

# EKEO & HKGBC Joint Seminar

## The Creation of a Green and Sustainable Community

Ir WAI Chi-Sing  
Permanent Secretary for Development (Works)



11 December 2014



發展局

Development Bureau

# City VS Countryside



Can we have both?



COURTESY AFCD

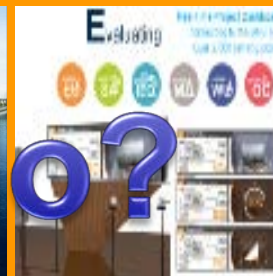


# Wise City - A Sustainable and Liveable Model for Hong Kong

**Challenges:** - *Shortage of Land*  
- *Resource Consumption and Waste Generation*

## Four Planning Principles

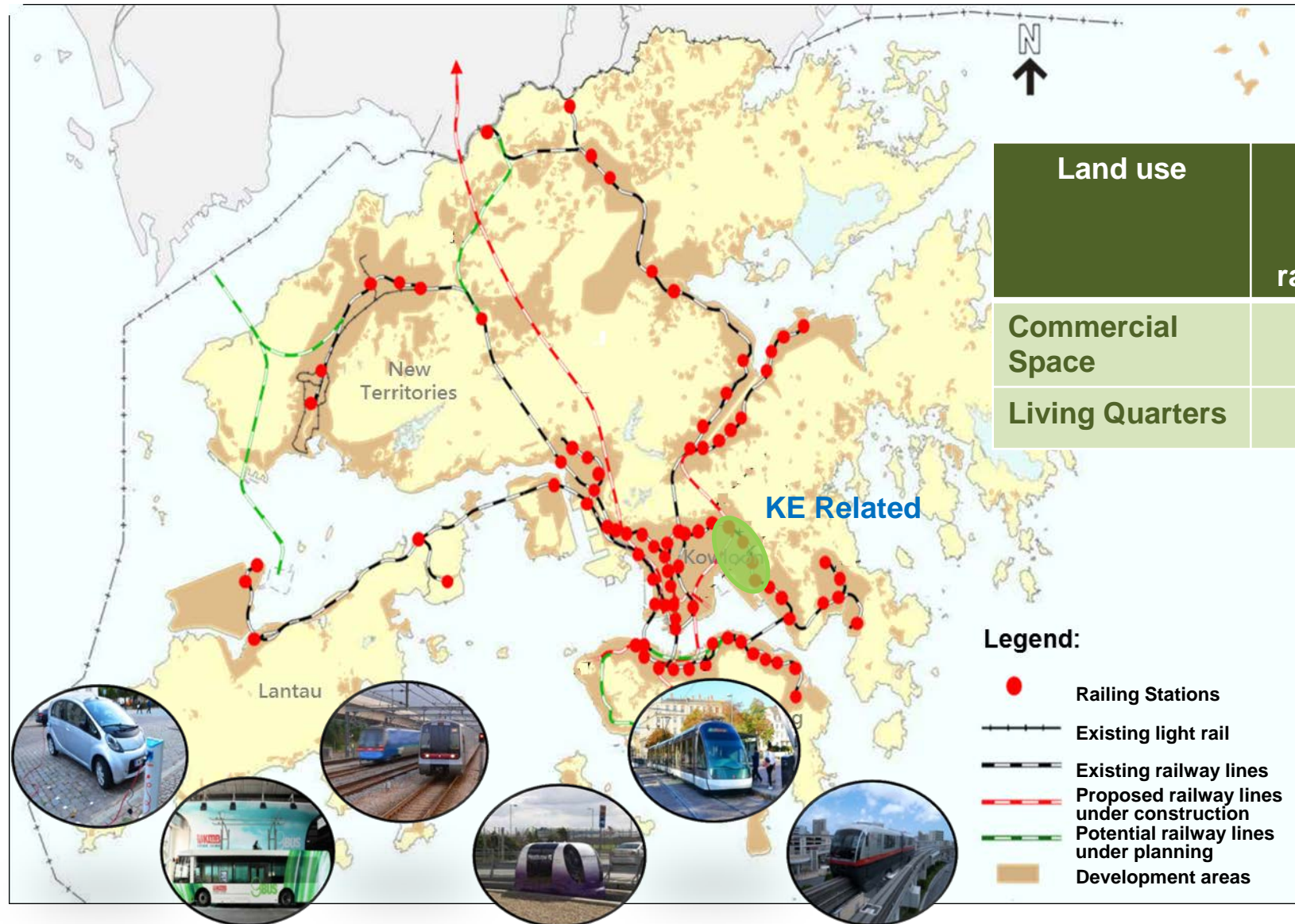
- High Density
- Low Carbon
- Smart
- Walkable



What can we do?

# Green Transportation Network

## Rail-based development model: High efficiency & Low Carbon



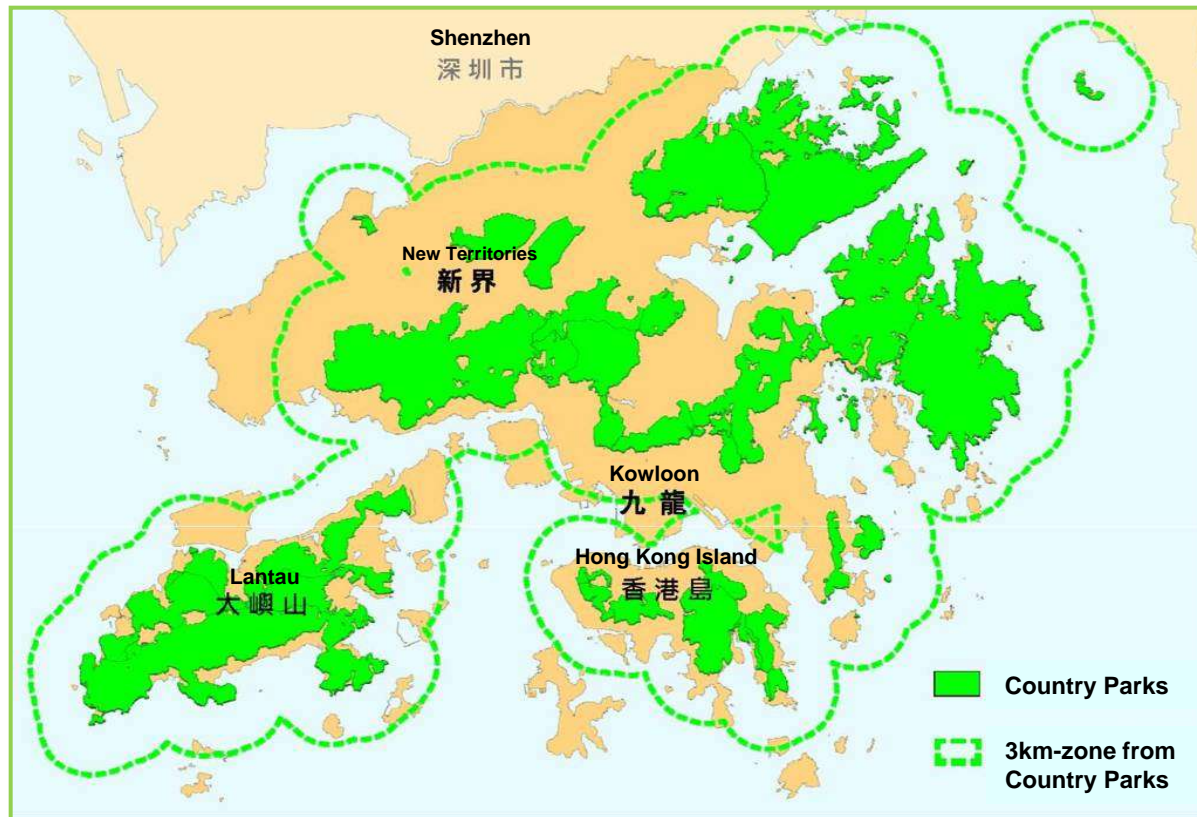


Balanced population distribution / employment opportunities

Horizontal Integration  
connected with Pedestrian Friendly Environment



90% of population will continue living within 3 km from country parks



## Biodiversity



# Urban Farming

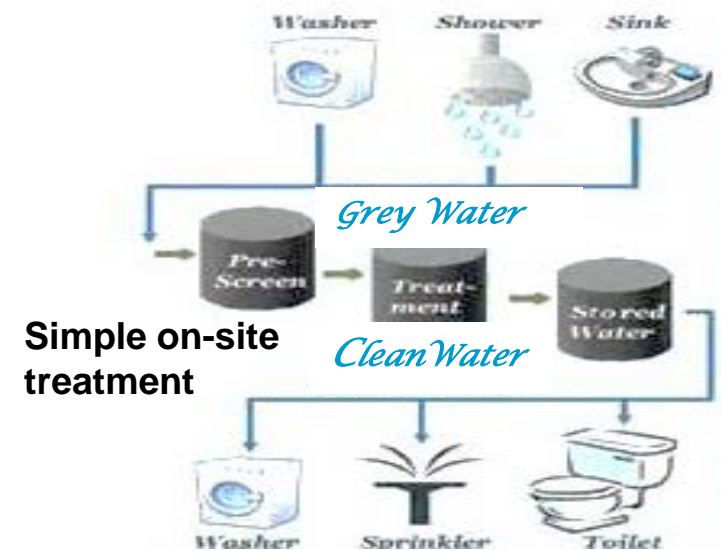
Low Carbon



### Recycled Greywater Re-use

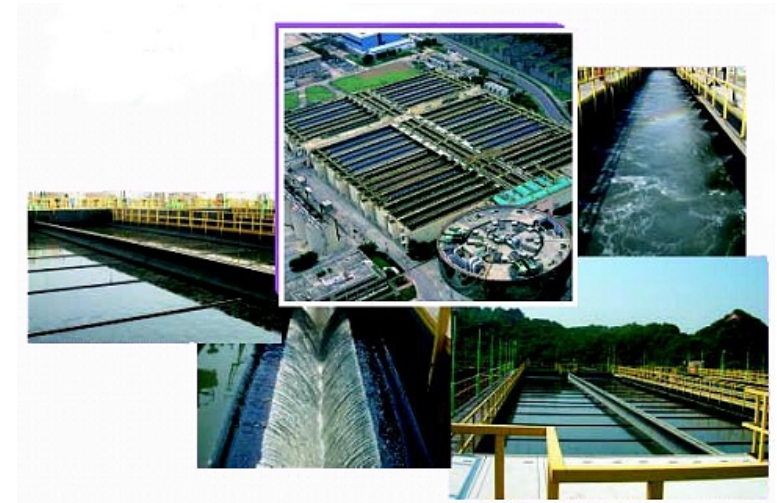
#### Advantages :

- Save the use of potable water
- Reduce the quantity of waste water to sewage treatment plant



### Treated Sewage Effluent Re-use

- Tertiary sewage treatment plant would be used
- The tertiary treated sewage will be used for flushing in toilets and for irrigation





## Policy to incentivise Green Buildings



- Under the **Buildings Energy Efficiency Ordinance (Cap 610)**, certain prescribed types of buildings have to comply with **Building Energy Code (BEC)** and/or **Energy Audit Code (EAC)**.
- **Mandatory Energy Efficiency Labelling (MEEL) Scheme**

強制性能源效益標籤計劃  
認住能源標籤  
慳電又慳錢

Mandatory Energy Efficiency Labelling Scheme  
**Look for the Energy Label  
Save Electricity, Save Money**

**ENERGY LABEL**  
能源標籤

more efficient 效益較高  
1  
2  
3  
4  
5  
less efficient 效益較低

Grade 1

Annual Energy Consumption (per Cooling)  
全年耗電量 (千瓦時/年)  
1106

Cooling Capacity (kW) (製冷量 (千瓦))  
2.54

Refrigerant (製冷劑)  
R410A

Room Air Conditioner Brand  
空調機品牌:  
ABC

Model  
型號:  
HK1234

Performance Number / Year  
資料提供號碼 / 年份  
C080123 / 2008

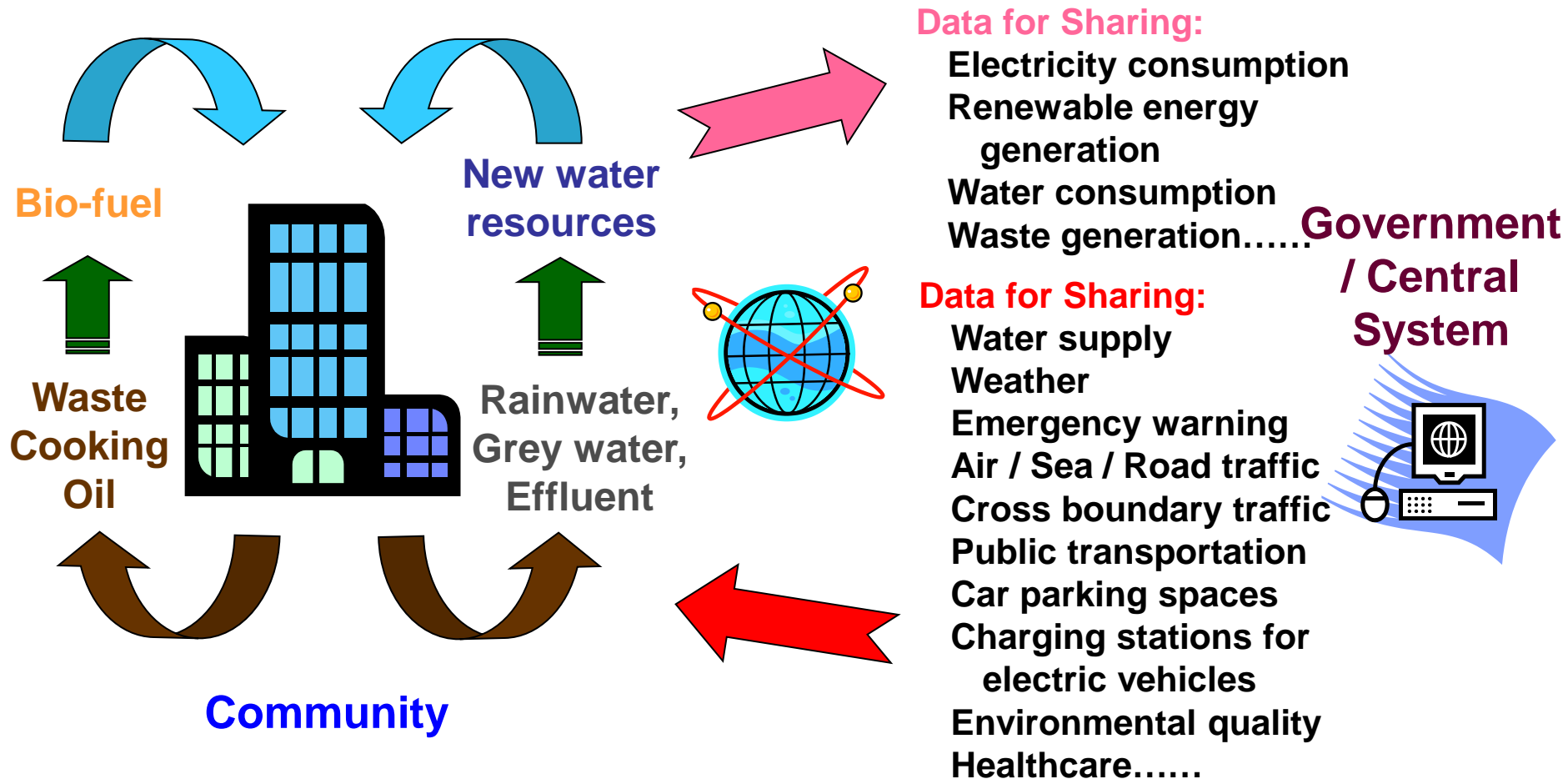
機電工程署 EMSD

機電工程署 EMSD

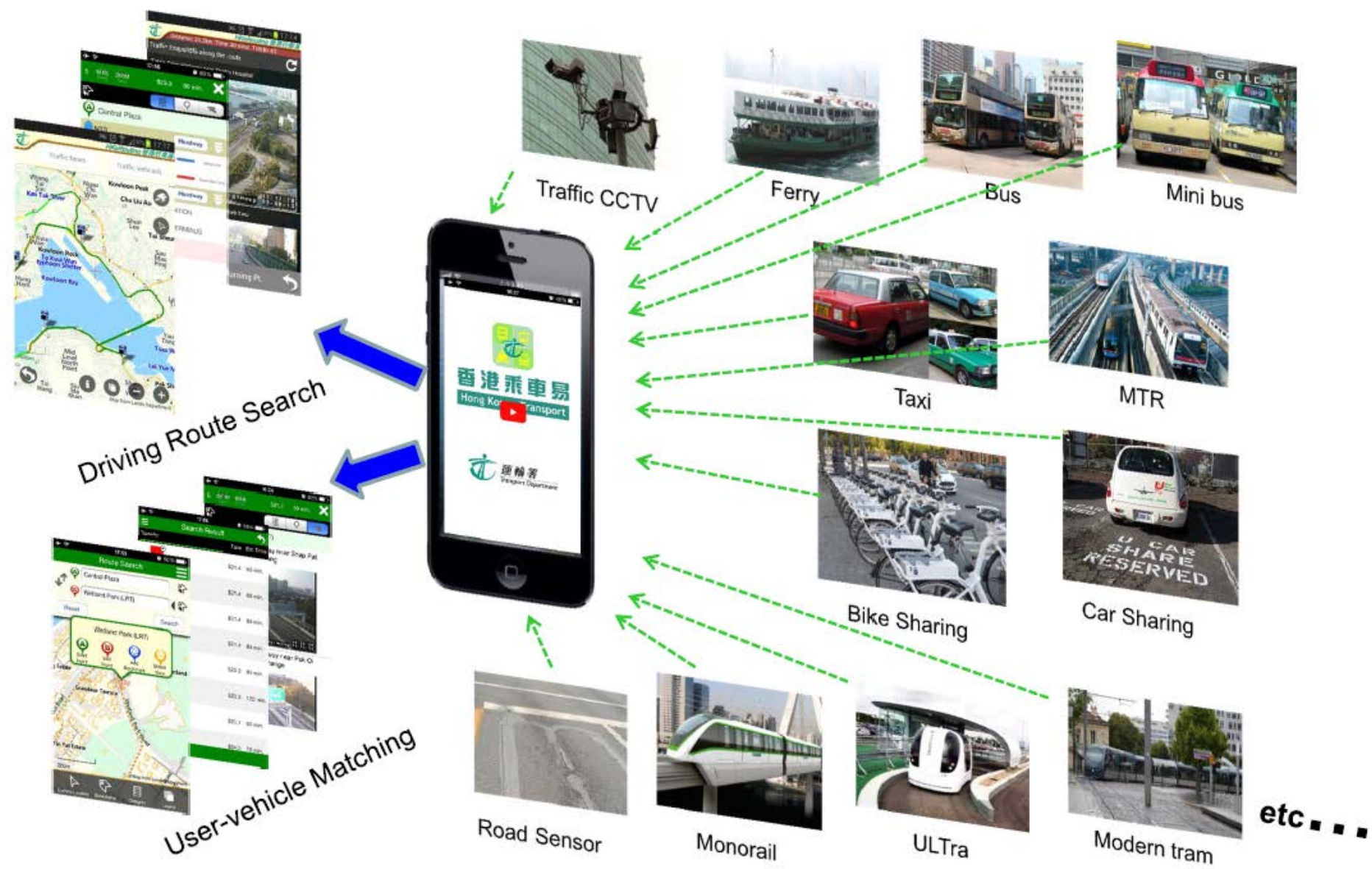


Closed-loop “wastes-to-resources” systems

IT platforms for Data sharing - facilitate city management, optimize efficiency & provide high quality public services



# Data Sharing – Transport Management





# Walkable Pedestrian Environment

Walkable

Improve walkability and connectivity



Tamar Park, Admiralty



Pedestrian Street in Causeway Bay



Avenue of Stars



Kwun Tong Promenade Phase 1

# Future Strategic Developments





# Lantau Development

## Transport Infrastructure

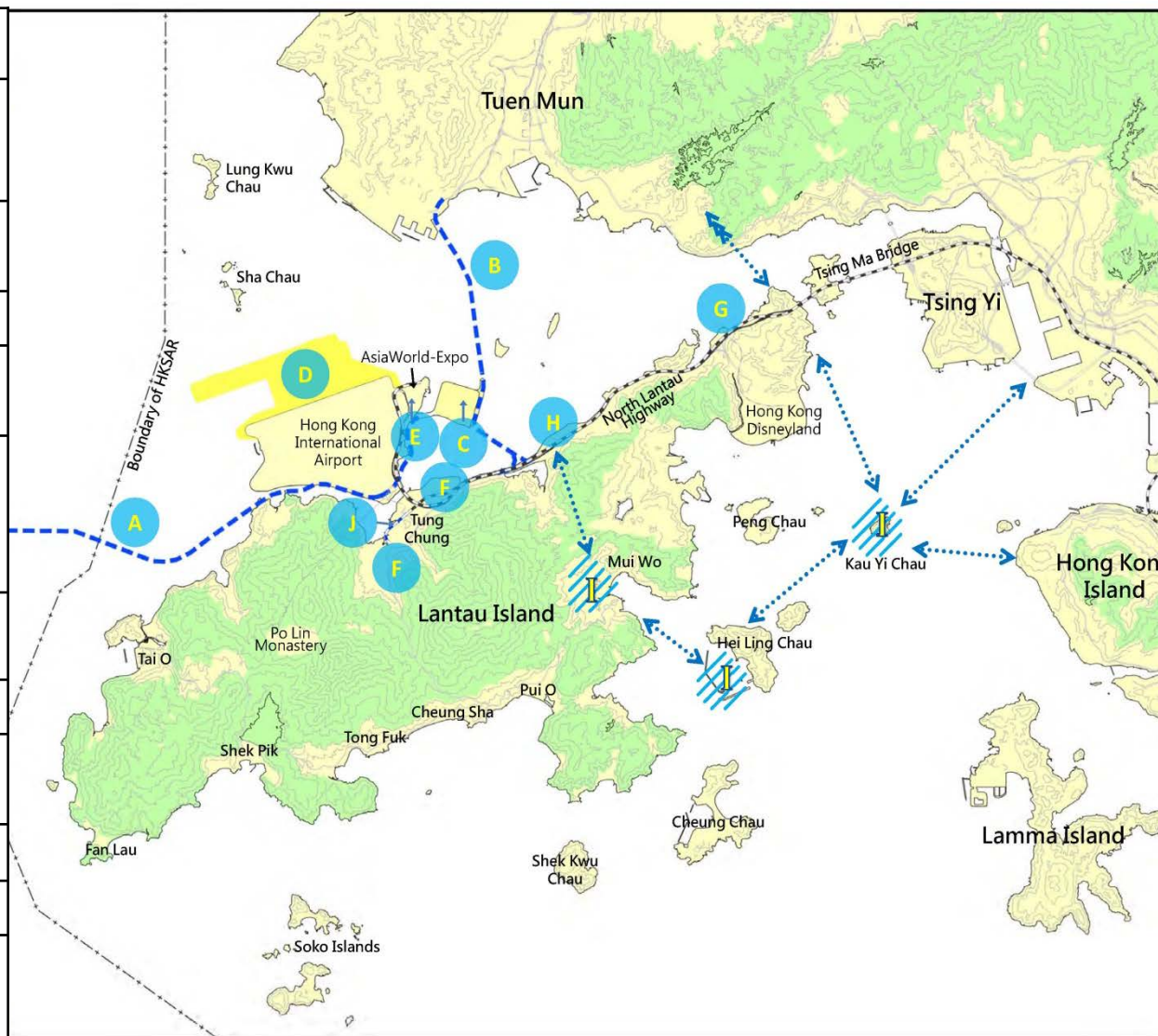
- |   |  |
|---|--|
| A | Hong Kong-Zhuhai-Macao Bridge and Hong Kong Link Road under construction |
| B | Tuen Mun-Check Lap Kok Link under Construction                           |
| C | Proposed Airport Third Runway  |

## Commercial Development and Bridgehead Economy

- |   |  |
|---|--|
| D | Proposed Topside Development at Hong Kong Boundary Crossing Facilities Island of Hong Kong-Zhuhai-Macao Bridge |
| E | Proposed Airport North Commercial District   |

## New Town and Reclamation

- |   |  |
|---|--|
| F | Proposed Tung Chung New Town Extension                                   |
| G | Proposed Siu Ho Wan Reclamation  |
| H | Proposed Sunny Bay Reclamation   |
| I | East Lantau Metropolis and Related Transport Links – Preliminary Concept |
| J | Railway Development Strategy 2014 – Tung Chung West Extension            |

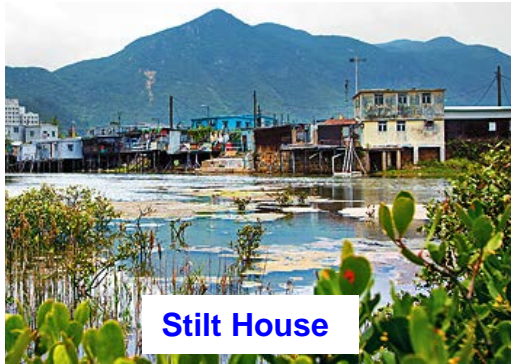


Major Infrastructure and Development Projects under Construction / Planning in Lantau

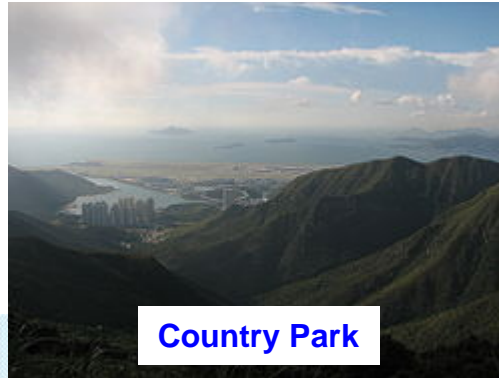
SCALE  
km 0 3 6 9 12 15



# A Treasure of Natural Assets



**Stilt House**



**Country Park**



**Chinese White Dolphins**



**Ngong Ping 360**



**Fan Lau**



**Cheung Sha**



**White Bellied Sea Eagles**



**Bogadek's Burrowing Lizard**



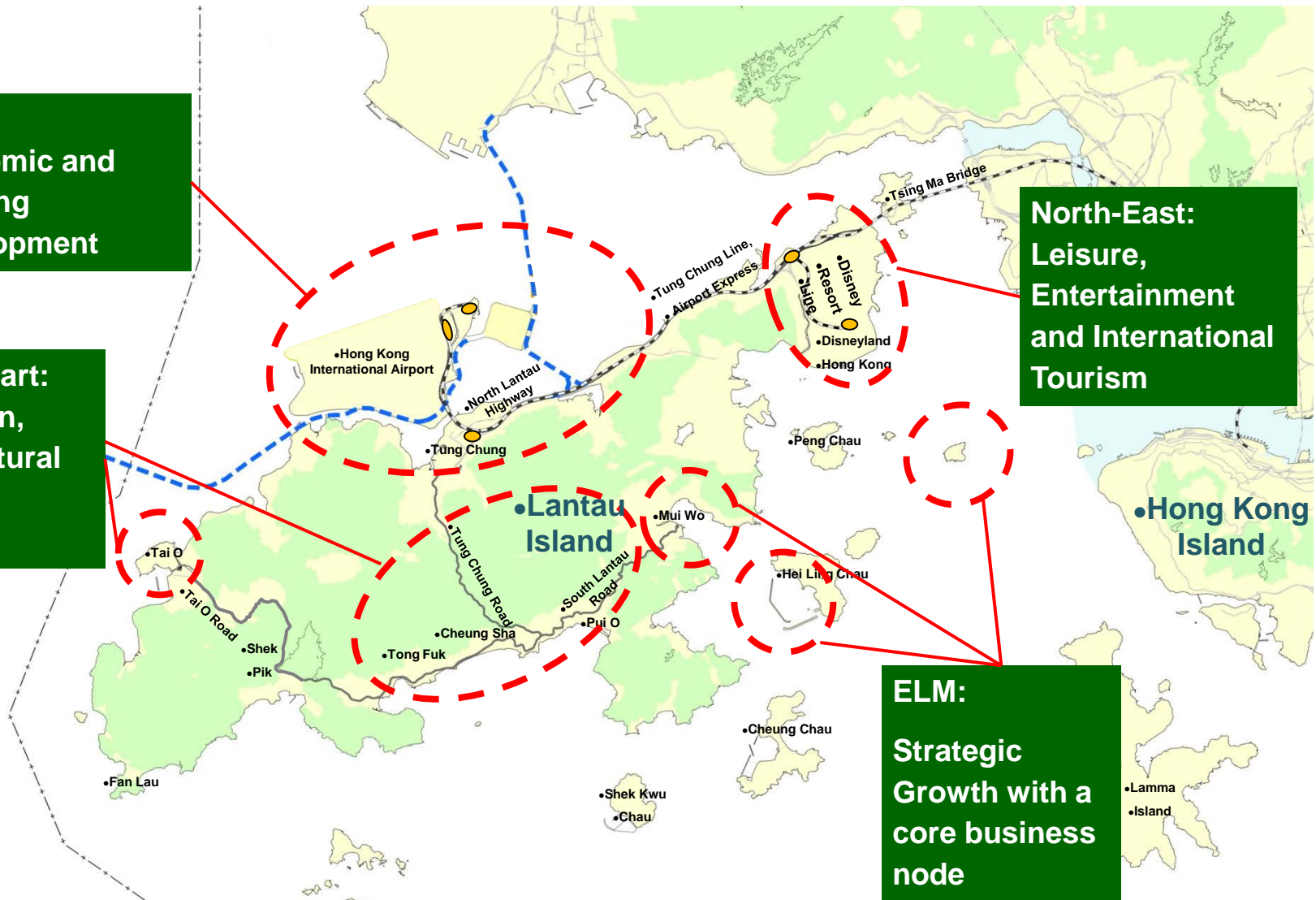
# Lantau's Development Directions

**North:**  
Economic and  
Housing  
Development

**Ecological part:**  
Conservation,  
Leisure, Cultural  
and Green  
Tourism

**North-East:**  
Leisure,  
Entertainment  
and International  
Tourism

**ELM:**  
Strategic  
Growth with a  
core business  
node



# Energizing Kowloon East





# Energizing Kowloon East

