

# LOW CARBON DEVELOPMENT IN ISKANDAR MALAYSIA

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**10<sup>th</sup> June 2014**



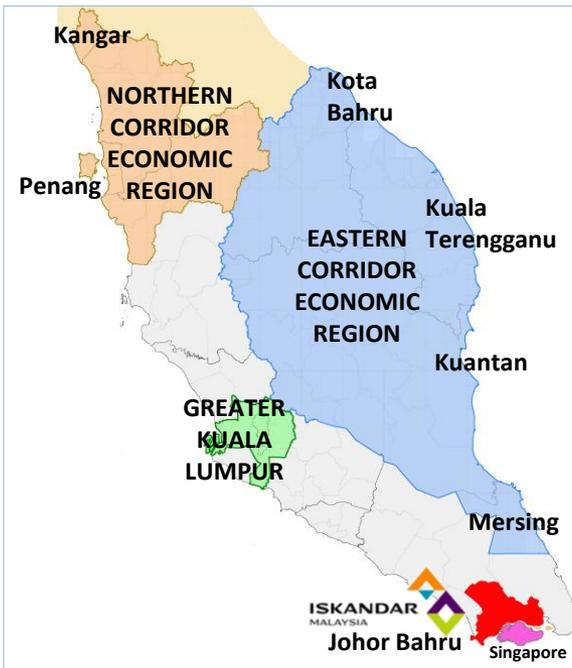
**PROJECT : JB TRANSFORMATION  
CONCEPTUAL DESIGN AFTER REHABILITATION OF SUNGAI SEGGET**

**Overview of Iskandar Malaysia  
IRDA's role in the Green Agendas  
Planning the agendas  
Implementing the agendas**



Iskandar Malaysia is Malaysia's economic growth corridor covering a total area of 2,317 sq km (12% of Johor State)

## Iskandar Malaysia in the context of Regional Corridors



Iskandar Malaysia



**3 times larger**

Iskandar Malaysia



**1.3 times larger**

Iskandar Malaysia



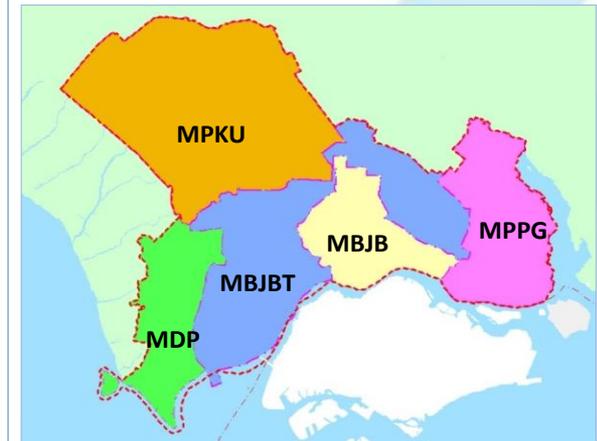
**11 times smaller**

Iskandar Malaysia



**30 times smaller**

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



	2005	2010	2025
Population (million)	1.35	1.61	3.00
Labour Force (million)	0.61	0.70	1.43
Employment (million)	0.62	0.72	1.46

Source: CDP 2006 – 2025, Population Census 2010 and consultant estimates

A vision towards becoming a **strong, sustainable metropolis of International standing**

## Holistic Eco-system:

A resilient ecosystem, anchored by

- **Wealth generators**
- **Wealth generation**
- **Wealth sharing**

Realization via spatial management and good governance



ISKANDAR MALAYSIA ECO-SYSTEM



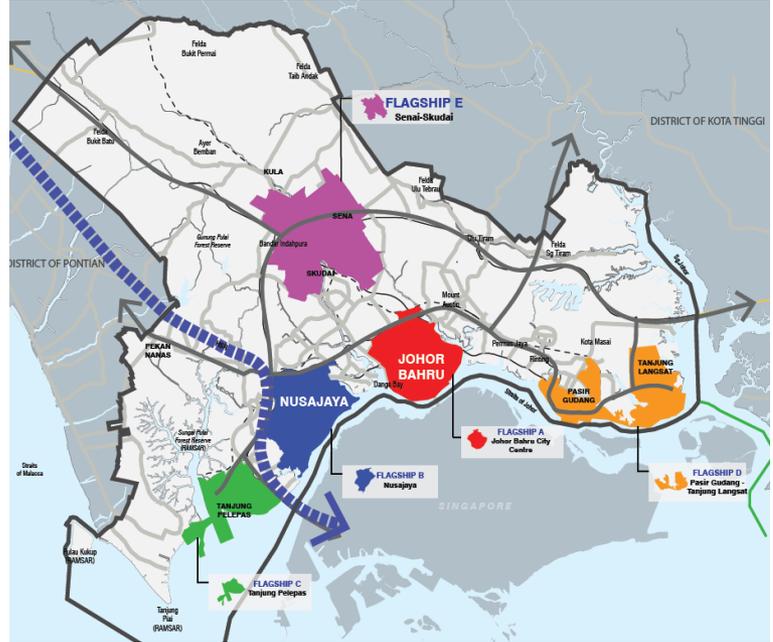
# Focus development area in 5 flagship zones

## FLAGSHIP DEVELOPMENT ZONES

Geographically targeted economic development areas for promoted economic clusters

Priority areas for major investments and catalytic development.

- Flagship A: JBCC
- Flagship B: Nusajaya
- Flagship C: Tanjung Pelepas
- Flagship D: Pasir Gudang – Tanjung Langsat
- Flagship E: Senai-Kulai



Source: Integrated Land Use Blueprint & Iskandar Regional Development Authority (IRDA)

## FLAGSHIP B: NUSAJAYA



- Education
- Healthcare
- RIREBS (Mostly Real Estate and Business Services)
- Creative
- Tourism (Destination Tourism)

## FLAGSHIP C: TANJUNG PELEPAS



- Transportation, Distribution and Logistics
- Centre of Excellence for Halal Hub
- Petrochemical

## FLAGSHIP D: PASIR GUDANG-TANJUNG LANGSAT



- Electronics and Electrical
- Food Processing & Oleochemicals
- Petrochemical & Oil & Gas
- Education

## FLAGSHIP A: JOHOR BAHRU CITY CENTRE



- RIREBS – Financial, Real Estate and Business Services
- Tourism (Cultural and Heritage Tourism)

## FLAGSHIP E: SENAI - SKUDAI



- Transportation, Distribution and Logistics
- Manufacturing (E&E, High Tech and Aerospace related)
- Tourism
- Education
- Cybercity

# IRDA or IM involvement in Green agenda at various level; state, national and international level

## STATE

- Drive Low Carbon Society initiatives in IM



- Coordinate Johor Green Technology Council workshop on behalf of Johor state



- Collaborate with MPPG for Nafas Baru Pasir Gudang

## NATIONAL

- Support LCCF initiatives under 3 key projects
- MoU with MGTC on driving green initiatives in IM



- Representing Johor state in the IGEM exhibition



## INTERNATIONAL

- Collaborate with UTM, JICA, NIES, Univ of Kyoto and Yokohama in planning and implement LCS for ASEAN region



- Launched LCS Blueprint and 10 action plans at COP 18 & 19 and as observer during COP 19



- IM represent Malaysia under UNIDO peer review session under purview of MITI
- CLCF (Leeds U): Climate Smart Cities – Energy-efficient buildings, industries, Transport

# IM challenges is to meet requirements of 3 million people and 769,230 houses in year 2025



## *Commitment*

Sustainable Metropolis  
of International Standing

**“50% Carbon Emission  
Reduced by 2025”**

## *Demand*

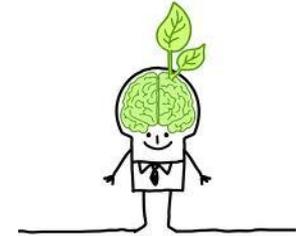


**2025**

3 million population  
769,230 houses needed



## *Actions*

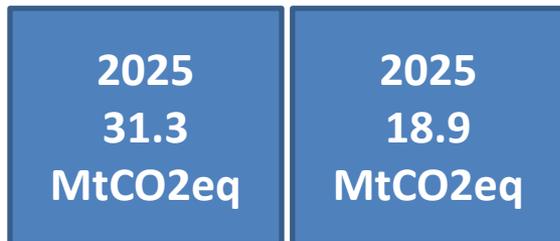
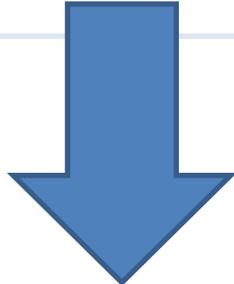
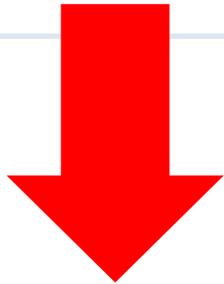


**Green Agenda, All  
Blueprints and Low  
Carbon Society**

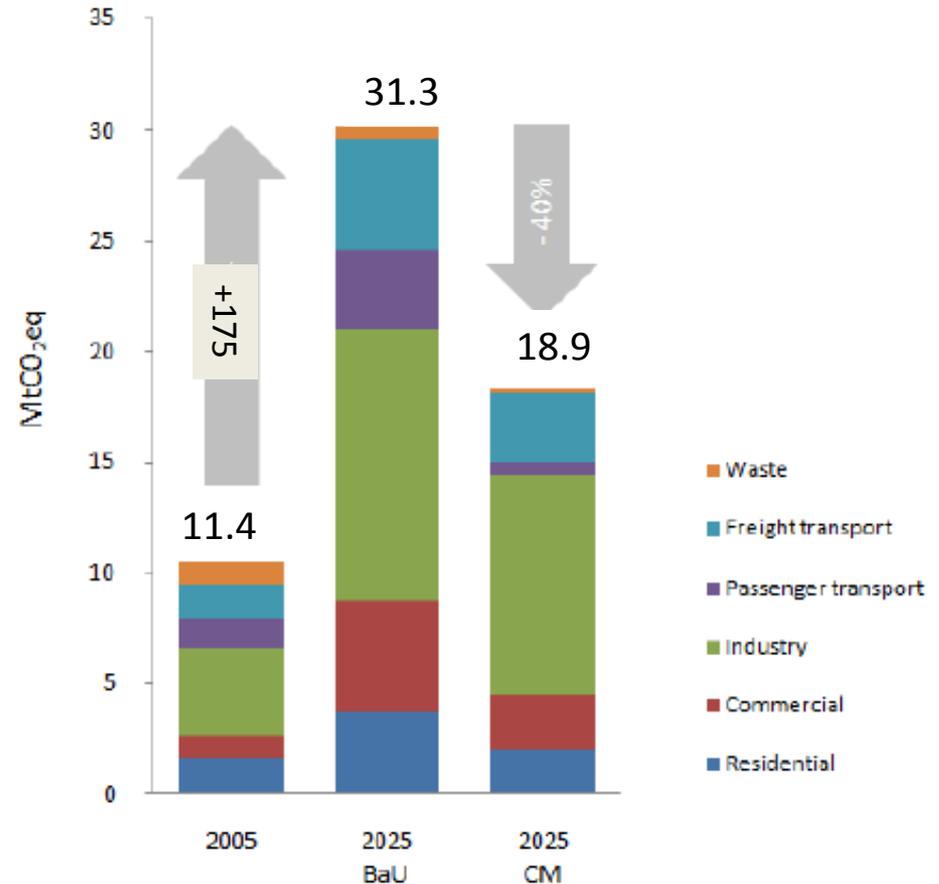
12 Actions via:  
Green Economy  
Green Community  
Green Environment

# IM established baseline and Co2 targets to ensure sustainability of IM in year 2025

## Target Carbon Emission in IM



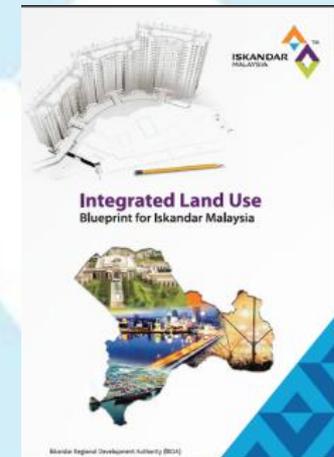
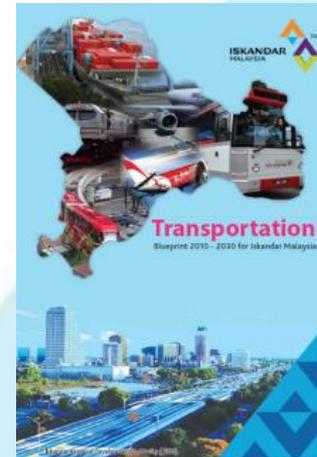
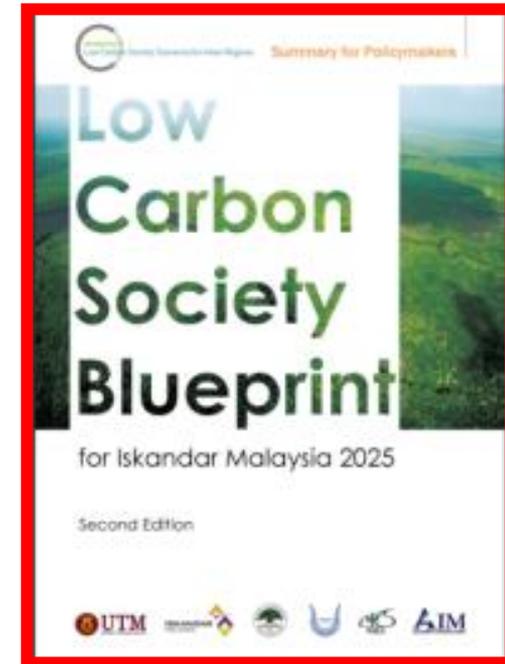
## GHG emission by sectors



# Several inter related blueprints provide road map to reduce CO2 and further managed by Low Carbon Society Blueprint 7



**Comprehensive Development Plan ii (2013-2025)**



# Launched Low Carbon Society Blueprint in COP18, Doha, 2012 and the 10 action plans in COP19, Warsaw

**Collaboration of**

**Needs holistic approach  
towards green economic  
growth to ensure  
sustainability and align with  
IM vision to be come  
metropolis of international  
standing**

**Endorsed by Malaysia Prime  
Minister YAB Dato' Sri Mohd  
Najib bin Tun Abdul Razak on  
6<sup>th</sup> November 2013**



# 12 strategies in Low Carbon Society Actions for IM and by 3 Main Themes

	Action Names	Themes
1	Integrated Green Transportation	<b>GREEN ECONOMY</b>
2	Green Industry	
3	Low Carbon Urban Governance	
4	Green Buildings & Construction	
5	Green Energy System & Renewable Energy	
6	Low Carbon Lifestyle	<b>GREEN COMMUNITY</b>
7	Community Engagement & Consensus Building	
8	Walkable, Safe, Livable City Design	<b>GREEN ENVIRONMENT</b>
9	Smart Growth	
10	Green and Blue Infrastructure & Rural Resources	
11	Sustainable Waste Management	
12	Clean Air Environment	

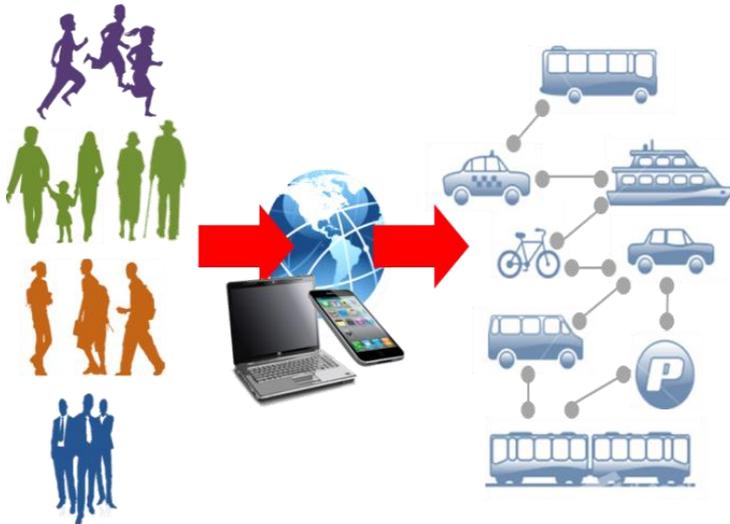
# IRDA piloted the 10 action plans from LCS in collaboration with government agencies and local authority

<p><b>1. Integrated Green Transportation – Mobile Management System</b></p> 		<p><b>2. Green Economy Guidelines</b></p> 		<p><b>3. Eco-Life Challenge Project for Schools</b></p> 	
<p><b>4. Portal on Green Technology</b></p> 		<p><b>5. Trees for Urban Parks/Forests</b></p> 		<p><b>6. Responsible Tourism and Biodiversity Conservation</b></p>	<p>In 3<sup>rd</sup> year</p>
<p><b>7. Bukit Batu Eco-Community</b></p> 		<p><b>8. GAIA – Green Accord Initiative Award</b></p> 		<p><b>9. Low Carbon Village FELDA Taib Andak</b></p>	<p>In phase 2</p>
<p><b>10. Special Feature: Smart City – Pasir Gudang ‘NAFAS BARU’: CLEAN AND HEALTHY CITY – will be presented in the break out session 2: Pelaksanaan Inisiatif Hijau di Peringkat PBT</b></p>					

# Quick update :

## 1. Mobility Management System for Transportation

Aspires to shape way people travel, focusing on people to use more public transport thus reducing carbon emission



An online platform, that connects citizens and visitors with the various modes of travelling within the Iskandar Malaysia region.



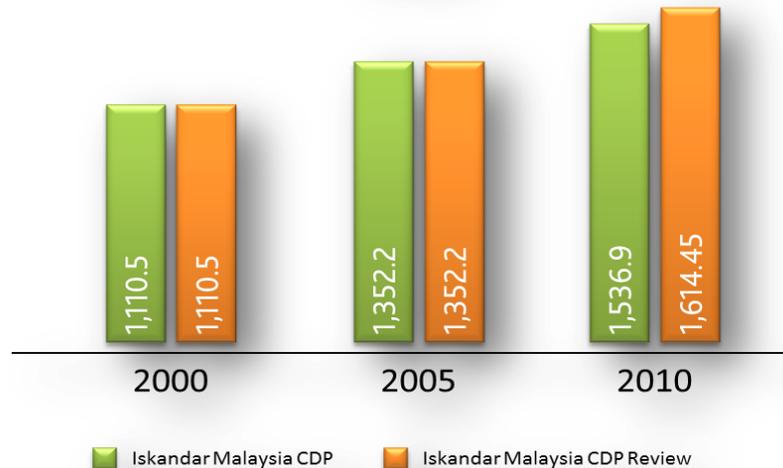
**Trip Planner**  
CUSTOM PLANNER

- 1 I am starting my trip from:**  
1 centre street  
Use N, E, S, W for North, East, South, West  
in Manhattan
- 2 I am going to:**  
1 times square  
Use N, E, S, W for North, East, South, West  
in Manhattan
- 3 I am leaving at:**  
 I want to arrive by:  
5 20 p.m. December 31
- 4 Optional Preferences:**  
Minimize My Transfers  
I want to Walk No More than 1/4 mile  
I want to Travel by:  
Subway  Bus  Express Bus  Any   
Accessible trip required? yes  no  **Go**



# Quick update : 3. Eco life Challenge Programs

Iskandar Malaysia Population Growth 2000-2010  
( '000)



**198** primary schools,  
Phase 1 - **23** schools

**2014**, additional **80** schools  
involved in ELC programme.



# Quick update : 9. Low Carbon Village FELDA Taib Andak

## 12 Actions:

1. Effective Microorganism (EM) / composting project
2. Plantation of 'buluh madu' bamboo
3. Provision of recycling bin at each blocks
4. Mosque energy saving (solar system) and housing energy saving project
5. Promotion of the use of bicycle
6. Control air pollution from factories
7. River rehabilitation project
8. Organic farming - livestock and vegetables
9. Social awareness program
10. Provision of pedestrian path
11. Zero open burning
12. Rain water harvesting for domestic use



# IRDA drive green technology by facilitating private sectors for sustainable business model and accreditations



## Green Industry

Promote the ecological & economic benefits of greening existing industries thru facilitation of investment and new development

Green Economy Guidelines



## Green Building and Construction

Promote and Facilitate Green Building in New Construction

Pilot project at Perumahan Iskandar Malaysia



## Green Energy System and Renewable Energy

Cypark Solar Farm,  
Pontian  
Biomass

Waste to Energy

EV charging station

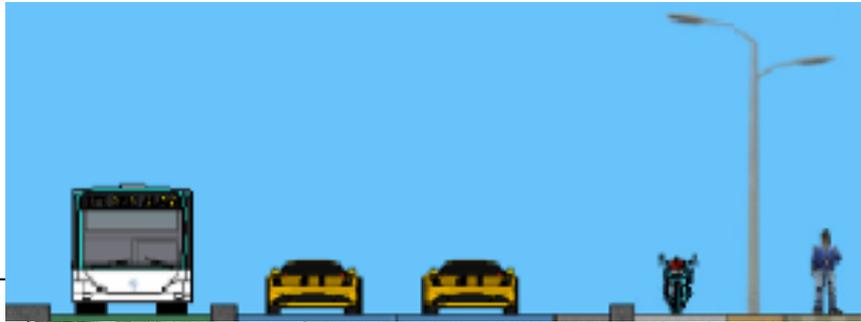
# Private Sector to promote cycling;- Seri Austin: 1<sup>st</sup> to initiate; Bandar Seri Alam: Longest connected cycle network (34km)



Signage  
Bicycle Lane



Signage  
Track Bicycle



Logo Marking on Bicycle Lane



Bicycle  
Crossing Lane



Safety  
Distance

# Promote green agendas; technology, township and buildings in IM via various expert talk, seminars and workshop

## *Policy maker and implementers*

## *Developers*

## *Contractors*

## *Suppliers*



Provide understanding of LCS, IM Green agendas and awareness on green technologies



Get basic understanding on GBI, what are the benefits ie incentive packages and to learn about new green products



Get Basic Training on Green Projects and get to know with developers



Promote Green Products to Developer, Professionals, and Contractors.



## Governance Structure – coordination of policies

- Close collaboration between all agencies in Malaysia to ensure policy dovetailing and acceptance



## Public awareness & direct involvement

- Awareness, involvement and readiness of everyone in the implementation of LCS; stakeholders' preparedness



## Monitoring and review

- LCSBPIM Actions need regular monitoring and review to ensure effectiveness and acceptance



## Visible evidence & creating champions of LCS

- In order to ensure public readiness and acceptance of a high sustainability Iskandar Malaysia and Green Growth

# THANK YOU

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