

# LOW CARBON SOCIETY BLUEPRINT

## LOW CARBON SUCCESS STORIES BY CITY OF KUALA LUMPUR

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EXECUTIVE DIRECTOR (PLANNING)  
CITY PLANNING DEPARTMENT  
KUALA LUMPUR CITY HALL  
13.JULY 2021

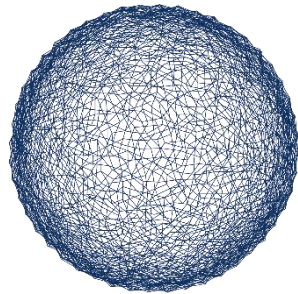
70 BY 30  
A GREENER BETTER  
KUALA LUMPUR



KUALA LUMPUR  
LOW CARBON SOCIETY BLUEPRINT 2030

# WHY GO FOR LOW CARBON?

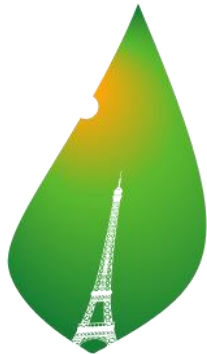
## MALAYSIA COMMITMENT



COP15  
COPENHAGEN  
UN CLIMATE CHANGE CONFERENCE 2009

“..Malaysia is adopting an indicator of a voluntary reduction up to **40% in terms of emission intensity of GDP** by the year 2020 compared to 2005 levels.”

- **COP15 Copenhagen December 2009**



PARIS2015  
UN CLIMATE CHANGE CONFERENCE  
COP21·CMP11

“..Reduction up to **45% in terms of emission intensity of GDP** by the year 2030 compared to 2005 levels as indicated in INDC submitted to COP21.”

- **COP21 Paris December 2015**



**Kuala Lumpur Low Carbon Society Blueprint 2030**  
**OVERVIEW**



**Kuala Lumpur Low Carbon Society Blueprint 2030**  
**OBJECTIVES**



# **Kuala Lumpur Low Carbon Society Blueprint 2030**

**AIM**

**LOW CARBON SUCCESS STORIES BY  
CITY OF KUALA LUMPUR**

# 10 MAIN ACTIONS IDENTIFIED IN LOW CARBON SOCIETY'S BLUEPRINT





# Action 1 Green Growth



# CARRYING OUT GREEN SERVICE PROCEDURES AND PROCESSES

KLIS

[Laman Utama](#)

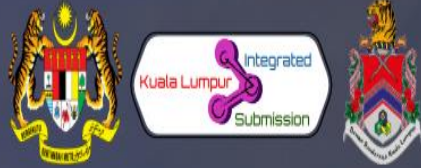
[Log Masuk](#)

[Pengguna Baru](#)

[Permohonan](#)

[Apa Itu KLIS?](#)

[Hubungi Kami](#)



Kuala Lumpur Integrated Submission  
Projek Berskala Kecil Kediaman  
Dewan Bandaraya Kuala Lumpur

Selamat Datang Ke KLIS

[Pendaftaran Pengguna](#)

[Lupa katalaluan](#)

## MOBIS



Memudahkan anda untuk menyemak dan membuat bayaran secara atas talian



Notis Kompaun Trafik DBKL

Cukai Taksiran DBKL



Memperbaharui Lesen DBKL



Navigasi ke kaunter pembayaran yang terdekat dengan anda



Membuat panggilan terus ke hotline DBKL



# CAPACITY DEVELOPMENT TOWARDS A LOW CARBON SOCIETY



**CITYNET** **IFUC** **GLOBAL COVENANT OF MAYORS CLIMATE & ENERGY**

PROGRAMME BOOK

## KLRTC XXXIII & CITYNET INFRASTRUCTURE CLUSTER

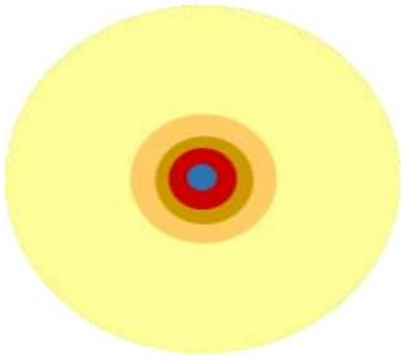
"EMISSION REDUCTION AND LOW CARBON SOCIETY"

- ▶ 21<sup>st</sup> - 24<sup>th</sup> APRIL 2019
- ▶ KUALA LUMPUR | MALAYSIA

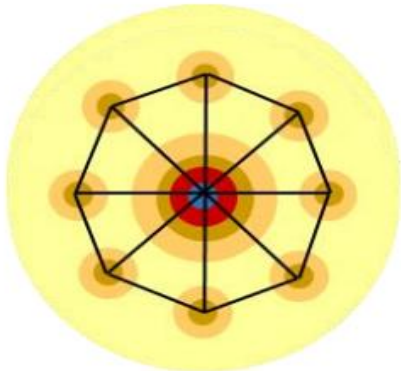


# Action 2 Energy Efficient Spatial Structure

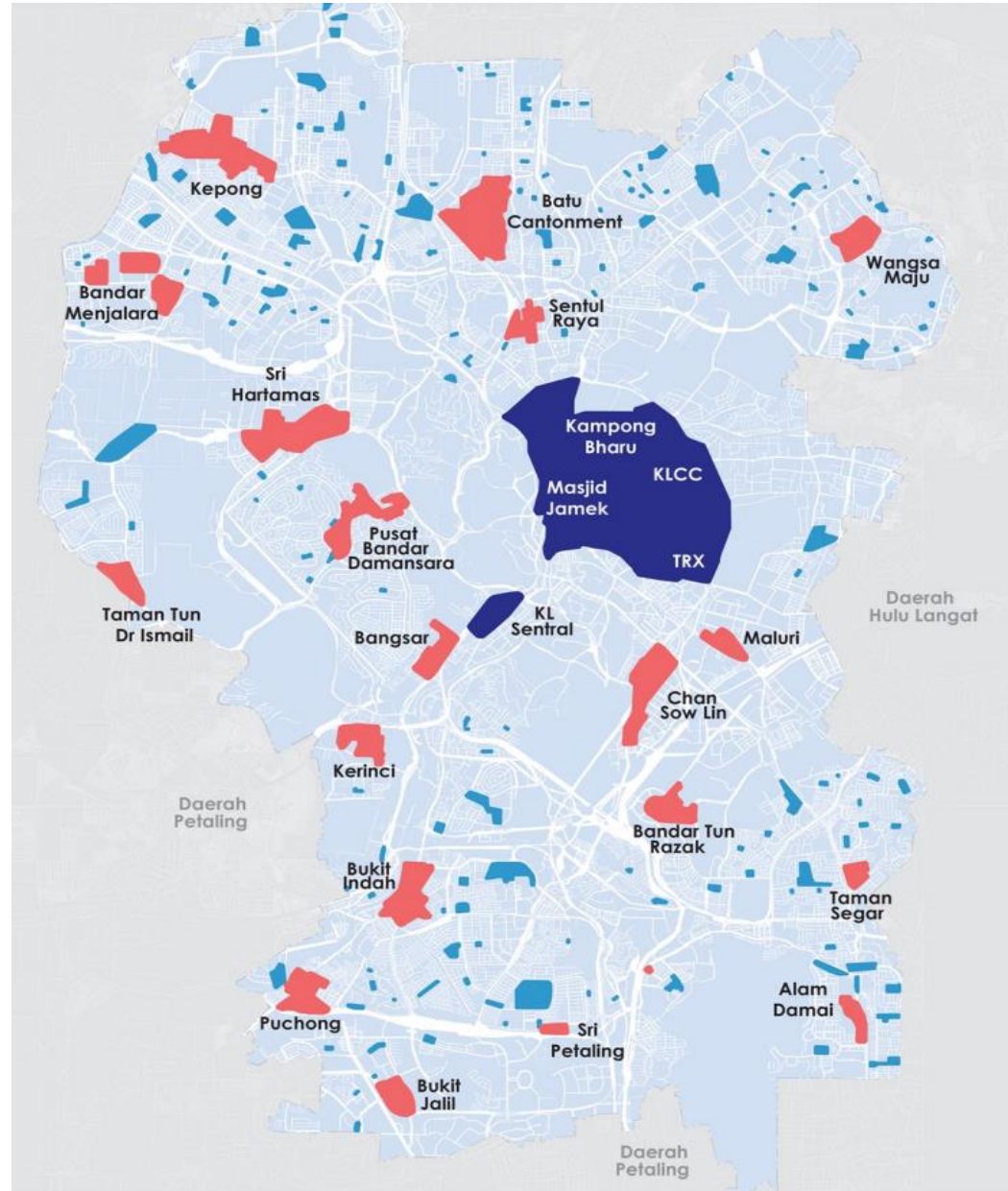
# PROMOTING GROWTH PATTERNS OF VARIOUS CENTERS



BANDAR DENGAN PINGGIR BANDAR

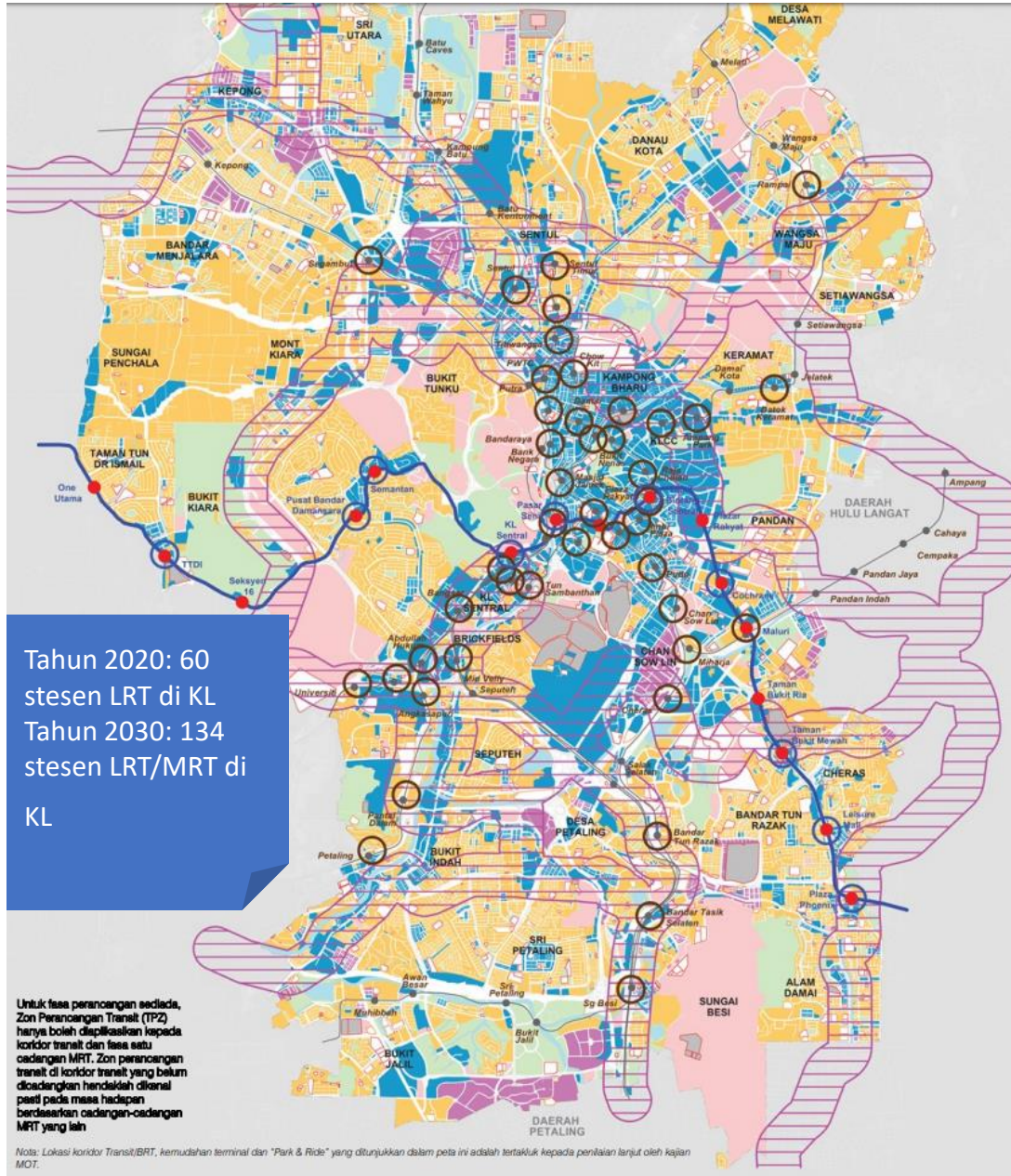


BANDAR DALAM BANDAR



Pusat Bandar Pusat Daerah Pusat Tempatan

# PROMOTING LAND USE PLANNING THAT SUPPORTS TRANSIT



# PEDESTRIAN AND BICYCLE FRIENDLY URBAN AREA



Menambah Baik Kesalinghubungan Rangkaian Pejalan Kaki



Menyediakan Laluan Pejalan Kaki yang Selesa dan Selamat



Membina Ruang Awam dan Persekitaran Pejalan Kaki yang Berkualiti



Menyediakan Rangkaian Berbasikal yang Selamat dan Selesa



Pencegahan Jenayah Melalui Reka bentuk Persekitaran (CPTED)

DRAFT FINAL REPORT

## KUALA LUMPUR PEDESTRIAN AND CYCLING MASTER PLAN 2019-2028



MEMARA DIRJL 1, JALAN BAJA LAUT 60500 KUALA LUMPUR, MALAYSIA  
DEWAN BANDARAYA KUALA LUMPUR

# MAKING URBAN SPACE A PUBLIC SPACE



Lorong Yap Ah Loy



Lorong belakang Jalan Changkat/  
Bukit Bintang

Lorong sisi Jalan Berangan

Jalan Rembia

# PLANTING ROAD SIDE TREES AS SHADE





# ELECTRICAL VEHICLE and CARBON NEUTRAL GROWTH CENTRE

malaymail.com.my  
 2020-11  
 NEWS | MALAYSIA | SINGAPORE | WORLD NEWS | LIVE | BUSINESS | SPORTS | OPINION | ARTS | TECHNOLOGY | EDUCATION | TRAVEL | HEALTH | HOUSING

**DBKL to allocate reduced Budget of RM2.653b for 2021, says mayor**



**KUALA LUMPUR, Dec 17** — Kuala Lumpur City Hall (DBKL) is allocating RM2.653 billion for Budget 2021 to improve urban infrastructure for the well-being and prosperity of city dwellers, says its mayor Datuk Mohd. Dzaripuzi Yusoff.

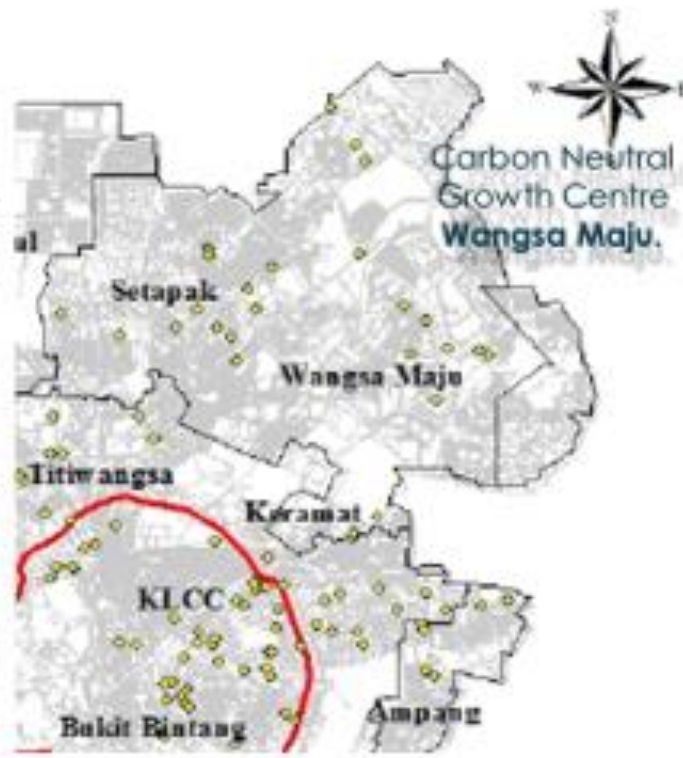
However, the Budget is less than the year's allocation of RM3.872 billion in 2020, a cut affected by the Covid-19 pandemic.

Mayor said the Budget formed, Targeted Budget (under Government) comprised RM1.362 billion (51.4 per cent) for operating expenditure and RM2.911 billion (50.6 per cent) for development expenditure.

To ensuring the road and drainage infrastructure is in the best condition, DBKL provided over RM100 million for projects related to road, train, street and drainage throughout the city.

The Sultan Abdul Aziz Centre for Economic Research and the Federal Reserve Bank of Malaysia

**KUALA LUMPUR Dec 17, 2020:**  
 “Meanwhile, he said, KLCH aimed to reduce the intensity of greenhouse gas emission up to 70 per cent by 2030 by using solar energy for its buildings starting from the end of next year and **electrical power for the GO KL bus service.**”



**KLCH is creating a Carbon Neutral Growth Centre in Wangsa Maju**

kyBlue  
MEDIA

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ADVERTISE  
WITH US

info@genad.com.my  
+603 6206 2008

Action 3

Green Mobility



FROM PRODUCER  
J.J. ABRAMS

KUALA

UP

KUALA LUMPUR

# ENCOURAGING WALKING AND CYCLING FOR SHORT AND MEDIUM DISTANCE TRAVEL



# ENCOURAGING CYCLING ACTIVITIES

KL MAYOR GREEN RUN-



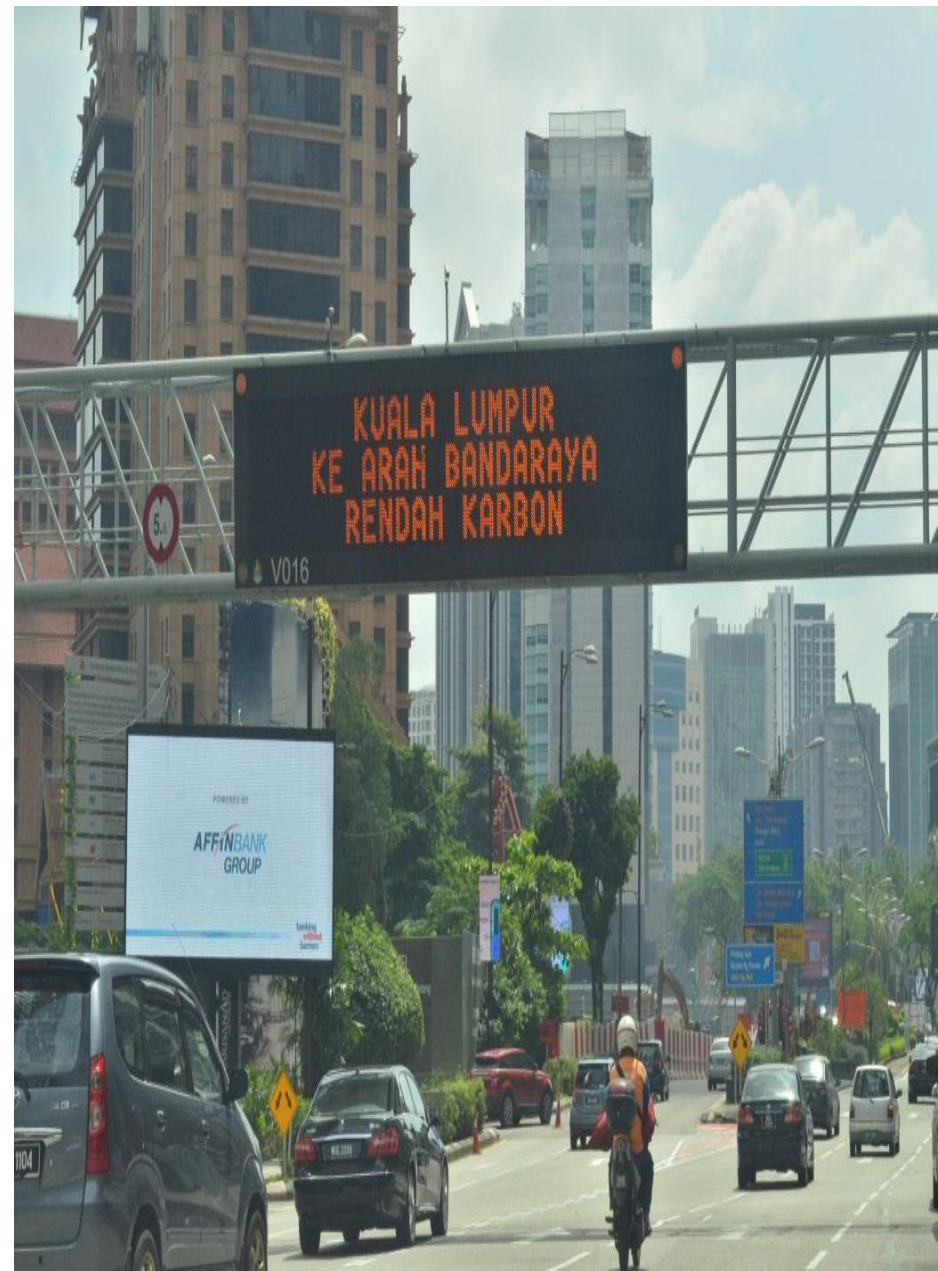
KLRTC FUN RUN



# PROMOTION OF LOW CARBON VEHICLES



# IMPROVING TRAFFIC CONDITIONS AND PERFORMANCE



The image shows a landscape with several high-voltage power lines and towers. The towers are steel lattice structures, and the lines stretch across the sky. The foreground is a grassy field, and the background shows a line of trees under a cloudy sky. A blue horizontal band is overlaid on the image, containing the text.

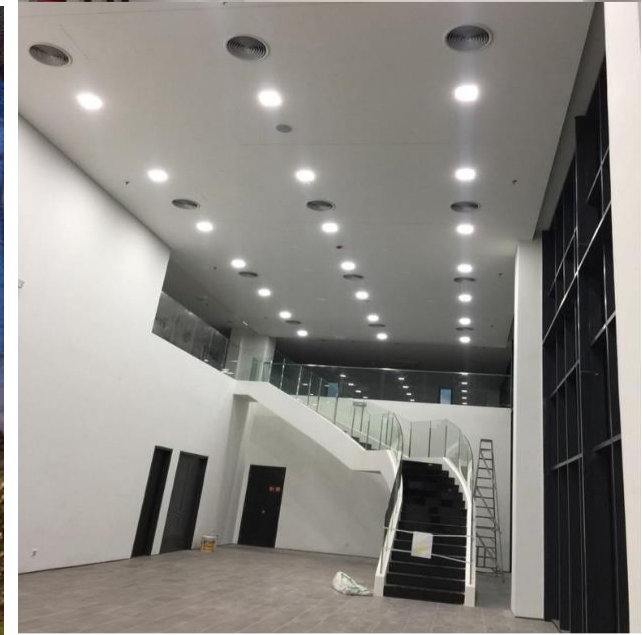
# Action 4 Sustainable Energy System

# CONSUMPTION OF RENEWABLE ENERGY - (SOLAR ENERGY)





# IMPROVEMENT OF ENERGY EFFICIENT SYSTEMS





**Action 5**  
**Community Engagement and**  
**Green Lifestyle**



# PUBLIC PARTICIPATION



Kebun Bandar PPR Intan Baiduri

Kebun Kejiranan Bandar PA Seri Perlis 2

Harmoni Agro PA Seri Sabah 3A



# Action 6 Low Carbon Green Building

# LOW CARBON GREEN BUILDINGS



# **LOW CARBON GREEN BUILDINGS**





# Action 7 Green & Blue Network

TRADERS  
HOTEL



# GREEN COVER PROTECTION



# ONE RESIDENT, ONE TREE PROGRAM

PROGRAMME CSR WITH GUARDIAN

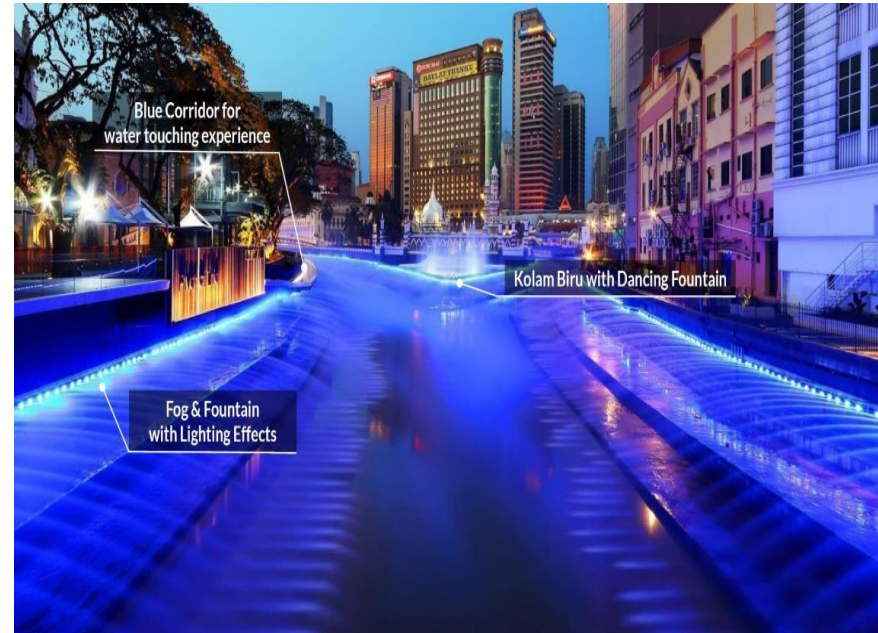


PROGRAMME CSR WITH LIONS CLUB



PROGRAMME CSR WITH OCBC BANK

# INCREASING THE NEW WATER ELEMENT



# CREATING 'LINEAR PARKS'



ROL PRECINT 7

# Action 8

## Sustainable Waste Management



# 'WASTE TO WEALTH' PROGRAM



Tabung Haji – 1,786kg



KKM – 1,789kg



AKPK – 915kg

# Action 9

## Sustainable Water and Wastewater Management



# RAINWATER HARVESTING SYSTEM





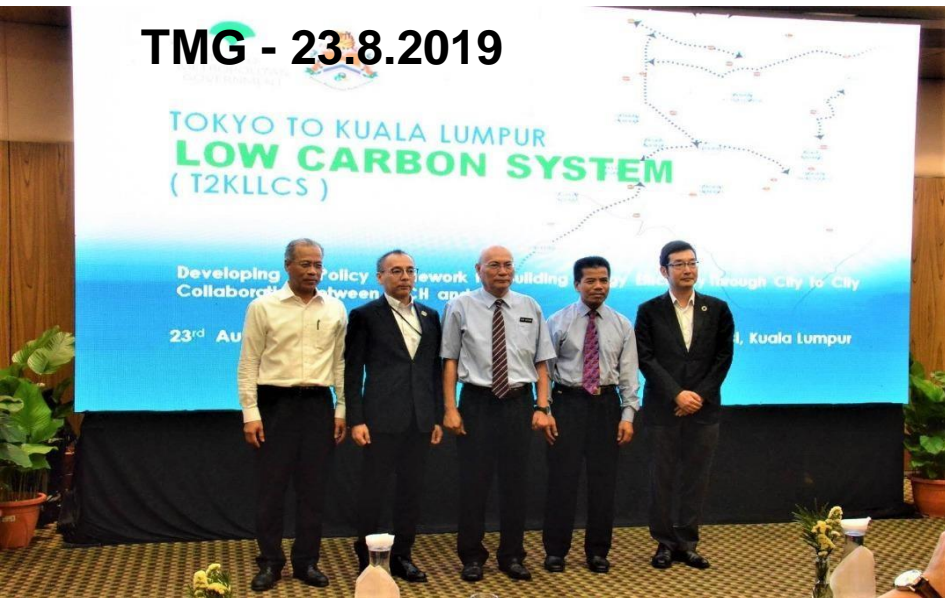
# Action 10 Green Urban Governance

The image shows the Dewan Bandaraya Kuala Lumpur (DBKL) building, a prominent landmark in Kuala Lumpur, Malaysia. The building is a multi-story structure with a distinctive tower section. The facade is light-colored, and the name "DEWAN BANDARAYA KUALA LUMPUR" is inscribed in English and Malay. The building is surrounded by lush greenery, including large trees and a well-maintained lawn. The sky is clear and blue, suggesting a bright day. The overall scene conveys a sense of a modern, green urban environment.

DEWAN BANDARAYA KUALA LUMPUR  
دهان بتر اي كوالا لومبور

# CREATING UNDERSTANDING

TMG - 23.8.2019



TNBX - 25.7.2019



# COOPERATION WITH COMMUNITIES AND NGOs NGO

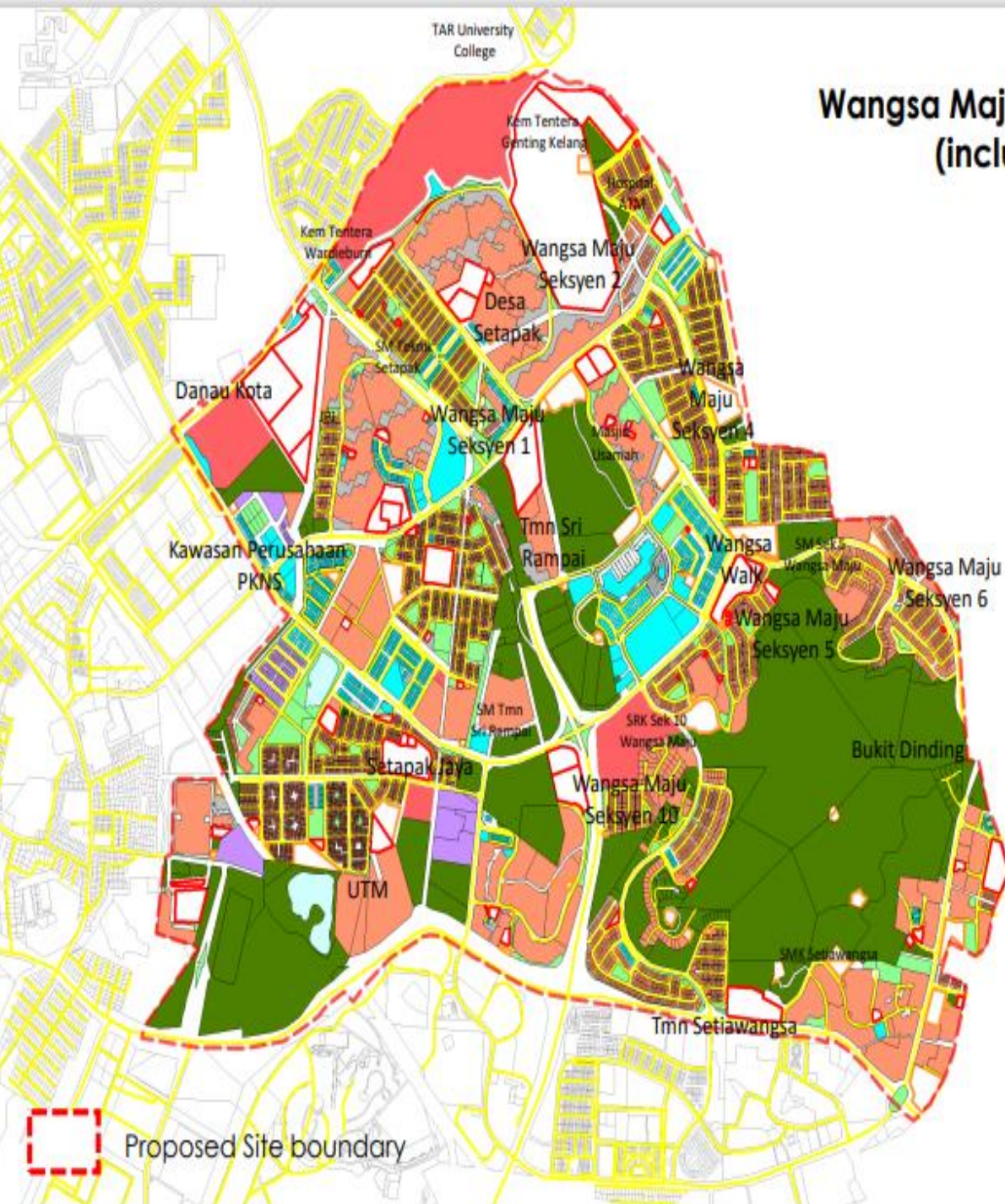


Program 'Sg bonus Fun Cycle' pada 5 Mei 2019



Program 'Bunus Fun Walk 4 River' pada 19 okt 2019

**WANGSAMAJU CARBON NEUTRAL  
GROWTH CENTRE**



# Wangsa Maju Carbon Neutral Growth Centre (including Taman Sri Rampai)

2649.2 acres

Transforming  
dormitory **sub-urban**  
**centre** into **thriving,**  
**prosperous and**  
**liveable** carbon  
neutral growth  
centre

 Proposed Site boundary

# Aim

## Wangsa Maju Carbon Neutral Growth Centre

**Transforming** Wangsa Maju Growth Centre to become a **zero carbon precinct** as a **pioneer showcase** towards achieving **Carbon Neutral Kuala Lumpur by 2050** through a systemic interrelated measures for a **progressive transformation** towards **low-energy, low-carbon** and ultimately carbon neutral city



# Goal and Objectives

## Wangsa Maju Carbon Neutral Growth Centre

### Goal

Kuala Lumpur towards becoming a **climate neutral city** by 2050 with Wangsa Maju Growth Centre as the **strategic pioneering case** through systematic and interrelated measures for a **progressive transformation** towards climate neutral urban precinct.

### Objective 1:

To set out **carbon neutral modelling** for Wangsa Maju Carbon Neutral Growth Centre

### Objective 2:

To identify suitable **development concepts and projects** for Wangsa Maju Carbon Neutral Growth Centre that will serve as a **reference for upscaling** best practices to other five strategic zones



# GREEN NETWORK

## GREEN NETWORK

LOW CARBON GROWTH CENTRE

Sungai Bonus, Wangsa Maju

Titiwangsa Lake Park

Kampung Bharu

Saloma Link

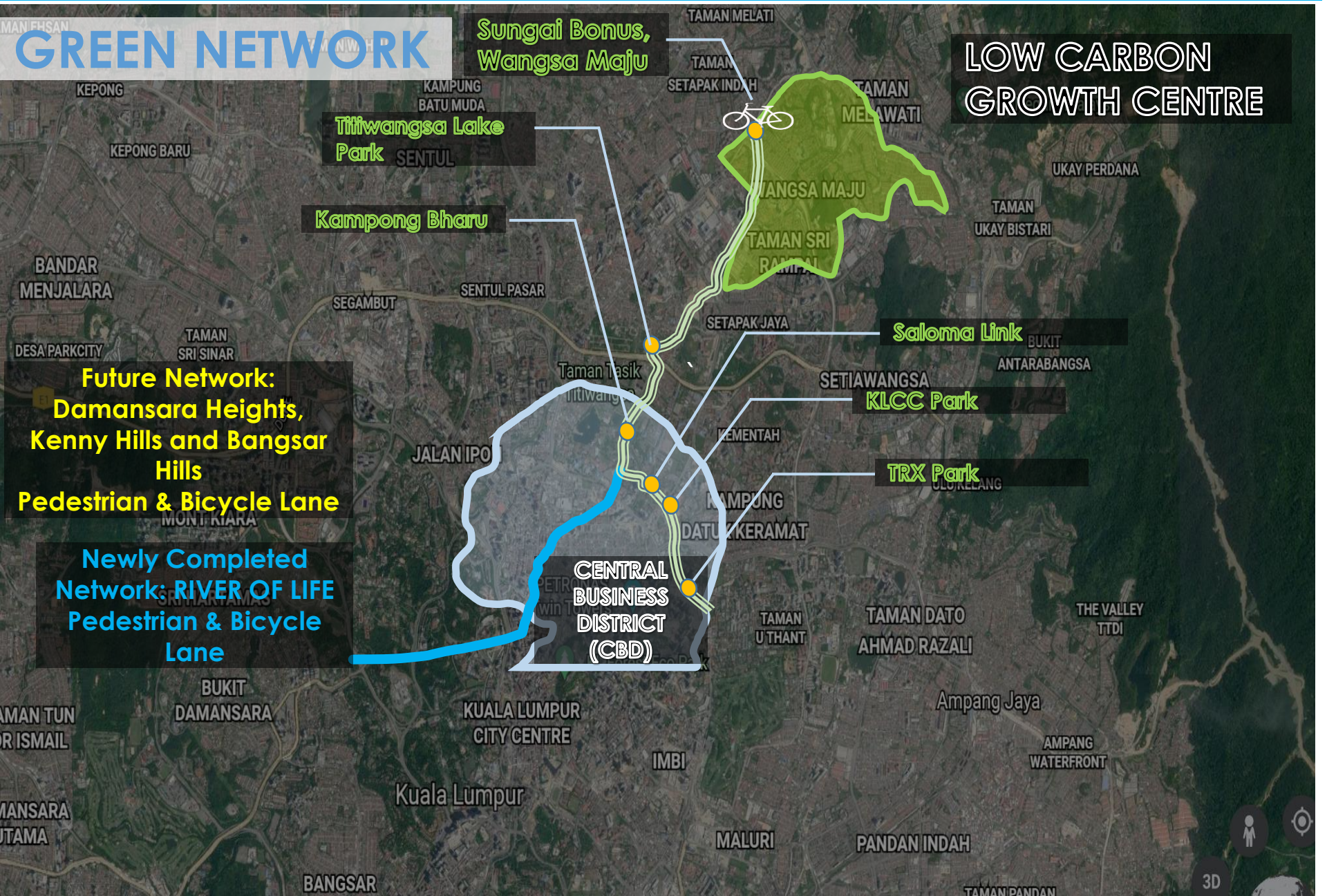
KLCC Park

TRX Park

CENTRAL BUSINESS DISTRICT (CBD)

Future Network:  
Damansara Heights,  
Kenny Hills and Bangsar Hills  
Pedestrian & Bicycle Lane

Newly Completed  
Network: RIVER OF LIFE  
Pedestrian & Bicycle Lane





# WANGSAMAJU CARBON NEUTRAL GROWTH CENTRE



Floating Solar PV on lakes



EV Buses near LRT stations



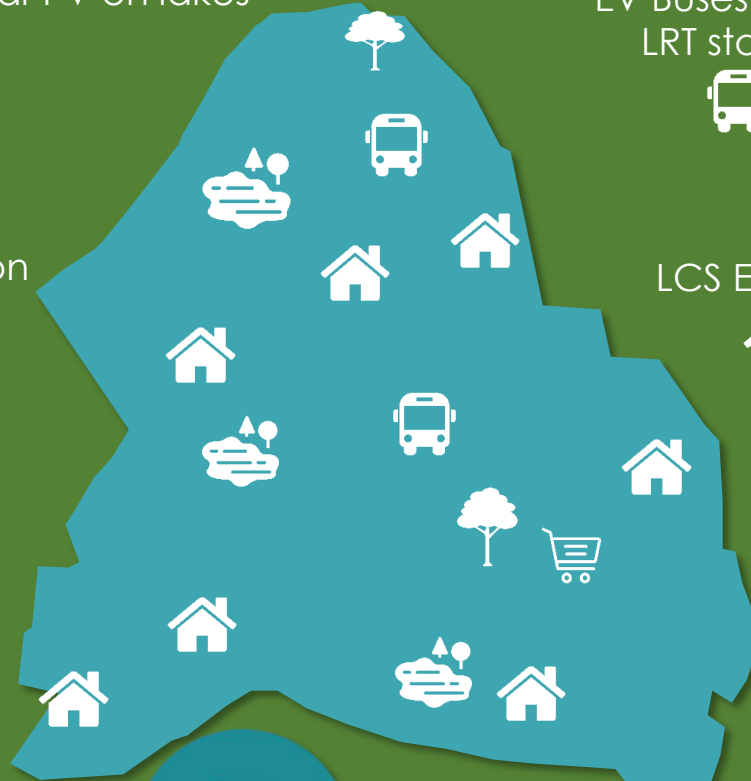
Solar PV Installation on house/malls rooftop



LCS Education



Green Spaces



Anaerobic Digester and Pyrolysis Plant



Walkable and cyclable Neighbourhood



# PROPOSED INITIATIVES - ENERGY

## 1. Rooftop PV installation



## 2. Floating Solar PV



Sri Rampai Lake



Kolam Setapak Jaya

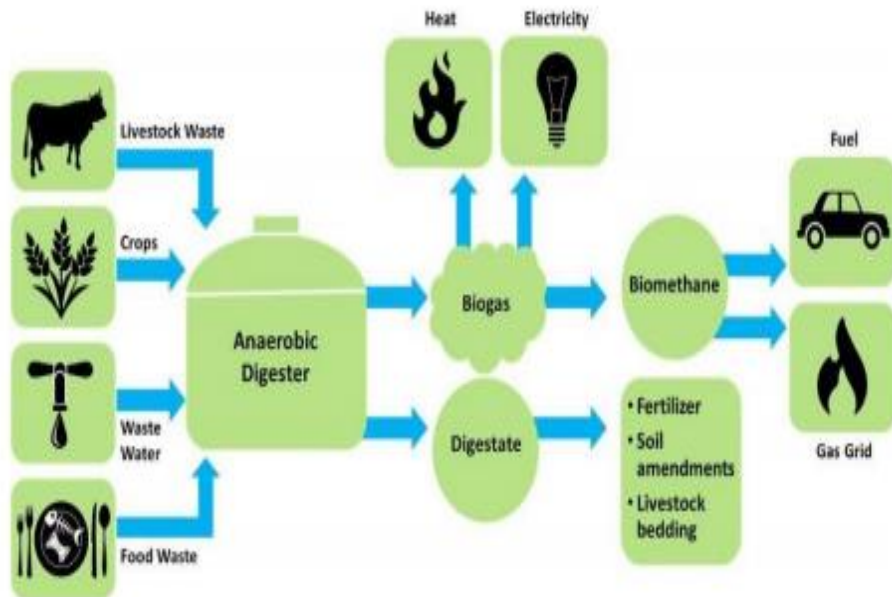
## 3. District Energy System



# PROPOSED INITIATIVES - WASTE



## 2. Anaerobic Digester Plant



## 4. Waste Recycling Centre



# PROPOSED INITIATIVES – TRANSPORTATION & MOBILITY

## 1. Network for pedestrian and cycling



Source: KLCH, 2021

## 2. Public Transportation Improvements



Shuttle bus service



Electric bus charging station

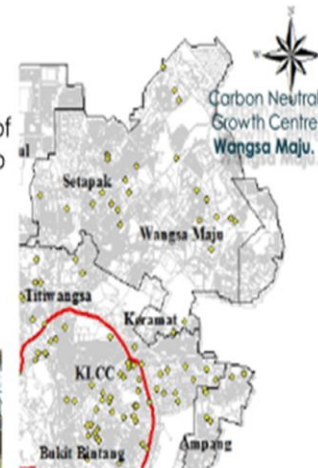
## ELECTRICAL VEHICLE and CARBON NEUTRAL GROWTH CENTRE



DBKL to allocate reduced Budget of RM2.653b for 2021, says mayor



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KLCH is creating a Carbon Neutral Growth Centre in Wangsa Maju

# PROPOSED INITIATIVES - COMMUNITY

## 1. Establish Community Farming with Residence Association



Open spaces at Flat Wangsa Maju  
Seksyen 4



Open spaces at Flat Wangsa Maju  
Seksyen 2

## 4. Implement 1 Community 1 Recycling Program



Community hall Section 10  
Wangsa Maju



Community hall Section 4  
Wangsa Maju

## 2. Introduce Community Energy Saving program



Flat Wangsa Maju Seksyen 10



Flat Wangsa Maju Seksyen 2

## 5. Introduce Eco Life Challenge Program in School



SK Sek 4 Wangsa Maju



SK Sek 1 Wangsa Maju

## 3. Setting up Carbon Neutral Residents Association



Office Residence Association  
Section 1 Wangsa Maju



Office Residence Association  
Section 10 Wangsa Maju

## 6. Introduce Green School Award Program



SM Sek 5 Wangsa Maju



SM Tmn Sri Rampai

# PROPOSED INITIATIVES - GREENERY & CARBON OFFSET

## 1. Protect Existing Open Space and Forest



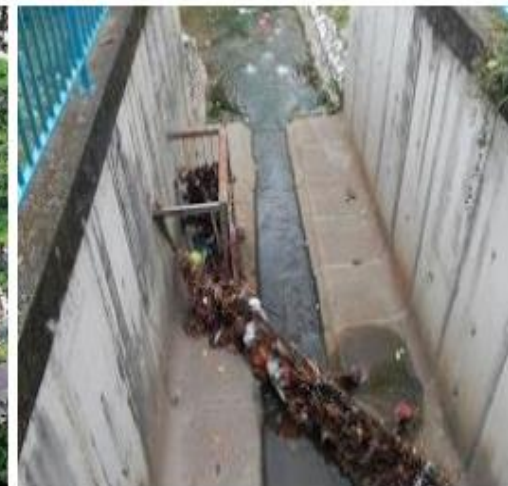
## 2. Introduce Vertical and Roof Gardening



## 3. Create Linear Urban Parks Along River and Waterway Reserves

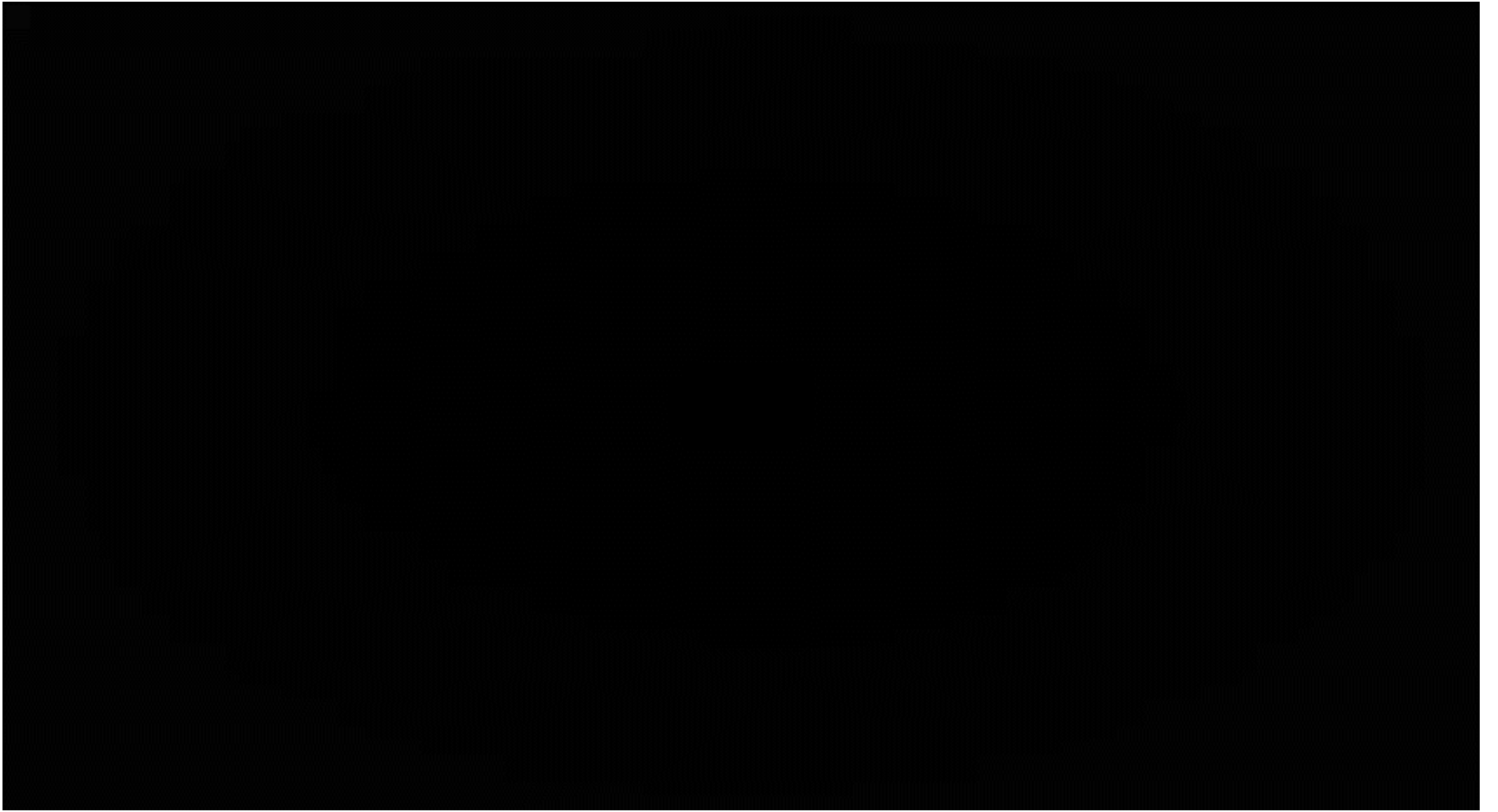


## 4. Organise "Clean Up A River" Program



# CONCLUSION

- ❑ As a conclusion, these initiatives need the commitment of everyone; that is the government, the private developers, NGO's, local communities as well private individuals. Together, we shoulder the shared responsibilities of implementing our respective programmes: with the sole purpose to reduce the carbon emissions in the City.
- ❑ To KLCH, it is a real big challenge; KLCH has to implement a comprehensive awareness and outreach programme for all stakeholders. Indeed, it should be treated as our way of life to reduce carbon emissions.
- ❑ Based on the projection (base year 2010), a reduction of more than 43% in carbon emissions will be achieved by 2020. We need to act now and act together because what we do today shapes the climate, ecological systems and habitats of tomorrow, as well as the options available to our future generations.





*Thank you for your attention!*

Thank You Terima Kasih 谢谢 धन्यवाद ありがとう