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Iskandar Malaysia Smart City Blueprint & Realization

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GEO Smart Asia 2016

17 - 19 October 2016

Iskandar Malaysia Smart City Blueprint & Realization

- **Comprehensive Development Plan ii**
- **Geo Spatial Initiatives**
- **Towards Becoming A Smart City**
- **Conclusion**

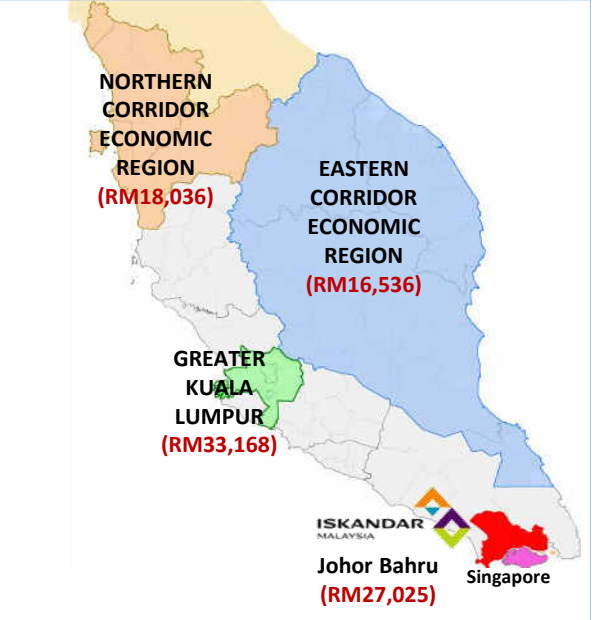
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Iskandar Malaysia is one of the top progressive economic region in the country

Iskandar Malaysia rose to be among the top progressive economic regions in the country, with relatively **high GDP per capita and committed investments.**

GDP Per Capita (at 2005 prices) by region,



Source: Department of Statistics, Malaysia, 2011
UPEN Johor 2010/2011

ISKANDAR MALAYSIA AT A GLANCE, 2012

Area	2,300 sq km (12% of Johor State)	Investment Achieved	RM106.3 billion
Population	1.74 million	Growth Rate	6.0% (2010-2012)
Ethnicity	Malay 48.2% Chinese 35.8% Indians 9.4% Others 6.6%	GDP 2012 (at a 2005 constant price)	RM47,010 million
Workforce 2010	0.75 million	GDP Per Capita (at 2005 prices)	RM27,025
Unemployment rate 2010	3%		
Total Employment 2010	0.73 million		

ISKANDAR MALAYSIA



Iskandar Malaysia is bestowed with strategic location and easy accessibility by land, air and sea.

International & Regional Linkages

- Iskandar Malaysia has the **advantages to develop international linkages due to proximity & traditionally strong economic linkages** with Singapore that help to boost international competitiveness and attaining international standing ecosystem.



Assets of Iskandar Malaysia

- Located along the busiest sea trade routes
- 2 world major port basins - Pearl River Delta & Straits of Malacca
- 6 to 8 hours air travelling time from Iskandar Malaysia to 3 world major economies – China, India & Japan
- Batam-Bintan-Karimun as Singapore’s extended economic zone



ASEAN Economic Corridor

- + AEC features a single market – **allows free movements of business persons, skilled labour, talents and free flow of capital** that will ensure ASEAN as a competitive region that embrace equitable development.



12 PRIORITY SECTORS FOR AEC REGIONAL INTEGRATION

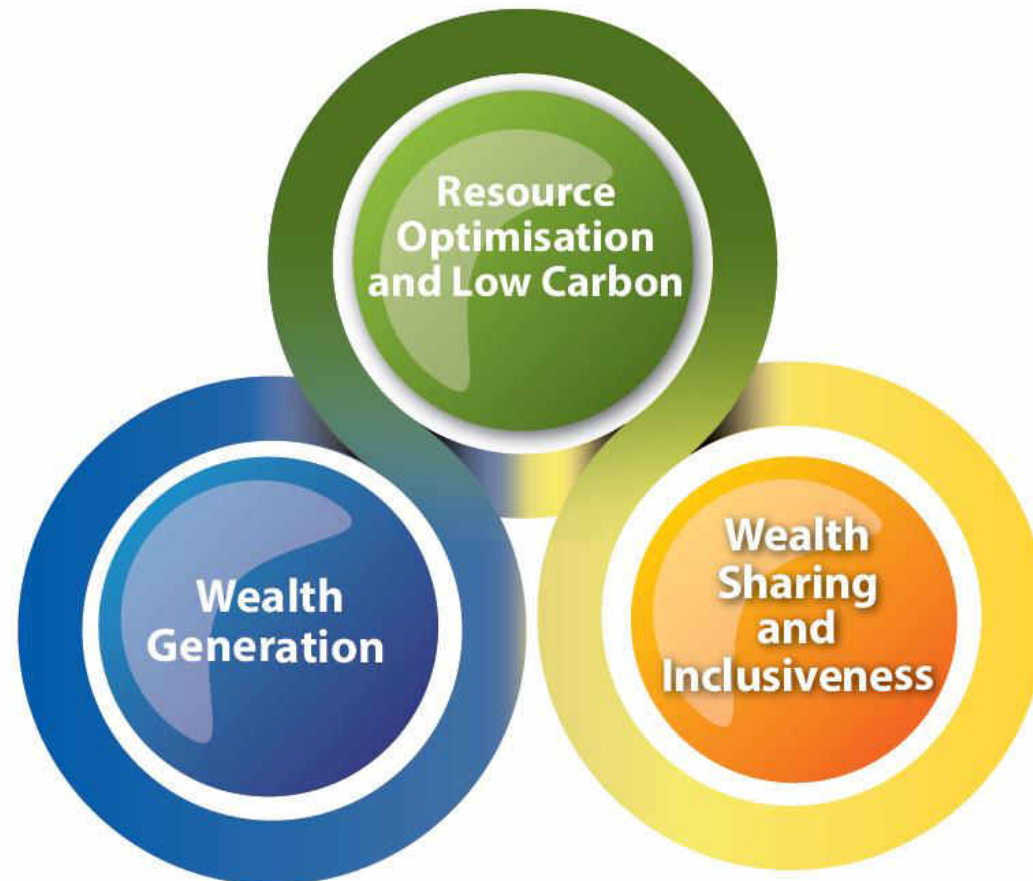
Electronics	Textiles & Clothing
E-ASEAN	Agro-based Products
Healthcare	Fisheries
Wood-based Products	Air Travel
Automotive	Tourism
Rubber-based Products	Logistics



A Snapshot of CDPii

Iskandar Malaysia Holistic Eco-system

A resilient ecosystem, anchored by wealth generators, creating regional wealth that is to be shared equally among communities. Wealth generation and wealth sharing, balanced by optimal use of ecological assets, would enhance the Quality of Life in Iskandar Malaysia, turning it into a leading global region. Alongside this, spatial management and good governance would enable the realization of its vision and goals by 2025.



Five(5) Big Moves to lead Iskandar Malaysia towards becoming a Sustainable Metropolis of International Standing

Big Move 1 Inclusive Iskandar Malaysia



Mainstream wealth sharing through spatial development to achieve a resilient and inclusive society in Iskandar Malaysia

Big Move 2 Greening Iskandar Malaysia



Transforming Iskandar Malaysia into a green and low carbon region through urbanscape and protection of ecology

Big Move 3 Destination Iskandar Malaysia



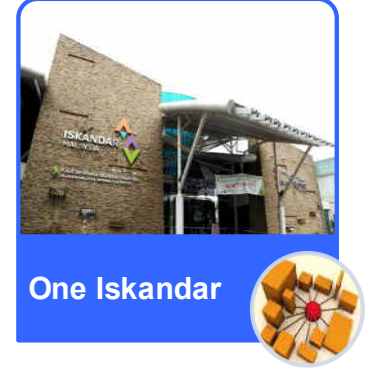
Leveraging on assets and resources of Iskandar Malaysia to create a fulfilling visiting experience that will further enhance the local tourism industry

Big Move 4 Port Iskandar Malaysia



Positioning Iskandar Malaysia as a world class dynamic logistics and maritime hub in ASEAN and Asia Pacific

Big Move 5 Iskandar Malaysia Urban Observatory

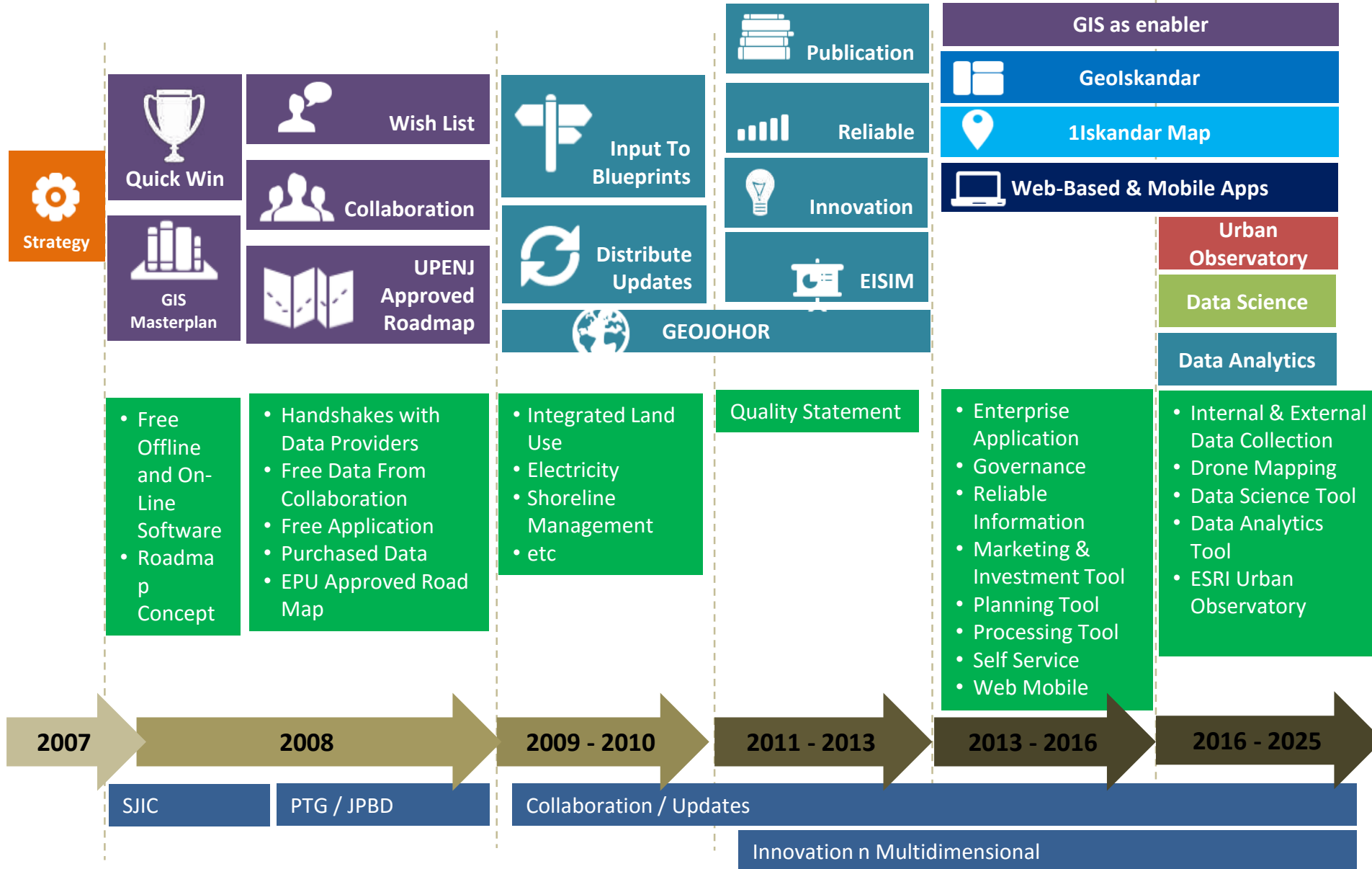


A 'single window' that shall seamlessly link people to information data and resources that shall enhance service transparency and position Iskandar Malaysia as a competitive global region

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GIS Big Picture Strategy & Approach



IRDA Roles in Driving GIS in Iskandar Malaysia

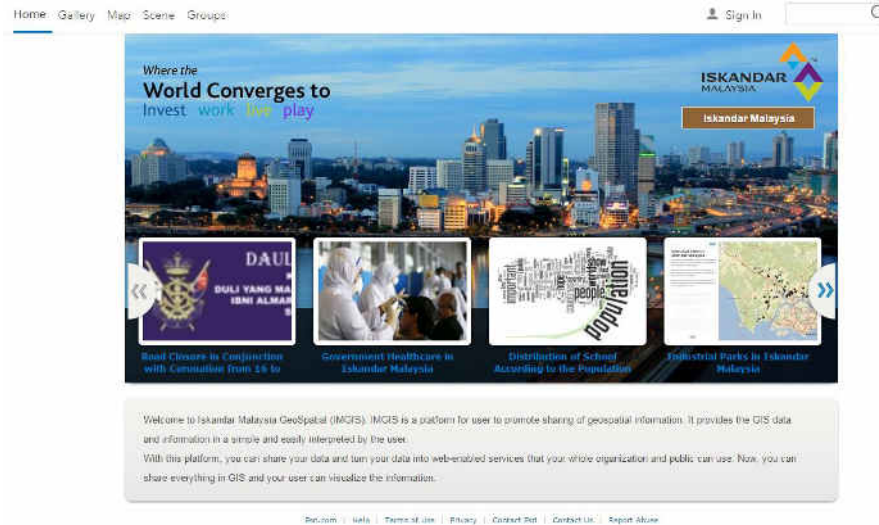


Iskandar Malaysia Geospatial & Geolskandar

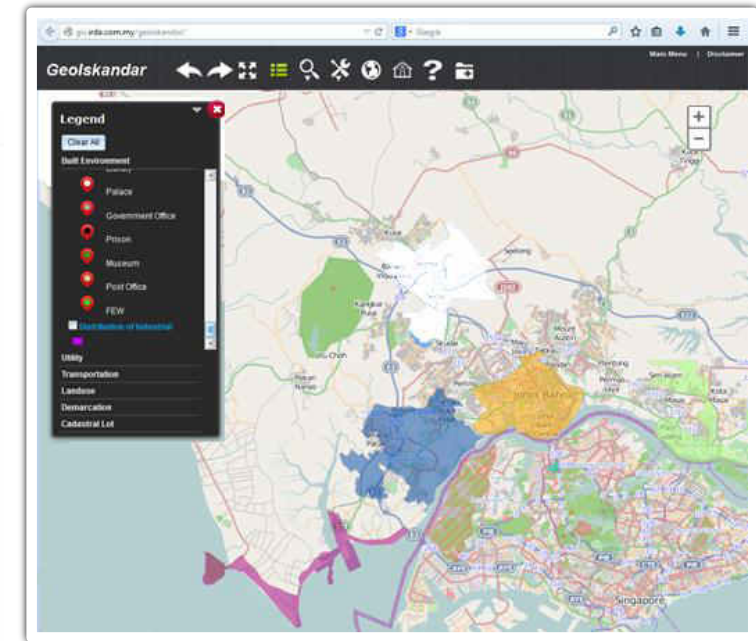
Objectives

- To provide reliable information via map base.
- To provide a platform of GIS ready for all the various department in IRDA to use.
- To provide self-service application that allow user easy to get the information
- To help organizational in decision-making activities

Iskandar Malaysia Geospatial is an web-based application that allows user to view the spatial distribution via web-based . It is open to the public and authorized person for selected data.



Geolskandar is an application that allows user to view the spatial distribution via web-based . It can be only accessed by IRDA staff and authorized personnel.



Functionalities :



Dynamic Layers



Search



Query & Select



Drawing Tool



Measurement



Editing



Export To Excel



GeoRSS



Printing

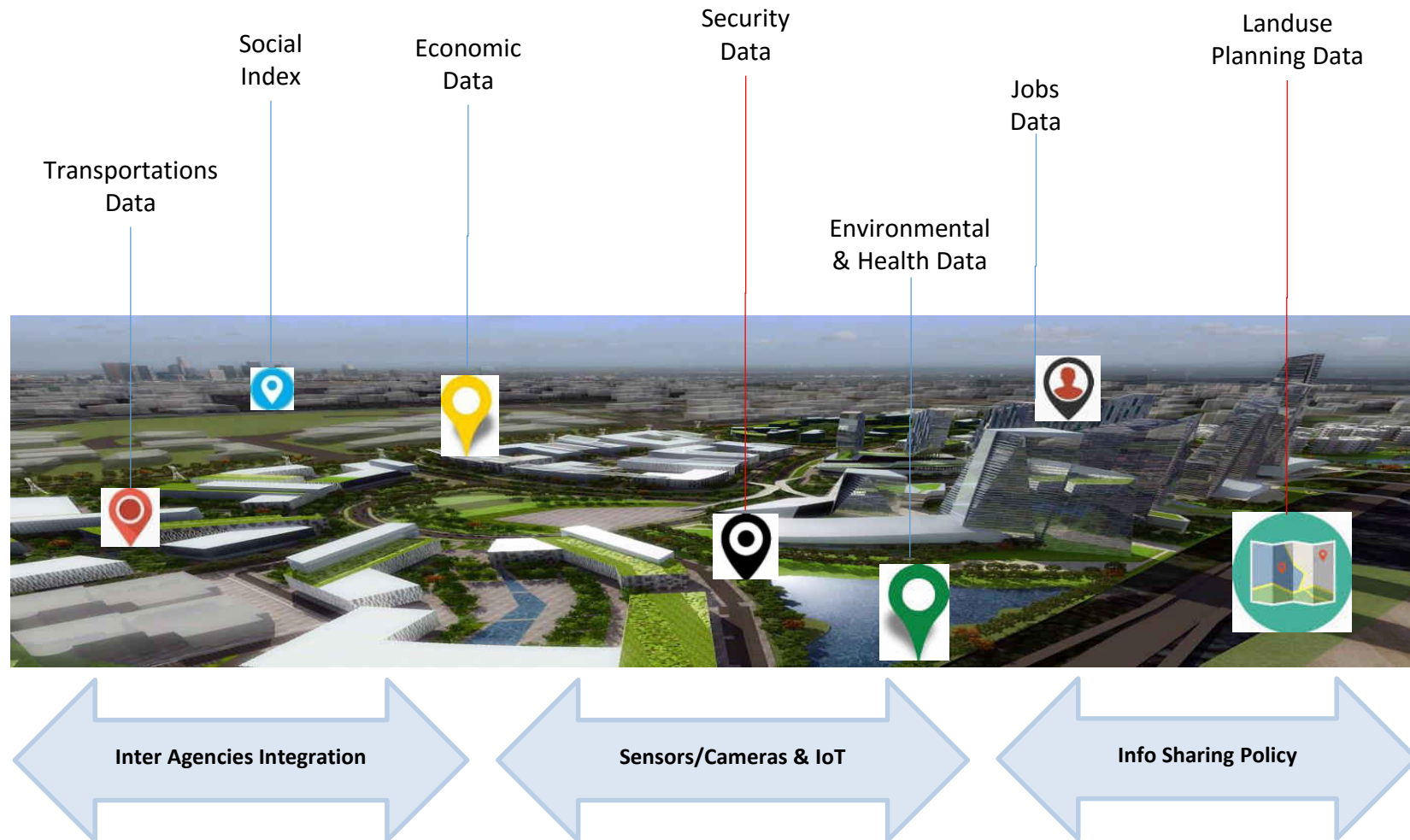
Our Geolskandar System will be the key tool of Urban Observatory



IRDA's Geoliskandar are currently used in various functions



Smartcity BigData

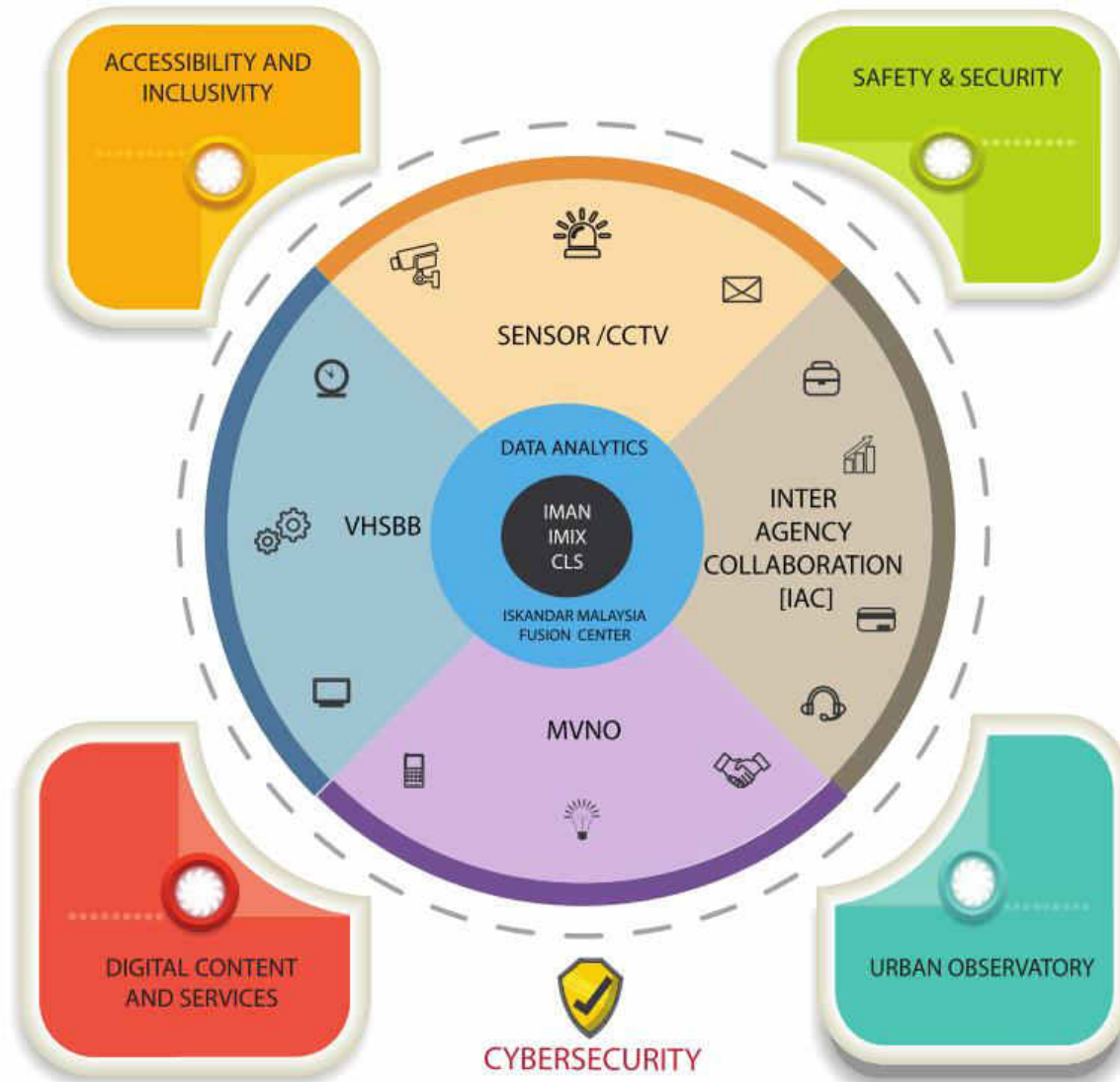


Objectives of Urban Observatory (UO)

- To identify and integrate urban information needs;
- To build urban information focusing on indicators and best practices;
- To provide information and analysis for more effective urban decision making
- To share information & knowledge using modern information technology



Integrated ICT Infrastructure for Iskandar Malaysia (IM3i)



- Internet of Things (IoTs)
- BigData
- Mobility

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Our journey to Smart City



Smart City Iskandar Malaysia
 endorsed by Malaysian PM
 1st November 2012



Smart Healthy City



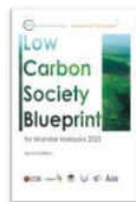
Smart City Booklet



IM Smart City
 Recognition Guideline
 for Award



Comprehensive
 Development Plan
 2006-2025



Low Carbon Society
 Blueprint for
 Iskandar Malaysia
 2025



COP 18, Doha



COP 19, Warsaw



SUSTAINABLE
 ENERGY FOR ALL
 SE4All



COP 20, Peru



Comprehensive
 Development Plan II
 2015-2025

**METROPOLIS
 OF INTERNATIONAL
 STANDING**



Smart City framework and initiatives as a tool to expedite IM vision and holistic ecosystem

Eleventh Malaysia Plan 2016-2020 acknowledges the necessity of smart city development focusing on infrastructure strengthening to support economic expansion and quality of life

Objectives

- How we **focus, think and implement** to achieve Iskandar Malaysia vision in 2025.
- Transform the **quality of life** and accelerate economy through a **sustainable economic and technological ecosystem** towards smart, connected & inclusive communities.

Strategies

- Widespread and innovative use of **information and communication technologies (ICT)** to plan and share resources for economic, environment and social developments towards **better quality and sustainable living**.
- Integration of **economy, environment and social**, focusing on 6 factors namely **Smart Economy, Smart Governance, Smart Environment, Smart Mobility, Smart People and Smart Living**.



6 Dimensions and 28 Characters, defined Smart City Iskandar Malaysia



SMART ECONOMY

Attract economy through smart investment

- Economic Growth and Value Creation
- Innovative economic growth
- Equitable Wealth Distribution
- Entrepreneurship



SMART ENVIRONMENT

Manage environment through smart collaboration

- Clean environment
- Environmental protection
- Green development
- Green infrastructure
- Smart Growth
- Green Economy

Smart Environment
Smart Mobility



Smart Economy
Smart Governance

Smart People
Smart Living



SMART GOVERNANCE

Smart governance that focus on 'rakyat' needs

- Public Participation
- Efficient Public and social services
- Private Public Partnership
- Transparent governance



SMART MOBILITY

Provide smart mobility and connectivity

- Efficient Road accessibility
- Efficient Public transportation
- Non motorized accessibility
- Availability of ICT infrastructure



SMART LIVING

Provide smart living quality

- Safety and security
- Low Carbon lifestyle
- Housing quality
- Educational quality
- Health Conditions
- Cultural facilities
- Tourist/recreational attractiveness



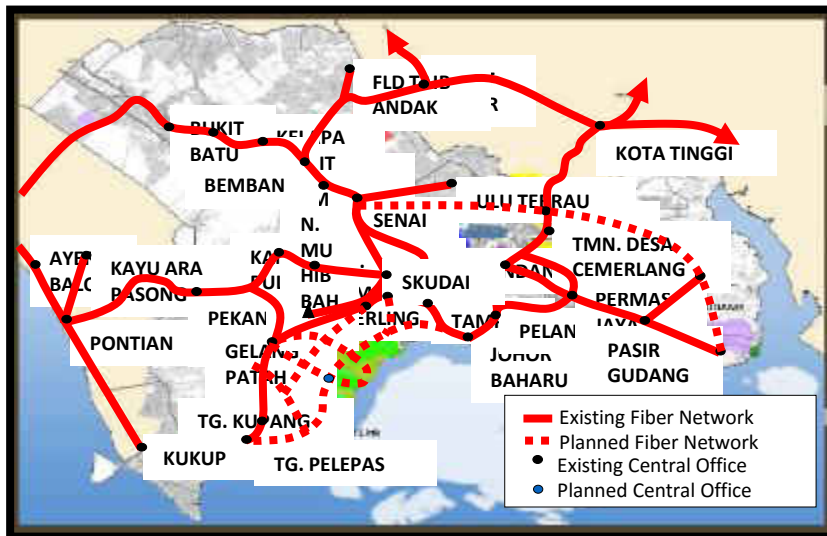
SMART PEOPLE

Produce smart people and mindset

- Caring community
- Racial Harmony
- Skilled and Talented Human Capital

35 programs were identified

Smart Mobility



ICT Infrastructure Improvement

Smart Mobility



EV Cars and Charging Station (by IRDA)



www.jomlah.com.my



Mobility management system (IRDA)

Quick Wins completed since launched

Smart Living



Johor : 200 hotspots
IM : 37 hotspots

FREE WiFi

Wireless Iskandar Malaysia (Johor State)

Smart Environment



95% agree

Level of security improved

Fear of crime reduced

CCTV (IRDA and City Council)

Smart Governance



** GREAT : Government Regional Electronic Advancement Transformation

Government Regional Electronic Advancement Transformation (MAMPU)



- Owner: Johor State Government
- DCS Operator : Jana DCS Sdn Bhd
- Not fully utilized due to dev phases in the area.

District Cooling System for Kota Iskandar (DCS Janakuasa)

Making the most (in progress)

Smart Environment

An integrated water treatment plant – processing both sewerage and storm water to Class II water. The project also take care of flash flood in the city via an underground retention pond



Sungai Segget River Revitalization (IRDA)

Smart Economy

A joint venture company that offer and operate smart services in Nusajaya



Signing Ceremony between Telekom Malaysia Berhad, UEM Sunrise and Iskandar Investment Berhad on Nusajaya Smart & Connected City

Nusajaya Smart and Connected City (by TM/UEM)

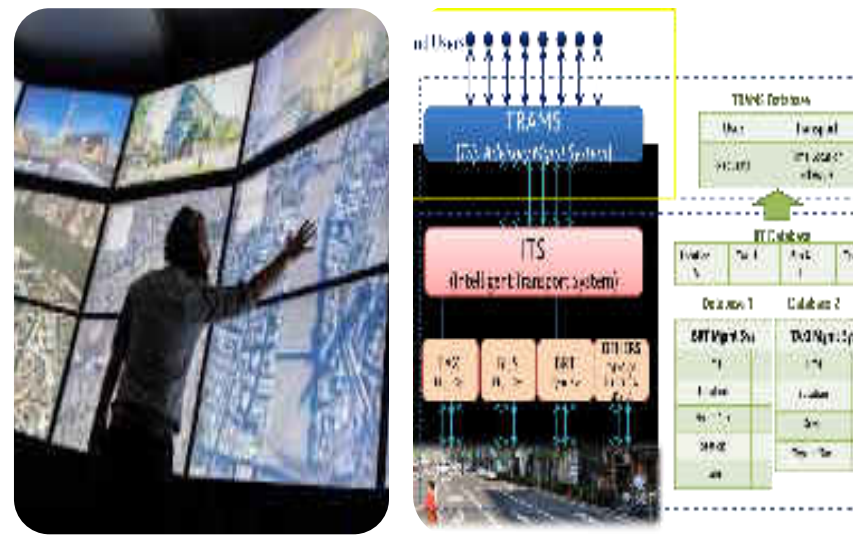
New opportunities (in pipeline)



IM as World Class Data Centre Hub.

- DC to drive the overall ICT and cyber related industry growth in IM
 - Key projects:-
 - Nusajaya Tech Park
 - Senai Hi Tech Park
 - Sedenak Iskandar Data Hub

IM as 2nd Malaysia ICT hub (IRDA/MDEC)



Centre for data collection, assessment and dissemination

- Decision-making & monitoring tools
- Accuracy in project cost estimation
- Alignment to international indicators for comparison

IM Urban Observatory (IRDA)

Breaking new grounds (future)



UNITED NATIONS DECADE OF
SUSTAINABLE ENERGY FOR ALL
2014-2024



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21-CMP11

Iskandar Malaysia as one of the world's 10 cities/regions to take part in SE4ALL programs as announced in Climate Summit 2014 in New York, United States



Agreement on 2
agendas:

1. Building Efficiency Agenda
2. District Energy



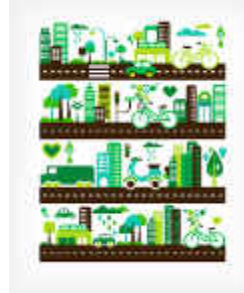
Building Efficiency and District Energy : Lima-Paris Action Agenda under COP and UN Sustainable Energy for all (SE4All)

Breaking new grounds (future)



This can be a platform for Iskandar Malaysia to identify potential partners from the UK for collaboration with local companies in implementing research and development (R&D), and innovation for Sustainable Smart Cities development, new green building materials and technologies

ISKANDAR MALAYSIA AND UKTI SIGN MOU TO PROMOTE COLLABORATION ON SMARTCITY INITIATIVES



To improve Iskandar Region sustainable transport policies and disseminate its results to other regions in Malaysia and countries in South-East Asia.

ISKANDAR INNOVATIVE SUSTAINABLE TRANSPORT SOLUTIONS



ESTABLISH SMART CITY ISKANDAR MALAYSIA GUIDELINES AND RECOGNITION PROGRAMS

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Many challenges faced in driving smart city initiatives

1: Strengthen the institutional framework

- Lack of specific policy and strategy
- No mandatory regulations
- Lack of stakeholder participation

1. Establish :
 - steering committee
 - Energy Unit for IM
 - standards and guidelines for recognition
2. Review legal mechanisms



2: Provide conducive business environment

- Limited incentives and financial support
- Uncompetitive product cost
- Limited Skills and knowledge workers

1. Explore monetary and fiscal measures
2. Knowledge sharing
3. Promote foreign direct investments
4. Capacity building



3: Intensify Human Capital Development

- Few research and educational institutions focus on Smart City agenda
- Limited technical capacity

1. Financial grants or assistance
2. Centres of excellence or research institutes
3. Smart partnerships between gov, industries, research institution



4: Intensify Smart City Research and Innovations

- Limited funding to encourage R&D – Local grant
- Lack platform for networking of related R&D

1. Smart partnerships between gov, industries and research institute
2. Encourage link between local, regional and international centres of excellence



5: Promotion and public awareness

- Lack awareness on smart city
 - accessible info
 - effective promotion
 - involvement of media, NGO and individual

1. Comprehensive roll-out programmes to increase public awareness
2. Partnering with developer for experiential centre



Iskandar Malaysia
A Strong & Sustainable Metropolis of International Standing



**THANK YOU
FOR YOUR ATTENTION**

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