









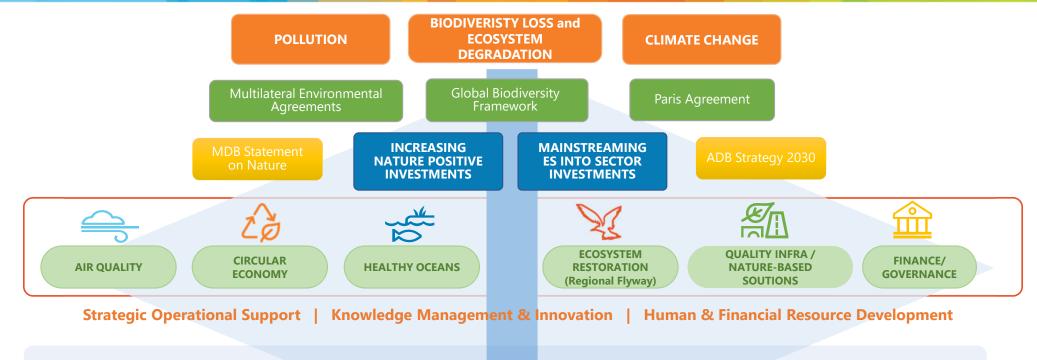
ADB's activities on promoting Synergy between climate change, biodiversity and pollution

Tatsuya Yanase Climate Change and Sustainable Development Asian Development Bank



INTERNAL. This information is accessible to ADB Management and staff. It may be shared outside ADB with appropriate permission.

Synergy and multiple benefits through Environment

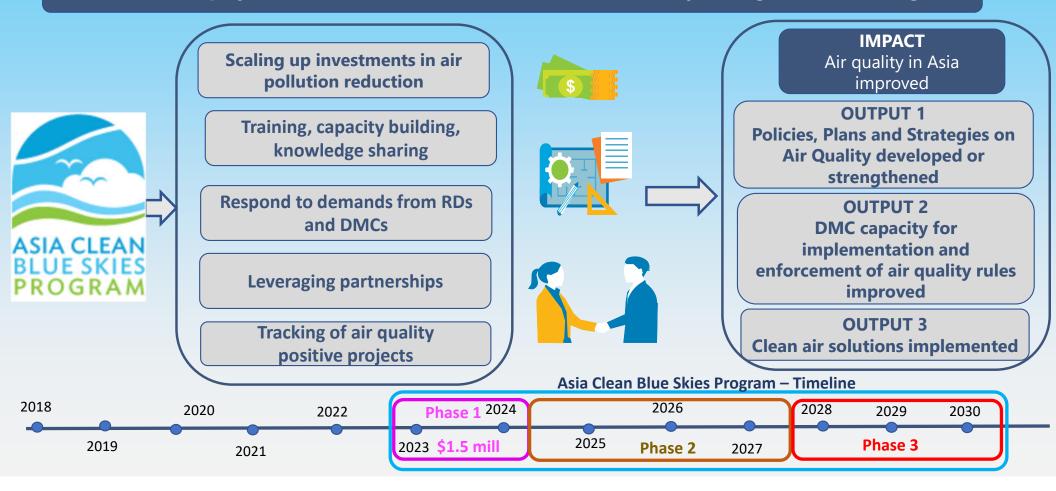


So Increase technical and financial S Greener Country Partnership Strategy So Develop and implement ADB's capacity for nature positive (CPS) development, including relevant approach and guidance on investments, including assessment and diagnostics Environment related work. promoting private sector involvement. S Promote with and support sector groups with greener pipeline development and Promote and manage internal implementation of nature positive and external partnerships to initiatives advance environment related work. **ENVIRONMENTAL SUSTAINABILITY**

INTERNAL. This information is accessible to ADB Management and staff. It may be shared outside ADB with appropriate permission.

Asia Clean-Blue Skies Program

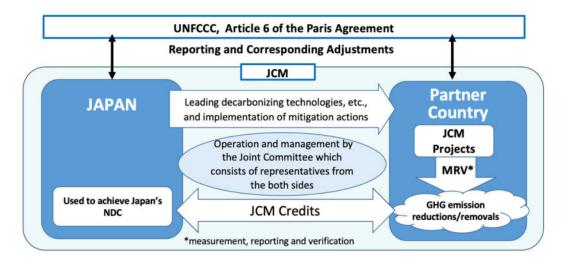
GOAL: ADB to play a more active role and be a leader in Air Quality Management in the region



ADB

Japan Fund for the Joint Crediting Mechanism

- Established in June 2014 as one of ADB's trust funds
- Contribution by Government of Japan: \$118.77M (2014-2023)
- Provides financial incentives (grant) for adoption of advanced low-carbon technologies in ADB-financed projects that use the Joint Crediting Mechanism (JCM)*



Requirement for co-benefits

The project should deliver environment and social benefit on recipient DMCs through:

- a reduction of environmental pollution, including air or water pollution, solid waste treatment, or conservation of natural resources; and/or
- other social economic benefits, including increased job creation opportunities, better access to basic infrastructure, and gender equality.

INTERNAL. This information is accessible to ADB Management and staff. It may be shared outside ADB with appropriate permission.

ADB NbS projects Evidence-based landscape approach



Landslide

1. Hybrid approach Combination of green & gray infrastructure

2. Core sectors with potential for NbS



Landscape approach with science-based systematic process and tools based on multistakeholder participation

3. Comprehensive and integrated perspective

Sponge Cities

- Green embankments and greenways
 Wetland parks for storm water retention
- River widening and planting aquatic
- and riparian vegetation

Climate-Resilient Coastal Protection and Management

- · Mangrove protection and rehabilitation
- Artificial reefs and salient formation
- Coarse sand beach nourishment
- Sand dune stabilization with vegetation

Integrated Watershed Management

- Participatory agroforestry
- and rangeland management
- Enhancing forest and vegetation cover
 Small-scale community structures such as farm ponds and check dams

n n

(...



- Flood plain and meander restoration
- Embankment and obstacle removal
- Water retention areas
- Channels and wetland restoration

ADB projects using NbS (examples)



Regional Revitalization of Informal Settlements and their Environments using a Water-Sensitive Approach > Decentralized, green infrastructure



Pakistan • Flood Emergency Reconstruction

Reconstruction and Resilience Project > Bioengineering to stabilize slopes



Viet Nam

Promoting Climate Resilient Rural Infrastructure in the Northern Mountain Provinces > Bioengineering

Secondary Green Cities Development Project > Water-sensitive urban design

India

Sustainable Coastal Protection and Management Investment Program > Artificial geotextile submerged reefs and the enlargement and stabilization of beaches



PRC Jiangxi Pingxiang Integrated Rural-Urban Infrastructure Development > Sponge city

ADB

Yangtze River Green Ecological Corridor Comprehensive Agriculture Development > Protection and rehabilitation of agro-ecosystems

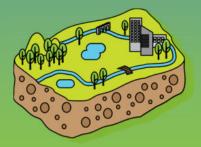
Philippines

Integrated Flood Risk Management Sector Project > Landscape approach

Indonesia Revitalization of Informal Settlements > Green infrastructure to biologically treat water



Building resilience through nature-based solutions





Sustainable coastal protection and management

Hybrid approach –

(i) artificial geotextile submerged reefs to address sea level rise and intensive storm surges and

(ii) beach nourishment, dune construction, and plantations to enlarge and stabilize beaches

Before

After

GEOTEXTILE SUBMIREG REEF





BEACH NOURISHMENT





Coasts are sensitive to sea level rise, changes in the frequency and intensity of storms. Addressing the additional stress of climate change require new and innovative approaches to minimize losses and mitigate damages due to climate change.

riate permission.

ADB

The slope and embankment protection combining bioengineering and traditional infrastructure has increased the resilience of local communities in Viet Nam to natural extreme events such as flooding.

Slope failures



Fill slope: Vetiver grass lines



Financing nature



Strategic use of concessional loans and grants to finance ecosystem conservation and restoration Increase funding for nature with innovative financial instruments (e.g., green and blue bonds, PES/ecocompensation, carbon credits) Redirecting financial flow from "gray" to "green" solutions by incentivizing natural capital investment through grants and technical assistance

ADB

Nature solutions finance hub (NSFH)

- Aiming to support developing member countries to create bankable projects, mobilizing public and private capital
- Financing high impact biodiversity and naturebased adaptation/resilience initiatives

FOUR ROLES OF THE HUB Incubator Role **De-risking Finance Role** To act as a value-adding, generator To pool and scale up development of high impact NBS project types funds-philanthropies, concessional for further development for DMCs sources-to innovatively be used NSFH Vision in Asia and the Pacific as de-risking capital for enhancing NBS bankabilities Scale up finance from private, public and philantropic sources into a growing pipeline of NBS projects across Asia and **Innovating Finance Role Visibility and Profile Building** the Pacific To foster development of catalytic To combine global efforts into finance solutions-including building visibility, capacity national facilities/instrumentsand interest in NBS projects for sustainable NBS projects among DMCs ACTIVITY PILLARS Structure NBS Proactive Origination: financing Develop **Build NBS Profile.** Develop a instruments/models High Impact NBS **Knowledge and De-risking Fund Regional NBS** for bankability **Signature Projects** Capacities **Prioritization Efforts** Global best practice Pool together global Structure and Dynamic analysis, Project specific on NBS projects sources of capital support to financial taxonomies. finance structuring and national risk local impacts, for for mobilizing capital for NBS for use as closure impacts-build prioritizing NBS and maximum de-risking funds champions projects multiplier effect

Partnership for nature







- Working with development partners to mobilize technical and financial resources to ensure the highest-quality service
- Collaborating with Japan's Ministry of Environment since late 80s in biodiversity conservation, sustainable natural resource use, climate change through nature positive investments, air quality management, ocean health, regional flyway initiative
- **Partnership with Satoyama Initiative** bringing opportunities and innovations for enhancing environmental sustainability in Asia and the Pacific



THANK YOU!