

GREEN CITIES INITIATIVE

Green Cities: RETA 8314 - SEUW Towards a Sustainable Urban Future in Southeast Asia

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South East Asia Regional Department

Asian Development Bank $\overline{\mathrm{ADB}}$

Economic growth

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Growing cities, growing waste....diminishing natural resources



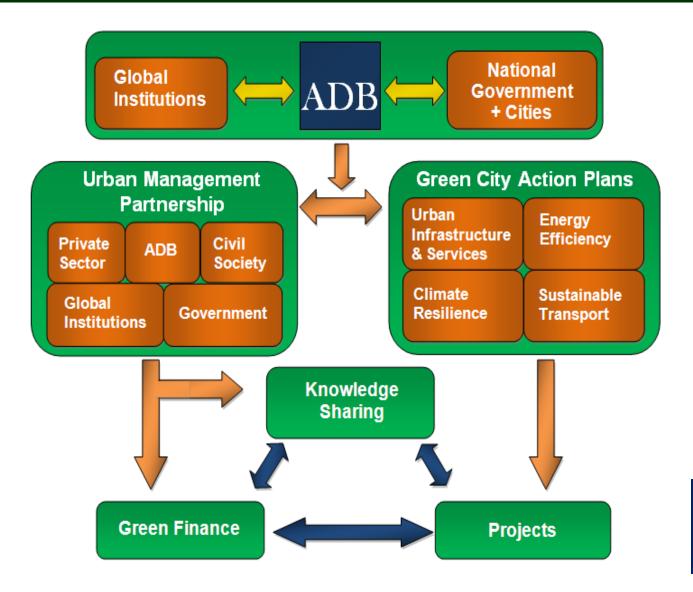


Green Cities

bridging urban planning and environment management



SEUW Green Cities Initiative





RETA – 8314 – outputs

I. Green City Action Plans

–Vision, goals and a time based plan

- –spatial development plan, socio-economic and environmental co-benefits,
- —investment program, leading to environment quality improvements, climate resilience, and revenues
- -performance monitoring indicators for green targets,
- -institutional mechanisms
- -innovative financial modalities
- -citizen's feedback system to ensure accountability



RETA – 8314 – outputs

II. Urban Management Partnerships

Peer-to-Peer learning for urban transformation

- Engage "mentors" from "transformed cities", municipalities, utilities, academia, private sector, local government
- Sharing knowledge, practices and processes of change
- Improving competency in integrated urban & environmental planning, climate resilience, energy efficiency and project management
- Skill development and vocational training
- innovative financing mechanisms for urban infrastructure

The partnership will be replicated to other countries in the region.

Green Financing for Cities

National Government

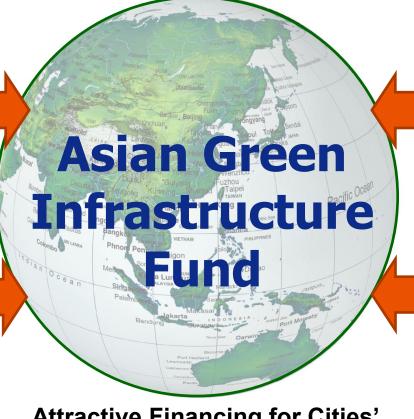
- Viability Gap for PPPs
- Tax Incentives
- Enabling Laws & Regulations
- FX Cover

ADB + Global Funds • Debt / Equity

- Longer Tenor Funding
- Project Financing → Refinanced with Private Sector

Credit enhancement

- Partial Loss Guarantee
- Political Risk Guarantee



Attractive Financing for Cities' Green Infrastructure Projects

Co-Financing from Private Investors:

- •Local private sector banks
- Pension funds
- Insurance funds
- Islamic investors

Specialist Green Investors / Donors •Social impact investors •NGOs •Corporations (CSR)



Hue – UNESCO Heritage City

Vinh Yen – Competitive Green City





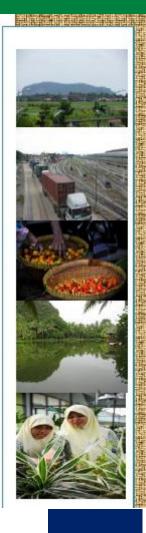


GREEN CITIES for IMT-GT Region

INDONESIA-MALAYSIA-THAILAND GROWTH TRIANGLE

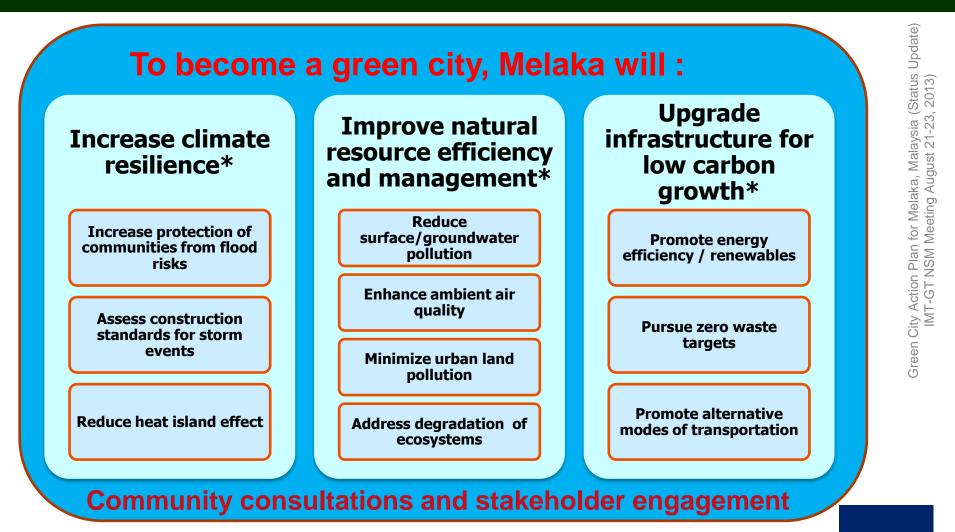
ADB Interventions in IMT-GT

- Melaka Green City Action Plan (GCAP)
- -Songkhla, Thailand
- Medan, Indonesia proposed under TA for Green Cities in Indonesia
- Investment projects





Malaysia, Melaka - Green City - (in progress)



*Note: Increasing climate resilience, improving natural resource management, and upgrading infrastructure are not mutually exclusive directives. The actions proposed under one may also benefit concerns related to the other two.



Upgrade Infrastructure for Low Carbon Growth – Promote Alt Modes of Transportation

Potential Actions - Melaka



Pedestrianized street in Beijing



Promote use of fuel efficient boats

Potential Institutional / policy change

- Pedestrianization of historic centre
- Integrated transportation planning and regulatory body
- Promote urban density that supports a walkable environment

Potential Projects

- Increase connectivity and extent of 'safe' pedestrian and bicycle network
- Promote rail and buses connectivity between Melaka and the region
- Promote the use of River Melaka for transportation



Result

- Green Cities
 - Livable
 - -Drivers of economic growth
 - –Low carbon footprint
 - Ecological approach to urban planning
 - -Climate resilient



Implementation challenges will require

- Coordination between multiple government agencies, private sector, community organizations and citizens
- Adaptive management approach where the actions can be modified if needed (based on monitoring, evaluation of baseline data, and citizen feedback)
- Capacity building and project management efforts
- Knowledge of funding sources and facility to raise capital
- Tools and database to monitor plan implementation



- Concept only
- Aligned with plans and activities of government (Bappenas & MPW)
 - National Urban Development Policy and Strategy (*Kebijakan dan Strategi Pembangunan Perkotaan Nasional* KSPPN
 - Green City Development Program (*Program Pengembangan Kota Hijau*-P2KH)
- Based on ADB's strategy
- Focus on 4 cities

Issues to be addressed:

- High urbanization rate
 - Between 1990 and 2010, the urban population has more than doubled from 56 million to around 128 million

• Lack of infrastructure

- chronic underinvestment
- US\$ 150 billion of investment in infrastructure is necessary to keep pace with urban demand



Issues to be addressed:

- Climate change vulnerability
 - extremely vulnerable to climate change sea water rise
 - 42 million people living less than 10 meters above sea level
- Need for integrated planning
 - integrate economic growth and environmental sustainability to improve the quality of life
 - knowledge sharing, capacity development, and multi-sector coordination.



Main activities

- green city action plan
- identification of innovative financing mechanisms
- development of urban management partnerships
- small scale pilot project in two cities



Green city action plan

- mainstreaming an integrated urban planning and development process (environmental criteria, social inclusiveness and climate change adaptation)
- create a pipeline of projects and key investments for green cities

Innovative financing mechanisms

- public financial constraints
- new financing sources and partnerships (private sector, charges & fees, loans & bonds, carbon finance, etc)
- green financing; capacity building



Urban management partnerships

- Capacity development: national and local governments, civil society, and the private sector
- Linkage with national strategies
- Knowledge sharing linkage with regional knowledge hub

Small scale pilot project

- to be implemented through the Learning and Action Alliances (LAA) approach, supported by UNESCO-IHE (IHE)
- develop a concrete plan for a clearly identified urban area

Result (outcome):

improved city management's capacity in integrated planning and management of urban infrastructure

Objective (impact):

integrated urban planning and management system adopted by the relevant departments in the project cities

How:

- Coordination: ADB, BAPPENAS (Directorate of Urban and Rural Affairs, EA), MPW (Directorate General of Spatial Planning of the Ministry of Public Works), Tim Koordinasi Strategis Pembangunan Perkotaan Nasional
- Implementation: City working groups (local governments, private sector, academia, industry, nongovernment organizations, and community-based organizations), consultants and UNESCO-IHE (inception phase: detailed implementation arrangements, may differ for each city)

- Finalize concept based on workshop results
- Circulate for comments to Bappenas, MPW, cities.
- Finalize and approve concept
- Start TA in 2014 (2.5 years)



Look forward to a strong partnership for Green Cities

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