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UNIVERSITI TEKNOLOGI MALAYSIA

UTM **LOW CARBON ASIA**
RESEARCH CENTRE



COP27
SHARM EL-SHEIKH
EGYPT 2022



COP27 JAPAN PAVILION: IGES-UNESCAP-MOEJ SIDE EVENT

Synergetic Actions from ASEAN and the Asia-Pacific towards Sustainable and Carbon Neutral Planet

ACCELERATING KUALA LUMPUR'S NET ZERO EMISSION – MALAYSIA-JAPAN PARTNERSHIP FOR WANGSA MAJU CARBON NEUTRAL GROWTH CENTRE

14 November 2022 | 1030-1200 EET (UTC+2)

LOON WAI CHAU | CHIN SIONG HO
*UTM-Low Carbon Asia Research Centre
Faculty of Built Environment and Surveying
Universiti Teknologi Malaysia
Johor Bahru, Malaysia*

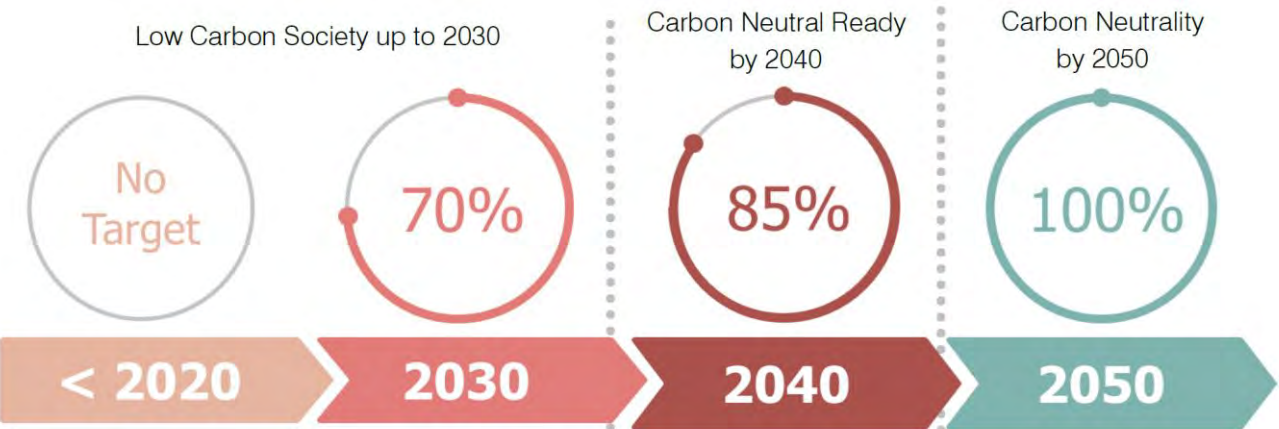
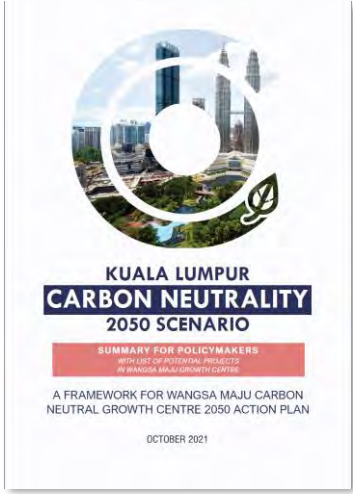
KUALA LUMPUR – LOW CARBON SOCIETY 2030



Project of developing a policy framework for building energy efficiency through city-to-city collaboration between **Kuala Lumpur** City Hall and **Tokyo** Metropolitan Government



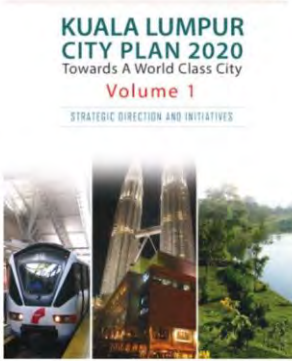
KUALA LUMPUR – NET ZERO EMISSION BY 2050



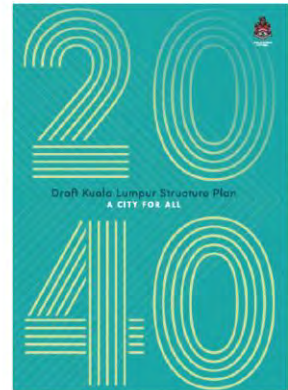
Kuala Lumpur Structure Plan 2020



Kuala Lumpur Low Carbon Society Blueprint 2030



Kuala Lumpur City Plan 2020



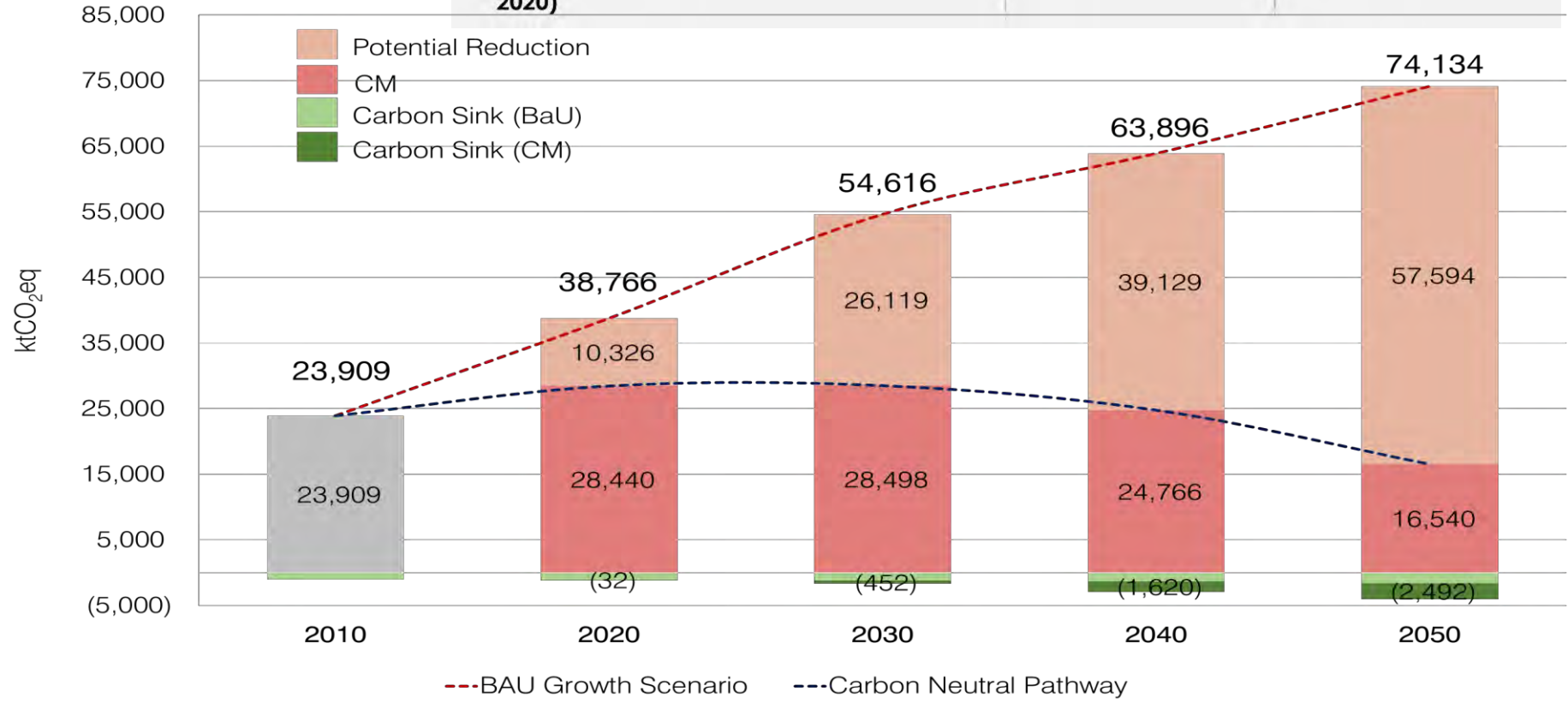
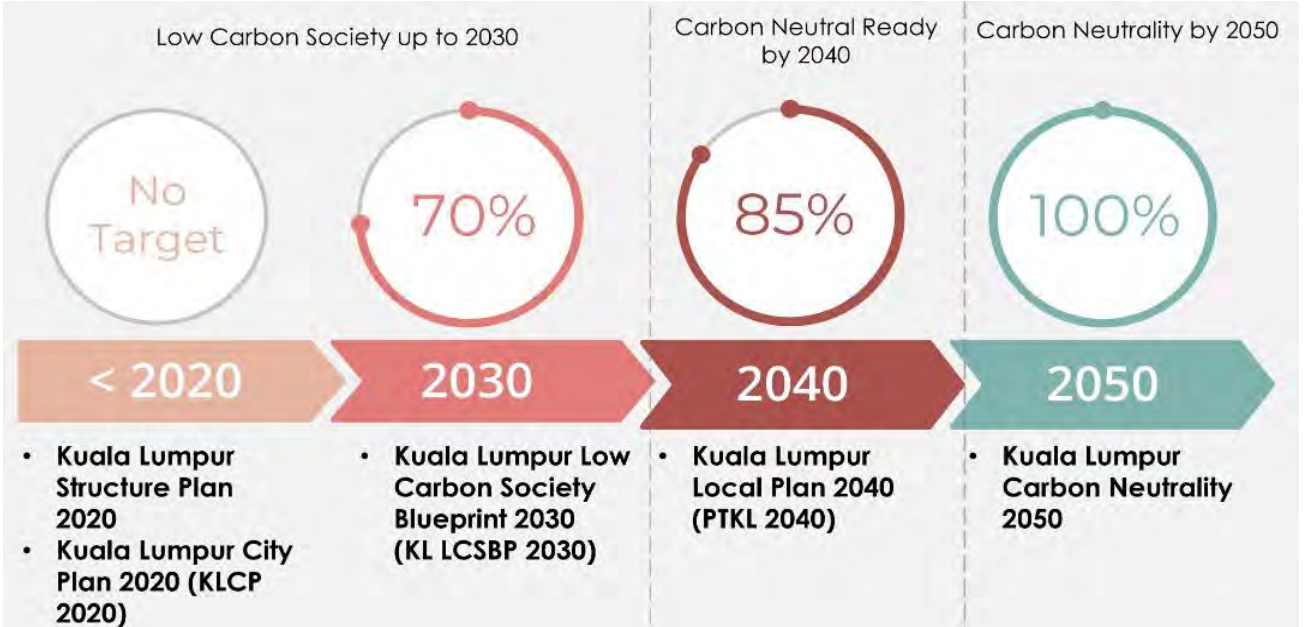
Kuala Lumpur Structure Plan 2040



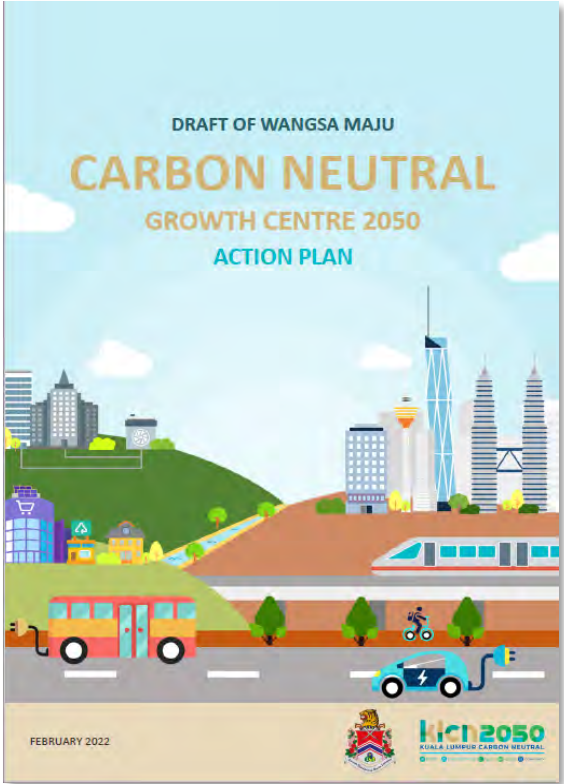
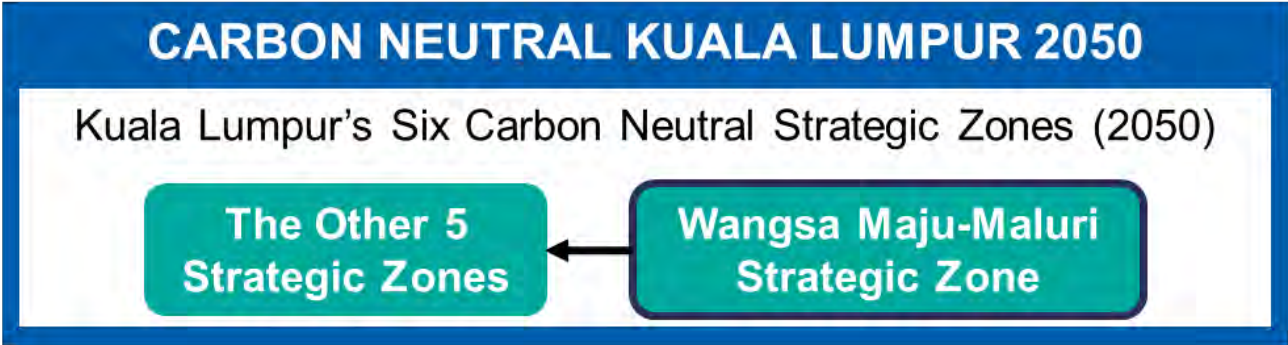
Kuala Lumpur Local Plan 2040



KUALA LUMPUR – NET ZERO EMISSION BY 2050 – GUIDED BY SCIENCE (ASIA-PACIFIC INTEGRATED MODEL)



KUALA LUMPUR – ACCELERATING TRANSITION INTO NET ZERO EMISSION



Kuala Lumpur Carbon Neutral Ready
85% GHG emissions reduction in terms of intensity of GDP by 2040 (based on 2010 emission level)

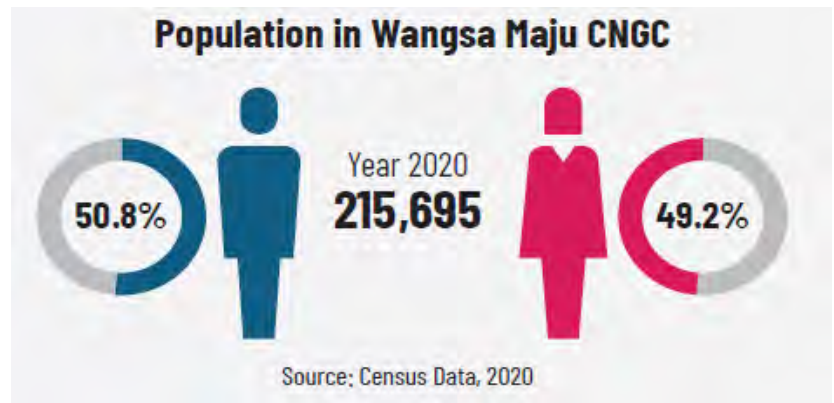
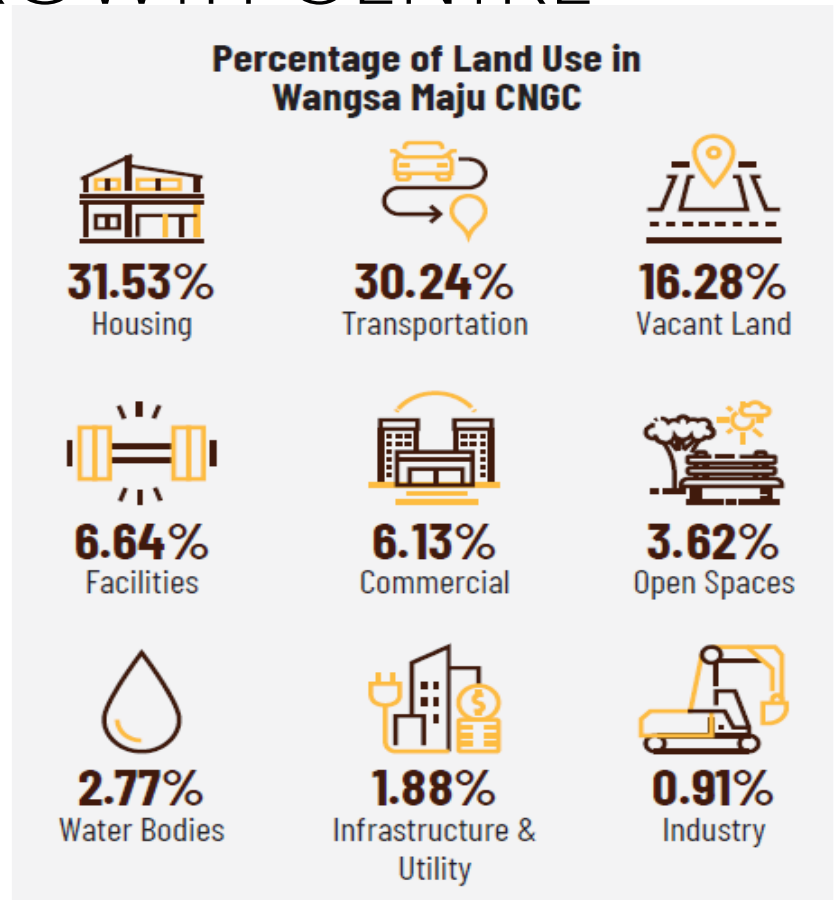
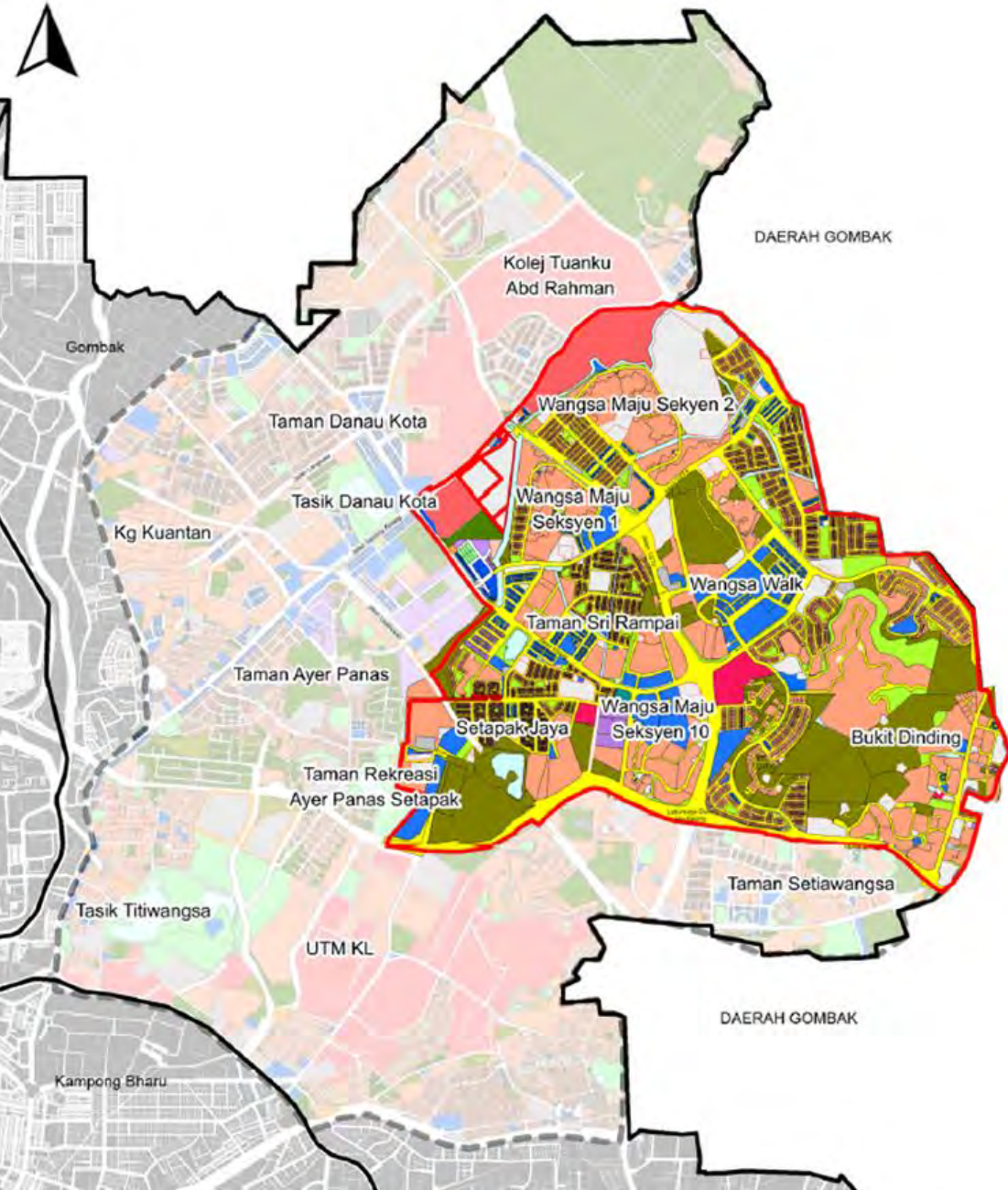


Focused Acceleration

Kuala Lumpur Low Carbon Society
70% GHG emissions reduction in terms of intensity of GDP by 2030 (based on 2010 emission level)

- Statutory Development Plans
- Climate Policy/Plan/Program

WANGSA MAJU CARBON NEUTRAL GROWTH CENTRE



WANGSA MAJU CARBON NEUTRAL GROWTH CENTRE

Develop the Wangsa Maju Growth Centre into a thriving, prosperous, carbon neutral urban precinct, serving as a pioneer showcase that is up-scalable to other Kuala Lumpur Strategic Zones for a progressive transformation of Kuala Lumpur into a carbon neutral city by 2050.

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TheStar Shaping KL's first low-carbon township

Shaping KL's first low-carbon township

By BAVANI M

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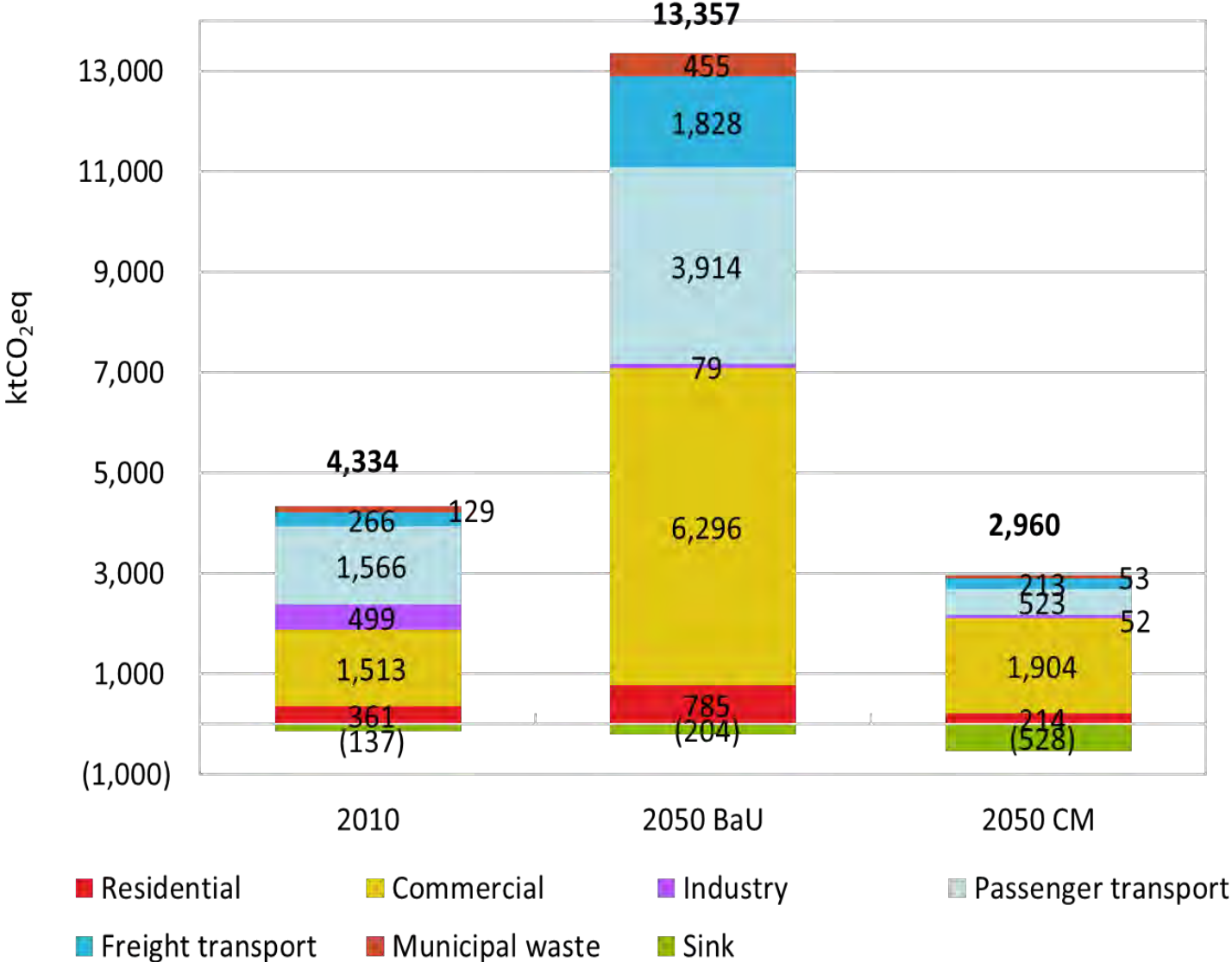


Starting point: Aerial view of Section 1 in Wangsa Maju, which is one of the largest townships in the city and is well-planned with new growth centres. — IZZRAFIQ ALIAS/The Star

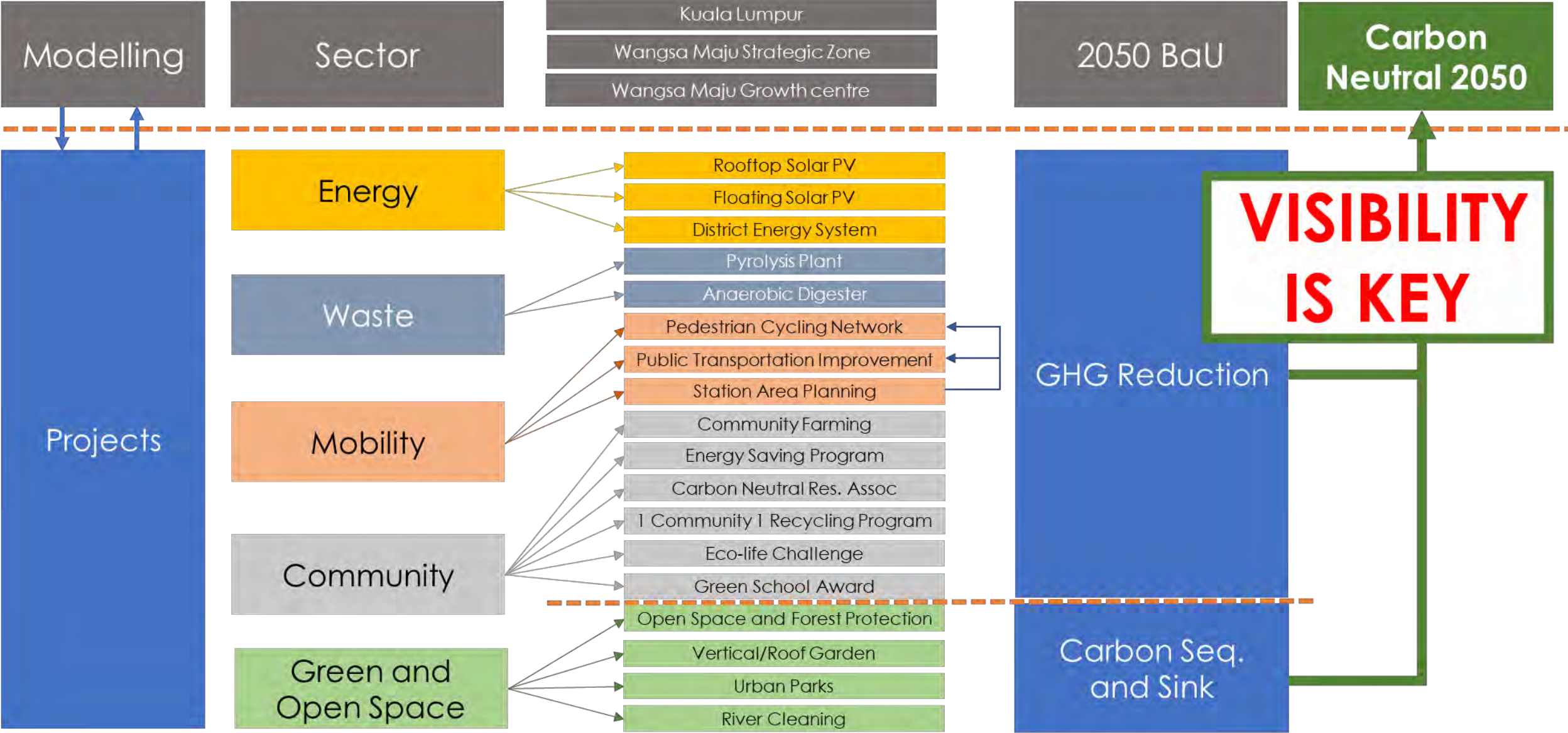
Kuala Lumpur City Hall has identified Wangsa Maju's Section 1 for its pilot project and hopes to impress stakeholders in other areas on the long-term benefits of switching to green technology to address climate change.



WANGSA MAJU CARBON NEUTRAL GROWTH CENTRE – GUIDED BY SCIENCE (ASIA-PACIFIC INTEGRATED MODEL)



WANGSA MAJU CNGC – OVERALL PROJECT FRAMEWORK



WANGSA MAJU CNGC – 20 PROJECTS



Energy



Mobility



Waste



Community



Green & Open Space

- (1) Solar on Infrastructure
 - 1a. Rooftop Solar PV
 - 1b. Solar for Pedestrian Mist
- (2) Floating Solar PV
- (3) District Energy System

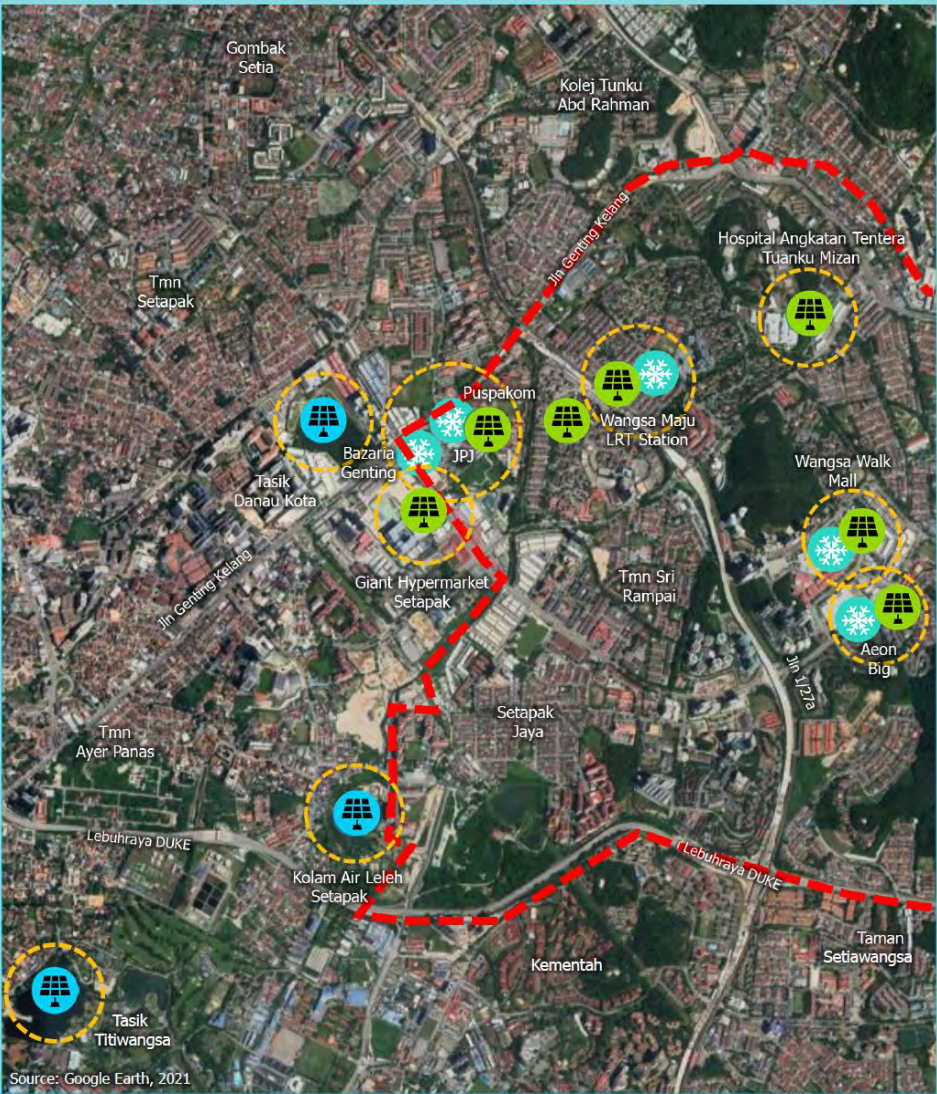
- (4) Anaerobic Digester
- (5) Waste Composting Plant
- (6) Waste Recycling Points

- (7) Open Space and Forest Protection
- (8) Vertical/Roof Garden
- (9) Linear Urban Parks
- (10) River Cleaning

- (11) Pedestrian Cycling Network
- (12) Public Transportation Improvement
- (13) Station Area Planning

- (14) Eco Park
- (15) Community Farming
- (16) Introduce Community Water and Energy Saving Program
- (17) Transforming the Existing Resident Association into Carbon Neutral Community
- (18) Zero Waste Community
- (19) Carbon Neutral Challenge Program in Schools
- (20) Strengthen School Community through Concentrated Efforts

WANGSA MAJU CNGC – 20 PROJECTS EXAMPLES

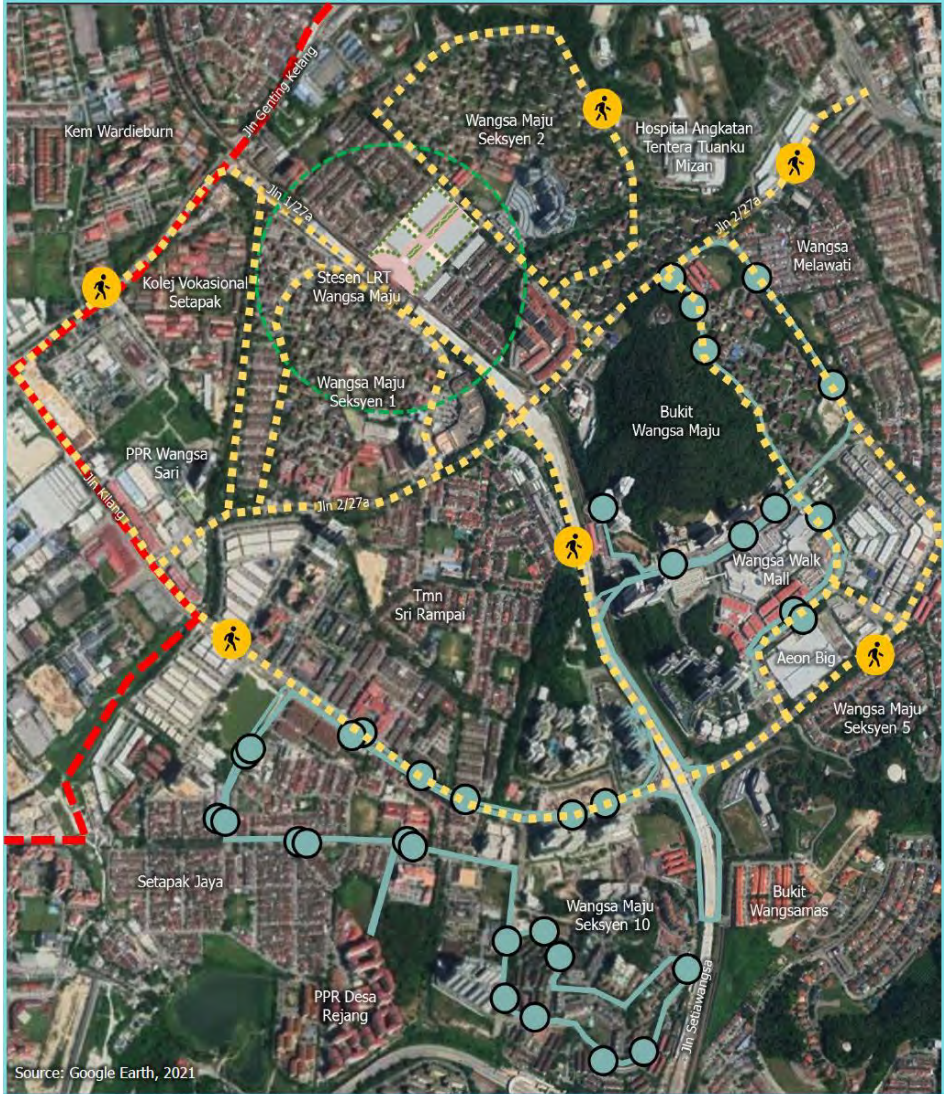


Legend:

- Solar on Infrastructure
- Floating Solar PV
- Districts Cooling System
- Potential locations
- Wangsa Maju CNGC Boundary

KICM2050
KUALA LUMPUR CARBON NEUTRAL

THE THREE (3) PROPOSED INITIATIVES OF ENERGY SECTORS



Legend:

- Bus Station
- Station Area Planning (400 m)
- Pedestrian & Cycling Network
- EV Bus Route
- Wangsa Maju CNGC Boundary

KICM2050
KUALA LUMPUR CARBON NEUTRAL

THE THREE (3) PROPOSED INITIATIVES OF MOBILITY SECTORS

WANGSA MAJU CNGC – 20 PROJECTS EXAMPLES



GoKL City Bus free bus service to go fully electric by early 2023, using 60 Malaysian-made SKS EV buses



www.dbkl.gov.my

This is **ELECTRICBUS**

WANGSA MAJU CNGC – 20 PROJECTS EXAMPLES



WANGSA MAJU CNGC – EXPANDING PARTNERSHIP



High Level Talks on Zero Carbon City Kuala Lumpur

T2KLLCS

TOKYO TO KUALA LUMPUR LOW CARBON SYSTEM

A case for successful city-to-city collaboration towards accelerating net-zero transition

Ho Chin Siong
Chau Loon Wai

08 August 2022

High Level Talks on Zero Carbon City Kuala Lumpur

Developing an Institutional Framework Towards Kuala Lumpur Zero Carbon City and Neighborhood in Collaboration with Tokyo Metropolitan Government and Saitama City

DATE : 8th August 2022
TIME : 10:30-12:00 (MYT) , 11:30-13:00 (JST)
VENUE : Anjung Singgahsana Kuala Lumpur City Hall

Beyond T2KLLCS...

Smart City **さいたま市**
Saitama Model

TOKYO METROPOLITAN GOVERNMENT

Zero Emission Tokyo Strategy **2050**

Wangsa Maju Carbon Neutral Growth Centre

Carbon Neutral Kuala Lumpur Vision **2050**

WANGSA MAJU CNGC – EXPANDING PARTNERSHIP WITH TMG, IGES, SAITAMA CITY



T2KLLCS AND WANGSA MAJU CNGC – CELEBRATING A SUCCESSFUL PARTNERSHIP



Addis Ababa Amsterdam Beijing
Dhaka North Freetown Irvine Lima
Lisbon Metropolitan Area of Guadalajara
New York Pune Quezon City Quito Renca
Rio de Janeiro São Paulo Seattle Seoul
Tokyo-Kuala Lumpur Wuhan

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THANK YOU!

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