



DANANG PEOPLE'S COMMITTEE
Da nang Department of Natural Resources and Environment



BUILDING DA NANG - AN ENVIRONMENTAL CITY

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Building Da Nang - An environmental city

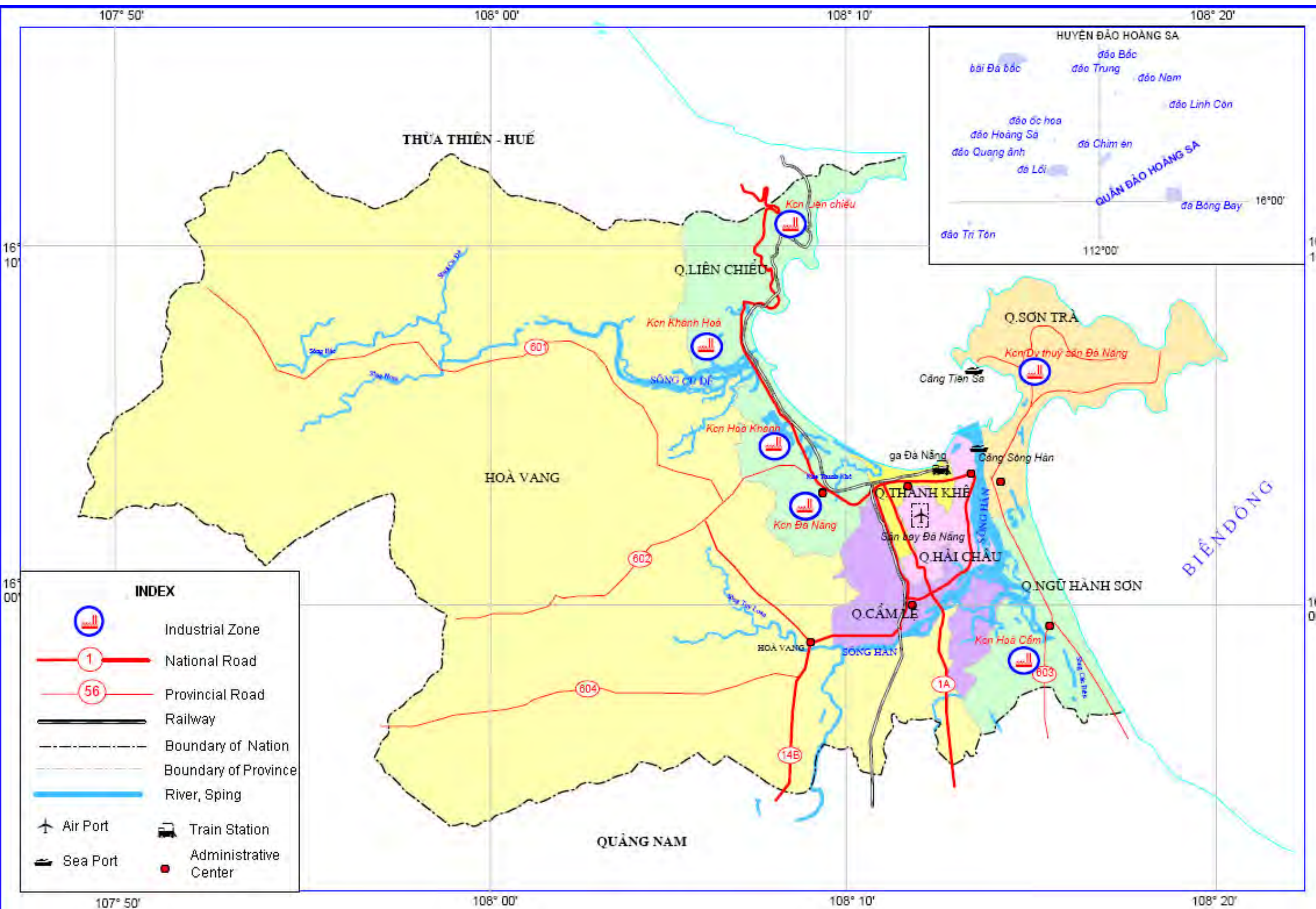
- Overview of Da Nang city
- The project building Da Nang - An Environmental City (period 2021-2030)

Da Nang city – Yokohama city (city to city collaboration)

- Framework of cooperation between Da Nang city and Yokohama city
- Specific Projects



OVERVIEW OF DANANG CITY



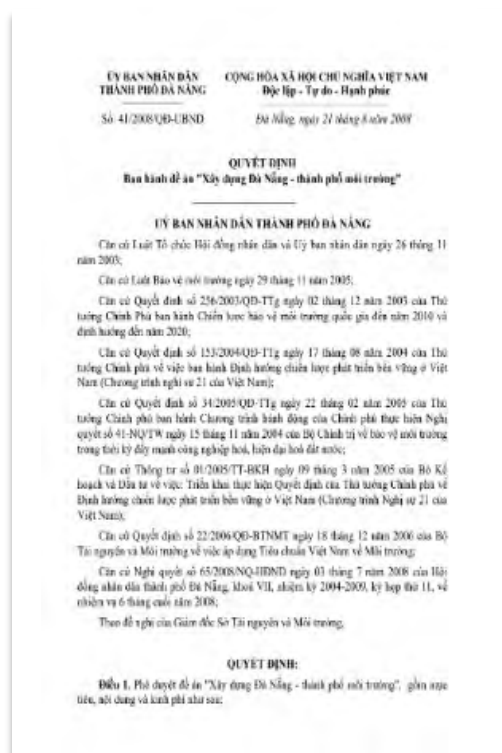
Region	South Central Coast
Area	1285 km ²
Population	1.157 million (approx.)
Climate	Tropical monsoon climate
Administrative functional areas	07 inland districts 01 island district (Hoang Sa)

BUILDING DANANG - AN ENVIRONMENTAL CITY (PERIOD 2021-2030)



HIGHLIGHTS:

2008



*Decision 41/2008
Environment City*

2011



*ASEAN
Environmental
Sustainable City*

2012



*APEC Low
Carbon City*

2013



*Asian Scenic
City*

2015



*Excellence in
Transformation
Viet Nam
Environment Award*

2018



*National
GREEN City*

● BUILDING DANANG - AN ENVIRONMENTAL CITY (PERIOD 2021-2030)



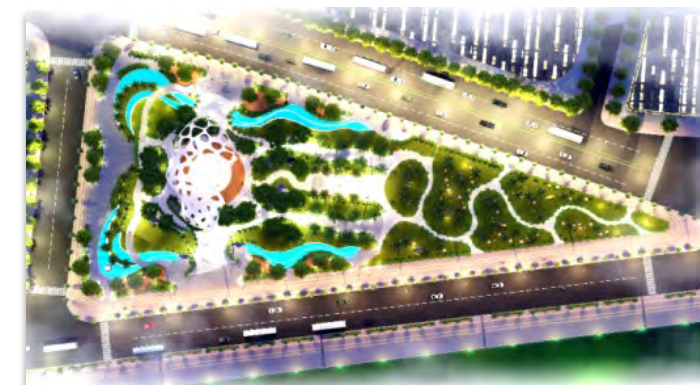
OBJECTIVES:

- Until 2025, to achieve the set targets, until 2030 to transform towards an ecological city;
- Maintain safety for health and environment.

- Make efficient use of natural resources;
- Response actively to climate change;
- Build a smart management system of natural resources.

- Prevent and control of pollution;
- Pay attention to controlling pollution caused by transportation, industrial activities and hazardous wastes.

- Raising the capacity of state management and public awareness.



BUILDING DANANG - AN ENVIRONMENTAL CITY (PERIOD 2021-2030)



KEY MAJORS:

1. POLLUTION PREVENTION & CONTROL

- Improve effectiveness of strategic environmental assessment, impact assessment;
- Promote sustainable production and consumption; using ISO in management
- Relocate production establishments away from craft villages and residential areas;
- Develop renewable energy; set the roadmap to alternate fuel for public vehicles;
- Control waste sources; plan for response to environmental crises;
- Building environmental monitoring system.

07 criteria, 13 tasks

2. IMPROVE ENVIRONMENT; SOVLE KEY ISSUES

- **Water:** Renovate and upgrade wastewater treatment systems, strictly control waste sources, esp. Tho Quang boat harbor, expanding clean water supply; reuse wastewater.
- **Air:** tightly control emissions, maintain and improve Air Quality Index
- **Land & solid waste, hazardous waste:** Upgrade solid waste collection and treatment infrastructure; promote classification at source; improve the environment of the landfill + the biosphere area; improve hazardous waste management.

13 criteria, 25 tasks

3. NATURAL AND BIODIVERSITY CONSERVATION

- Implement the project of biodiversity conservation 2021 - 2030 in the areas of Ba Na - Nui Chua, Son Tra, Nam Hai Van landscape protection area, marine biodiversity conservation;
- To develop a system of green parks and street trees;
- Management, protection and development of forest ecosystems; prevent exploitation of plants and animals and deforestation, prevent forest fire.
- Develop eco-urban areas.

04 criteria, 6 tasks

4. CAPICITY AND AWARENESS ENHANCEMENT

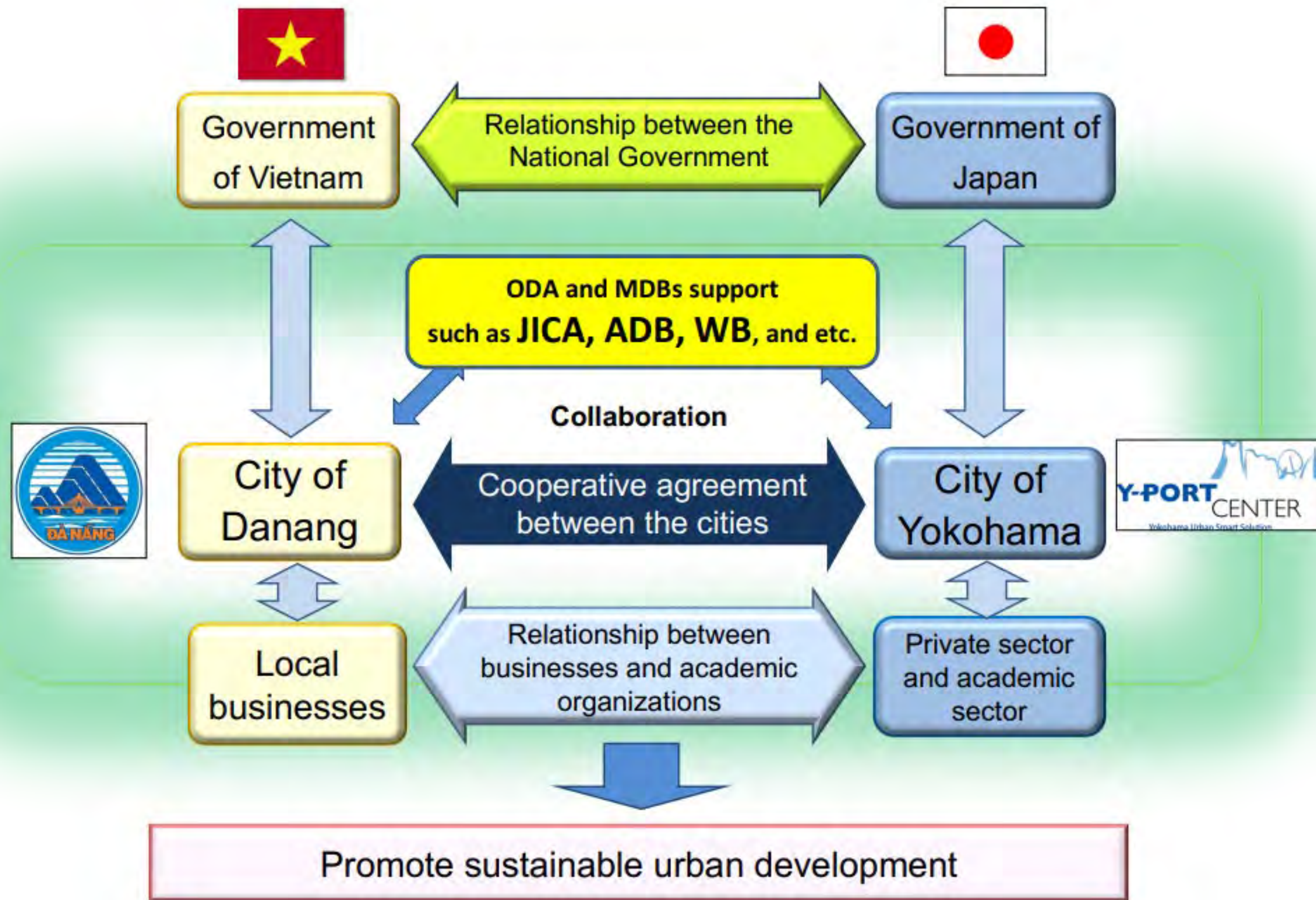
- Enforce laws on environmental protection, improve production technology, and waste treatment.
- Promote movements and models of environmental protection.
- Mobilizing the community, to participate in environmental protection.
- Building the information system on environmental quality and environmental protection.
- Assess the public satisfaction on environment

07 criteria, 7 tasks and projects

An aerial photograph of Yokohama, Japan, showing a dense urban landscape with numerous skyscrapers and residential buildings. In the background, the iconic Mount Fuji is visible, its snow-capped peak partially obscured by a light haze. The city is situated along a body of water, with several bridges crossing the bay. The overall scene is bathed in the warm, golden light of late afternoon or early morning.

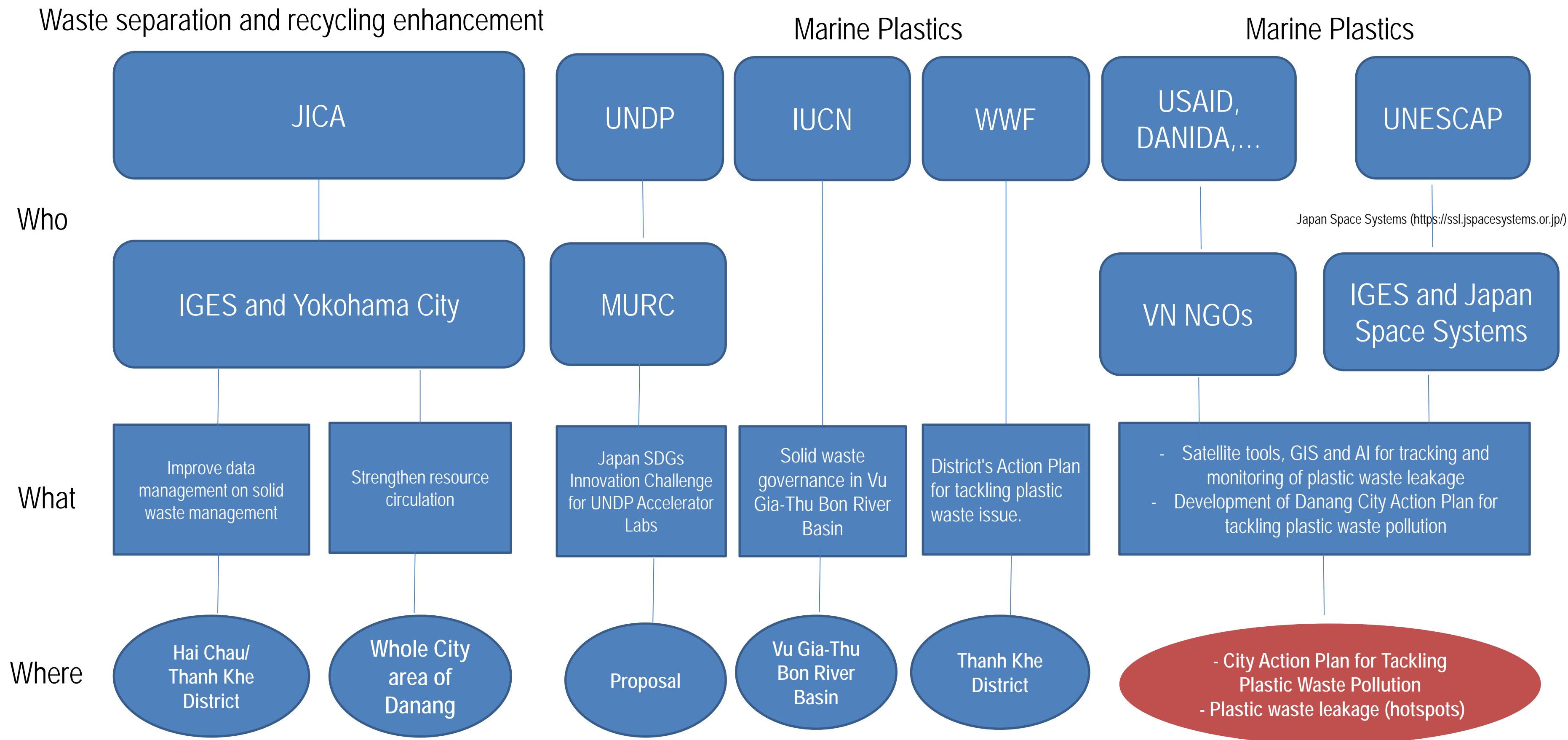
DA NANG CITY- YOKOHAMA CITY CITY TO CITY COLLABORATION

● Framework of cooperation between Da Nang city and Yokohama city

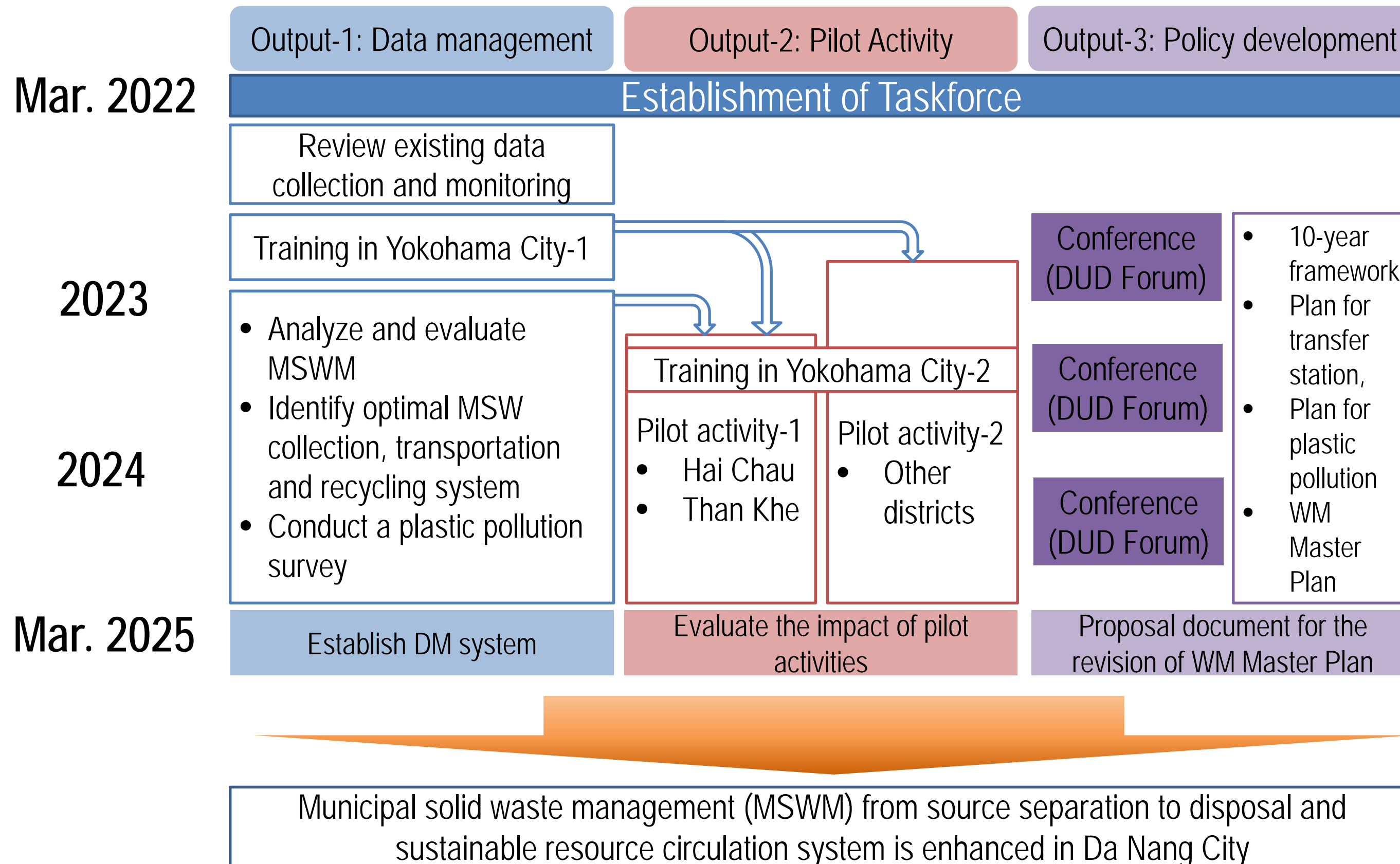


(Reference from Y-Port – Yokohama City)





JICA Partnership Project for Promoting Source Separation and Recycling (the 3Rs) in Da Nang City: Collaboration with Yokohama Municipal Solid Waste Management Experience (D-3RYM)



CARBON NEUTRAL STRATEGY BY2050

Long-term Visions for Da Nang city : Carbon Neutral Strategy by 2050



Green growth

- Based on the master plan (by 2030 vision to 2050)
- Increase local resilience & well-beings beyond growth

–Viet Nam NDC by 2030 (2020)

- Total 9% (~27%) reduction by 2030*
- Energy efficiency reform
- Green Industry & Green agriculture
- Lifestyle transitions
- Preparations for the climate risks

→ Viet Nam NDC (2020) states that Viet Nam will reduce the total GHG emissions by 9% compared to the BAU scenario which is base year in 2014. Energy sector is expected to reduce 51.5 MCO₂e (3.5 % compared to the BAU). The total contribution 9 % can be increased by up to 27% compared to the BAU with international supports.



CARBON NEUTRAL STRATEGY BY 2050

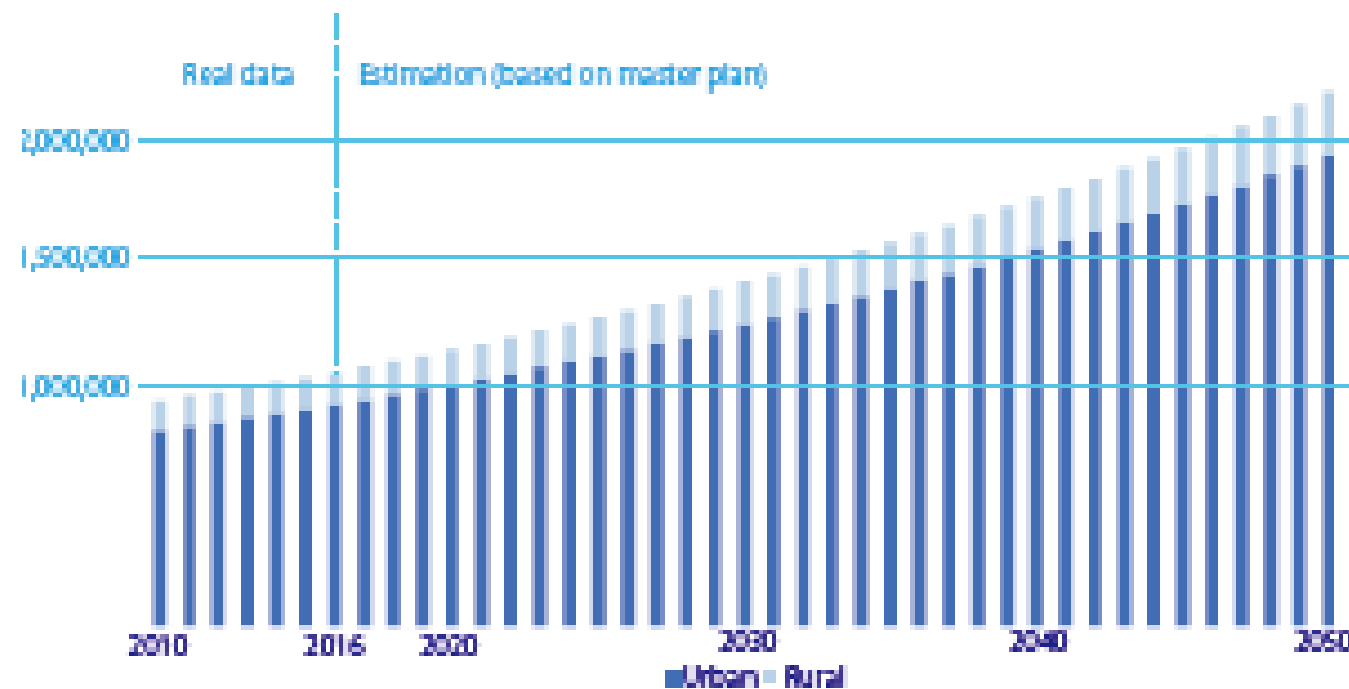
Current situation and why these plans are important for each sector ?

Socioeconomic features

- Population is projected as constantly increase by 2050 associated with the growth in both urban and rural. (BAU)

(Data source: Adjustment of the Da Nang City Master Plan to 2030, with a vision to 2045, 2050)

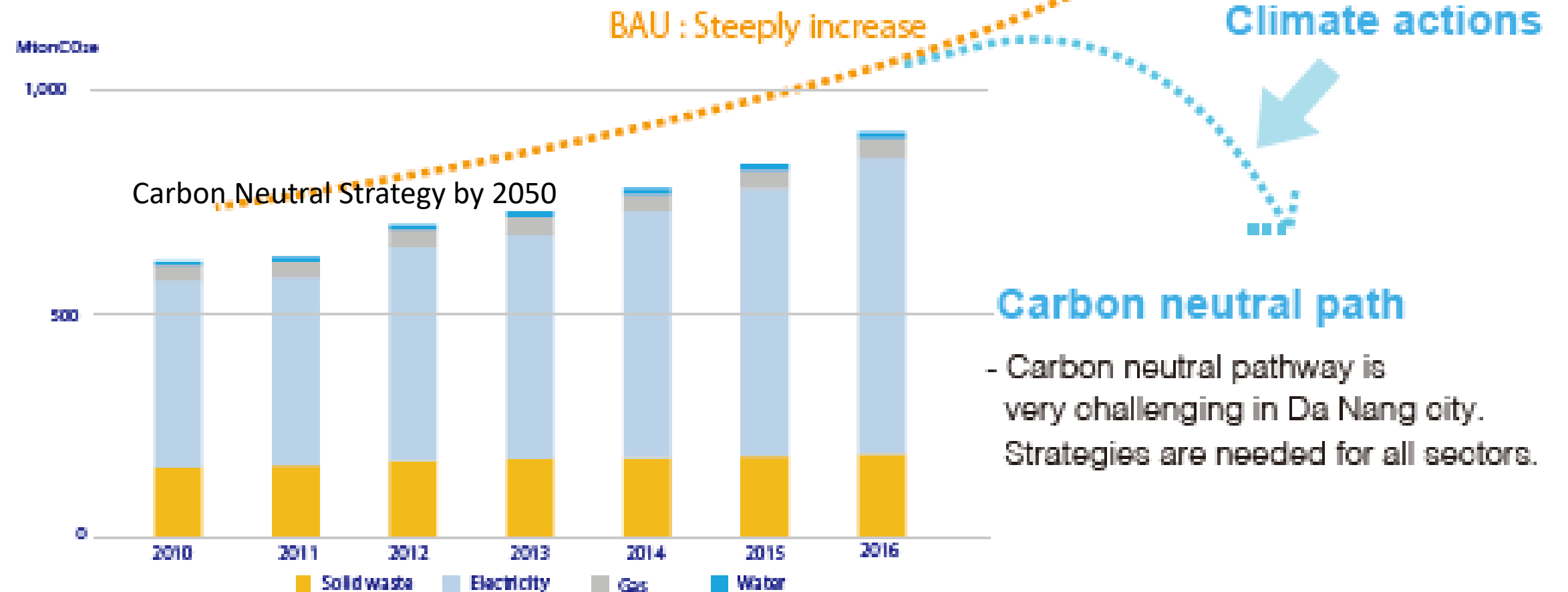
Population projections



Carbon emissions (Graph shows carbon emissions from households)

- Following to the rapid economic & population growth, carbon emissions may also steeply increase.

(Data source: Department of Environment and Natural resources, GHG inventory report in DA NANG CITY, Da Nang, 2017)



Need to set the City's vision as scenarios: Key questions

- How populations will be increased with new residents and visitors by 2050?
- What is the main strategies for the green economy of Da Nang city next decades?
- How Da Nang city can respond to the National climate strategies (NDC, 2020)?

LOCAL CLIMATE CHANGE ACTION PLAN

Suggested Actions and Reduction potential scenario analysis

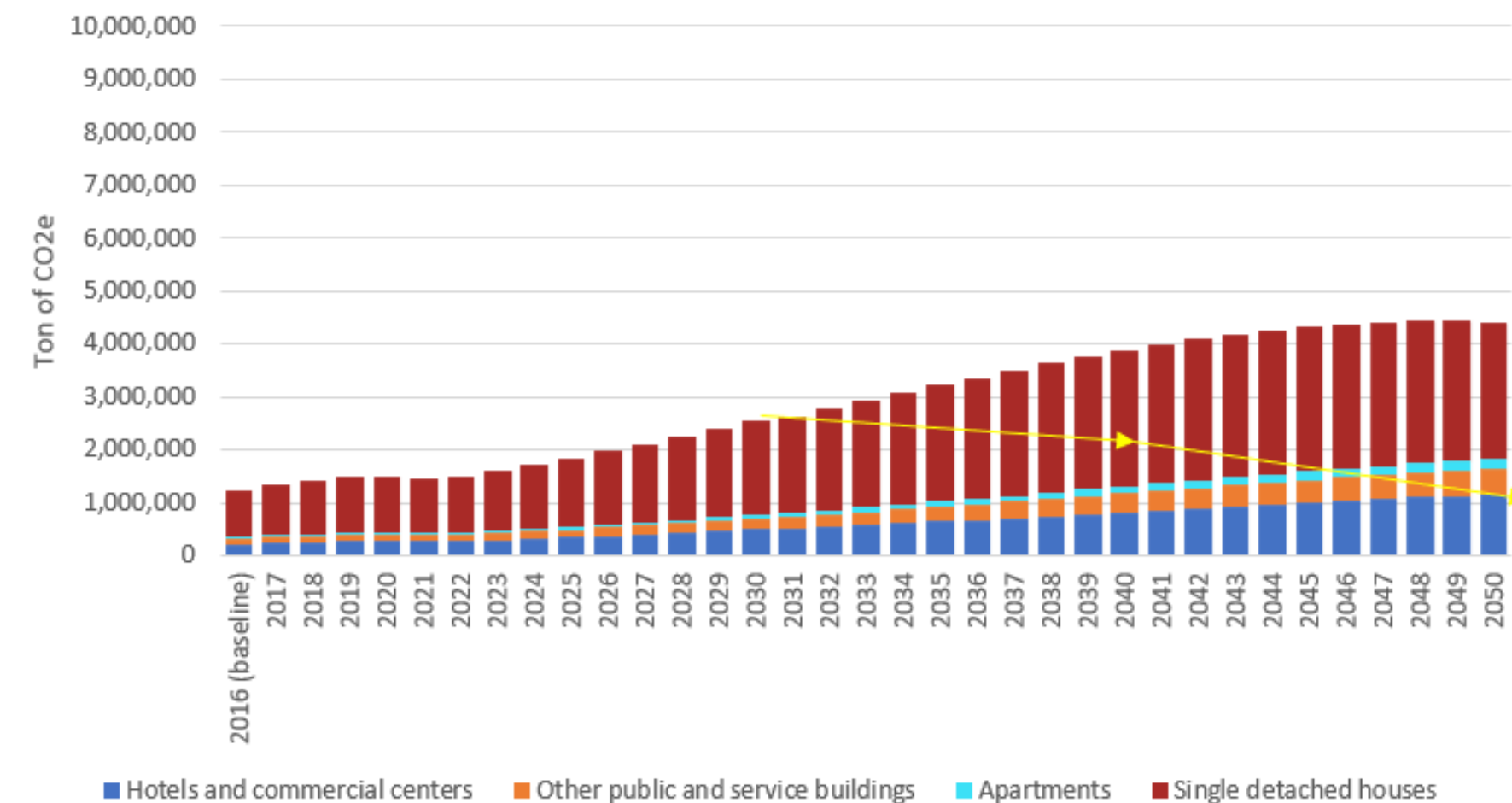
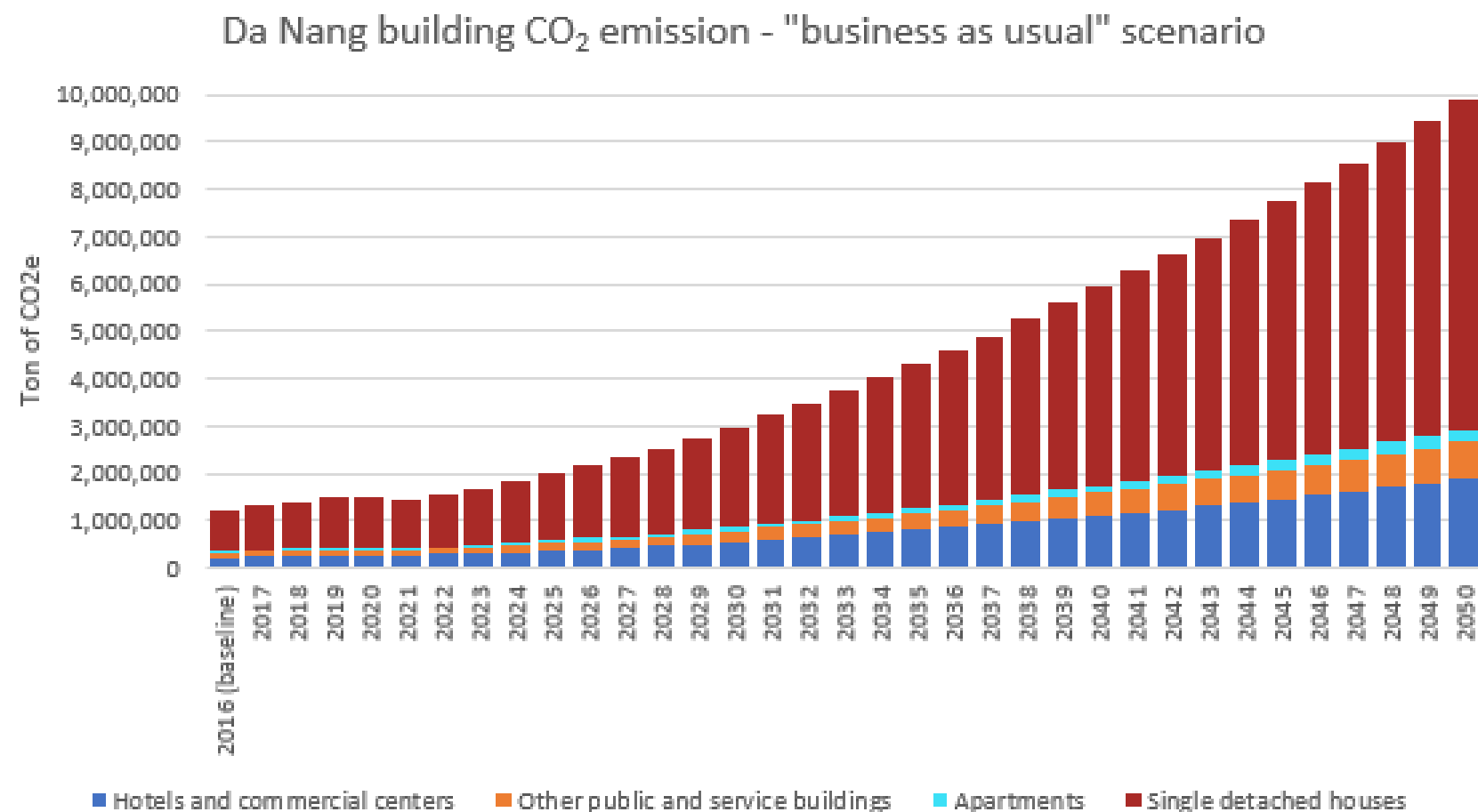
Action 1: Reduce total energy use in existing buildings and new energy efficient buildings

Action 2: Reduce climate change impact on buildings by adaptive envelope design measures

Action 3: Establish city energy regulations and benchmarks

Action 4: Reduce energy consumption in the residential sector (accounted for 73.7% total emission)

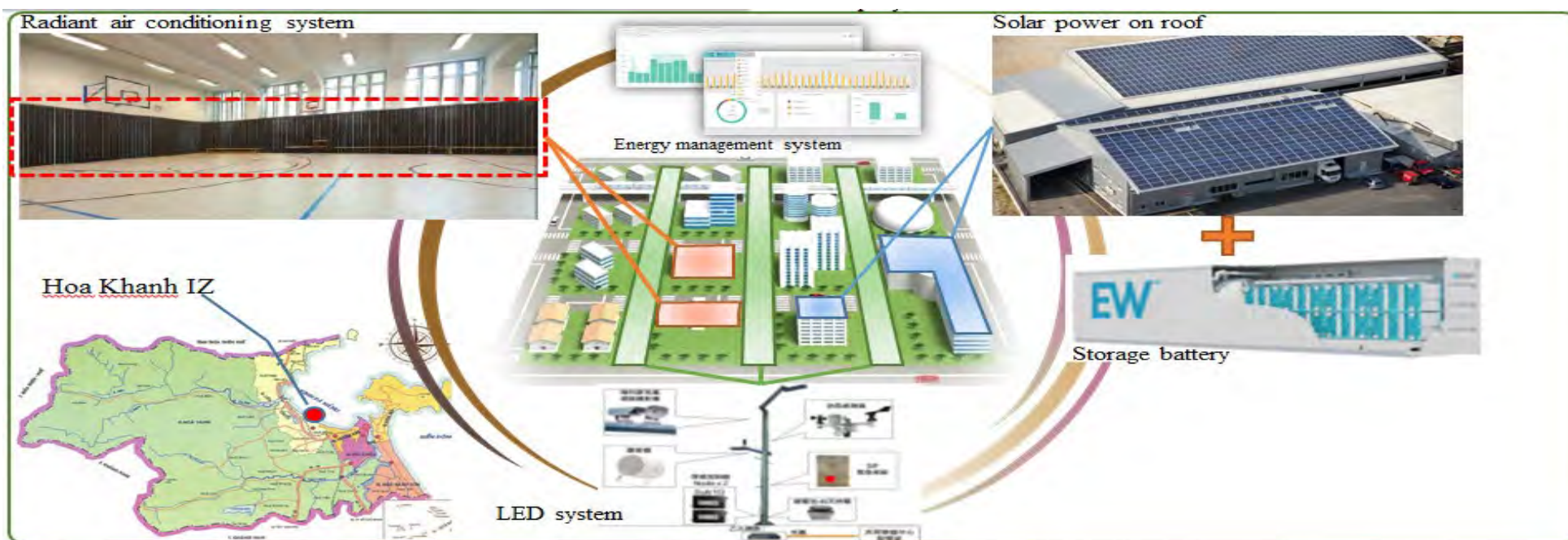
Action 5: Installing on-site renewable production systems (Rooftop PV and solar hot water systems)



● Examination of the feasibility of the model of Eco Industrial Park



- Hoa Khanh Industrial Zone is located in Hoa Khanh Bac ward, Lien Chieu district, Da Nang city .
- Currently , there are 161 enterprises (170 projects) investing directly in the industrial zone;
- Wastes generated : production wastewater, domestic wastewater, emissions, solid waste, hazardous waste, etc .
- An evaluation set for radiant air conditioners was installed in the office of the Da Nang Industry and Trade Promotion Center (ITPC) in January 2022 .



- Select Hoa Khanh Industrial Park to conduct survey and build a **smart energy system** linking **many technologies** as a model project in the industrial zone.



THANK YOU FOR YOUR ATTENTION!

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