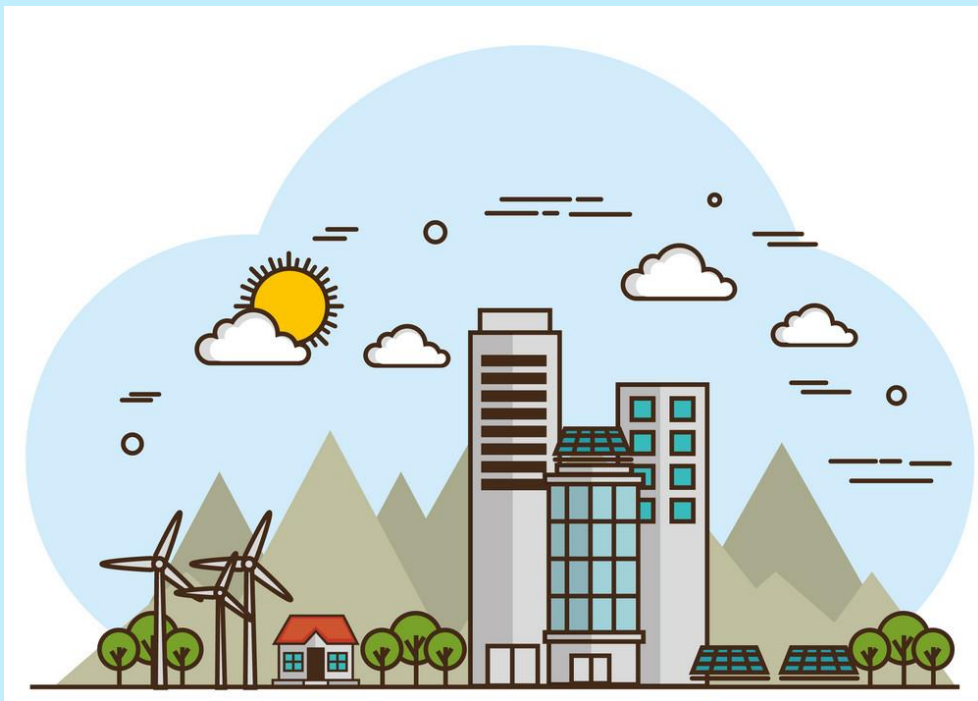


Thailand National Policies and Approaches to Environmentally Friendly Urban Development



Dr. Mathya Raksasataya

**Environmental Official, Senior Professional Level
Office of Natural Resources and Environmental Policy
and Planning (ONEP), Ministry of Natural Resources
and Environment (MONRE)**

The Lancang-Mekong Roundtable Dialogue on Sustainable Infrastructure

17-19 October 2018, Beijing, China

Thailand's Vision: Stability, Prosperity and Sustainability

Developed Country with the Philosophy of Sufficiency Economy

Thailand's 20-Years National Strategy



Goal 6 Clean Water and Sanitation	Goal 11 Sustainable Cities and Communities	Goal 12 Responsible Consumption Production
Goal 13 Climate Action	Goal 14 Life Below Water	Goal 15 Life on Land

Moving Towards Sustainable Development: Policies and Plans at the National Level

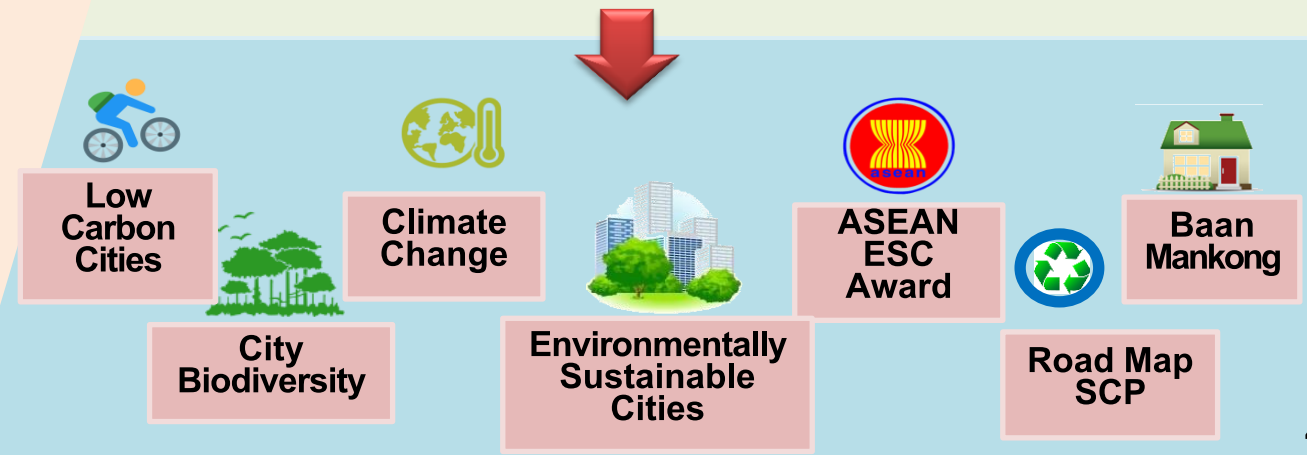
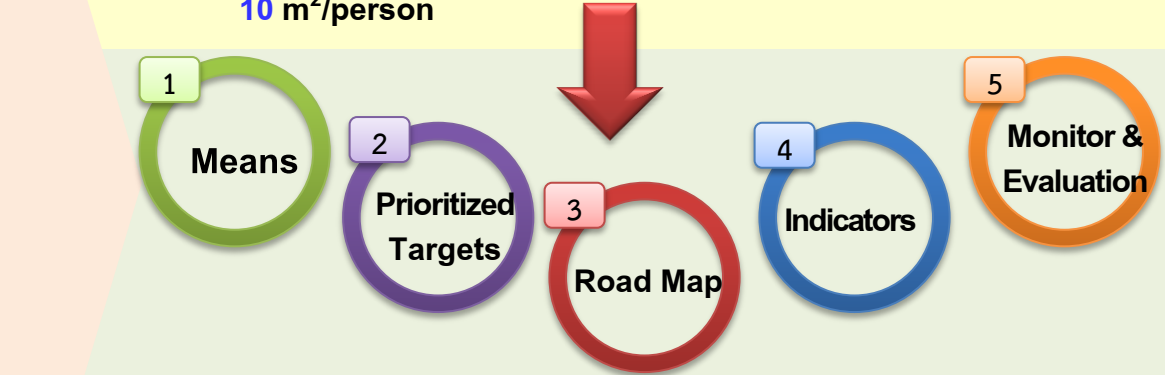




New Urban Agenda

- 📍 City For All
- 📍 Poverty Eradication
- 📍 People-Centered Approach
- 📍 Culture & Cultural Diversity
- 📍 Sustainable Consumption & Production Patterns & Resilience
- 📍 Public Service Accessibility & Impartiality
- 📍 Reducing Inequalities
- 📍 Adequate Housing
- 📍 International Cooperation
- 📍 Emerging Urban Development Challenges

SDGs to Environmental Quality Management Plan 2017 - 2021



National Strategy 20 years (2018 - 2037): Strategic Priority 5

5.1 build sustainable development on green social economics

5.5 develop environmentally - friendly energy security, and agriculture

5.3 build sustainable climate-friendly development

5.6 initiate new paradigm thinking for the future of the country

5.2 build sustainable development on sea-based social economics

5.4 develop urban, rural, agricultural areas and ecological industry, towards sustainable city

Aspects of Economics and Ecological Balance



Thailand 4.0

- A Driving Model for security, prosperity and sustainability, based on the Sufficiency Economy Philosophy.
- Shifting to Valued-Based Economy or Economy driven by innovation, technology, initiatives, trade and services.
- Key Success Factor: People



agriculture



light industry

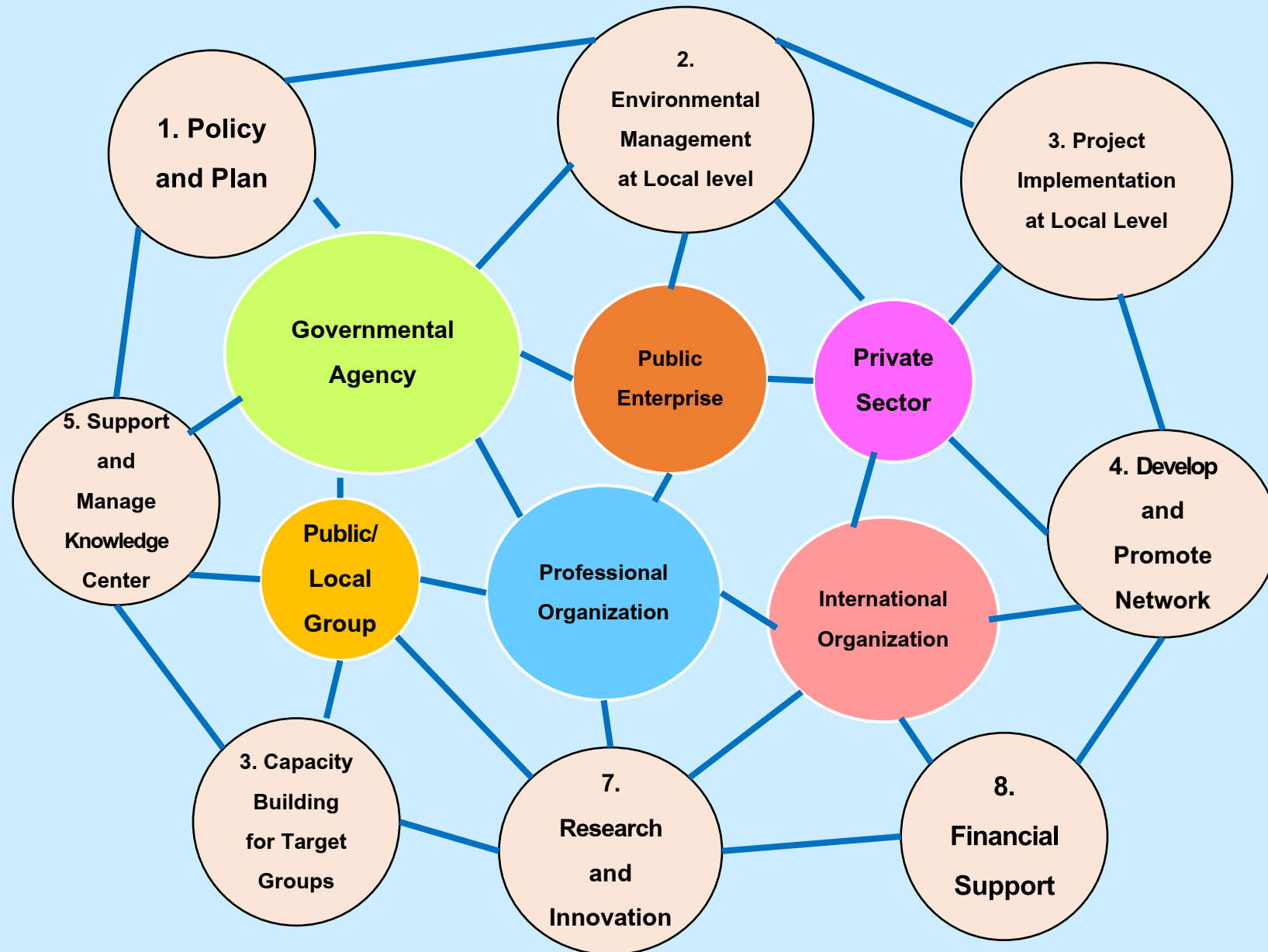


heavy industry



<https://www.youtube.com/watch?v=PmXLFq5SVI>

Roles and Activities of Governmental and Non Governmental Sectors



Source: ONEP (2017). Adapted from a holistic promotion scheme for sustainable city networking, The Sustainable Development of City and Community Project.

Ecologically Friendly Urban Infrastructure in Thailand's Context

Smart city



Accessibility, Convenience, Safety
Efficiency, Transportation and
Logistics Management
Sharing and Green Mobility

Smart
Mobility

Smart
Economy

Government Services Accessibility
Business connectivity
Business Innovation and Transformation

Smart
Living

Healthy People
Public Safety
Intelligent Living Facilities

Smart
People

Knowledge and Digital Citizen
Creative and Life Long
Learning Environment
Inclusive Society

Smart
Governance

Government Services Accessibility
Citizen Participation
Transparency

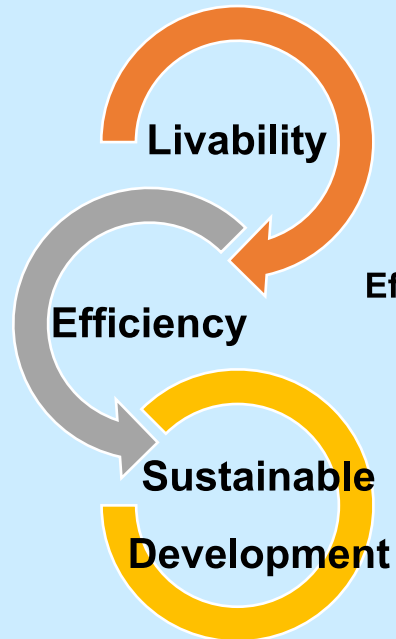
Smart
Environment

Effective Waste Management
Environment Monitoring
Green Area Green Space

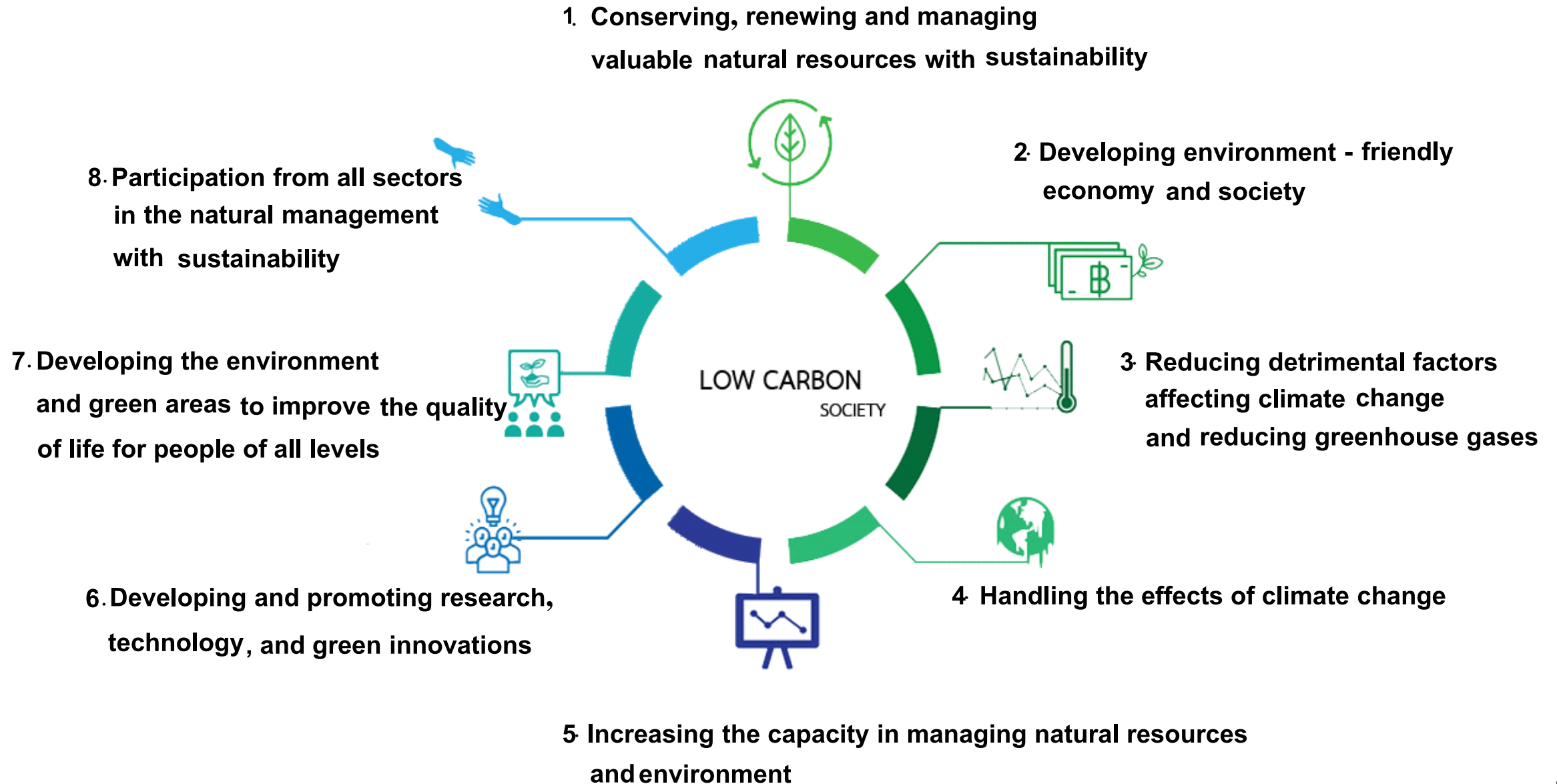
Smart
Energy

Efficiency Energy Consumption
Alternative Green Energy

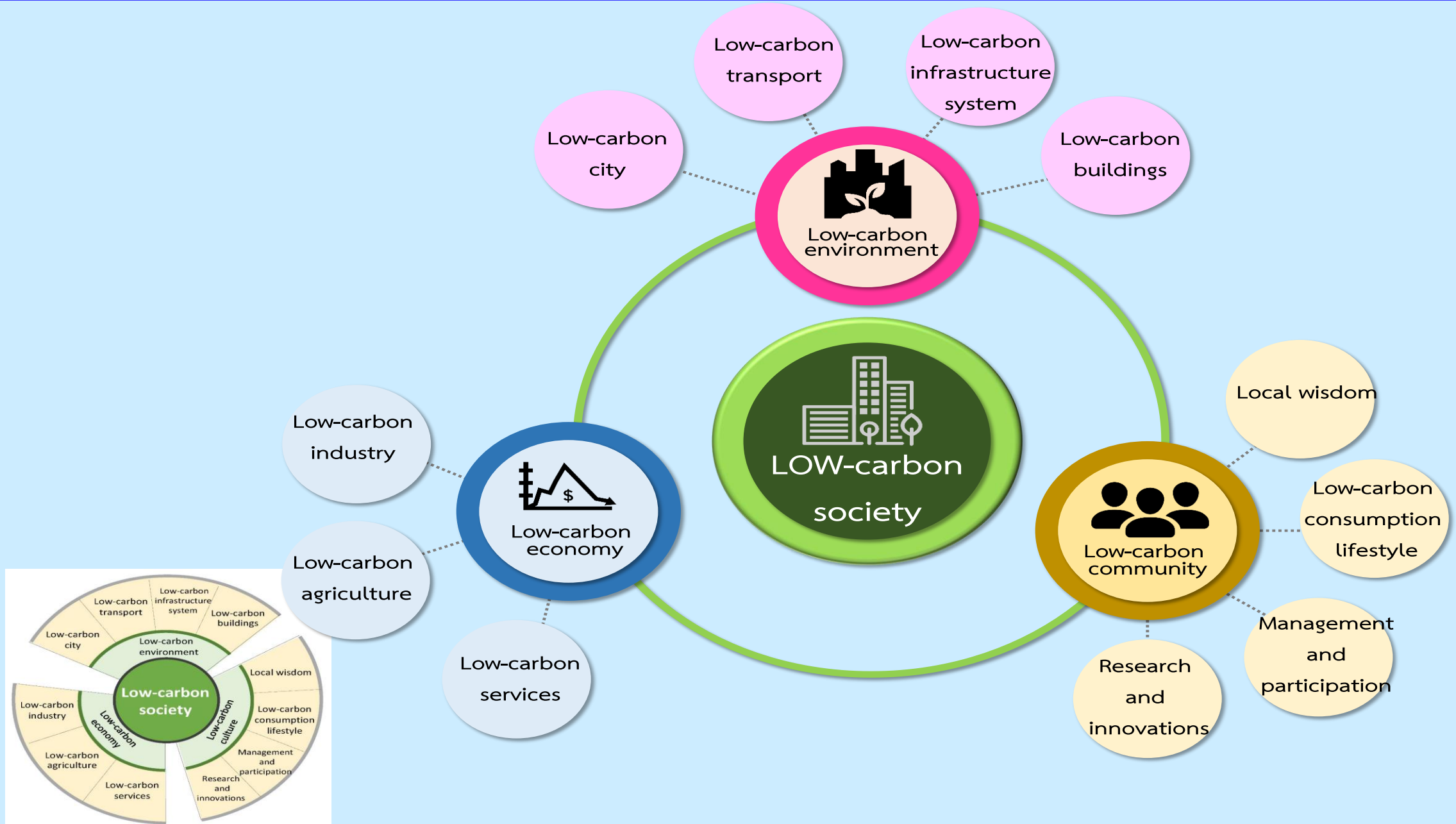
SMART
CITY



Low-Carbon Society



Major Dimensions and Components for the Development of Low-Carbon Society



Ecologically Friendly Urban Infrastructure in Thailand's Context

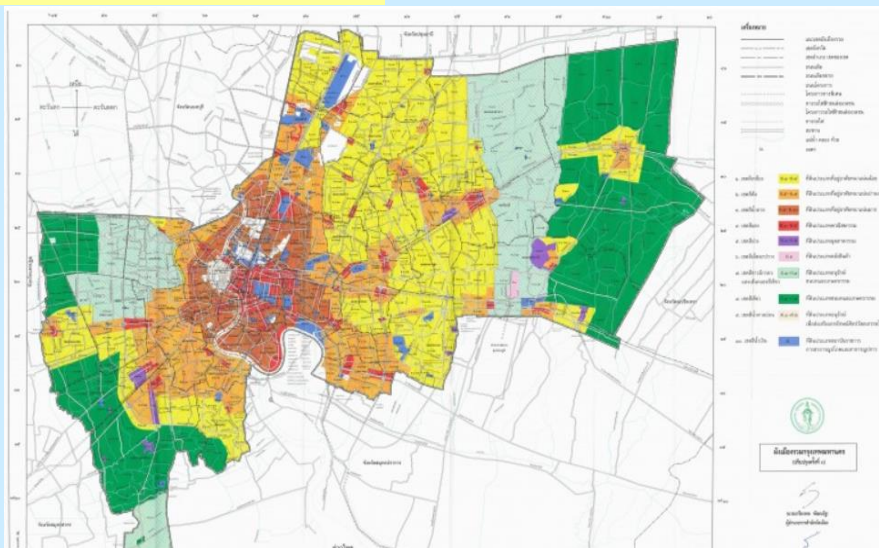
Bangsue Railway Station & Surrounding Open Space



The EmQuartier Shopping Complex



Bangkok City Master Plan



Playground at Suan Luang Rama IX Public Park



Ecologically Friendly Urban Infrastructure in Thailand's Context

Henri Dunant Road



Pathumwananuruk Public Park



Bike Lane at Suvarnabhumi International Airport



Sanam Luang: Bangkok City Center



Ecologically Friendly Urban Infrastructure in Thailand's Context

PhuKet Smart City

Phuket 10 Years Master Plan



Alternative electricity supply



Transportation



Smart lighting



Transit-Oriented Development: TOD



Smart safety



A photograph showing a dense line of tall coconut palm trees along a sandy beach. The trees are very tall and slender, with their fronds reaching towards a clear blue sky. The ocean is in the foreground, showing deep blue water with some whitecaps. The beach is a thin strip of sand between the water and the trees.

Cycling Way Map

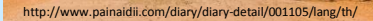
Low carbon touch point

Koh Mak In Love

- 1 CoCo Cafe
- 2 Ao Kao Harmony Farm
- 3 Beach Club
- 4 Sunset view point
- 5 Panorama view point
- 6 Koh Mak's Museum
- 7 Temple & View point

Shopping Route

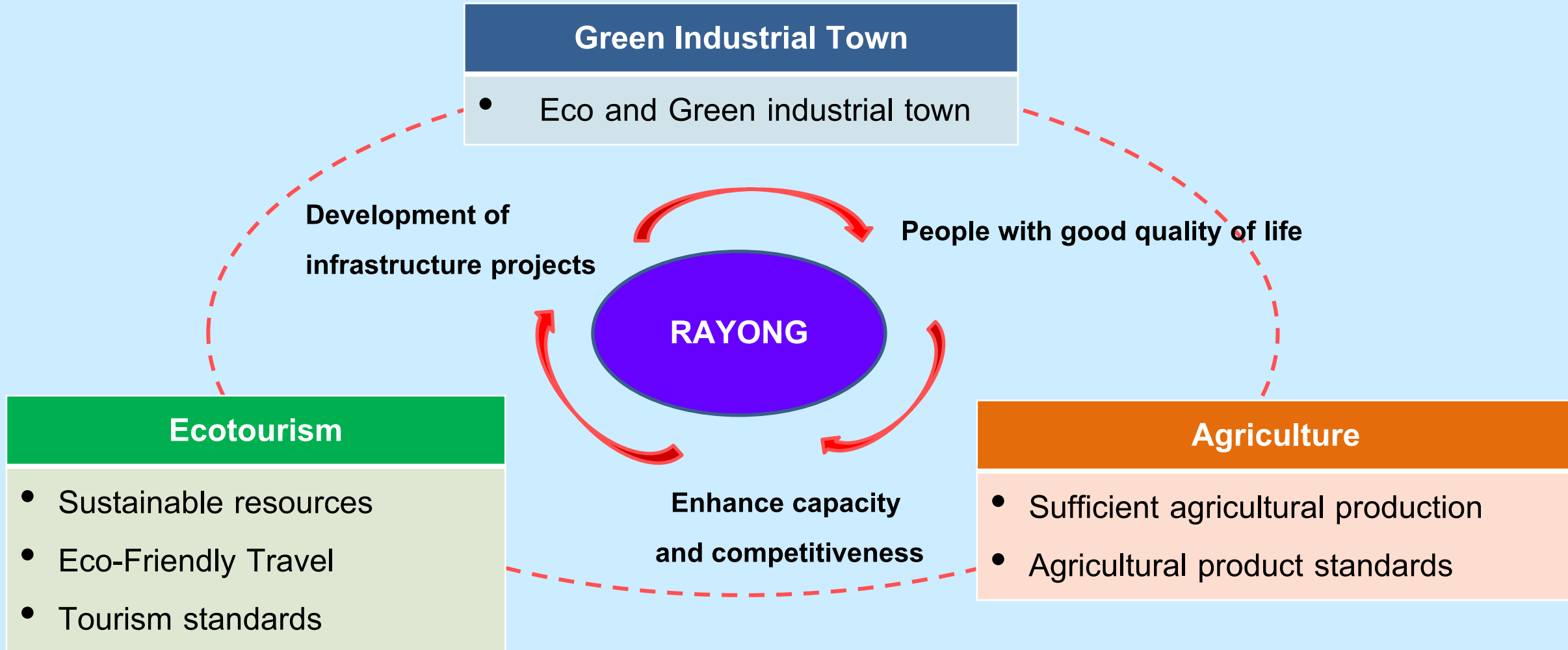
- 1 CoCo Cafe
- 2 Beaches & Pier Islands view
- 3 Koh Kham over view point
- 4 Beach Sailing, Surfing
- 5 Paradise



14

Rayong Province's Development Plan 2017-2020

“Green Industry, Ecotourism and Agriculture”



Eco-city: Muangklang Municipality in Rayong Province

Muangklang's Transportation System



<https://www.muangklang.com/vichakan/ReportPublicCarJune55/ReportPublicCarJune55.html>



Photography by Tay Pix

Open Space...Green Space...Space for Everyone



Main Natural Water Resource: Prasae River



การเดินทางทางน้ำ



จากกิจกรรมทางน้ำ

งานปลูกป่า

งานประเพณี

งานท่องเที่ยวทางน้ำ

"ภูจักรักษ์" พิพิธภัณฑ์

Ecologically Friendly Urban Infrastructure in Thailand's Context

Krabi Municipality



Krabi Ferry Pier



Urban Road



Public Park



Ecologically Friendly Urban Infrastructure in Thailand's Context

Modern-Trade Retailer: Tesco Lotus (Zero Carbon Store)



Biogas system



Solar farm

Lessons Learnt and Challenges

for Environmentally Friendly Urban Development

Key Success Factors:

- Willingness and needs of the urban residents drive the urban development
- Public participation creates a sense of ownership and mutual understanding and acceptance.
- Ecological landscape and context of the city must be observed.
- Knowledge, technology, and innovation are vital tools.
- Strategic master plan and implementation must be clear-cut and based on data.



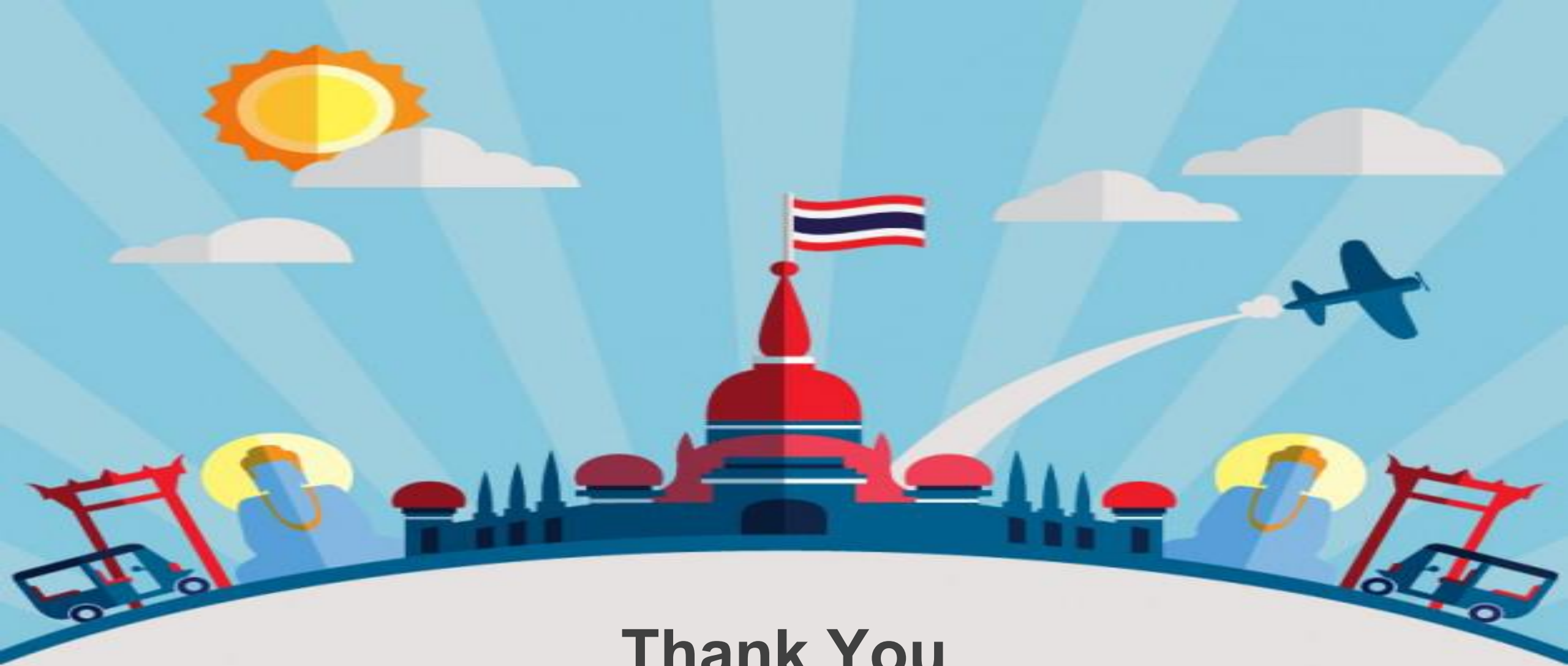
Challenges:

- Knowledge sharing to create public awareness and participation must be done continuously throughout the development process.
- Fairness and opportunity for general people especially those reside in the target area are of utmost importance.
- Networking is essential for development success.
- Mechanism at the national, regional and local levels are needed to drive the development
- Data management/ Big data management needs a range of resources, especially trained personnel.

Collaboration Between China and Thailand to Move Forward to Environmentally Friendly Urban Development

- **Cooperation and Assistance: Knowledge and technology exchange**
- **Thailand's Strength: Public and community participation and local wisdom**





Thank You