



COP21-CMP11
PARIS 2015
195th CLIMATE CHANGE CONFERENCE



❖ Date: 7 December 2015(Mon)Time: 12:15pm – 13:00pm Venue: Japan Pavilion

Lessons from Asia Low Carbon Cities: Initiatives in Iskandar Malaysia Economic Region and Putrajaya

By National Institute for Environmental Studies (NIES) &
University of Technology Malaysia (UTM)

We share our advanced lessons from Asian cities such as Iskandar Malaysia region, Putrajaya city in collaboration with AIM research team, Japanese cities/environment organizations, central governments, other stakeholders. This is typical input into Solution Agenda launched by France Government for COP21.

Time	Agenda	Chairperson: Dr. Junichi Fujino, National Institute for Environmental Studies, Japan
12: 15	Introduction Prof. Ho Chin Siong, Professor, Universiti Teknologi Malaysia (UTM)	
12:20 – 12:30	Low Carbon Society Action Plan for 2025 in 5 Local Authorities in Iskandar Malaysia Y.A.B. Dato’ Dr Mohamed Khaled Bin Nordin, Menteri Besar (Chief Minister) Johor State, Malaysia	
12:30 – 12:40	Implementation of Green Technology Policy in Malaysia Y. Bhg. Datuk Loo Took Gee, Secretary General, Ministry of Energy, Green Technology and Water Malaysia (KeTTHA)	
12:40 – 12:50	Putrajaya Building Sector Carbon Emissions Monitoring & Reporting Program & PGC2025 updates Datuk Haji Hasim Bin Haji Ismail, President of Putrajaya Corporation (PJC)	
12:50 –1pm	Discussion	
13:00	Adjourn	

This research is supported by SATREPS (JICA/JST) and MoEJ.

Background

Malaysia cities : Key Challenges



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



Voluntary
 40%
 reduction
 of CO₂
 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
- _ 11th Malaysia Plan (2016-2020)
- _ Green Neighborhood Planning Guideline
- _ Low Carbon Cities Framework and Assessment System

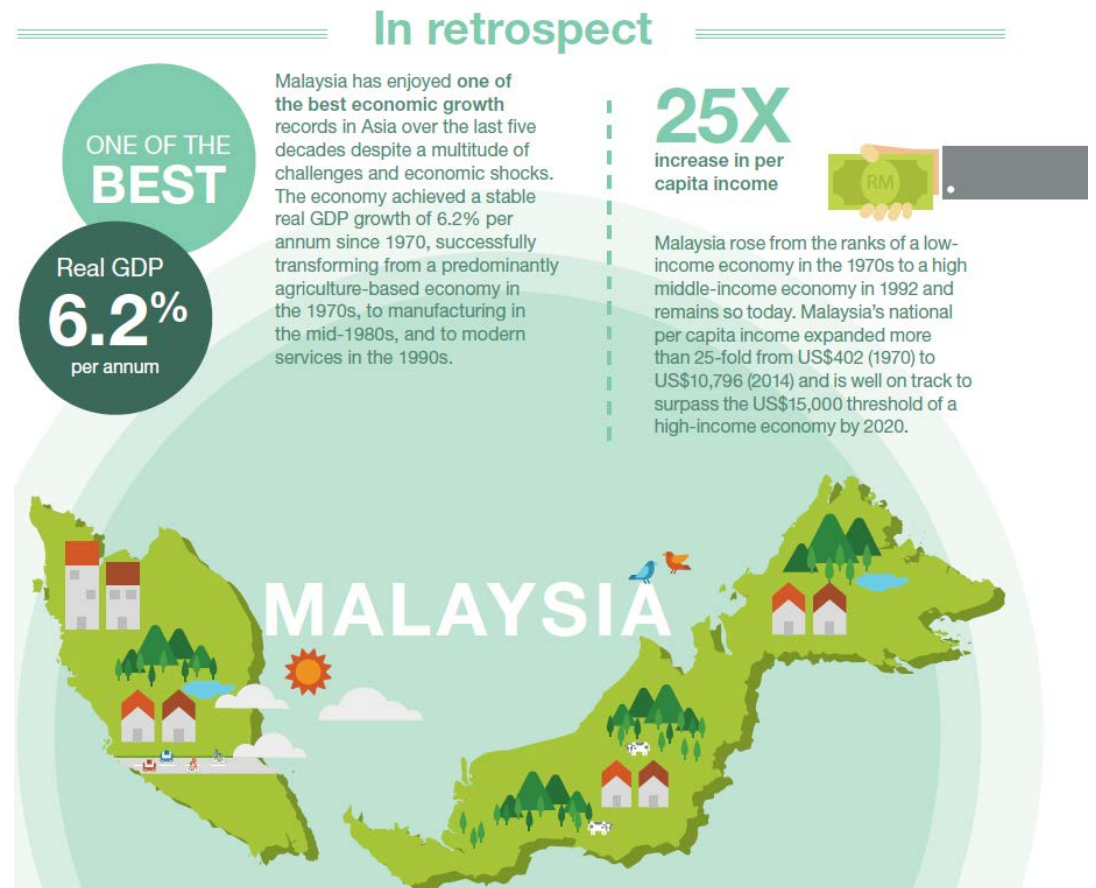
Malaysia- background

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

	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



Vision 2020

The next five years

The Eleventh Plan is formulated with the rakyat as the centrepiece of all development efforts. The people economy will be given priority,

reinforcing the Government's commitment to bring further development to the people by enriching their lives, providing people with dignity, and uplifting their potential to partake in the country's prosperity that is generated. All segments of society must benefit from the country's economic prosperity in order to create an advanced economy and inclusive nation by 2020. In line with this, for the first time in Malaysia's history, national growth targets will include not only GDP growth and per capita income, but also household income and the Malaysian Wellbeing Index to assess the impact of economic growth on people's wellbeing.

Average national income

The Government aspires for Malaysia to achieve an advanced economy status by 2020, with a national per capita income of

MORE THAN

US\$15,000

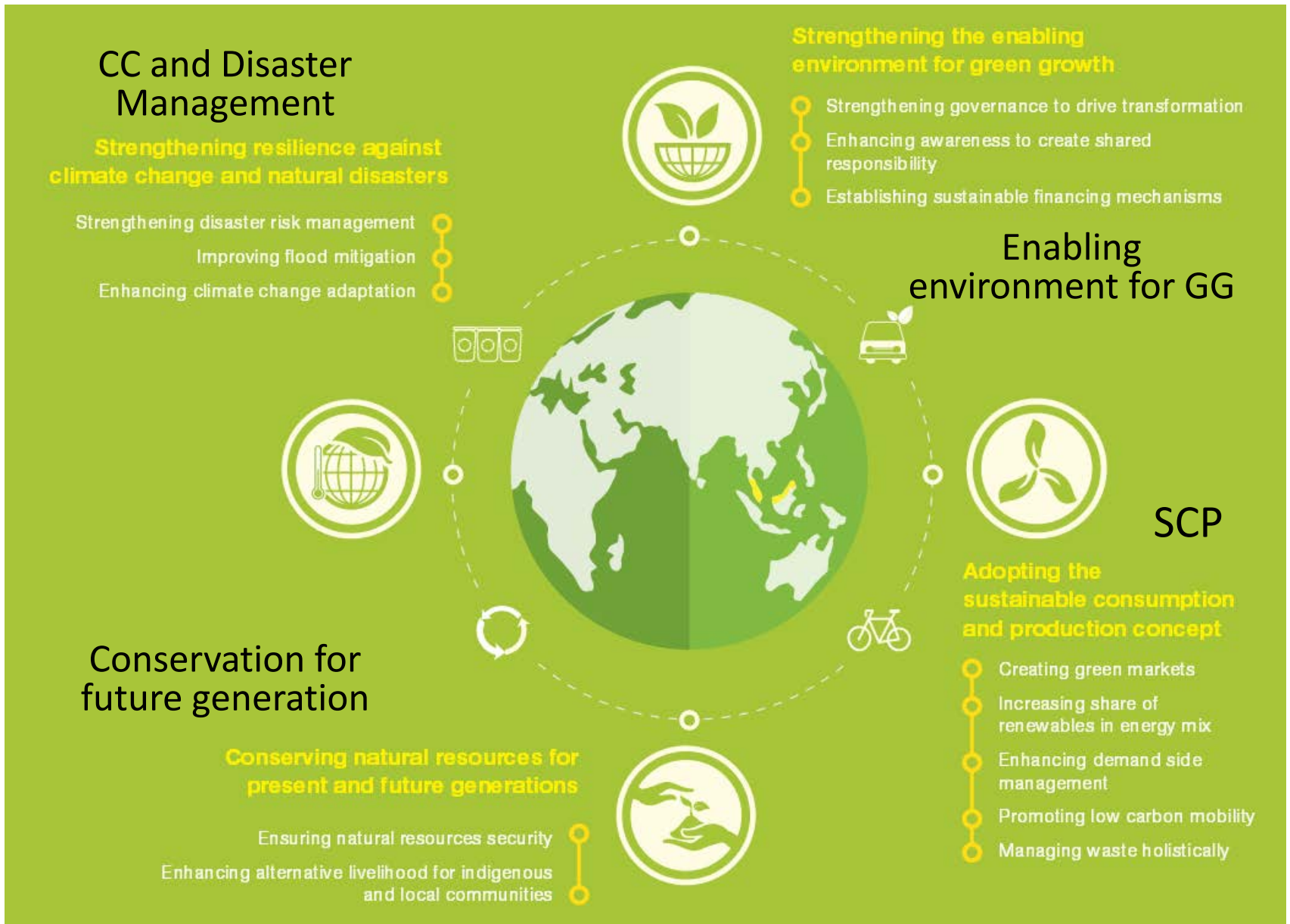
While there will still be people who earn less than this threshold, all segments of society, irrespective of geography, ethnicity, or income level, are expected to experience an increase in their income and wellbeing.

Every household will have access to efficient infrastructure and public amenities, quality healthcare and education, quality and affordable housing, and comprehensive support services.

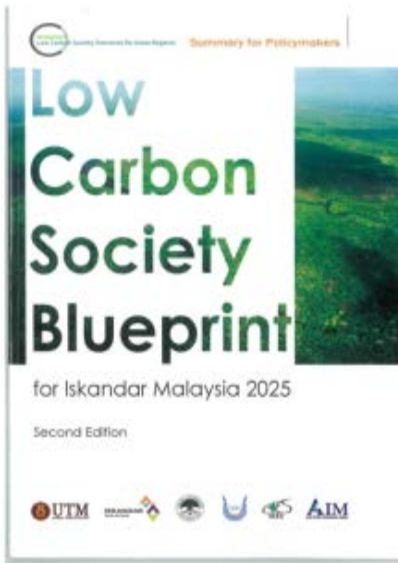
The goal is nothing less than a better quality of life for all Malaysians.



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 MBBJ

Under SATREPS, the present development of Low Carbon Society Scenario for Asian 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 2020.

The project is to develop methodology for creating Low Carbon Society (LCS) scenarios 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 MBBJ 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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Kulai Jaya

‘Smart Logistic Hub’

Agrobiodiversity Hub

PONTIAN DISTRICT COUNCIL MDP

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Pontian

‘Agrobiodiversity Hub’

Malaysia Green Technology Policy

NATIONAL GREEN TECHNOLOGY POLICY



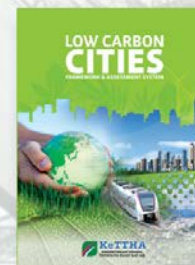
POLICY STATEMENT

Green Technology shall be a driver to accelerate the national economy and promote sustainable development.



“Green Technology is the development and application of products, equipment and systems use to converse the natural environment and resources which minimise and reduces the negative impact of human activities..”

LOW CARBON CITIES FRAMEWORK (LCCF)



Low Energy Office LEO

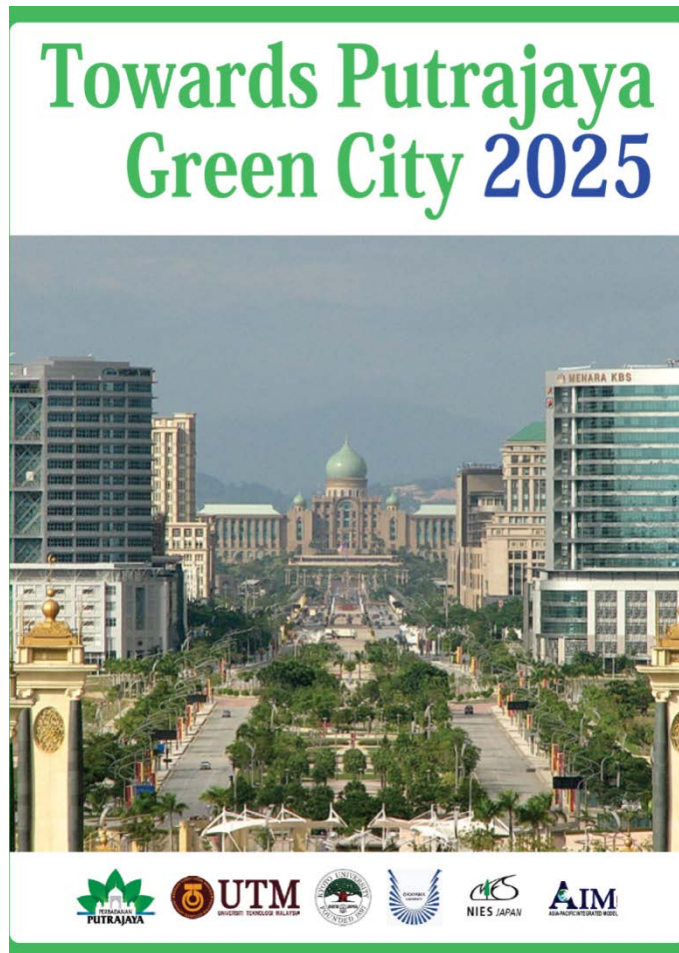


Green Energy Office GEO



Diamond Building

Putrajaya Low carbon city



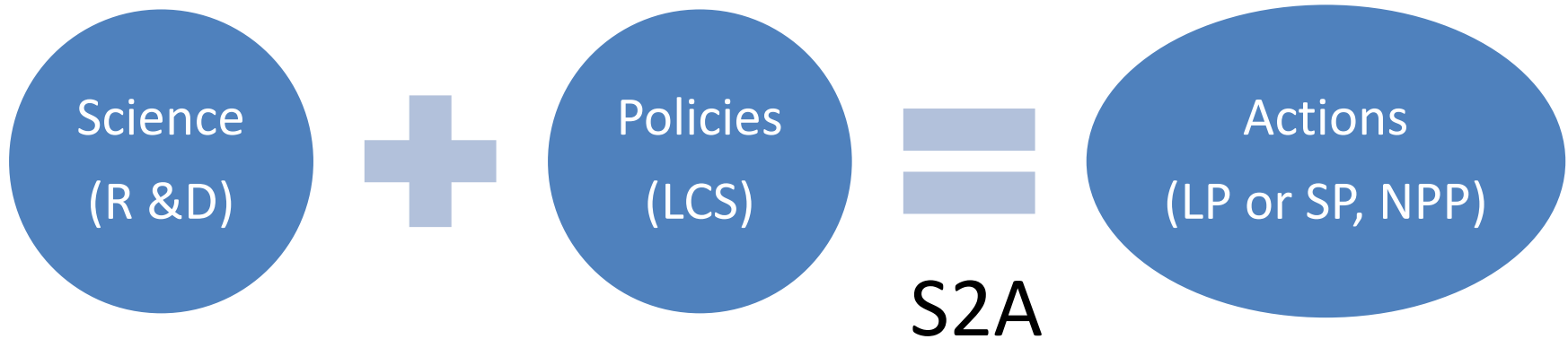
GREEN CITY INITIATIVES

- 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

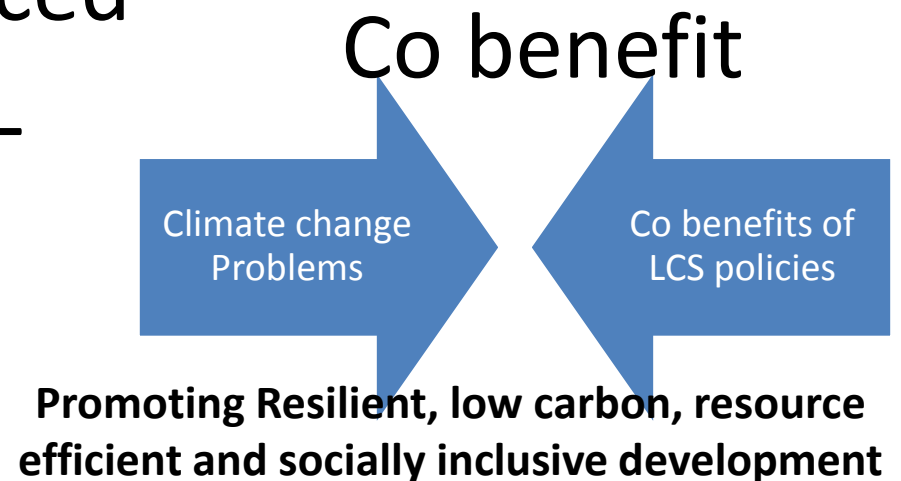
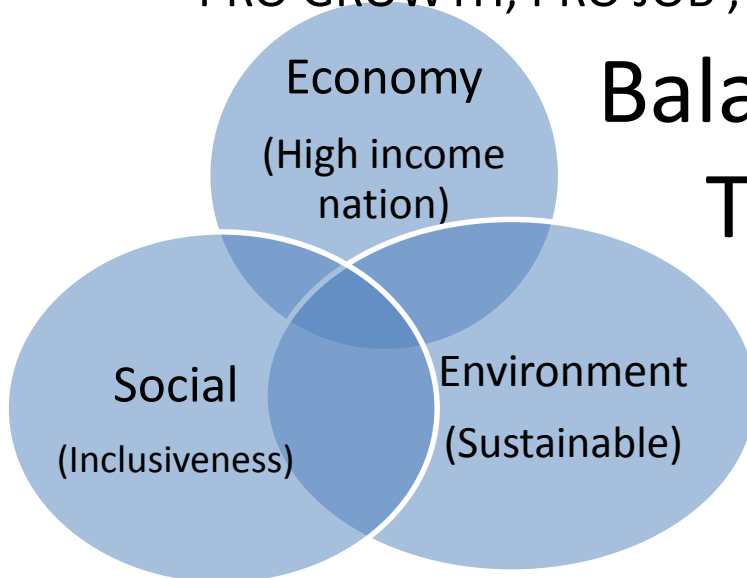
INVENTORY OF PUTRAJAYA GREENHOUSE GAS EMISSIONS 2012

- Inventory Result
 - Carbon Emissions from Building Sector
 - Carbon Emissions from Transportation Sector
 - Carbon Emissions from Waste Sector
- Conclusion

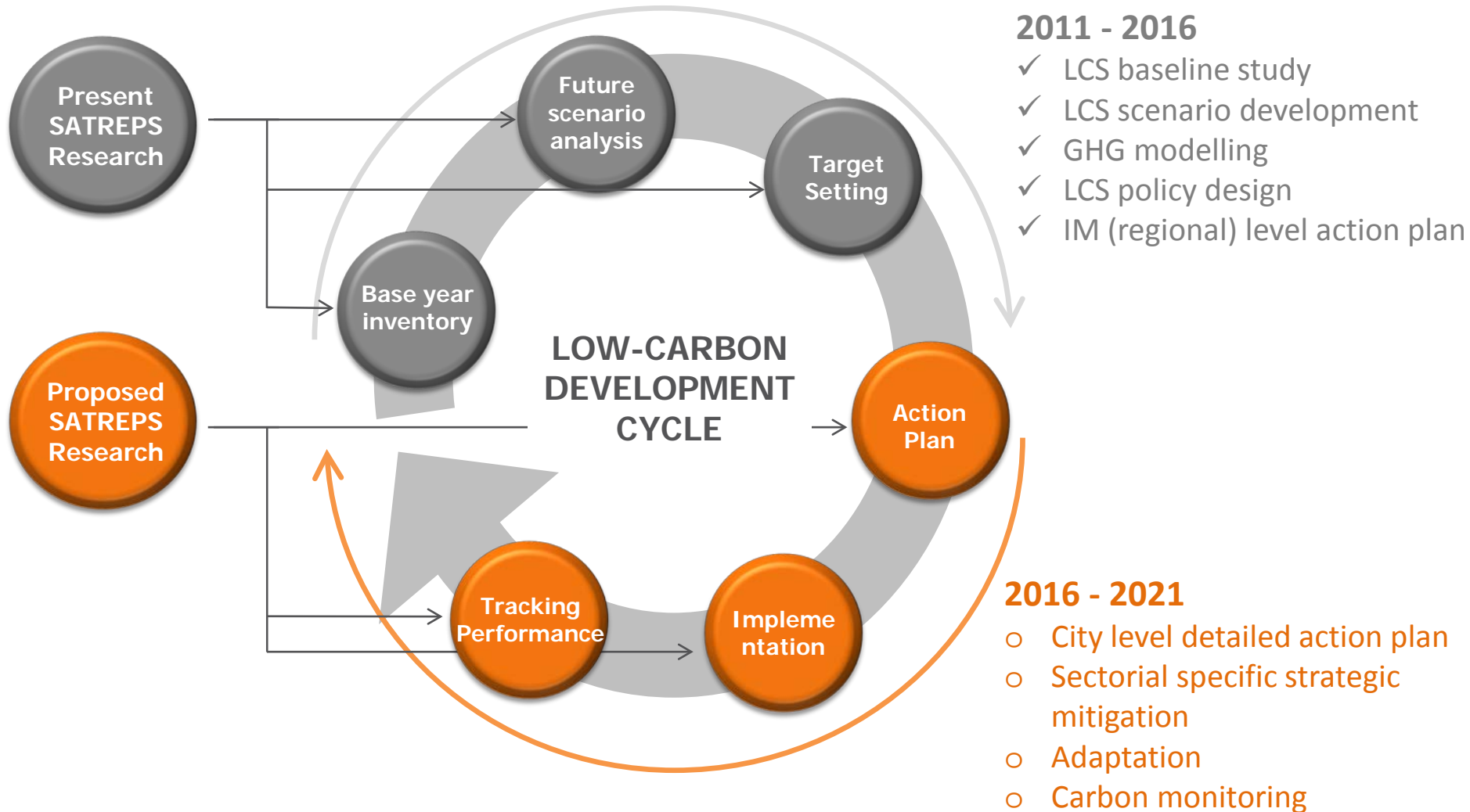
Sustainable development approach/ Climate Actions



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



(The importance of Implementation and Monitoring)





Thank You Terima Kasih 谢谢 धन्यवाद ありがとう

Thank you for your attention!

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