

# Searching Potential Sites for "Graffiti":

## From Graffiti to Wall Arts

*Shaping Our Urban Narrative Together*

— A study of wall arts in urban context



Lina



Ivan



Steven

C4-50

The Aesthete



*Building an artistic city with "Graffiti" through effective management*

# What We Discover.....

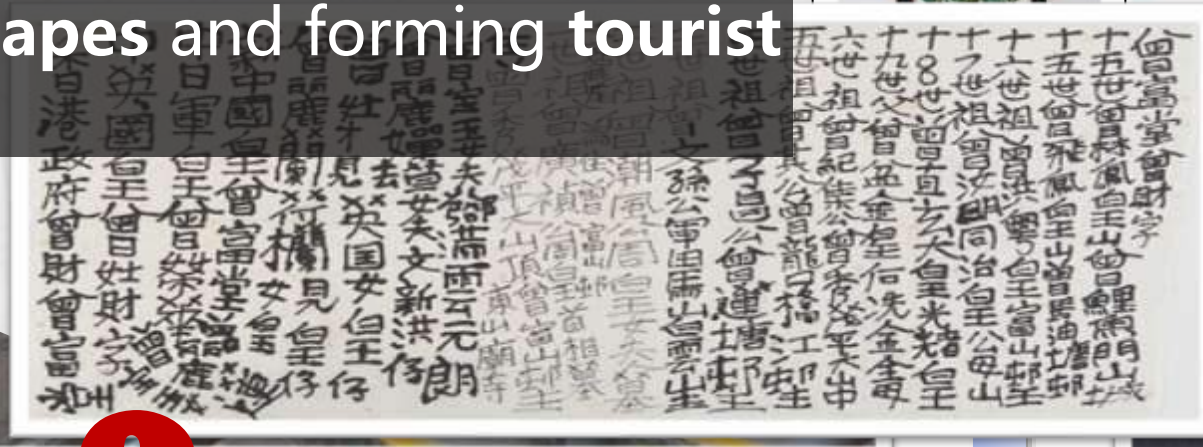


## OUR OBSERVATIONS

Communities with wall arts (e.g. Sai Ying Pun, Sheung Wan)

Wall arts promoted by the Hong Kong Tourism Board (HKTb)

Building unique streetscapes and forming tourist spots



An effective wall arts management system is the key to build an artistic and vibrant Hong Kong!!!

### The *pain* points ?



Lack of space



Quality of artworks



Regulations

Our definition: "G...ti" refers to



# Our Objectives "4+2+1"

From **Graffiti** to **Wall Arts**  
C4-50 The Aesthete

Identify the **current graffiti distribution**

Understand existing **potential benefits** of graffiti and promote stakeholder cooperation

Identify **potential areas for graffiti** in urban spaces

Provide **management advice** and application



**Four Objectives**

**Two Expectations**



To promote the **transformation** of graffiti as street art

To promote Hong Kong's **unique arts and culture**

**One Vision**

**"Envisioning a wall Arts Infused City: Where Art Revives Urban Spaces, Fosters Cultural Identity, and Enlivens Social Dialogue."**



# A Glance of the Current Situation

Machine Learning

Field Survey

Graffiti

Correlation

Weighted

Likelihood

Study area is The Whole Territory

## Machine Learning

Study Area: Central and Western District

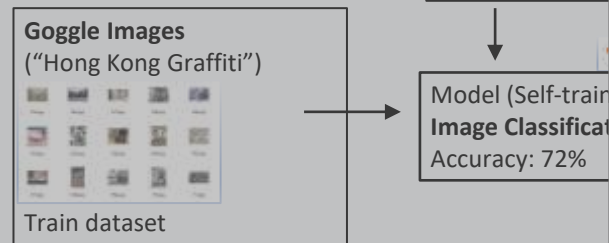
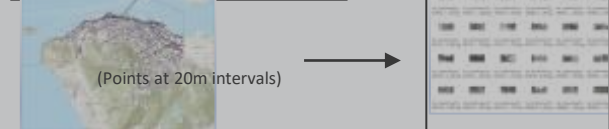
Google Street (3 bearings)

Predicted data

Model (Self-trained Image Classification)  
Accuracy: 72%

Goggle Images ("Hong Kong Graffiti")

Train dataset

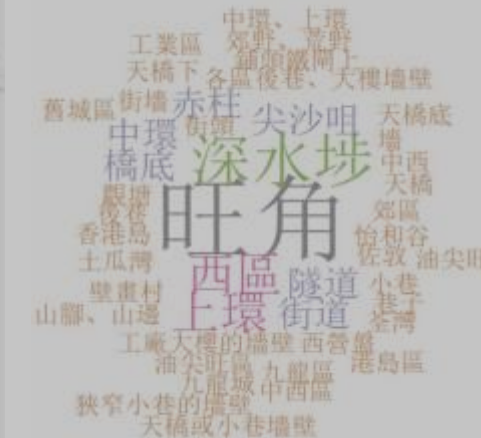
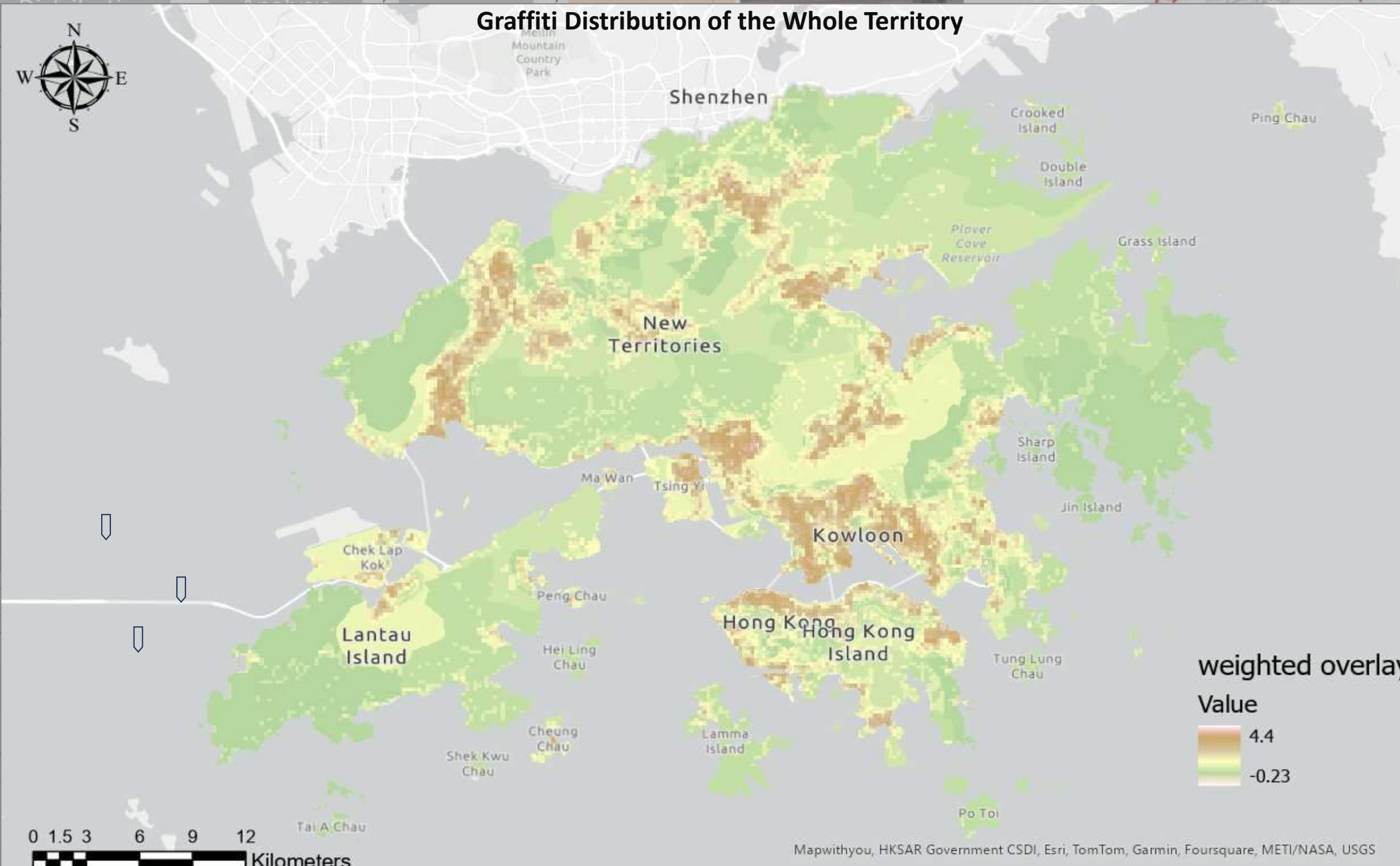


## Mapping (Graffiti Distribution)

Current Graffiti Distribution Map



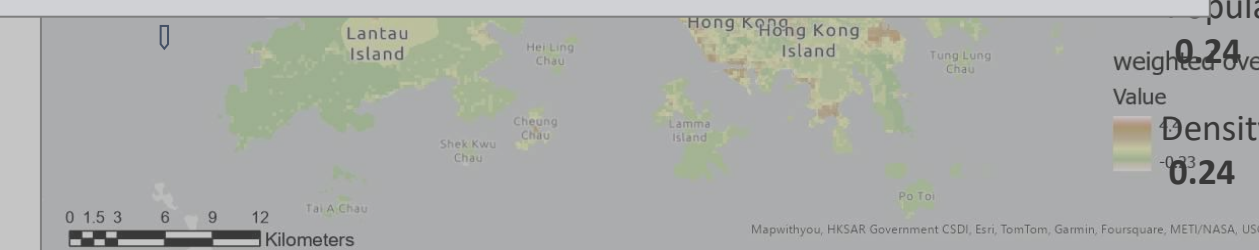
Current Graffiti Kernel Density Map



## Building Quality

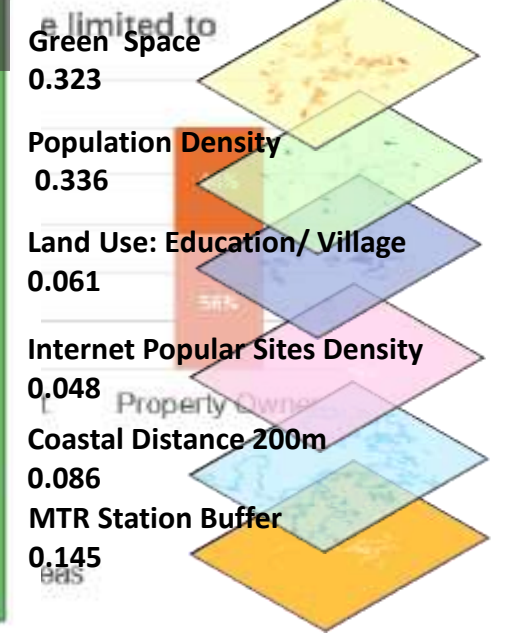
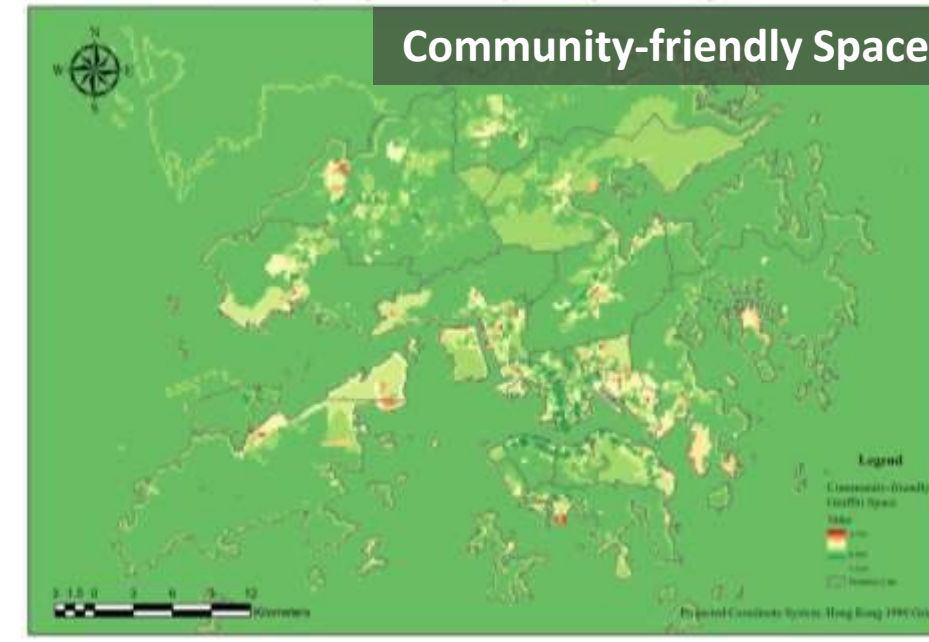
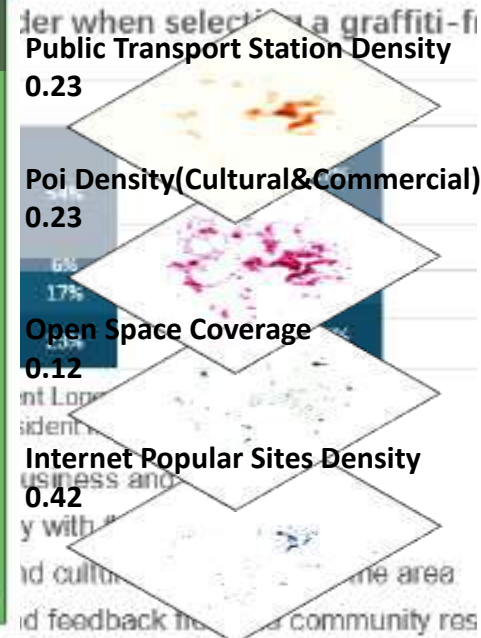
- Mean building age
- Mean house prices

- Distance to the nearest MTR station: 0.23
- Density of road network: 0.35
- Density of road junction: 0.17
- Mean house prices: 0.27
- Construction land area: 0.24
- Population density: 0.24
- Density of tourism-related facilities: 0.24



## 2 Scenarios

*Tourism-oriented*  
&  
*Community-oriented*



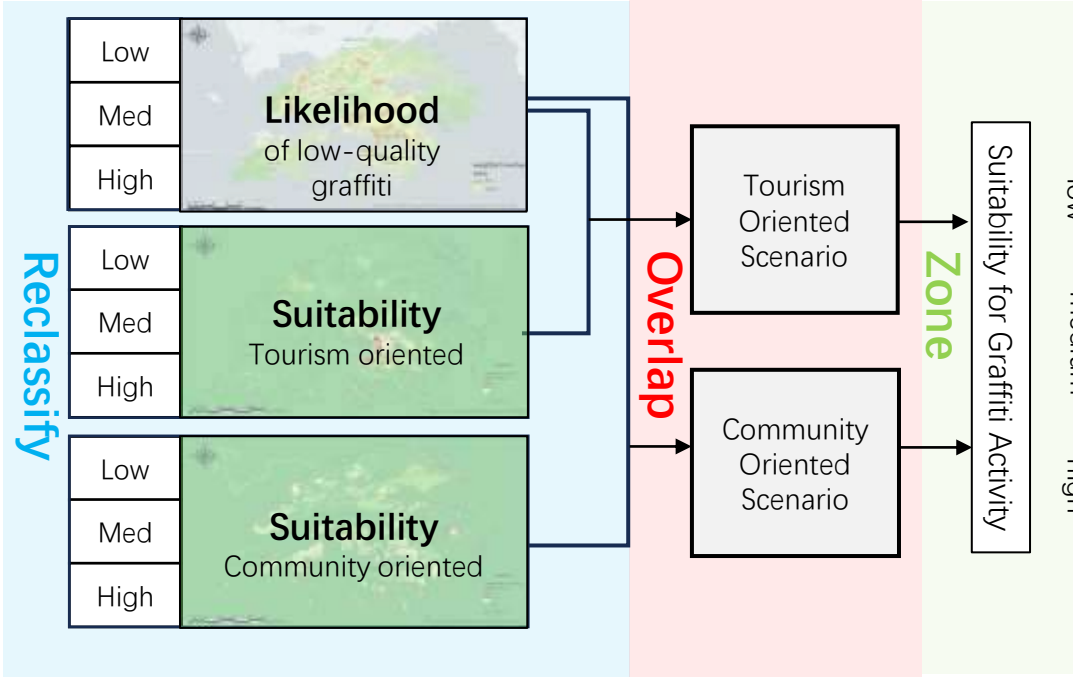
## 3-Tier Zoning System



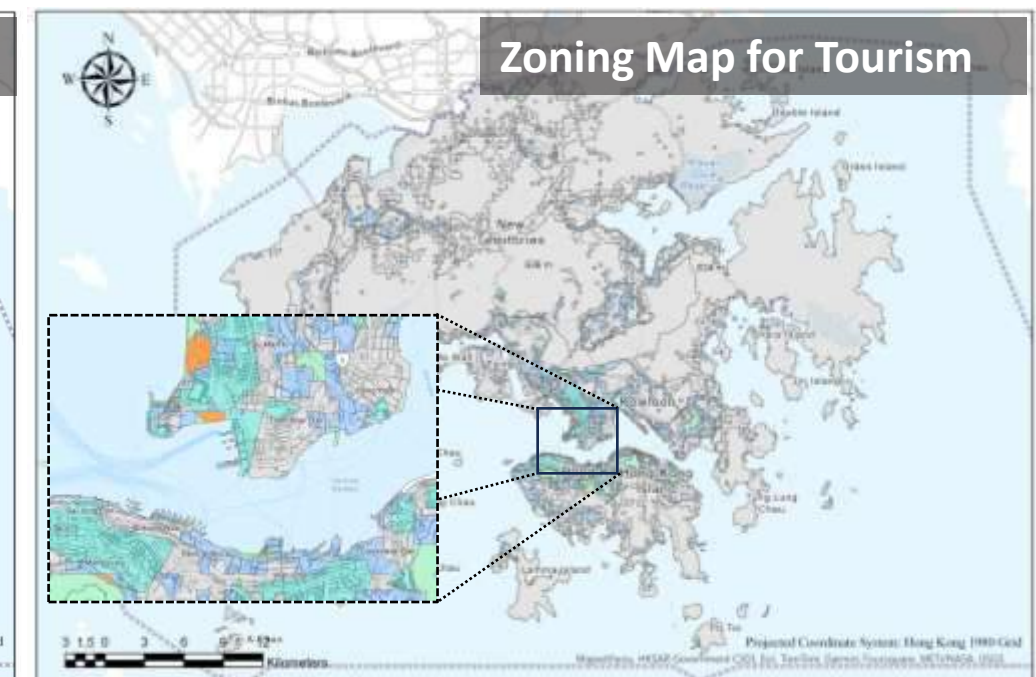
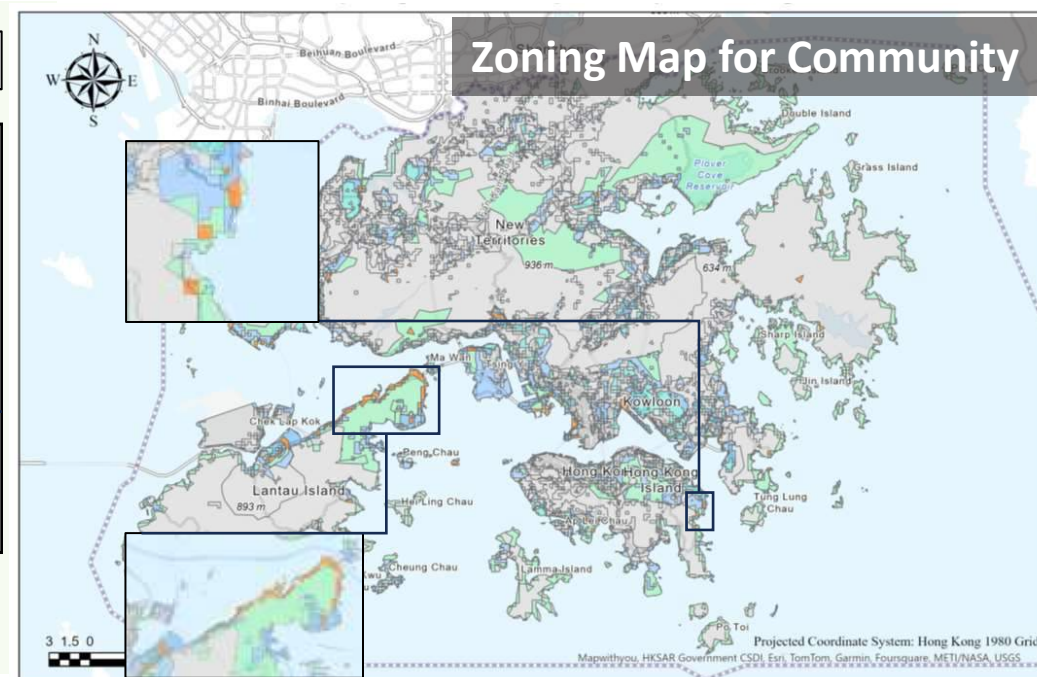
Free Zone

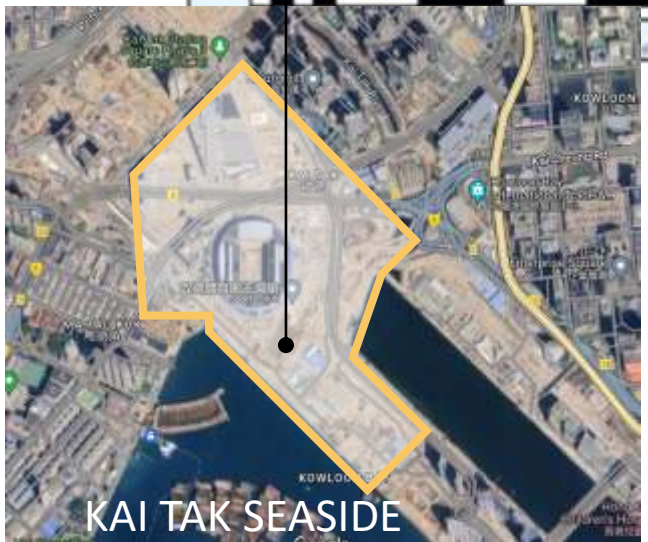
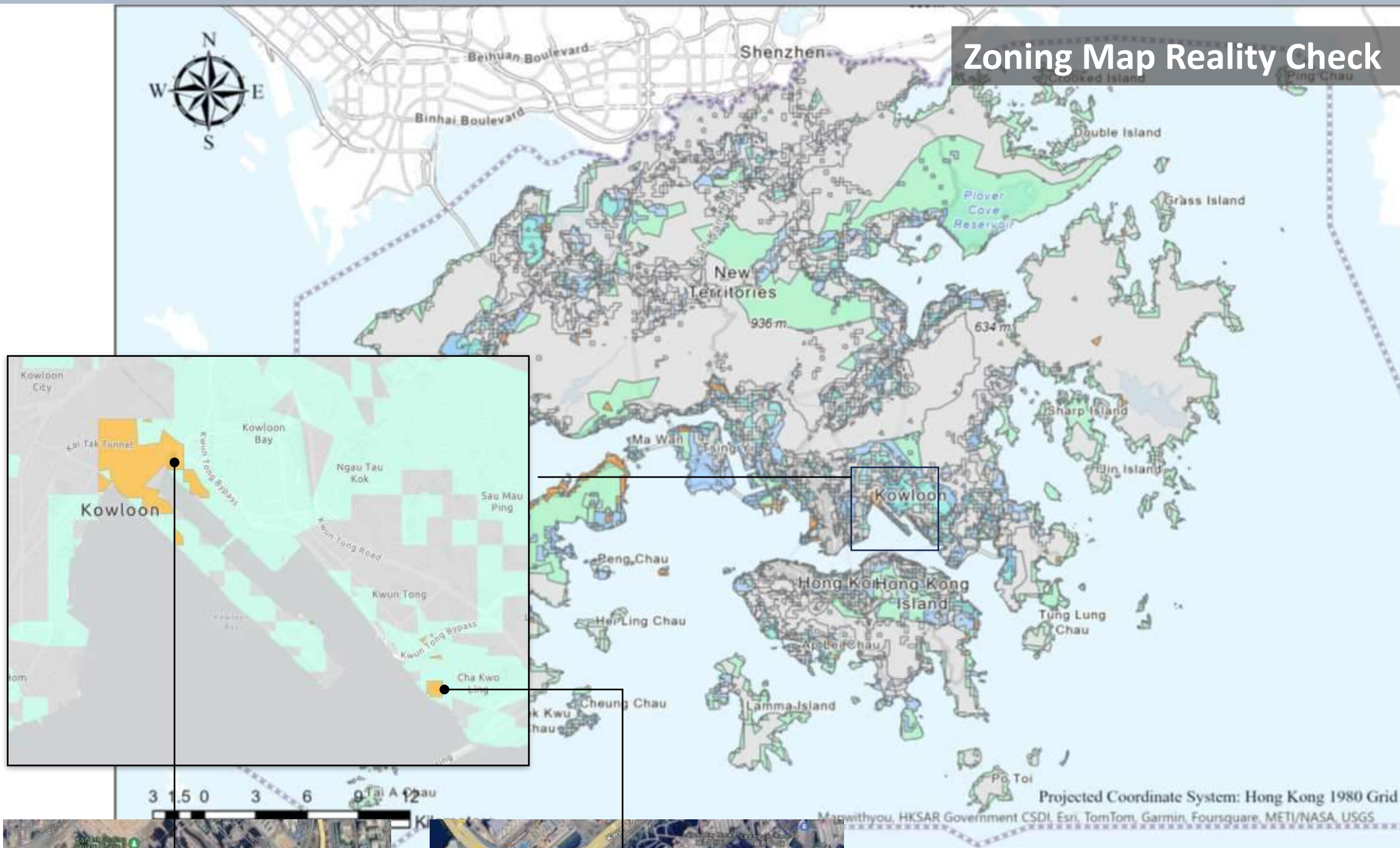
Controlled Zone

Restricted Zone



|                                    |            |      |
|------------------------------------|------------|------|
| Likelihood of Low-quality Graffiti |            |      |
| low                                | medium     | high |
| low                                | Restricted |      |
| medium                             | Controlled |      |
| high                               | Free       |      |

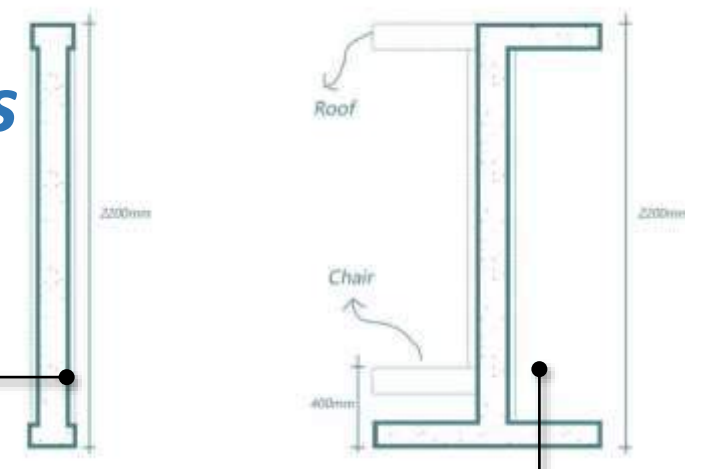




- Some free zones are **located in public spaces**
- Provide more **creative freedom**
- **Artist** — ALL Resident

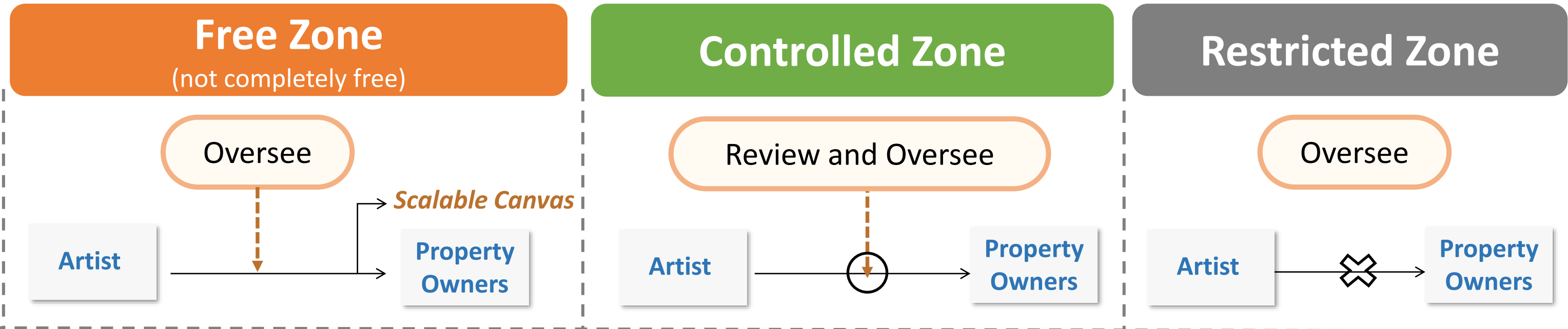


*Scalable Canvas*  
*In Free Zone*  
*for Graffiti*



## 3-Tier Zoning System

### Structure of Monitoring



### Freedom of Painting



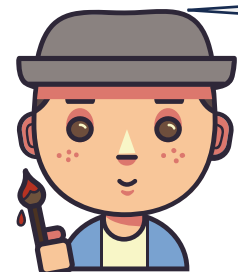
- |                     |  |  |   |
|---------------------|--|--|---|
| Freedom of Painting | <ul style="list-style-type: none"> <li>Seek permission from property owners</li> <li>Freely paint <b>on the canvas in parks</b></li> </ul> | <ul style="list-style-type: none"> <li>Seek permission from property owners (<b>Matching</b>)</li> <li>Require <b>approval</b> by the management team</li> </ul> | <p>Graffiti is <b>NOT Recommended</b></p> |
|---------------------|--|--|---|

### Mangement Work Required



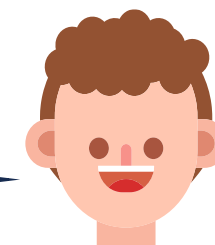
- |                         |   |  |   |
|-------------------------|---|--|---|
| Mangement Work Required | <ul style="list-style-type: none"> <li><b>Re-cover Scalable canvas every season</b></li> <li>Maintenance and rehabilitation</li> <li>Resolve conflicts</li> </ul> | <ul style="list-style-type: none"> <li><b>Approve/disapprove matching Monitoring</b></li> <li>Maintenance and rehabilitation</li> <li>Resolve conflicts</li> </ul> | <ul style="list-style-type: none"> <li>Regular <b>monitoring and inspection</b></li> <li><b>Clearing unwanted graffiti</b></li> </ul> |
|-------------------------|---|--|---|

Artist



*I want to paint! Where shall I paint? Who shall I find?*

Property Owner



*I want to decorate the walls of my property! Who shall I find? I don't know any artists!*



✓ *Link artists and property owners*  
✓ *Linking demand and supply of artworks*

Questions to think about:

- *Which body(s) are responsible for managing the "Graffiti Zones" proposed?*
- *How to manage these zones?*



✓ *Overseeing and managing art activities in the zones*  
✓ *Act as "Gatekeeper" in controlling art activities*





**Graffitease**

## Urban Art Exploration App



Artists

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## Technology Utilization

| Dataset   | Format  | Source                     |
|---|---------|----------------------------|
| Google Street View  | jpg     | Google API                 |
| Coordinate of Bus Stop Location   | shp     | CSDI                       |
| 3D Pedestrian Network   | shp     | CSDI                       |
| iB1000_Fullset_Seamless   | FGDB    | CSDI                       |
| Building  | shp     | CSDI                       |
| House Price and House Age   | csv     | Centaline Property website |
| Coordinate of MTR Station   | csv     | Open Street Map            |
| "Graffiti" Training Dataset   | jpg     | Roboflow                   |
| Coordinate of Tram Stop Location  | shp     | CSDI                       |
| Popular Tourist Points  | csv     | Hong Kong Tourism Board    |
| 2022 Raster Grids on Land Utilization                                     | GeoTiff | CSDI                       |
| 2021 Population Census Statistics (By Small Tertiary Planning Unit Group) | FGDB    | CSDI                       |
| 1:200 000 Topographic Map of Hong Kong                                    | shp     | CSDI                       |

Artificial Intelligence

Machine Learning

GIS Analysis

Mathematics

Database Management



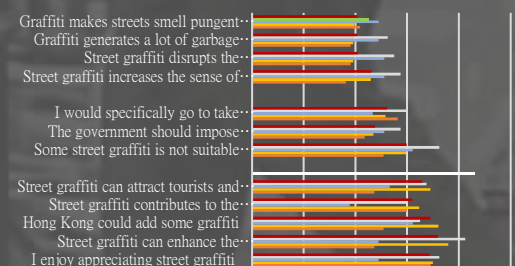
## Stakeholder Involved



Connect People Together!



Interviews & Questionnaires



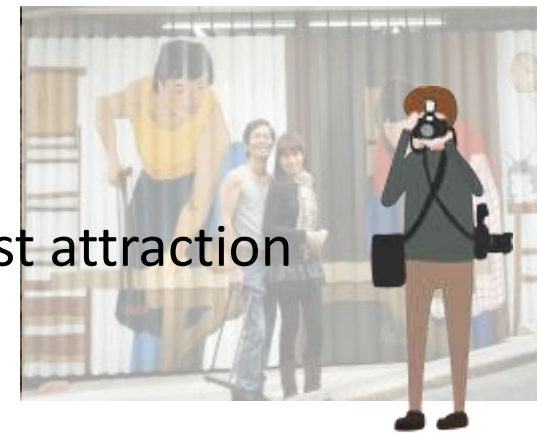
## Scalability & Flexibility

- Extend management to **other forms of street art** (e.g. busking)
- Ensuring diversity and continuity of **street artistic expression**



## Tourism

- Attract more tourist**
- Enhance the **diversity** of tourist attraction
- Benefit local **economy**



## Market potential

- Meeting **ESG** goals
- Revenue** (subscription fee)
- Advertising**
- Financial support**



## Management



On-going process in updating graffiti zoning map (e.g. 2 years)

## Streetscape

- Beautify** urban streets
- Create more **creative and public spaces**
- Make the city more **colourful**

- Ensure wall arts development **under control** by zoning system
- Raise the **quality** of street arts
- Increase citizens' **Participation and Acceptance**
- Meet the **needs of different stakeholders**

