

GOVERNMENT OF MALAYSIA

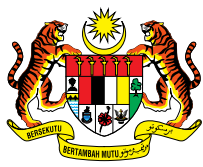


2nd ASEAN- Japan Smart Cities Network High Level Meeting



Iskandar Malaysia Smart City Updates

Presentation by
Maimunah Jaffar
Director Iskandar Regional Development Authority
Lead Technology & Innovation
Iskandar Malaysia



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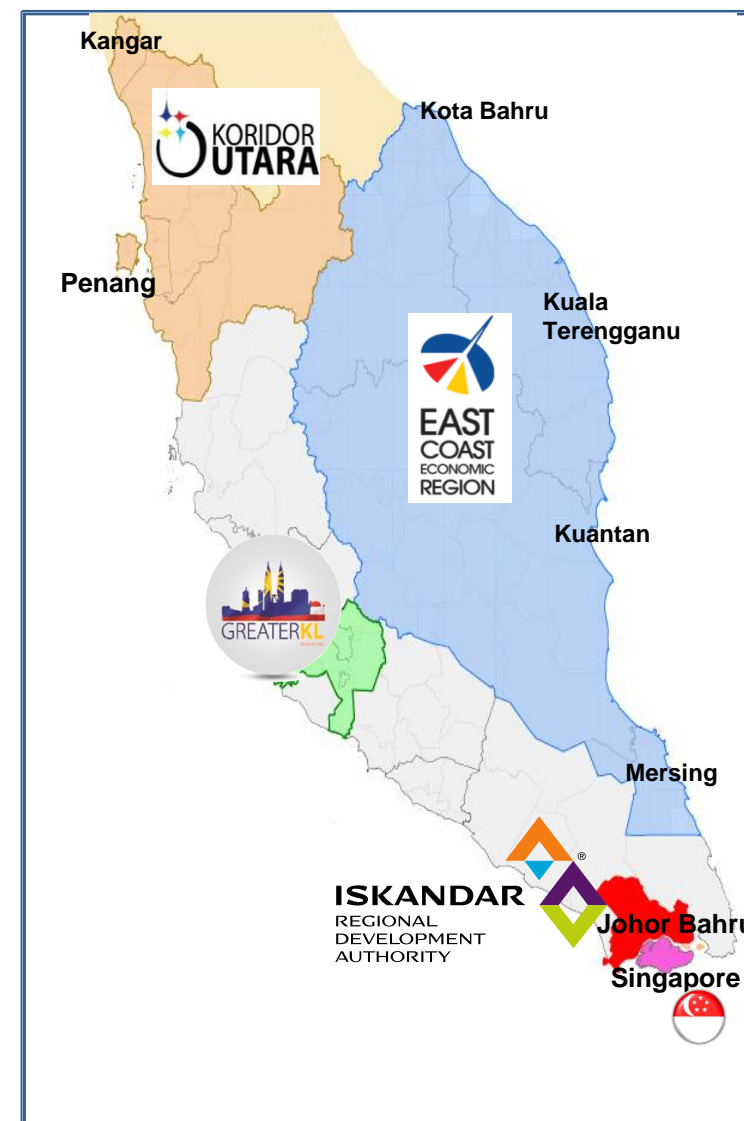
Iskandar Malaysia Location



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.



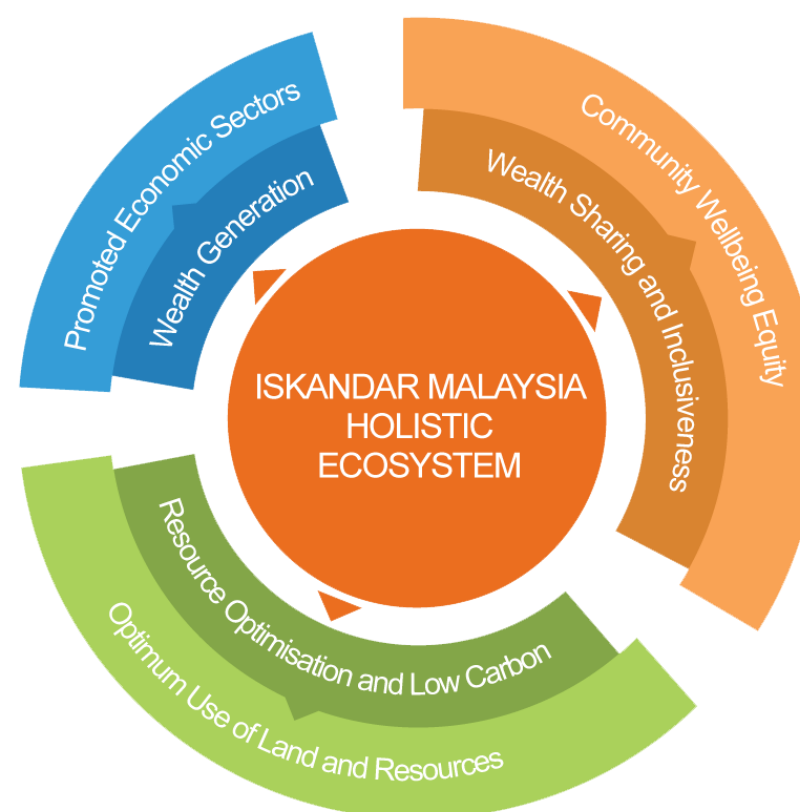
Comprehensive Development Plan (CDPii : 2014 - 2025)

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





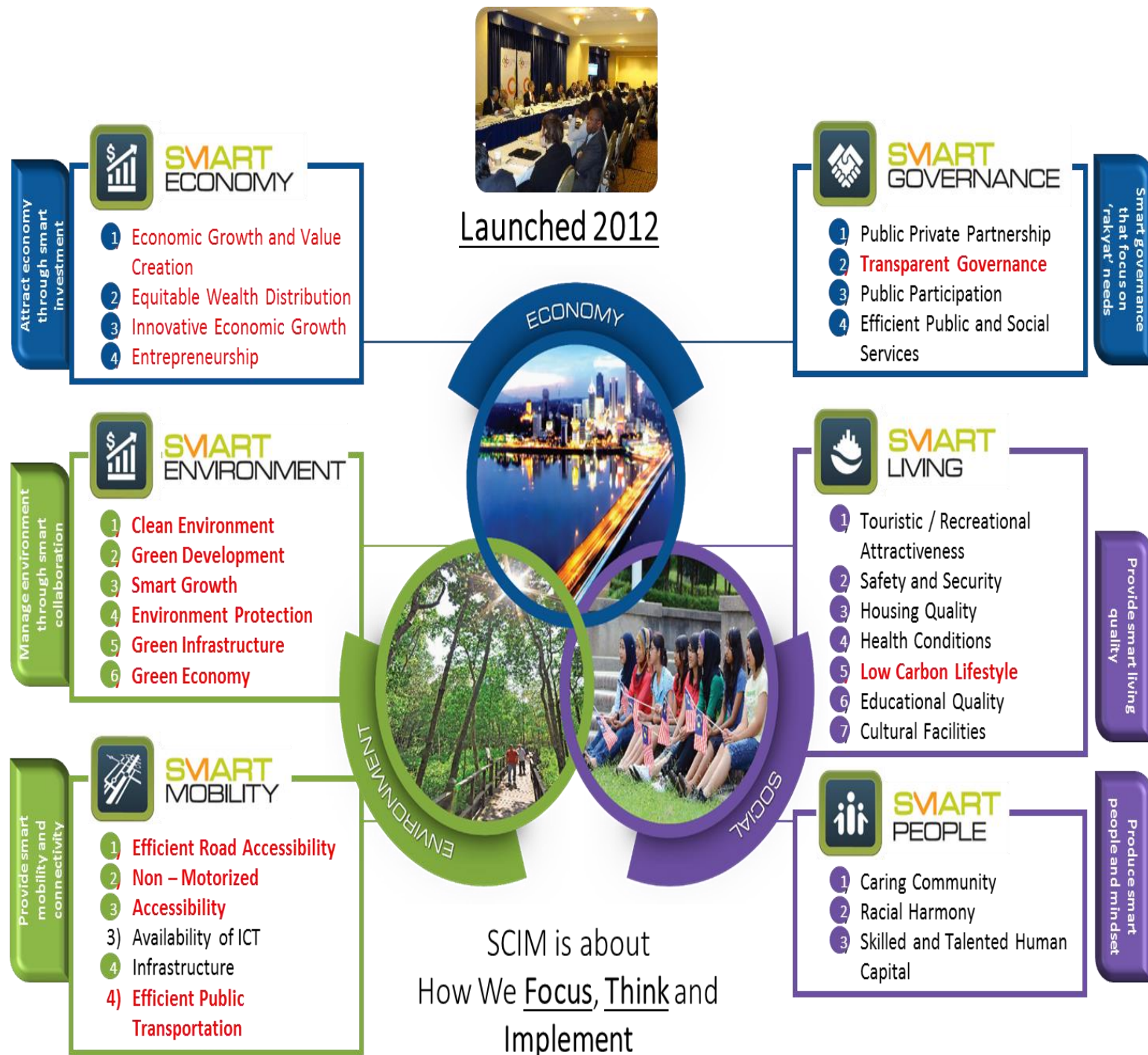
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IMSC cover 6 dimensions and 4 enabler eco-system

Focusing on Technology and Innovation

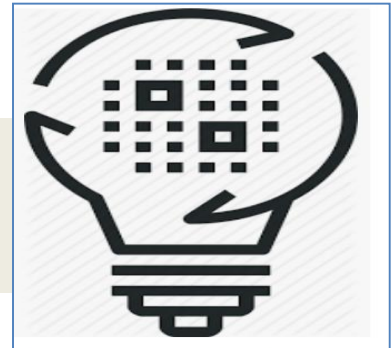


Iskandar Malaysia Smart City Dimension



Enabler and Eco System

- Infrastructure – hardware and software and Data



- IMUO and Data Analytics from Connected Devices



- Government Action for Public Services Improvement



- Private driven smart solution to enhance quality of life



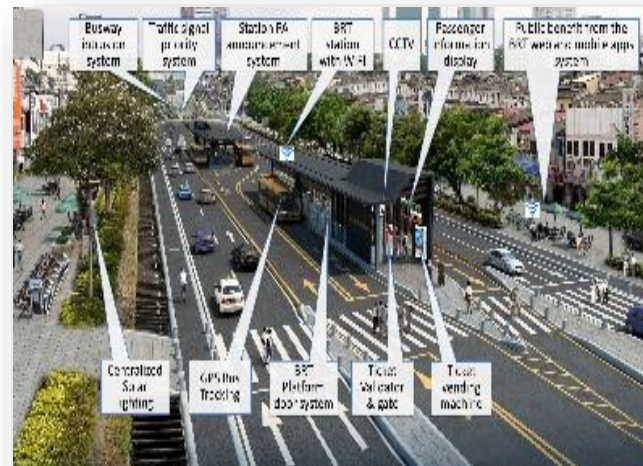


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Iskandar Malaysia Key on-going projects



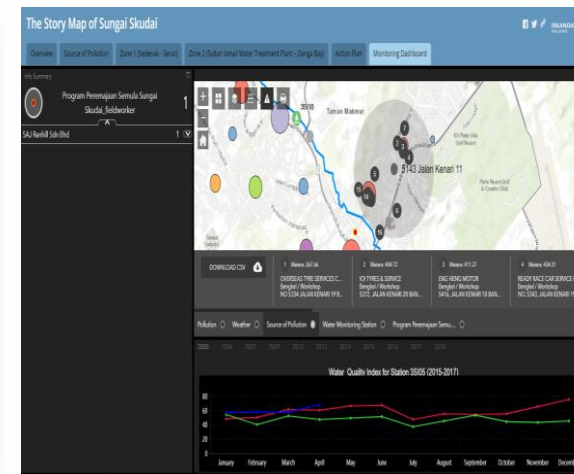
Smart City with Intelligent Transportation Component in Iskandar Malaysia BRT (IMBRT)



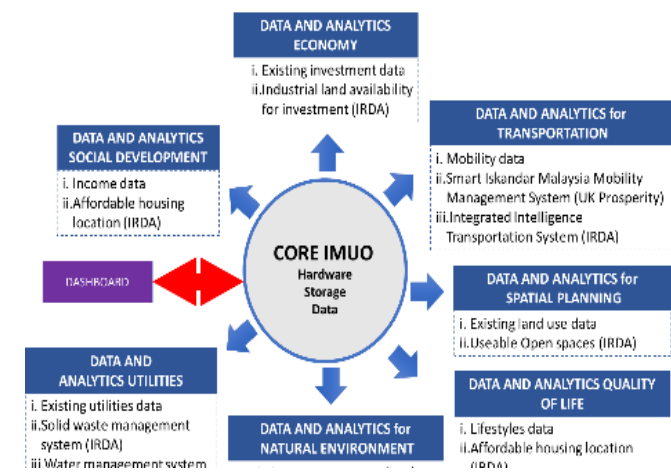
Sedenak Data and Digital Regional Hub



River monitoring for Sg Skudai



Iskandar Malaysia Urban Observatory (IMUO)



Smart Integrated Mobility Management System (SIMMS)

Smart Integrated Mobility Management System (SIMMS)

Developing the implementation strategy for Iskandar Malaysia's Smart Integrated Mobility Management System

Data Utilisation and Data Management for Evidence-Based Urban and Transport Planning

Introducing planning decision support to help utilize data from the integrated mobility system for better city planning outcomes

Smart City Action Plan with Local Authorities in Iskandar Malaysia



IM 5 Smart Cities Action Plan

1 municipality = 1 project

1



Smart Traffic Light Mgmt
Submitted budget request under RMK12 via KPKT for MBBJ & 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

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

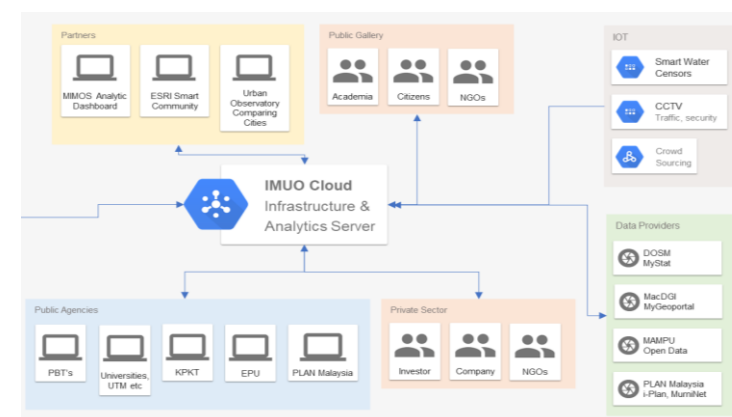


Enhance transparency and service to the citizens –
Better communicate the government's intentions

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

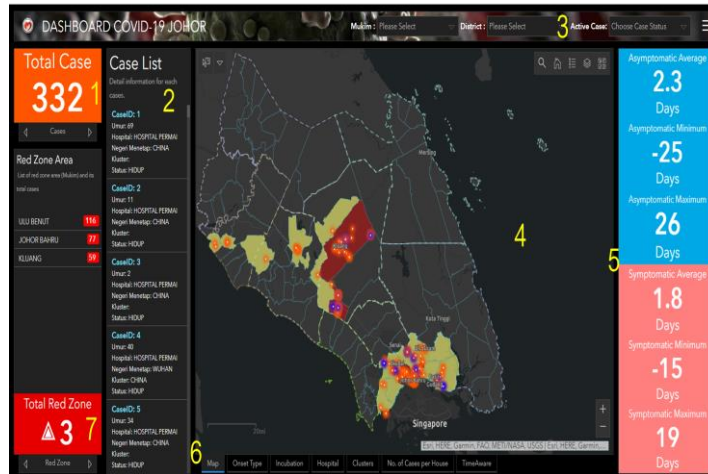


Server, storage
and software –



Focus projects: Community Preparedness for Industrial Area

Urban Challenges



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)
 7. Type, Incubation, Clusters, No of Cases Per Home, Timeline)
- * 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
- Inventory of poor people requires assistance

Status to Date

1 Community Preparedness

Community as the primary victims will be the most affected groups with less access to communication and information systems using digital tools.

2 Smart System

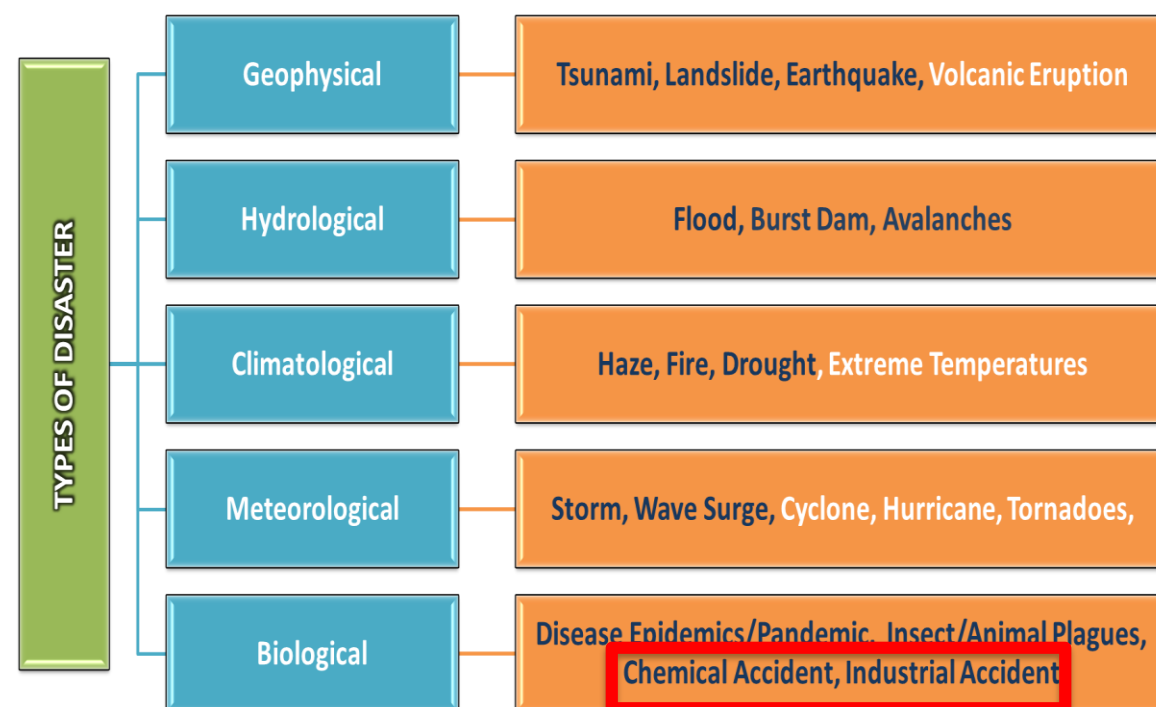
Smart Disaster Management System is a system that helps frame issues related to disaster preparedness as well as physical, economic, and environmental recovery, especially for the local community. It demonstrates the smart element utility and modern capabilities for accessing and integrating disaster information.

3 Integrated Information

Integrated information products delivered in a timely manner have the potential to serve the needs of local, state, and federal officials; the public and private sectors; volunteers; and citizens who are responsible for disaster management or who are subject to disasters.



Gap



Seeking Assistance



Spatial data and inventory to ease the process of managing communities during disaster/crisis and as a community preparedness

To develop a system by leveraging modern technologies & interfacing system for disaster/crisis management related to industry accident



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Focus projects: Connected River Monitoring System



Urban Challenges

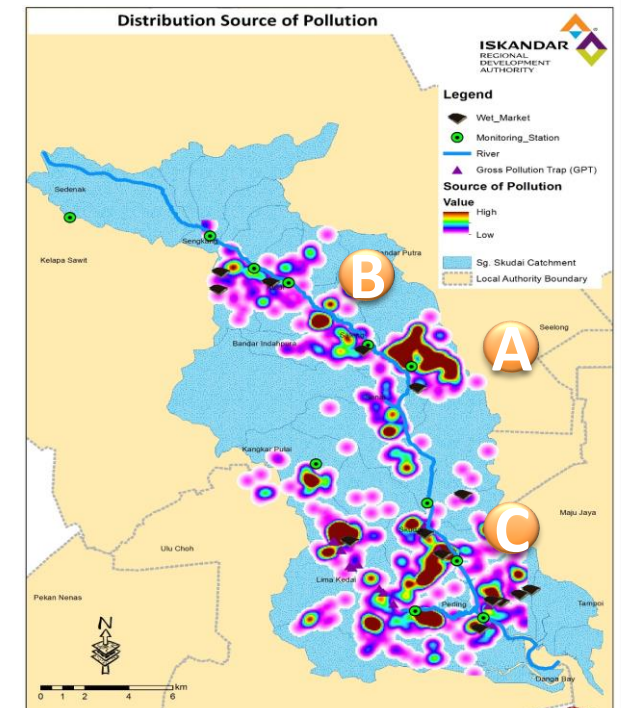
- Deterioration of water quality especially low rain season
- Floating solid waste
- Sedimentation
- Ammonia level high – unable to process water



Status to Date

Proposed Action:

1. Focus Enforcement at root cause areas
2. New policy for hot spot areas
3. Improve maintenance to identified areas
4. Develop a system to identify hot spot areas



Gap



- Manually inputting data
- Data not connected to any devices

Seeking Assistance



Focus projects: City Management

Urban Challenges

Infrastructure readiness

Data is scattered at various agencies

Uncoordinated data and policies to resolve issues

Mind set change and Readiness of resources

Status to Date



Gap

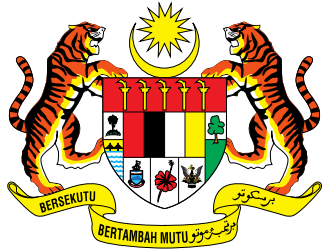
- Limited resources and connectedness among department
- Unconnected streets component to control devices
- Uncoordinated programs



Seeking Assistance

- Requires connected city masterplan





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THANK YOU



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