5 TAIPEI

CASE STUDY

TAIPEI - ZHONGSHAN

臺北 - 中山區

台北 - 中山区

1. INTRODUCTION
2. CHARACTER
3. BACKGROUND
4. ZONING ANALYSIS
5. APPENDIX

TEAM

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DATE

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First Floor (Private parking space)



Sunlight (unaccessible to first floor)



First Floor (Shop)



Fire lane between buildings in one housing complex

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2] CHARACTER

2.2] STREET





2009

現物活海鮮

Jilin Road

- 1. Classification: two-way four lane
- 2. Veranda serves as one way of making a setback
- 3. Parking area boundary was especially drawn to avoid motorbikes parking on veranda in 2010



2020



Lane 236

Between buildings are lanes with the east-west direction.

- Classification: single lane one-way traffic organization
- No setback There is no building setback on those lanes so that no pedestrian system exists.
- Transportation: Motorbikes, slowly driven cars



Source: Google Streetview

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2] CHARACTER

2.2] STREET



Zhongyuan Street

Zhongyuan Street runs through the middle of the study area (between two blocks).

- 1. Classification: bi-directional single lane
- 2. Veranda Veranda serves as a kind of building setback, providing pedestrian ways.





Source: Google Streetview

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The building heights vary a lot. Roughly, the width to height ratio within the study area are in the range [1:3 -1:1]

Mostly, it remains 1:1.5

In narrow lanes, it keeps 1:2

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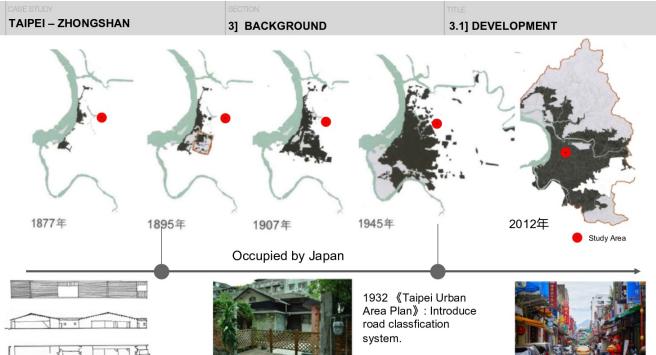
2] CHARACTER

2.4] STREET GRID





Xinsheng North Road	47m (Elevated + Ground)	Zhongyuan Street	8.5m	Lane 119, Section 2, Xinsheng North St	4m
Jinzhou Street	15m	Lane 127, Section 2, Xinsheng North St	6m	Lane 218, Jilin Road	6m
Section 2, Minsheng East Road	15m	Lane 123, Section 2, Xinsheng North St	4m	Lane 115, Section 2, Xinsheng North St	4m
Jilin Road	20m	Lane 236, Jilin Road	4m	Lane 200, Jilin Road	4m



Shop House (Qing Dynasty)

The City developed alongside Danshui River. Roads are mainly north-south oriented.

Japanese-style wooden house courtyard unit base

1905 《Taipei Urban Modification Plan》: The City will develop eastward. Plan a grid of new street systems in the new urban area where roads are east-west oriented. Each 80X40 shophouse units (150X75m) form a rectangular block in the inner city of new urban area.

Multi-storey Alleys

Commercial land is distributed along both sides of main roads. The area enclosed by main roads are divided into small residential blocks by branches and lanes.

Source: Lu. Z. (2016)

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3] BACKGROUND

3.2] DEMOGRAPHICS

A Typical Family:

- A couple with one child
- Live in a multi-unit apartment buildings
- Have above average income
- Live closely with old neighbors
- Frequently participate in neighborhood activities



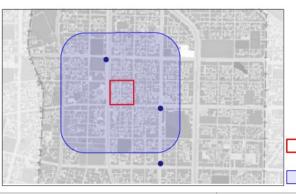
	Population density (per ha)	Aged population density (65+) (per ha)	Average number of Residents per household
Study Area Neighborhood	280	53	/
Zhongshan District	196	/	2.3
Taipei City	115	/	2.55



Transportation Condition:

ansportation Condition:

- Metro stations are one block away
- Main roads and second roads are mostly designed for automobiles
- Little space left for motorbikes and bikes



Usage:

Metro Station

Study Area

5min-walk Distance Area (from study area)

- Bus stop demand-supply ratio is 0.83 (demand less than supply)
- Motorbike parking demandsupply ratio is 1.38 (demand more than supply)
- The study area highly rely on motorbikes for commuting

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3] BACKGROUND

3.4] COMMUNITY FACILITIES





Source: Taipei City Urban Planning Commission

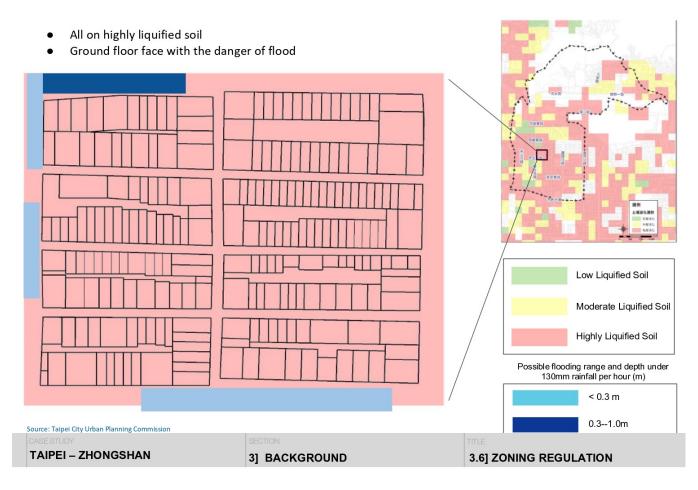
Senior Service Center

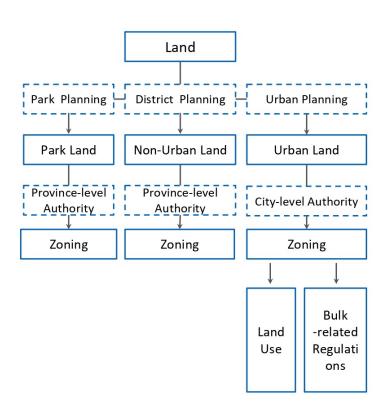


Green Space 500m Service Area



Jinzhou Park







How to change zoning?

- Individual Land owners who have land that matching requirements can apply for zoning modification (to Urban Planning Commission)
- Authority Taipei Urban Planning Commission enact Urban Redevelopment Plan to rezone areas

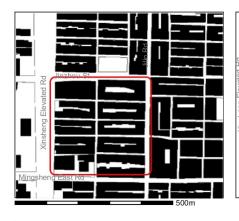
4] Zoning Analysis 4.1] ZONING MAP TAIPEI - ZHONGSHAN

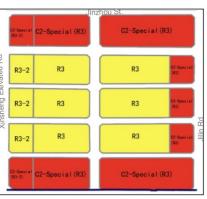


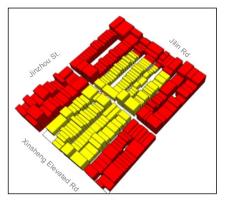
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4] ZONING ANALYSIS

4.2] ZONING SUMMARY







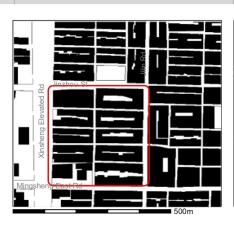
SUN	SUMMARY OF ZONING REGULATIONS (See Appendix for supporting research)				
1	ZONING DISTRICTS	R3	R3-2	C2-Special (R3)	C2-Special (R3-2)
2	LAND USE	Residential*	Residential*	Commercial*	Commercial*
3	FAR	2.25	4.00	2.25	4.00
4	SITE COVERAGE	45-50%	45-50%	45-50%	45-50%
5	SETBACKS	Front: 3m, Rear: 2.5m, Side:3m			
6	HEIGHT	4 Floors			

^{*} Mix used are allowed, mostly are in first floor

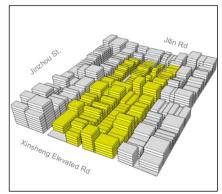
Source: Taipei City Urban Planning Commission

4] ZONING ANALYSIS

4.2] ZONING SUMMARY







* 內政部營建署 都市人本交通道路規劃設計手冊(第二版 2018年11月)

SUMMARY OF ZONING REGULATIONS (See Appendix for supporting research)			
1	ZONING DISTRICTS	R3	R3-2
2	LAND USE	Residential*	Residential*
3	FAR	2.25	4.00
4	SITE COVERAGE	45-50%	
5	YARD DEPTH (SETBACK)**	Front: 3m, Rear: 2.5m, Side:3m **	
6	HEIGHT	minimum: 4	

Source: Taipei City Urban Planning Commission; Bureau of Civil Affairs * Mixed use are allowed.

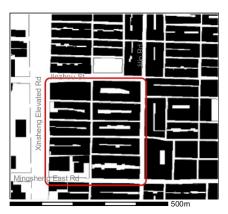
** Setbacks and veranda can be each other's alternative in some residential districts

逐縮帶 通行淨寬 公共設施帶 騎樓空間 並路交通管理處罰條例第3條第3項

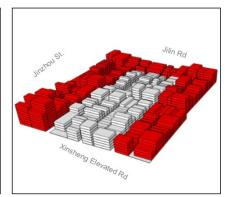
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4] ZONING ANALYSIS

4.2] ZONING SUMMARY







SUN	SUMMARY OF ZONING REGULATIONS (See Appendix for supporting research)			
1	ZONING DISTRICTS	C2-Special (R3)	C2-Special (R3-2)	
2	LAND USE	Commercial*	Commercial*	
3	FAR	2.25	4.00	
4	SITE COVERAGE	45-50%		
5	YARD DEPTH (SETBACK)	Front: 3m, Rear: 2.5m, Side:3m		
6	HEIGHT	4 Floors	4 Floors	

Source: Taipei City Urban Planning Commission; Rureau of Civil Affairs

* Mixed use are allowed. ** Setbacks and veranda can be each other's alternative in some residential districts



Veranda

Sidewalk

	4] ZONING ANALISIS	4.0] LVALOATION
PROS		Cons
 Streets: A crisscross, hierarchical roa the neighborhood walkable Buildings: Regulations encourage to of green roof to address water issue Open space: Green space are accessible within Park) In front of the shops on the crossarea can be used for informal into Climate adaptation: The terraces and buildings should be greened, and the should reach 50%. 	n 500m (Jinzhou sroads, a small teraction	 Street: Trash and other stuff piles up on the lanes; Does not meet current requirement about setback Parking: Delimit parking areas on the road, compressing motor vehicles use, pedestrian use space Building: cannot ensure sufficient sunlight; D/H is not comfortable Veranda: Regulations are not clear
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4.31 EVALUATION

Environmentally

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• Green space

Evaluate buildings based on conditions regarding building safety, building age, land suitability. If buildings are in a dangerous condition, then consider transforming buildings into a green space

Veranda

Veranda affects the load-bearing of the building, stipulating the width of the veranda and building requirements; promote urban style, highlighting the pedestrian space under the veranda

Sunlight

For buildings located inside the neighborhood, add special review for adding floor

Economically

Setback

Improve setback regulations to make gourmet business district (including food vendors and food stores) more attractive via allowing adequate space

5A] APPENDIX - BIBLIOGRAPHY

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