

# East Asia Low Carbon Growth dialogue

- Observer Room 4 at 1830-2000 on Dec 7 2015

## Way Forward

## National Planning and city Actions

## Science to Action of Sustainable Low carbon City-Region - The case of Iskandar Malaysia

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# Background

## Malaysia cities : Key Challenges



Iskandar Malaysia – 1.5 million – 3mil (2020)  
Putrajaya – 100,000 to 350,000 (2025)



Voluntary  
40%  
reduction  
of CO<sub>2</sub>  
emission  
intensity by  
2020

### Issues

- \_ Rapid urbanization and industrialization ( 7%pa)
- \_ Relatively high carbon intensity dependence on fossil fuel
- \_ High private car ownership
- \_ Low density development and urban sprawl
- \_ Low efficiency appliances and Renewabl energy

### Government Policy Directions

- \_ National Green Technology Policy
- \_ National Policy on Climate Change
- \_ National Renewable Energy Policy and Action Plan
- \_ National Policy on the Environment
- \_ 11<sup>th</sup> Malaysia Plan ( 2016-2020)
- \_ Green Neighborhood Planning Guideline
- \_ Low Carbon Cities Framework and Assessment System

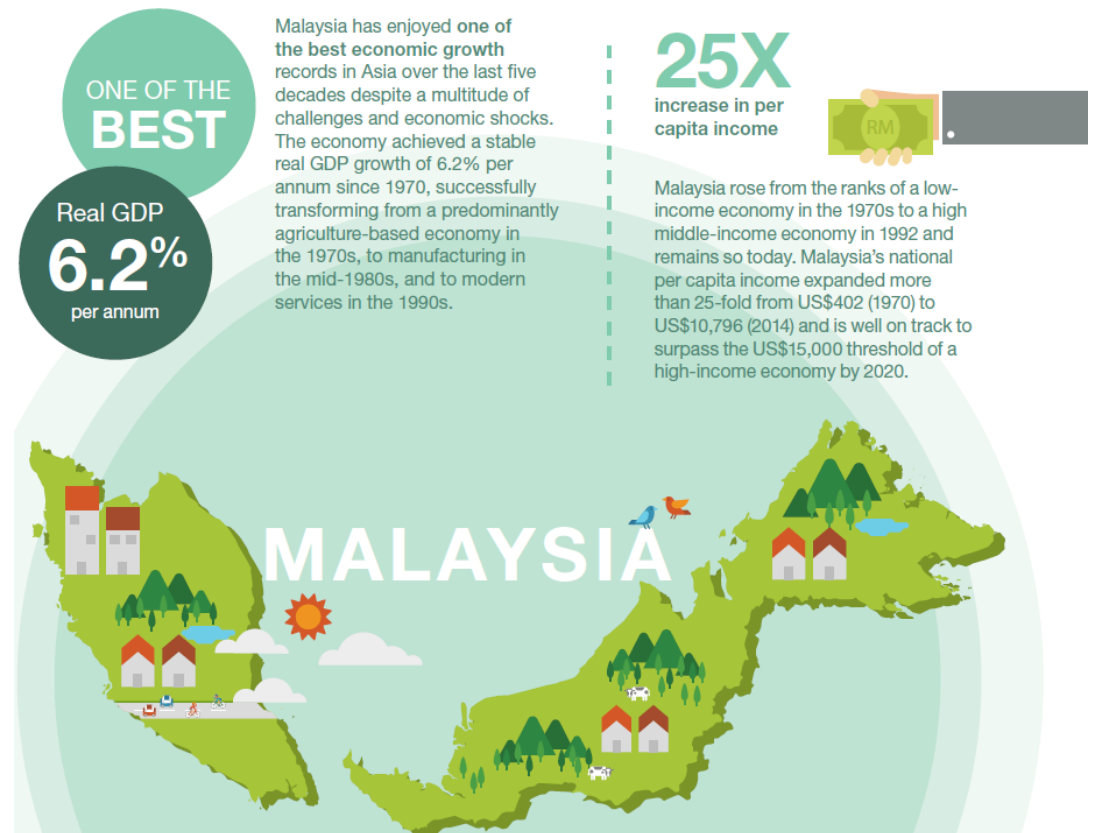
## Malaysia- background

Journey realizing Vision 2020- A fully developed nation along all dimensions – economically, politically , socially, psychologically and culturally by 2020.

Themes related to low carbon development

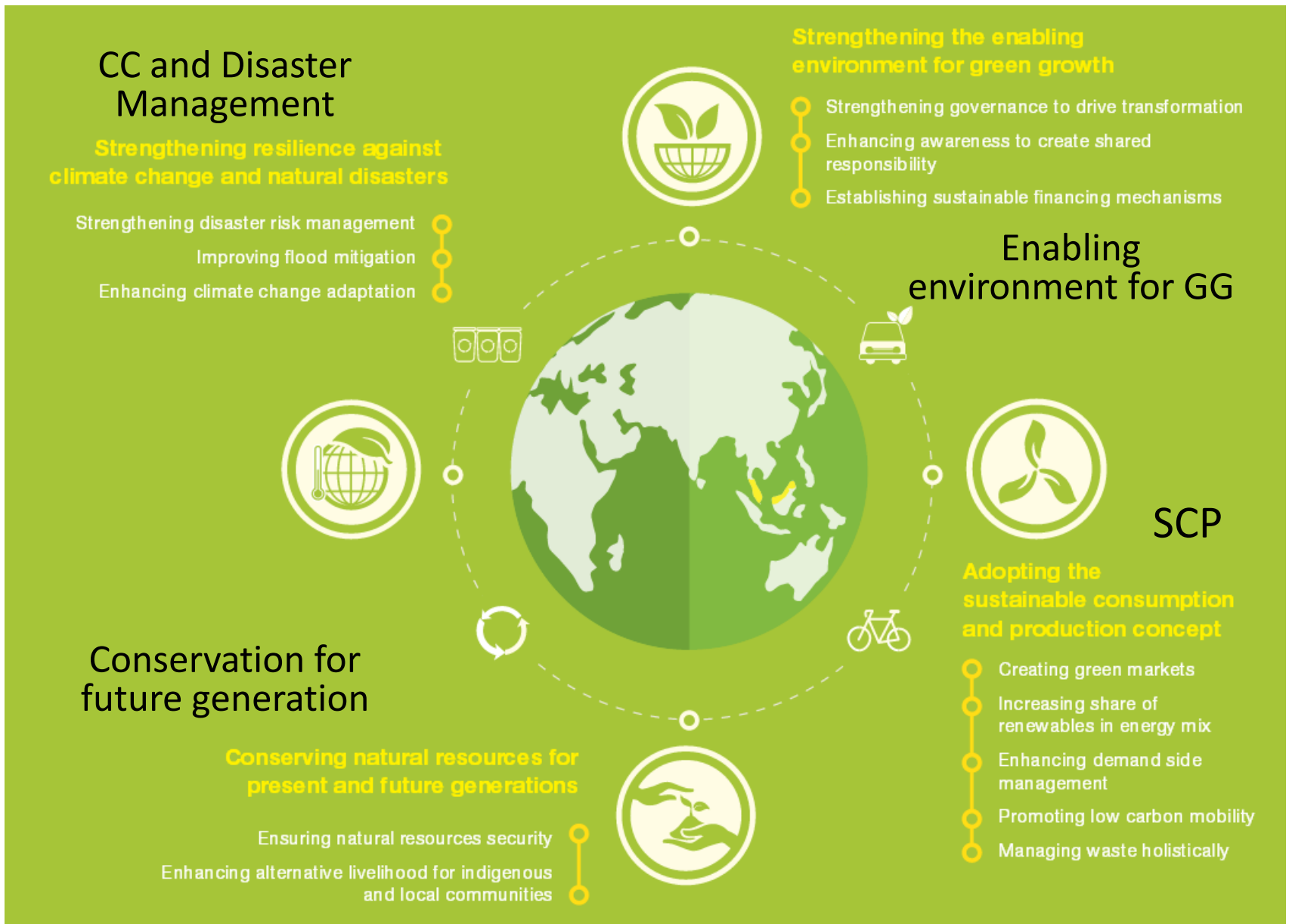
- Digital nation,
- Green growth cities
- Competitive cities
- Promote biodiversity
- Environmental awareness,
- Enable energy plan,
- Inclusiveness,
- Enable energy plan

## In retrospect

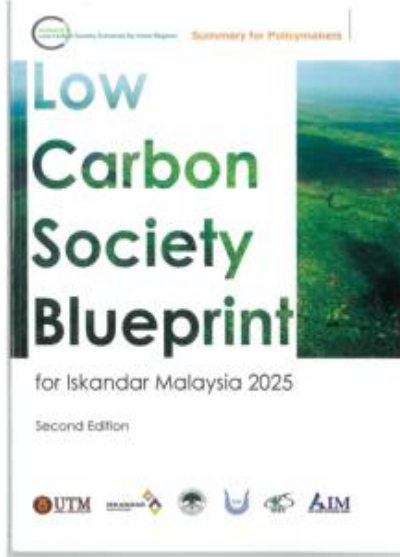


	CO2 emission (‘000metric tons	CO2 per capita metric ton	Carbon intensity Kg / kg oil equiv
1990	56,593	3.1	2.6
2000	216,804	7.7	3.0

# Focus area of green sustainability



# Low Carbon Society Blueprint for Iskandar Malaysia 2025




- The LCSBPIM– a quick reference for all policy-makers in both public and private sectors as well as IRDA;
- 12 Actions grouped in 3 parts namely: (Green Economy), (Green Community), and Green Environment); 281 programmes;
- Each Chapter contains an analysis, list of programmes and the potential GHG emissions reduction;
- IRDA launched its Low Carbon Society Blueprint for Iskandar Malaysia 2025 on 30 November 2012 at the United Nations Climate Change Conference in Doha, Qatar. The ultimate goal is to reduce Iskandar Malaysia's carbon intensity emissions by 50 per cent by 2025.
- The Blueprint was subsequently endorsed by the Prime Minister of Malaysia in December 2012

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



# Low Carbon Society Scenarios for Iskandar Malaysia

## LCS Blueprints for 5 Local Authorities – First Cuts




**The Vibrant Heart of Southern Region**

JOHOR BAHRU CITY COUNCIL **MBJB**

Under SATREPS, the project development of Low Carbon Society Scenario for Asan Region comes with a view to define Low Carbon Society (LCS) vision and crafting a roadmap towards LCS at the national and city-regional levels. Iskandar Malaysia (IM) is targeted to reduce its Carbon Emission by 50% in 2025.


The project is to develop methodology for creating Low Carbon Society (LCS) scenario and apply it in Iskandar as well as to forward the research outputs to IM.

This brochure is produced for Carbon Emission Reduction Disaggregation for 5 Local Authorities in IM including Johor Bahru City Council (MBJB) in the context of Current Socioeconomic Scenario for IM2025 and in line with the vision of IM for Carbon Reduction. Several actions have to be taken accordingly to the current scenario.




**Johor Bahru**

**‘The Vibrant Heart of Southern Region’**




**Livable Community City**

JOHOR BAHRU TENGAH MUNICIPAL COUNCIL **MPJBT**

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**Johor Bahru Tengah**

**‘Livable Community City’**




**Green Manufacturing Hub**

PASIR GUDANG MUNICIPAL COUNCIL **MPPG**

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**Pasir Gudang**

**‘Green Manufacturing Hub’**



**Smart Logistic Hub**

KULAI MUNICIPAL COUNCIL **MPKu**

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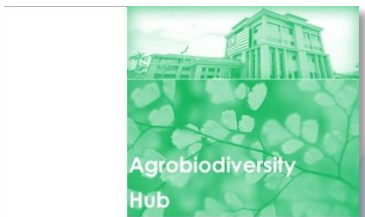
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**Kulai Jaya**

**‘Smart Logistic Hub’**




**Agrobiodiversity Hub**

PONTIAN DISTRICT COUNCIL **MDP**

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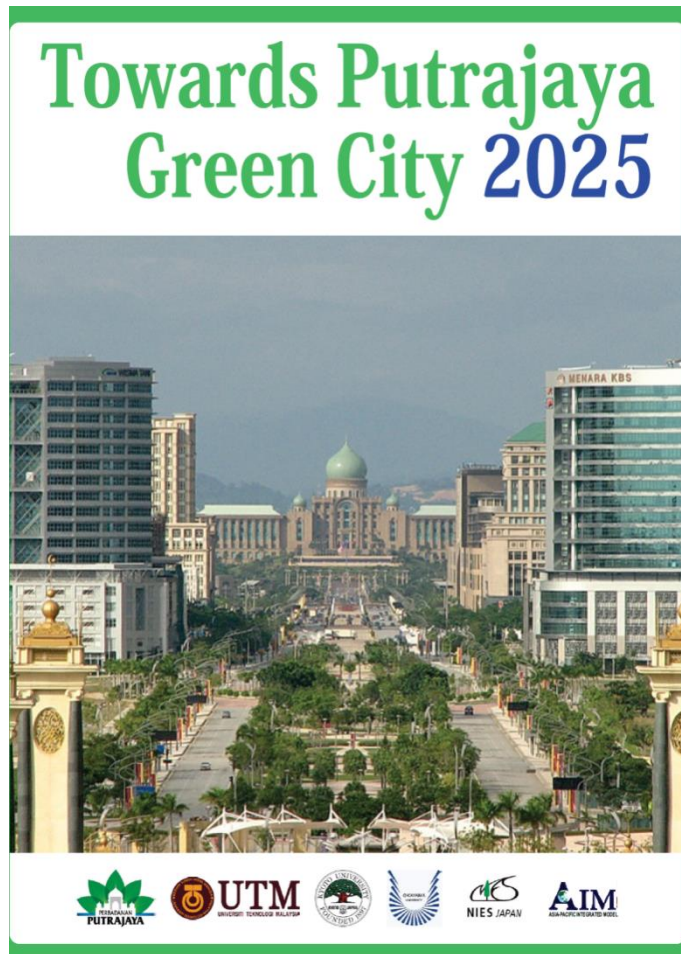
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**Pontian**

**‘Agrobiodiversity Hub’**

# Putrajaya Low carbon city



## GREEN CITY INITIATIVES

- |               |   |
|---------------|---|
| Focus Area 1: | Planning, Urban Design & Building       |
| Focus Area 2: | Integrated Nature Into The Urban Fabric |
| Focus Area 3: | Transportation & Mobility               |
| Focus Area 4: | Energy Usage                            |
| Focus Area 5: | Water Usage                             |
| Focus Area 6: | Solid Waste Management                  |
| Focus Area 7: | City Administration & Management        |

## INVENTORY OF PUTRAJAYA GREENHOUSE GAS EMISSIONS 2012

### Inventory Result

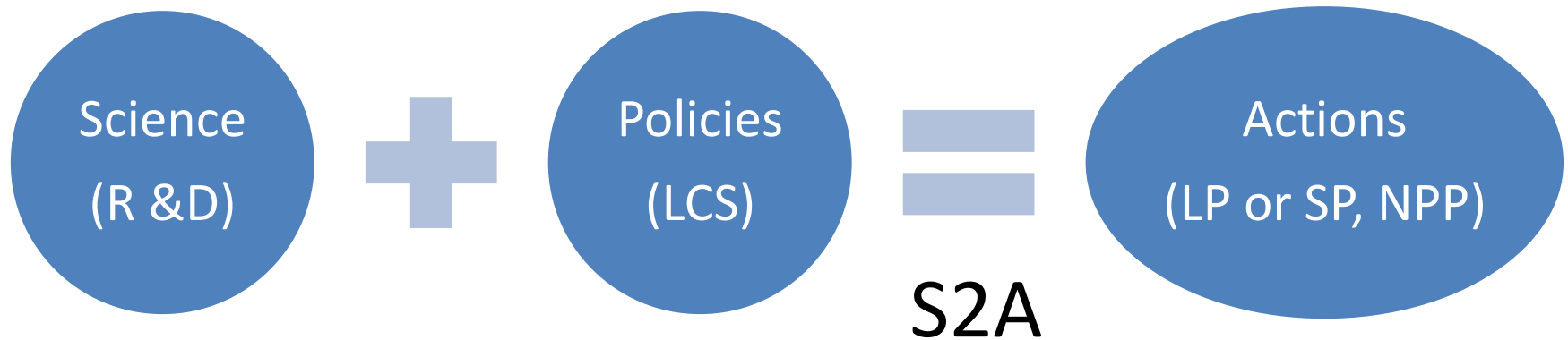
Carbon Emissions from Building Sector

Carbon Emissions from Transportation Sector

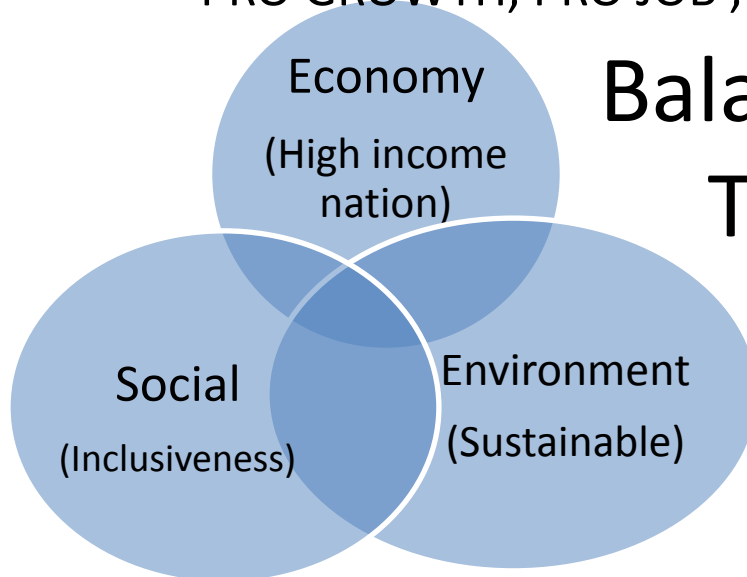
Carbon Emissions from Waste Sector

Conclusion

# Sustainable development approach/ Climate Actions

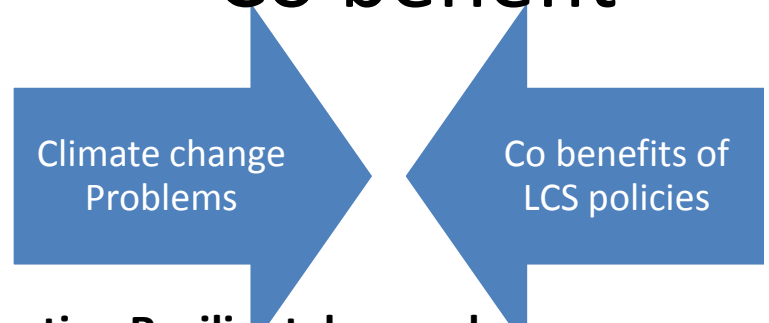


Key element Sustainable development  
= PRO GROWTH, PRO JOB , PRO POOR and PRO ENVIRONMENT



**Balanced  
TBL**

**Co benefit**



**Promoting Resilient, low carbon, resource  
efficient and socially inclusive development**



# (The importance of Implementation and Monitoring)

