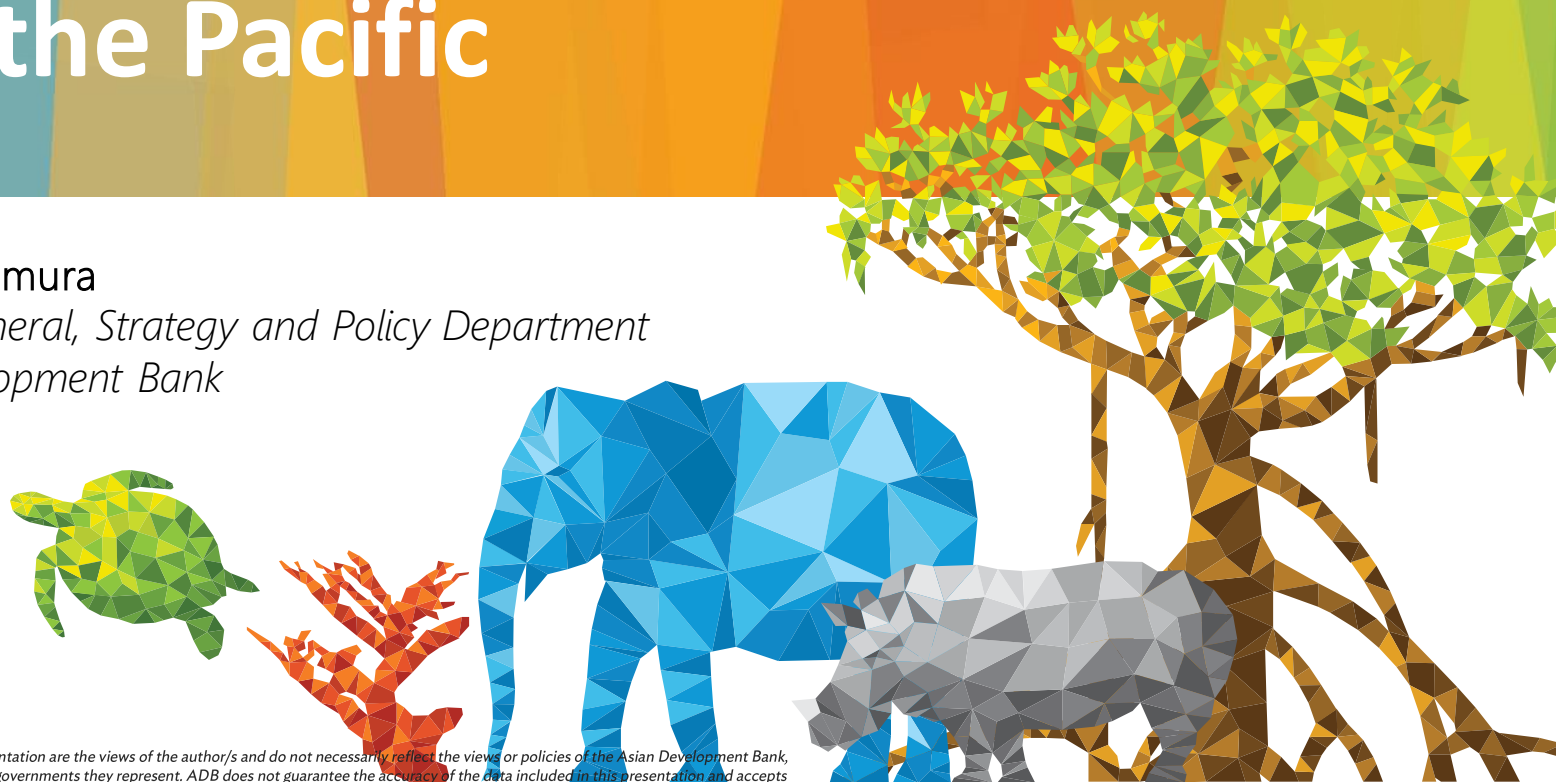




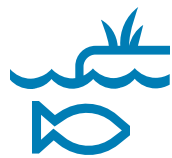
Enhancing Environmental Sustainability in Asia and the Pacific

Tomoyuki Kimura

*Director General, Strategy and Policy Department
Asian Development Bank*



The views expressed in this presentation are the views of the author/s and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy of the data included in this presentation and accepts no responsibility for any consequence of their use. The countries listed in this presentation do not imply any view on ADB's part as to sovereignty or independent status or necessarily conform to ADB's terminology.



Outline

1. **Introduction to ADB:** Responding to changing needs in Asia and the Pacific
2. **Key issues:** Critical environmental trends shaping the region
3. **Strategy:** How has ADB been responding?
4. **Action:** Examples of innovation
5. **Partnerships:** Working with universities and institutions to create change



1. Asian Development Bank: What is Our Role?



Introduction to ADB's Strategy 2030: Responding to a Changing Asia and the Pacific

ADB

PROSPEROUS



INCLUSIVE



SUSTAINABLE



RESILIENT

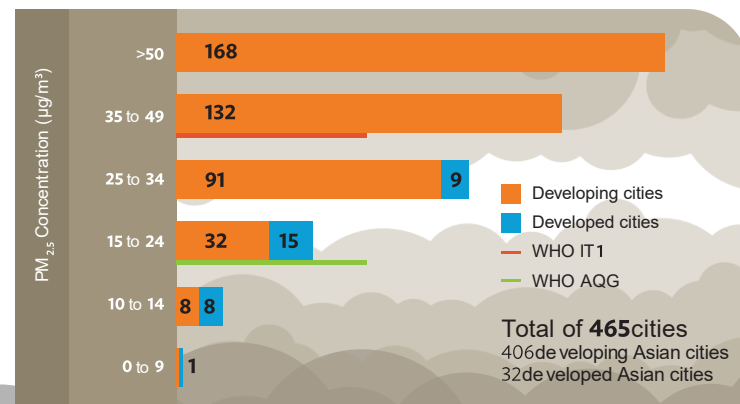


2. Critical Environmental Trends Shaping Asia and the Pacific

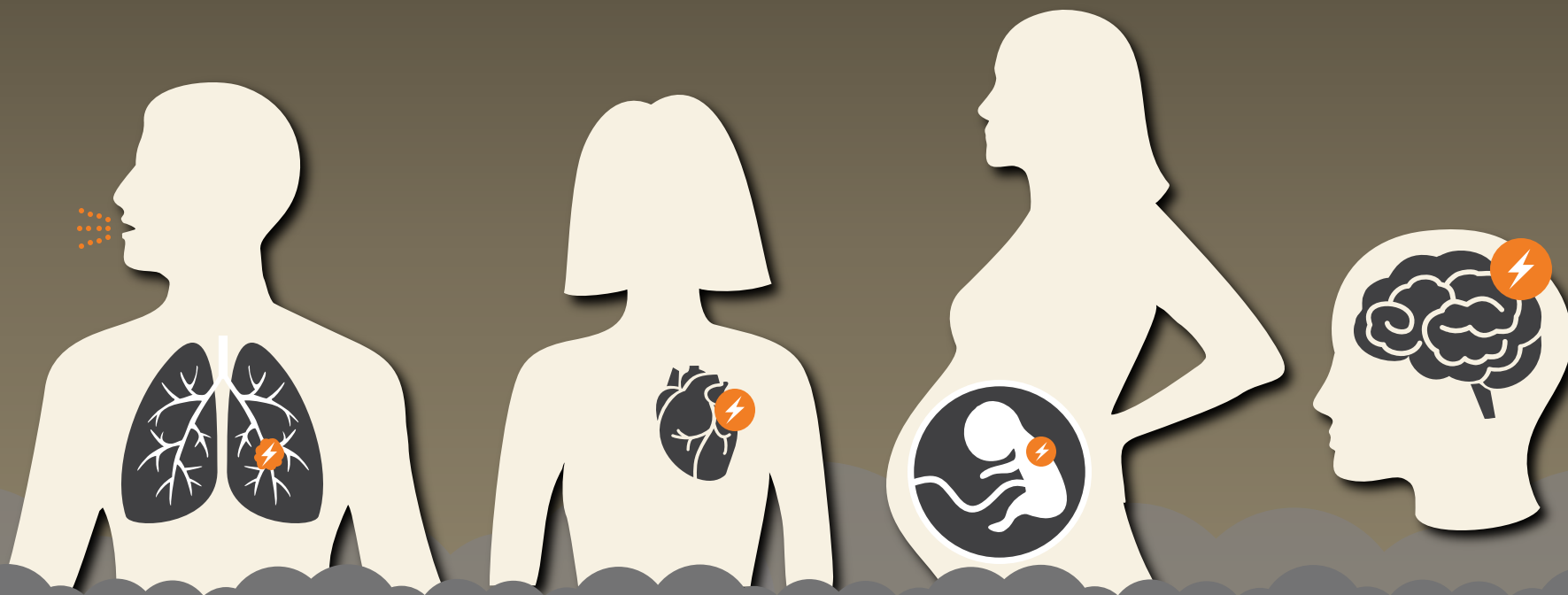


Air pollution is choking Asian Cities.

95% of cities with >100,000 people with poor AQ
4.5 million annual premature deaths in Asia

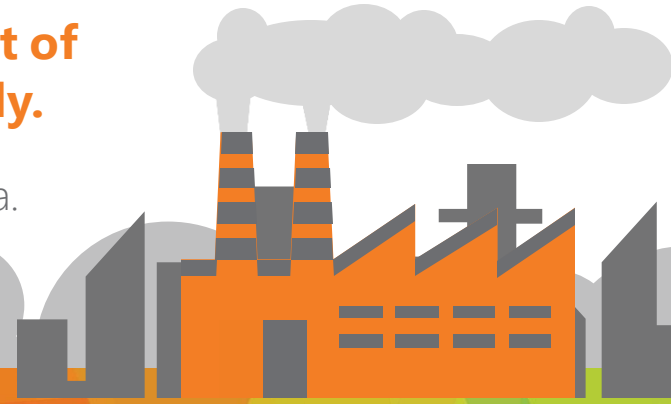


Health Effects of Poor Air Quality (AQ)



Asia's GHG emissions have grown faster than the rest of the world. Climate risks and impacts are rising rapidly.

42% global CO₂ equivalent emissions (2014) from developing Asia.
Increasing vulnerability to extreme weather events



Biodiversity across the region is declining and land degradation has escalated.

60% decline in species since 1970

23-55% rural populations with degraded agricultural land



Water scarcity is rising with overconsumption, pollution and climate change.



Ocean health and productivity declining

Asia and the Pacific region produces **80%** of the world's **aquaculture** and **60%** of **capture fisheries**.

Marine populations have **declined by 49%** in the past 50 years
No exploitable wild fish stocks for commercial fishing by 2048



Waste generation outstrips disposal capacity, leading to marine and land pollution.

About 1/3 of wastewater treated

75% of municipal waste collected but **less than 60%** treated



3. Strategy: How is ADB responding?



Key Historical Milestones of Environment Operations in ADB

ADB



1972

ADB begins to act on environmental pollution

Projects include: Metropolitan Water Intake Project, Republic of Korea and Environmental and Water Supply Study of Laguna de Bay, Philippines



1978
to 1979

ADB develops guidelines for Fisheries and Forestry and incorporates environmental considerations in ADB operations



1992

ADB Medium Term Strategic Framework 1992-1995

Emphasized on environmental protection as part of ADB developmental role



1995

ADB Forestry Policy



1997

ADB Fisheries Policy



2002

- Creation of Environment and Social Safeguards Division
- ADB Environment Policy

2008

ADB Strategy 2020

Promoted environmentally sustainable growth as one of ADB's strategic agenda, with environment and climate change as one of the core areas of operations



Key Historical Milestones on Environment Operations in ADB

ADB

2009

ADB Safeguard Policy Statement

Strengthened protections already in place for environment, involuntary settlement, and indigenous peoples

2013

Environmental Operational Directions (EOD) 2013-2020

2015

Sendai Framework for Disaster Risk Reduction, Addis Ababa Action Agenda, 2030 Agenda for Sustainable Development (Sustainable Development Goals), and Paris Agreement on Climate Change

Supported DMCs in adopting the 4 global agreements

2018

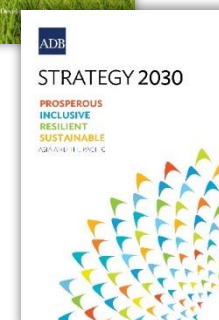
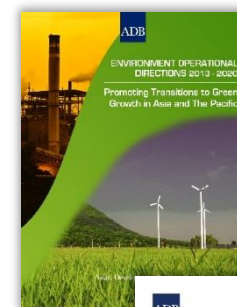
ADB Strategy 2030

Included enhancing environmental sustainability in Operational Priority 3, along with tackling climate change and building climate and disaster resilience

2019

ADB Action Plan for Healthy Oceans and the ADB Oceans Financing Initiative

ADB committed to expand its investments and technical assistance in ocean health and the blue economy to \$5 billion between 2019-2024



ADB's Strategy 2030: Vision

STRATEGY 2020
VISION

**An Asia and
Pacific
region free
of poverty**

**Expanded
vision**

STRATEGY 2030
VISION

**prosperous
inclusive
resilient
sustainable**

**ASIA AND THE
PACIFIC**

Aligned with global commitments



ADB Strategy 2030 : Operational Priorities



Addressing remaining poverty and reducing inequalities

human development and social inclusion, quality jobs, education and training, better health, social protection



Tackling climate change, building climate and disaster resilience, and enhancing environmental sustainability

low greenhouse gas emissions development, approach to building climate and disaster resilience, environmental sustainability, water–food–energy security nexus



Promoting rural development and food security

market connectivity and agricultural value chain linkages, agricultural productivity and food security, food safety



Fostering regional cooperation and integration

connectivity and competitiveness, regional public goods, cooperation in finance sector, subregional initiatives



Accelerating progress in gender equality

scaled-up support for gender equality; women's economic empowerment; gender equality in human development, decision-making, and leadership; reducing time poverty for women; strengthening women's resilience to shocks



Making cities more livable

integrated solutions, funding for cities, inclusive and participatory urban planning, climate resilience and disaster management



Strengthening governance and institutional capacity

public management reforms and financial sustainability, service delivery, capacity and standards





OP3: Tackling climate change, building climate and disaster resilience, and enhancing environmental sustainability





ENVIRONMENT SUSTAINABILITY ENHANCED

Focal Areas



A. Pollution control and
resource efficiency

B. Natural capital
management

A1. Air quality
management

A2. Freshwater
and marine
pollution
management

B1. Coastal and
marine resource
management

B2. Sustainable
tourism

B3. Sustainable
land, forest and
water
management

Sustainable
infrastructure design

Green businesses, jobs,
and technologies

Environmental
governance

Water–food–energy
security nexus

Cross-cutting issues

ADB's Action Plan for Healthy Oceans

ADB

ADB commits to expanding its investments and technical assistance in ocean health and the blue economy to

\$5 billion
between 2019–2024

FOCUS AREAS



Blue Economy

Creating inclusive livelihood and business opportunities in sustainable tourism and fisheries.



Ecosystem Management

Protecting and restoring coastal and marine ecosystems and key rivers.



Pollution Control

Reducing land-based sources of marine pollution including plastics, wastewater, and agricultural runoff.



Sustainable Infrastructure

Improving sustainability in port and coastal infrastructure development.



4. Actions and Innovations



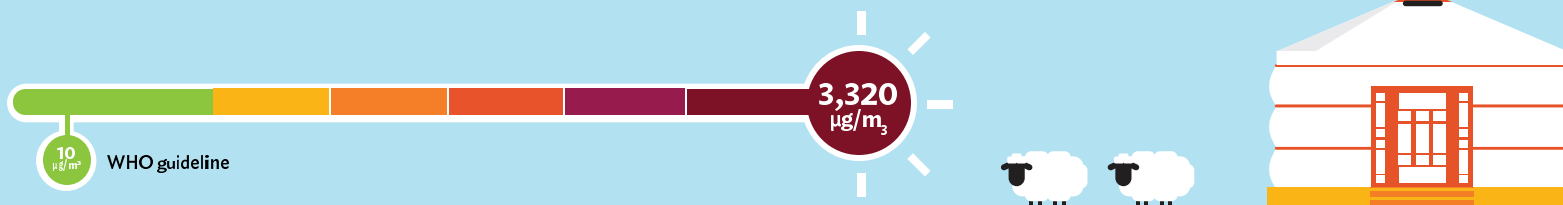
Financing Air Quality with Policy Based Lending

Ulaanbaatar, Mongolia

ADB

Ulaanbaatar Air Quality Improvement Program (2018)

AMOUNT: **\$130 million**



Ulaanbaatar Air Quality Improvement Program, Phase 2

AMOUNT: **\$160 million** (proposed) to include:



URGENT measures to support ban on raw coal burning by households

- Strengthening of National Committee's structures
- Establishment of improved fuels supply chain
- Nighttime tariffs for rollout of electric heaters to 40,000 households
- Filters installed in public coal-fired heat boilers



LONGER TERM measures to deliver green heating supplies in *ger* areas

- Certificate of green buildings
- Financed incentives for green housing
- Embedding green standards in urban master plan
- Long term plan on clean heat supply to *ger* areas

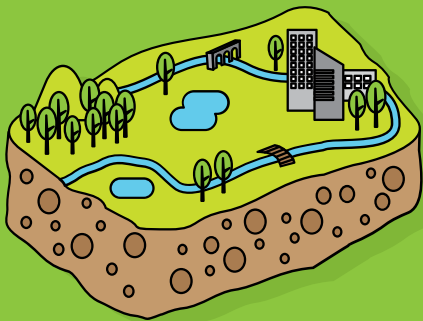


MEASURES aimed at reducing health impacts of air pollution

- National program of pneumococcal conjugate vaccinations
- Community engagement on mitigating indoor air pollution
- Upgrading air pollution monitoring systems



Building resilience through nature-based solutions



In Jiangxi Pingxiang “Sponge Cities” Project wetlands are flooded during heavy rainfall events and used as a park during normal water levels.

What Does It Take To Build Resilient Communities? Beetle





Quality Principles vs Traditional approach



Higher upfront costs



Long-term benefits



Environmental and
Financial Sustainability



Embedded Resilience



Building Quality Infrastructure



Consider Project Lifecycle



Build Resilience against Natural Disasters



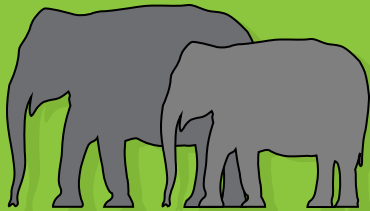
Strategic Planning



Integrate Environmental and Social considerations



Eco-sensitive planning and design



Wildlife corridors
designed for elephants
under the South Asia
Subregional Economic
Cooperation Road
Connectivity Project in
Bhutan





Elephants do use crossings

Monitoring data from "camera traps" indicates elephants and other species are using the wildlife crossings in Southern Bhutan.



5. Partnerships with universities, think tanks, and key institutions



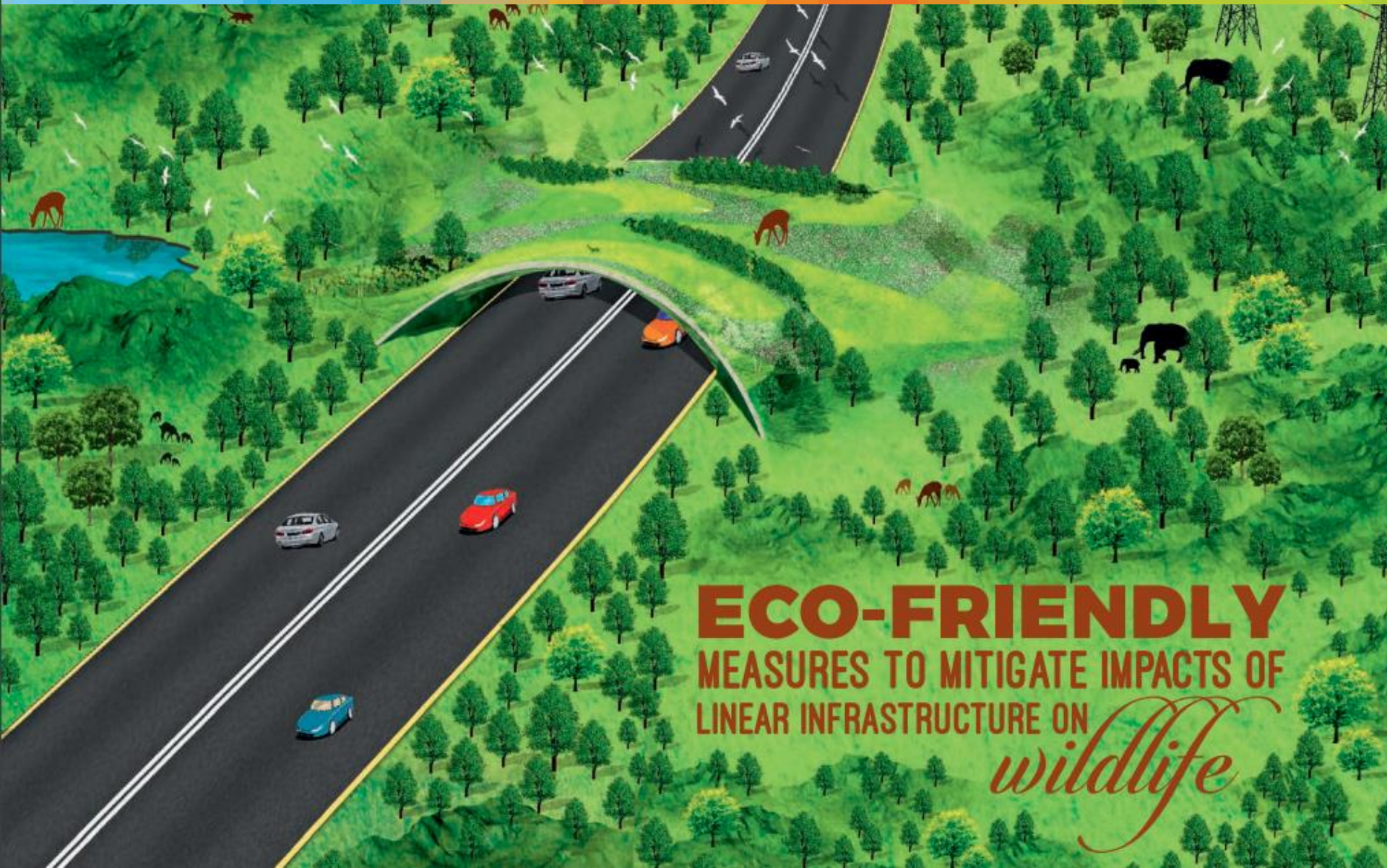
Partnership with Wildlife Institute of India

ADB



भारतीय वन्यजीव संस्थान
Wildlife Institute of India



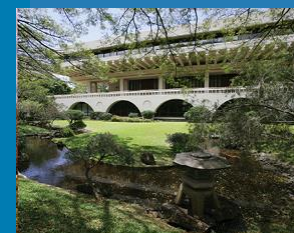
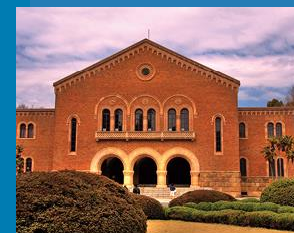
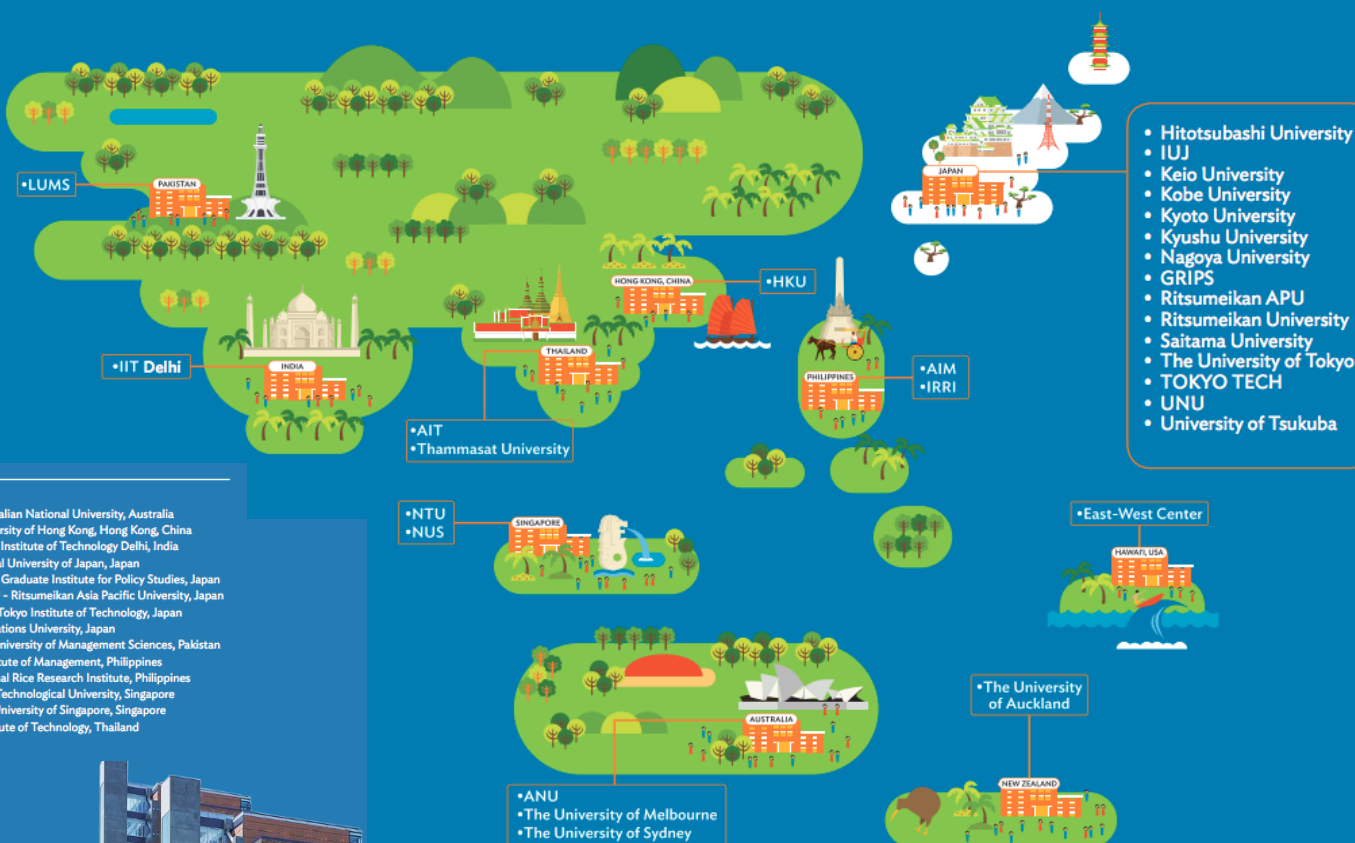


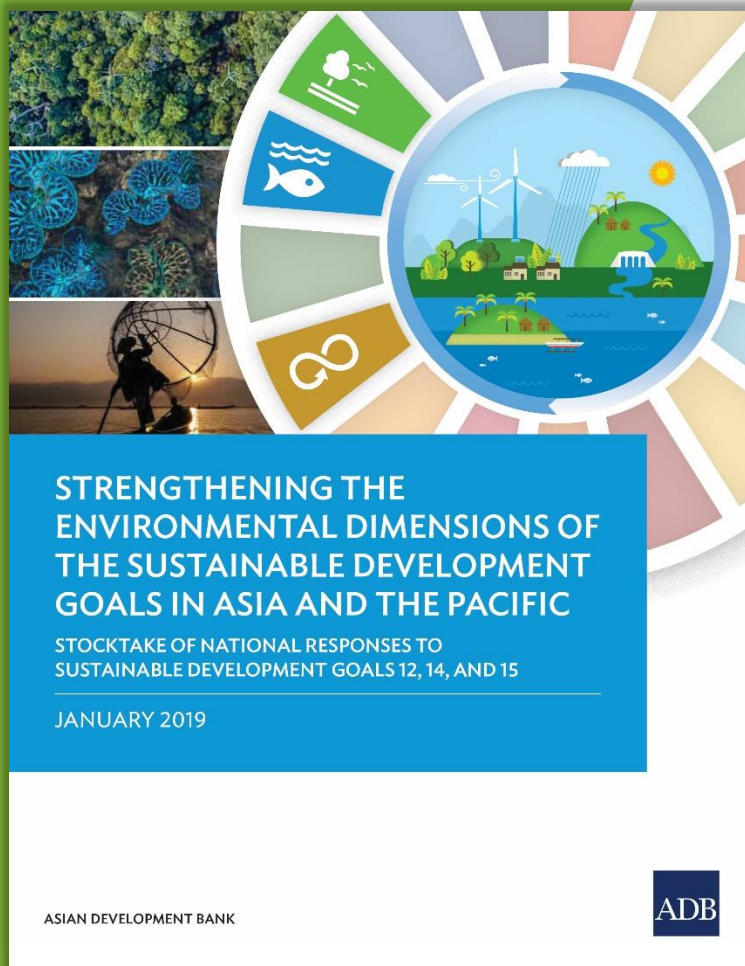
ECO-FRIENDLY
MEASURES TO MITIGATE IMPACTS OF
LINEAR INFRASTRUCTURE ON
wildlife

ADB- Japan Scholarship Program (JSP)

ADB

29 Partner Institutions across Asia and the Pacific





- Expanding the portfolio of clean development mechanism (CDM) projects
- Harnessing climate change mitigation initiatives for women in the Greater Mekong Subregion
- Regional stocktaking study and workshop on environment-related SDGs
- Project Preparation Support for Livable Cities project
- Technical support for the Japan Fund for the Joint Crediting Mechanism (JFJCM)

ADB and Yokohama City



- Partnerships on addressing solid waste management
- Annual Asia Smart City conference

Developing Environmental Law Champions



Building the capacity of environmental law professors and teachers in Asia and the Pacific is crucial to sustainable development.

Train-the-Trainer programs on innovative teaching methodologies for university professors and lecturers delivered at these host institutions:


- Cambodia, with Lao PDR participants (Faculty of Law and Public Affairs, Pannasastra University)
- India (GD Goenka University)
- Malaysia (National University of Malaysia)
- Myanmar (Department of Law, University of Yangon)
- Nepal with Bangladesh participants (Tribhuvan University)
- Philippines, University of Cebu College of Law
- People's Republic of China (Peking University Law School)
- Sri Lanka (Open University of Sri Lanka)
- Thailand (Faculty of Law, Chang Mai University)
- Vietnam (Hanoi Law University)



**Developing Environmental
Law Champions**

Strengthening the Capacity For Environmental and
Climate Change Laws in Asia and the Pacific

ADB Train-the-Trainers Program for Environmental Law Professors and Lecturers in Asia and the Pacific

A woman with dark hair tied back, wearing glasses and a purple patterned top, is seated and gesturing with her hands while speaking. The background is a bright, out-of-focus indoor space with large windows showing greenery outside.

And ever since then it was holding steady between 25 to 30

Topics and research needs



1. Ocean health

- Technologies and approaches to tackle marine plastic pollution



2. Circular economy

- Economic costs and benefits of a circular economy
- Policy and fiscal measures to drive change



3. Green business

- Approaches to make tourism sustainable
- Creating markets and incentives for sustainable agribusiness

4. Climate resilience

- The role of nature-based approaches

Thank You



+632 8632 4444



+632 8636 2444



tkimura@adb.org



<https://www.adb.org/themes/environment/main/>

