NATIONAL AGENDA

SMART SUSTAINABLE CITIES IN MALAYSIA

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MALAYSIA

Hosted by:

THE 2ND ASEAN-JAPAN SMART CITIES NETWORK
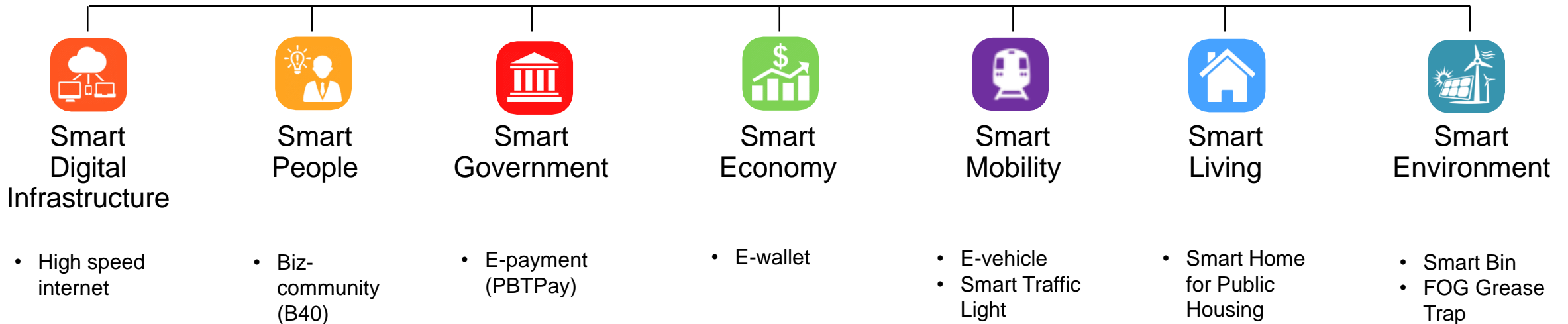
HIGH LEVEL MEETING

KPKT

Definition and Components

Smart City Definition

"Using ICT, technological advances and innovation to address urban issues including to improve quality of life, promote economic growth, develop sustainable and safe environment and encourage efficient urban management practices"

Smart City Components

Smart Digital Infrastructure	Smart People	Smart Government	Smart Economy	Smart Mobility	Smart Living	Smart Environment
• High speed internet	• Biz-community (B40)	• E-payment (PBTPay)	• E-wallet	• E-vehicle • Smart Traffic Light	• Smart Home for Public Housing	• Smart Bin • FOG Grease Trap

MALAYSIA SMART CITY FRAMEWORK 2019 - 2025

Phases of Implementation

1

Foundation

2019-2020

2

Development

2020-2022

3

Advance

2023-2025

Awareness & Engagement

- awareness programme;
- engagements and group discussion; and
- setting up the institutional framework.

Implementation

- capacity building;
- identify source of funding and strategic collaboration;
- project implementation; and policy review

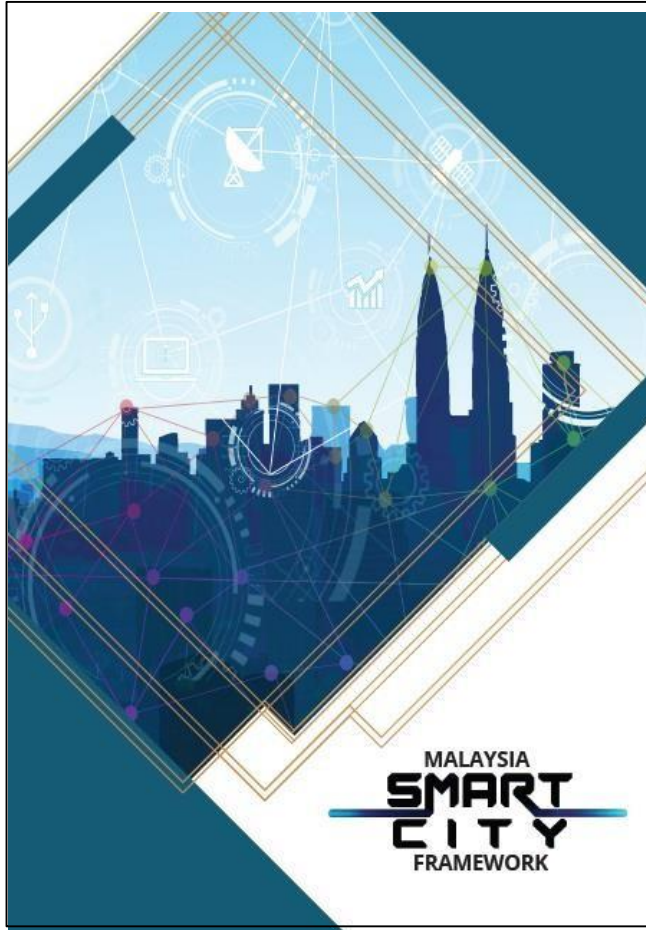## Monitoring & Evaluation

- project monitoring & evaluation; and
- accreditation of Smart City

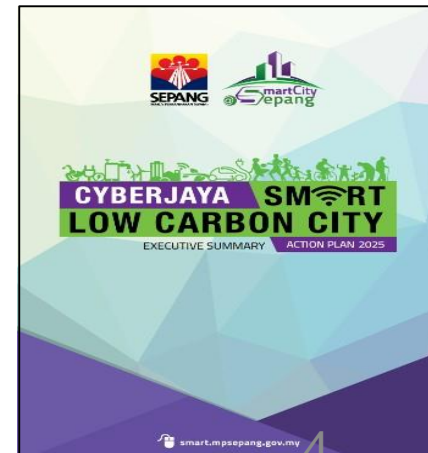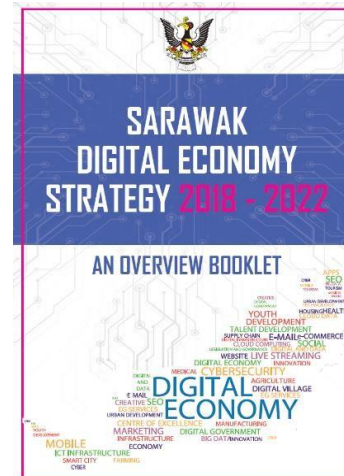# SMART CITIES POLICY & STRATEGIC DOCUMENT IN MALAYSIA

NATIONAL LEVEL

MALAYSIA **SMART CITY** FRAMEWORK

The Malaysian Smart City Framework will serve as <u>guidance for cities, states and local authorities</u> embarking on the smart city agenda

STATE LEVEL

SMART SELANGOR

SARAWAK DIGITAL ECONOMY STRATEGY 2018 - 2022

AN OVERVIEW BOOKLET

PENANG 2030

CITY LEVEL

Resilient Melaka

SMART CITY ISKANDAR MALAYSIA

PUTRAJAYA SMART CITY Blueprint

CYBERJAYA SMART LOW CARBON CITY
EXECUTIVE SUMMARY   ACTION PLAN 2025

4

Way Forward

5 — 2019
10 — 2020
20 — 2022
30 — 2024
35 — 2025

35 Smart Cities Federal Assisted in 2025

Source: World Urbanization Prospects 2018 (UN)

MALAYSIA
SMART CITY

A FEW EXAMPLES OF ONGOING SMART CITY PROJECT IN MALAYSIA

Kuching, Sarawak

Integrated Smart Traffic Light System

➤ Upgrading the existing traffic lights which includes installation of traffic sensors, network connectivity and data integration with internal and external sources to reduce traffic in the city

Integrated Flood Management & Response System

➤ A comprehensive and real-time flood-related database through upgrading critical rainfall/water level stations to telemetry-enabled stations for more accurate flood modelling and prediction, to prevent and mitigate floods

Putrajaya

Integrated Environmental Monitoring System

- Weather monitoring (temperature, rainfall, wind speed and humidity)
- Air quality monitoring
- Supervisory control and data acquisition (SCADA) for pollution prevention control
- Putrajaya lake and wetland management operational system (PLWMOS) – lake water quality, flora and fauna

Partnering for smart city initiatives

Governance Arrangement

Institutional framework at the national level to streamline the Smart City implementation by various stakeholders in Malaysia

Local Partners

Business matching between Local Government and local industry players with sustainable solution and business model

International Partners

Sharing of technical expertise, technology and best practices to expedite smart city development

Korporat@PLANMalaysia

Korporat@PLANMalaysia

IoT solutions

Areas of Cooperation

Potential projects

- ❖ Sustainable business model
- ❖ Innovative financial model to implement
- ❖ Improve, expand and upgrade:
  - ✓ Smart Home for Public Housing
  - ✓ Smart Bin (Waste management)
  - ✓ Smart Water Management (Water resources and distribution management)
  - ✓ Smart Traffic Light
  - ✓ Electric Vehicles

Supports required

- ❖ Technical advisory services and analytics
- ❖ Enhance Data Centre capabilities
- ❖ Funding by private investors
- ❖ Experts in project consultation and implementation

THANK YOU