



SUKSES
JAKARTA
UNTUK
INDONESIA

Best Practices on Collaboration for Resilience in Jakarta

PRESENTED BY:

Tirta Mulya, RONALD

PLANNER OF DEVELOPMENT AND ENVIRONMENT DIVISION
REGIONAL PLANNING AND DEVELOPMENT AGENCY
JAKARTA PROVINCE GOVERNMENT

EVENT:
4th INTERNATIONAL FORUM ON LOW CARBON CITIES

Kitakyushu, Japan - October 2024

— Jakarta, Indonesia



- Land Area : **661,52 Km²**
- Population: >10 million
- The biggest metropolitan city in Southeast Asia



– Jakarta's Challenges

Shocks



Floods



Social
Conflict



Extreme
Weather



Fire



Infrastructure
Failure



Disease
Outbreak



Earthquake

Stress/Pressure



Congestion



Sanitation
and
Drainage
Issues



Climate
Change



Air Pollution



Acces to
Clean Water



Waste
Management



Land
subsidence



Jakarta's
Status
Post Capital
City
Relocation



Technology
Disruption



Climate
Change



Urbanization

Future Directions: As Global City



FIXING THE FUNDAMENTALS

Resilient (Flood):

Implement sustainable water management and conservation, mitigation of land subsidence, NCICD

Waste Management:

Recycle and reduce waste volume

Cleanliness (Clean Water Access):

Improve wastewater treatment and ensure access to clean water

Ecology

(Emissions & Pollution):

Reduce emission through renewable energy and sustainable transportation.

Housing: Provide affordable housing for low income people

Mobility: Mode shift from private to public transport to reduce traffic congestion



ENHANCING QUALITY OF LIFE

Public Space : effective and inclusive use of public spaces between green and community purposes

Career and Job: high-quality jobs for low-income people to reduce inequality

Business: Support MSMEs growth through access to finance, markets, regulations and capacity building

Education: Improve education quality and accessibility through Investment in public schools

Health: Improve accessibility for health services and facilities to reduce disparities



INCLUSIVE & THRIVING ECOSYSTEM

Competitive Industry: Shifting to knowledge based and high-value product (e.g. technology)

Innovation: strengthen the ecosystem and infrastructure for R&D

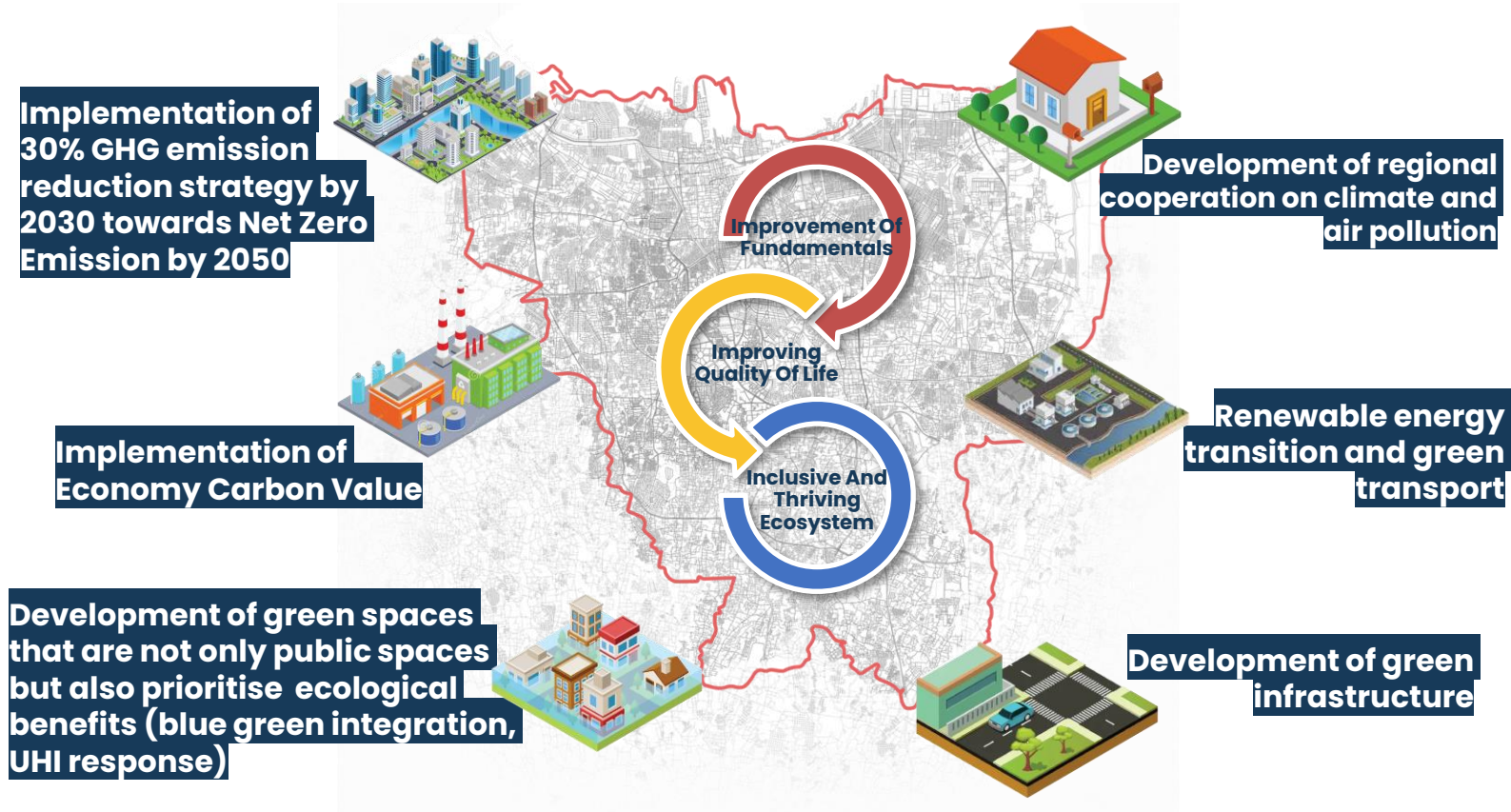
Inclusivity & Equality : enabling minority groups through limitless support for mobility & economic opportunities

Identity from Culture & History : Revitalize cultural sites to promote heritage and tourist destination

Transparency & Accountability : improve government decision making transparency

Smart Governance: Improve e-governance services and utilize big data analytics

- Vision for Mitigation & Adaptation Climate Change



Governor Regulation No. 90 year 2021 on Regional Low Carbon Development Plan (RPRKD)

MITIGATION OF CLIMATE CHANGE

(5 Sectors, 11 Actions)



Energy

- Energy efficiency
- Expanding renewable energy
- Transition of environmental friendly fuels
- Shifting public transportation utilization
- Mainstreaming pedestrians and cyclists



AFOLU

Expansion of GHG reduction adsorption



Waste Management

Reducing waste from the source



IPPU

Environmental friendly energy usage for industry



Others

Climate change diplomacy

ADAPTATION OF CLIMATE CHANGE

(7 Sectors, 11 Actions)



Housing and Settlements

Provision of housing and residential area



Food Security

Food security improvement efforts



Health Efforts

Health facility provision



Energy Management

Energy Management



Climate Resilient Infrastructure



Coastal and Small Islands



Water Resources Management

- Waste water management
- Groundwater infiltration management
- Flood control management



Governor Decree No. 209 Year 2023 on Climate Disaster Mitigation and Adaptation Working Team (MABI Team)

WORKING GROUP



Mitigation of Climate Change



Adaptation of Climate Change



Funding and Partnership Cooperation



Communication and Community Participation



Research and Innovation



Climate Change Mitigation and Adaptation Activities Become Regional Strategic Activities (KSD 14)

— Jakarta's Collaborative Efforts



Public-Private Partnerships (PPPs)



Drinking Water Supply

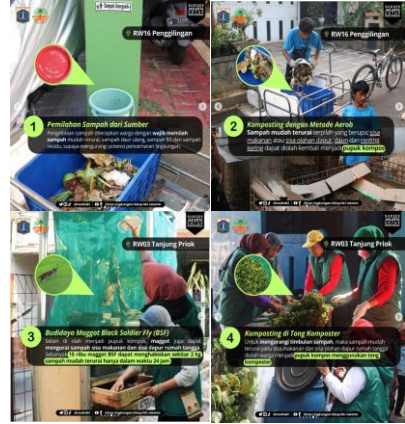


Mass Rapid Transportation



Coastal Dyke

Community Engagement



BPS RW



PROKLIM

NGOs and Civil Society Organizations



NGO/Cities Network Partnership



Jakarta as one of the champion in Urban Resilience Nationwide Project



Collaboration with Clean Air Fund

Jakarta's Case Studies

INFRASTRUCTURE

Reduce, Reuse, Recycle/ 3R Waste Collection Point



Solar Panel

Jakarta Recycle Center (JRC)



TECHNICAL ASSISTANCE



WEBSITE

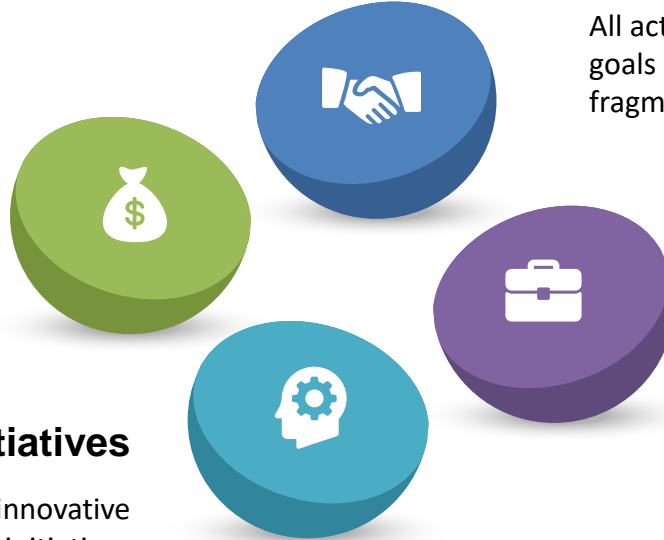
Jakarta Rendah Emisi: Portal Belajar Perubahan Iklim dan Polusi Udara



Urgency of Collaboration

Limitations

The government has limitations in both financial and human resources.



Many Initiatives

There are many innovative environmental management initiatives from communities, academics, startups, and companies.

Partial Efforts

All actions and education share the same goals and objectives but still operate in a fragmented manner.

Platform

A platform is needed to channel aspirations, ideas, and innovations, as well as to synergize actions with other stakeholders.

Jakarta's Call to Action



Governor Regulation No. 90 year 2021 on
Climate Resilient Regional Low Carbon Development Plan (RPRKD)

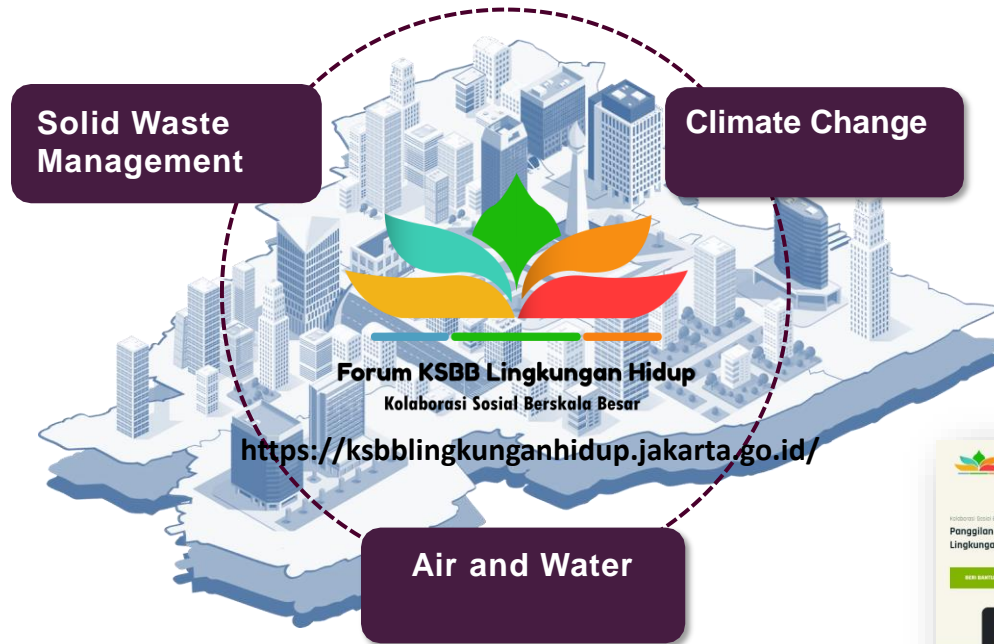
GHG Emission Reduction Targets

2030	30%	Conventional Target
	50%	Ambitious Target
2040 (?)	
2045 (?)	
2050	Net Zero Emission	



Potential
collaboration for
intermediate
targets?

– Collaboration Framework for Environmental Management in DKI Jakarta





3R Waste Collection Point

- ▶ **Infrastructure Development**
- ▶ **Processing Facilities (Machines & Equipment)**
- ▶ **RDF Offtaker**

Locations of 3R Waste Collection Points that can be collaborated on for Development:

- ▶ Penggilingan Cakung
- ▶ Tegal Alur RW.04 Kalideres
- ▶ Kramat Pela Kebayoran Baru
- ▶ Kebon Kelapa Gambir
- ▶ Matraman Menteng
- ▶ KBI Pancoran
- ▶ Waduk Cincin Tanjung Priok
- ▶ Eks PPD Tipar Cakung
- ▶ Kelapa Gading Barat
- ▶ Jl. Rengas Kebayoran Baru
- ▶ Rusun Marunda
- ▶ Asrama Sunter

3R Waste Collection Point at P1000 in the 2024 Development Planning

- ▶ Pulau Harapan
- ▶ Pulau Panggang
- ▶ Pulau Kelapa



BPS RW & Bank Sampah

- ▶ **Infrastructure:** Digital Scales, Sorted Waste Bins, etc.
- ▶ **Assistance** and training for residents and the Neighborhood Association (RW) support staff
- ▶ Collaboration on Waste Bank **Innovations**



Organic Waste

- ▶ **Infrastructure**, such as organic waste bins, shredding machines
- ▶ **Transportation** of organic waste
- ▶ **Training** on BSF (Black Soldier Fly),



Mitigation and Adaptation Actions

- ▶ **Funding** for climate change mitigation and adaptation actions
- ▶ **Energy efficiency** in buildings



Education & Information Technology

- ▶ **Communication strategies** for climate change mitigation and adaptation
- ▶ **Expert meetings** discussing the northern coastal area of Jakarta and the Thousand Islands
- ▶ **Development** of an Information System for Greenhouse Gas Inventory, Carbon Footprint, Carbon Trading, etc.

Ongoing Synergies: Training for stakeholders



Kampung Iklim

- ▶ **Kampung Iklim Infrastructure**
- ▶ **Assistance** and training, such as urban farming training, waste sorting, etc.

— Potential Activities – Air & Water Cluster



Air

Air Quality Monitoring Tools

- ▶ Addition of Air Quality Monitoring Tools

Studies & Research

- ▶ Assessment of air pollution impacts on health, social aspects, and the economy
- ▶ Other air pollution control studies

Emission Testing & Low Emission Areas

- ▶ Increase in the number of emission testing workshops
- ▶ Development of Low Emission Areas

Open Waste Burning

- ▶ Monitoring and reporting of waste burning
- ▶ Education on the dangers of waste burning
- ▶ Installation of "No Burning Waste" signs
- ▶ Publication of infographics related to waste burning

Data & Information Technology

- ▶ Integration of Air Quality Data
- ▶ Integration of Emission Testing Tools and Systems

Campaigns and Education

- ▶ Campaigns for air pollution control
- ▶ Campaign against open waste burning
- ▶ Increasing public awareness of the Air Pollution Standard Index (ISPU)
- ▶ Socialization of the application of green industry standards in industrial companies



Water

Water Quality Monitoring

- ▶ Continuous/Online Water Quality Monitoring Tools
- ▶ Joint monitoring, both manual and continuous/online

Cleaning of Reservoirs/Bodies of Water

Studies & Research

- ▶ Assessment of water pollution impacts
- ▶ Studies related to online monitoring in DKI Jakarta

Socialization, Education, Communication Strategies

- ▶ Campaigns and socialization for the maintenance of water channels/bodies/outlets

Data & Information Technology

- ▶ Development of an early warning system for water pollution



Jakarta
Sukses Jakarta untuk Indonesia!

THANK YOU!

Jakarta Regional Development Planning Agency
(BAPPEDA)
2024