The Knowledge, Attitude and Behaviour of the Public towards Recycling in Hong Evaluation of "Green@Community" Programme in the Eastern and Kwai Tsing District







RESEARCH BACKGROUND

- High production of waste in Hong Kong
 - 5.49 million tonnes of Municipal Solid Waste in 2020
- Low recycling rate in Hong Kong
 - 28% in 2020 (the <u>lowest</u> since 1997)
- High reliance on landfilling in Hong Kong
 - the <u>3 exisiting landfills</u> could only meet the demand for waste management in Hong Kong until the 2030s
 - highly associates with <u>environmental problems</u>



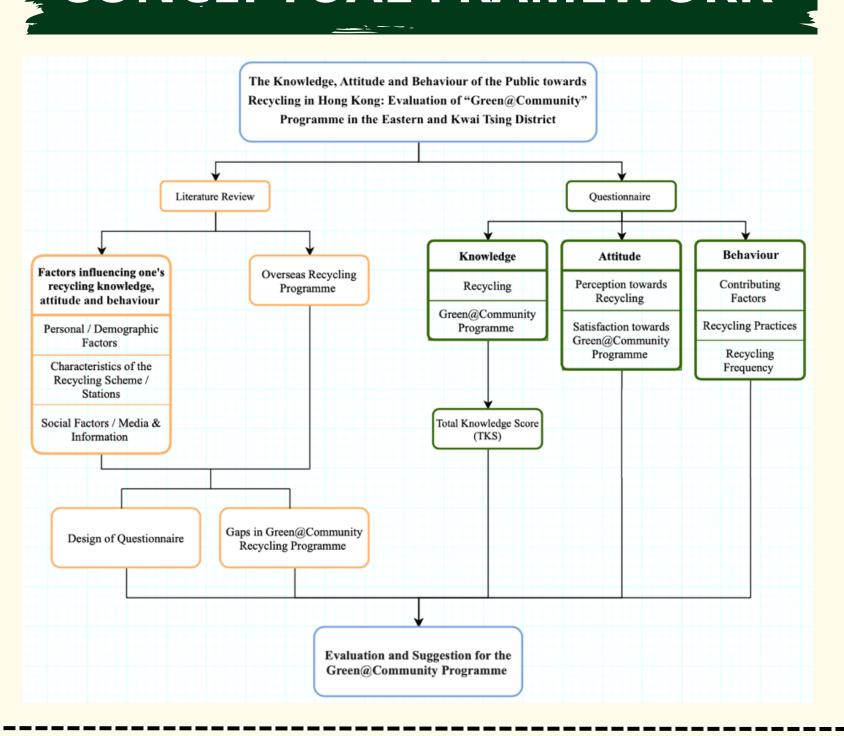
RESEARCH OBJECTIVES



1. To investigate the knowledge, attitude and behaviour of the public towards recycling, particularly the "Green@Community" Programme

2. To distinguish the push and pull factors, and thus the most influential factor in contributing to the public's recycling knowledge, attitude and behaviour in Hong Kong 3.To evaluate and provide suggestions for the "Green@Community" Programme based on the public's knowledge, attitude and behaviour towards recycling

CONCEPTUAL FRAMEWORK



MAJOR FINDINGS



- Knowledge
 - Average score: **3** out of 8
 - Low to moderate understanding towards factual questions related to recycling and waste issues in Hong Kong
 - Source of knowledge: 1) recycling station near home 2) family and friends 3) social media
 - High exposure to the Green@Community Programme
 - Knowledge level: Eastern > Kwai Tsing

Attitude

- A **high sense of responsibility** to protect the environment
- Good impression towards recycling
- Highly dissatisfied with government's work in promoting recycling under the Green@Community Programme



- Recycle with correct procedures
- Current recycling frequency: sometimes
- Committed to more recycling in the future

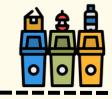


Three a to more recycling in the rate of				
	Factors	Knowledge	Attitude	Behaviour
	Demographic	Age Group (-)	Education Level (-)	Age Group (+)
	Characteristics of	/	/	Economic
	the recycling			Incentive: Money
	scheme/station			Incentive (-)
	Social	/	Promotion (Social	Social Influence:
Eastern			Media):	Peer Influence (+)
Eas			Interesting Posts (+)	
Kwai Tsing	Demographic	Education Level (+)	/	Age Group (+)
	Characteristics of	/	/	/
	the recycling			
	scheme/station			
	Social	Social Influence:	Social Influence:	Social Influence:
		Family Influence (+)	Peer Influence (+)	Peer Influence (+)

Summary of results of **Regression Analysis:** the most influential factor that affect respondents' knowledge, attitude, and behaviour in each category in the Eastern and Kwai Tsing District respectively

RESEARCH SIGNIFICANCE

- Environmental problems associated with waste are unsolved and critical issues in **Hong Kong**
 - Waste is the 3rd largest contributor of GHG emissions in HK in 2019
- Build a foundation of waste reduction and recycling in Hong Kong
 - To achieve Zero Landfill and cut carbon emission by half of that in 2005 before 2035
 - ∘ To reach <u>carbon neutrality</u> by 2050 😝 🚖



SCOPE AND STUDY AREA



Green@Community Programme

- a comprehensive recycling network that covers all 18 districts in HK
- to promote recycling and waste reduction at district level
- to encourage the public to live a greener life

Compare the Green@Eastern & Green@Kwai Tsing Recycling Station

METHODOLOGY

Data Collection

- Primary Data
 - Site Visits (at Green@Eastern and Green@Kwai Tsing Recycling Station
 - Questionnaire: 102 responses
 - Interviews: 4 from Kwai Tsing District, 3 from Eastern District

Secondary Data

- literature and scholars
- government reports, press releases and news

Method of Analysis



- Research Question 1
- Total Knowledge Score (TKS)
- Correlation Analysis
 - Research Question 2
 - To identify <u>significant</u> factors and <u>relationship</u> between variables
- Regression Analysis
 - Research Question 2
 - To identify the <u>most influential factors</u> for people's recycling knowledge, attitude and behaviour

ANTICIPATED RESULTS

H1: People in general have a **low level of understanding, attitude, and behaviour** towards recycling, particularly the Green@Community Programme, resulting in the low recycling rate in Hong Kong.

H2: Income level, level of convenience and celebrity endorsement are the top factors in each category that contribute the most to one's knowledge, attitude, and behaviour in recycling. H3: The Green@Community Programme shows limited impact on waste reduction and recycling in HK, but it could be improved by taking consideration of different mentioned factors.

Correlation Analysis

Eastern District

- <u>Demographic Factors</u>
- Age: Knowledge (-) & Behaviour (+)
- Gender: Knowledge (+)
- Household Living Space: Attitude (-)
- Characteristics of the Recycling Scheme / **Station**
 - Level of Convenience / Availability: Attitude (+) & Behaviour (+)
 - o Design of the Station: Knowledge (-), Attitude (+) & Behaviour (+)
 - Economic Incentive: Behaviour (-)
- Social Factors
 - Promotion on Social Media: Attitude (+)
 - Celebrity Endorsement: Knowledge (-)
 - Social Influence: Knowledge (-), Attitude (+) & Behaviour (+)

Kwai Tsing District

- <u>Demographic Factors</u>
 - Age: Knowledge (-), Attitude (+) & Behaviour (+)
- Characteristics of the Recycling Scheme / Station
 - Level of Convenience / Availability: Behaviour (+)
 - Design of the Station: /
 - Economic Incentive: Behaviour (+)
- Social Factors
 - Promotion on Social Media: Knowledge (-) & Behaviour (+)
 - Celebrity Endorsement: Knowledge (-)
 - Social Influence: Knowledge (+) & Behaviour (+)
- Provide more **Public Education on Recycling**



SUGGESTIONS

o in early childhood at school

- o at the Green@Community recycling station (exhibitions, workshops and guided tour
- Provide more Green@Community Recycling Bins
 - to <u>reduce the time cost</u>
 - o it is more trustable and reliable than traditional ones



- Offer more **Money Incentives**: Reverse Vending Machine Pilot Scheme
 - especially in districts with a <u>lower financial status</u> clear the storage of the machines more frequently
- Enhance Promotion on Social Media
 - adopt a <u>two-way communication and interaction</u>



• use both Facebook and Instagram that target different age group