

# Iskandar Malaysia

## Strong Sustainable Metropolis of International Standing



**Side Event on 2<sup>nd</sup> East Asia Low Carbon Growth Partnership Dialogue**  
Knowledge Platform for Low Carbon Development

**Low Carbon Society Blueprint for Iskandar Malaysia: From Science to Policy Implementation**

Presented by Boyd Dionysius Joeman  
17 May 2013, Tokyo

# Low Carbon Society Blueprint for Iskandar Malaysia: From Science to Policy Implementation

- 1) Iskandar Malaysia – a brief introduction
- 2) IRDA's Green-focused Agenda
- 3) The LCS Project – From science to regional policy
- 4) LCSBPIM 10 Actions
- 5) LCS 2013 – 10 proposed programmes
- 6) And Finally ...

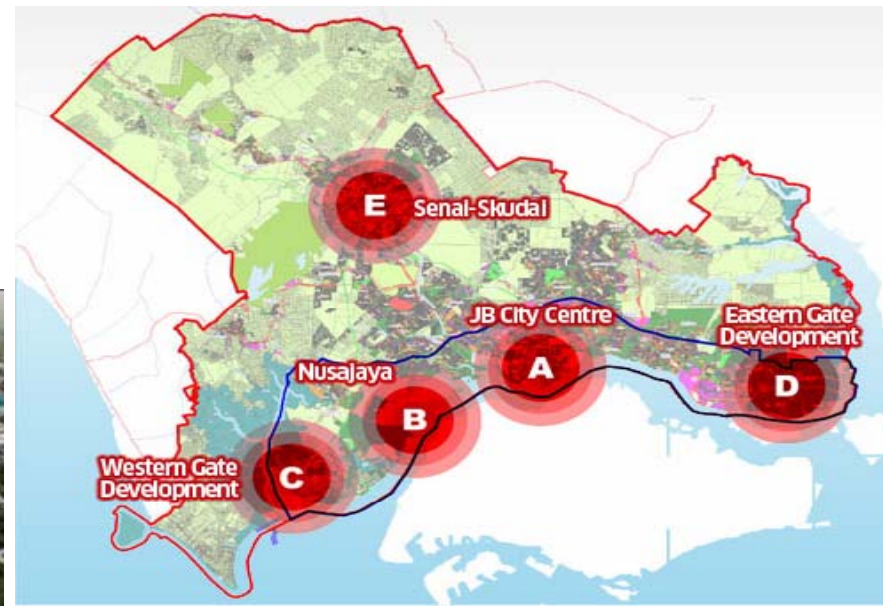


# Iskandar Malaysia at a Glance

A



E



B



C



D



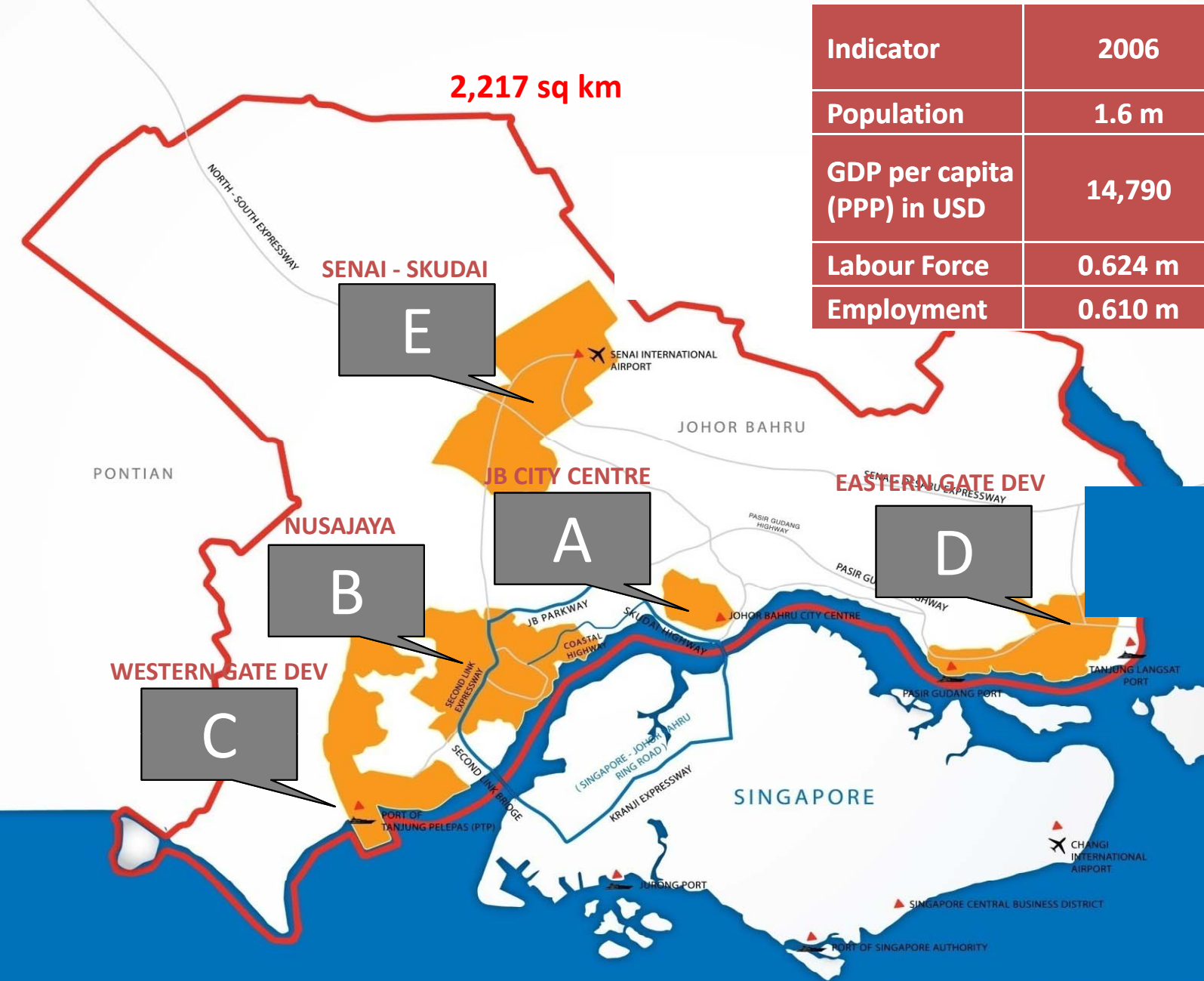


# Iskandar Malaysia in brief

2,217 sq km

Indicator	2006	By 2025	Annual rate of change (%)
Population	1.6 m	3.0 m	4.63%
GDP per capita (PPP) in USD	14,790	31,100	5.78%
Labour Force	0.624 m	1.46 m	7.00%
Employment	0.610 m	1.428 m	7.00%

*Projected Growth 2006 to 2025*

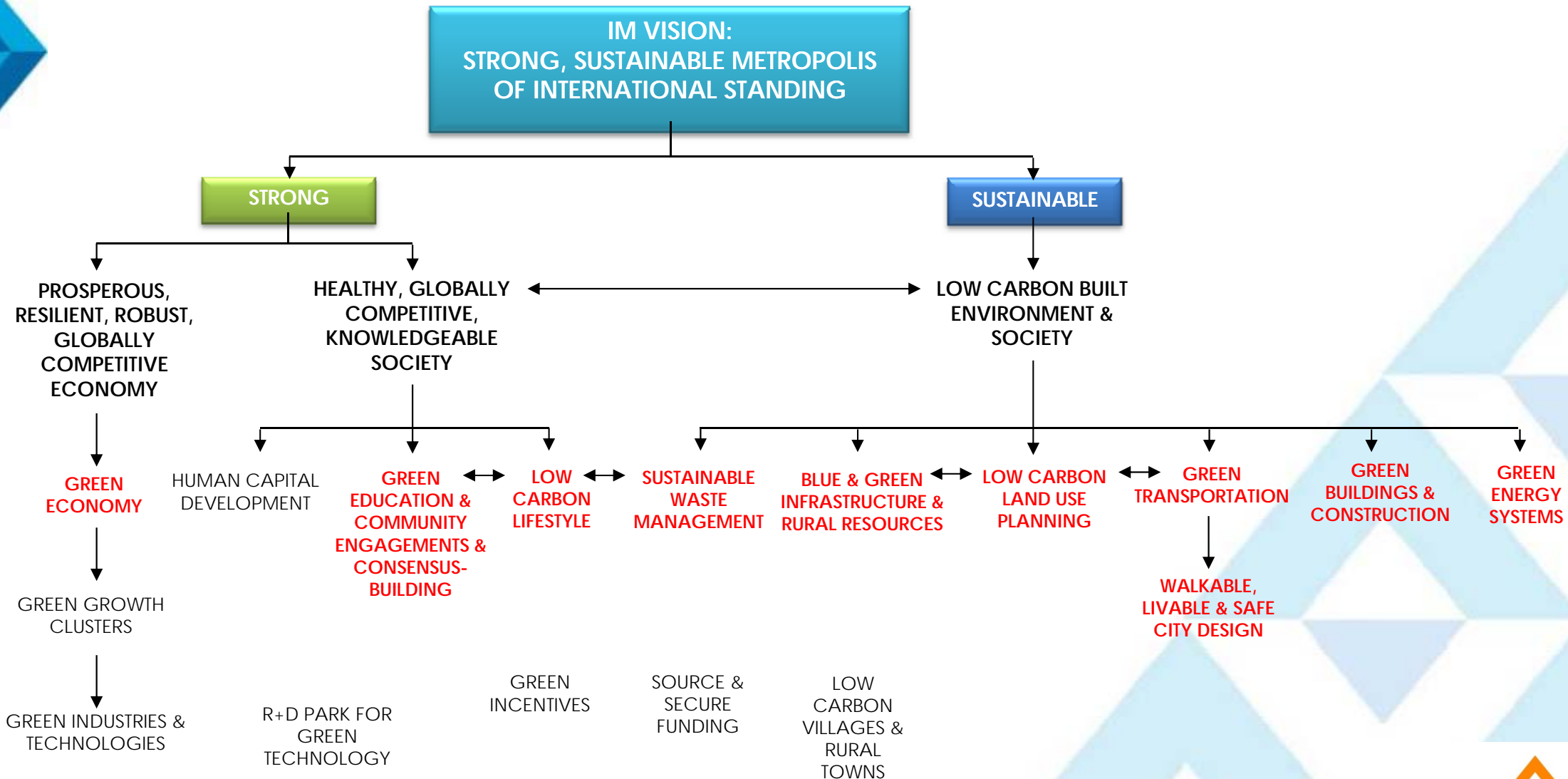


- A** JB Central Business District  
JB Conservation & Heritage Zone  
Danga Bay
- B** Kota Iskandar (Johor New State Admin. Centre)  
EduCity@Iskandar  
Medini Iskandar Malaysia
- C** Port of Tanjung Pelepas (PTP)  
Free Trade Zone  
RAMSAR World Heritage Park
- D** Tanjung Langsat Industrial Park  
Pasir Gudang Port  
Tanjung Langsat Port
- E** Airport City

Five flagship zones of Iskandar Malaysia

# Green-focused Agenda - Rationale

## Iskandar Malaysia's Strategic Environmental Policy Approach



# Policy-Maker's Viewpoint



## Rationale on why Iskandar Malaysia has adopted the Green-Focused Agenda

**Astute planning & management of resources** – on Issues of climate change & global warming; setting targets for a low carbon footprint; and positive support and promotion of a green economy through increased investments in environmental assets, green technology, innovation & production.

**Without the GREEN, there is no SUSTAINABLE DEVELOPMENT.**

# Background

## Development of Low Carbon Society Scenarios for Asian Regions



**Research Team:** Universiti Teknologi Malaysia (UTM), Kyoto University (KU), Okayama University (OU), National Institute for Environmental Studies (NIES)

**Joint Coordinating Committee:** Iskandar Regional Development Authority (IRDA), Federal Department of Town and Country Planning (JPBD), Malaysia Green Technology Corporation (MGTC)

**Sponsorship:** Japan International Cooperation Agency (JICA) , Japan Science and Technology (JST)

**Period:** 2011 - 2016

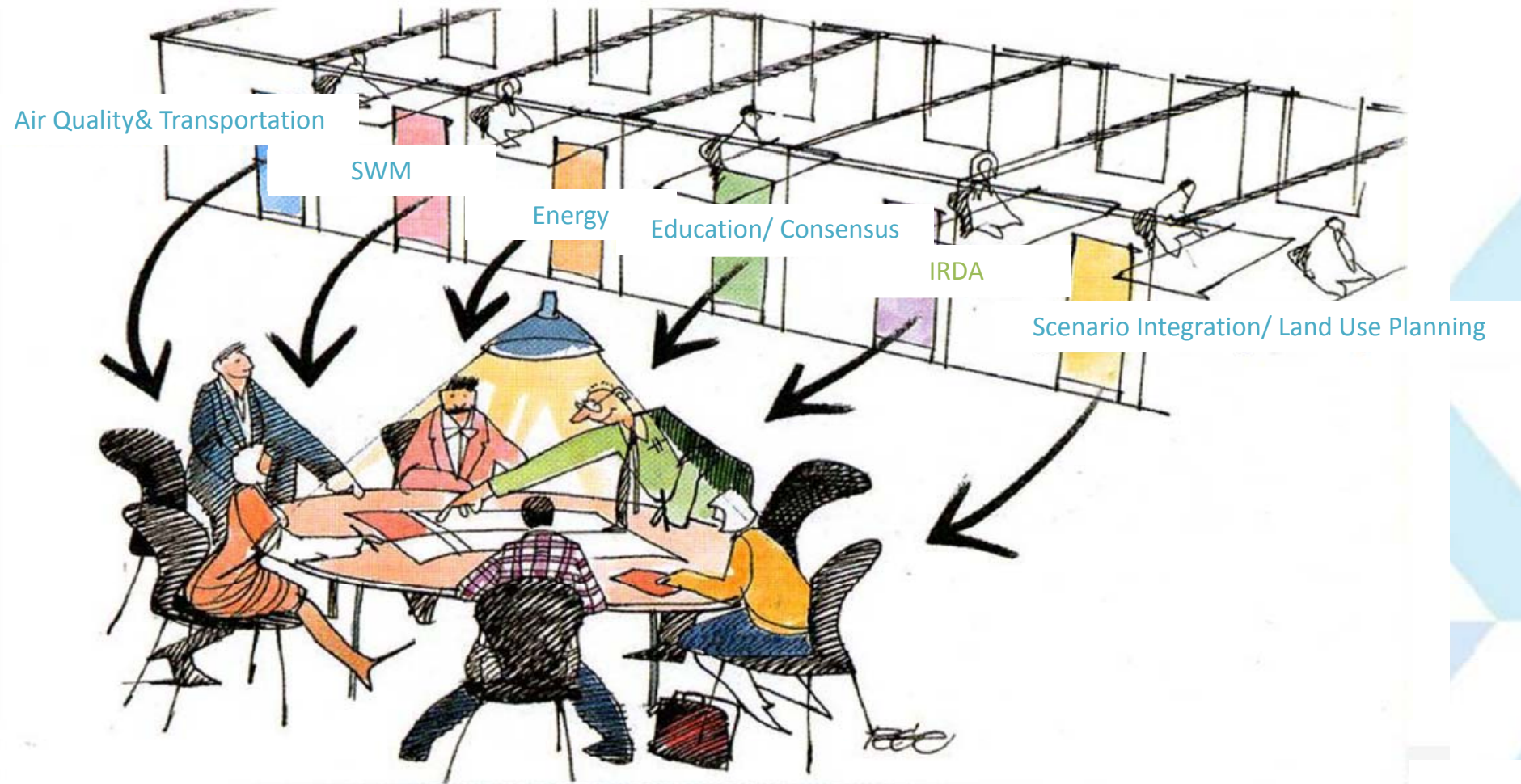
### Research Outputs:

- i. **Methodology** to create LCS scenarios which is appropriate for Malaysia is developed.
- ii. **LCS scenarios** are created and utilized **for policy development** in IM.
- iii. **Co-benefit of LCS policies** on air pollution and on recycling-based society is quantified in IM
- iv. **Organisational arrangement of UTM** to conduct trainings on LCS scenarios for Malaysia and Asiar is consolidated, and a network for LCS in Asia is established



# LCS Research Groups

## Development of Low Carbon Society Scenarios for Asian Regions



# Launching of the LCSBPIM – COP18 Doha

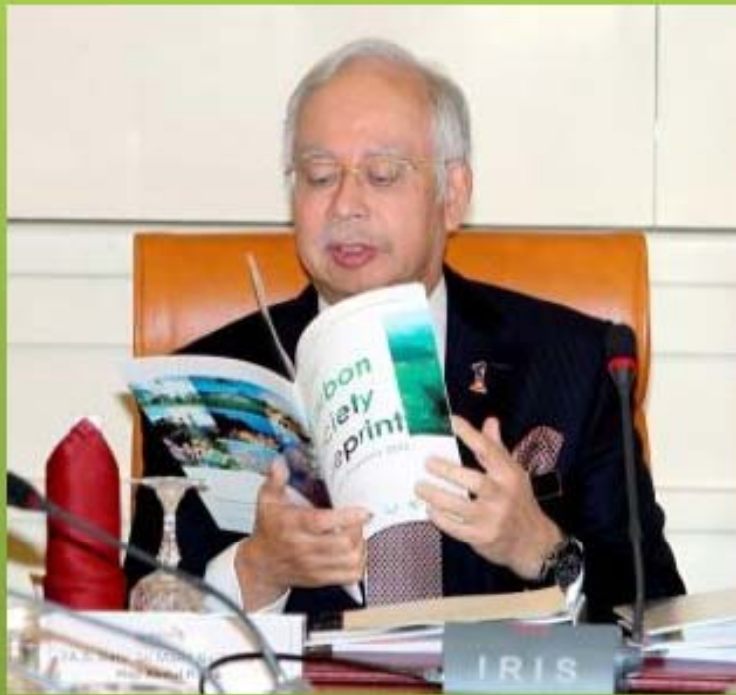
## Implementation of LCSBP Actions – 10 programmes in 2013





## Significant global milestones of 2012 for LCSIM

11 Dec – The PM endorses the launching of LCSBPIM at COP18 during MOA



### LCS Spin-offs

#### Future City Initiative (Japan)

Ageing Population; Disaster Planning; Green Economy – IRDA will again be attending FCI in Feb 2013

#### CASBEE City

1<sup>st</sup> Pilot study outside Japan is being done in Iskandar Malaysia (research underway by NIES and Keio University (Tokyo). Results to be presented on 21 Jan 2013 at Expert Talk in KL

*Comprehensive Assessment System for Built Environment Efficiency – proven tools already used in Japan for building efficiency (more comprehensive than GBI or Green Mark).*

#### UNDP – Low Carbon Cities Project

IRDA's BP implementation initiatives are proposed to be included as **showcases** for Green Transportation and Waste-to-Energy.



# LCS Actions for IM by Three Main Themes

## Development of Low Carbon Society Scenarios for Asian Regions

	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	

# PROPOSED 10 PROGRAMMES for 2013

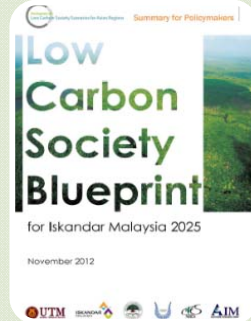
1. Governance
2. Pasir Gudang – Green & Healthy City (covers air quality, visual characteristics, recycling, water-related)
3. Eco-Life Challenge/ UNESCO Schools
4. CASBEE
5. Future City Initiative
6. Johor Bahru City Council – SWM, Energy Efficiency
7. Kulai District : Eco-Town Proposal
8. Public Transport – BRT, electronic information
9. Green Economy Guidelines/Green Business
10. Hybrid car parking

# Green Economy: On-going



## Green Transportation

- 1) Public transport system improvement  
Bas Iskandar Malaysia- social route  
**BeXTRA**- BAS EKSPRES TRANSIT- express, limited transit point
- 2) Improve JB - Singapore, JB-KL Connectivity



## Low Carbon Urban Governance

- LCSBPIM Implementation Plan – at COP19 Warsaw
- Implementation of Actions
- Danga Bay proposed waterfront project



## Green Industry

- Promote the ecological & economic benefits of greening existing industries  
(Thru facilitation of investment and new development)
- Training programme



## Green Building and Construction

- Promote and Facilitate Green Building in New Construction
- Danga Bay proposed waterfront project



## Green Energy System and Renewable Energy

- Promotion of Renewable Energy for new development
- SEDA's role



# Green Community: On-going



## Low Carbon Lifestyle

- Enhancing general public awareness
- Enhancing school awareness on going green
- Promote Energy Efficiency
- (Collaboration with other agencies)

## Community Engagement & Consensus-Building

- Input from Stakeholders and LCS Information Sharing with stakeholders in IM
- (FGD, Symposium, workshop, engagements, meetings)

# Green Environment: On-going



## Walkable, Safe, Livable City Design

Designing the  
Safe City (from  
crime) – CCTV,  
CPP

## Smart Urban Growth

Promote  
Compact Urban  
Development

Smart City  
Concepts

## Green and Blue Infrastructure & Rural Resources

- Conservation of  
Mangrove  
Forests- Ramsar
- Ecotourism and  
Rural-cultural  
Tourism

## Sustainable Waste Management-

Promote 3R in  
schools,  
household  
Research  
development  
with UTM  
Pilot composting  
project with  
Local Authority

## Clean Air Environment

Promote low  
emission vehicle,  
low emission  
technologies for  
industry

## Projects/proposals related to LCS

Launched - Iskandar Malaysia Smart City Framework, Nov 2012

Growing interests from Japanese companies to conduct pilots on smart city concepts – Mitsui, Panasonic (Fujisawa Sustainable Smart Town), Nikkei

Launched - Iskandar Malaysia Sustainability Framework



Excellent collaboration between Research + Policy-Maker has led to the preparation of the LCSIMBP, launched at COP18 Doha

## The Way Forward



Quantification from LCS modeling assists **better understanding** on impact of proposed actions, sub-actions and programmes.

Excellent **baseline study, consensus-building and the Low Carbon Society Blueprint for Iskandar Malaysia** will help to develop an **integrated climate resilient, low carbon framework** for a city or region.

Green cities or local carbon cities need to have a **LOW CARBON SOCIETIES mindset/** behaviour and **joint effort** between different professions (planners, architects, engineers and related environmental professions)

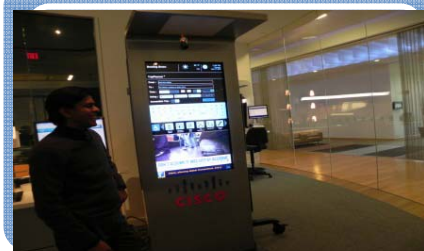
Important to have an Asian and International platform for **research collaboration** between researchers in LCS as well as **capacity-building opportunities**.

## Main Challenges in the implementation >>>>>>>>



### Governance Structure – coordination of policies

- Collaboration of 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

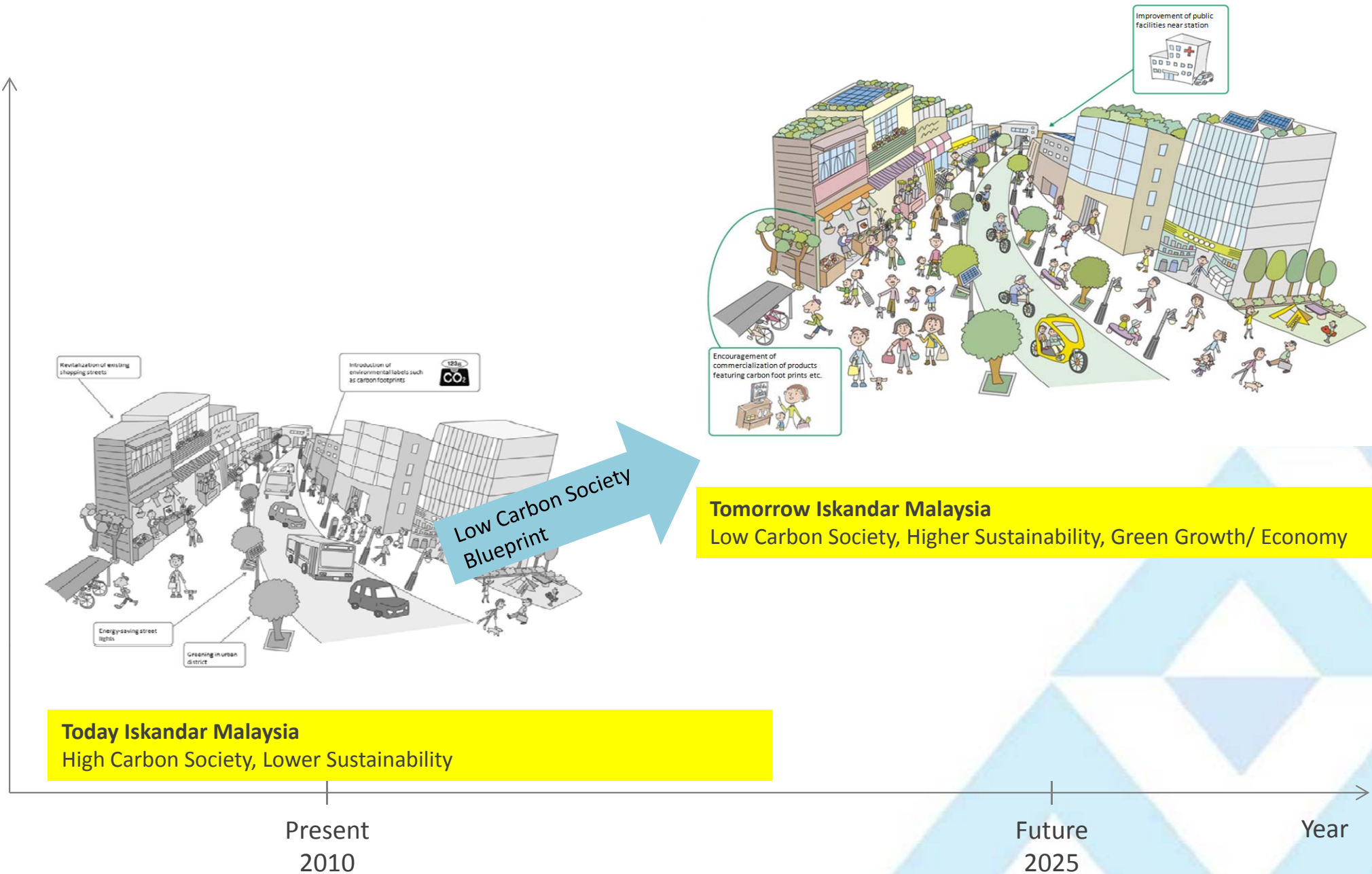


### Visible evidence to create champions of LCS

- In order to ensure public readiness and acceptance for a high sustainability future and low carbon

# Iskandar Malaysia: Today and Tomorrow

Sustainability







# THANK YOU

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Knowledge Platform for Low Carbon  
Development 17 May 2013

