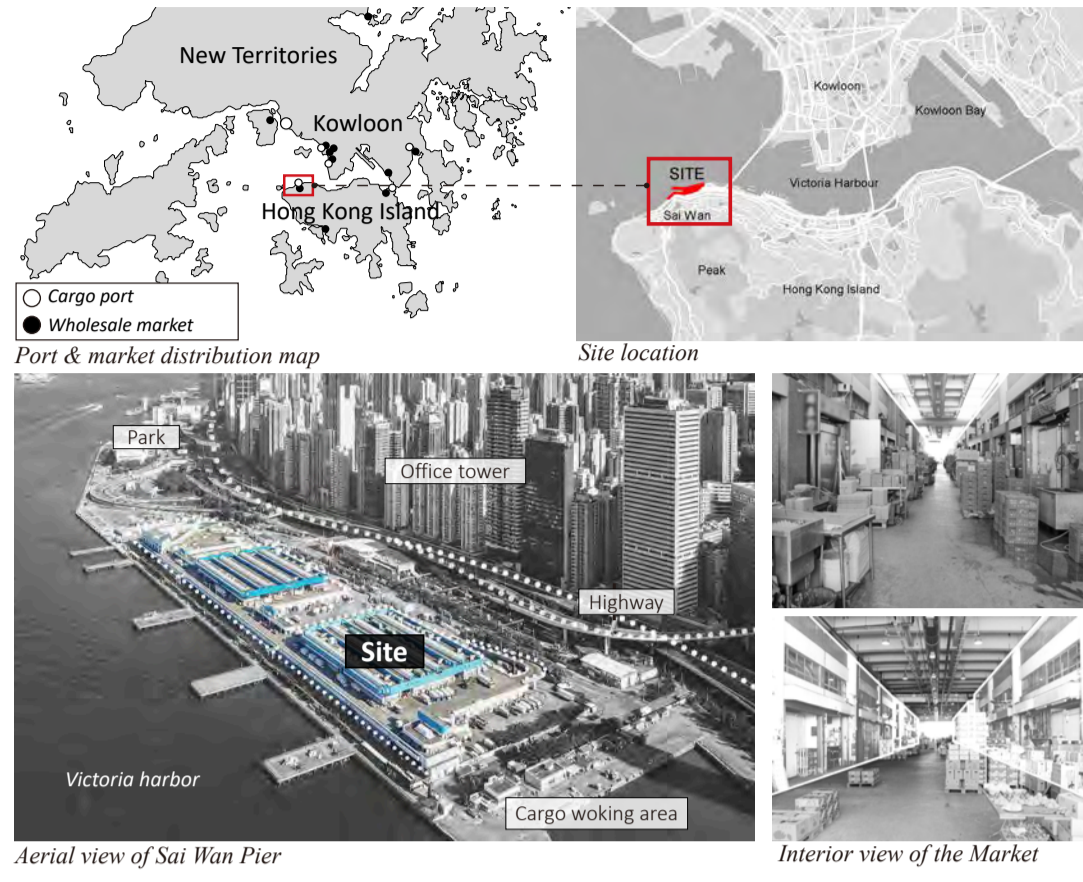


# Satellite Campus Proposal for University of Hong Kong Integrating with Redevelopment of Industrial Area at Sai Wan Pier

## Introduction

With the industrial readjustment, most of Hong Kong's city ports were abandoned and facing functional repositioning. The site is located at Sai Wan pier, an industrial area occupied by a wholesale market and cargo ports suffering from vacancy problem. Meanwhile, the University of Hong Kong, located on the hillside in this area, is short of development space. As both of them are separated from the city, there is potential of renovating the existing wholesale market into a new campus on the harbourfront to establish close relationships between harbour, university, and city.

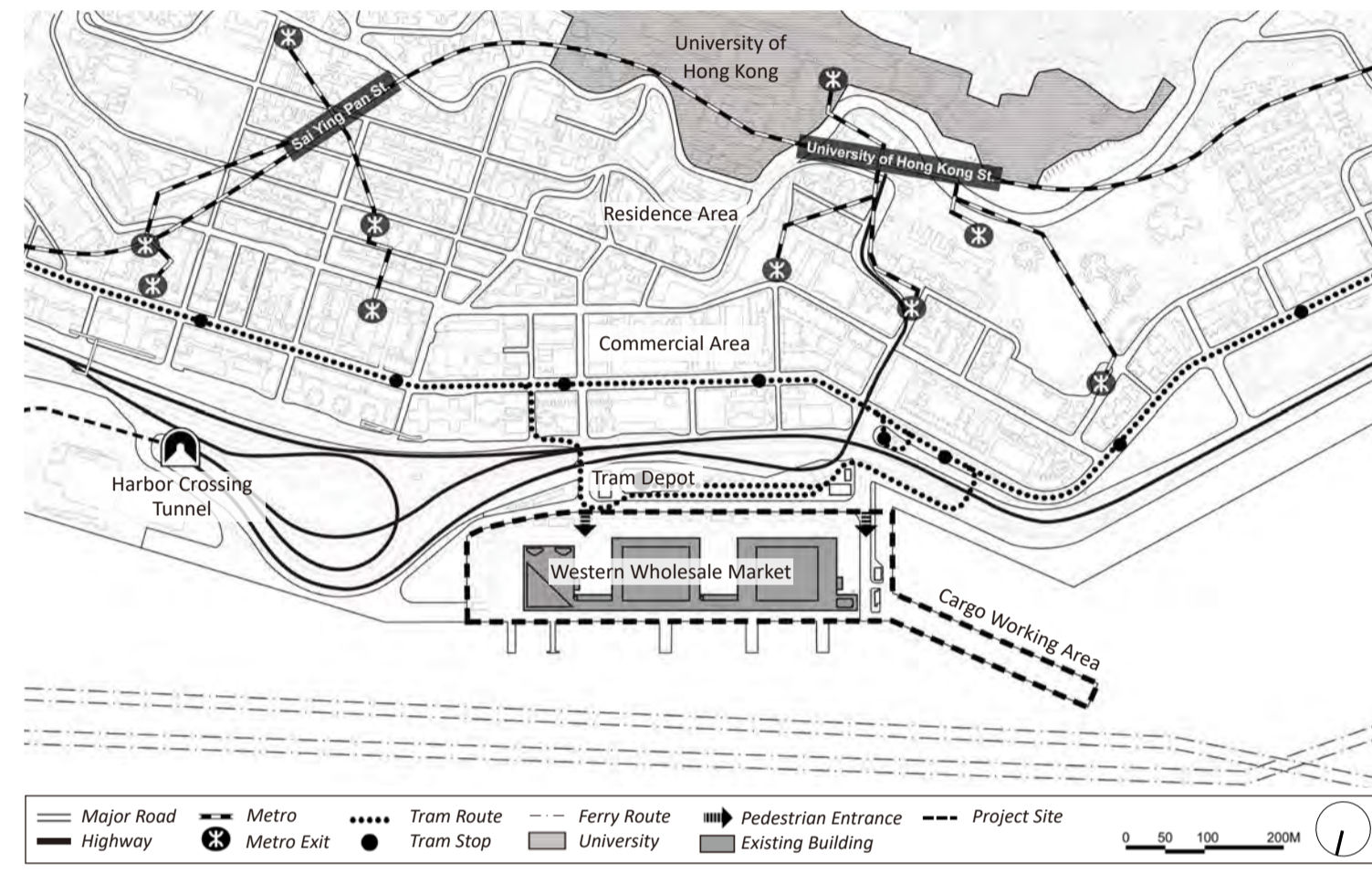
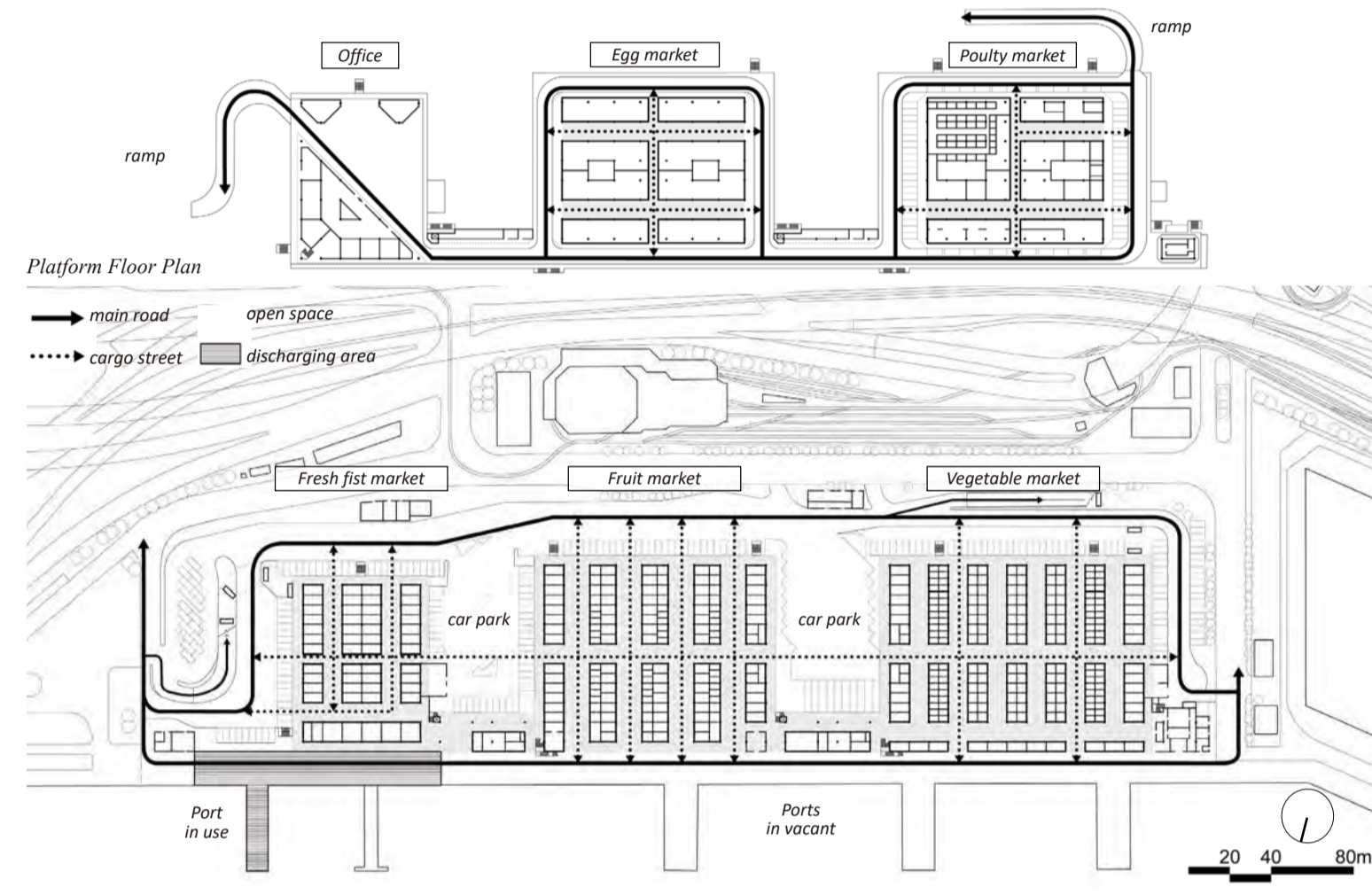
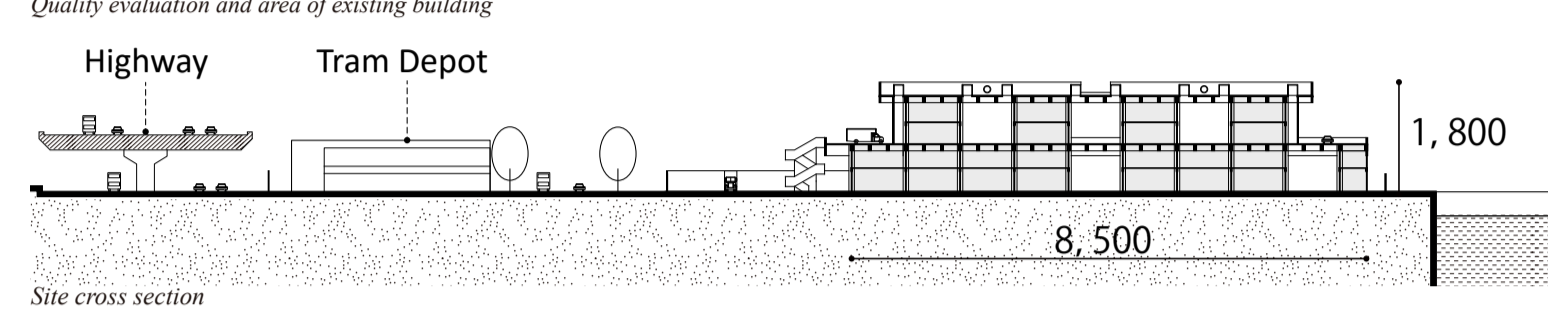
The project proposes a satellite campus that provides a collaborative base for students, companies, and citizens by combining education, research, commerce, and residence. Through the adaptive reuse of the existing buildings, its industrial context is continued and new learning, working and living spaces can be provided for the public.



## Research on the existing wholesale market

Located on the northwest coast of Hong Kong Island, the pier area involves a total area of 6 hectares. 2.1 Research on the existing wholesale market. The Western Wholesale Food Market (built in 1991) consists of three main buildings connected by a whole platform. The spatial characteristics of the building are the open street texture and its circulation including ramps and roadways to the platform floor for vehicles. As most of the ports and stalls are vacant, only one port is still supplying the operation of the market.

Wholesale floor area(m <sup>2</sup> )		Logistics floor area(m <sup>2</sup> )		Outdoor area(m <sup>2</sup> )	
Vegetable market	11,160	Lavatory, workshop	3,070	Cargo discharging	460
Fruit market	9,870	Market office	2,630	Car Parking	21,790
Freshwater fish market	4,980	Total	6,190	Total	22,250
Egg market	6,650				
Poultry market	5,430	Total Gross Floor Area	44,280	Total Land Area	620,000
Total	38,090				



## Research on harbor revitalization cases

Through analyzing the program conversion and accessibility improvement from existing cases of harbor revitalization worldwide, we can find the importance of incorporating cultural and commercial program and the reuse of previous port-related facilities to continue the context.

10. Rotterdam Innovation Dock	
Completion	2008
Area	40 ha
Country	Netherland
Program Shift	Dockyard
Facilities	Educational & Commercial
Accessibility	Warter-bus pier, pedestrian bridge

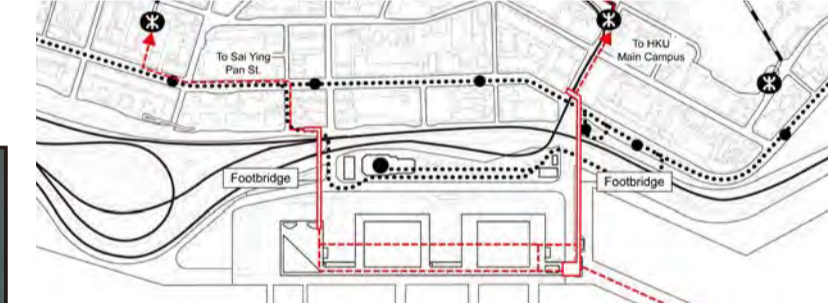
15. Granville Island	
Completion	2016
Area	15.2 ha
Country	Canada
Program Shift	Port
Facilities	School, market, theater, restaurant
Accessibility	Warter-bus, tram, pedestrian bridge

No.	Project Name	Program Conversion					
		Commercial & Office	Residential	Cultural & Educational	Leisure & Recreation	Historic Preservation	Traffic Integration
1	Baltimore Inner Harbor						
2	Tindec Wharf						
3	Boston Rowes Wharf						
4	New York Gantry Park						
5	Butler's Wharf						
6	New Concordia Wharf						
7	Tobacco Dock						
8	Aker Brygge Wharf						
9	Barcelona Old Port						
10	Rotterdam Innovation Dock						
11	Sydney Rocks Area						
12	Sydney Darling Harbor						
13	Hakotata Bay						
14	Singapore Clark Pier						
15	Granville Island						

List of harbor renovation projects and program conversion

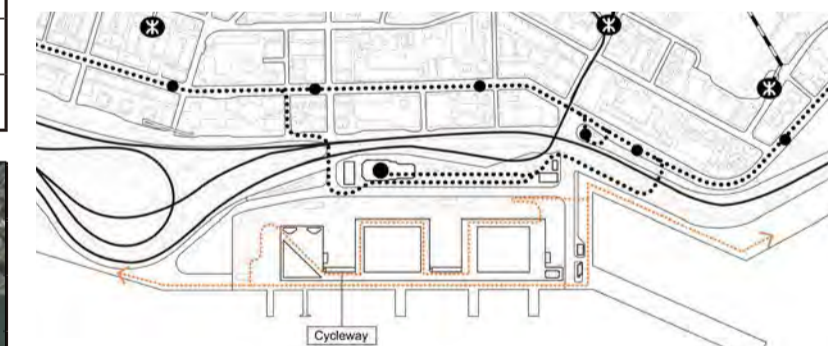
## Transport System

### Pedestrian Circulation



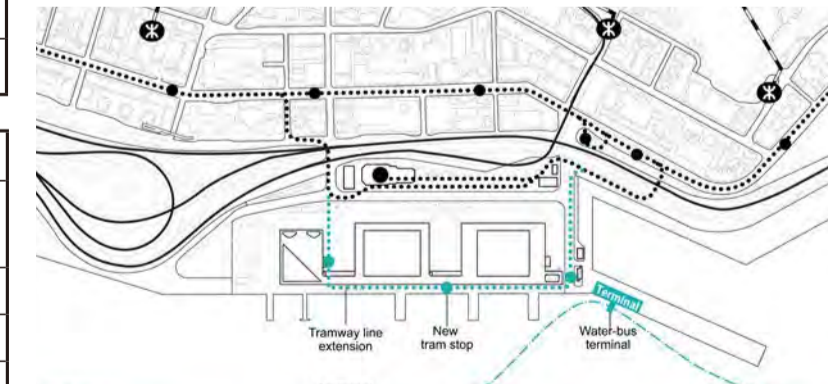
New pedestrian footbridges are created across the highway and connecting to the university through the tunnel of the metro station. Also, the open street throughout the existing wholesale market is reused as a campus street linking learning, research, office and community areas.

### Cycling Circulation



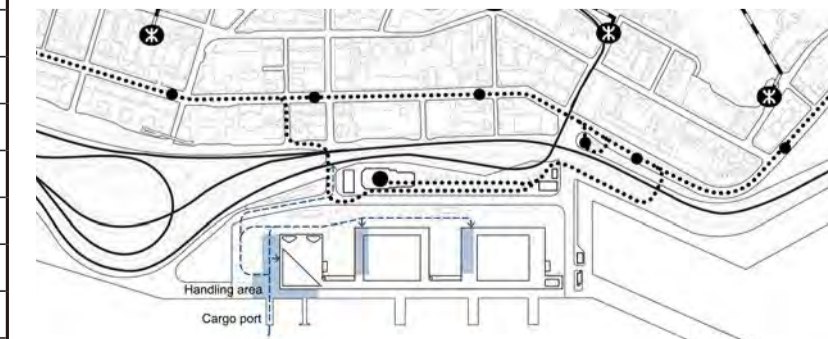
Former car ramps and roadways are transformed into new bicycle lanes on the upper level to provide rapid access, dealing with the long distance problem which is up to 400m at most.

### Public Transportation (Tramway, Water-bus)



Based on the future water-bus plan of the Hong Kong government, the new water-bus route is introduced into the site by setting a water-bus terminal at the pier area.

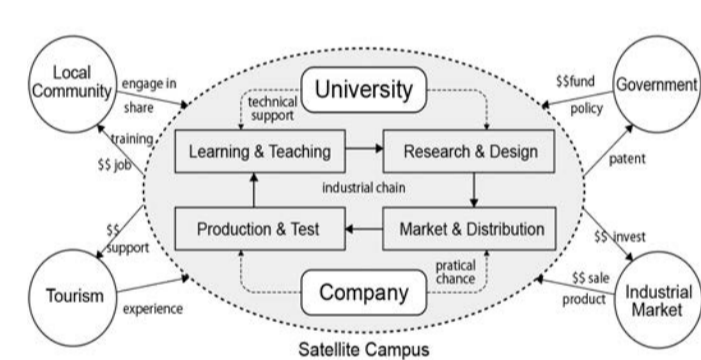
### Cargo Circulation



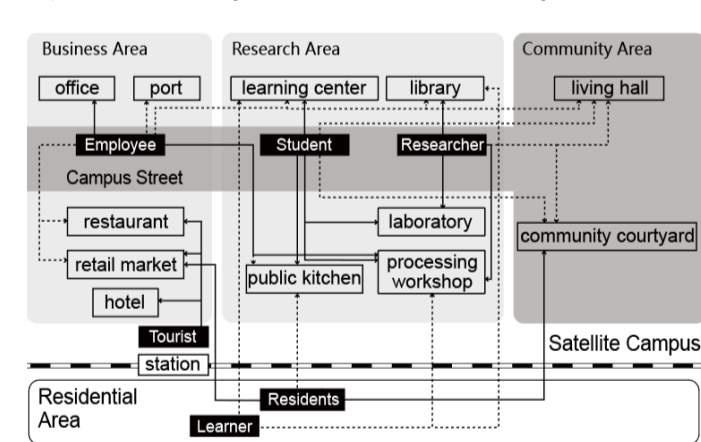
The old cargo circulation will be reorganized at the back side of all the building, keeping an entrance directly toward the cross-harbour tunnel for the rapid transit of product transportation.

## Cooperative Satellite Campus

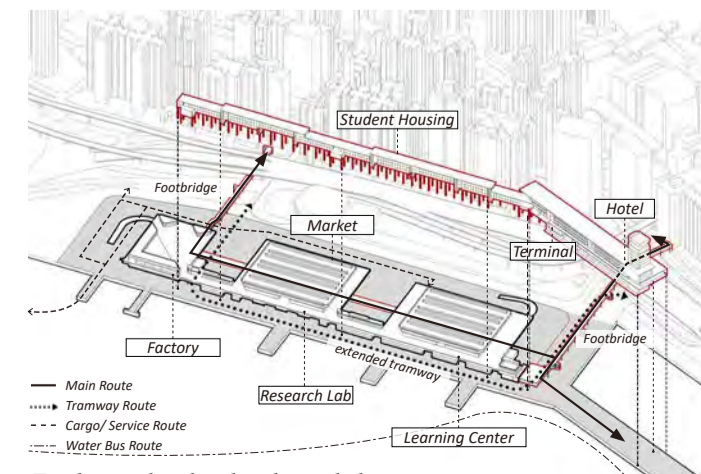
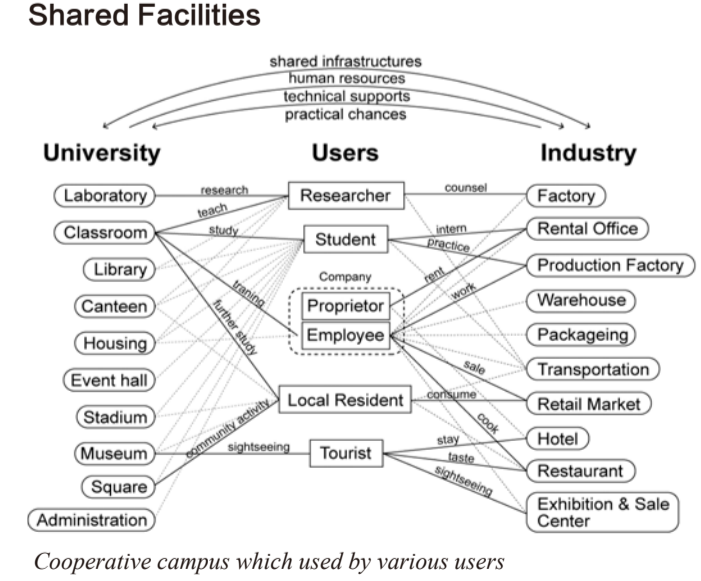
### Campus Operation Mode

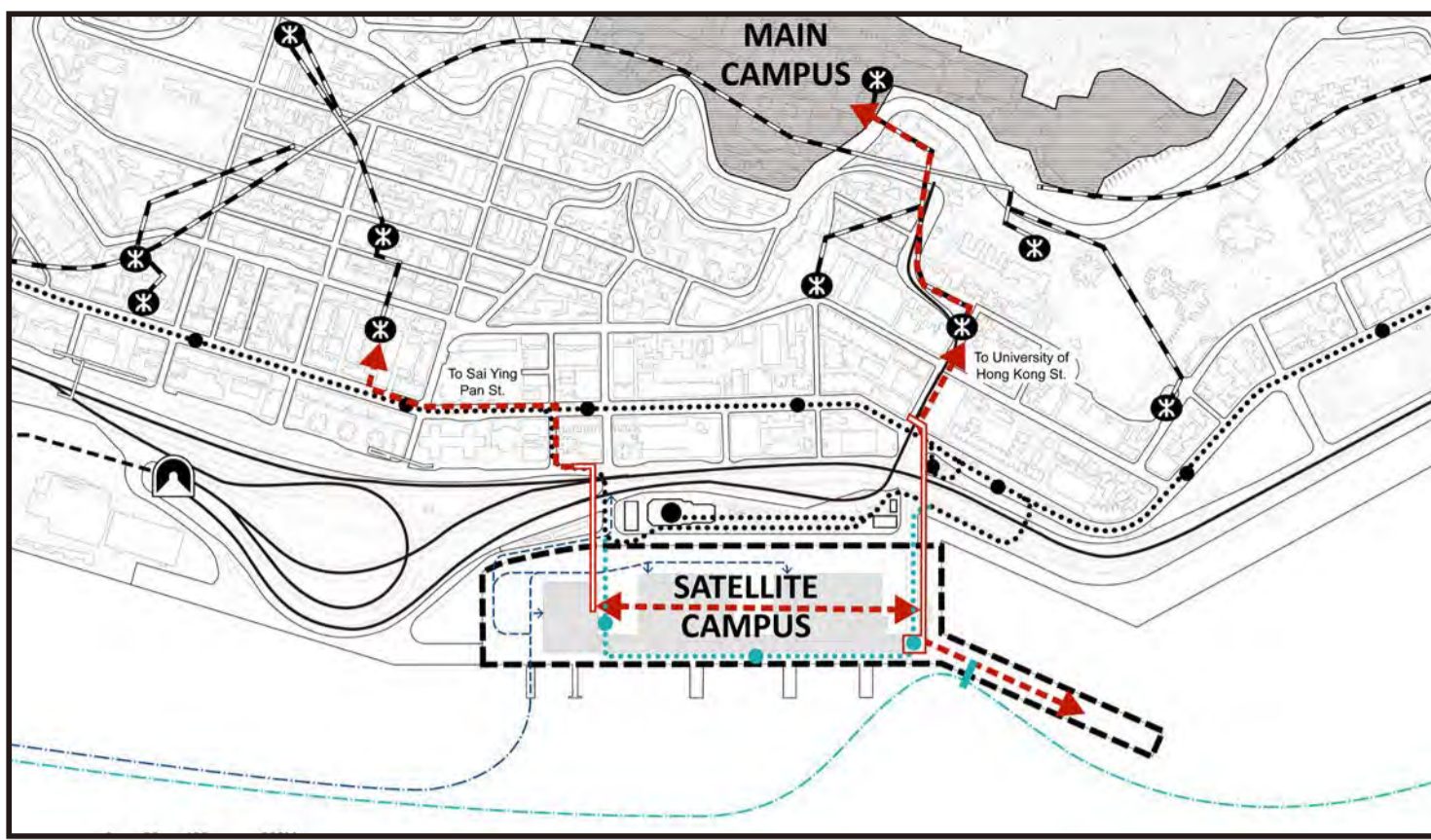


### System of Cooperative Satellite Campus



### Shared Facilities

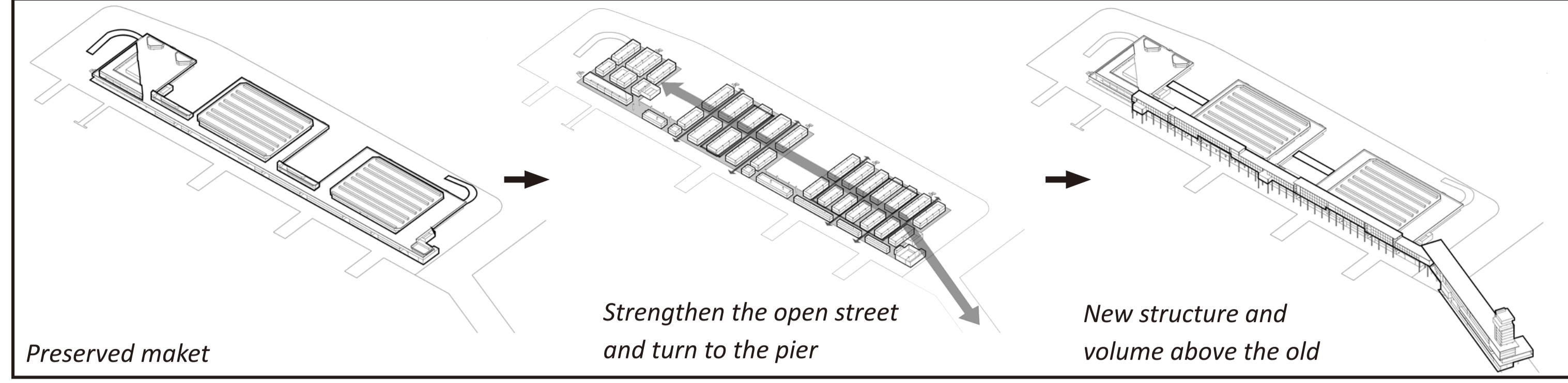




## Satellite campus

The project proposed an approach connecting to the main campus: pedestrian footbridge to the metro station and further access to the university by an underground tunnel. Also, tramway and water-bus route are extended to improve the accessibility. A main street throughout the whole building is reused as a linkage of learning, research, office and community areas.

## Renovation steps



## A. Processing Factory

- Integrate stalls
- Preserve existing buildings

Small scale stalls are integrated into huge spaces for production use. The corridor in this area will keep open to ensure the convenience of cargo flow.

## B. Research Lab

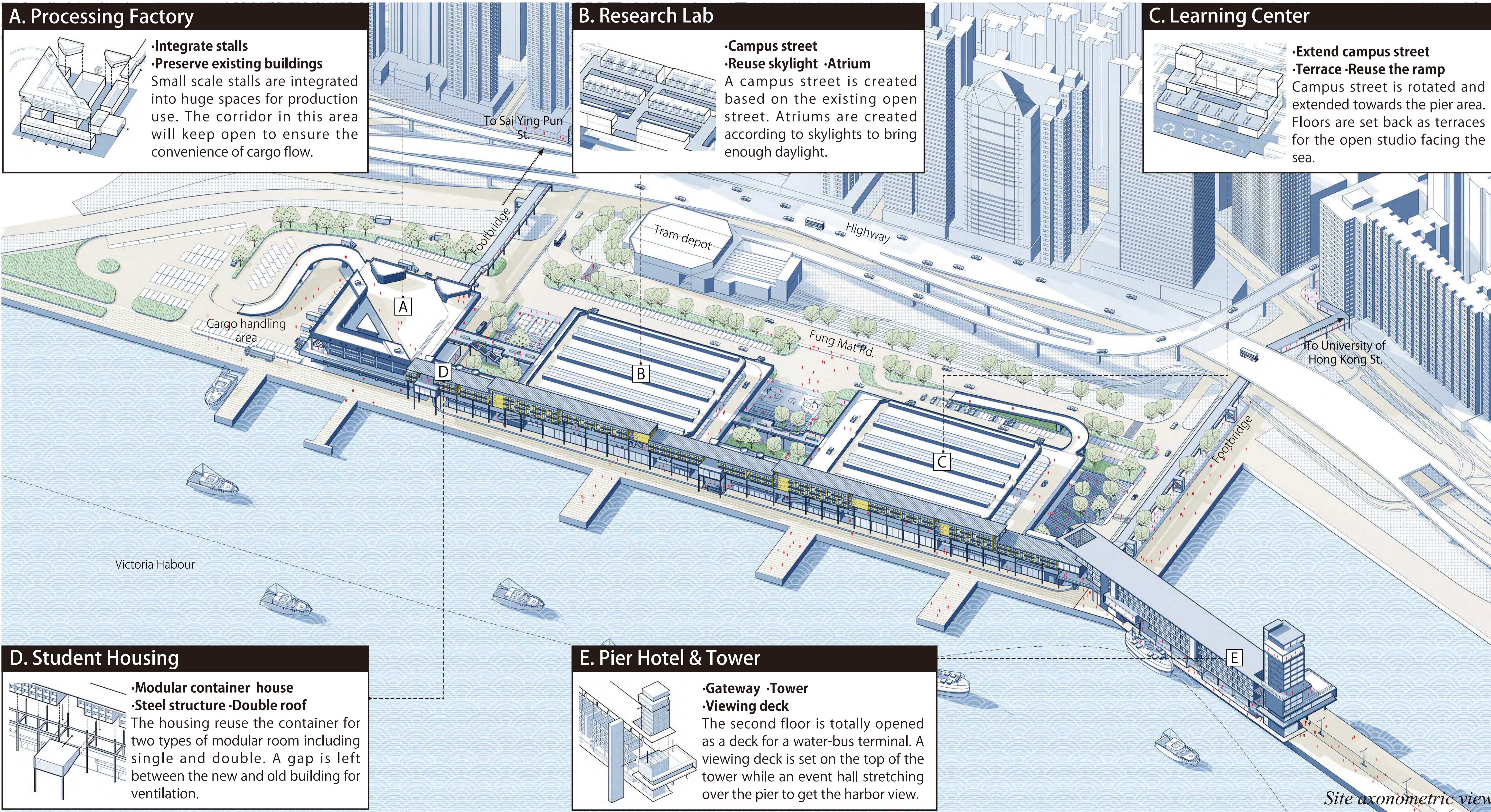
- Campus street
- Reuse skylight
- Atrium

A campus street is created based on the existing open street. Atriums are created according to skylights to bring enough daylight.

## C. Learning Center

- Extend campus street
- Terrace
- Reuse the ramp

Campus street is rotated and extended towards the pier area. Floors are set back as terraces for the open studio facing the sea.



## D. Student Housing

- Modular container house
- Steel structure
- Double roof

The housing reuse the container for two types of modular room including single and double. A gap is left between the new and old building for ventilation.

## E. Pier Hotel & Tower

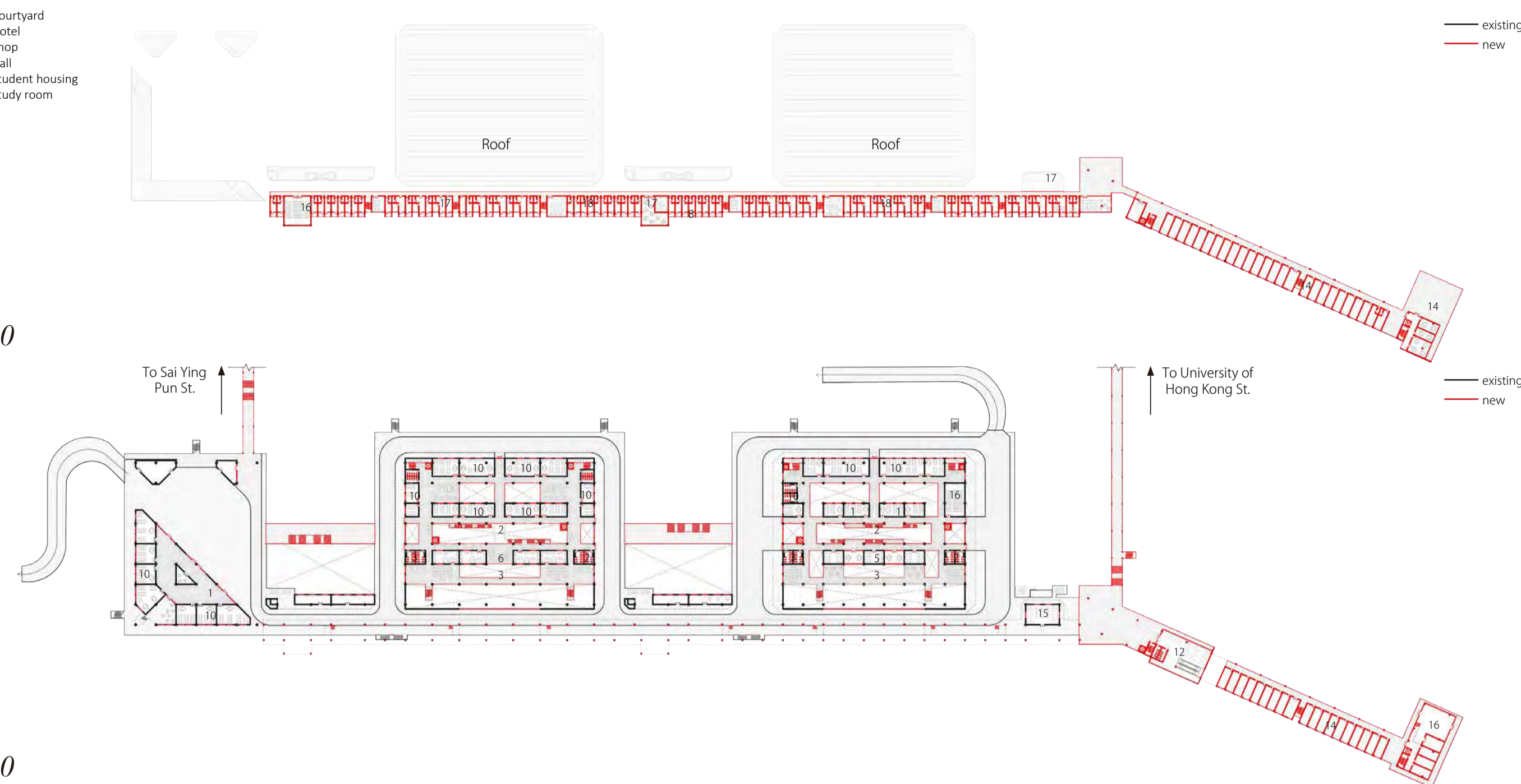
- Gateway
- Tower
- Viewing deck

The second floor is totally opened as a deck for a water-bus terminal. A viewing deck is set on the top of the tower while an event hall stretching over the pier to get the harbor view.

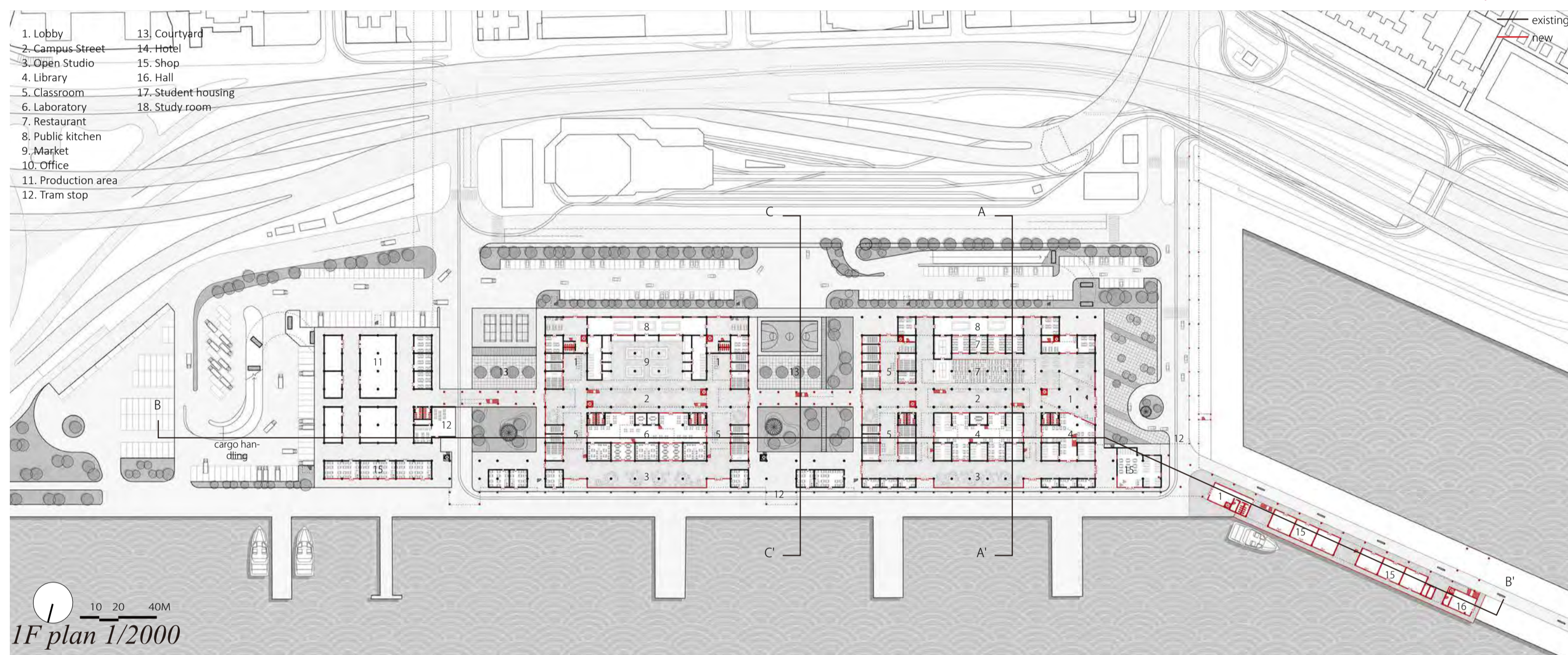
Site axonometric view

- 1. Lobby
- 2. Campus Street
- 3. Open Studio
- 4. Library
- 5. Classroom
- 6. Laboratory
- 7. Restaurant
- 8. Public kitchen
- 9. Market
- 10. Office
- 11. Production area
- 12. Tram stop
- 13. Courtyard
- 14. Hotel
- 15. Shop
- 16. Hall
- 17. Student housing
- 18. Study room

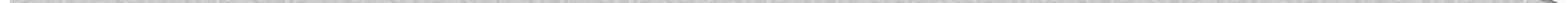
3F plan 1/2000



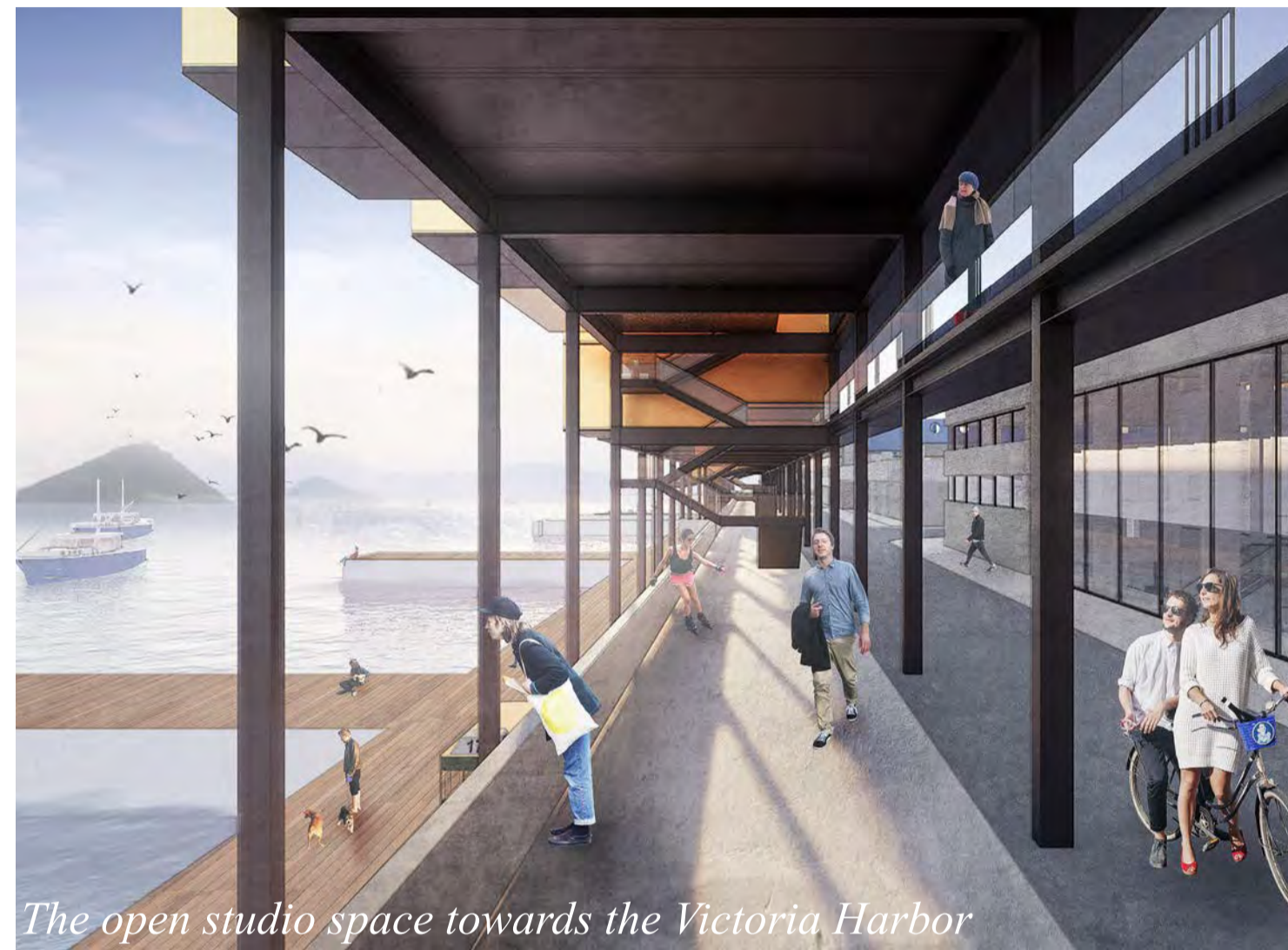
2F plan 1/2000



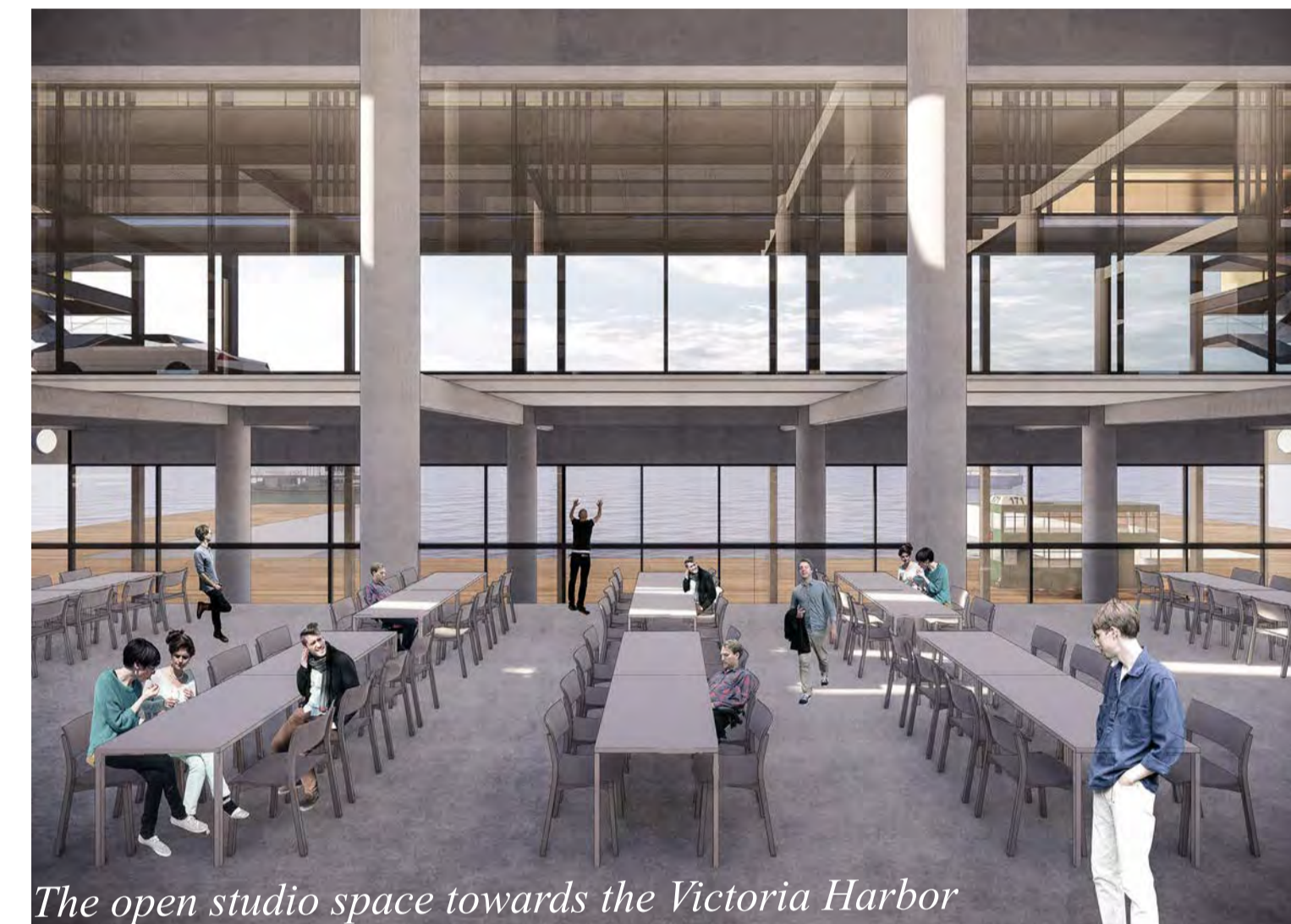
1F plan 1/2000



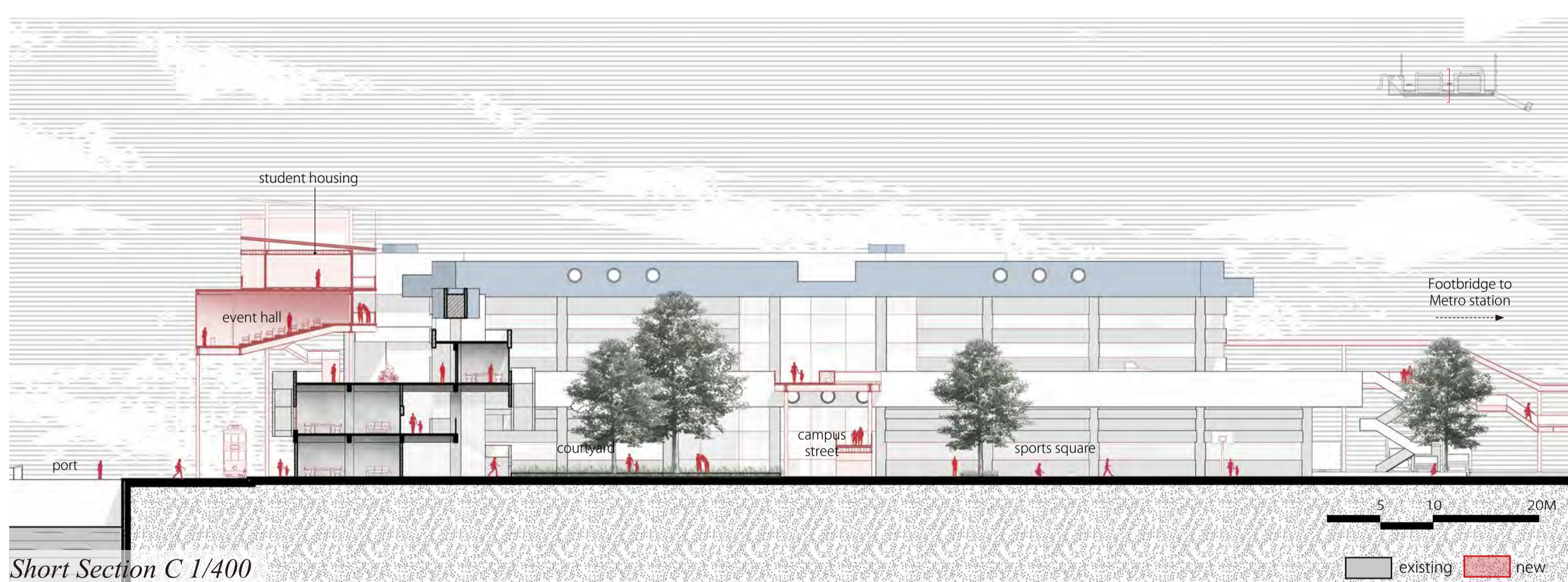
Main gate and entrance square



The open studio space towards the Victoria Harbor



The open studio space towards the Victoria Harbor



Short Section C 1/400



Long Section B 1/400

