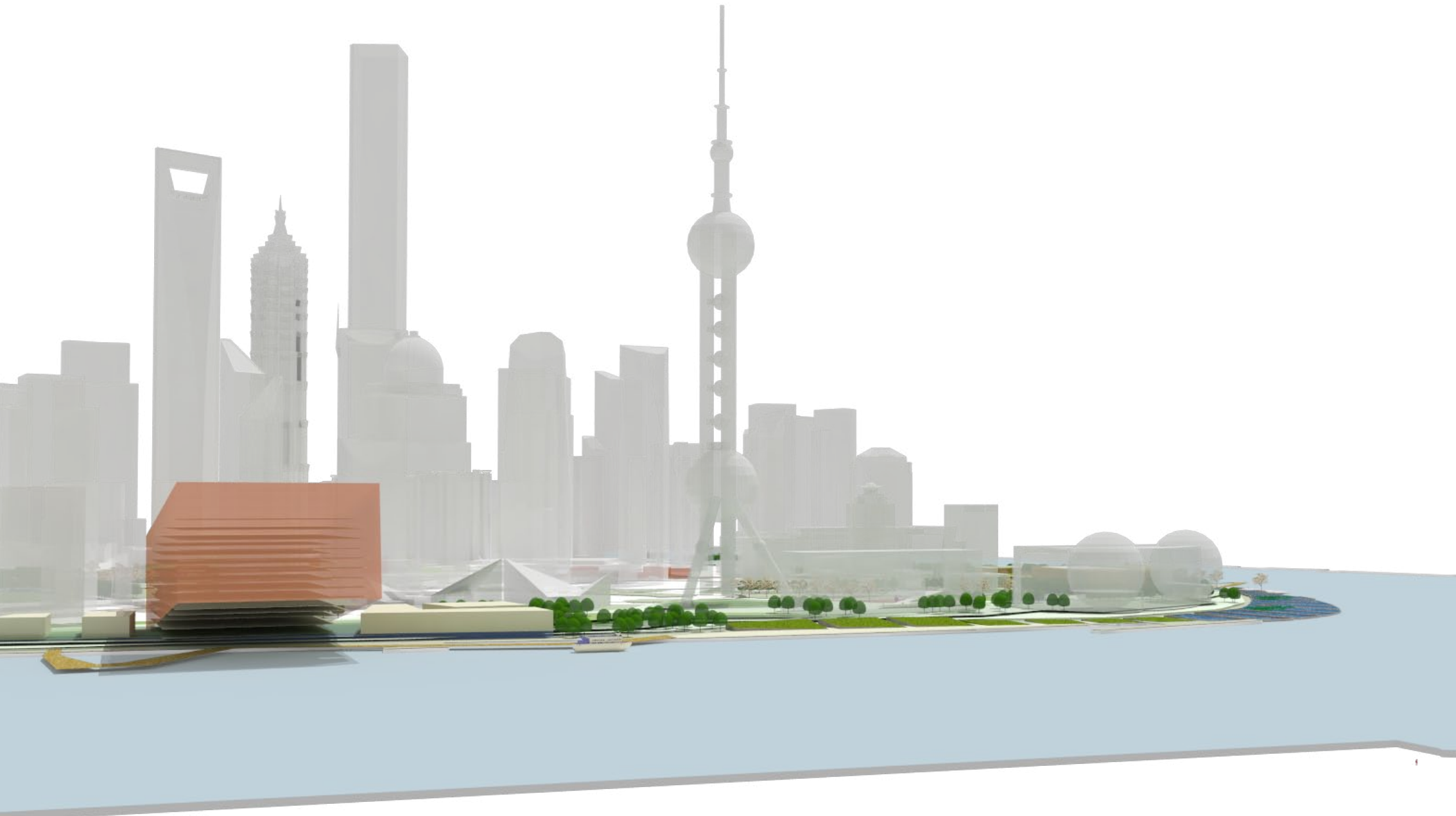


Platform on Roof



Section B-B'

SKYLINE (LOOK FROM THE NORTH BUND)





Batture

Conference Center

Performance Lawn

Urban Planning
Exhibition Center

Oriental Pearl TV Tower

Pearl Park

Bosk in Pearl Park

MOCA Museum

ZhengDa Emporium

MOCA Park

SOM . HARGREAVES . BIG

Sculpture Garden

OLYMPIC SCULPTURE PARK, SEATTLE



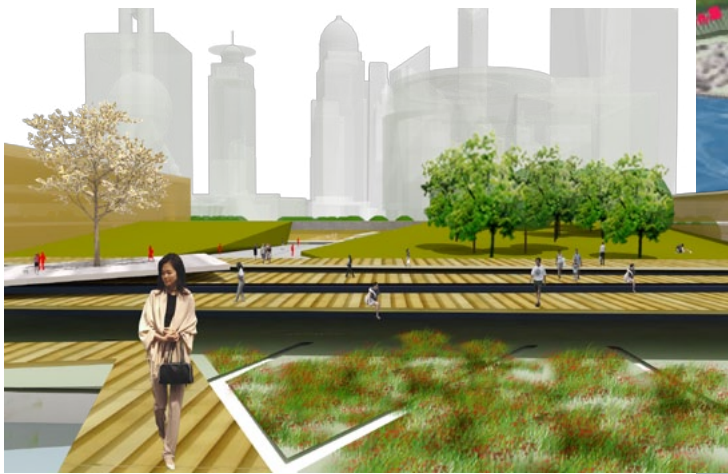
PEARL PARK



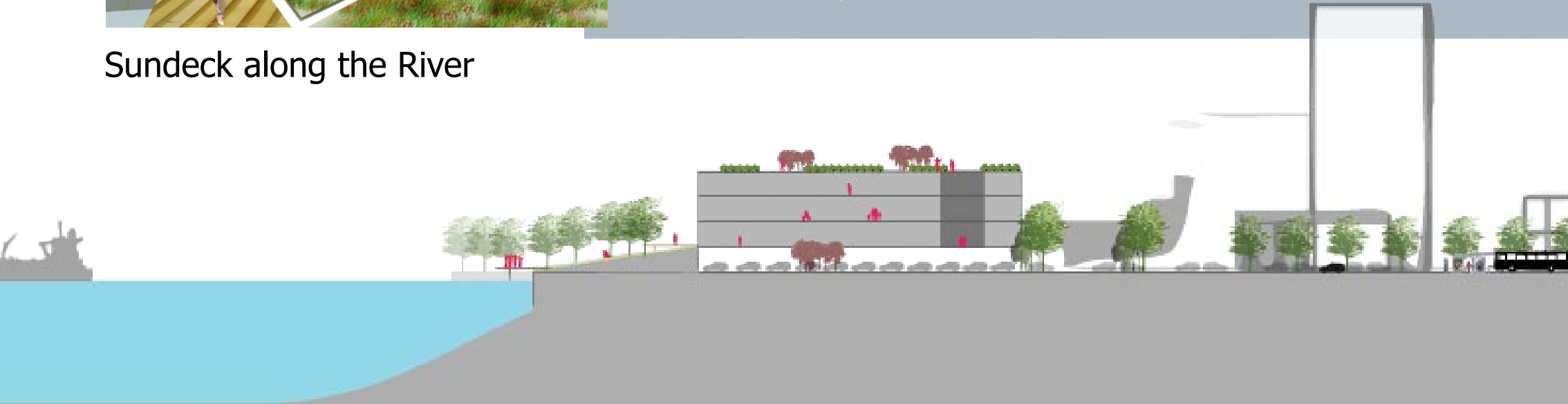
SECTION OF MUSEUM



Platform in MOCA Park



Sundeck along the River



Ferry Terminal

Sculpture Garden

OLYMPIC SCULPTURE PARK, SEATTLE



Avenue

Swimming Pool

COPENHAGEN HAVNEBAD



Stage

TORONTO CENTRAL WATERFRONT



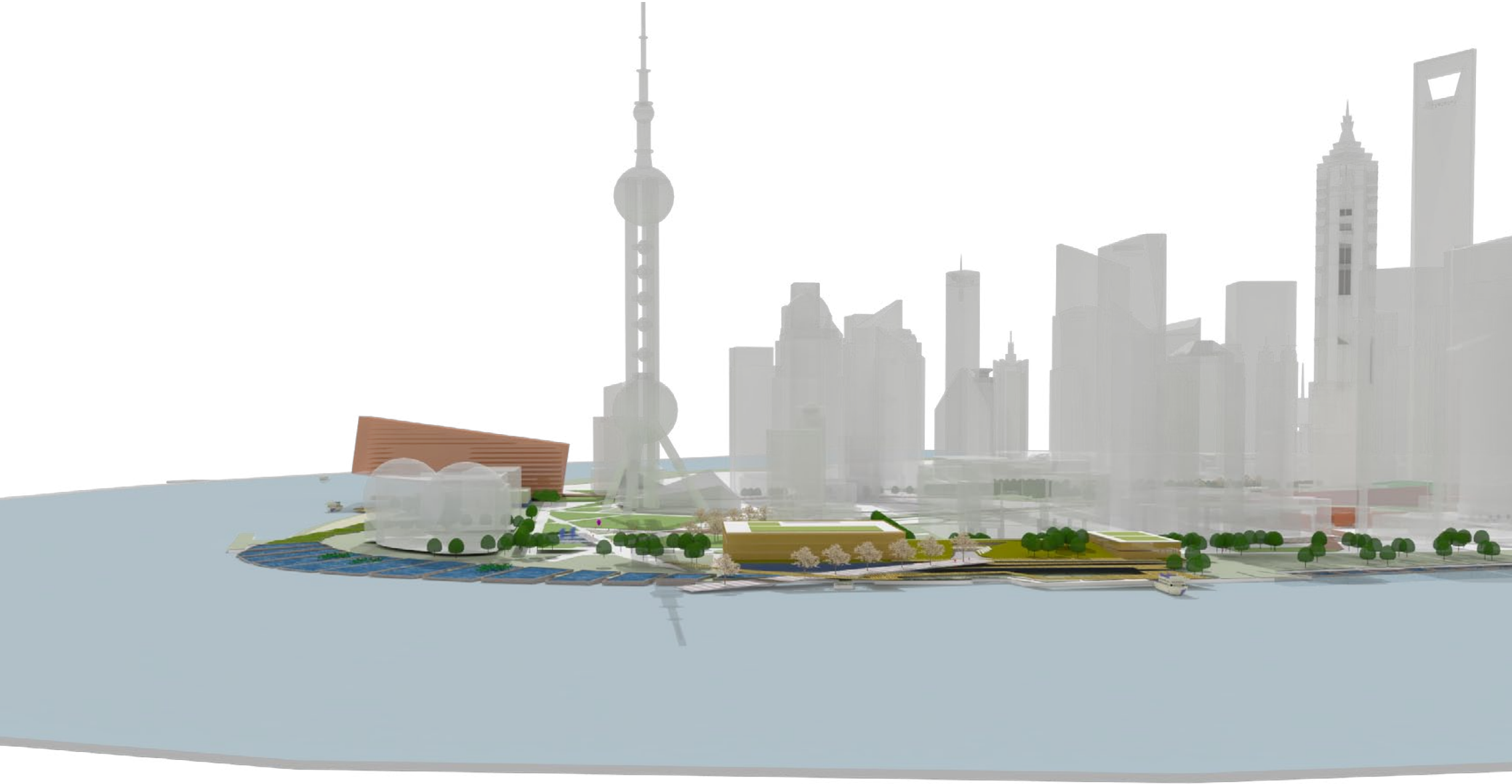
Perched Marsh

NEW ORLEANS RIVERFRONT



Ferry Terminal

SKYLINE (LOOK FROM THE BUND)



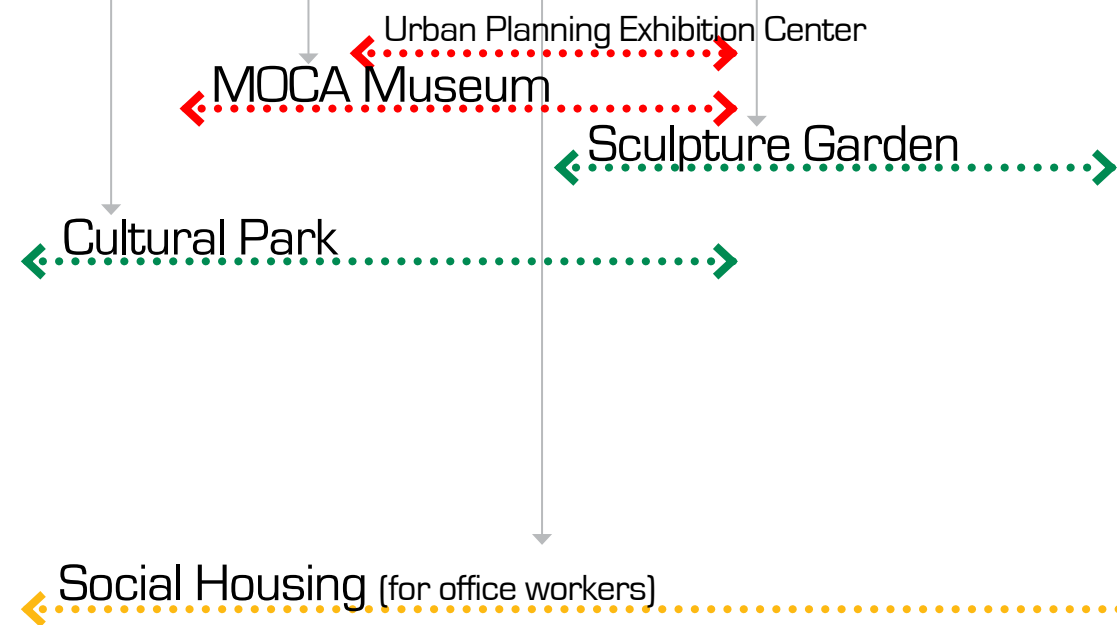
Phasing

Stage 1

identification & preparation

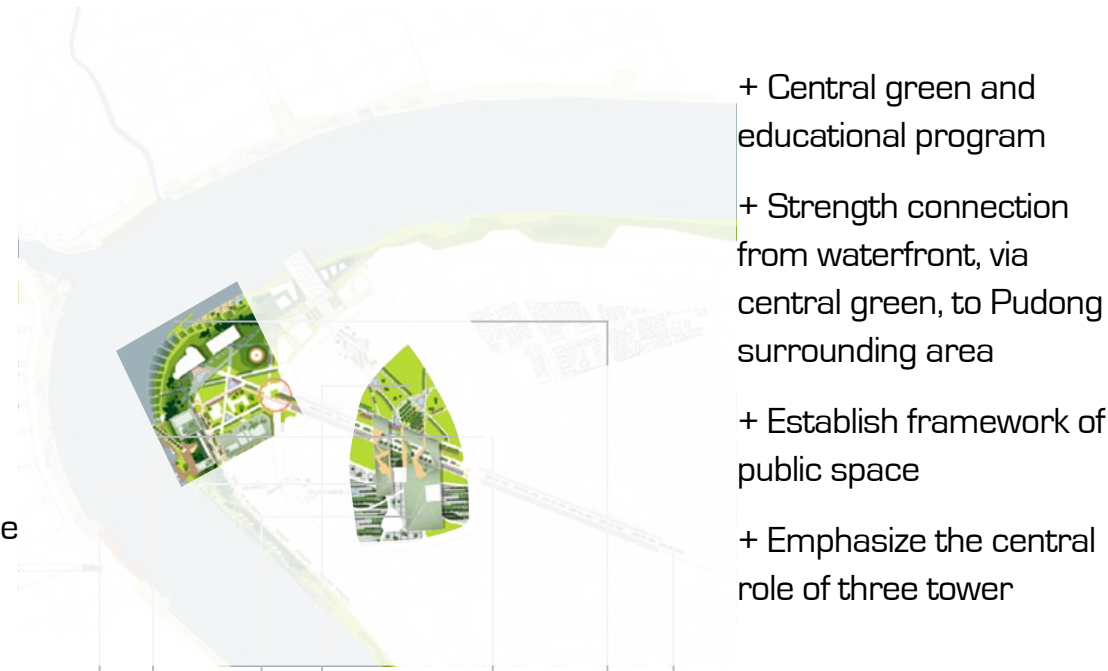


- + First show of "open pudong"
- + Cultural attractions
- + Tourism attractions and routes
- + Active commercial function
- + Social housing for office workers

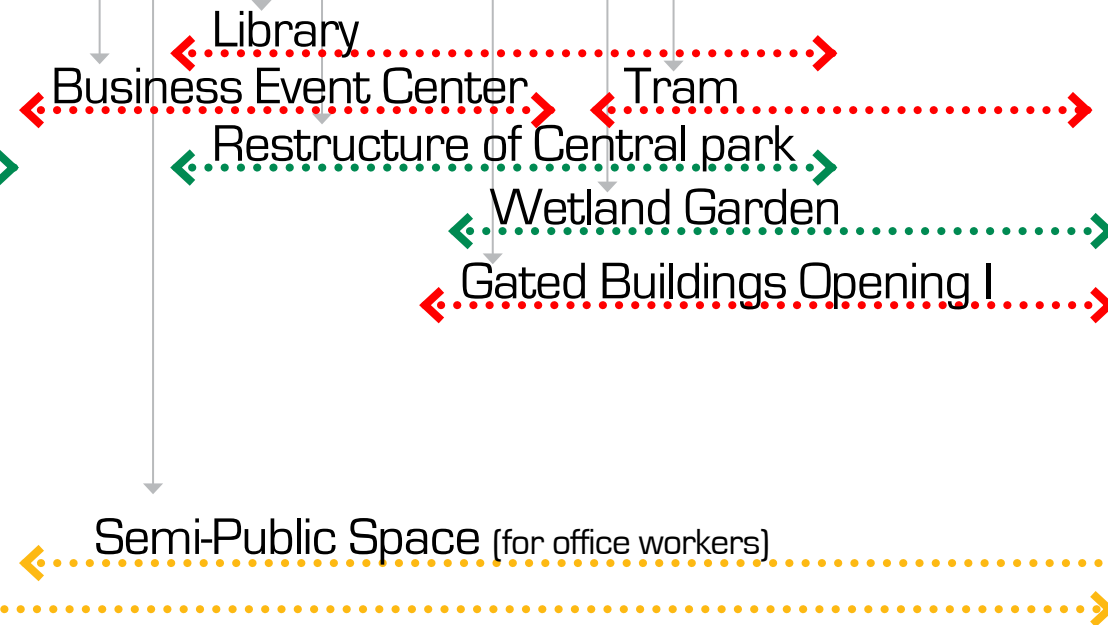


Stage 2

frameworks & connection



- + Central green and educational program
- + Strength connection from waterfront, via central green, to Pudong surrounding area
- + Establish framework of public space
- + Emphasize the central role of three tower

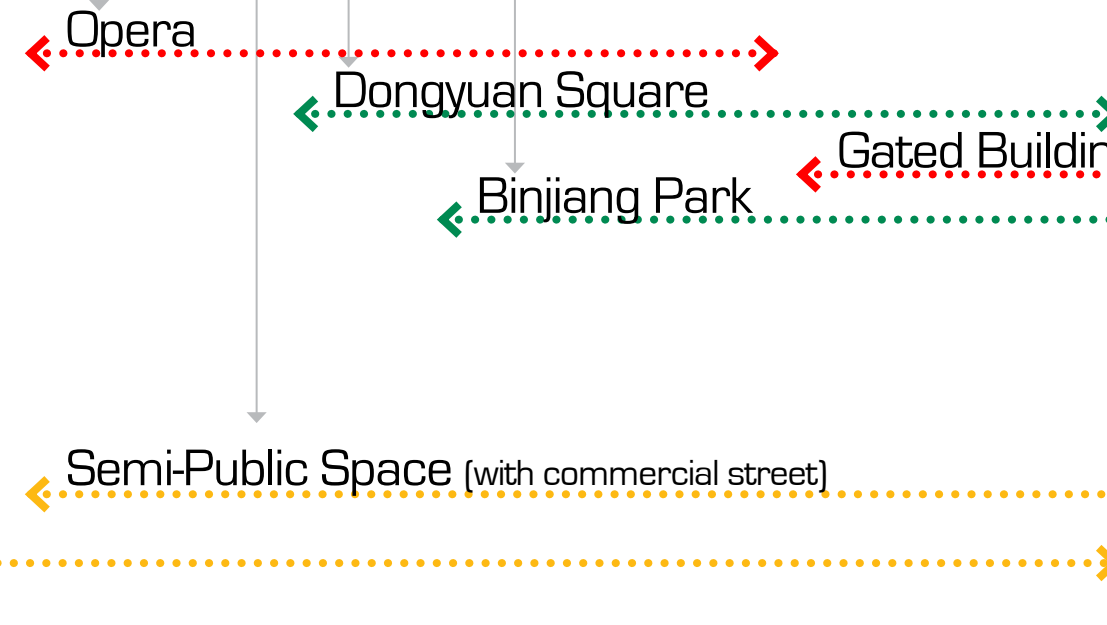


Stage 3

completion & accessibility



- + Complete the strategy planning
- + Opera and leisure park
- + Ferry to the North Bund
- + Binjiang park: beautify the skyline and complete the river bank design

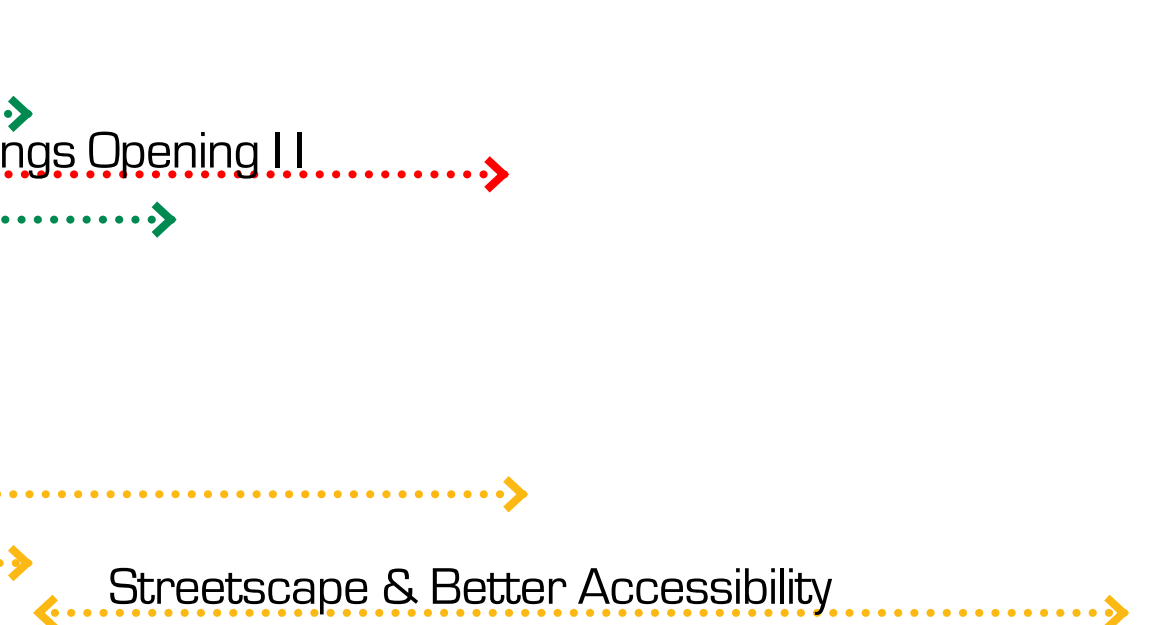


Stage N

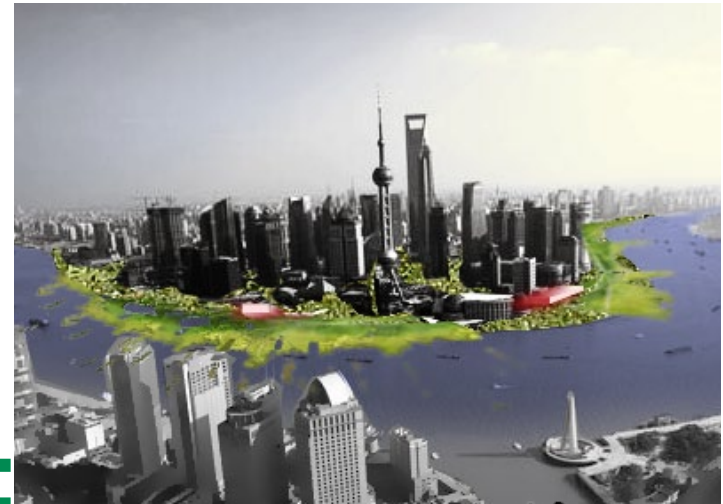
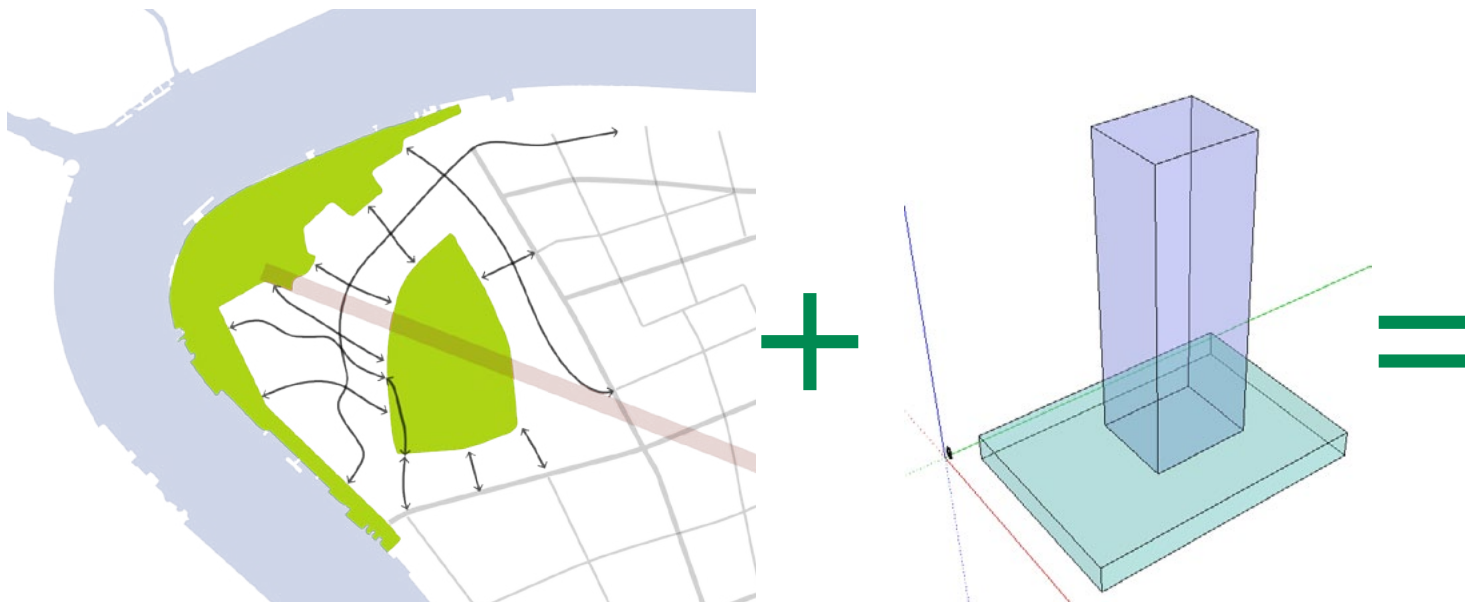
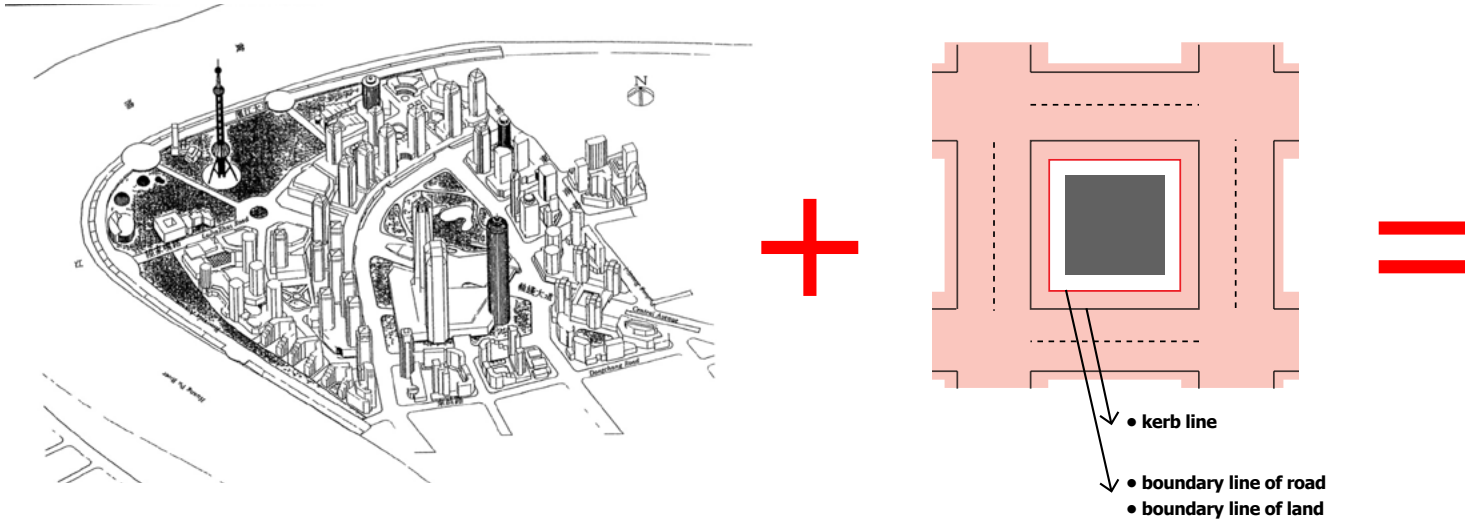
elaboration & adaptation



- + Management and event planning
- + Feedback and redesign
- + Strength accessibility of public space



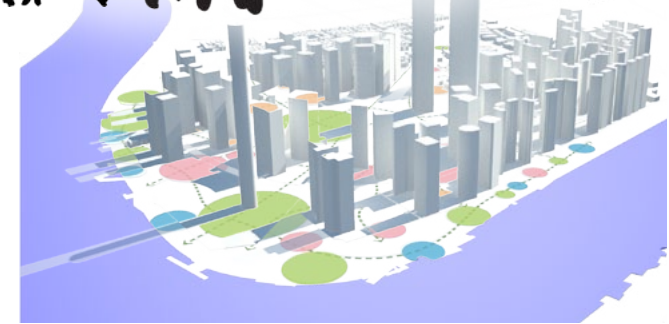
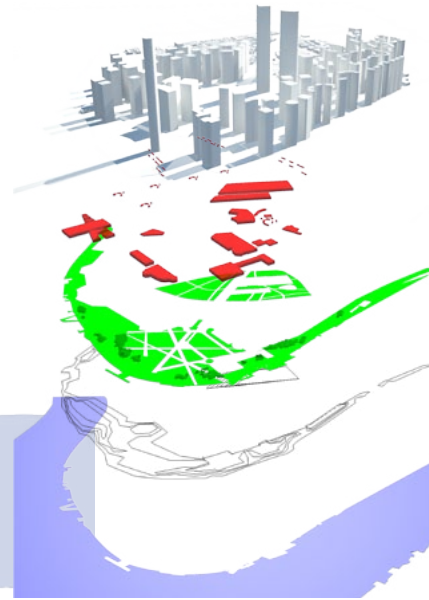
NEW PPP DEVELOPMENT MODEL



PHASING

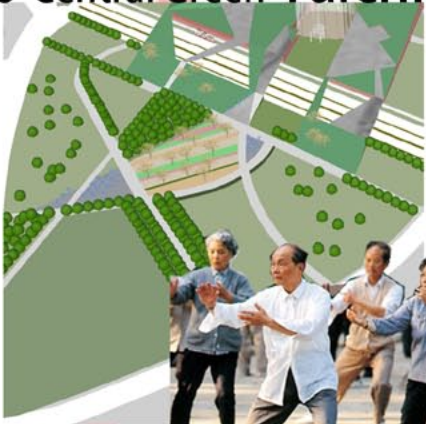
Better City!
Better Life!

REVIEW



DESIGN→ STRATEGY→ VISION

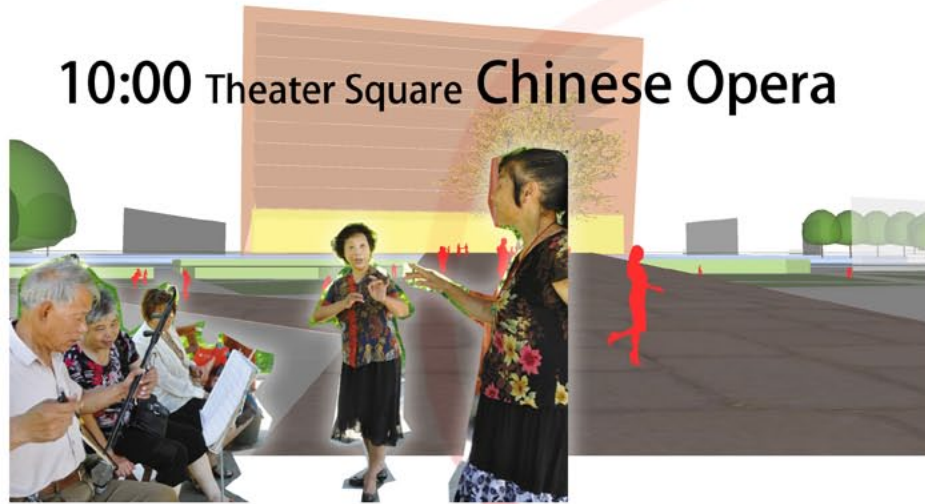
6:30 Central Green Taichi



7:30 Morning Market



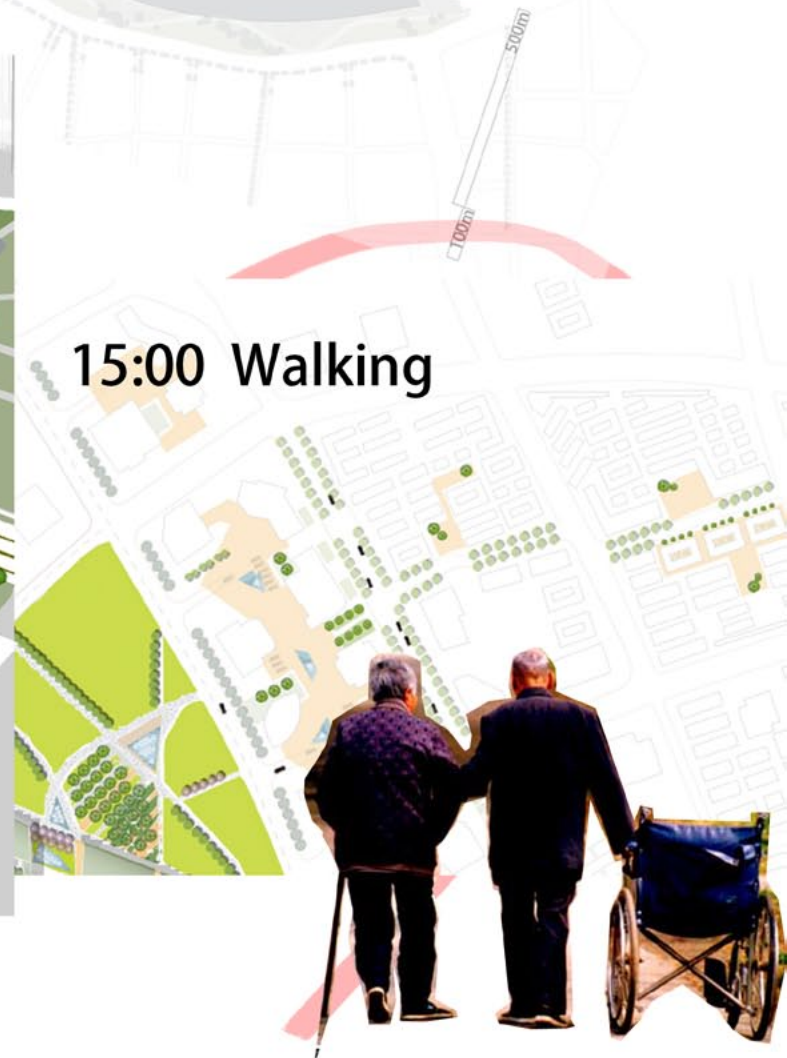
10:00 Theater Square Chinese Opera



15:00 Library Reading



15:00 Walking



● 8:30 Central Green On the Way



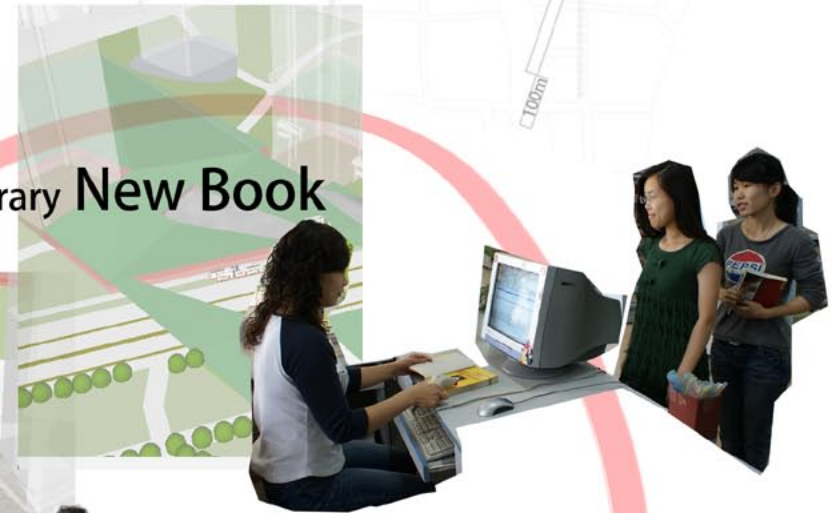
● 10:30 Green Roof Coffee



● 12:00 Platform Lunch Time



● 17:00 Library New Book



● Friday 18:00 Friends Meeting Shopping Fun



THANKS~!

RE-PUBLIC CITY

A strategic planning of public space for local people in the context of globalization
in Shanghai Lujiazui Finance & Trade Zone

Xiao LIANG

4033647, Smart.liangx@gmail.com

Complex Cities, Faculty of Architecture, TU Delft

Mentorship:

First mentor: Francisco Colombo

Second mentor: Luisa M. Calabrese