



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

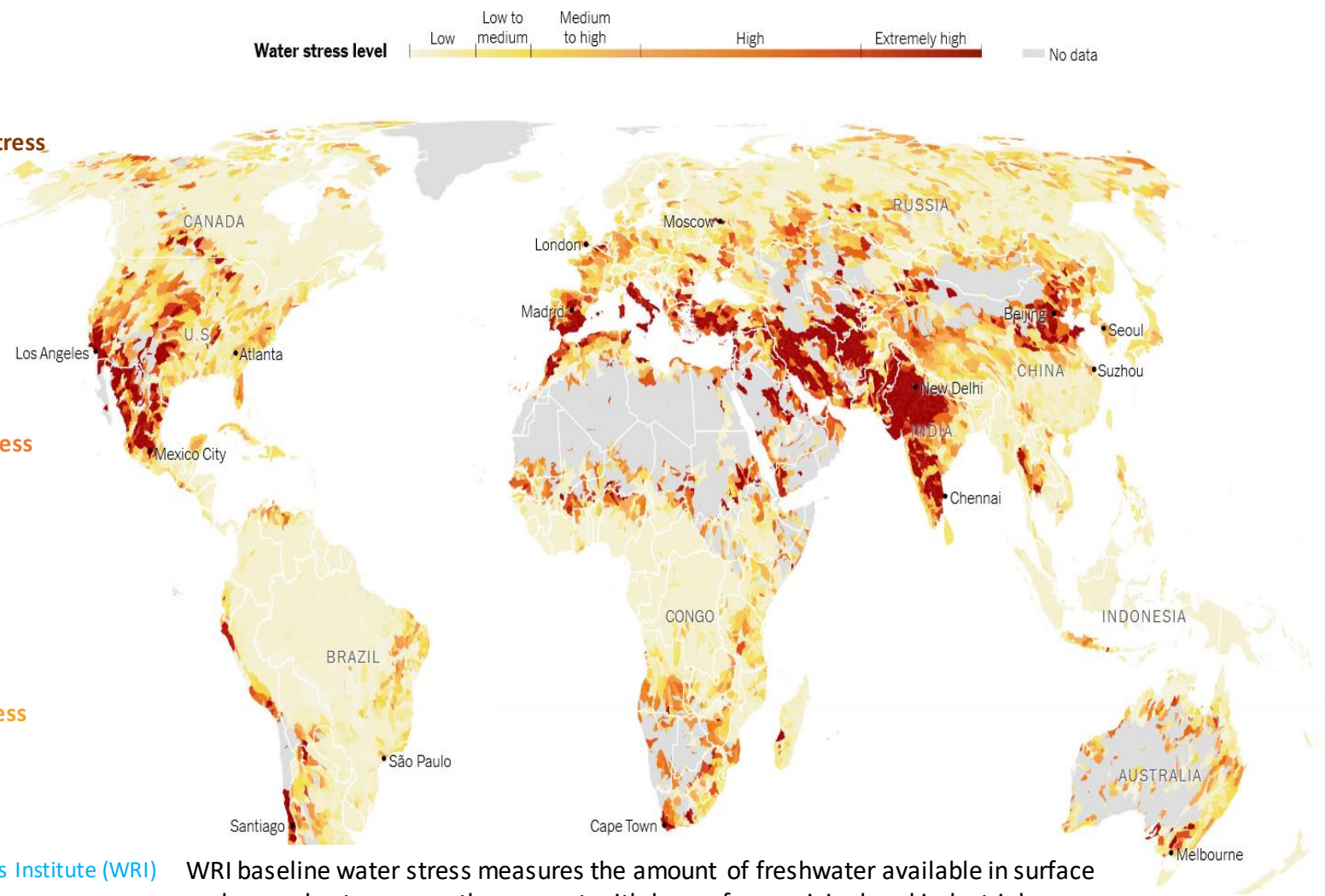
- Uzbekistan
- Afghanistan
- Armenia
- Kyrgyzstan
- Nepal

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WRI baseline water stress measures the amount of freshwater available in surface and groundwater versus the amount withdrawn for municipal and industrial uses.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

Global Water Challenge: Key Facts

- **Insufficient funds**

Required: \$114 billion investments/year

But:

- Available: Less than \$5 billion (donor funds)
- Public funds are not enough
- Private finance (total: \$157.2 billion):

Only 1.36% (\$2.14 billion) invested in water & sanitation (2012-2017)

1 | Overview of ADB's Water Sector

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)



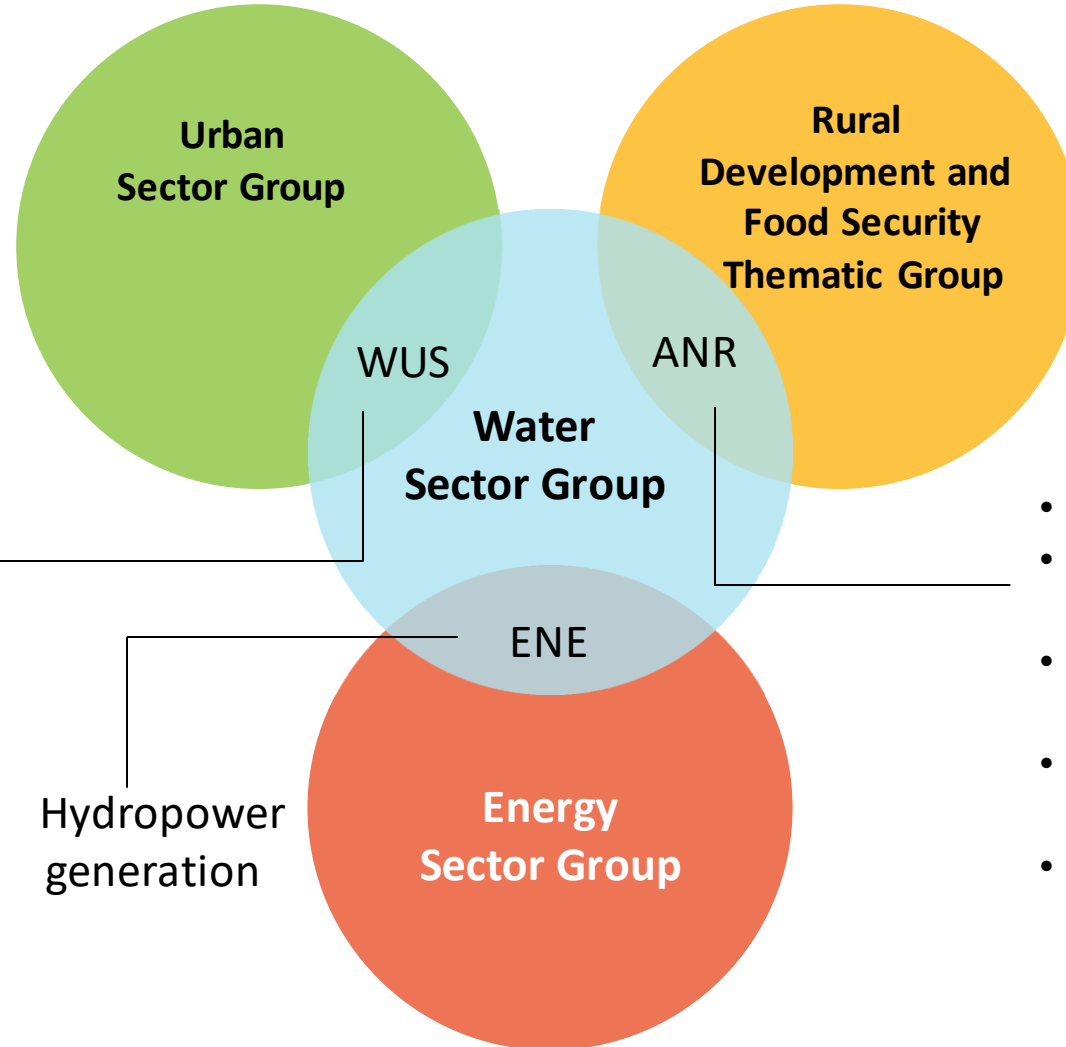
OP4 | Making Cities More Livable

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

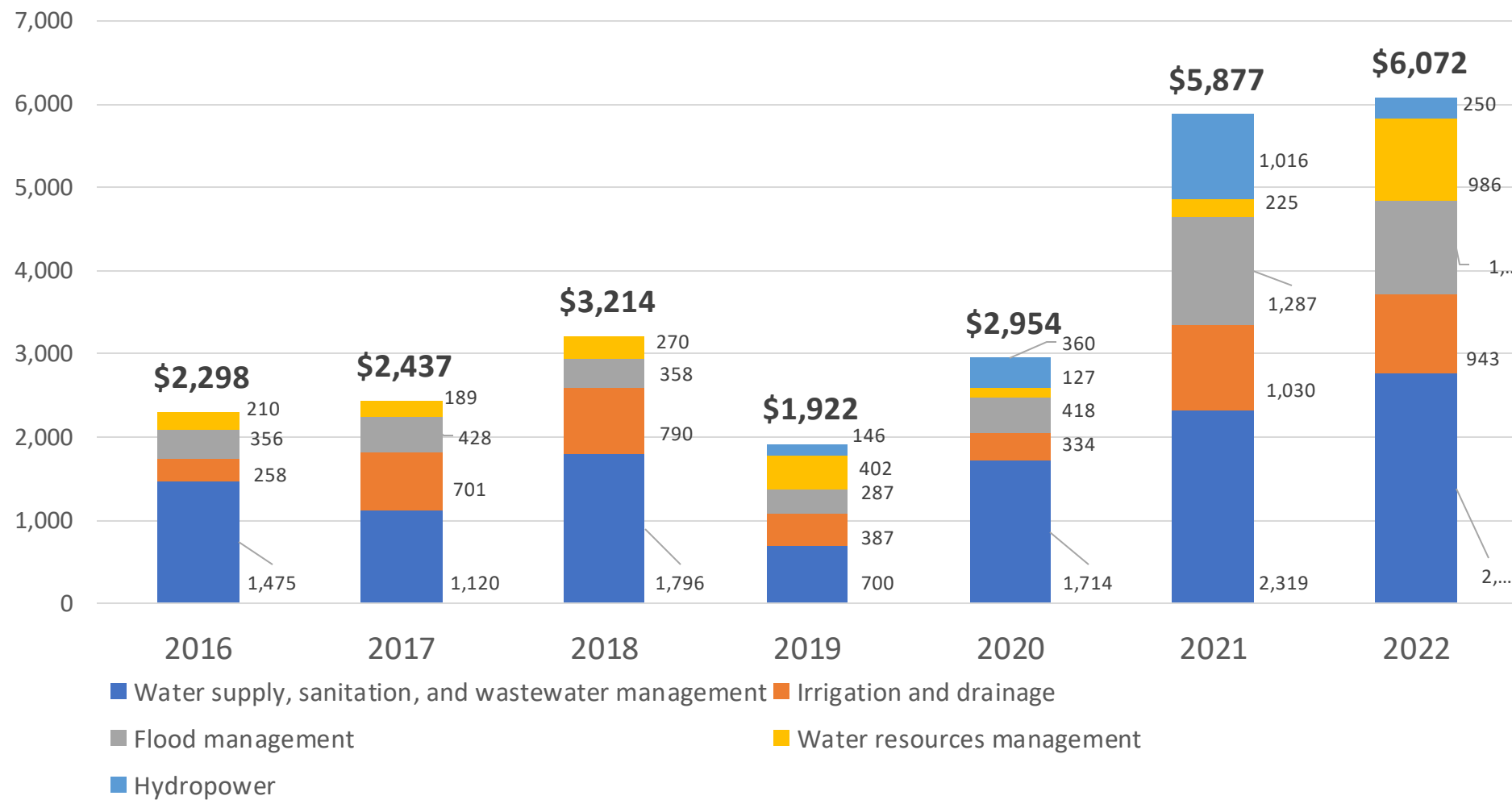
5. Integrated water sector activities, climate and resilience, environment – *stronger urban and rural linkages, environment conservation, promotion of nature-based solutions and sponge cities for flood management, disaster and climate resilient infrastructure*

- 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

2 | **WSG Operations and Achievements**

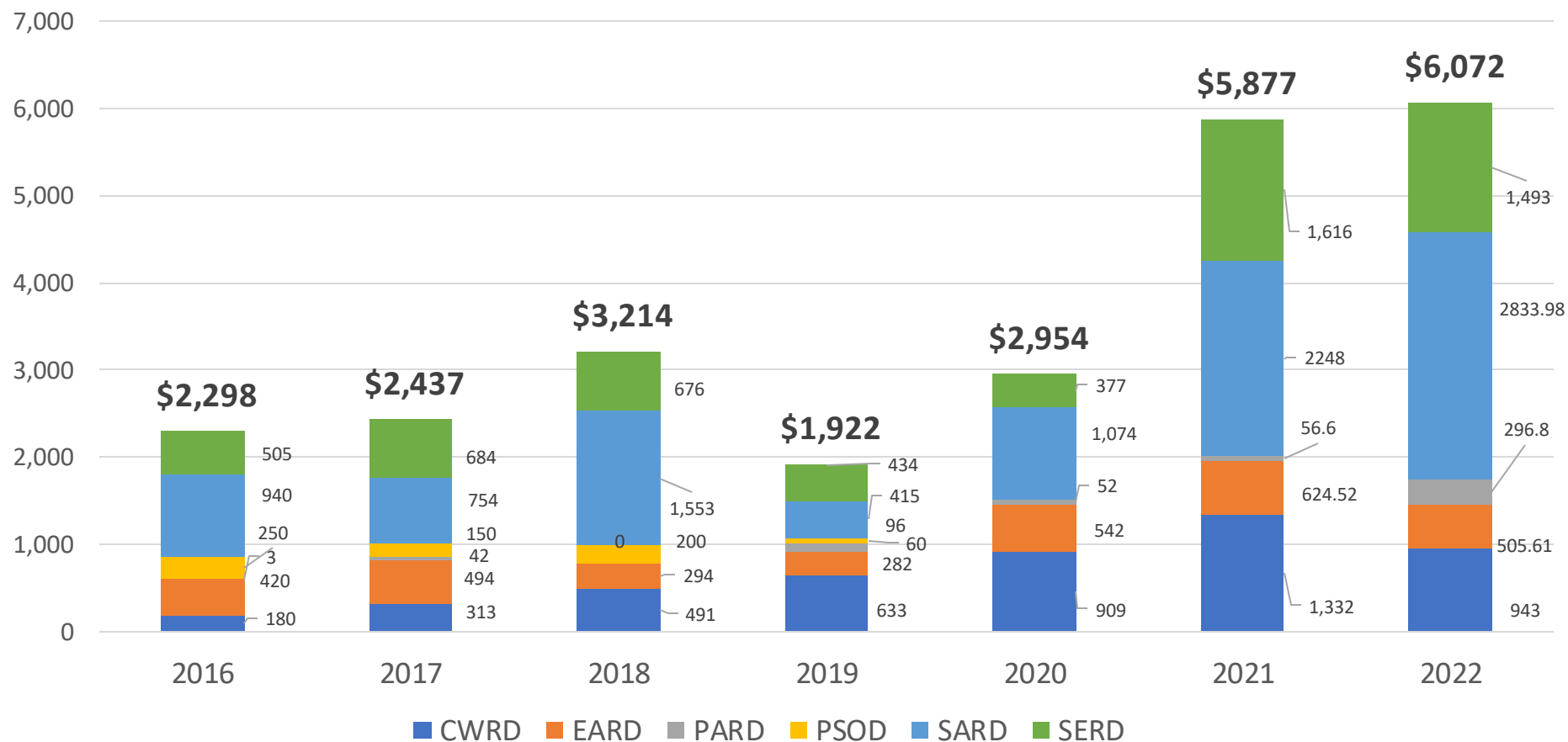
WSG Lending History and Pipeline by Subsector

(in \$ Million)



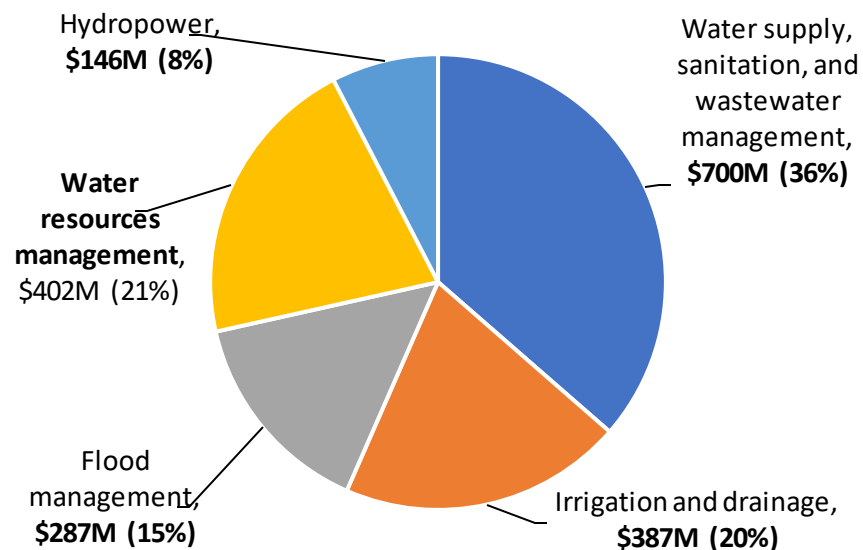
WSG Lending History and Pipeline by Operational Department

(in \$ Million)

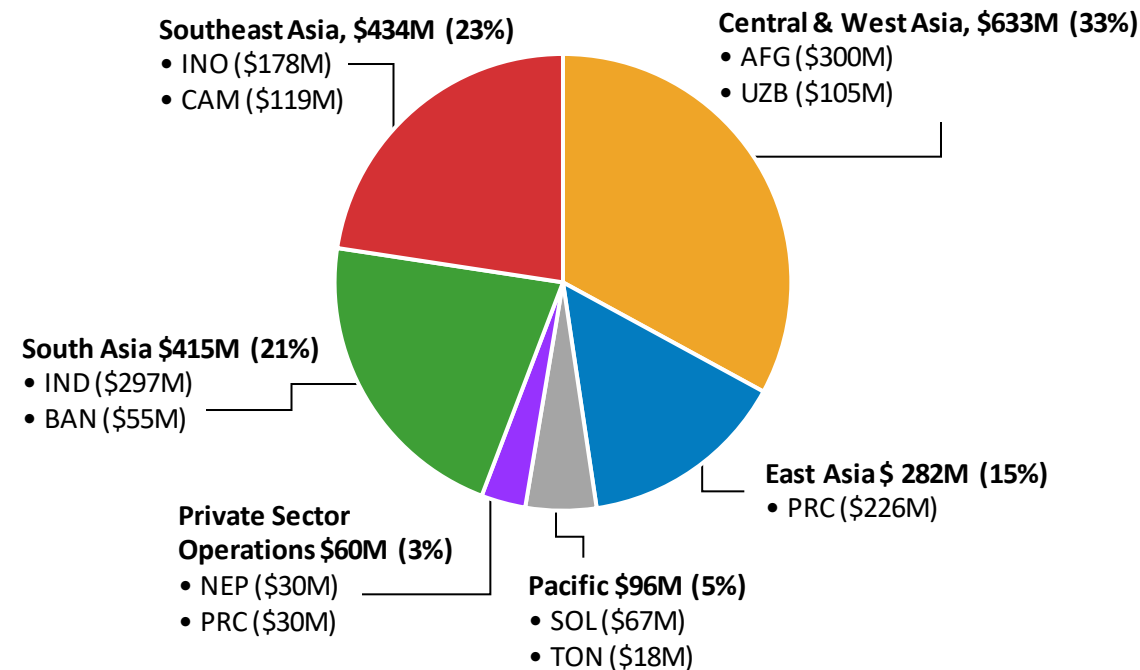


Water Investments in 2019 - \$1.92 billion

BY SUBSECTOR



BY REGION

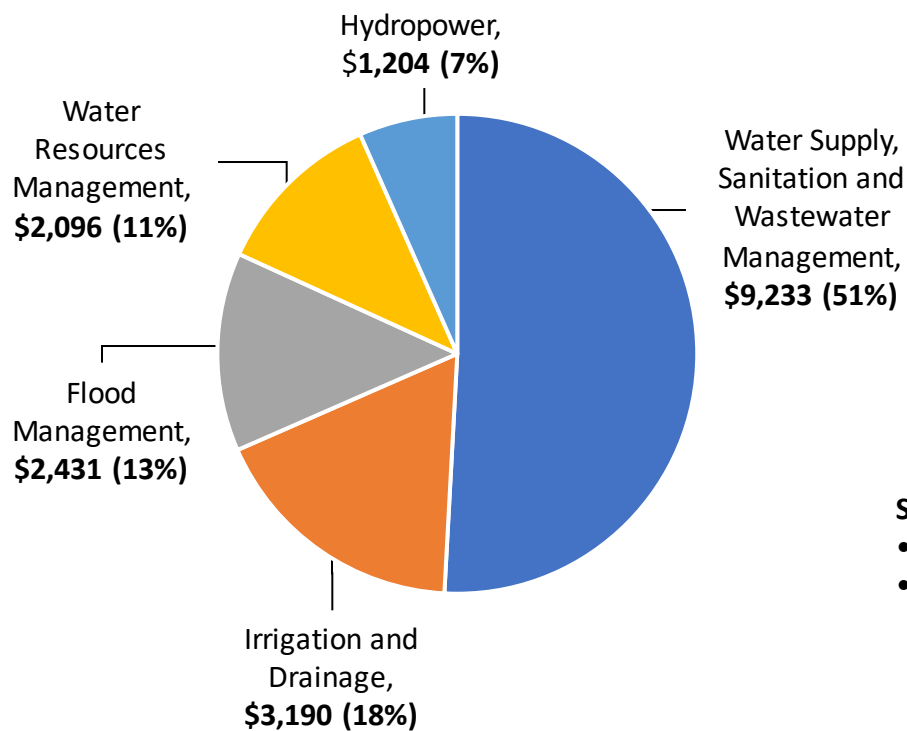


“Water Projects” comprised 9% (\$1.92 billion) of ADB’s 2019 Portfolio (\$21.64 billion). The largest sector is transport (35%) and public sector management (14%) in 2019.

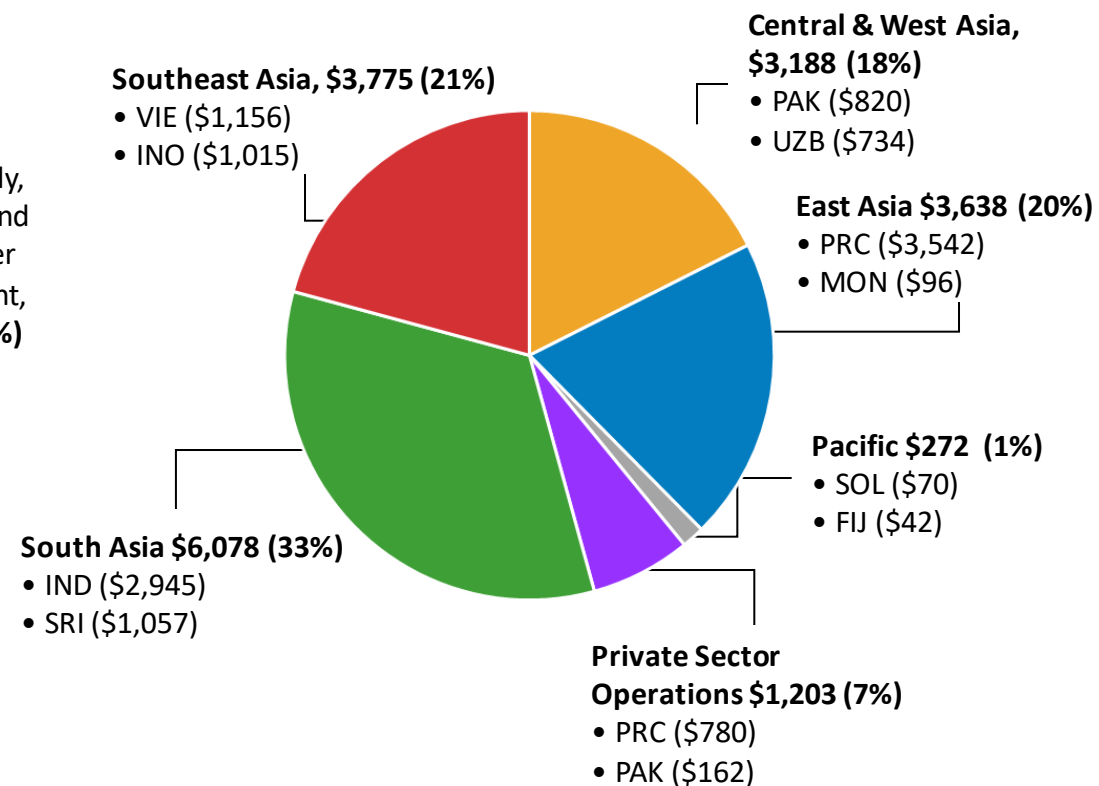
ACTIVE WSG PROJECTS

(in \$ Million, as of July 2020)

BY SUBSECTOR



BY OPERATIONS DEPARTMENT



3 | **Water and Sanitation in re-building post COVID-19**

ADB Water Sector Group Challenge: “Making Water Count”

- **Bridge the Service and Finance gaps:**
“missing link between solution and funding”
- **Innovation, sustainability and inclusion**
What? How? for Whom ? :
 - Using grant money to **mobilize public & private capital**
 - Supporting **innovations** to **scale** up
 - Identifying **viable solutions**: “make solutions investment ready”
 - Catalyzing an **enabling environment**: “missing middle”



Key themes WASH:

Drinking water

Safe Water Enterprises

Household water treatment & safe storage

Sanitation

Toilet economy

Circular sanitation economy

Water Resources Management

Recharge, Retention and Reuse (3R)

Water efficiency



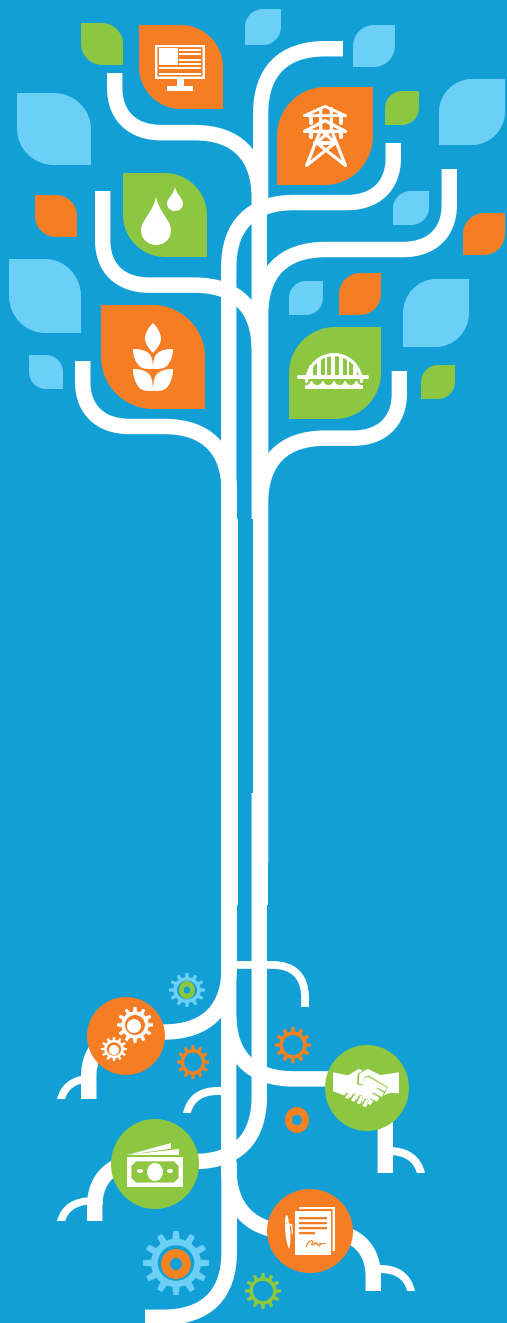
Water and Sanitation (post) COVID-19:

5 areas to focus on:

- Raise public awareness about hand hygiene
- Strengthen infection prevention and control
- Guarantee that everyone has access to a minimum level of water and sanitation
- Ensure the continuity and safety of water and sanitation services
- Provide practical and financial support to water and sanitation service providers

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
- Make yourself known and express interest to ADB (HQ and Resident Mission)
- Find good local partners
- Review procurement plans and follow Guidelines



THANK YOU!

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