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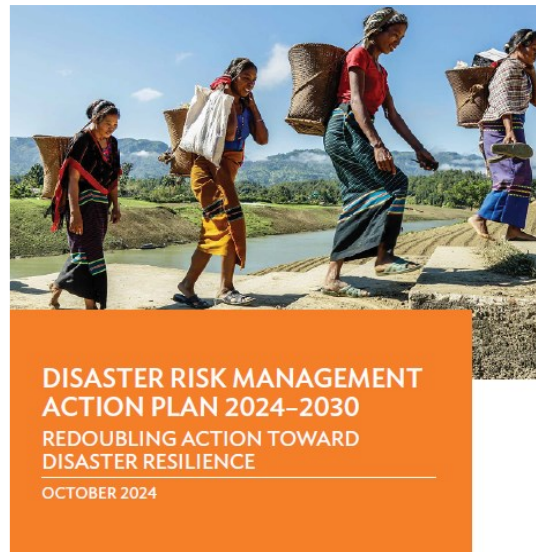
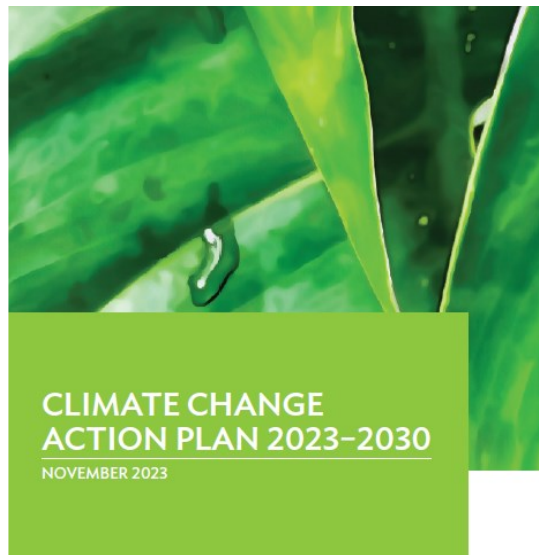
Climate Change, Disaster Risk Management and Environment

ALEX HARVEY
Senior Climate Change Specialist, ADB



Climate Change and Sustainable Development Department (CCSD)

- Climate Change, Disaster Risk Management, Environment and Carbon Markets
- Technical support to Developing Member Countries and operational sector teams





Asia and the Pacific: Climate Change Context

- Most disaster-hit region from weather, climate and water-related hazards, with rapidly escalating and compounding hazards, such as more intense heatwaves, heavier rainfall, rising sea level, flooding, glacial melt, and other weather extremes.
- The region contributes to over half of global annual greenhouse gas emissions.
- Massive investments are needed to help the region reduce emissions and urgently scale up resilience to the impacts of climate change.

From 1991-2024, climate-related disasters in Asia and the Pacific resulted in:



551,174 deaths



5.3 billion affected people



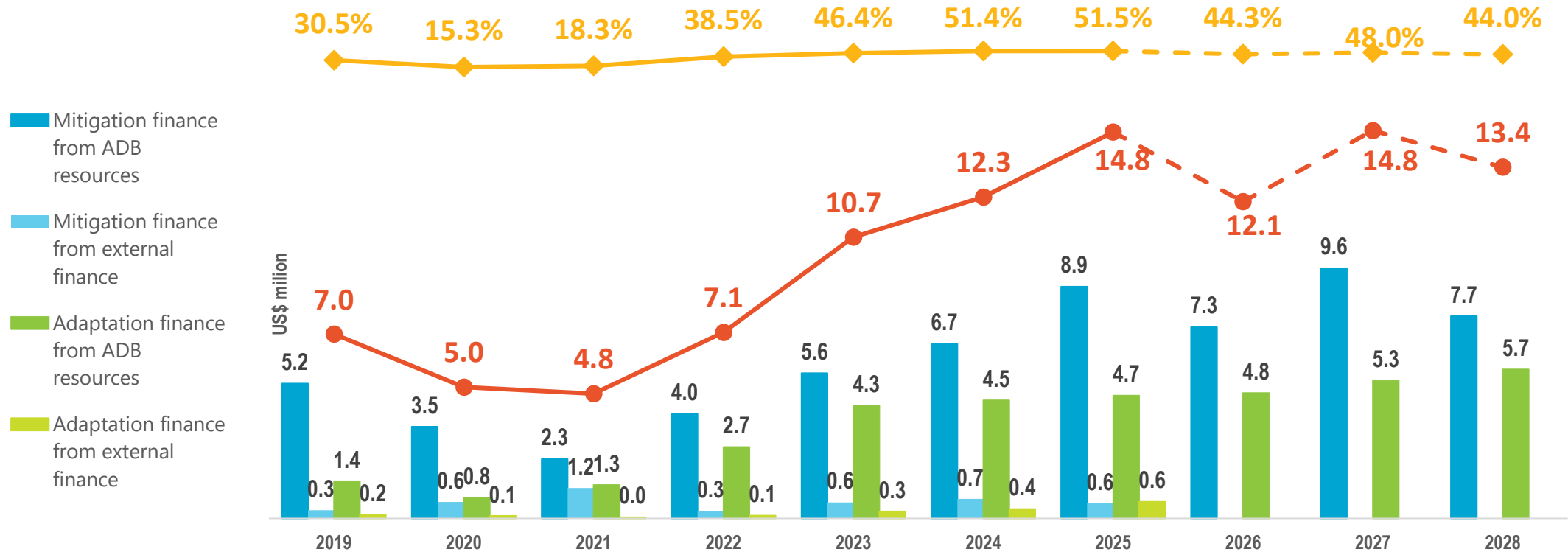
about \$1.6 trillion in loss and damage

Climate Action

- Climate finance to reach 50% of the total annual committed financing volume by 2030 to ensure a cumulative achievement of more than \$100 billion in climate finance from 2019-2030.
- Fully aligned ADB sovereign and nonsovereign operations with the goals of the [Paris Agreement](#) (since 1 July 2023).

ADB Climate Finance based on Commitments

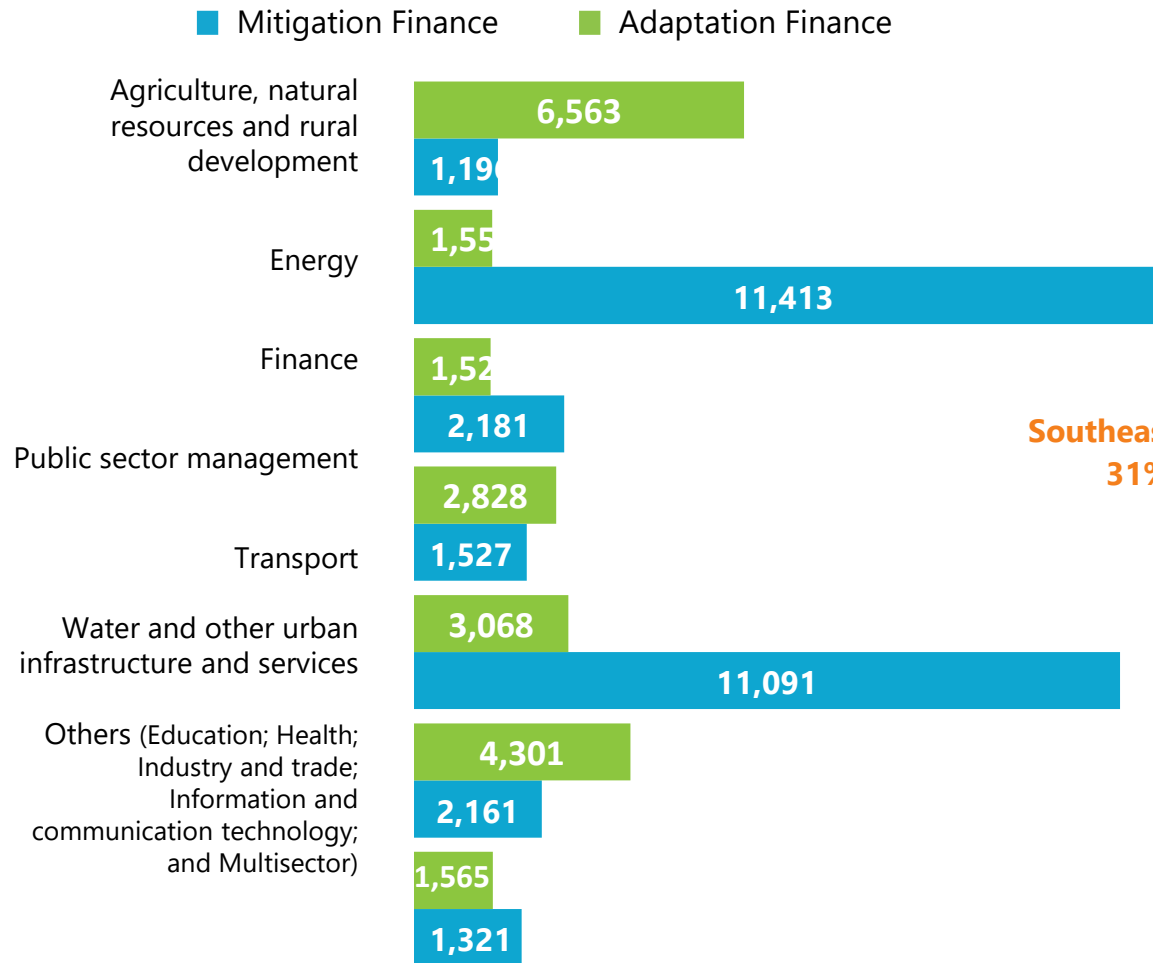
2025 Climate Finance	Mitigation	Adaptation	TOTAL
ADB resources	8,857	4,692	13,549
External resources	572	637	1,209
TOTAL (In \$ millions)	9,429	5,329	14,759



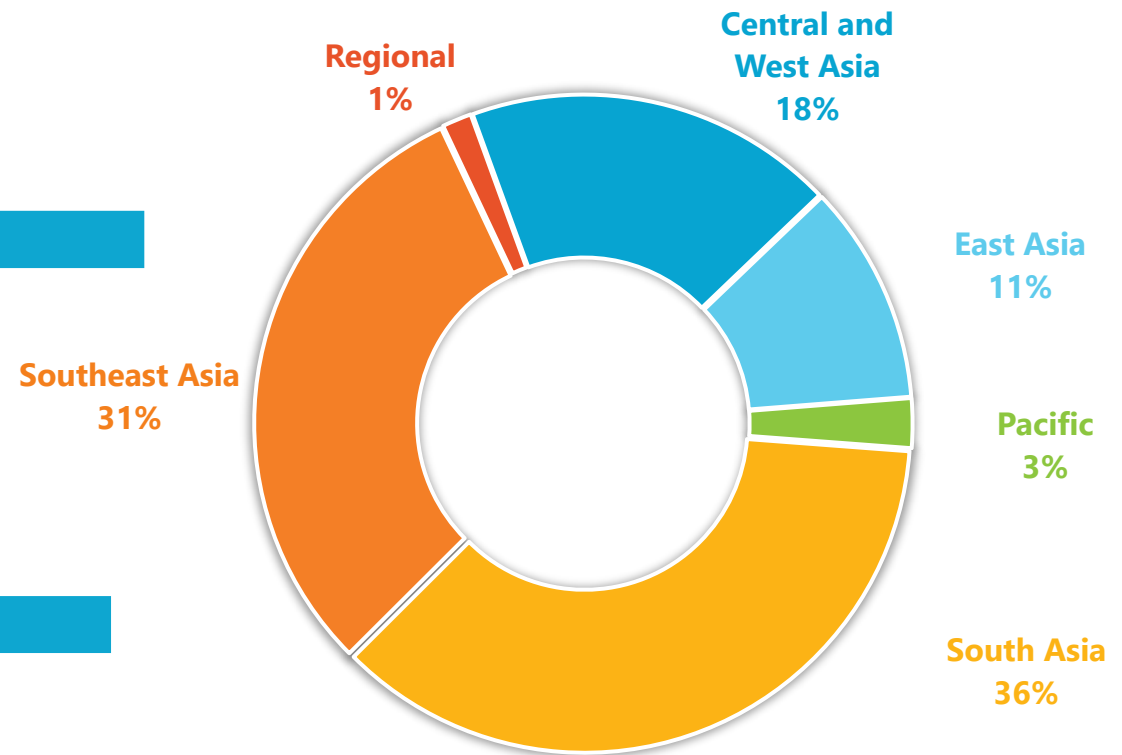
Notes:

- i) Values for 2019 to 2025 Include climate finance from investments, technical assistance, and direct charges.
- ii) 2026 to 2028 amounts are estimates from WPBF 2026–2028 for climate finance from OCR, COL, and ADF only.
- iii) The line Share of climate finance to committed amount (ADB resources) refer to the share of climate finance from OCR, COL, and ADF to total OCR, COL, and ADF commitments

ADB climate financing, 2019–2025 (\$ million)



ADB climate financing by region, 2019–2025 (\$ million)

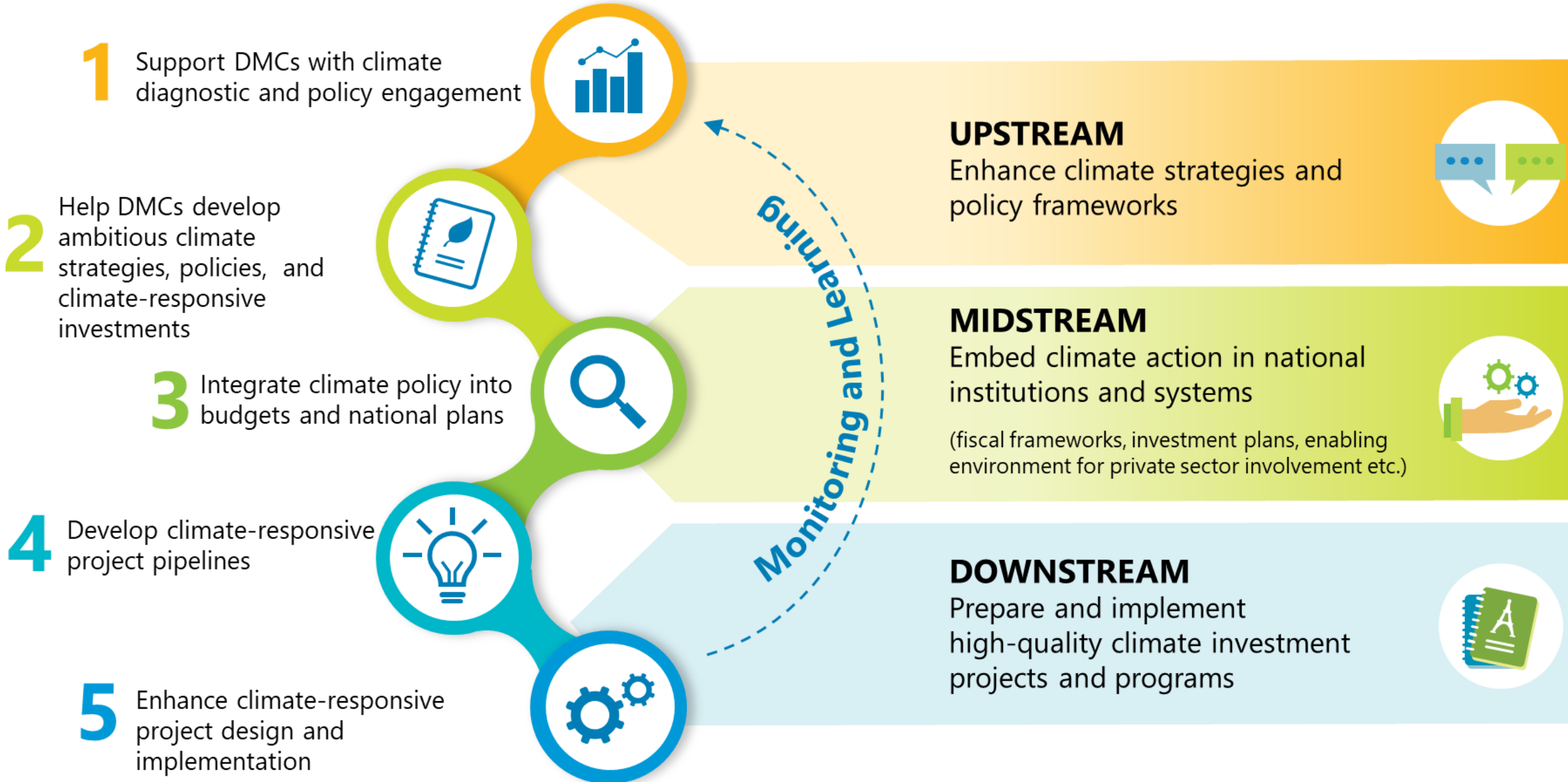


Source: Asian Development Bank.

Notes: 1. The graph represents climate finance for investments, TAs, and direct charges.

2. The amounts in the chart include climate finance from ADB resources, and external resources that are administered by ADB.

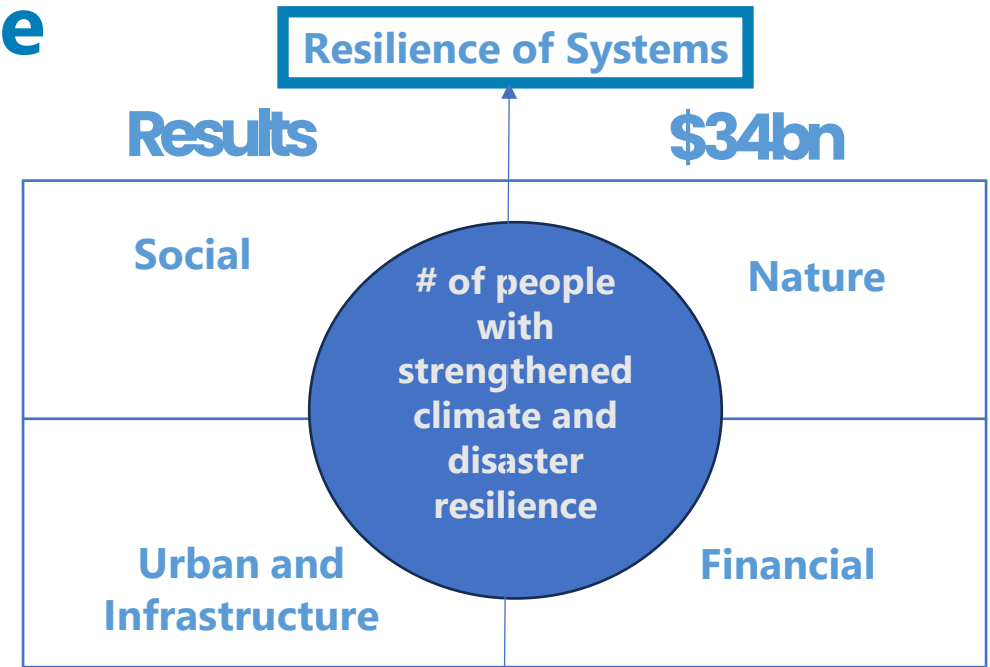
Support for ADB DMCs' climate action



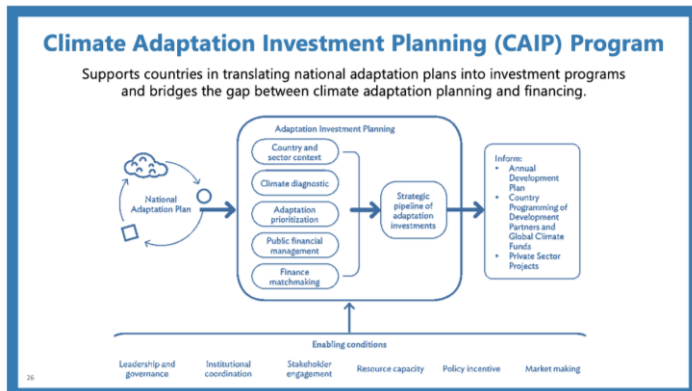
Climate Adaptation and Resilience

Asia and the Pacific requires an estimated \$102 billion to \$431 billion per year to adapt to global warming (*Asia-Pacific Climate Report 2024*).

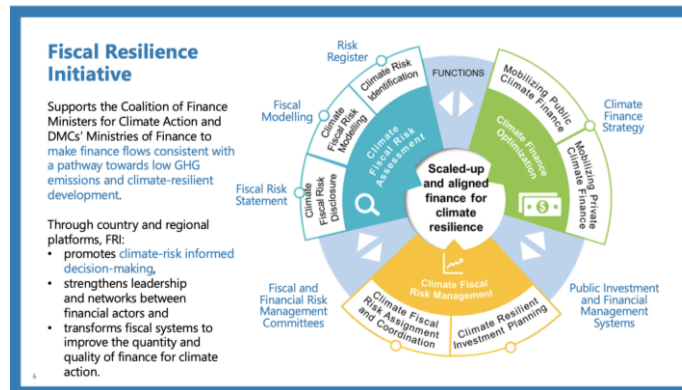
Of the \$100 billion climate finance ambition, ADB expects to commit 34 billion for climate adaptation and resilience from its own resources between 2019–2030.



Upstream (Investment Planning)



Midstream (Country Systems)



Downstream (Investments)





Transition as Transformation: Empowering DMCs for Low Carbon Futures

Asia and the Pacific is at the center of the global low carbon transition

Scale and pace of the transition will be disruptive

Forward-looking, well-coordinated policy action is essential to manage the region's exposure to transition risk

The transition offers significant economic, social, and environmental opportunities

Asia and the Pacific is ideally positioned to benefit from the low-carbon transition



The Challenge

How can we best support DMCs in their transition?

Enabling countries to:

Reduce emissions in line with their commitments under the Paris Agreement

Identify and integrate transition risk into policy planning

Mitigate climate transition risk through policies and investments

Identify and unlock new social and economic opportunities

Institutional foundations

Out of the fossil-fuel economy

Into the green economy

Leaving no one behind



Low-carbon pathways to prosperous and resilient development

1

Direct support to countries to strengthen the enabling environment

- Analytical work eg- Transition Risk Assessments
- Policy Support – eg NDC financing strategies, Just Transition Policy Frameworks
- Institutional Strengthening – eg SOE JT framework, Government capacity building

2

Working across ADB on projects and special initiatives

- Support to ADB sector teams – eg EE, critical minerals, industrial decarbonization, green ports, livestock management, green buildings
- Work with PSMG, Finance on policy reform (PBLs), FI financing
- Work with thematic teams – eg gender on JT, environment on air quality

3

Mobilizing finance for LCT

- Vertical Funds – CIF ACT, CIF industrial decarbonization, GCF
- Donors and Trust Funds –eg GMH, ETMPF
- Transition Finance – eg JT bonds

4

ADB internal processes, frameworks and guidance

- Framing – ambition in time of uncertainty
- ESF
- GHG Impact
- Transition Risk
- JT Institutional Process (WG)
- Energy Policy
- Mitigation Finance

5

External engagement and partnerships

- NDCP Steering Committee
- MDB CAG – PCCE, JT
- FF Roadmap Process
- UNFCCC – MWP, JTWP



**Three
Key
Initiatives**

Just Transition Support Platform

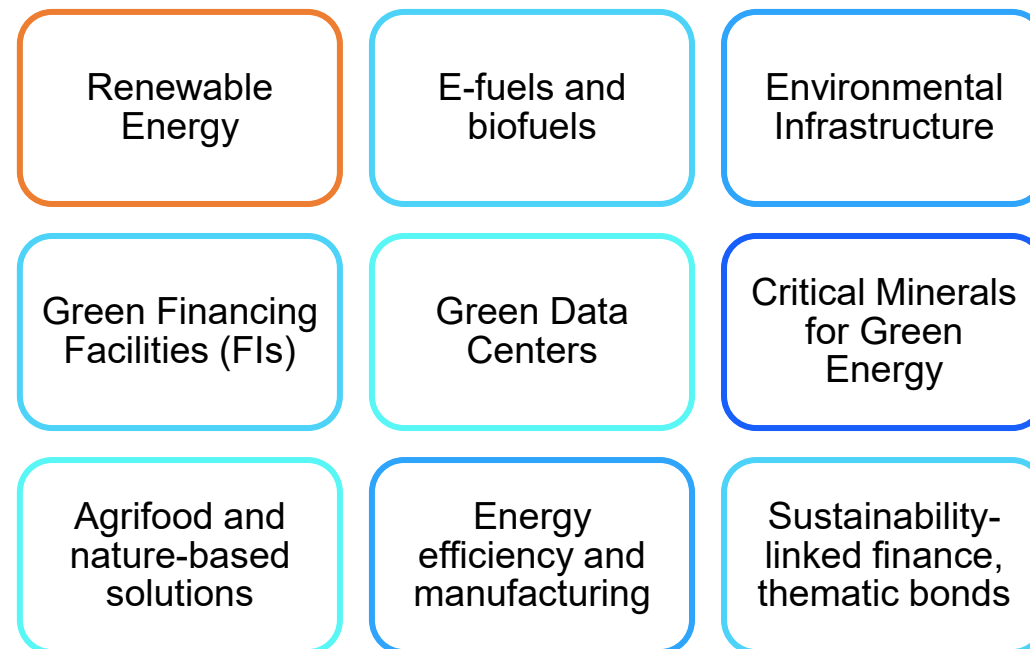
**SCALE –
SLCP Accelerator for a Low Carbon Equitable Transition**

Climate Advance



Private Sector Climate Transition

- Challenge: to unlock investment at scale, create investable pipelines of projects that support transformational change.
- This requires combined involvement of countries, the private sector and DFIs, recognizing:
 - Significant investment gaps on all levels.
 - >90% of investment will come from private sources
- ADB is shifting toward private sector development with a strong pipeline. Expected growth across key sectors:
 - Due diligence requirements technology, engineering, climate/energy
 - Transition planning
 - Climate risk assessment and management



Climate-related Funds with EU countries as partners

1 **ADB Ventures Investment Fund 1 (VIF1)**
Finland

2 **Asia-Pacific Climate Finance Fund (ACIiFF)**
Germany

3 **Cities Development Initiative for Asia Trust Fund (UFPF- CDIATF)**
Austria
Germany
Spain

4 **Clean Energy Fund (CEFPF-CEF)**
Germany
Spain
Sweden

5 **Energy Transition Mechanism Partnership Trust Fund (ETMPTF)**
Germany

6 **Climate Action Catalyst Fund (CACF)**
Sweden

7 **Community Resilience Partnership Program Trust Fund (CRFPF-CRPPTF)**
France

8 **Ireland Trust Fund for Building Climate Change and Disaster Resilience in Small Island Developing States (BCCDR)**
Ireland

9 **Spanish Cooperation Fund for Technical Assistance (TAGF-SPA)**
Spain

10 **Water Innovation Trust Fund (WFPF-WITF)**
Austria
Spain

11 **Water Resilience Trust Fund (WFPF-WRTF)**
Netherlands

12 **European Union-ASEAN Catalytic Green Finance Facility Trust Fund**
European Union



Other engagement with EU Member Countries on climate change include:

- EU countries in ADF14;
- Like-minded group;
- NDC-Partnership;
- Coalition of Finance Ministers for Climate Action – Finland, Denmark & Croatia;
- G7 & G20 -France, Italy & Germany







ADB's flagship climate initiatives



Partnerships are critical for climate informed development

The scale and complexity of climate change is more than any single institution can address.
Finance and knowledge partnerships and engagement with climate science entities are critical.

Examples how climate action constraints are being addressed through partnerships

Limited access to innovative climate finance	Slow transition from fossil fuels to clean energy	Inadequate adaptation investments	Lack of climate and disaster risk informed investments	Policy, capacity, knowledge barriers for low-carbon and climate resilient development	Capacity and financial barriers to carbon market
 Innovative Finance Facility for Climate in Asia and the Pacific Mobilizes climate finance at scale through a guarantee and grant mechanism.	 Energy Transition Mechanism A market-based approach to accelerate the transition from fossil fuels to clean energy.	 Climate Adaptation Investment Planning Program Supports DMCs in translating NAPs into investment programs Community Resilience Partnership Program Scales-up climate adaptation investments at the community level,	 Building Adaptation and Resilience in the Hindu Kush Himalayas Strengthens resilience through multi-hazard risk assessment and support governments and private sector with enhanced risk management tools. Fiscal Resilience Initiative Strengthens the leadership of Ministries of Finance in addressing climate change risks.	 Country Platforms Brings together multiple actors for long-term programming to securing financial and technical assistance climate action, e.g., Bangladesh Country Climate Development Partnership Just Transition Support Program Builds capacities to strategically plan, implement and finance just transition	 Carbon Market Program Provides access to carbon finance to catalyze investments in low carbon technologies and solutions and enhance climate mitigation actions through support for carbon market development.

Partnerships with peer MDBs through joint-MDB WGs



Multilateral Climate Funds

ADB is the first organization globally in providing access to the Climate Investment Funds (CIFs) and among the top three for the Green Climate Fund (GCF). ADB mobilized ~\$ 3.3 billion for flagship programs and regional initiatives in its DMCs.



ADB has channeled over **\$1.696 billion in GCF funding** across 17 projects, establishing itself among the **top accredited entity** in providing access to GCF resources.



ADB has channeled over **\$1.6 billion in CIF funding**, becoming the **top entity globally** in providing access to CIF resources.

Initiatives on the GCF

- **ASEAN Catalytic Green Finance Facility (ACGF)** focused on green recovery and mitigation projects in Southeast Asia.
- **Community Resilience Partnership Program (CRPP)** promotes adaptation efforts, enhancing climate resilience in vulnerable communities across Asia and the Pacific.
- **E-Mobility Program** supports the transition to sustainable transport systems through electric mobility, fostering a cleaner, low-carbon future.
- G2F Glacier to Farms

ADB - GCF Projects in the Pipeline

- **Regional Programmatic Approach** for Climate Action (Pacific), \$250 million GCF Financing

Initiatives on the CIFs

- **PHI / INO: Accelerating Coal Transition Program:** \$500 million investment plan approved.
- **Renewable Energy Integration & Nature, People, Climate Programs:** Investment plans advanced for India (\$70 million) and Fiji (\$70 million).
- **CIF Industry Decarbonization Program:** ADB supported 8 DMCs in the preparation of Expressions of Interest to access up to \$250 million in funding for industry decarbonization. Uzbekistan and Türkiye where both invited to develop investment plans to access up to \$250 million in CIF concessional resources.



MDB Long Term Strategy (LTS) Program

At COP28, MDBs jointly launched the LTS Program (LTS-P), hosted by the World Bank’s Climate Support Facility, responding to the COP27 call “to contribute to significantly increasing climate ambition using the breadth of their policy and financial instruments for greater results”. The LTS-P is currently being operationalized and ready to provide LTS support to countries.

Expected Results of the LTS-P



Development and operationalization of LTSs beginning with at least 20 high priority countries



Enhance consistency with short-medium term commitments and plans (NDCs) that become enablers of long-term sectoral transformations



Strengthened in-country institutions, technical capacity and increased cross-sectoral coordination to develop, enhance, finance or implement LTSs



Increased collaboration, better-informed coordination and sharing of best practices and lessons learnt among MDBs, DFIs and institutional partners



Increased flow of climate finance by informing public and private investment decisions and building investment pipelines

ADB support to DMCs:

Upstream: ADB is supporting DMCs’ to reflect climate ambitions in NDCs, LTSS and NAPs and to inform Country Program Strategy and Country Programming investment decisions that support low-carbon and climate-resilient development.

Mid-stream: ADB is supporting integration of climate considerations into country-systems and policy interventions. The up- and midstream work is critical to developing climate-focused sovereign and non-sovereign investment pipelines where the downstream work will achieve high-quality climate outcomes.





Glaciers to Farms (G2F) Program



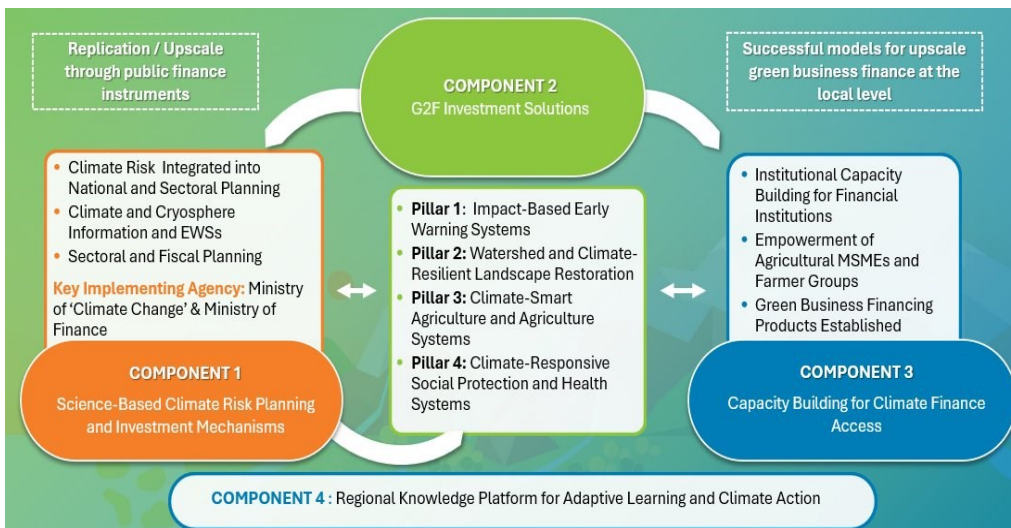
Resilience of mountain downstream communities and food systems. Focuses on water management, sustainable land practices, agricultural value chains and climate-resilient social infrastructure and communities through health and social protection systems and disaster resilience.



Integrated and Programmatic Approach: G2F links upstream climate risk data with downstream investment to fill the huge financial gap for adaptation and resilience in CWA



Four Interlinked Components



Multicountry / Regional Initiative: G2F spans nine DMCs across Central Asia (5), South Caucasus (3), and Pakistan



Long-term Finance for Resilience: \$3.5Billion from ADB's own resources and co-financing, including GCF (\$250M) from 2026-2035 (10 years)



Call for Partnership: GCF provides concessional and grant financing to ADB's resources for transformative adaptation and resilience measures in most vulnerable sectors



Opportunities





CCSD Consultancy Recruitment Opportunities ⁽¹⁾

TA no.	TA Title	Detail	Total TA
10397	Supporting Climate-Smart Urban Development through City Climate Action	PAK - Firm for C-CAP preparation for Sindh Province	\$200,000
10397	Supporting Climate-Smart Urban Development through City Climate Action	BAN - If NOL received by April, planning for the firm/individuals to be contracted can begin	\$500,000
10397	Supporting Climate-Smart Urban Development through City Climate Action	UZB - pending response to request for additional funding from EAKPF (expected response in April). Activities include: firm engagement extension, TA Coordinators (UZB and HQ) extensions, 2 additional firms, 7 international individual consultants, 2 national individual consultants,	\$997,800
10673-REG	Climate-Resilient Infrastructure Standards and Practices	REG: 2 Firms (Direct contracting); Individual experts at international and national level including selected resource persons to do technical work and workshop related engagements. National experts will be engaged from PHI for the TA Coordinator assignment and one country coordinators from CAM and MON.	\$635,500
10664-REG	Investing in Resilience to Extreme Heat: Sector and Gender-Responsive Adaptation Solutions	Engagement of Firm at international level using QCBS or SCQS selection; engagement of individual experts at international and national level including selected resource persons to do technical work and workshop related engagements. National experts will be engaged from PHI for the TA Coordinator assignment and one country coordinators from BAN, THA, and TIM.	\$822,000



CCSD Consultancy Recruitment Opportunities⁽²⁾

TA no.	TA Title	Detail	Total TA
---	Enhancing programmatic and integrated solutions for climate resilience (EPIC) in Sri Lanka (Subproject 3) under cluster TA 0080 Strengthening Programmatic and Evidence-Based Approaches for Resilience and Sustainability in South Asia (SPEAR)	Preparing the TAR of the subproject. Target approval June 2026. Planning to engage local and/or international individual experts to conduct coordination, technical work, resource person and workshops. GIS expert, climate expert, subject matter specialists and coordinator will be engaged for Sri Lanka.	\$400,000
10326-REG	Supporting the Implementation of ADB's Climate Change Action Plan Through Enhancing Climate Finance Plans	Firm for the updating of Asia Pacific Climate Finance Landscape	\$40,000
10326-REG	Supporting the Implementation of ADB's Climate Change Action Plan Through Enhancing Climate Finance Plans	Consultant for Climate Finance Data Systems	\$25,000
10125-REG	Operationalizing the Community Resilience Partnership Program	Individual consultants or firm to conduct mid-term evaluation of the Community Resilience Partnership Program Trust Fund and Investment Fund	\$200,000



Nonsovereign (1)

TA title	Area - nonsovereign	Status
Insurance Sector Strategy Study, Sector Mapping, and Capacity Building (Target DMCs)	The study will assess the enabling environment and regulatory framework for equity and subordinated debt investments in the insurance sector and will map market opportunities, key players, and principal risks to inform ADB’s potential investment engagement. The study will also support a capacity building program for PSOD and ORM on insurance business models and risk assessment.	For advertisement in 2026
Securitization Market Assessment and Internal Rating Toolkit Development	The study will assess the regulatory preparedness, market liquidity, and enabling infrastructure for securitization and credit risk transfer instruments across selected ADB developing member countries and identify where ADB has the strongest opportunity to engage. The study will benchmark comparable transactions and approaches used by other development finance institutions, analyze high-impact use cases (e.g., MSMEs/ WMSMEs, affordable housing, climate and digital finance), and translate these findings into practical recommendations for ADB investment teams.	For advertisement in 2026
Unlocking Private Credit Fund Debt Financing for Inclusive Growth in ADB DMCs	The study will assess private credit fund markets across emerging Asia, benchmark development finance institution approaches, and identify viable structures for ADB to deploy senior, mezzanine, or blended debt investments.	For advertisement in 2026



Nonsovereign (2)

TA title		Status
Strengthening PSOD's Ex-Ante Development Impact Assessment Framework (Ex-Ante 2.0)	The project will review PSOD's current Ex-Ante Development Impact Assessment Framework and design an upgraded Ex-Ante 2.0 methodology by strengthening priority dimensions (including market and climate), standardizing indicators, and refining the scoring approach to improve credibility, consistency, and usability.	For advertisement in 2026
Thought leadership and Communications Consulting Firms	Support strategic objective of strengthening its positioning as a preferred partner for private sector clients and regional member countries through consistent, high-quality communications and effective delivery of priority engagements led by the Private Sector Operations Department (PSOD).	For advertisement in 2026
Private Sector Blended Finance and Parallel Funds Fund Specialist (2027: Phase 2)	The specialist will focus on debt structuring, the selection and engagement of asset managers, and supporting fundraising activities with donors or contributors, development finance partners, institutional investors, and other sources of catalytic or commercial capital.	For advertisement in 2026



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Thank you

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Additional material



CCSD Climate Change TAs

TA no.	TA Title	Total TA ('000)	Completion date
10173	Provincial and Municipal Climate Change Adaptation Capacity Improvement	524.80	31 Dec 2026
10039	Operationalizing Paris Alignment in the Country Programming Processes	1,700.00	31 Mar 2026
10048	Adaptation Metrics to Scale Up and Align Investment with Climate-Resilient Development	1,000.00	31 Dec 2026
10049	Enabling a Just Transition to Low-Carbon and Climate-Resilient Economies and Societies in Asia and the Pacific	3,630.00	31 Dec 2026
10098	Bridging the Gap Between Climate Adaptation Planning and Financing	4,992.63	31 Dec 2026
10125	Operationalizing the Community Resilience Partnership Program	4,707.94	31 Jul 2027
10172	Building Adaptation and Resilience in the Hindu Kush Himalayas-Bhutan and Nepal	6,520.00	28 Oct 2028
10326	Supporting the Implementation of ADB's Climate Change Action Plan Through Enhancing Climate Finance Plans	2,707.94	31 May 2027
10379	Supporting Climate Adaptation Strategy for Atoll Nations	932.94	31 Dec 2027
10397	Supporting Climate-Smart Urban Development through City Climate Action Planning	2,000.00	30 Sep 2027
10664	Investing in resilience to Extreme Heat: Sectoral and Gender Responsive Adaptation Solutions	1,000.00	30 Nov 2027
6539	Investing in Climate Change Adaptation through Agroecological Landscape Restoration: A Nature-Based Solution for Climate Resilience	2,180.00	31 Oct 2025
6629	Improved Decision-Making for Climate Resilient Development in Asia and the Pacific	2,150.00	31 Oct 2025
6933	Identifying Climate Adaptation Investment Priorities	1,000.00	31 Dec 2025
9395	Support the Implementation of the Asia-Pacific Climate Finance Fund	1,375.00	31 Dec 2026
9414	Supporting Adaptation Decision Making for Climate Resilient Investments	4,299.98	31 Jul 2026
9695	Establishing a Support Facility for Article 6 of the Paris Agreement	7,776.08	31 Dec 2026
9700	Sustaining Climate and Disaster Risk Resilient and Low Carbon Development in South Asia	3,551.10	30 Nov 2025
9716	Supporting Ambitious Climate Action through Implementation of Developing Member Countries' Nationally Determined Contributions	6,400.00	31 Dec 2025

Disaster Risk Management



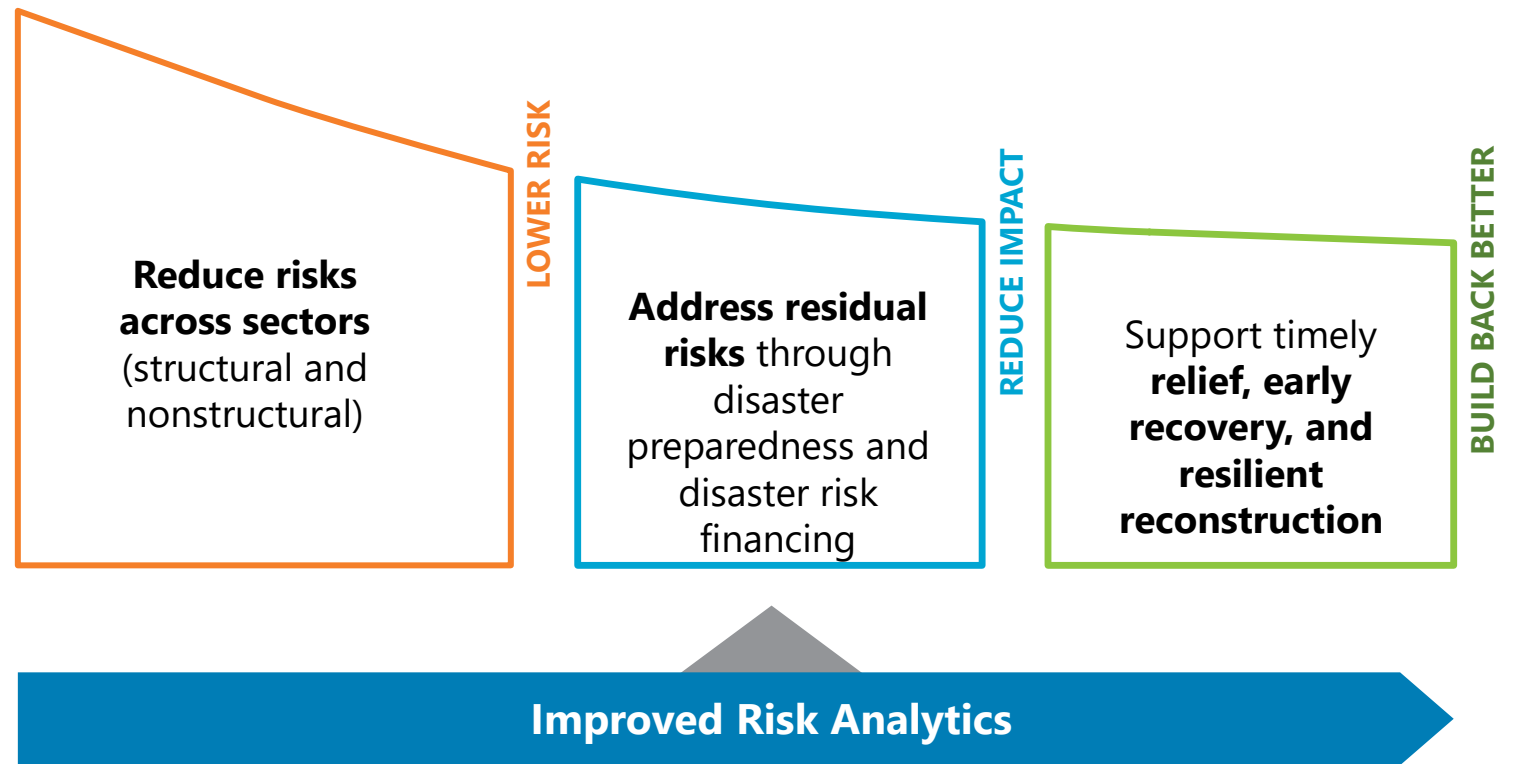
Who We Are: Policy Foundation of our Engagement

Guided by the **Disaster and Emergency Assistance Policy (2021)**, complemented by the Emergency Assistance Loan Policy (2021), Contingent Disaster Financing Policy (2022), and the Establishment of a Second Window under the Asia Pacific Disaster Response Fund (2021)

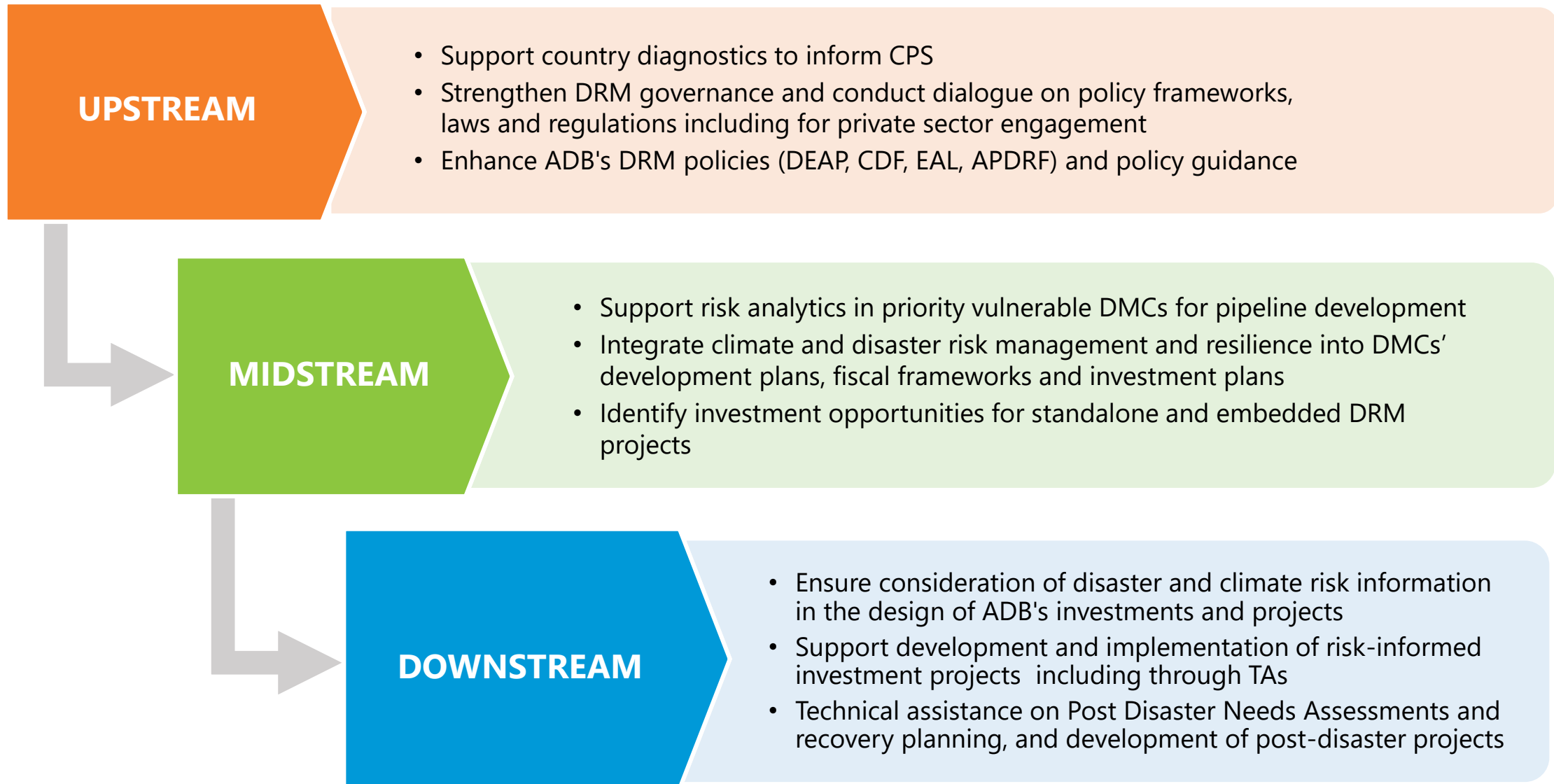
Four principles:

1. Primacy of risk reduction
2. Risk management is an integral part of the development process
3. ADB's DMCs have differentiated risk profiles and, thus, opportunities for enhanced resilience; and
4. Timely, carefully planned, and well-designed relief, early recovery, and reconstruction interventions

ADB promotes a holistic DRM approach that balances an **emphasis** on **disaster risk reduction** with **preparedness, resilient recovery, and reconstruction** based on **strong disaster risk analytics**



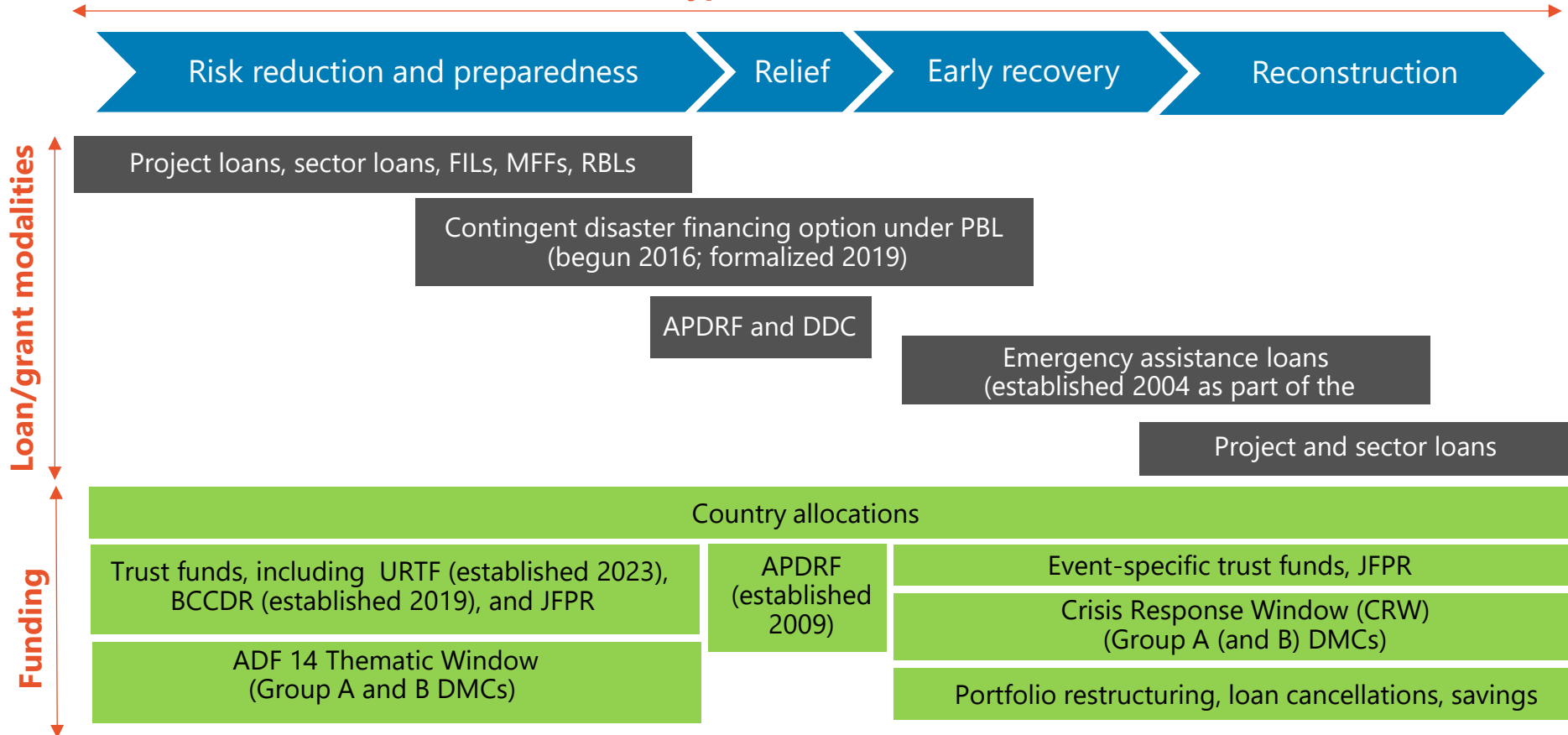
How we Work: Supporting Bank-Wide Delivery





Delivering on DRM Solutions

Types of intervention



ADF – Asian Development Fund; APDRF – Asia Pacific Disaster Response Fund; BCCDR – Ireland Trust Fund for Building Climate Change and Disaster Resilience in Small Island Developing States; COL – concessional ordinary capital resources lending; DDC - debt deferral clause; DMCs – developing member countries; FIL – financial intermediation loan; JFPR – Japan Fund for Prosperity and Resilience; MFF – multitranches financing facility; PBL – policy-based loan; RBL – results-based loan; UCCRTF – Urban Climate Change Resilience Trust Fund.

ADB's New Corporate Results Framework 2025–2030

DRM-related indicator: Committed operations supporting disaster risk management, and environment and nature (% of #) (sovereign and nonsovereign)

3-yr average baseline				
	2021-2023	2024	2025	2030 target
Total ADB	132.7	251	164	
DRM project count (% of ADB total)	9.7 (7.3%)	18 (7.2%)	21 (15.9%)	12%
Annual Targets				
	2025	2026/2027	2028	2029
Annual Targets	8%	9%	10%	11%

Exclusions: Cofinancing, investment facilities, private sector programs, technical assistance, and loans and grants supporting project preparation and design activities; activities undertaken as required by the ADB Safeguard Policy Statement to mitigate or offset the impact of ADB investment



DRM Action Plan 2024-2030



DISASTER RISK MANAGEMENT
 ACTION PLAN 2024-2030
 REDOUBLING ACTION TOWARD
 DISASTER RESILIENCE

OCTOBER 2024



Information for disaster risk management and resilience is available at www.adb.org/en/topics/disaster-risk-management

Upstream

- Support country diagnostics to inform CPS
- Strengthen DRM governance and conduct dialogue on policy frameworks, laws and regulations including for private sector engagement
- Enhance ADB's DRM policies (DEAP, CDF, EAL, APDRF) and policy guidance

Midstream

- Support risk analytics in priority vulnerable DMCs for pipeline development
- Integrate climate and disaster risk management and resilience into DMCs' development plans, fiscal frameworks and investment plans
- Identify investment opportunities for standalone and embedded DRM projects

Downstream

- Ensure consideration of disaster and climate risk information in the design of ADB's investments and projects
- Support development and implementation of risk-informed investment projects including through TAs
- Technical assistance on Post Disaster Needs Assessments and recovery planning, and development of post-disaster projects

Disaster Risk Management Action Plan: Priorities to 2030



Design innovative disaster and climate risk screening and assessment tools for ADB and DMCs



Expand dedicated and effective investments in disaster risk reduction in key sectors



Further develop ADB's DRF toolbox (resilient debt clauses, innovative insurance products etc.)

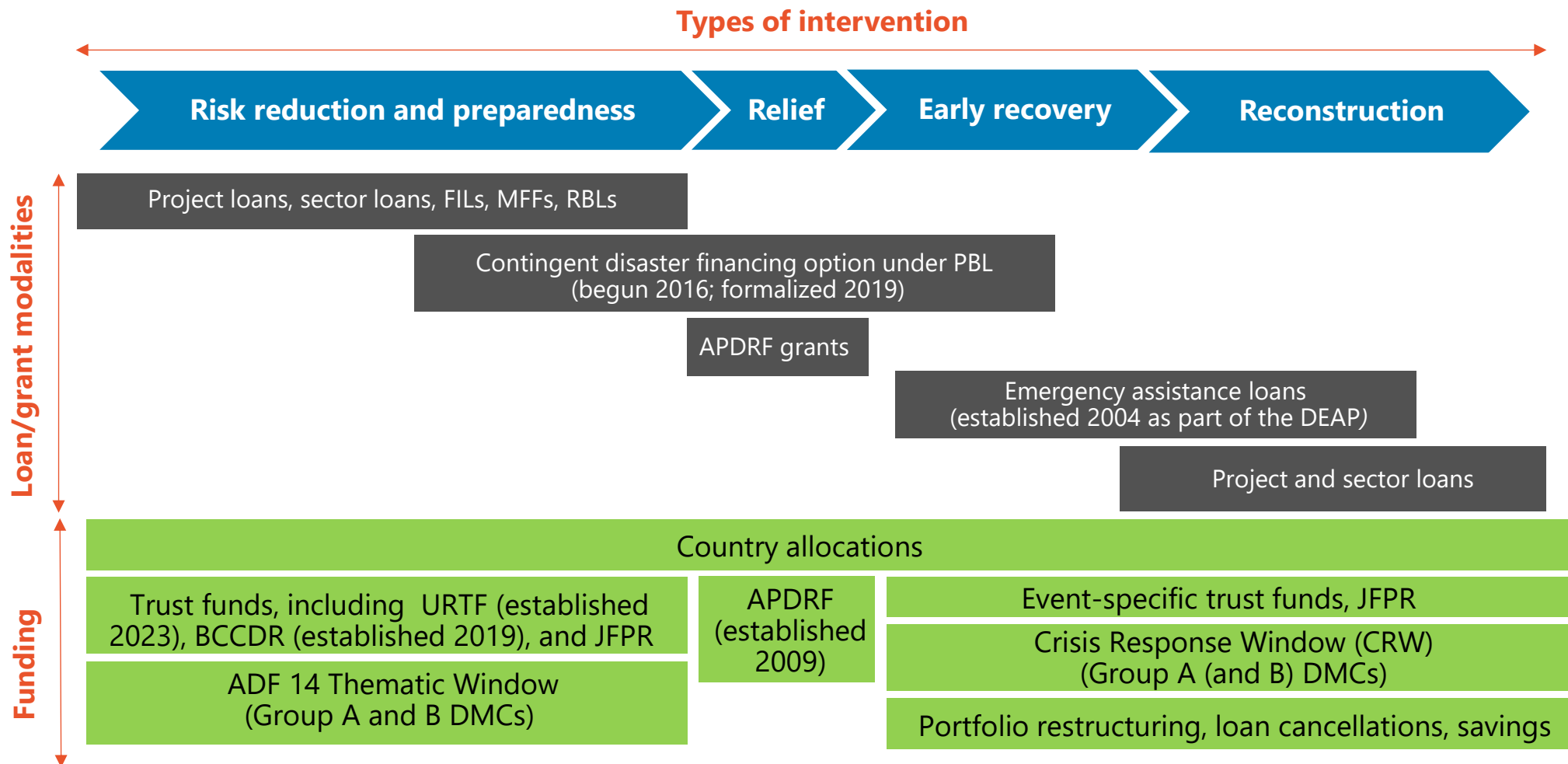


Strengthen resilient recovery institutions and capacity in high-risk DMC



Expand dedicated resources to incentivize and support DRM investments

How We Work: Grant and Loan Modalities for DRM



ADF – Asian Development Fund; APDRF – Asia Pacific Disaster Response Fund; BCCDR – Ireland Trust Fund for Building Climate Change and Disaster Resilience in Small Island Developing States; COL – concessional ordinary capital resources lending; DMCs – developing member countries; FIL – financial intermediation loan; JFPR – Japan Fund for Prosperity and Resilience; MFF – multitranches financing facility; PBL – policy-based loan; RBL – results-based loan; UCCRTF – Urban Climate Change Resilience Trust Fund.

Disaster Risk Management Technical Assistance

TA Name	TA Amount (US\$ million)	Approval	Completion	Financial Status*
6929: Enhancing Disaster Risk Understanding and Resilience	2.390	2022 (13 July)	2027 (30 Jun)	Committed: 49% Disbursed: 28%
10103: Increasing Investments in Early Warning Systems to Strengthen Climate and Disaster Resilience	0.725	2023 (5 May)	2026 (30 Jun)	Committed: 99% Disbursed: 47%
10435: Enhancing Asia and the Pacific's Readiness for Resilient Disaster Recovery	2.000	2024 (6 Dec)	2028 (31 Dec)	Committed: 94% Disbursed: 18%
10540: Enhancing Disaster Risk Financing Solutions in the Pacific	2.000	2025 (28 Apr)	2030 (31 Mar)	Committed: 9% Disbursed: 4%
10563: Integrating Solutions to Internal Displacement in the Context of Disasters and Climate Change	0.225	2025 (1 Jul)	2027 (30 Jun)	Committed: 87% Disbursed: 13%
10578: Supporting the Implementation of the Disaster Risk Management Action Plan 2024–2030	1.500	2025 (8 Aug)	2030 (15 Jul)	Committed: 25% Disbursed: 4%

* As of 16 March 2026.

2026 Pipeline

- TA10578: Supporting the Implementation of the Disaster Risk Management Action Plan 2004-2030 – Supplementary (\$0.45m; TASF)
- TA10103: Increasing Investments in Early Warning Systems to Strengthen Climate and Disaster Resilience - Supplementary (\$0.9m; EAKPF)



Environment



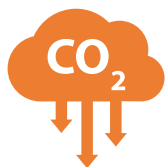
Environment: Solution for Economy, Society, and Resilience

Economy depends on nature

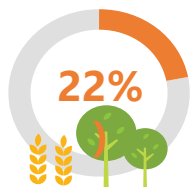
- » Healthy ecosystems contribute to **\$18 trillion** or **53%** of GDP in Asia and the Pacific [1] whereas
- » Nature-positive development could generate over **\$4 trillion** in business and create about **232 million jobs** per year in Asia by 2030. [2]
- » The global biodiversity funding gap stands at about **\$711 billion annually**. [3]



Climate depends on nature



Interconnected triple crisis of **biodiversity loss and ecosystem degradation, pollutions, and climate change**.



Agriculture, Forest and Other Land Use represents around **22% of greenhouse gas emissions** caused by human activities. [4]



Oceans absorb around **25% of CO₂** emissions, and **forests** can net sequester a further **25% of emissions**. [5]



Healthy ecosystems offer enormous and cost-effective **climate adaptation benefits**.

[1] [AIGCC, PwC 2024](#)
 [2] [Temasek 2021](#)
 [3] [Paulson Institute 2021](#)
 [4] [IPCC 2019](#)
 [5] [NOAA](#)



Scaling Nature and Environment Investments

BIODIVERSITY LOSS and ECOSYSTEM DEGRADATION

POLLUTION

CLIMATE CHANGE

MDB Joint Statement on Nature

Kunming-Montreal Global Biodiversity Framework

Multilateral Environmental Agreements

Paris Climate Agreement

INCREASE NATURE-POSITIVE INVESTMENTS

MAINSTREAM NATURE & ENVIRONMENTAL SUSTAINABILITY IN SECTOR INVESTMENTS

BIODIVERSITY & ECOSYSTEM MANAGEMENT

POLLUTION CONTROL & CIRCULAR ECONOMY

OCEAN & COASTAL MANAGEMENT

TERRESTRIAL ECOSYSTEM MANAGEMENT

AIR QUALITY

CIRCULAR ECONOMY

NATURE-BASED SOLUTIONS

NATURE-BASED SOLUTIONS/ GREEN INFRASTRUCTURE

ENVIRONMENT FINANCE & GOVERNANCE



Environment Action Plan 2024-2030

Upstream

- Integrate **environmental sustainability** into **Country Partnership Strategies (CPS)** and regional plans, enhancing global alignment.
- Strengthen **effective environmental governance** by improving policies, laws, and regulations.
- Enhance key internal operational and business framework and processes.

Midstream

- Identify and integrate key environmental features into pipelines, public finance management, and procurement.
- Conduct regional diagnostic studies and prioritize nature-positive investment projects.
- Promote cross-sector coordination, regional cooperation, and innovative finance for environmental sustainability.
- Promote the integration of ecosystem services and natural capital into economic evaluation of projects.

Downstream

- Increase quality and quantity of projects that address and enhance environmental sustainability.
- Integrate environmental features beyond safeguards in investments.
- Develop and leverage innovative financial instruments to boost environmental sustainability.
- Provide technical inputs and design support for investment projects with nature-based solutions (NbS) components.

Cross-cutting

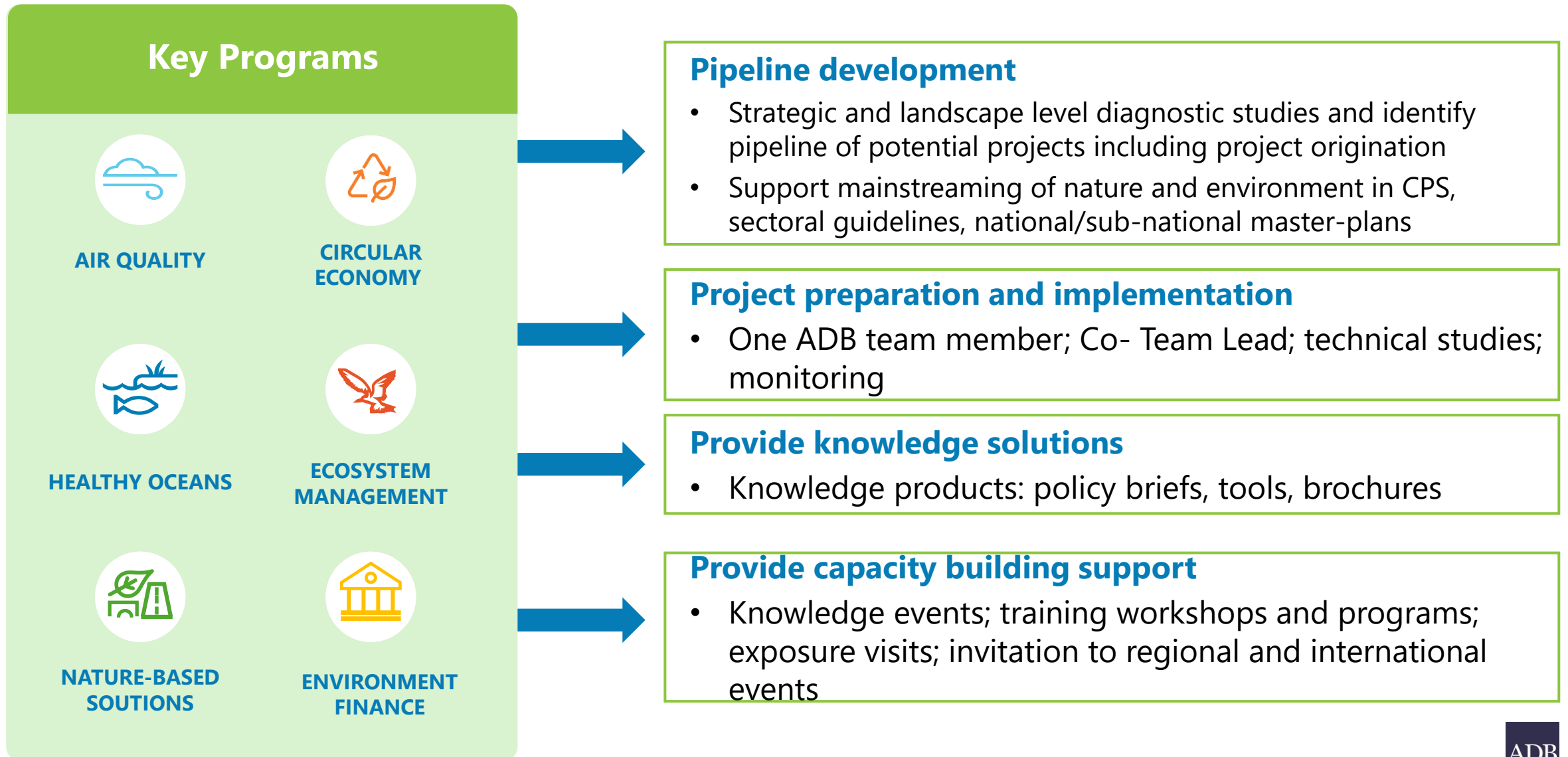
- Partnerships & stakeholder engagement
- Capacity building & training
- Knowledge generation & sharing
- Digital technologies & artificial intelligence



CCSD-Environment TAs

TA no.	TA Title	Total TA ('000)	Completion date
10010	Mainstreaming Nature-Positive Investments for Green, Resilient, and Inclusive Recovery	1,600.00	30 Nov 2027
10074	Promoting Climate-Resilient and Sustainable Blue Economies	9,874.33	31 Dec 2028
10243	Enhancing Environmental Sustainability through Inclusive, Integrated Solutions	4,398.03	31 Dec 2028
10398	Enhancing Outcomes of the Nature Solutions Finance Hub for Asia and the Pacific	5,439.08	31 Dec 2028
10470	Harnessing Bamboo Industries for Green Growth and Climate Action	570.00	31 Dec 2027
10537	Scaling Up Clean Air Action for Better Health and Resilience	3,130.00	31 Dec 2028

How we work and support operations



1. Biodiversity & Ecosystem Management

a. Ocean and Coastal Resilience

Healthy Ocean

Action Plan for Healthy Oceans & Blue Economies for Asia and the Pacific

FLAGSHIP OCEAN PROGRAMS



Blue Economy



Ecosystem Management



Pollution Control



Sustainable Infrastructure

ADB Committed: **\$4 BILLION** (2019-2024)

MAINSTREAMING OCEAN HEALTH

- Wastewater and Sanitation
- Agriculture and Water
- Solid Waste Management

GROWING BLUE ECONOMY SECTORS

- Green Maritime Transport
- Marine Renewable Energy
- Sustainable Coastal Tourism

1. Biodiversity & Ecosystem Management

b. Terrestrial Ecosystem Management

Program Focus Areas

Key Program: Regional Flyway Initiative (RFI)

- **Focus on.** Mainstreaming and Nature Positive. Key areas for scaling up with sectors.

INVESTMENT CONCEPT 1 HABITAT RESTORATION AND PROTECTION		Restoring and protecting mangroves and other wetland habitats has clear economic and ecological benefits.
INVESTMENT CONCEPT 2 SUSTAINABLE AQUACULTURE		Sustainable aquaculture and fisheries support food, nutrition and water security for wetland communities.
INVESTMENT CONCEPT 3 SUSTAINABLE AGRICULTURE		Sustainable agriculture can strengthen long-term food and livelihood security while delivering net gains for biodiversity.
INVESTMENT CONCEPT 4 POLLUTION PREVENTION AND WATER MANAGEMENT		Preventing pollution and sound water governance offers massive benefits
INVESTMENT CONCEPT 5 NATURE PROTECTION AND ECO-TOURISM		Protecting natural wetlands creates massive ecotourism benefits and opportunities



- **Aim.** Mobilize \$3 billion of investment in wetland protection and management
- **Regional.** East, Central, Southeast Asia and Pacific.
- **Goal.** Protection and improved management of **50 wetlands** (>2 million ha).
- **Co-benefits.** Healthy wetlands support food security, local livelihood and climate resilience.
- **Early Projects.** (i) South Dongting Lake, PRC, \$150 million (approved 2024); (ii) Fujian Coastal Cities and Biodiversity, PRC, \$139 million (approval in Nov 2025); (iii) Phil Flyways TA \$3 million (approved, 2025) (iv) Thailand Coastal Restoration (\$TBC, 2027) & Haor Wetlands, Bangladesh \$50 million (2026/7)

- **GEF.** Supporting \$400 million in GEF cofinanced projects
- **Technical & TA Support.** – key sectors supported AFNR + WUD
- **Biodiversity Working Group**
- **Forestry Working Group**



map was produced by cartography unit of the

2. Pollution Control

a. Air Quality – Asia Clean Blue Skies Program (ACBSP)

ACBSP Phase 1 completed (Sep 2022 – Dec 2024)
ACBSP Phase 2 initiated in Jan 2025

IMPACT: Air Quality in Asia Improved



OUTPUT 1
Policies, plans and strategies on air quality developed/strengthened

OUTPUT 2
DMC Capacity for AQM implementation and enforcement improved

OUTPUT 3
Clean air solutions implemented

TAs on Air Quality

- 1) Anchor CCSD TA for ACBSP
- 2) Other TAs in SG-TRA, OMDP, SG-HSD

ENV Community of Practice: AQ Working Group

Knowledge and Partnerships

- 1) Better Air Quality (BAQ) Conference
- 2) Air Quality Toolkit
- 3) ADB – World Bank partnering on AQ in South Asia

Regional Cooperation on AQ

AQ Regional Programs and Investment Projects under preparation (evolving list)

Financing AQ in ADB Portfolio			
	Direct AQ benefit	AQ co-benefit	Total
2022	0%	25.4%	25.4%
2023	5.5%	23.8%	29.3%
2024	Being estimated		
2028 Target (proposed)	10%	40%	50%
			10

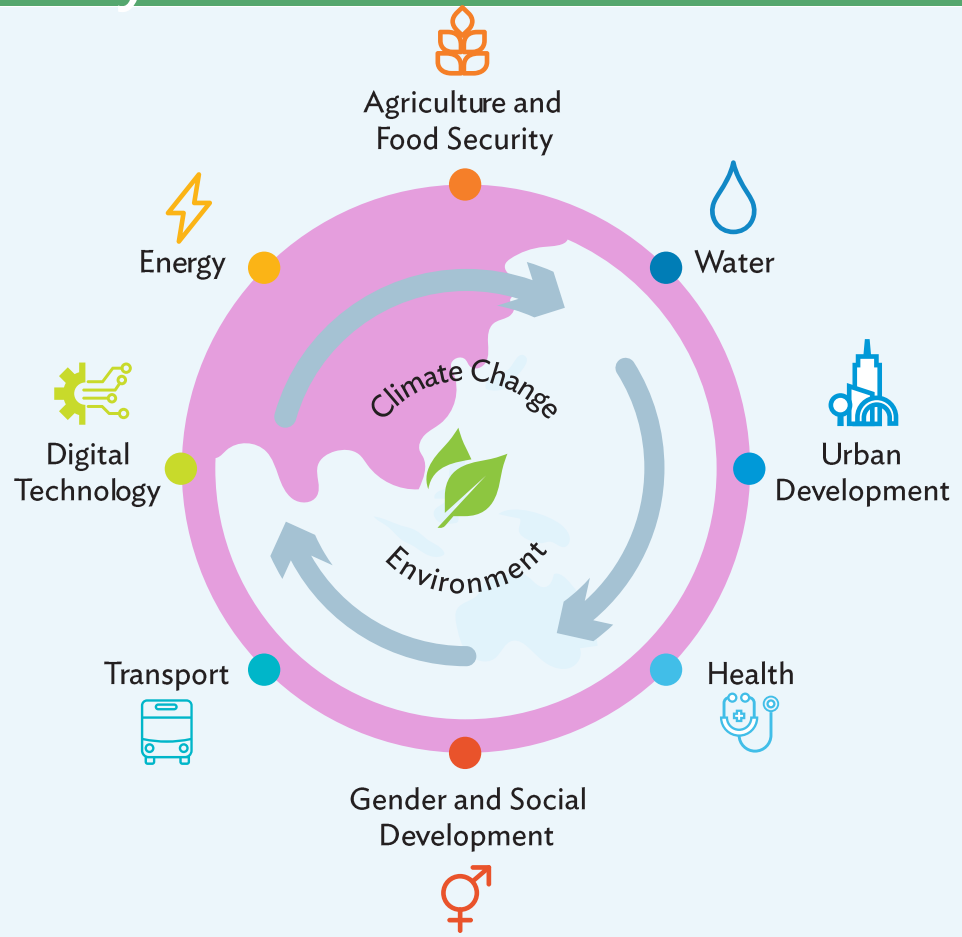
Tracking methodology and numbers to be reviewed and vetted by AQ WG

2. Pollution Control

b. Circular Economy

Systems Level Approach to Operationalize Links and Balance Implementation Trade Offs

Circular Economy is a programmatic systems approach to support economic development whilst de-linking it from the unsustainable consumption practices



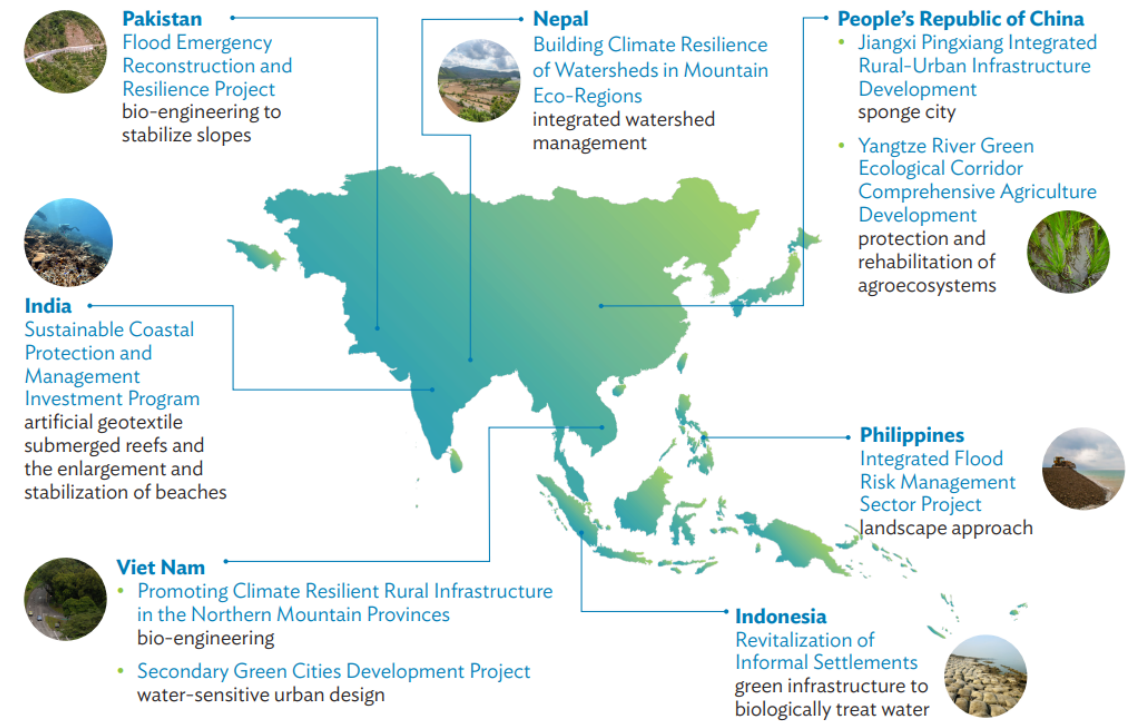
- Using a country-focused approach
- Applying the differentiated approaches
- Developing integrated solutions
- Taking multisectoral approaches
- Promoting digital development and innovative technologies
- Expanding private sector operations
- Developing capacity
- Adding value and promoting quality infrastructure

ADB Support to Mainstream Circularity

- **Institutional strengthening and innovation.** Yangtze River Economic Belt Jiangxi Ecological Civilization and Circular Economy Project (\$200 million), Shanxi Changzhi Low-Carbon Climate-Resilient Circular Economy Transformation Project (\$300 million), proposed policy-based loans to address marine debris in Indonesia and Philippines
- **Private sector investments in plastics circularity.** Indorama Ventures Regional Blue Loan Project (\$100 million), Alba Blue Loan for Recycling (\$44 million)
- **Opportunities to enhance support under planned Global Plastics Treaty**

3. Nature-based Solutions

- **NbS**—using nature and ecosystem services—addressing **development challenges** (e.g., climate change, ecosystem degradation, biodiversity loss, food insecurity)
- Providing **cost-effective solutions with co-benefits** (e.g., recreational opportunities, green jobs)
- Growing number of ADB projects with NbS in **agriculture, transport, water, urban sectors**
- **Current portfolio** of NbS-related projects: US\$7 billion in 39 projects with largest investment made in East Asia and ANR sector (NbS accounting for only a portion of total amount)
- **Landscape approach** offering best possible solutions, identify potential cross-sectoral investment opportunities
- Mainstreaming NbS into operations through **NbS program** with policy support, project design clinic, knowledge brokering
- **Nature-Solutions Finance Hub** launched to create high impact biodiversity, nature-based adaptation/resilience initiatives



Examples of ADB Projects Using Nature-Based Solutions

Selected knowledge products

PRACTITIONERS GUIDE TO INTEGRATING NATURE-BASED SOLUTIONS FOR CLIMATE CHANGE ADAPTATION AND DISASTER RISK MANAGEMENT
PREPARED BY JOHN MATTHEWS AND ERNESTO OGAMPO DELA CRUZ

REGENERATING THE RIVER: GUIDELINES ON MAINSTREAMING NATURE-BASED SOLUTIONS IN ADB WATER SECTOR INVESTMENTS
Bregje K. van Wierenbeck, Christa van Eindhoven, and Ana Huesca Sanchez

Nature-Based Solutions for Flood Risk Management: Revitalizing Philippine Rivers to Boost Climate Resilience and Enhance Environmental Sustainability



3. Nature-based Solutions

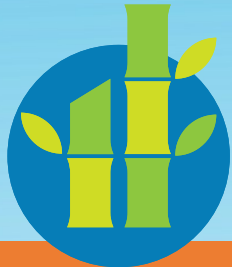
The Nature Solutions Finance Hub

THE NSFH VISION

Transforming nature finance to integrate NbS into mainstream investment, achieving measurable climate and biodiversity outcomes.

OVERARCHING OBJECTIVE

The NSFH aims to catalyze at least \$5 billion in capital flows into NBS investments across Asia and the Pacific.



Nature-positive Investment Project Origination and Pipeline Development

Establish a network of flagship Nature-based Solutions projects to scale



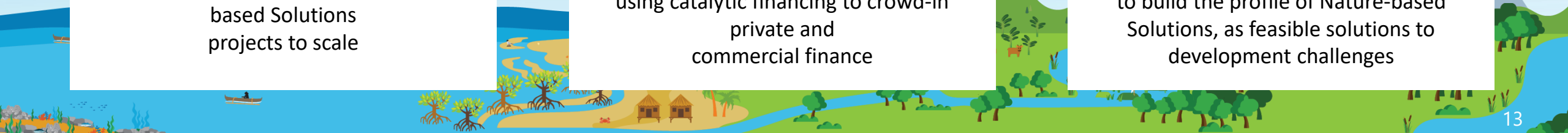
Innovative Nature Finance and Financial De-Risking

Introducing innovative finance approaches using catalytic financing to crowd-in private and commercial finance



Capacity and Policy Development

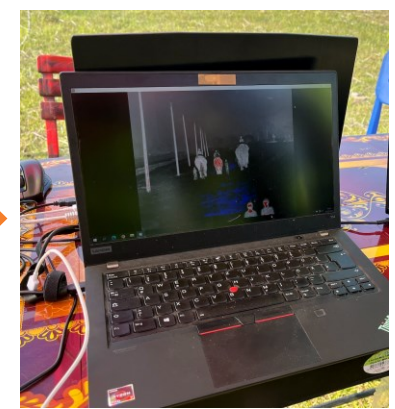
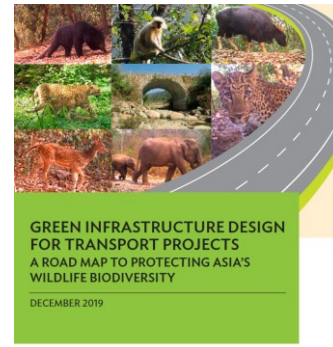
Learning from piloting and demonstration to build the profile of Nature-based Solutions, as feasible solutions to development challenges



3. Nature-based Solutions

Green Infrastructure

- **Design and implementation of** biodiversity friendly measures in transport infrastructure through strategic level mainstreaming and intervention in transport infrastructure projects.
- **BAN Chittagong – Cox’s Bazaar Rail Project** included innovative measures such as:
 - » The world’s first elephant overpass.
 - » Wildlife underpasses
 - » Sensor technology to prevent elephant – train collision
 - » Improvement of wildlife habitat
- **NEP: Second SASEC Highway Enhancement Project Project and GEF GRID Child Project.** The following measures are being considered in project design:
 - » Elevated sections of the highway to avoid impacts on Tigers, Rhinos, Elephants and other wildlife species.
 - » Mainstreaming biodiversity in upstream policies and planning processes
 - » Building capacity of national and provincial government on biodiversity
 - » Exploring options for financing and de-risking of biodiversity friendly infrastructure



Carbon Markets





ADB - Driving Climate Mitigation through Innovative Carbon Finance

- **Carbon Market Development:**
 Technical assistance and capacity-building support
- **Carbon Finance Mobilization:**
 Incentivizing investments in low-carbon technologies and solutions

ADB collaborates closely with regional and international development partners to co-create high-integrity carbon markets that supports transparent, inclusive and impactful climate action across Asia and the Pacific.





ADB's Carbon Market Program

Japan Fund for the Joint Crediting Mechanism

Carbon finance to incentivize deployment of advanced low-carbon technologies

- Provides financial incentive for deploying advanced low-carbon technologies in ADB-financed projects, under the Joint Crediting Mechanism, aligned with Article 6.2.
- Upfront finance
- Demand signal

 **\$138.6 mn**

- Ministry of the Environment, Japan
- Ministry of Foreign Affairs and Trade, New Zealand

Article 6 Support Facility

Technical and Capacity Building Support to enhance carbon market readiness and projects

- Upstream: National Strategies, Frameworks, Institutional Infrastructure for carbon markets
- Midstream: Pipeline of projects for carbon credits
- Downstream: Support development of carbon projects to generate carbon credits

 **\$7.8 mn**

- Federal Ministry for Economic Cooperation and Development, Germany

Climate Action Catalyst Fund

Carbon finance to support transformative mitigation actions

- Pre-purchase of carbon credits from ADB financed projects generating carbon credits under Article 6 of the Paris Agreement
- Long term fixed price contracts and upfront payments
- Price signal

 **\$77.0 mn**

- Swedish Energy Agency
- Norwegian Ministry of Climate and Environment