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# Water Security and Resilience in Asia and the Pacific

An overview of ADB's Water Sector Portfolio, Projects and Programs

24 February 2024

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# Outline

**Water Security in  
Asia and the  
Pacific**

**Sector Challenges**

**ADB's Water Sector  
Portfolio**

**ADB's Actions to  
Support Water  
Resilience in Asia and  
the Pacific**

# Asia Pacific Water Sector Challenges



**Climate change is being primarily felt through water** through intensification of the water cycle. The region accounts for 40% of disasters triggered by natural hazards and 84% of the people they affect



**Wetlands destruction is driving biodiversity loss.** More than 30% of the global biodiversity has been lost because of the degradation of fresh-water ecosystems.



**Food security depends on water security.** Agriculture consumes an average of 70% of freshwater. Irrigation is the primary driver of groundwater pollution. Growing demand for food will increase pressure on water resources.



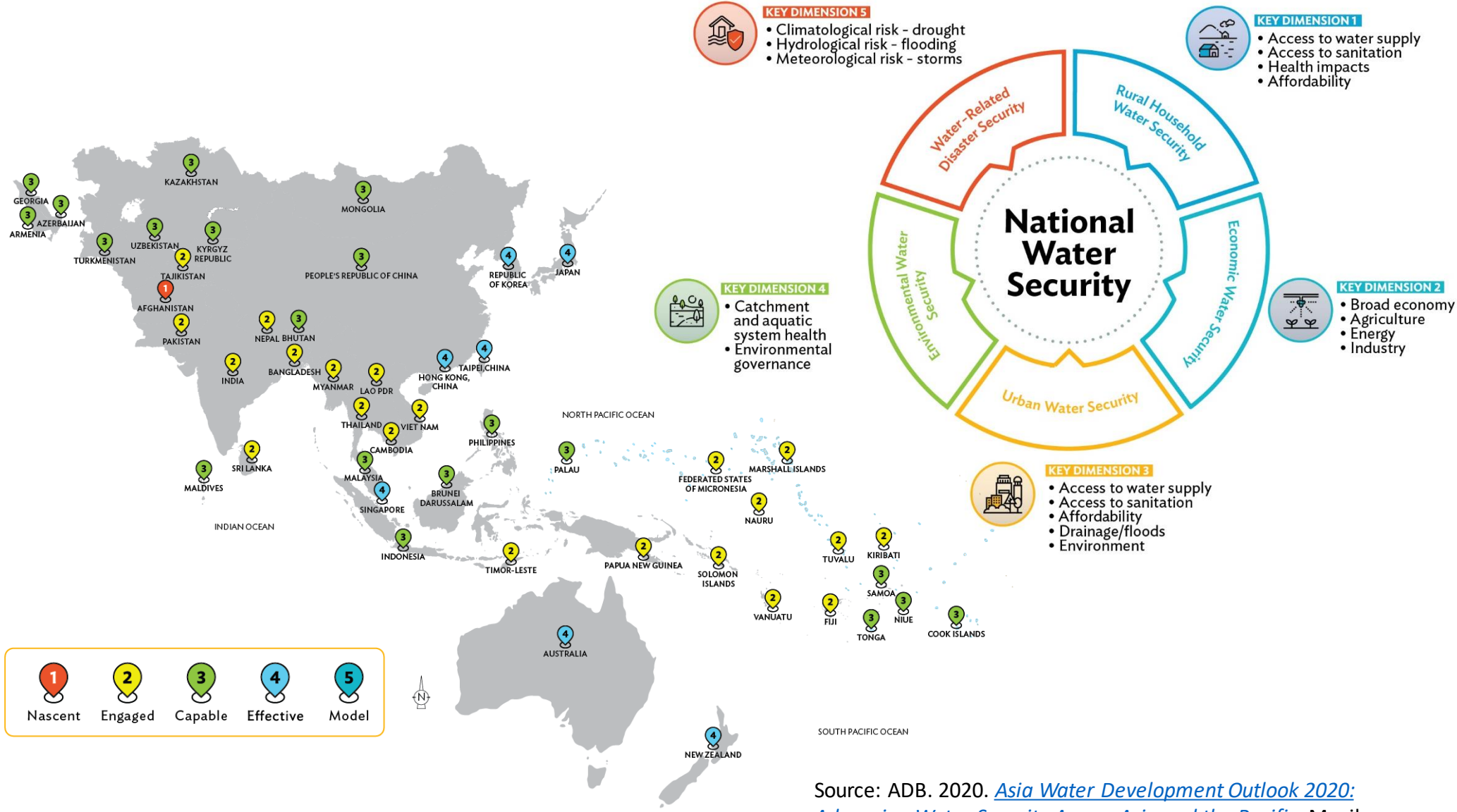
**Water quality is deteriorating.** 80% of urban wastewater is discharged untreated. Saline intrusion and arsenic are also growing threats to groundwater quality.



**Inadequate access to basic water supply and sanitation services.** 500 million people without access to basic water supplies, 1.14 billion people without access to sanitation.

# State of Water Security in Asia and the Pacific

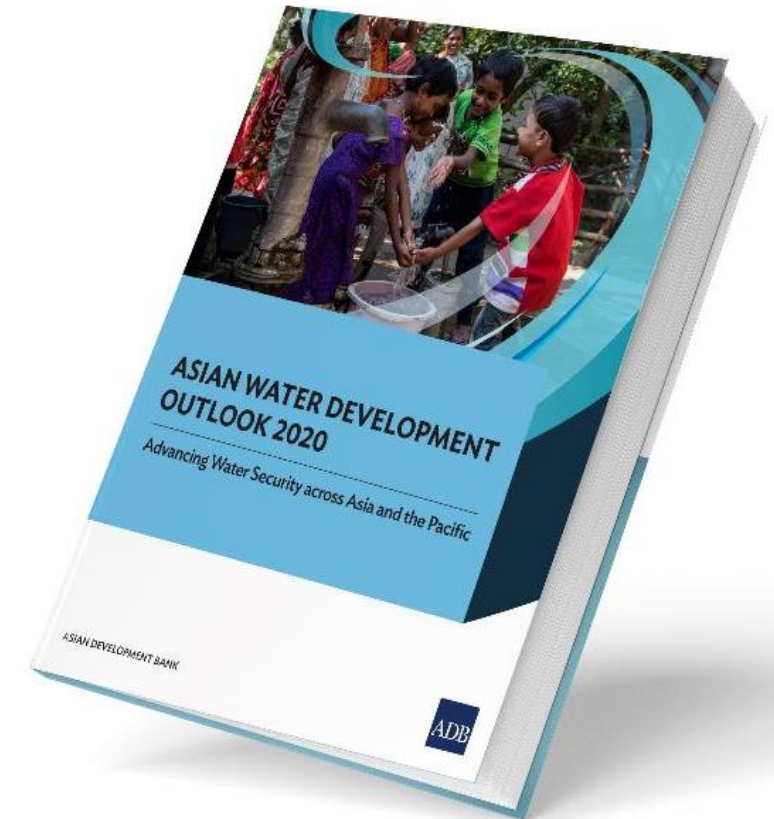
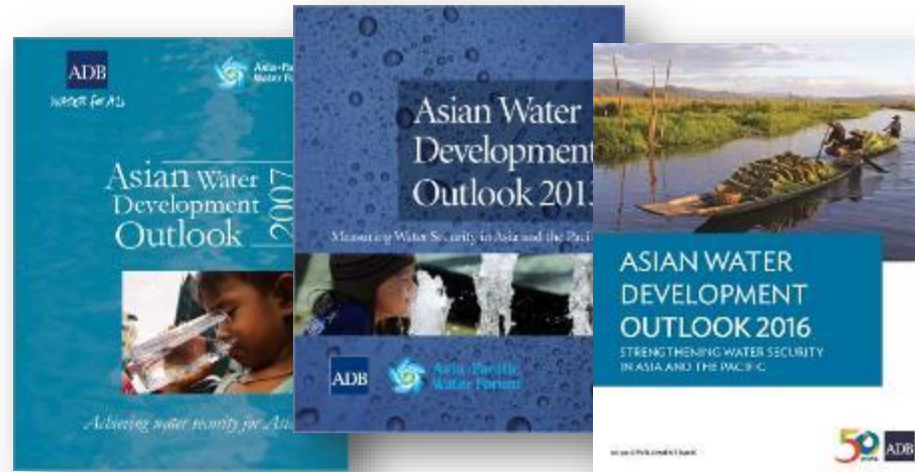
ADB



Source: ADB. 2020. *Asia Water Development Outlook 2020: Advancing Water Security Across Asia and the Pacific*. Manila

# Water Security in Asia and the Pacific: The AWDO Journey

ADB Flagship Publication



## AWDO 2020 Objectives

- **Communication tool** on water security for Asia and the Pacific
- **Inform and guide policy reforms** and investments
- Show water security progress - 2013, 2016, 2020

AWDO 2020 Partners



# Asia Pacific Water Sector Challenges



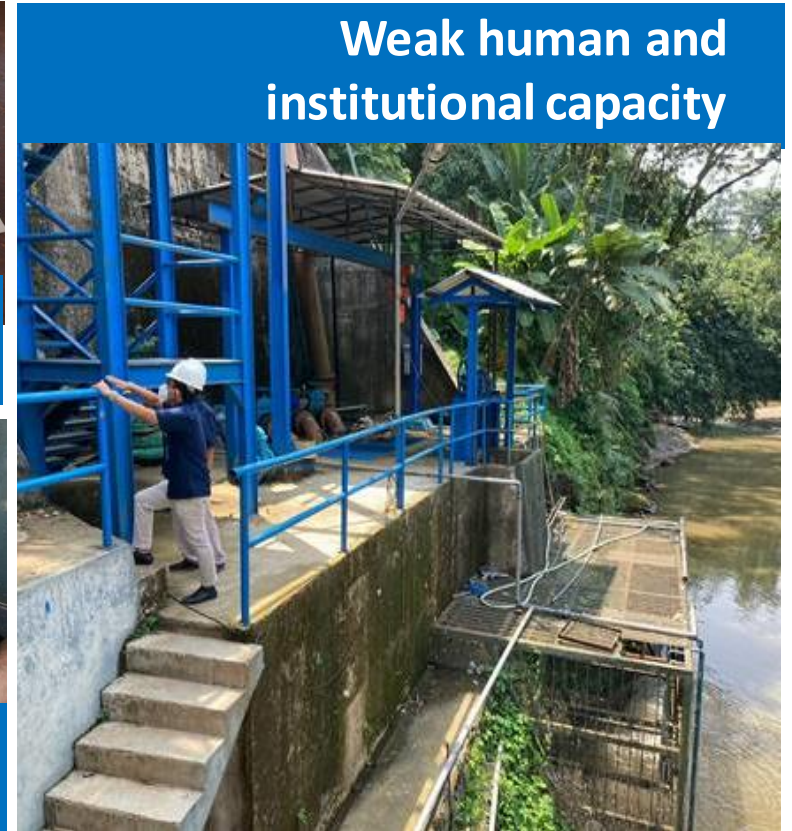
**Poor governance**



**Low financial sustainability**



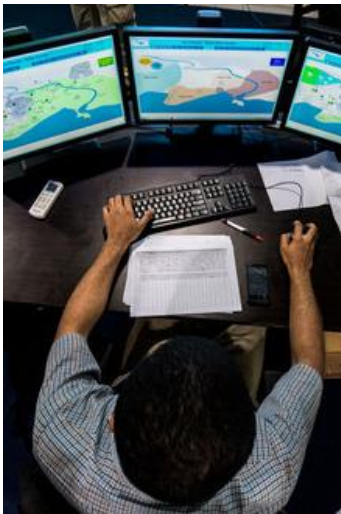
**Low uptake of digital technologies**



**Weak human and institutional capacity**

# What is ADB doing to meet Asia's Water Challenges?

ADB



## 1. Mainstreaming and expanding climate adaptation in projects and policies

- Building resources and capacities of ADB staff and water entities on the ground for climate actions, green infrastructure, Paris Agreement alignment, and operating in the 'new normal'

## 2. Strengthening enabling environment and availing modalities and tools

- Improving operational sustainability, increase private financing, and local resource mobilization

## 3. Streamlining processes and practices

- For cross-sector, cross-theme, cross-region collaboration for integrated planning and implementation.

## 4. Expanding digitalization and technological innovations

- Partnering with both public and private sector, as an entry point for increasing private sector participation, transboundary cooperation, and asset management

## 5. Conducting upstream sector diagnostics

- Deepening entity-level and country-level engagements and providing demand-driven knowledge services



# Vision: Advancing a Water-Secure and Resilient Asia and the Pacific

ADB



Poverty



Gender



Climate, Disasters and Environment



Liveable Cities



Food Security and Rural Development



Governance

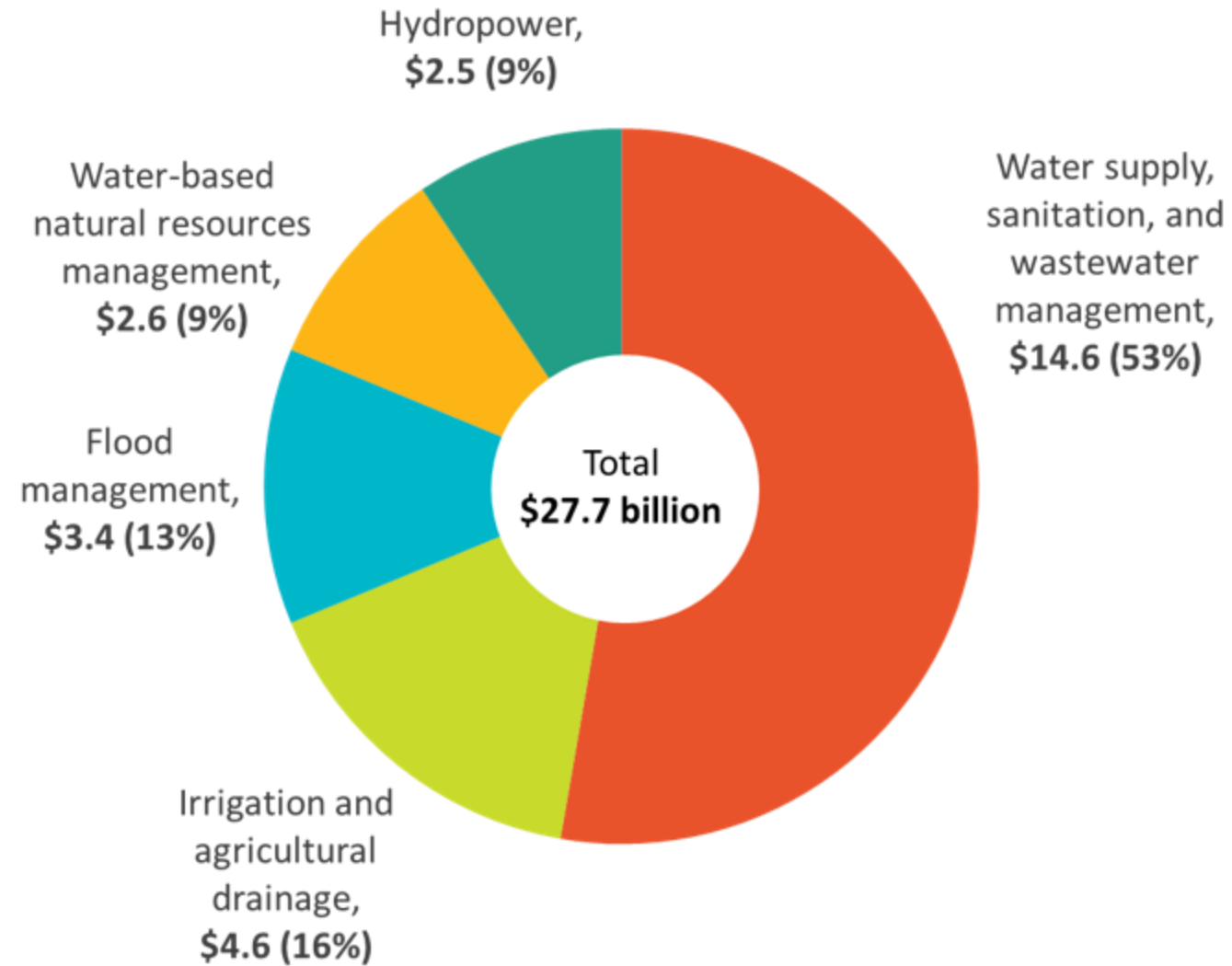


Regional Cooperation



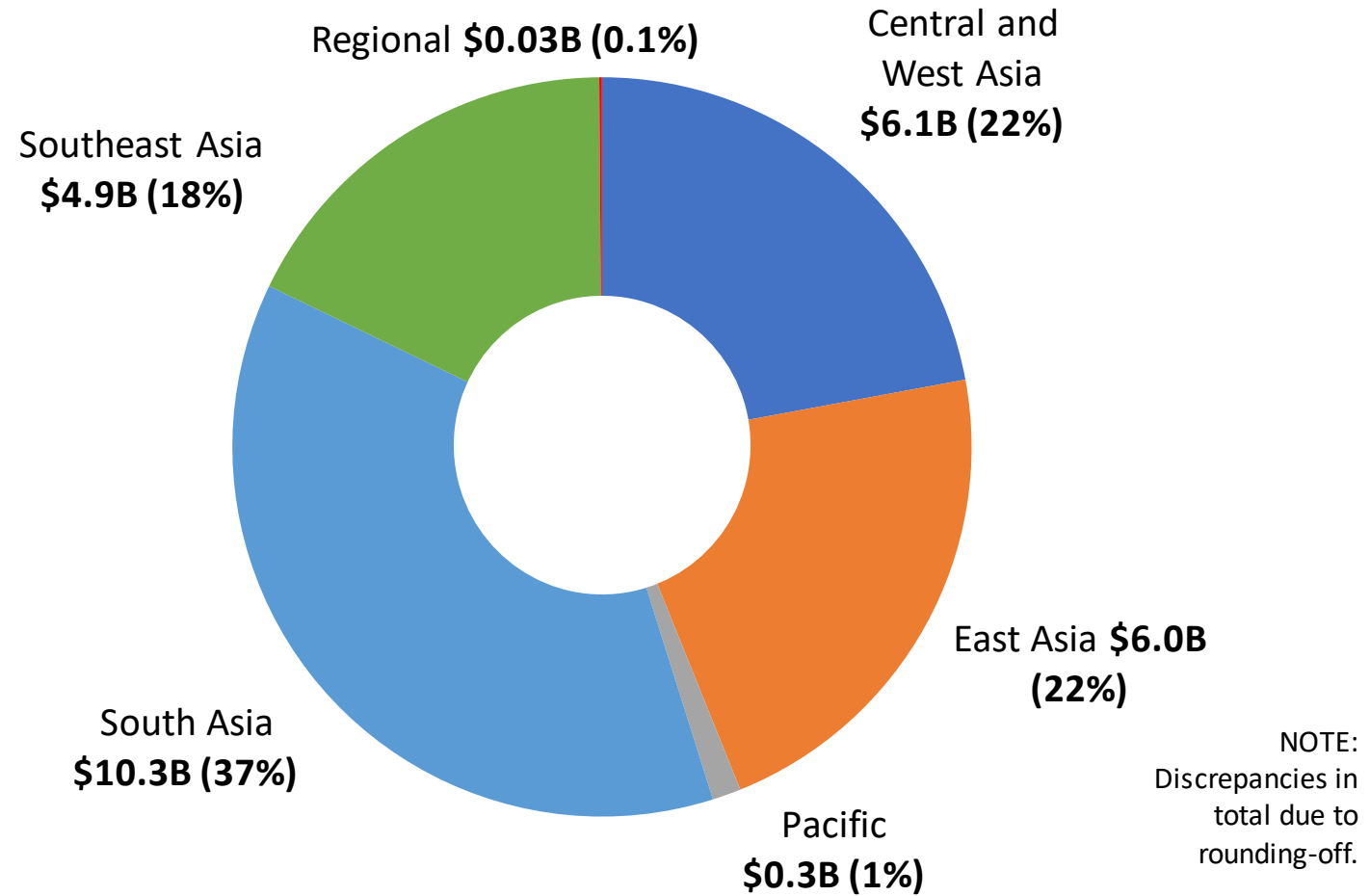
# ADB's Water Sector Portfolio

The total 2011-2022 water sector portfolio is around **\$27.7 billion**, directly supporting water security and resilience for an estimated **665 million people**.



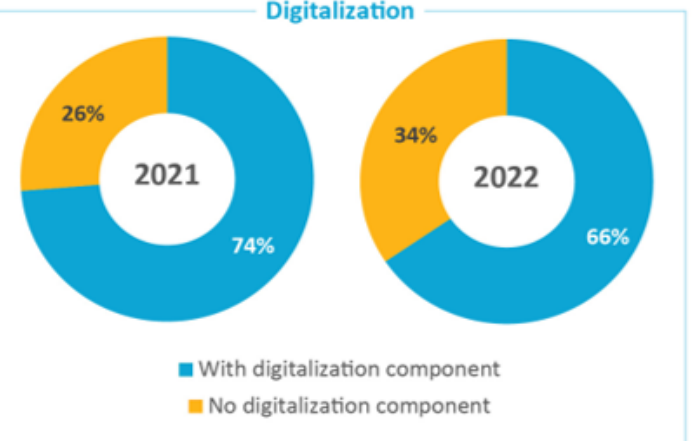
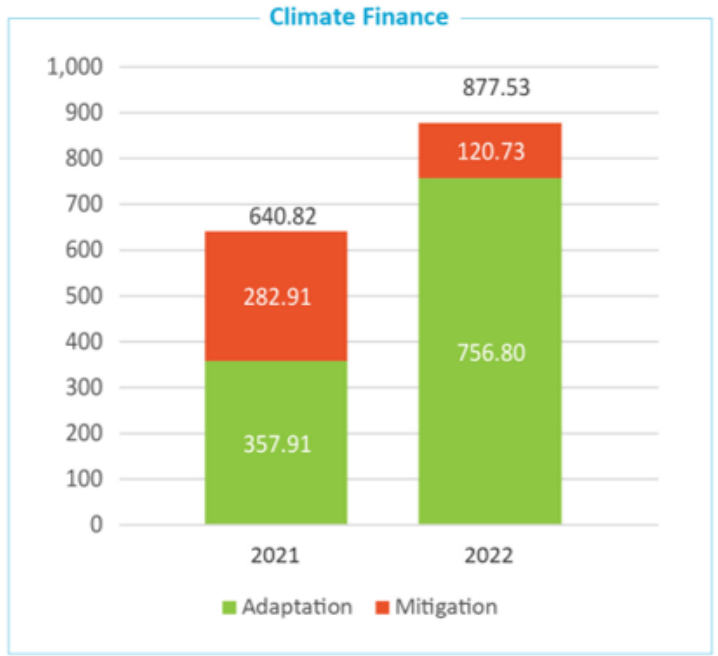
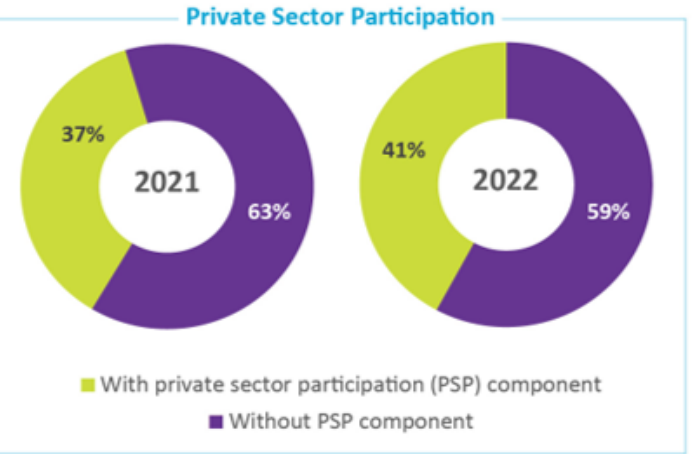
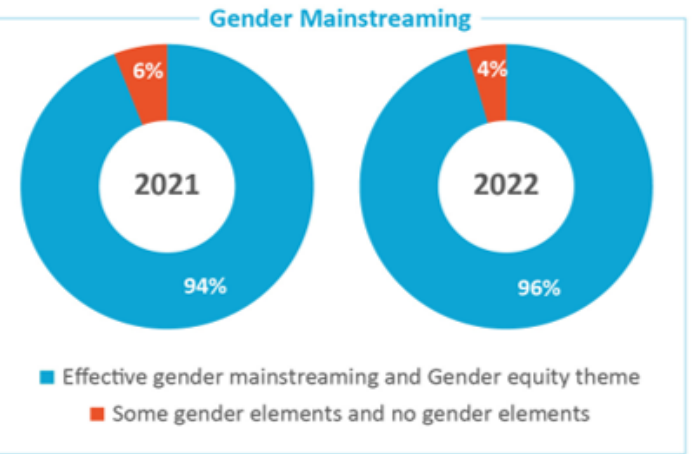
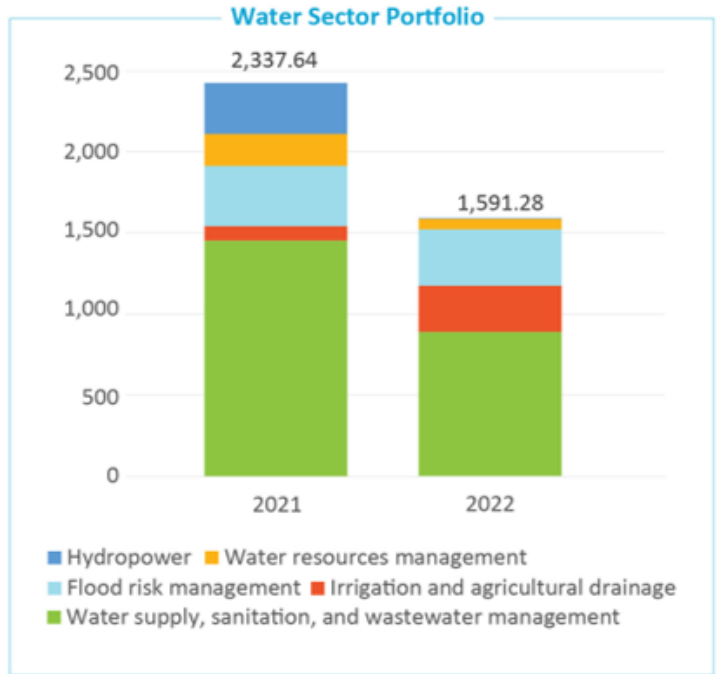
# ADB's Water Sector Portfolio

## Regional Breakdown



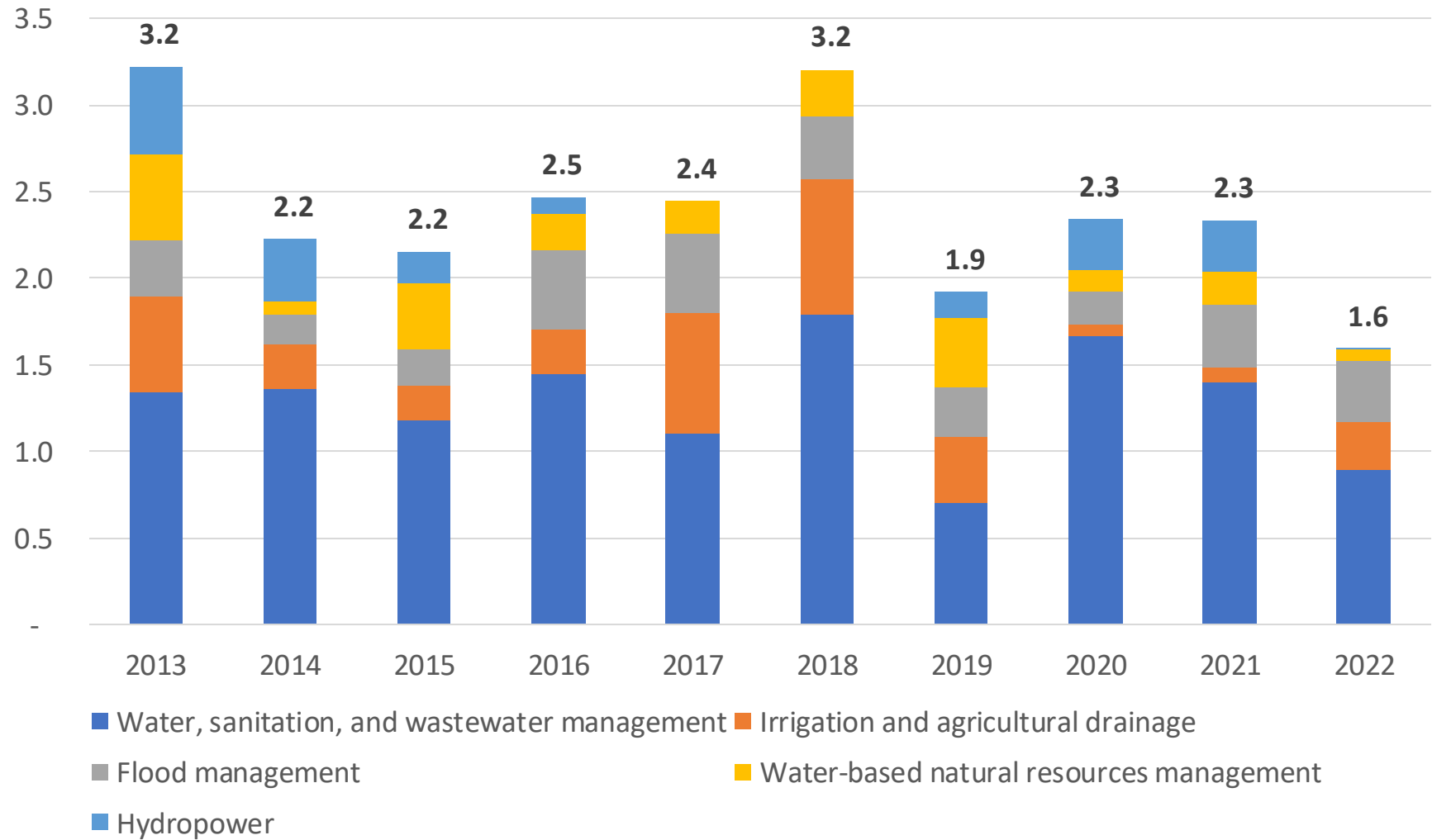
**\$27.7 billion** Amount of the total 2011-2022 water sector portfolio





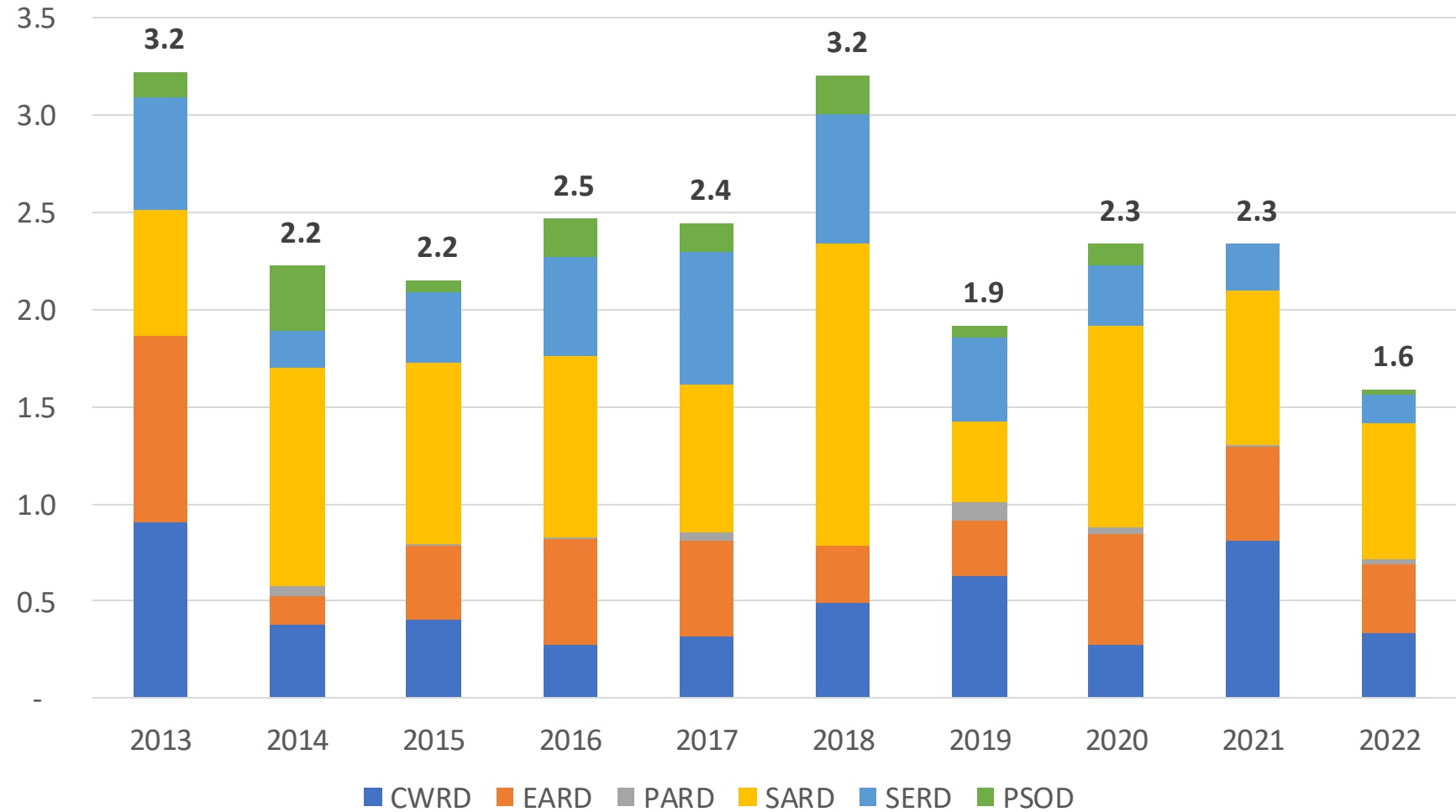
# WSG Lending History and Pipeline by Subsector

(in \$ Billion)



# WSG Lending History and Pipeline by Operations Department

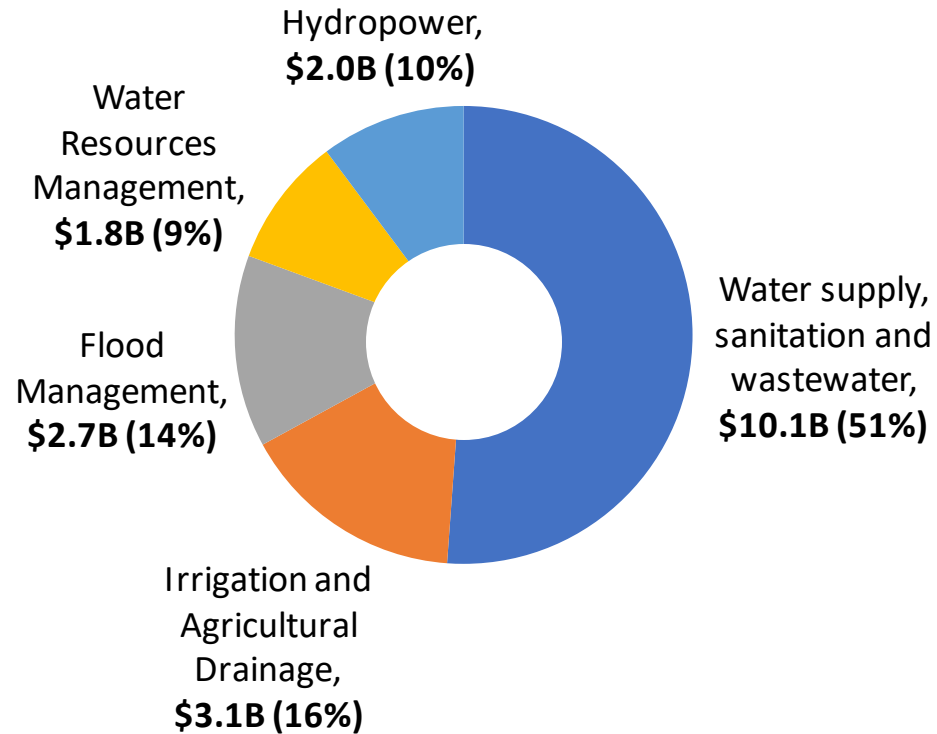
(in \$ Billion)



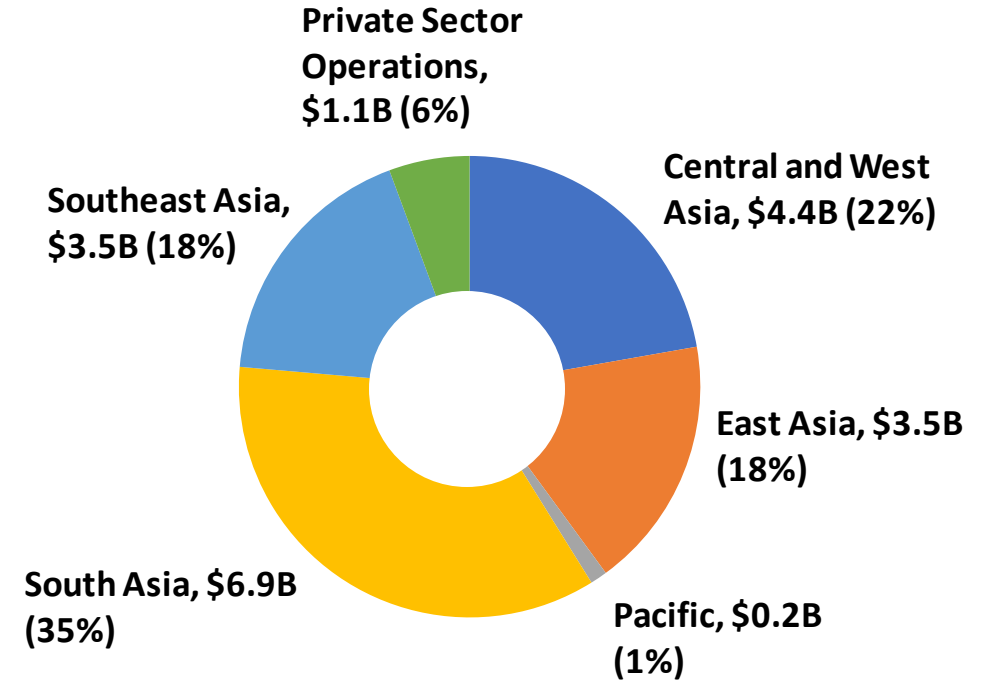
# ACTIVE WSG PORTFOLIO - \$19.7 billion

(in \$ Billion)

## SUBSECTOR



## OPERATIONS DEPARTMENT



# ADB's Water Sector Pipeline, 2022

(water component greater than USD100m)

Dept	Div	DMC	Project Title	Water Component (\$ million)
CWRD	CWER	UZB	Climate Adaptive Water Resources Management in the Aral Sea Basin Sector Project	153.00
CWRD	PRM	PAK	Emergency Flood Assistance Project	126.70
EARD	EAER	PRC	Fujian Xianyou Mulan River Basin Integrated Ecological Improvement & Environmental Management Project	143.59
EARD	EASS	PRC	Shandong West Jining Water Supply and Drainage Integration Program	101.15
SARD	SAER	BAN	Flood and Riverbank Erosion Risk Management Investment Program (Tranche 2)	157.00
SARD	SAUW	BAN	Dhaka Environmentally Sustainable Water Supply Project-Additional Financing	140.00
SARD	SAUW	BAN	Coastal Towns Climate Resilience Project	135.40
SARD	SAUW	IND	Tamil Nadu Urban Flagship Investment Program Tranche 3	125.00
SERD	SEUW	TIM	Dili West Water Supply Project	127.00

# ADB's Water Sector Pipeline, 2023

## (loan greater than USD180m)

Dept	Div	DMC	Project Title	Loan Component (\$ million)
EARD	EAER	PRC	Chishui River Basin Ecological Protection and Green Development	250.00
EARD	EASS	PRC	Jiangxi Ecological Civilization and Circular Economy Sector Development Program	200.00
EARD	EASS	PRC	Shanxi Changzhi Low-Carbon Climate-Resilient Circular Economy Transformation Project	300.00
EARD	EASI	PRC	Shanxi Low-carbon and Inclusive Rural Development Project	260.00
EARD	EASI	PRC	Yichang Rural Vitalization and Green Development Demonstration	200.00
SARD	SAUW	BAN	Improving Urban Governance and Infrastructure Program	300.00
SARD	SAUW	IND	Sustainable Urban Development and Service Delivery Program (Subprogram 2)	350.00
SARD	SAUW	IND	Rajasthan Secondary Towns Development Sector Project-Additional Financing	200.00
SARD	SAUW	IND	Uttarakhand Integrated and Resilient Urban Development Project -Additional Financing	200.00
SARD	SAUW	IND	Swachh Bharat Mission 2.0 - Comprehensive Municipal Waste Management Program in Indian Cities	200.00
SARD	SAUW	IND	Ahmedabad Peri-urban Livability Improvement Project	181.00
SERD	SEER	PHI	Integrated Flood Resilience and Adaptation Project 1	213.00
SERD	SEER	VIE	Climate Adaptive Integrated Flood Risk Management Project	200.00



# ADB's Water Sector Pipeline, 2024

(loan greater than or equal to USD150m)

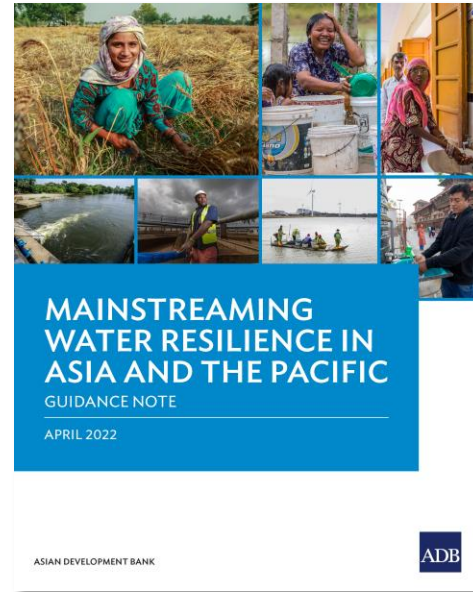
Dept	Div	DMC	Project Title	Loan Component (\$ million)
SARD	SAER	IND	Climate Adaptation in Vennar Subbasin in Cauvery Delta Project - Phase 2	175.00
SARD	SAER	IND	Climate Resilient Integrated Flood and Riverbank Erosion Risk Management Project	198.00
SARD	SAER	BAN	Flood and Riverbank Management (SDP) from Aricha to Chauhali Project	250.00
SARD	SAEN	NEP	Dudh Koshi Hydropower Project	440.00
EARD	EAPF	PRC	Guangxi Environmentally Sustainable Rural Development Demonstration	150.00
EARD	EAER	PRC	Hubei Huanggang Dabie Mountain Ecological Protection and Carbon Neutrality Green Development Project	200.00
EARD	EAER	PRC	South Dongting Lake Wetland Ecological Restoration and Sustainable Development Project	150.00
EARD	EAPF	PRC	China Industrial Park Carbon Neutrality Development Project	200.00
EARD	EASI	PRC	Ningbo Green and Low Carbon Development Project	200.00
CWRD	CWUW	UZB	Fergana Water Supply and Sanitation Project (formerly Sustainable Solid Waste Management Project Phase 2)	200.00
CWRD	CWER	PAK	Sustainable Food Security and Climate Resilient Agriculture Sector Development (formerly Climate Resilient Food Security and Agriculture Sector Development Program)	150.00

# ADB's Actions to Support Water Resilience in Asia and the Pacific

Asia and Pacific the most disaster affected region in the world, home to more than 40% of global calamities and 84% of people they affect.

ADB water sector group's latest initiatives on building resilience of water entities:

- **RUWR: aRe yoU Water Resilient** (Introductory video: [RUWR](#))
- **Guidance Note on Mainstreaming Water Resilience in Asia and the Pacific**
- **Water Resilience Hub for Asia and the Pacific (add link)**



Putting **climate adaptation as the driver** and at the core of projects and policies

**Building resources and capacities of water entities on the ground** for climate action and **green, inclusive, and resilient post-pandemic recovery of Asia and the Pacific**

# THANK YOU!

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