

**ADB**

**Asian Development Bank**  
Climate Change and Sustainable Development Department



# State of EWS per the Sendai Framework on DRR Mid-Term Review

- On target G: **108 countries reported having MHEWS**, compared to only 52 in 2015

Target G	As of March 2024		
	Number of countries reported having access to multi-hazard early warning systems (MHEWS)	Percentage of countries of each country group that reported having access to MHEWS	Number of countries that reported having access to MHEWS (Global)
LDC	20	44%	108 (55%)
SIDS	14	38%	
LLDC	20	59%	

- 69 countries having MHEWS have self-assessed their MHEWS with “limited to moderate” achievement, 39 countries self-scored to have “substantial to comprehensive” achievement.
- On other targets:

Target A: Reduce global disaster mortality	Target B: Reduce the number of affected people	Target C: Reduce disaster economic loss in relation to global GDP	Target D: Reduce disaster damage to critical infrastructure & disruption of basic services
Average disaster-related mortality has a decline of 49% from 2005-2014 to 2014-2023	Number of disaster-affected people increased to 71% from 2005-2014 to 2014-2023	<b>Economic loss in global GDP exceed \$131 billion</b> per year in 2015-2022.	<b>94,428 critical infrastructure units</b> were damaged each year from 2015-2023. More than <b>1.6 million basic services</b> were disrupted.



# ADB Commitments for Early Warning Systems

- Increasing resilience and reducing losses a priority of **corporate strategy and corporate results framework**
- Priority in **Disaster Risk Management Action Plan** and **Climate Change Action Plan**.
- Increase commitment for providing **climate finance**.
- Adopt a **multi-hazard** approach for building resilience.
- Focus investments on **impact-based multihazard EWS**



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

ASIAN DEVELOPMENT BANK



## STRATEGY 2030

Achieving a Prosperous, Inclusive, Resilient, and Sustainable  
Asia and the Pacific

JULY 2018



## CLIMATE CHANGE ACTION PLAN 2023-2030

NOVEMBER 2023

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# ADB's Portfolio on EWS: A Review

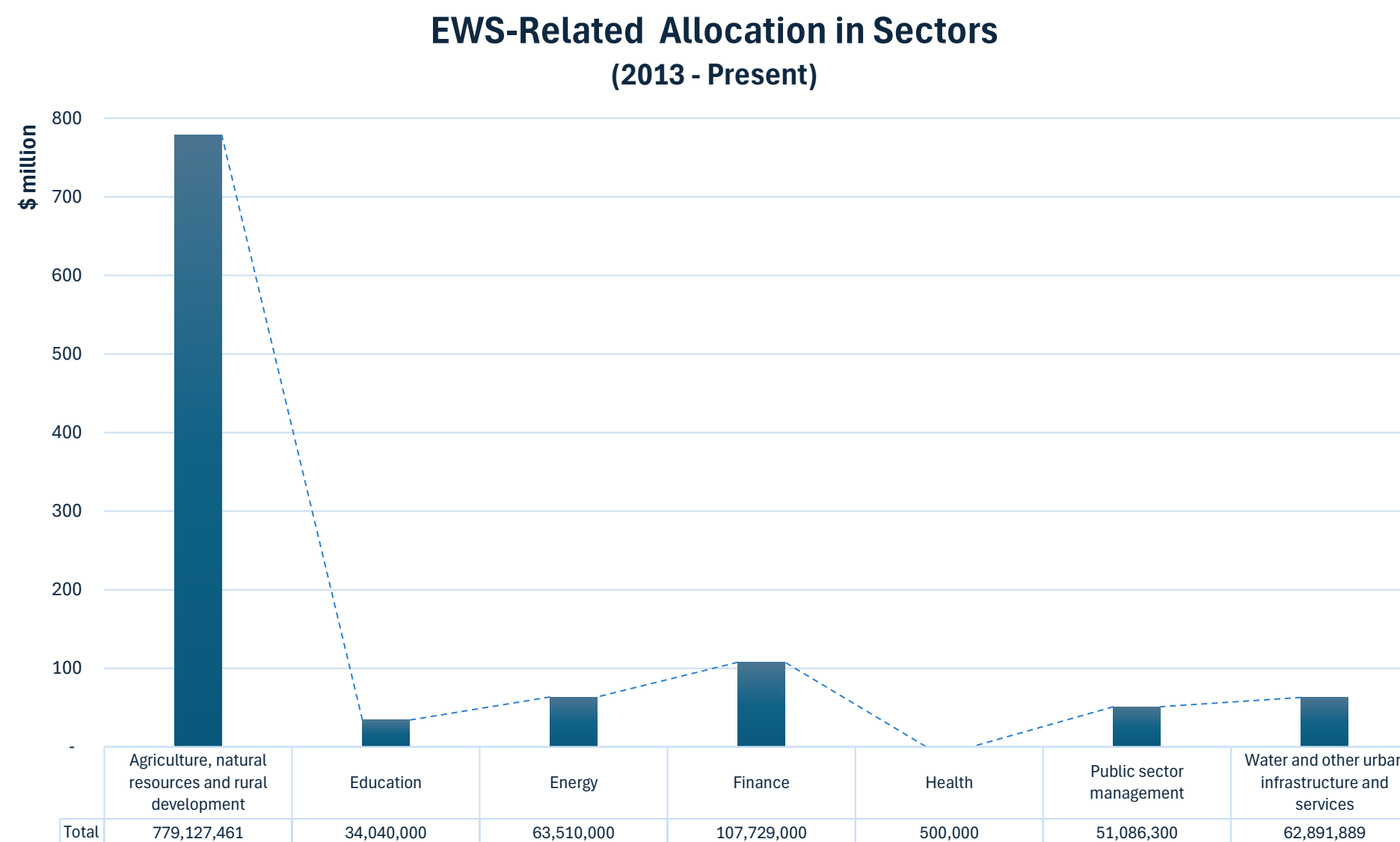
## Key points from the 2021 assessment of ADB's EWS engagement

- Mostly for floods
- National level intervention
- Mostly focused on ANR
- Limited engagement with NMHS
- Limited sustainability
- Relevance of early warning products and information as critical inputs in planning and decision making



# EWS Investments in Ongoing ADB Projects

- ADB is providing support to several projects with an early warning component in **different sectors across DMCs.**
- As recorded by WMO's Global Observatory for EWS Investments -- from 2013 to present, ADB EWS-related investments have cost estimates of up to **\$1.036 billion.**

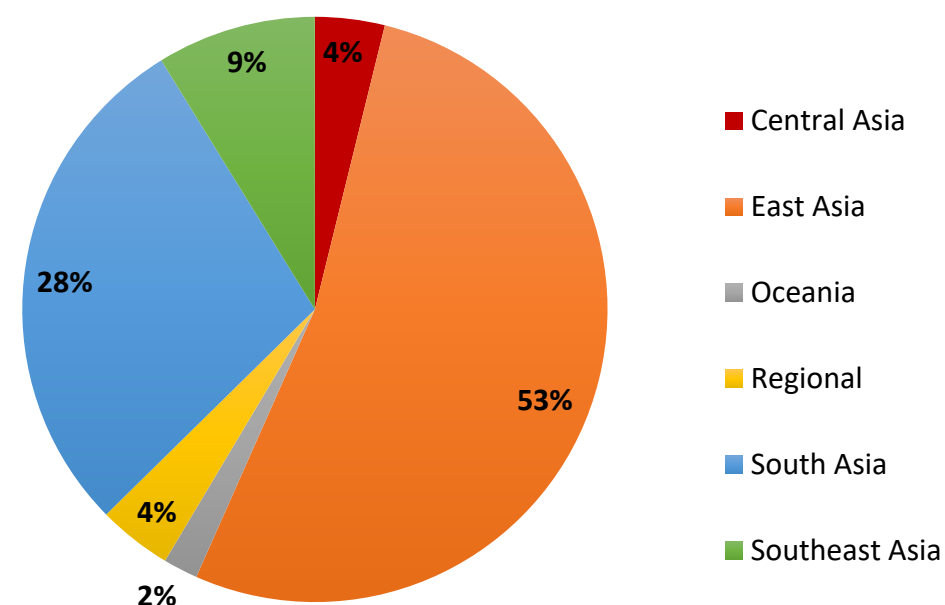




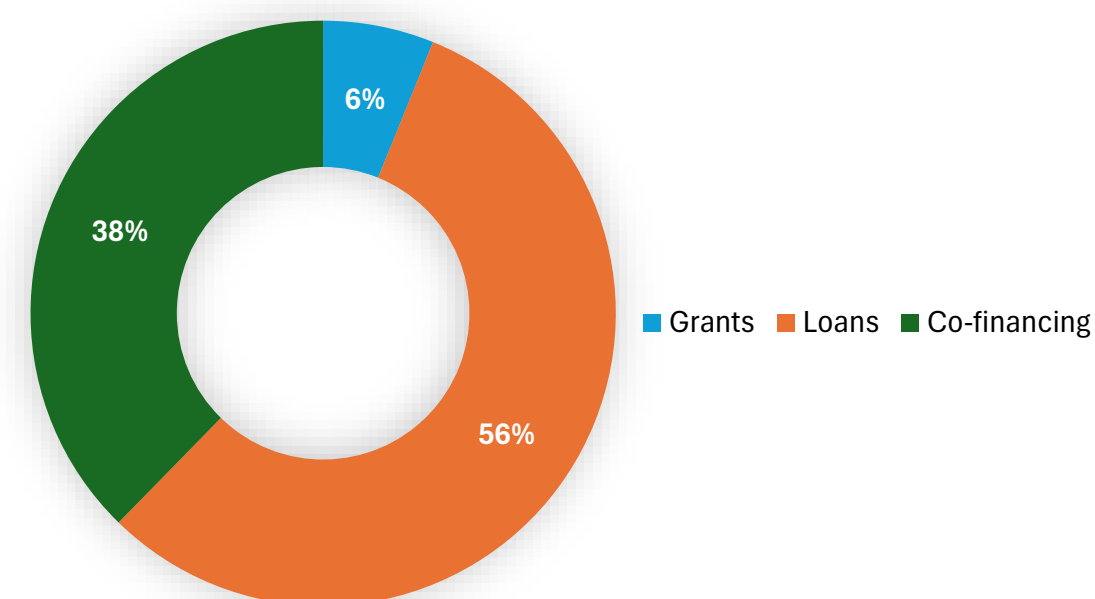
# EWS Investments in Ongoing ADB Projects

- Most of the projects with EWS components are focused on East Asia with around \$580 million EWS-related investments. This is followed by South Asia with \$314 million.
- Most of these projects are financed through loans, followed by co-financing with governments and other entities. Some are through grants from the Asian Development Fund.

**ADB EWS Investments  
(2013 - Present)**



**Financing of ADB Projects with EWS Component  
(2013 - Present)**



# TA10103: Increasing Investments on EWS to Strengthen Climate and Disaster Resilience

[Link to TA10103](#)



## OUTCOME



### New EWS facility initiated

01

#### OUTPUT 1

Scoping report of a new early warning facility completed



- Scoping report of the new EWS facility completed
- At least three investment concept notes completed

02

#### OUTPUT 2

Regional consultation workshop conducted



- Workshop conducted to present the findings and recommendations of the scoping, and determine EWS priorities, activities and next steps

03

#### OUTPUT 3

Design of EWS investments developed



- Situational analysis, climate and disaster risk assessment, and sectoral analysis on EWS application for at least three DMCs completed
- At least three in-country investment design workshops conducted
- At least three EWS investment frameworks completed
- Environmental and social impact assessments conducted for at least three EWS investment frameworks
- At least one EWS funding proposal to global fund or bilateral donor completed



## TA10103: Scoping Report Priority DMCs for EWS Support

Priority DMCs	AAL (\$ billion)	AAL/GDP
Bangladesh	17.00	6.2%
Nepal	6.40	6.4%
Kazakhstan	3.35	1.6%
Uzbekistan	3.10	3.0%
Cambodia	2.48	6.7%
Lao PDR	1.26	6.6%
Timor-Leste	0.87	4.1%
Tajikistan	0.63	5.5%
Mongolia	0.43	3.2%
Kyrgyz Republic	0.39	5.4%
Maldives	0.05	1.3%





# TA10103: Scoping Report: Key Gaps on EWS and ADB's Offer



Impact forecast and risk knowledge not operationalized and integrated in decision-making. **Limited availability of tailored climate information services** and their application to key economic sectors.



Strong **sectoral expertise** to promote and influence sectoral application of EWS and extend the impact of EWS **beyond saving lives towards saving livelihoods, and reducing damages and losses**



**Uneven financing across different components of EWS**, thus, development gains made in a single pillar is not translated into improvement of the overall EWS.



Capacity to influence financing for EWS in country's **fiscal system, and anchor in sector budgets**, and influence EWS investment at **scale** and across **systems**



EWSs are often **not sustained or scaled up** due to lack of institutional mechanisms, funding, and technical support for operation and maintenance.



Use of different **financial instruments** to pursue and incentivize reforms, and access to dedicated **concessional financing** for DRR and CCA

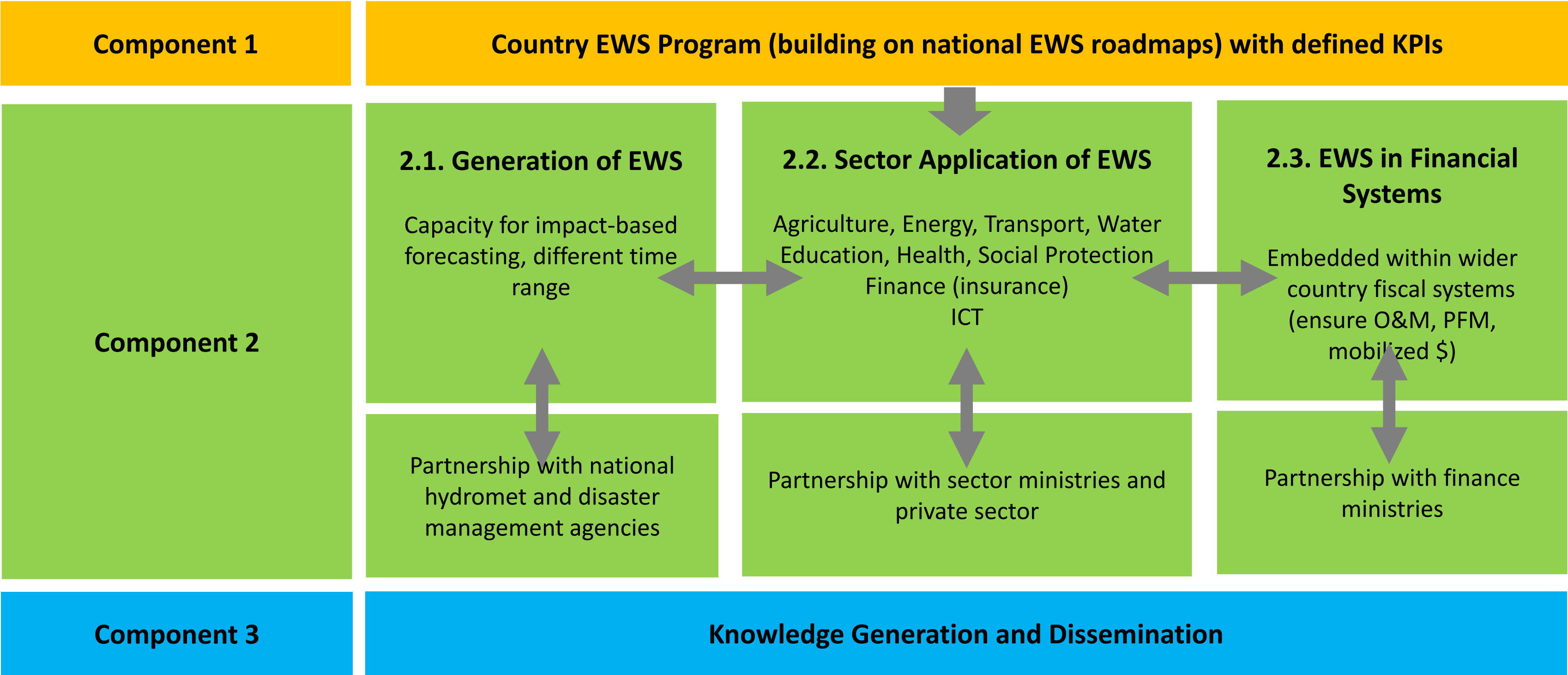


**Public-Private Partnerships** are **minimal** compared to its full possible extent and potential.

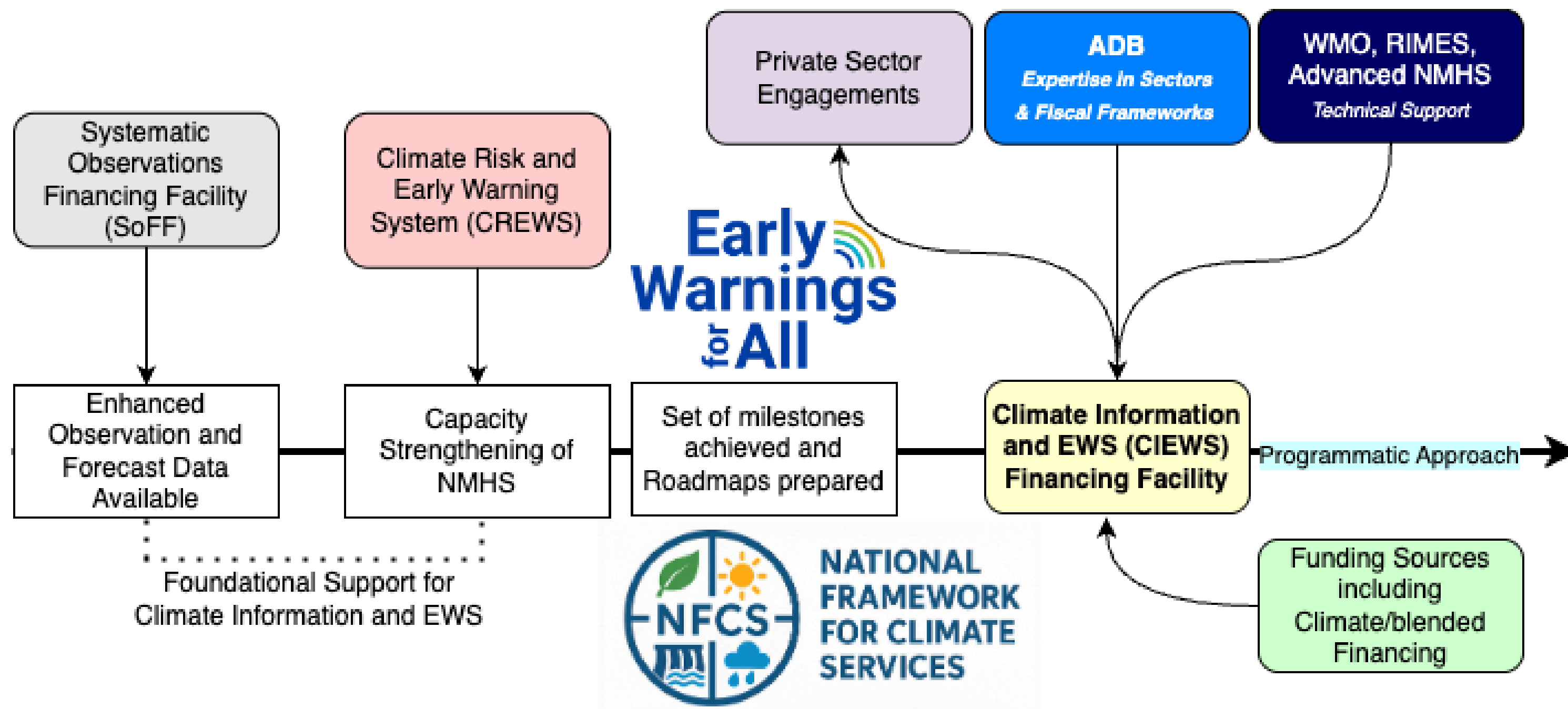


Pursue **private sector** opportunities in EWS

# TA10103: Proposed EWS Financing Partnership Facility for Programmatic Support



# TA10103: Leveraging Current Channels and Expertise on EWS





# TA10103: Supporting CIEWS design of sectoral projects

**Maldives: Enhancing Climate Resilience and Food Security Project**



**Uzbekistan : Resilient Amu Darya River Basin Sector Development**





# TA10103: Scoping and Regional Validation Workshop Reports

ADB

Technical Assistance Consultant's Report

PUBLIC

Project Number: 57055-001  
June 2024

Regional: Increasing Investments in Early Warning Systems to Strengthen Climate and Disaster Resilience

Scoping Report

Prepared by: Raihanul Haque Khan, Carlyne Yu, Sonu Khanal, Guillaume Dulac, and Anna Francesca Cubos

Asian Development Bank is the executing and implementing agency

This consultant's report does not necessarily reflect the views of ADB or the Government concerned, and ADB and the Government cannot be held liable for its contents. (For project preparatory technical assistance: All the views expressed herein may not be incorporated into the proposed project's design.)

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[Link to Scoping Report](#)



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Technical Assistance Consultant's Report

PUBLIC

Project Number: 57055-001  
February 2024

Regional: Increasing Investments in Early Warning Systems to Strengthen Climate and Disaster Resilience

Workshop Report: Regional Workshop on Increasing Investments in Early Warning Systems, 1-2 February 2024, Bangkok, Thailand

Prepared by: Raihanul Haque Khan and Anna Francesca Cubos

For the Asian Development Bank

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[Link to Workshop Report](#)





# Thank you.

