

GOVERNMENT OF MALAYSIA



Optimizing technology towards economic growth & environmental sustainability

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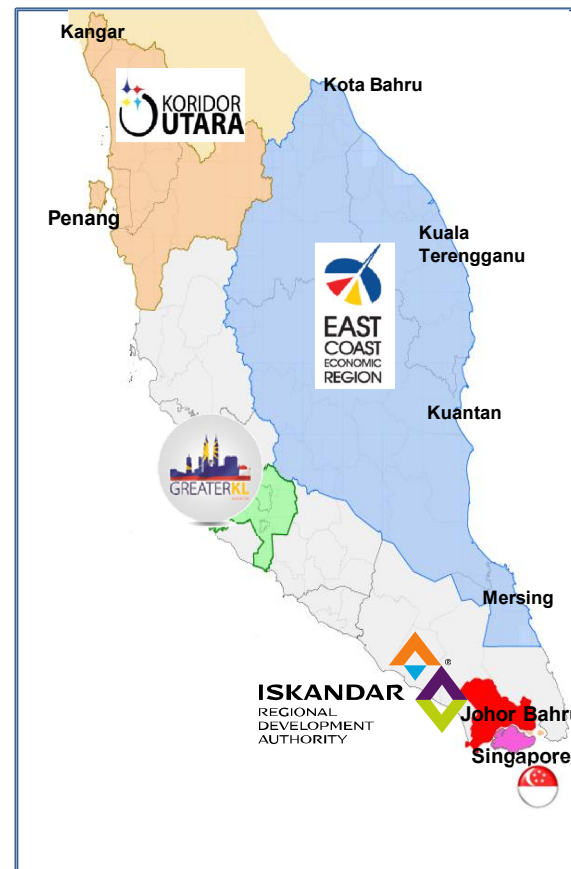
Iskandar Malaysia Location



Global and Regional Context



- Established in **2006**.
- An economic development corridor in the **Southern Johor, Malaysia**.
- Encompasses an area of **2,217 sqkm**, which is **3 times bigger** than Singapore.



Iskandar Malaysia covers **FIVE** local planning authorities.





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Focus Strategic Action To Drive Cities And Region



Comprehensive Development Plan (CDPii : 2014 - 2025)

The CDP formulates the overall development framework, vision and key directions in order to strengthen the physical, economic and social development of IM.

5 Big Move



Circle of Sustainability



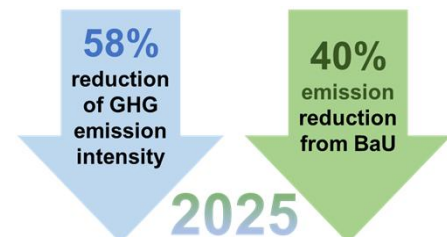


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Low Carbon Society for Iskandar Malaysia



Low Carbon Society Action Plans



● Step 01: Base year inventory

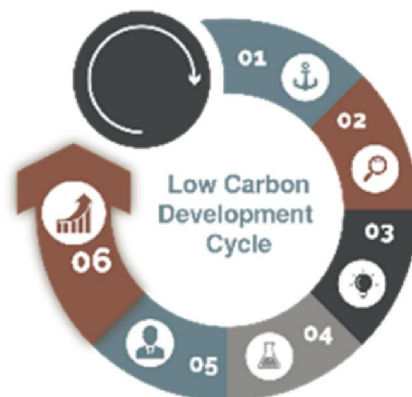
● Step 02: Future scenario analysis

● Step 03: Target setting

● Step 04: Action plan

● Step 05: Implementation

● Step 06: Tracking performance



1.2% GHG intensity reduction in 2017 vs 2016

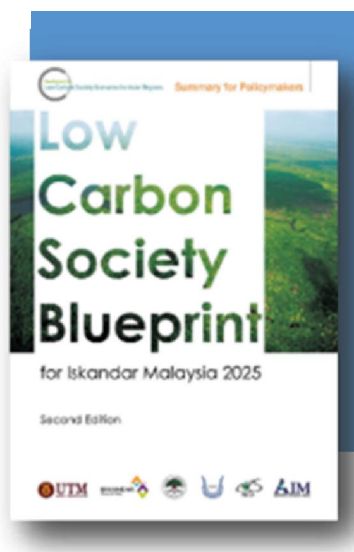
13.0% GHG intensity reduction in 2017 vs 2010 (base year)

Science

Policy

Action

Technology





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IMSC cover 6 dimension and 4 enabler eco-system

Focusing on Technology and Innovation

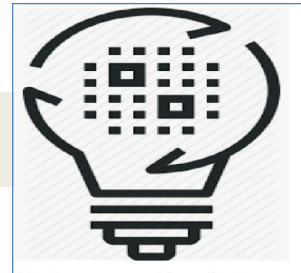


Iskandar Malaysia Smart City Dimension



Enabler and Eco System

- Infrastructure and Data



- IMUO and Data Analytics from Connected Devices



- Government Action for Public Services Improvement



- Private driven smart solution to enhance quality of life





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IM 5 Smart Cities Action Plan



1 municipality = 1 project

1



Smart Traffic Light Mgmt

Submitted budget request under RMK12 via KPKT for MBJB & MBIP. Involves total 8 junctions.

2



Framework for integration of PBT inter-department

Pilot at MBIP



MBJB

Smart Parking Management



Tender process

OUTCOME Ease traffic congestion – ease car park finding



MBIP

Smart City Management



1st phase

OUTCOME Transparent - Sharing info with public via One Map MBIP



MPPG

Energy Saving



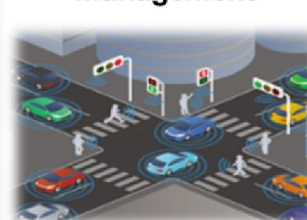
Completed Energy Audit
Cost saving by tackling inefficient energy source

OUTCOME



MPKu

Smart Traffic Management



10 junctions with Smart Traffic Light

OUTCOME ✓ Fuel Saving
✓ CO2 Reduction



MDP

Capacity Enhancement



Capacity by solution provider

OUTCOME New skills



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Case Study 1: Smart Governance Interventions



Installation Of 10 Smart Traffic Lights Along Jln Skudai Under MPKU

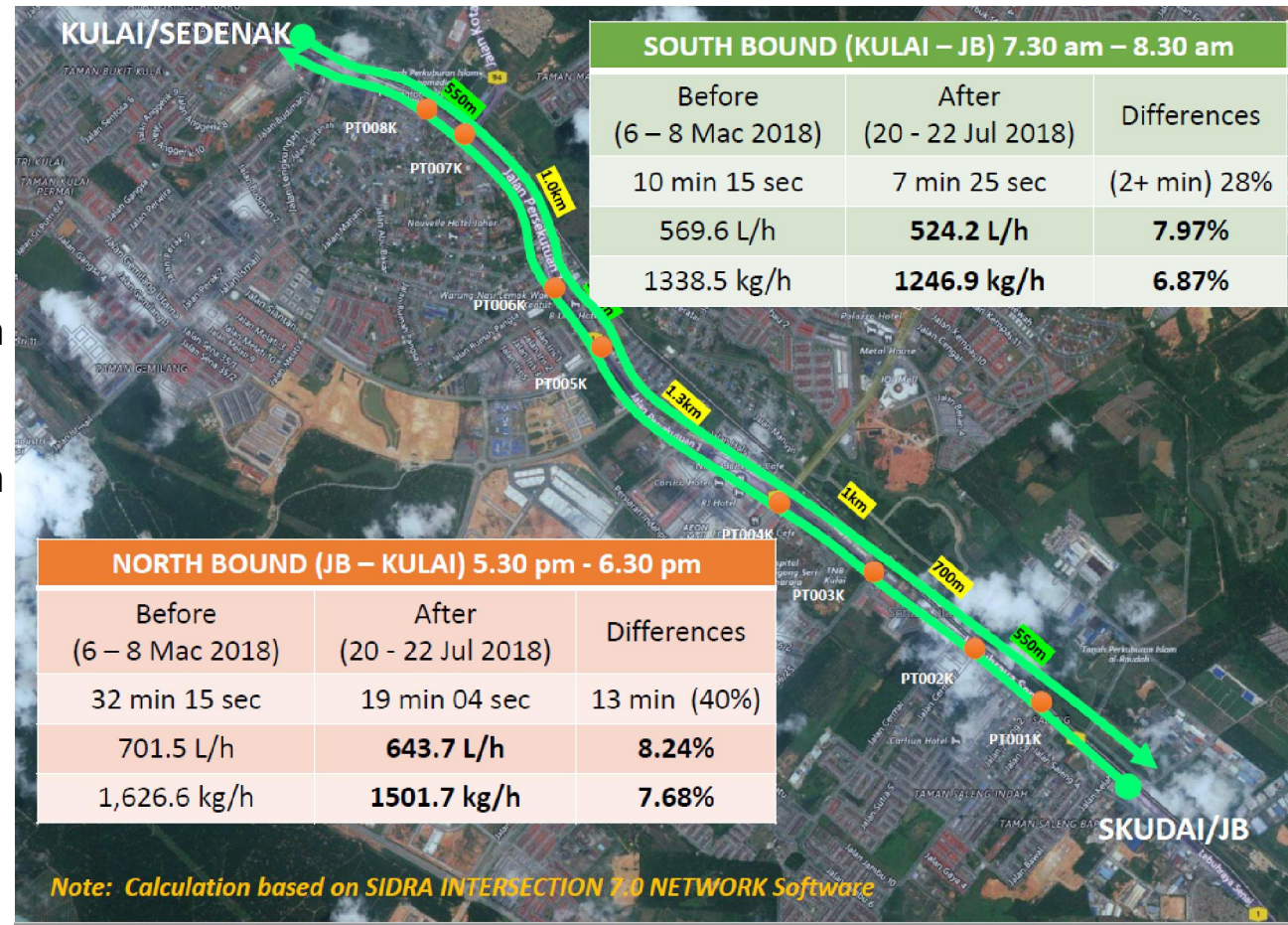


Fuel savings:

- 45.4 L/hr along the 5.65 km route for south bound direction
- 57.8 L/hr along the 5.65 km route for north bound direction
(RM127.16@RON95)

Carbon Emission Reduction:

- 91.6 kg/hr reduction of CO₂ for south bound direction
- 124.9 kg/hr reduction of CO₂ for bound direction



Source: Majlis Perbandaran Kulai

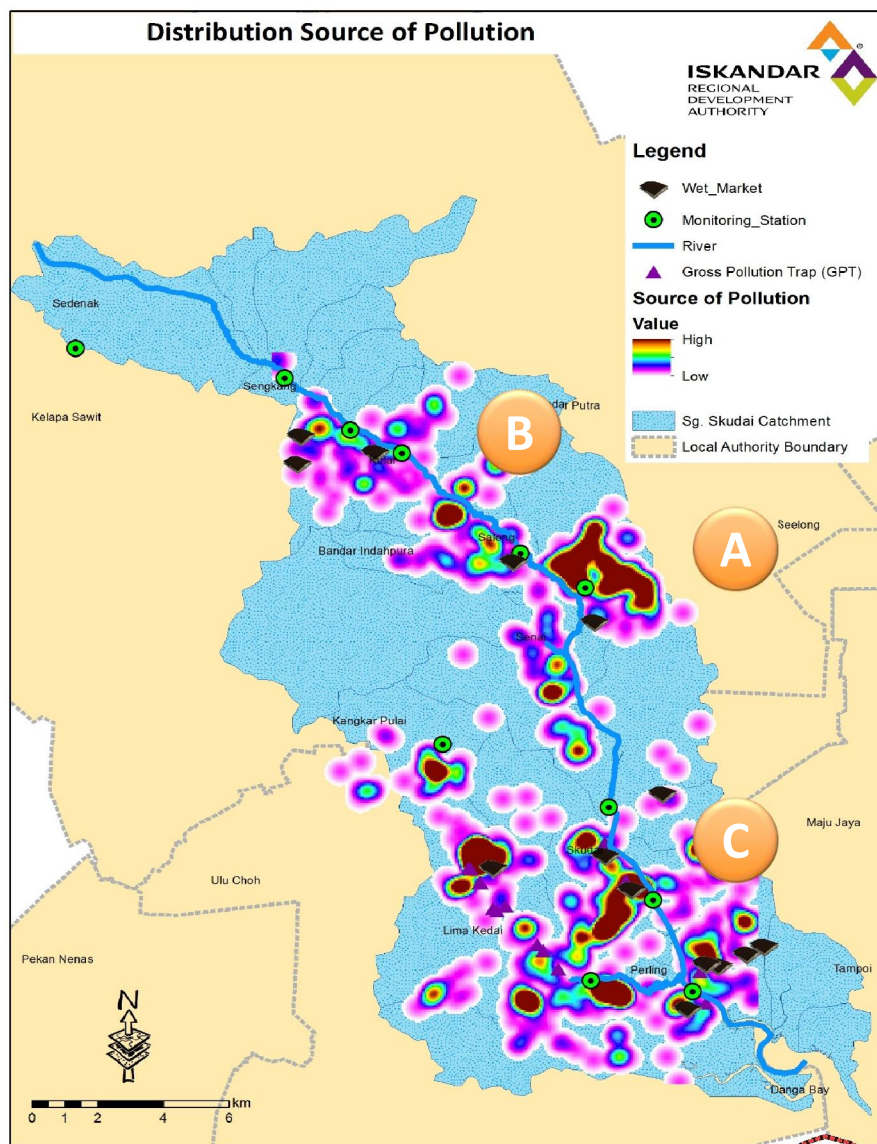


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Case Study 2: Sungai Skudai River Monitoring



Coordinated Enforcement



Analysis:

1. Deterioration of water quality coincide with low rain season
2. Based on 6 months data analysis, two points have been consistently displayed worsening conditions / discharges

Possible Cause:

1. The two points – after correlating with land use data and licensing data from local authorities are:
 - a. Point A is a light industrial area. It's possible these type of industries here are not well regulated
 - b. Point B is a commercial area near a major hypermarket, licensing have indicated at least 4 car wash operators here
 - c. Village – possible un maintain septic tank

Proposed Action:

1. Focus Enforcement at root cause areas
2. New policy for hot spot areas
3. Improve maintenance to identified areas

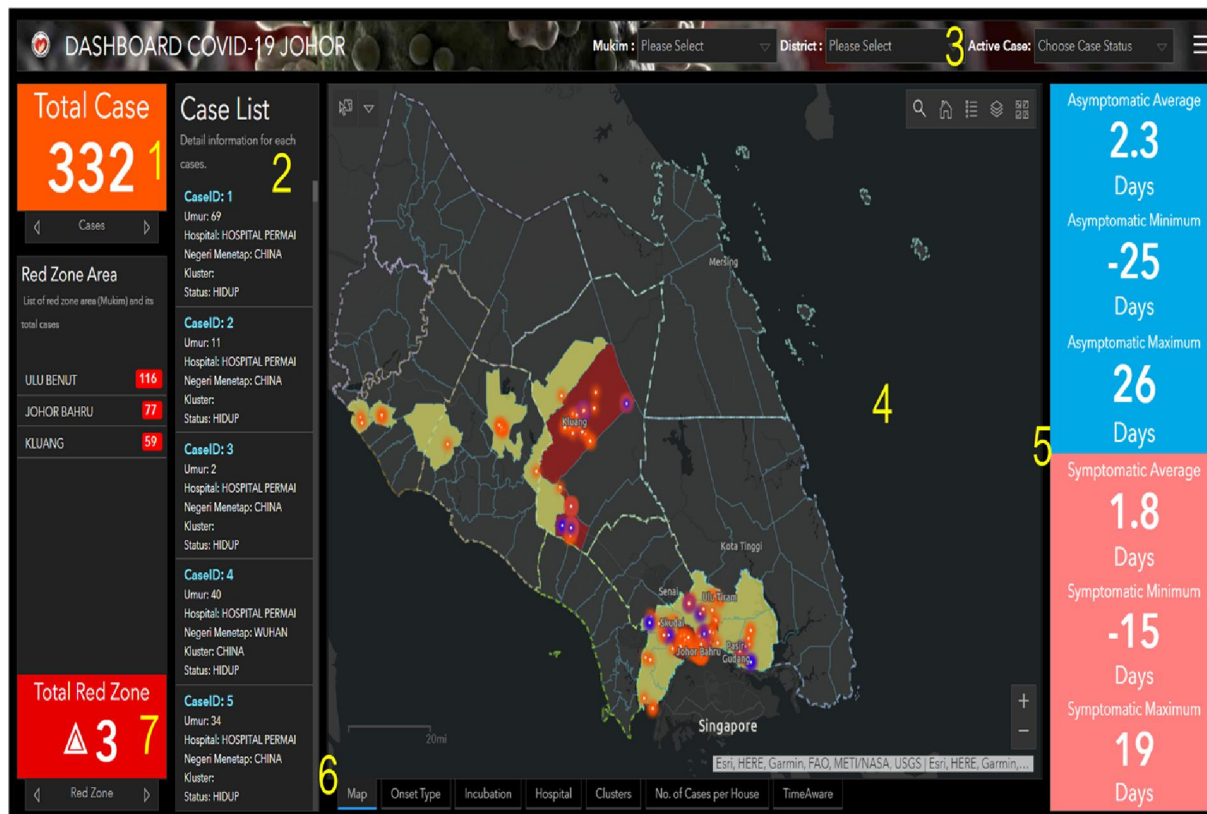


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Case Study 3: Data platform to manage COVID 19



IM-UOCC Dashboard

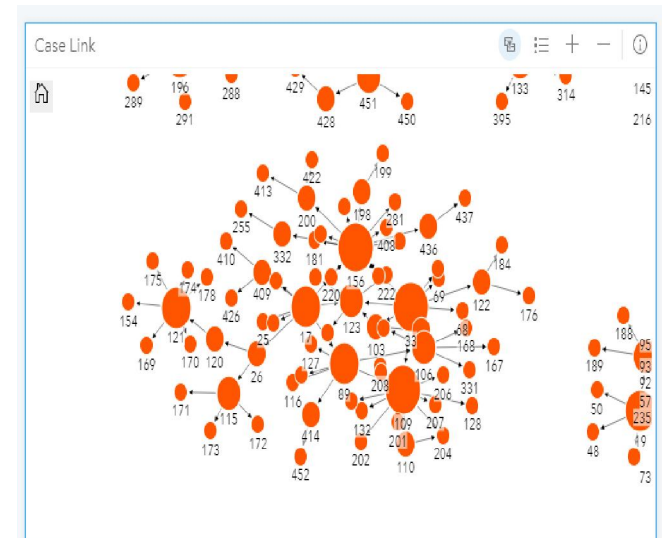


1. Cases in Johor
2. Case ID List
3. Filter (Mukim, District, Active Case)
4. Map of Johor & Locations of COVID-19 Cases
5. Asymptomatic VS Symptomatic Cases (Average, Minimum, Maximum)
6. Tab to change details on Map (Map, Onset

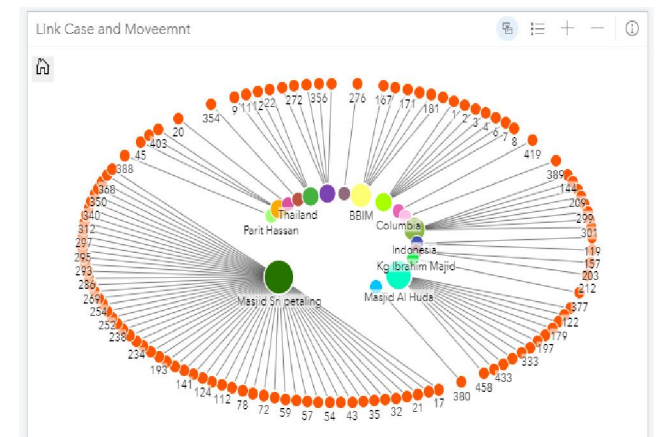
Type, Incubation, Clusters, No of Cases Per Home, Timeline)

7. Green, Yellow, Orange, Red Zone Overview

* Map can be zoomed in/out. Selection of Mukim/Daerah/Case Status Filter will update the data. Blue points on map shows >1 case/house



Understanding Linkage between cases and Movement of Clusters





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Iskandar Malaysia Urban Observatory



Transparent information and data



Regional
Data Analytics
Platform

IMUO: A Central Data Center to collate, update, analyze, manage and disseminate data and information for Iskandar Malaysia

Related programs



◀ **Local and Urban Governance Diagnostic tool - SDG**



Improved decision making



Improving the government's goal outcomes – Transportation, Welfare, Crime etc



Identify and reduce inefficiencies



Increase ROI & reduce costs

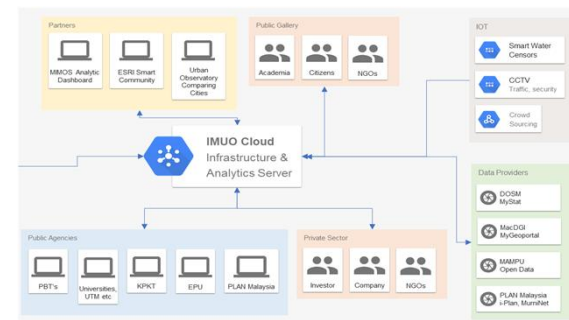


Enhance transparency and service to the citizens – Better communicate the government's intentions

System Technology ▶
Deep Assessment and Proposal – USTD under ASEAN Smart City Network



◀ **Server, storage and software –**





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Challenges and Benefit for utilizing Smart City Component



Challenges



Infrastructure readiness

Data is scattered at various agencies

Uncoordinated joint collaboration and policies to resolve issues

Mind set change and Readiness of resources

... and the Benefits



STRATEGIC PLANNING

to provide further insight into the catchments for authorities to strategize



SYNERGIZE

to enhance inter-agencies the coordination

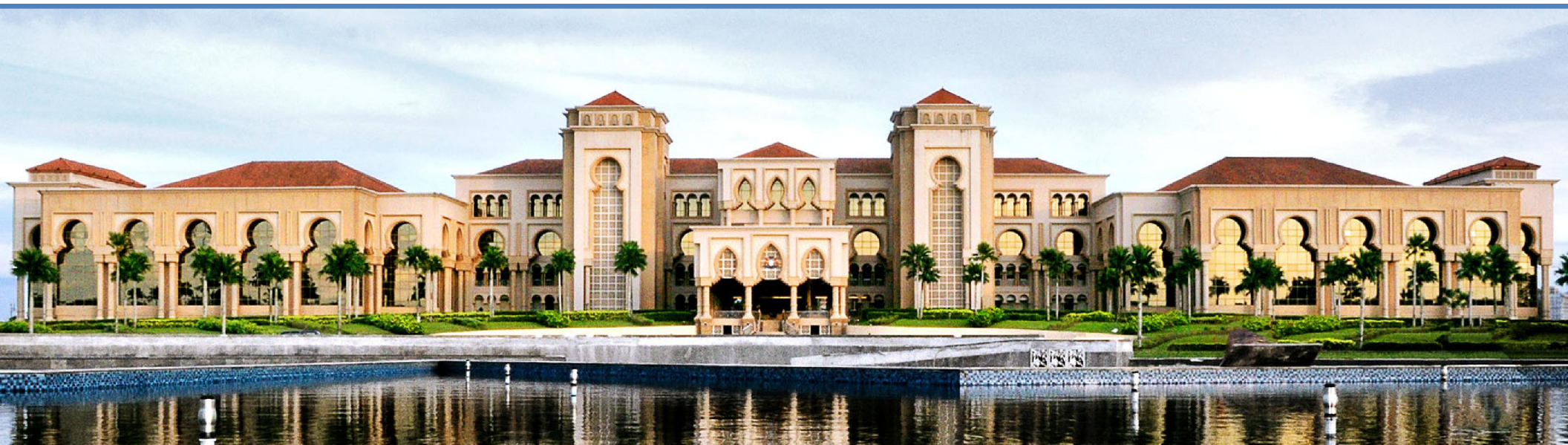


RESOURCES

to optimize valuable resources in enforcement



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THANK YOU



IskandarMalaysiaOfficial



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