



# Tung Chung Urban Development

Version 2.0

## Objectives

1. Identify the land use distribution in different areas of Tung Chung.
2. Compare and contrast the living conditions of different settlement areas in Tung Chung.
3. Study the impacts of Tung Chung urban expansion on nearby areas.
4. Study the importance of the concept of sustainable development in new town development.

## Equipment List

Items	Quantity	Checked	Returned
1. Base map (Individual)	x4	<input type="checkbox"/>	<input type="checkbox"/>
2. Clipboard (Individual)	x1	<input type="checkbox"/>	<input type="checkbox"/>
3. Compass (Individual)	x1	<input type="checkbox"/>	<input type="checkbox"/>
4. Counter	x1	<input type="checkbox"/>	<input type="checkbox"/>
5. Sound meter	x1	<input type="checkbox"/>	<input type="checkbox"/>
6. Anemometer	x1	<input type="checkbox"/>	<input type="checkbox"/>
7. Dust Particulates meter	x1	<input type="checkbox"/>	<input type="checkbox"/>

## Field Work 1

1. According to the maps, take a walk in Ma Wan Chung Village, Yat Tung Estate and Tung Chung Town Centre.
2. Identify and record the land uses on maps 1.2 and 1.3.
3. Observe the surrounding environment and record all the data on Table 1.
4. Measure the dust particulates, wind direction, wind speed, noise level, and pedestrian flow at the specific checkpoints.

## Field Work 2

1. According to the route on map 1.1, observe the uses of ground floor space, including their number and characteristics, and record the data on Table 2.

Table 1

Items	Ma Wan Chung Village	Yat Tung Estate	Tung Chung Town Centre
<b>A. Living Environment</b>			
1. Building Density	High / Proper / Low	High / Proper / Low	High / Proper / Low
2. Building a) Average Height  b) Appearance	_____  Modern / Average / Traditional	_____  Modern / Average / Traditional	_____  Modern / Average / Traditional
3. Living Environment  Examples: surrounding environemnt, greening, management, scenery.....	Good/ Satisfactory/ Poor  Examples:	Good/ Satisfactory/ Poor  Examples:	Good/ Satisfactory/ Poor  Examples:
4.Types of Residential Buildings  Examples: detached houses, bungalows, traditional houses, multi-storey buildings...	High/ Middle/ Low income  Examples:	High/ Middle/ Low income  Examples:	High/ Middle/ Low income  Examples:
<b>B. Local Economy</b>			
6. Land Rent	High/ Middle/ Low	High/ Middle/ Low	High/ Middle/ Low
7. Types and  Number of Economic Activities	More / Less	More / Less	More / Less
8. Order of Goods and Services	High/ Middle/ Low	High/ Middle/ Low	High/ Middle/ Low
9. Major Type of Customers	Local residents/ Local and overseas tourists	Local residents/ Local and overseas tourists	Local residents/ Local and overseas tourists

Table 1 (cont'd)

Items	Ma Wan Chung Village		Yat Tung Estate		Tung Chung Town Centre	
C. Transport						
10. a) Types and Number	More/ Less/ None		More/ Less/ None		More/ Less/ None	
b) Accessibility of Public Transport	High/ Average/ Low		High/ Average/ Low		High/ Average/ Low	
c) Cross-district Transport Cost	_____		_____		_____	
D. Social Environment						
11. Local residents						
a) Income Group	High / Middle / Low		High / Middle / Low		High / Middle / Low	
b) Age Group	Children/ Adult/ the elderly		Children/ Adult/ the elderly		Children/ Adult/ the elderly	
12. Social facilities						
a) Number	More/ Less Examples:		More/ Less Examples:		More/ Less Examples:	
b) Accessibility	Higher/ Lower		Higher/ Lower		Higher/ Lower	
13. Public Open Space	Large/ Some/ Small		Large/ Some/ Small		Large/ Some/ Small	
14. Pedestrian Flow (measure 1 minute)	a) Residents	b) Tourists	a) Residents	b) Tourists	a) Residents	b) Tourists

Table 1

Items	Ma Wan Chung Village			Yat Tung Estate			Tung Chung Town Centre			
E. Environmental Quality										
15. Greening Area	Large/ Some / Small			Large/ Some / Small			Large/ Some / Small			
16. Wind direction (measure 1 minute)	1)	2)	3)	1)		2)		1)		2)
	4)	5)	6)	3)	4)		5)	3)	4)	5)
17. Wind speed (m/s) (measure 1 minute)	1)	2)	3)	1)		2)		1)		2)
	4)	5)	6)	3)	4)		5)	3)	4)	5)
18. Dust Particulates ( $\mu\text{g}/\text{m}^3$ ) (measure 1 minute)	1)	2)	3)	1)		2)		1)		2)
	4)	5)	6)	3)	4)		5)	3)	4)	5)
19. Noise level (dB) (measure 1 minute)	1)	2)	3)	1)		2)		1)		2)
	4)	5)	6)	3)	4)		5)	3)	4)	5)
20. Level of Urban Planning										

Table 2

Uses of Ground Level Space in Ma Wan Chung Village				
	Residential	Commercial	Vacant	Others
Characteristics				
Number				
Percentage (%)				

## Data Processing

1. Draw appropriate graphs to represent the collected data.

## Discussion Questions

1. What are the differences between Tung Chung Town Centre and Yat Tung Estate in terms of (a) building density; (b) order of goods and services; (c) urban function; (d) land uses and (e) economic activities ?

	(a) Building Density	(b) Order of Goods and Services	(c) Urban Function	(d) Land Uses	(e) Economic Activities
Tung Chung Town Centre					
Yat Tung Estate					

2. Describe the characteristics of Ma Wan Chung Village. How has Tung Chung urban development affected Ma Wan Chung Village?

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3. Do you think Tung Chung is a well planned new town? Why?

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### Extended Questions

1. What are the impacts of Tung Chung New Town extension on the society, economy and environment of the local and adjacent areas?

	Impacts of Tung Chung New Town Extension
Society	
Economy	
Environment	

2. From your personal view, would you like to live in Tung Chung ?

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