

# Portfolio

master of urban development and design

Huang Yawen





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# UDES0001 Studio1

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This studio investigates the paradigms and typologies of urban design to develop a vocabulary of urban space upon which design studio projects can be designed. This is integrated with a conceptual project, which provides an initial opportunity to apply what has been learnt to a specific urban setting.

# Cinematic Space

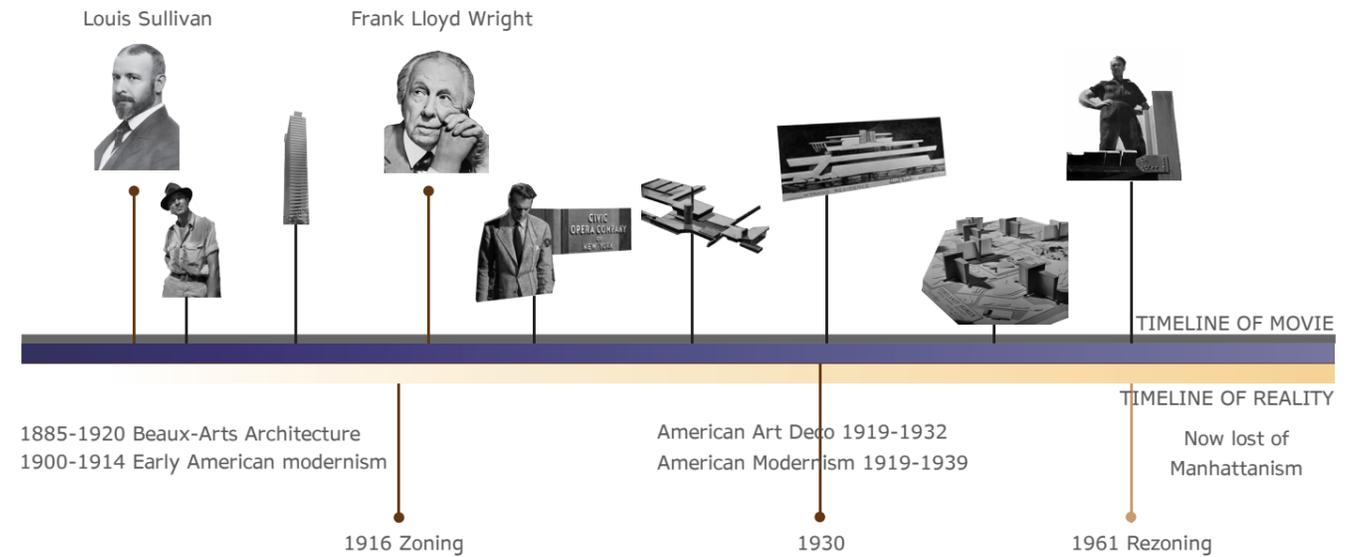
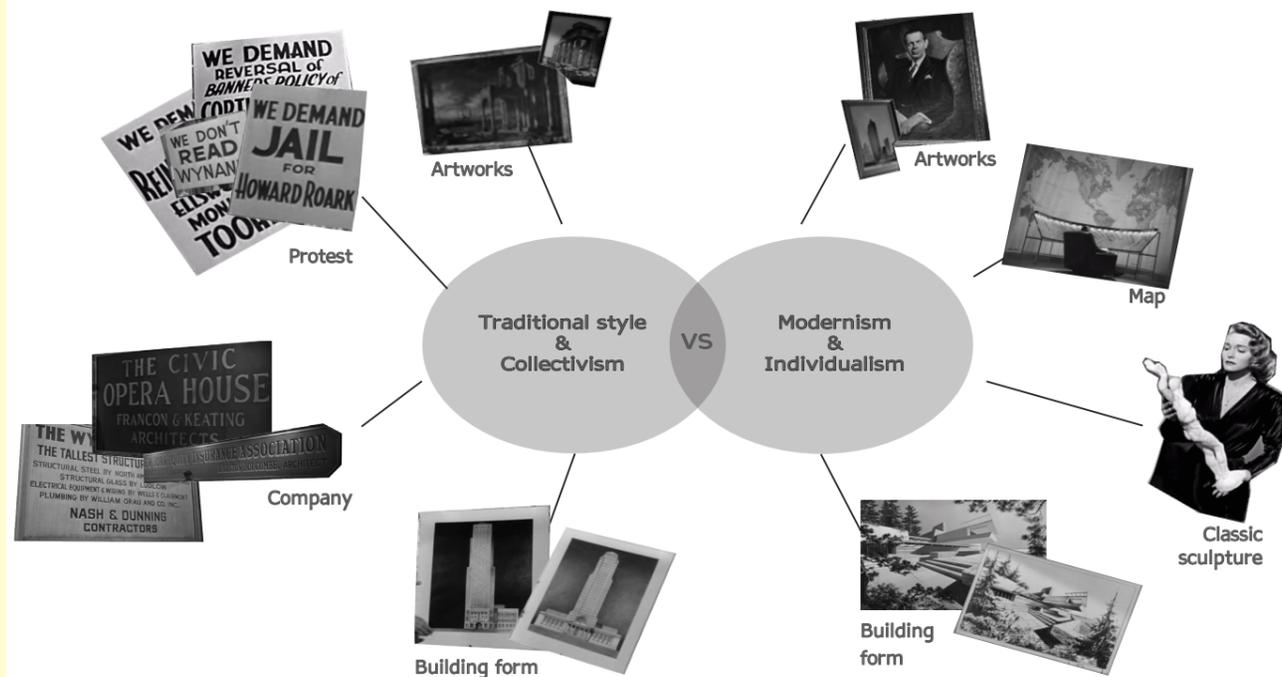
This studio using film as a medium to undertake studies in urban form. It contains a rigorous analysis of the selected film to understand the use of the city in the dramatic structure and the construction of 'cinematic space' in the film. This component explores the dynamic qualities of city space through techniques of cinema and cinematography using clips of the selected film, which capture the social flux and spatial complexity of the modern city.

## The Fountainhead (1949)

Director: King Vidor

### SYNOPSIS

The Fountainhead is a story of Howard Roark, an individualistic young architect who chooses to struggle in obscurity rather than compromise his artistic and personal vision. It follows his battle to practice what the public sees as modern architecture, which he believes to be superior, despite resistance from a traditionally minded architectural establishment.



# Urban Form — West Midtown, New York

New York city (40°30`N-45°1`N) is the most populous city in the United States which located at the southern tip of the state of New York. The climate of the city is generally humid continental. Manhattan is often described as the cultural, financial, media, and entertainment capital of the world. The selected site (west midtown is in the community district 4 and 5 which most of the land use is Transportation and Utility). The street life and the skyline of west side are disturbed by the manufacturing buildings and transport infrastructure as well as the new proposed Hudson Boulevard. The Manhattanism in this area is fading which should be reinforced in the design.

## CLIENTS

This project is prepared as a consultant report to the New York City Planning Department on the re-zoning and redevelopment of Midtown West, Manhattan.

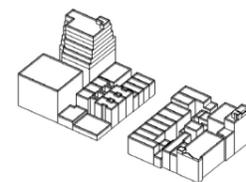
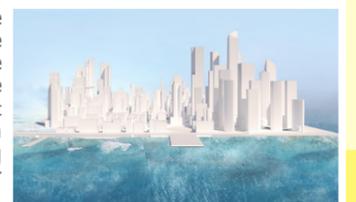
## VISION

The vision of this project is to inherit and enhance the Manhattanism characters, create a vibrant street life and community with sense of place in this area. The scope is redeveloping this area by transfer the air right from available lots and redesign the block with typical building forms.



The representative modern building in movie is Enright house. In the design project, the Hudson Boulevard Proposal project has large number of modern building which could weaken the Manhattan character in west midtown.

The sky line in movie could entirely express the Manhattanism. Because of the Hudson Boulevard project, the skyline in west side do not have the Manhattanism. In design, the selected building type could reflect the character of Manhattanism.



The Hell's Kitchen character in the design area is fading. The buildings with Manhattan character could not survive because replacing by large scale buildings. In the design project, the character of Hell's kitchen could be renewed in 9th Avenue.

The window culture in New York city is sinking especially in Garment district. The window could enhance the viability of street in west midtown. In the design, window culture could be one of method to strengthen the Manhattanism.



Existing Zoning



Proposed Zoning



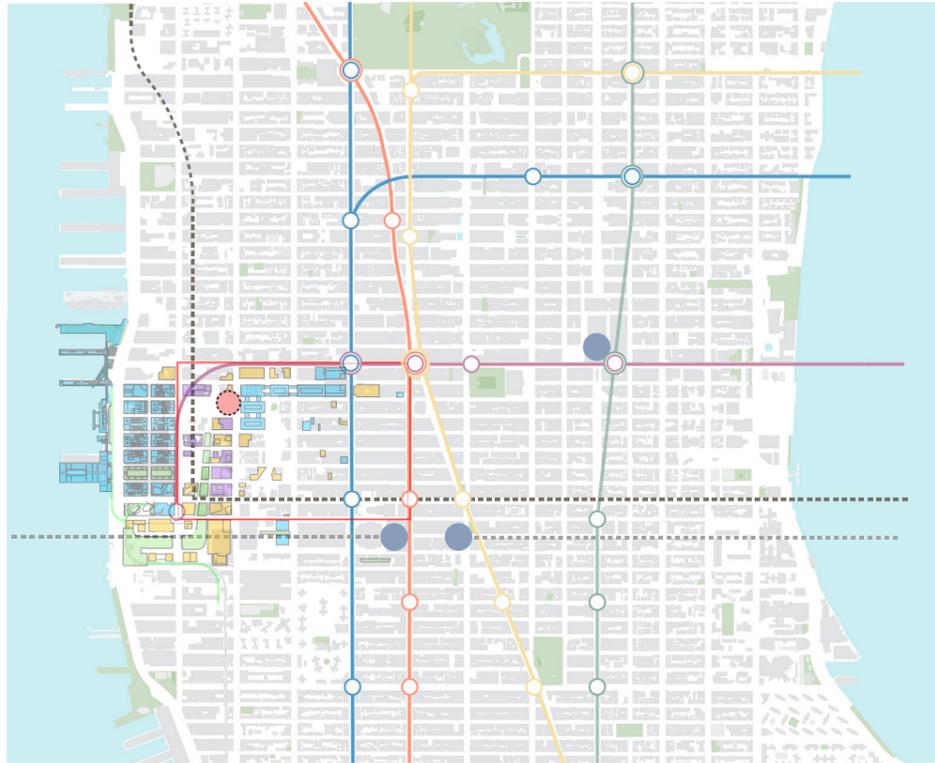
# Urban Form — West Midtown, New York

## ISSUE

- Lost of Manhattanism
- Flat Skyline
- Fading Theater Culture
- Lack of Open Space

## OBJECTIVE

- To redesign the site with Manhattan characters learned from the fountainhead.
- To create great streets to link garment district with Javits Center from east to west to water and link new Port Author Bus Terminal to Penn station from north to south.
- To form high quality residential communities with great neighborhood and continues small open space for people working in and around the site.



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**UDES0003**

## **International Studio**

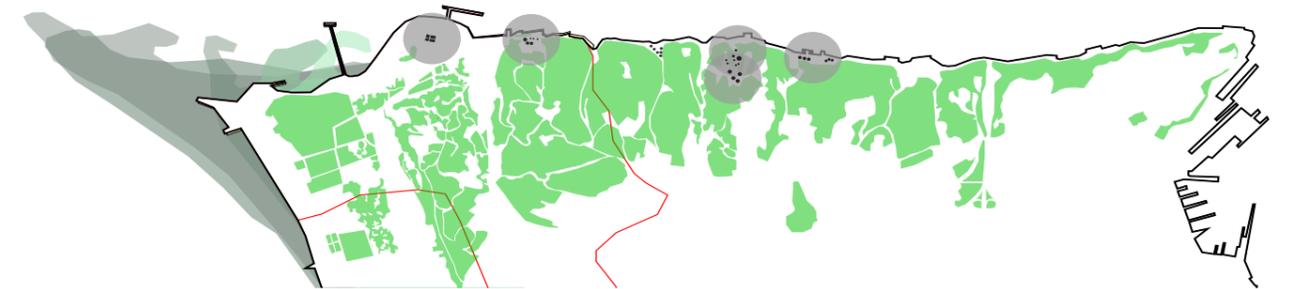
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The studio focuses on major urban projects in international cities. The location of the city will vary each year and involve 2 alternative locations. Central to the studio is developing an understanding of the urban context in socio-cultural, political, economic and environmental terms through expert briefings and field investigations, together with consideration of these factors in the urban design process and creative design outcomes. The studio normally involves two weeks of intensive overseas studio and field work (sometimes in collaboration with a local university or city agency) followed by 5 to 6 weeks of studio work back in Australia.

# Trafaria, Lisbon — Eco City



Trafaria is located in the municipality of Almada within the metropolitan area of Lisbon. It is 5.73km<sup>2</sup> in size and has 5696 inhabitants (2011). The population has decreased over the past decade. It is located on the south bank of the Tagus River between Bico da Calha and Portinho da Costa . It is connected to the main urban areas of Lisbon on the north bank of the river only by a ferry service. Beside the town of Trafaria, there are two illegal settlements which will be affected by climate change and sea level rise in the future.



Important Industrial Element and Sea Level Rising History

Regional Context



OZ oil Container station



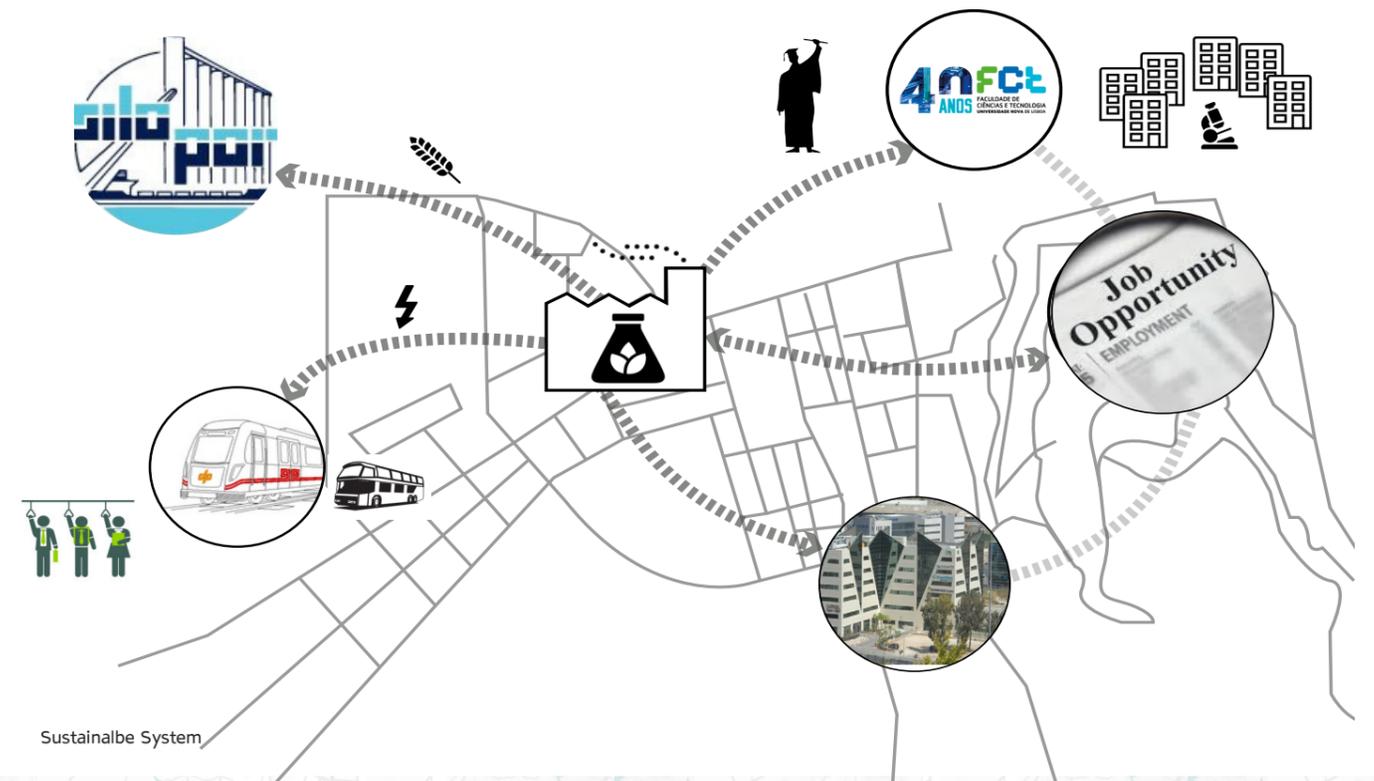
Silopor Cereal Factory



Current Waterfront



Heritage Prison of Trafaria



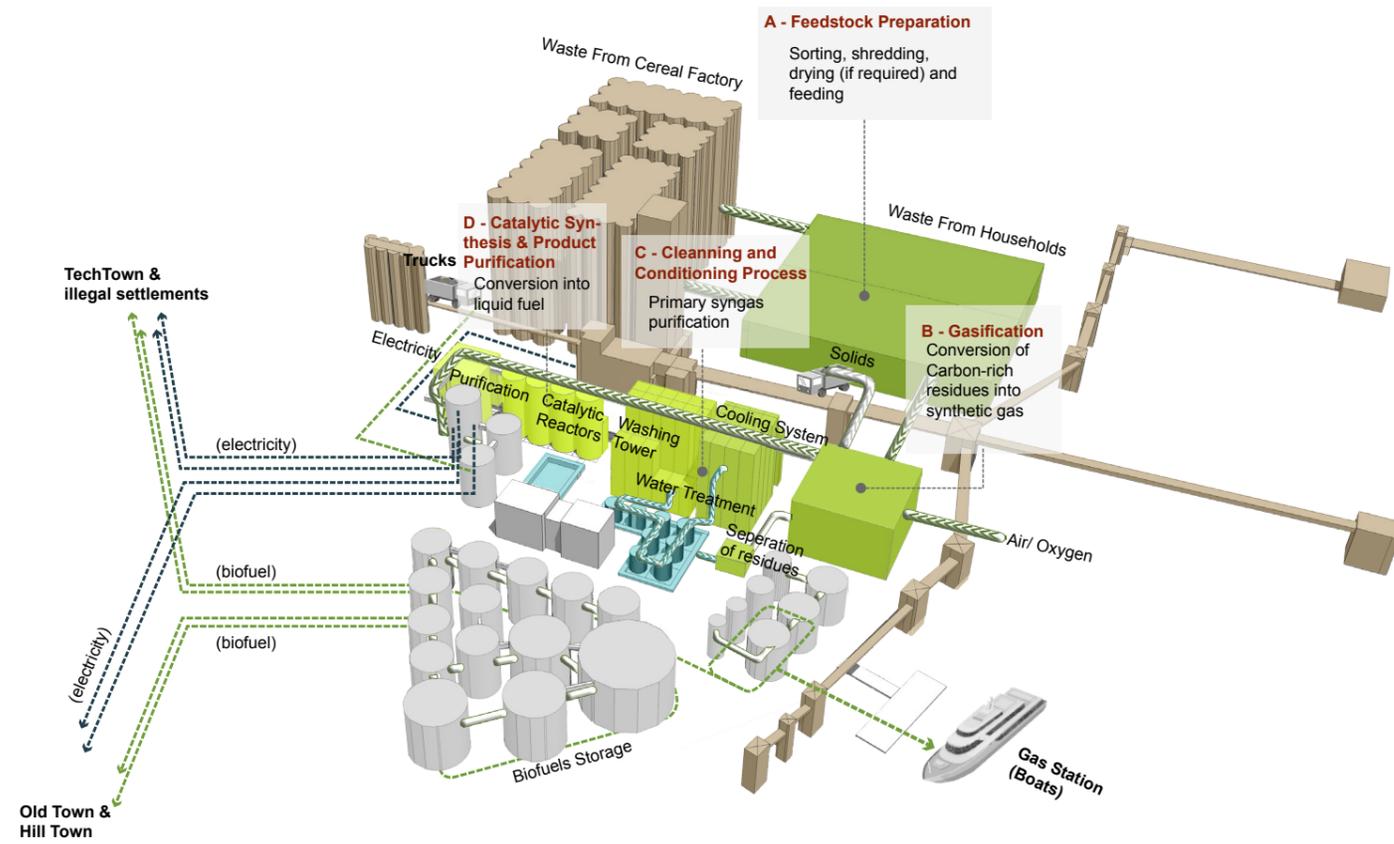
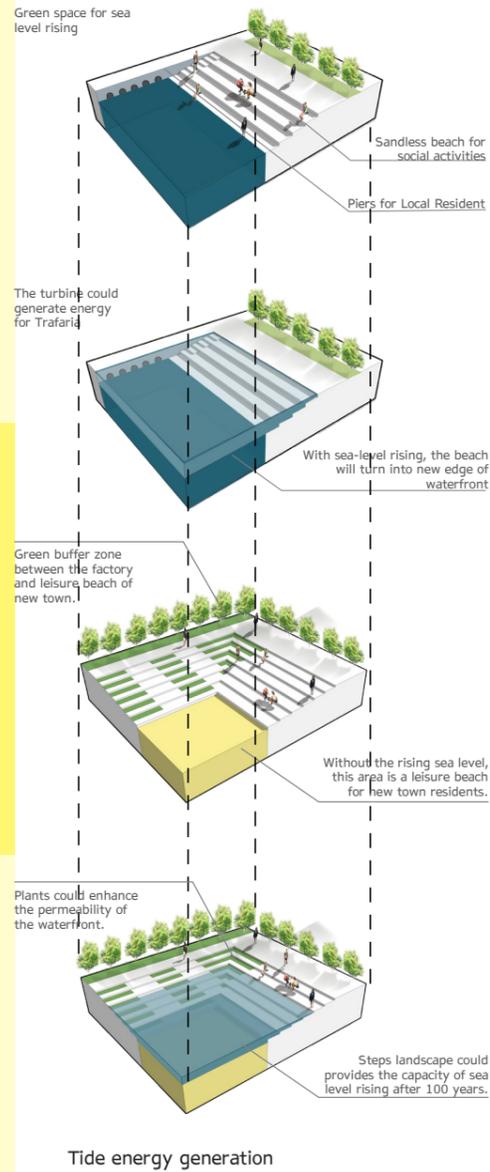
Sustainable System

# Trafaria, Lisbon — Eco City

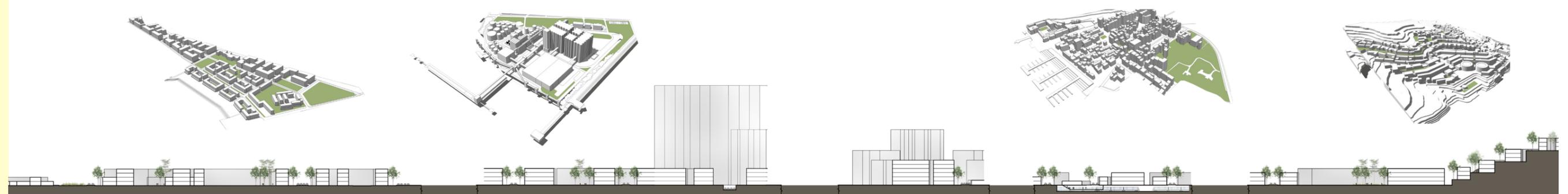


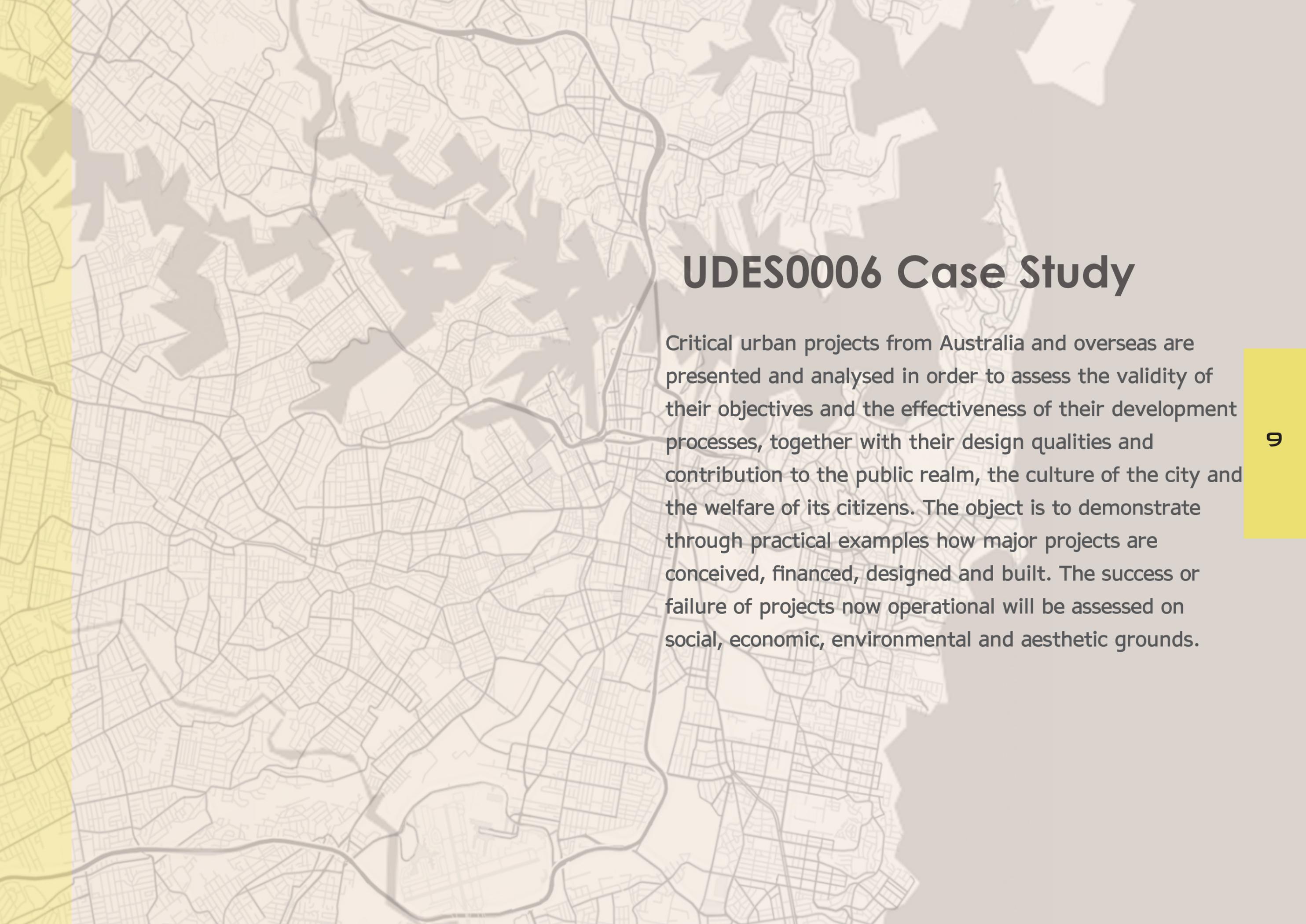
Urban Design Framework

# Trafaria, Lisbon — Eco City



Study Area	Proposed Population	Proposed Job	Total Proposed GFA
95 ha	3359	1400	196,906 m <sup>2</sup>
<b>Proposed Residential GFA (Hill Town)</b>	<b>Proposed Residential GFA (Tech Town)</b>	<b>Total Proposed Residential GFA</b>	
73,609 m <sup>2</sup>	33,913 m <sup>2</sup>	107,522 m <sup>2</sup>	
<b>LNG generated (Liquid Natural Gas)</b>	<b>Electricity Generation</b>		<b>Proposed Consumption of Trafaria</b>
989,641.50 kw·h	989,641.50 kw·h		221,847.5 kw·h





## UDES0006 Case Study

Critical urban projects from Australia and overseas are presented and analysed in order to assess the validity of their objectives and the effectiveness of their development processes, together with their design qualities and contribution to the public realm, the culture of the city and the welfare of its citizens. The object is to demonstrate through practical examples how major projects are conceived, financed, designed and built. The success or failure of projects now operational will be assessed on social, economic, environmental and aesthetic grounds.



# Other works

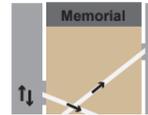
## Urban Patterns

### Memorial in the street

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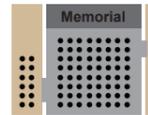
This pattern helps to complete the social life of citizens. And, each time it gets built, it also be a focus of the city.

This memorial is in the George St which is the main street and most busy road in Sydney. However, this memorial which in the intersection between George St and Martin Pl may influence the people flow in rush hour.



#### Business day

The majority of pedestrian would follow the pedestrian lane, but some of them may cut corners as shown in left.



#### The Anzac day

This memorial is in the George St which is the main street and most busy road in Sydney.



#### Behavior Pattern



Waiting  
(1 person)



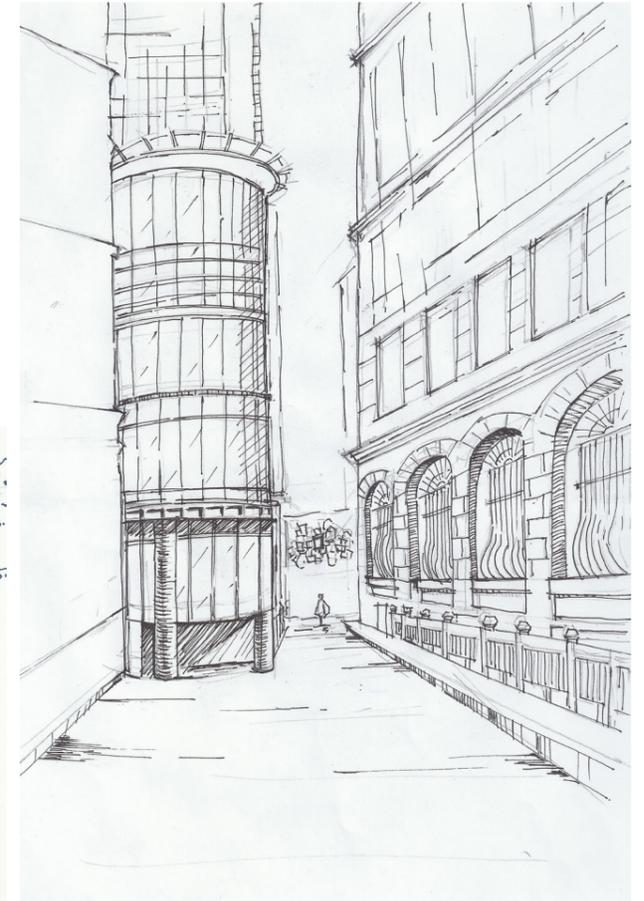
Chatting  
(> 1 person)

Skelping

This area is a city node, which could have different kinds of social activities in it. The most popular three behavior patterns are 'waiting', 'chatting' and 'skelping'.

#### Solution

This area could not use effectively in working day. According to the pattern people cross this area, we could separate it into four pieces, and use stone cubes as urban furnitures to create a suitable environment for citizens. And the ground could use line as a element to guide the passengers.



## Urban Patterns

### Social Space In Service lane

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This pattern offers the offer workers a gathering place for social life. It is essential for the workers to have a private space to share their life.

These spaces in a lane near the George St to the Wynyard Park, in working days, some office worker would gathering here to communicate with each others or have a rest. But the problem is the small and the safety problem of the users.

Beside the City Recital Hall there is another place gathering the office workers. However, the difference between these two places is the workers in this place mostly alone, which might means that this place has not enough place for a group of people.



#### Element



#### Solution

Compare with the original elements, this pattern should strengthen the grey space and add some plants in it to improve it's surrounding environment.



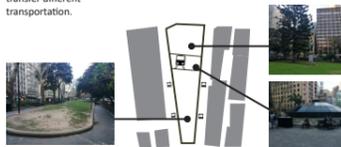
## Urban Patterns

### Junction in Urban open room

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This pattern is a junction of transportation, which offer commuters to transfer different transportation.

The Wynyard station is under the Wynyard park and the bus station is beside it. All the tall buildings around it influence its sunshine and the shape of the park might reduce the effective of this urban open room.



#### Element



Urban furnitures



Green plants



Landmark



Statue of John Dunmore Lang

#### Behavior



Waiting /resting



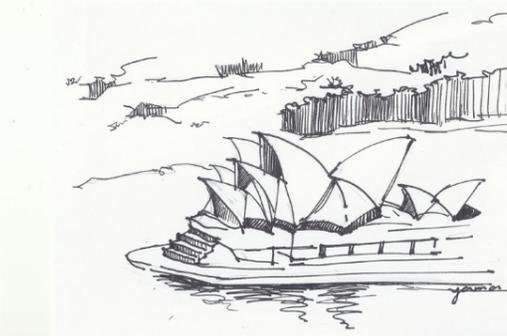
Walking dog



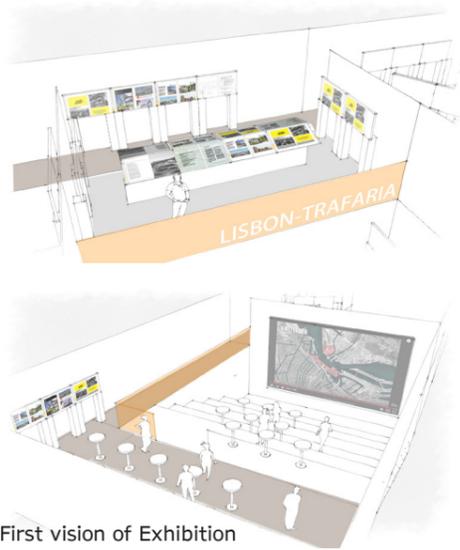
Social activity

#### Solution

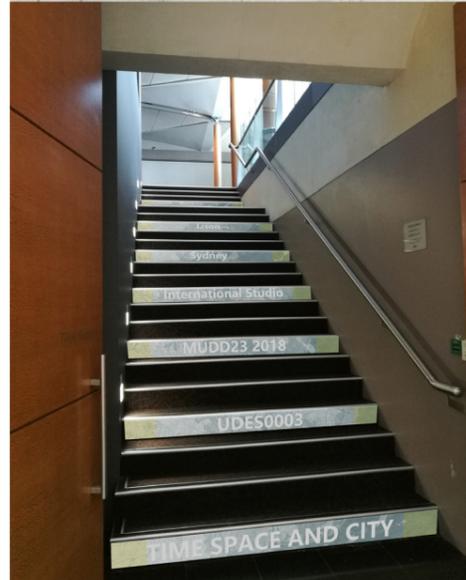
The park should be relocated for different functions(behaviors). As a junction, the most popular behavior is resting and social activities. So create a open space for activity is priority



# MUDD23 Exhibition Design



First vision of Exhibition



Second vision of Exhibition



The Exhibition Day



International group members with panel



Second vision of Exhibition

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Final vision of Exhibition