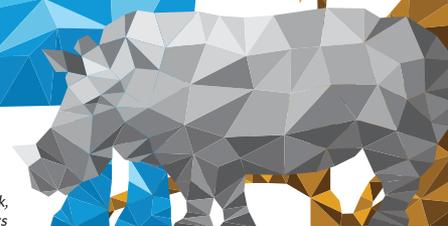
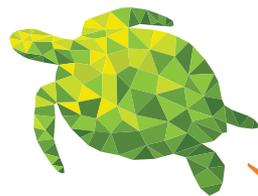


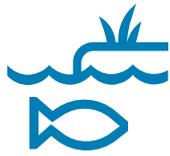
# Enhancing Environmental Sustainability in Asia and the Pacific

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## 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

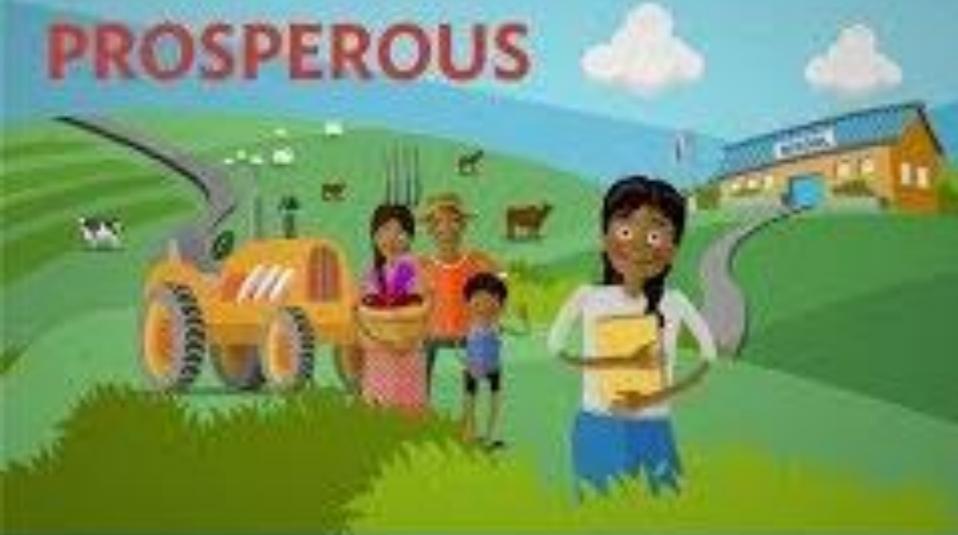
# 1. Asian Development Bank: What is Our Role?



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

ADB

**PROSPEROUS**



**INCLUSIVE**



**SUSTAINABLE**



**RESILIENT**

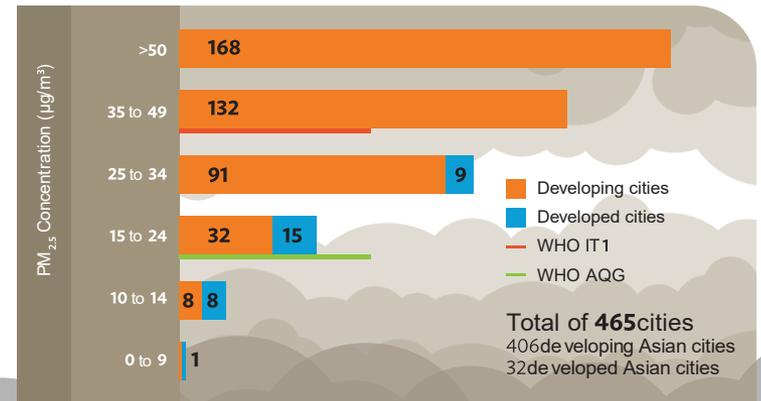


## 2. Critical Environmental Trends Shaping Asia and the Pacific

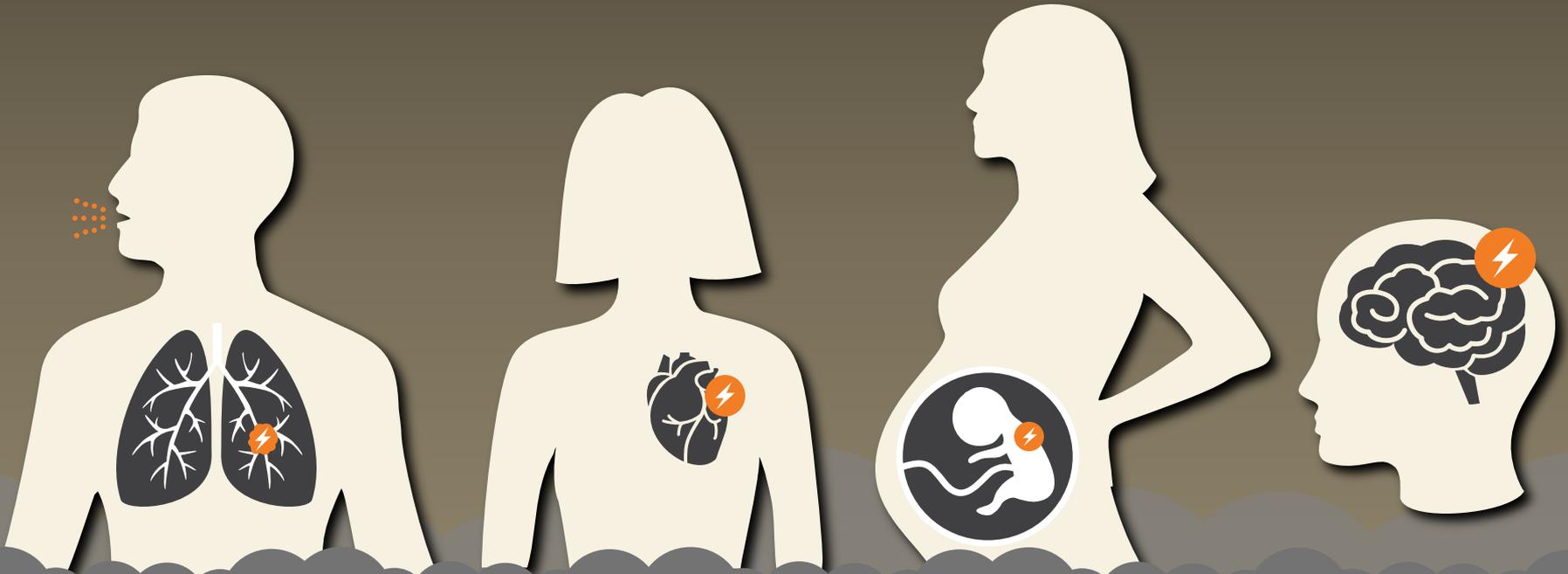


# Air pollution is choking Asian Cities.

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

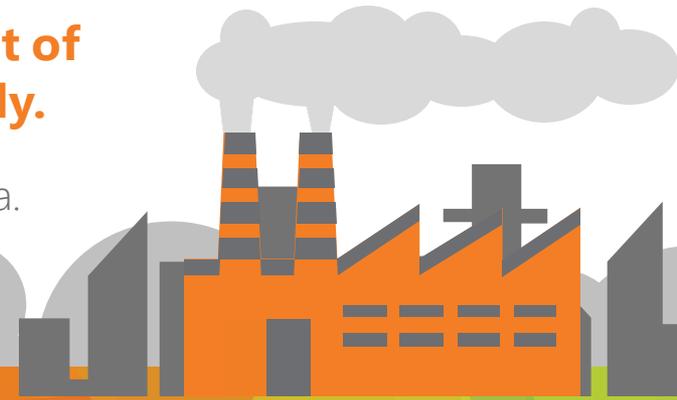


## Health Effects of Poor Air Quality (AQ)



# 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



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



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

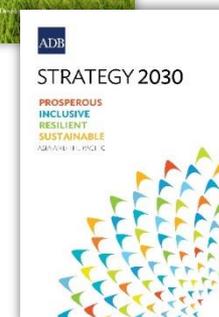
## ADB Strategy 2030

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





## 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

B3. Sustainable land, forest and water management

A2. Freshwater and marine pollution management

B2. Sustainable tourism

B1. Coastal and marine resource management

Sustainable infrastructure design

Green businesses, jobs, and technologies

Environmental governance

Water–food–energy security nexus

Cross-cutting issues

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

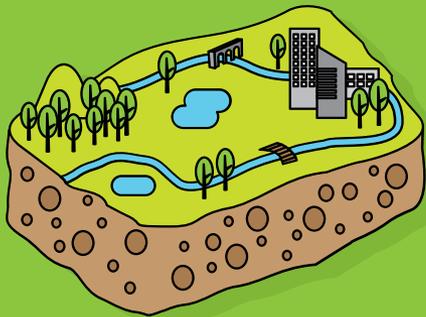


**MEASURES** aimed at reducing health impacts of air pollution

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

The logo for the Asian Development Bank (ADB), consisting of the letters 'ADB' in white serif font on a dark blue square background.

# Building resilience through nature-based solutions

A photograph of a flooded wetland area. In the foreground, there is a grassy bank. The middle ground is a large, shallow body of water that has flooded a park area. In the background, there is a row of young trees supported by wooden stakes, and some buildings are visible in the distance under an overcast sky.

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





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**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

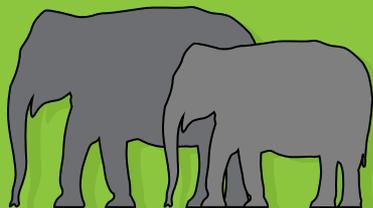


Integrate Environmental and Social considerations



ADB

# Eco-sensitive planning and design



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



The logo for the Asian Development Bank (ADB), consisting of the letters 'ADB' in white, serif font, centered within a dark blue square.

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## 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



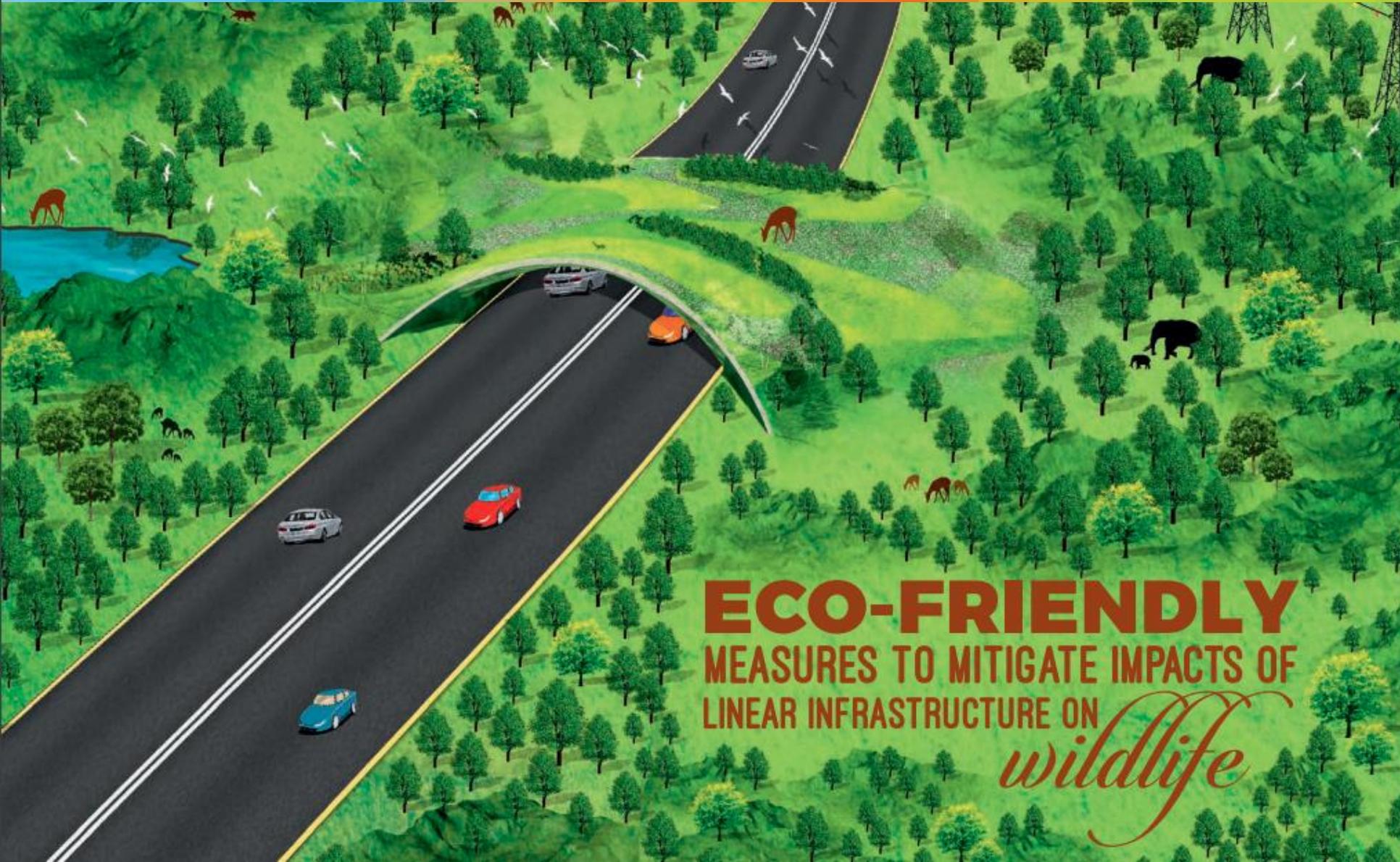
# Partnership with Wildlife Institute of India

ADB



भारतीय वन्यजीव संस्थान  
Wildlife Institute of India



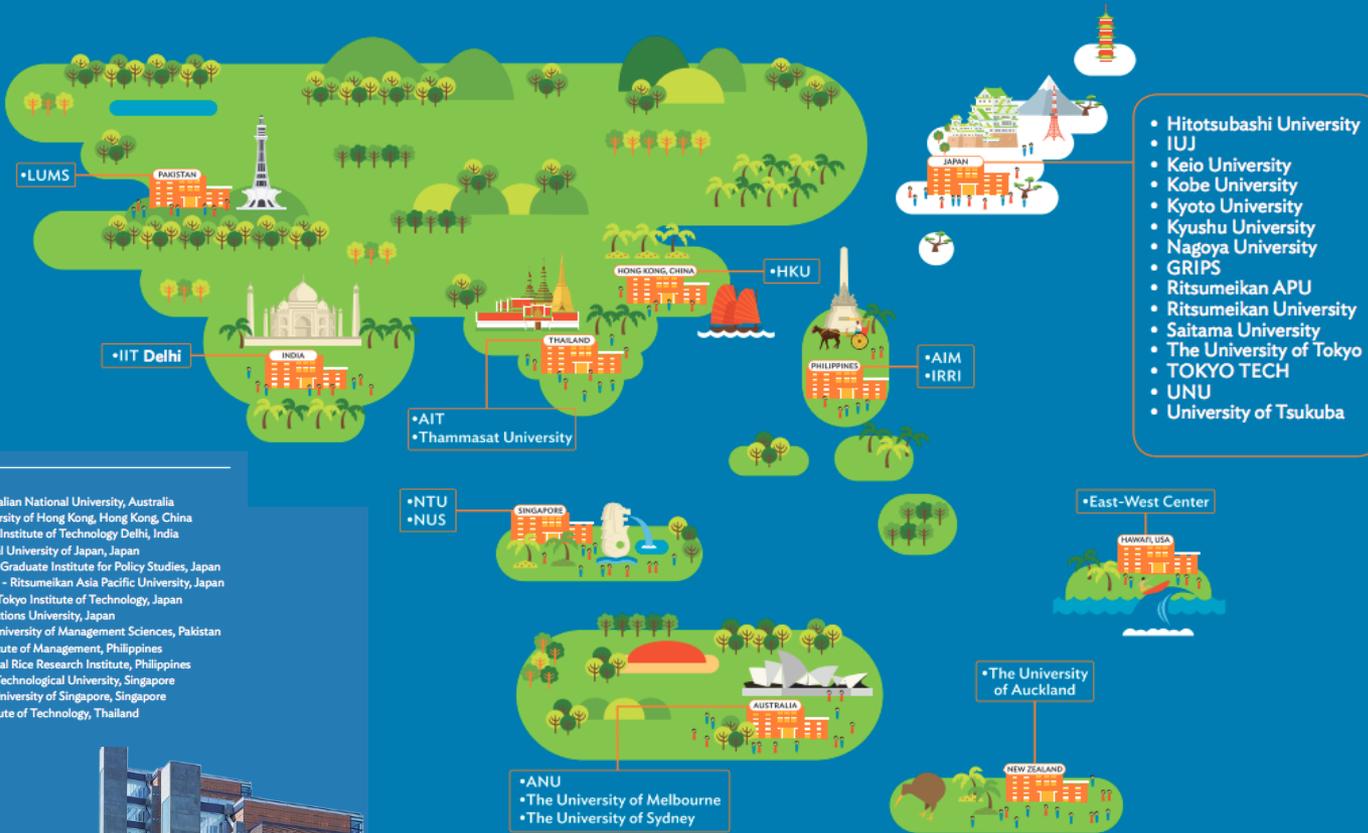


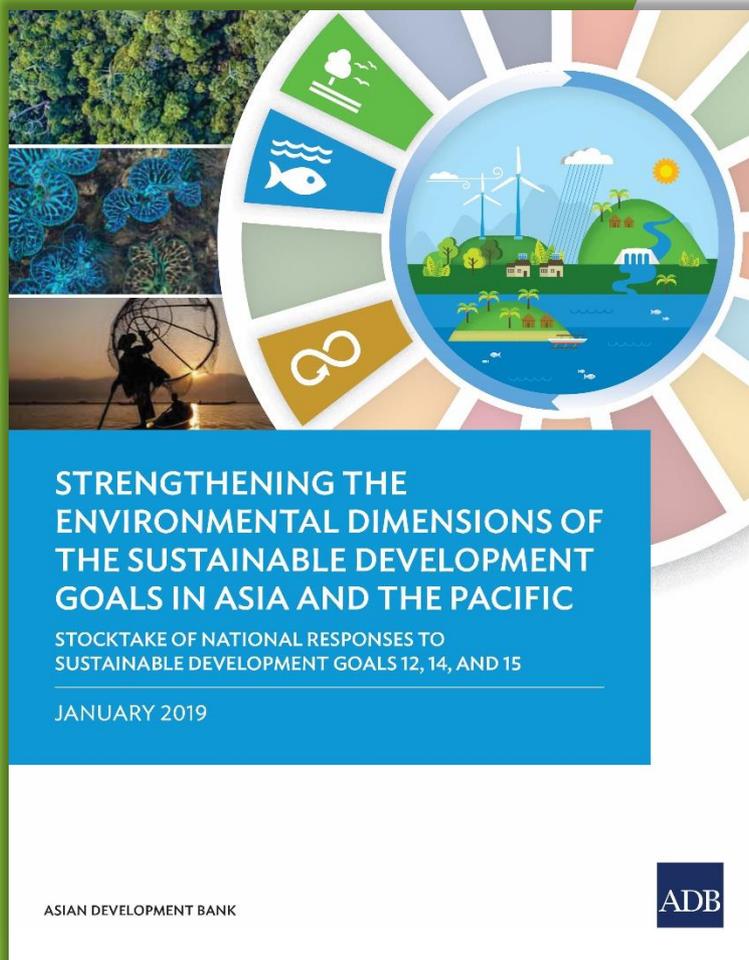
**ECO-FRIENDLY**  
MEASURES TO MITIGATE IMPACTS OF  
LINEAR INFRASTRUCTURE ON  
*wildlife*

# ADB- Japan Scholarship Program (JSP)



## 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

ADB

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

ADB

A woman with dark hair pulled back, wearing glasses and a purple patterned top, is seated and speaking. She has her hands raised in a gesturing motion. The background is a bright, indoor setting with large windows showing greenery outside.

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



## 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



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

