



# Business Opportunities Water Sector at ADB

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# ADB Countries with High Baseline Water Stress

## Extremely High Water Stress

- India
- Pakistan
- Turkmenistan

## High Water Stress

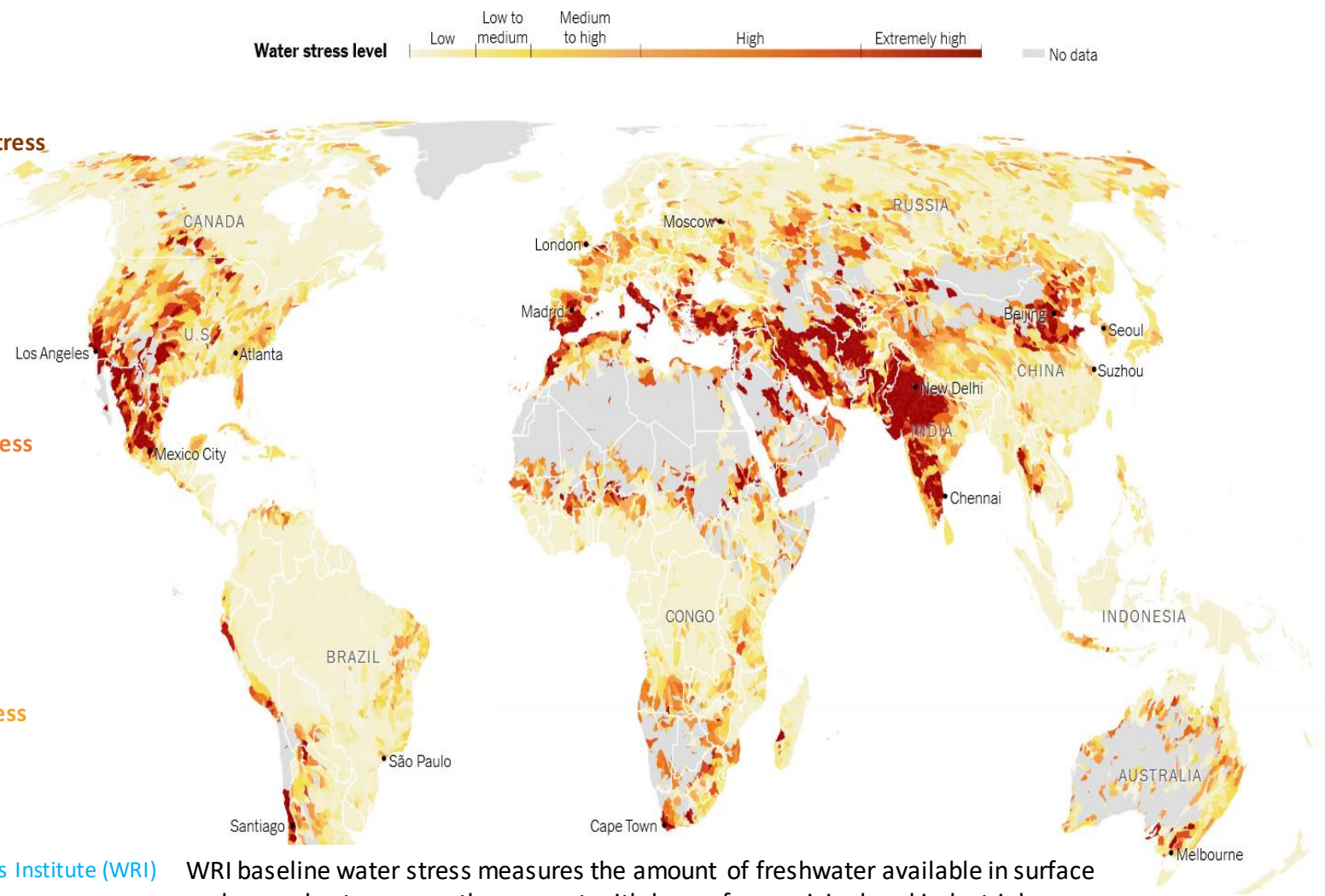
- Uzbekistan
- Afghanistan
- Armenia
- Kyrgyzstan
- Nepal

## Medium-High Water Stress

- Thailand
- Azerbaijan
- Australia
- Tajikistan
- South Korea
- Mongolia
- China
- Kazakhstan

## Low-Medium Water Stress

- Philippines
- Georgia



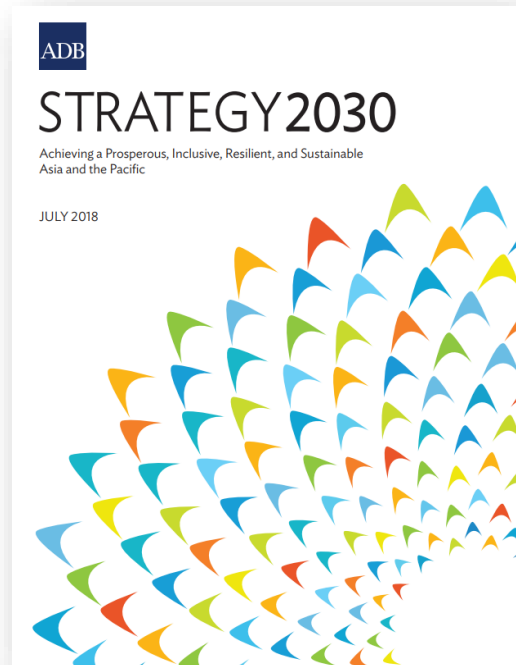
World Resources Institute (WRI)

WRI baseline water stress measures the amount of freshwater available in surface and groundwater versus the amount withdrawn for municipal and industrial uses. Higher values indicate higher water risk.

# 1 | Overview of ADB's Water Sector



# Strategy 2030



- 1 Strategy
- Plans for 7 Operational Priorities
- Frameworks for 15 Sectors and Thematic Areas



# Water Sector's Contribution to Strategy 2030



## OP1 | Addressing Remaining Poverty and Reducing Inequalities

Access to water supply and sanitation with a focus on the poor, agriculture, and employment

(SDGs 6.1, 6.2, 6.3)



## OP5 | Promoting Rural Development and Food Security

Watershed management, irrigation efficiency, and agricultural water productivity

(SDGs 2.3, 2.4, 6.1, 6.2, 6.4, 15.1)



## OP2 | Accelerating Progress in Gender Equality

Access to water supply and sanitation, improved security through safe sanitation, and reducing time and drudgery for women

(SDGs 5a, 6.1, 6.2)



## OP6 | Strengthening Governance and Institutional Capacity

Strengthening public and private institutions for improved water management and service delivery

(SDG 6b)



## OP3 | Tackling Climate Change, Building Disaster Resilience

Flood, drought and other water-related disasters; Nature-based solutions (e.g., flood management), and payment for ecosystem services; Water-food-energy security nexus, integrated water resources management, and water quality

(SDGs 1.5, 13.1; 5a, 6.1, 6.2; 6.6, 14.b, 15.2; 6.3, 6.5, 15.1)



## OP7 | Fostering Regional Cooperation and Integration

Increasing water security, strengthening cooperation on watershed management, and enhancing transboundary water cooperation

(SDGs 6.5.3, 6a)



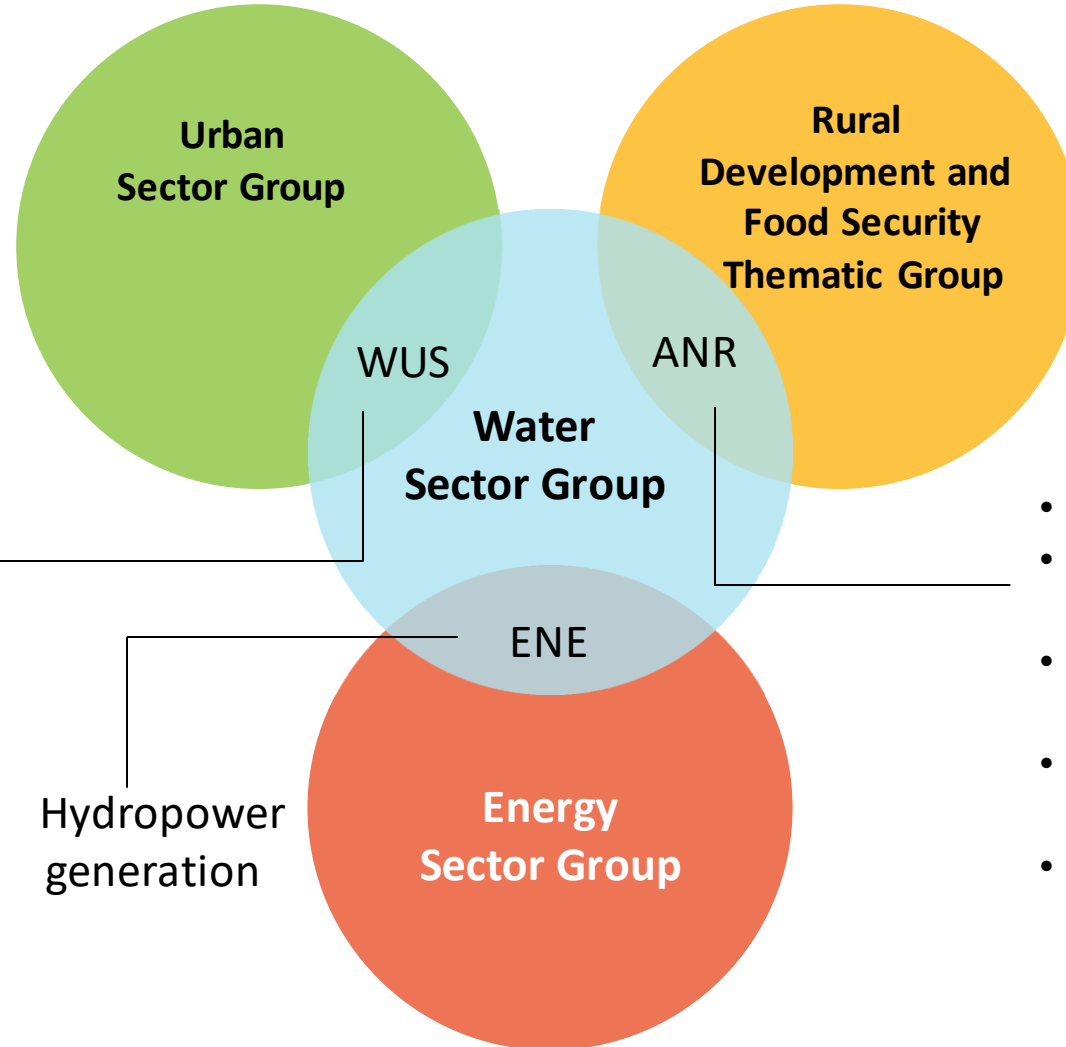
## OP4 | Making Cities More Livable

Flood risk management, water supply and sanitation, water quality, and water reuse

(SDGs 6.1, 6.2, 6.3, 11.b)

# Water is cross-cutting and links the water-food-energy security nexus

- Urban water supply
- Urban sanitation and sewerage
- Urban flood risk management



- Hydropower generation

- Irrigation and drainage
- Rural water supply and sanitation
- Integrated water resources management
- Rural flood risk management
- Environment

ANR = agriculture, natural resources, and rural development; ENE = energy; WUS = water and other urban infrastructure services

# Innovation Trends Highlighted in Water Projects

**1. Technology and data management** - *GIS for asset management, decision support systems, supervisory control and data acquisition (SCADA), smart customer meters, wireless sensor and pressure management, district metered areas, solar powered wastewater treatment, reuse of wastewater, remote sensing/satellite images for agriculture and disaster management*

- Georgia: Sustainable Water Supply and Sanitation Sector Development Program
- Lao PDR: Sustainable Rural Infrastructure and Watershed Management Sector Project
- India: Tamil Nadu Urban Flagship Investment Program
- Solomon Islands: Urban Water Supply and Sanitation Sector Project
- Indonesia: Emergency Assistance for Rehabilitation and Reconstruction

**2. More innovative financing and transaction mechanisms** - *results based lending, sector development programs, local currency, bonds, prepaid metering, public private partnership, design build operate contracts*

- Georgia: Sustainable Water Supply and Sanitation Sector Development Program
- Kazakhstan: Irrigation Rehabilitation Project

**3. Focus on asset management** - *asset management plans developed, sustainable financing /cost recovery, application of high technology/GIS, non-revenue water reduction*

- Georgia: Sustainable Water Supply and Sanitation Sector Development Program
- Kazakhstan: Irrigation Rehabilitation Project

# Innovation Trends Highlighted in Water Projects

**4. Governance, performance and capacity building reforms** - *water users associations, utility and regulatory reforms, tariff setting, non-revenue water, private sector management, performance-based urban governance incentives, precision irrigation using remote sensing*

- People's Republic of China: Integrated Wastewater Management Project
- Bangladesh - Climate and Disaster Resilient Small-Scale Water Resources Management Project
- Georgia: Sustainable Water Supply and Sanitation Sector Development Program
- India: Tamil Nadu Urban Flagship Investment Program
- Lao PDR: Sustainable Rural Infrastructure and Watershed Management Sector Project

**5. Integrated water sector activities, climate and resilience, environment** – *stronger urban and rural linkages, environment conservation, promotion of nature-based solutions and sponge cities for flood management, disaster and climate resilient infrastructure*

- Indonesia: Emergency Assistance for Rehabilitation and Reconstruction
- People's Republic of China: Jilin Yanji Low-Carbon Climate-Resilient Healthy City Project
- People's Republic of China: Henan Dengzhou Project
- Lao PDR: Sustainable Rural Infrastructure and Watershed Management Sector Project
- Solomon Islands: Urban Water Supply and Sanitation Sector Project



# Water Financing Partnership Facility

established in November 2006

As of June 2020, the number of project beneficiaries from WFPF-supported projects stands at 117.55 million, exceeding the target of 115 million.



**72.23 million people**

with access to safe drinking water supply and improved sanitation



**30.62 million people**

with reduced risks to flood



**14.70 million people**

million people with access to more efficient and productive irrigation and drainage services

**117.55**  
million people

## Committed Contributions (\$ million)

Financing Partners	Amount
<b>Multidonor Trust Fund</b>	<b>53.2</b>
Australia	24.9
Austria	8.5
Norway	4.6
Spain	10.0
Switzerland	5.2
<b>Netherlands Trust Fund</b>	<b>44.3</b>
<b>Sanitation Financing Partnership Trust Fund</b> (Bill & Melinda Gates Foundation)	<b>19.0</b>
<b>Total</b>	<b>116.5</b>

# Technical Assistance and Capacity Building (Ongoing)

## **Knowledge and Innovation Support for ADB's Water Financing Program**

*(closing December 2020)*

- 61 pilot and demonstration activities
- 76 Water Operators' Partnerships to improve sustainability of ADB's water projects
- \$12.3 million specialist support for project preparation and implementation

## **Strengthening Integrated Flood Risk Management** *(closing December 2021)*

- Supports 8 countries in capacity building improve resilience to flood risk and is directly linked to upstream work for Operational Department project preparation

## **Achieving ADB's Water Sector Priorities Under Strategy 2030** *(November 2019 – October 2024)*

- facilitate testing of innovative approaches in ADB Projects
- provide specialist support for Operational Department project preparation and implementation

## **Accelerating Sanitation for All in Asia and the Pacific** *(December 2019 to December 2023)*

- support the development of inclusive sanitation programs – focus on policy frameworks and investment planning

# Technical Assistance and Capacity Building (Pipeline)

## **Strengthening Integrated and Effective Water and Health Outcomes in Asia and the Pacific (2020)**

- COVID-19 IPC and impact mitigation through WASH+H awareness and community engagement
- Promoting policy dialogue and strategies, capacity building and partnerships towards preparedness, resilience and sustainable recovery from COVID-19

## **Corporate TA on Improving Infrastructure Sustainability through Better Asset Management (2021)**

- cross-sectoral collaboration between Water, Transport and Energy Sector Groups
- support projects under development to asset management programs
- support projects under implementation for more robust asset management programs
- projects to be jointly identified with operations departments

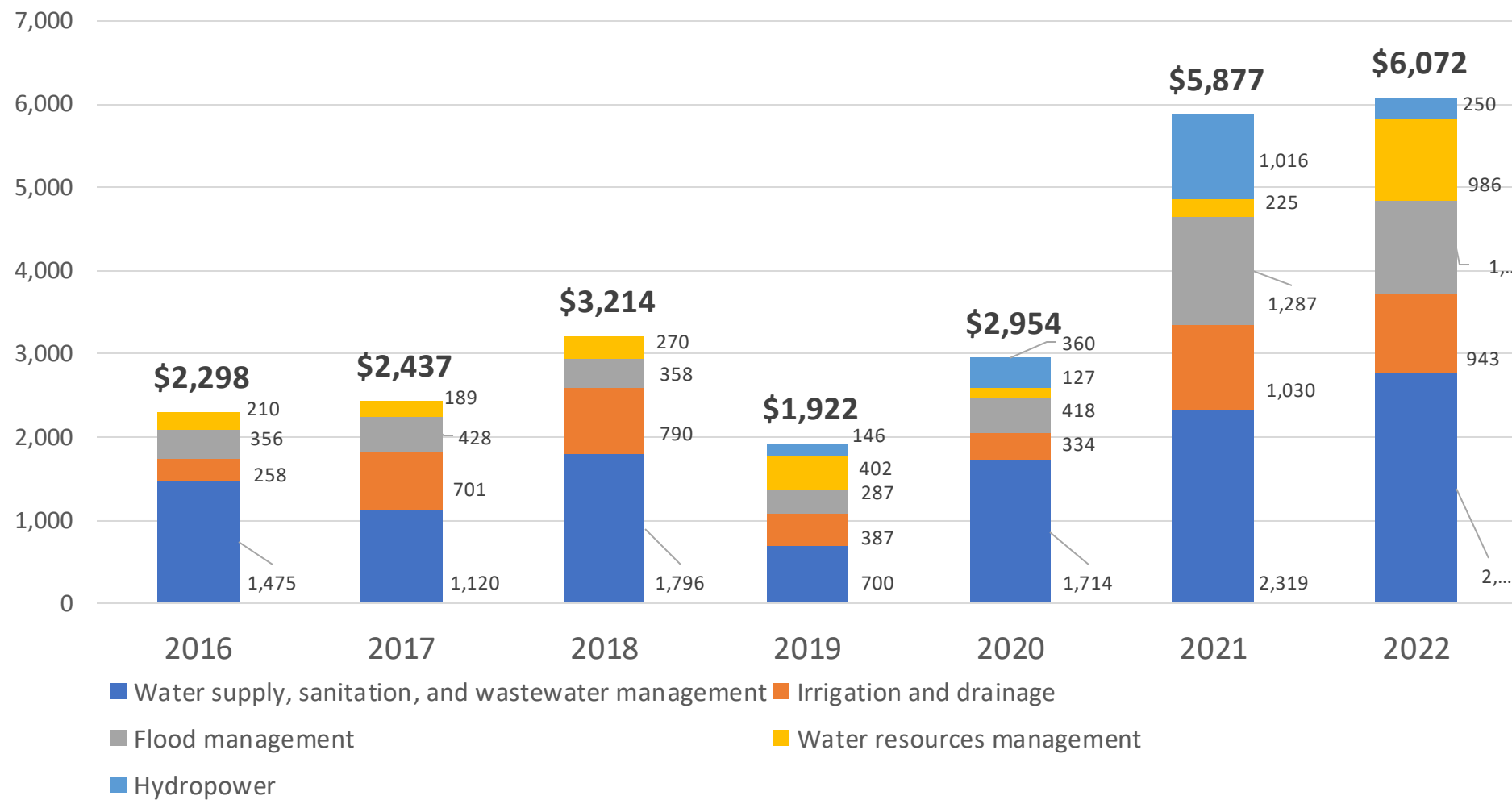
## **Improving Water Sanitation Utility Performance and Resilience in Asia and the Pacific (2021)**

- help create the enabling environment for increased operational efficiency and sustainable financing for water and sanitation services, including wastewater treatment and reuse, through:
  - update information on utilities, including operational and financial aspects, and their level of climate risk resilience and provide capacity building activities
  - specialist support to prepare performance improvement plans for utilities
  - specialist expert support in preparing and implementing projects

# 2 | WSG Operations and Achievements

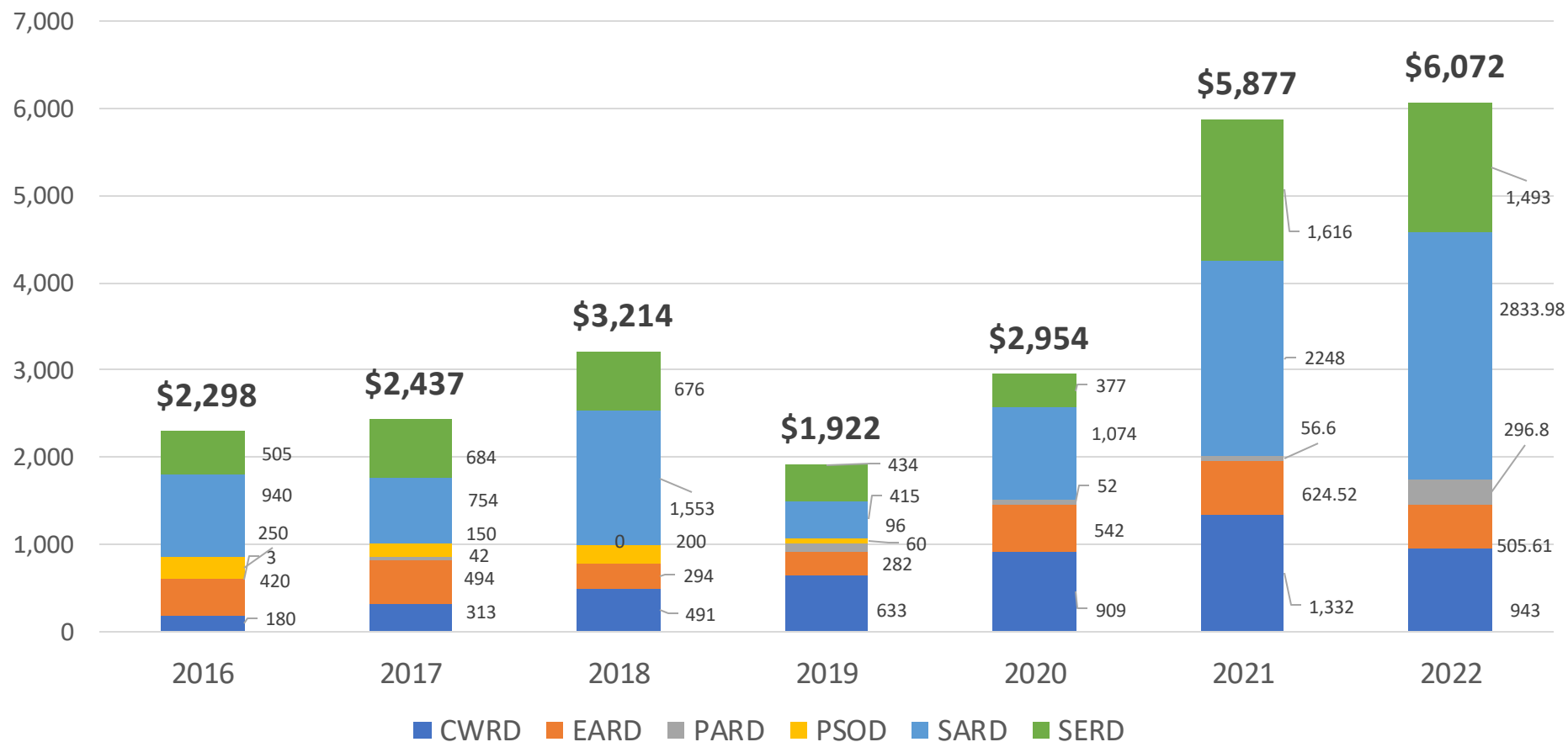
# WSG Lending History and Pipeline by Subsector

(in \$ Million)



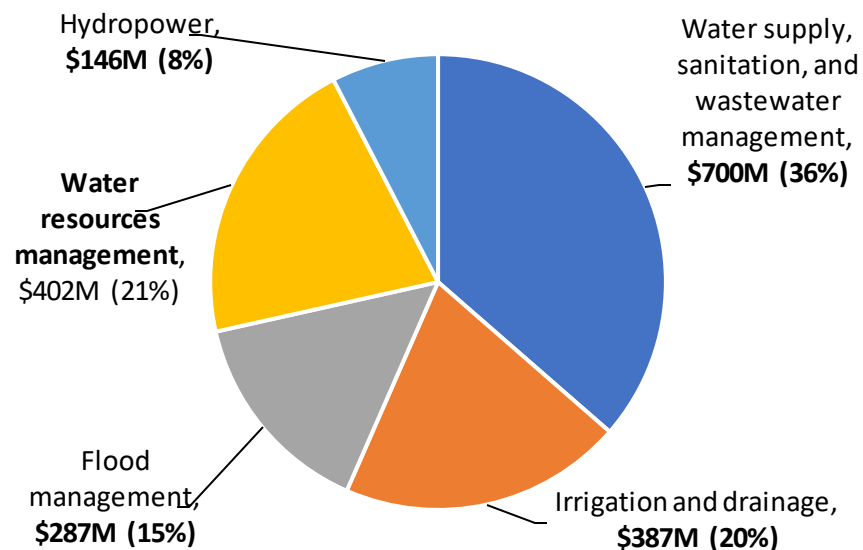
# WSG Lending History and Pipeline by Operational Department

(in \$ Million)

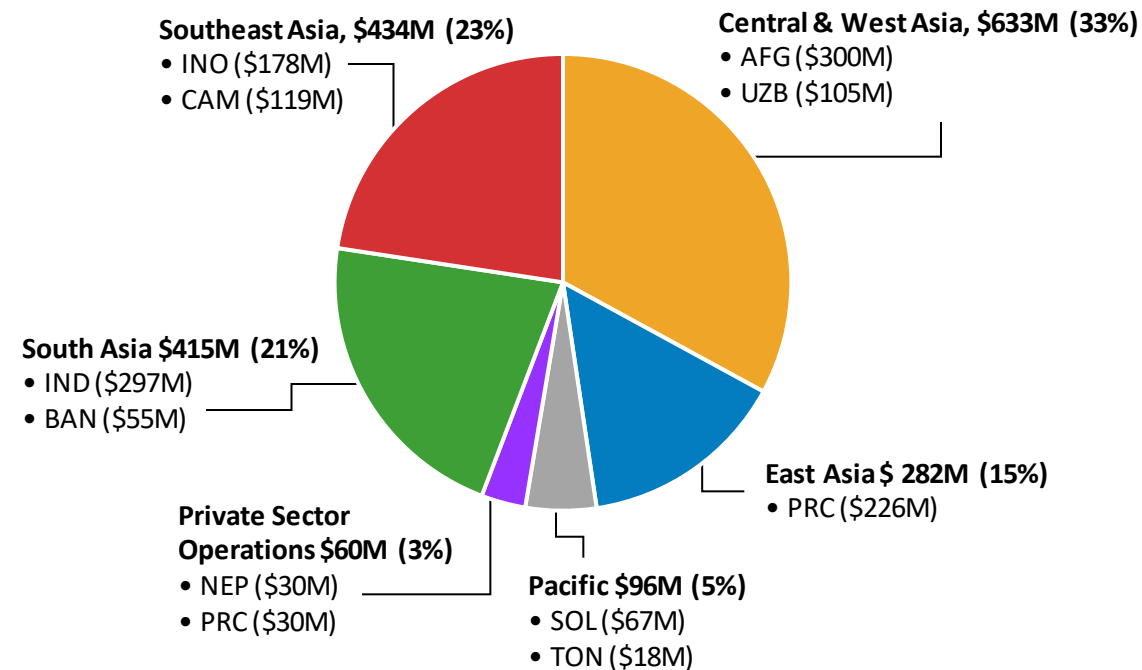


# Water Investments in 2019 - \$1.92 billion

## BY SUBSECTOR



## BY REGION

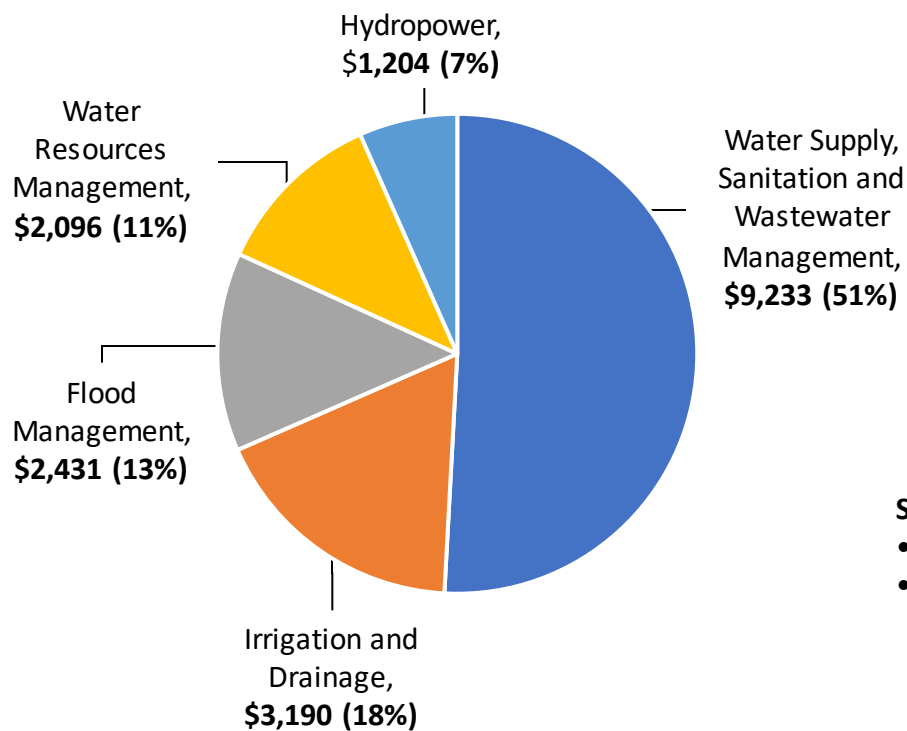


**“Water Projects” comprised 9% (\$1.92 billion) of ADB’s 2019 Portfolio (\$21.64 billion). The largest sector is transport (35%) and public sector management (14%) in 2019.**

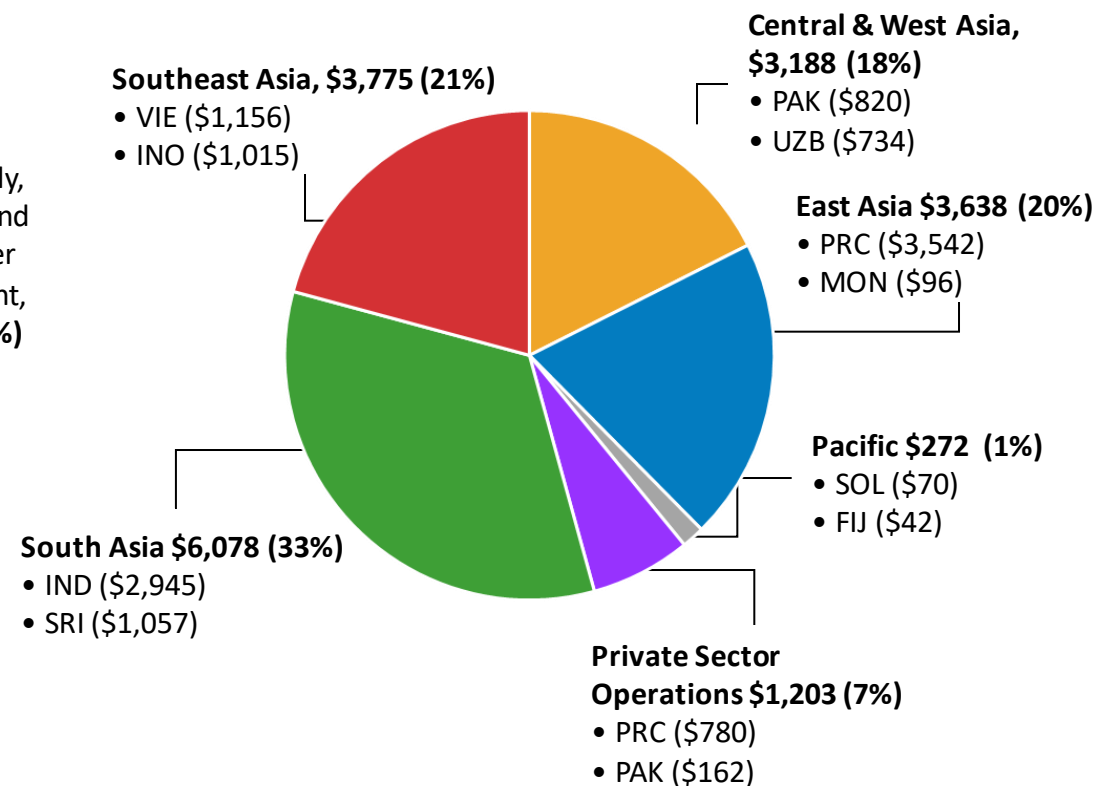
# ACTIVE WSG PROJECTS

(in \$ Million, as of July 2020)

## BY SUBSECTOR



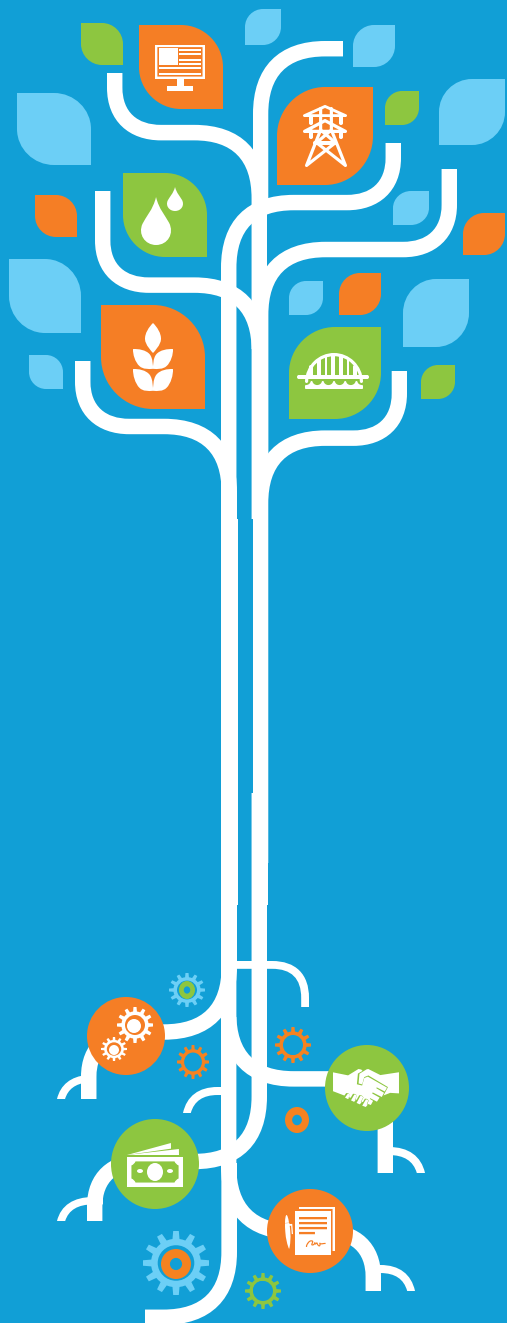
## BY OPERATIONS DEPARTMENT





## Advise and next steps:

- Study the Country Partnership Strategy (CPS) and Country Operations Business Plan (COBP)
- Study ADB project cycle: preparation, approval, implementation, completion/evaluation
- Register in ADB Consultant Management System
- If interested in water projects, look under the following project categories: ANR (Agriculture & Natural Resources), ENE (Energy), WUS (Water & Urban Infrastructure services)
- Make yourself known and express interest to ADB (HQ and Resident Mission)
- Find good local partners
- Review procurement plans
- Follow Guidelines



# THANK YOU!

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