

10th BUSINESS OPPORTUNITIES FAIR 2019



Water Sector Group

Tom Panella

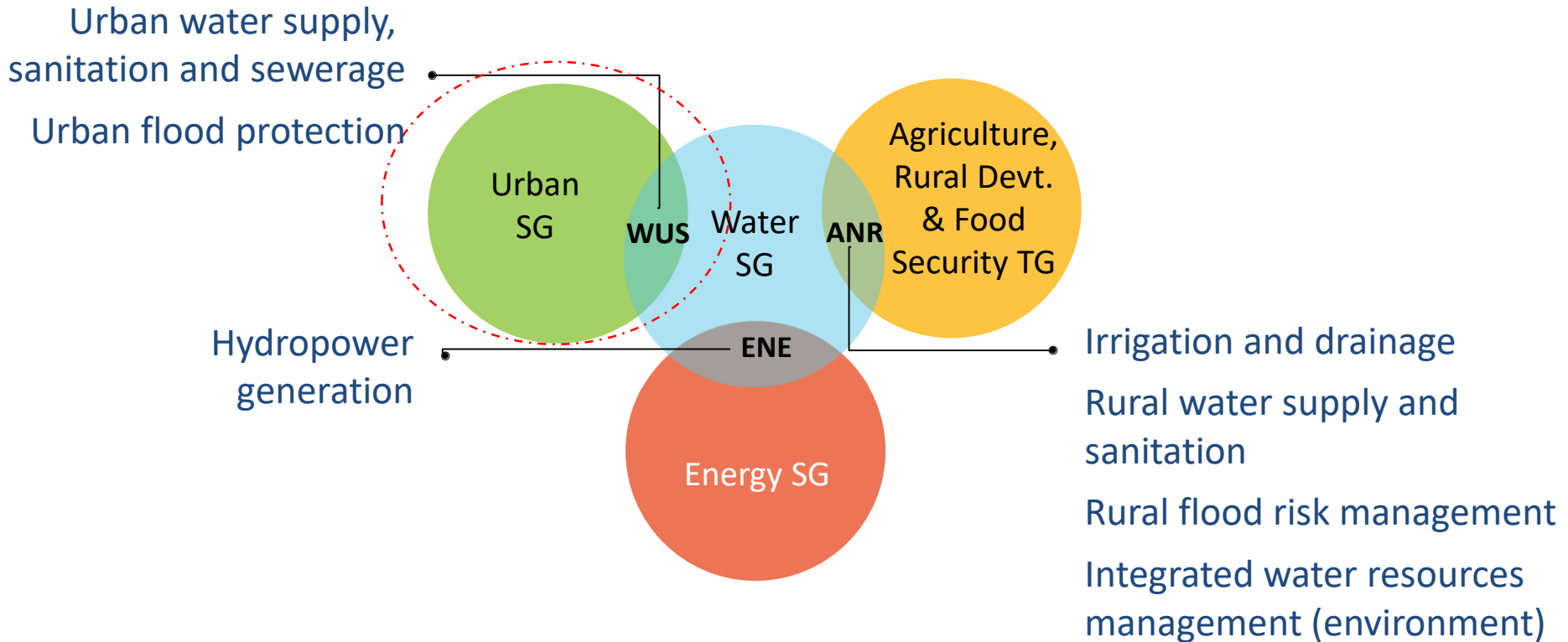
Chief of Water Sector Group

Sustainable Development & Climate Change Department, ADB

27 March 2019



Water is (i) cross-cutting and (ii) links the water-food-energy security nexus



Under the current project classification system, water operations is reported in:

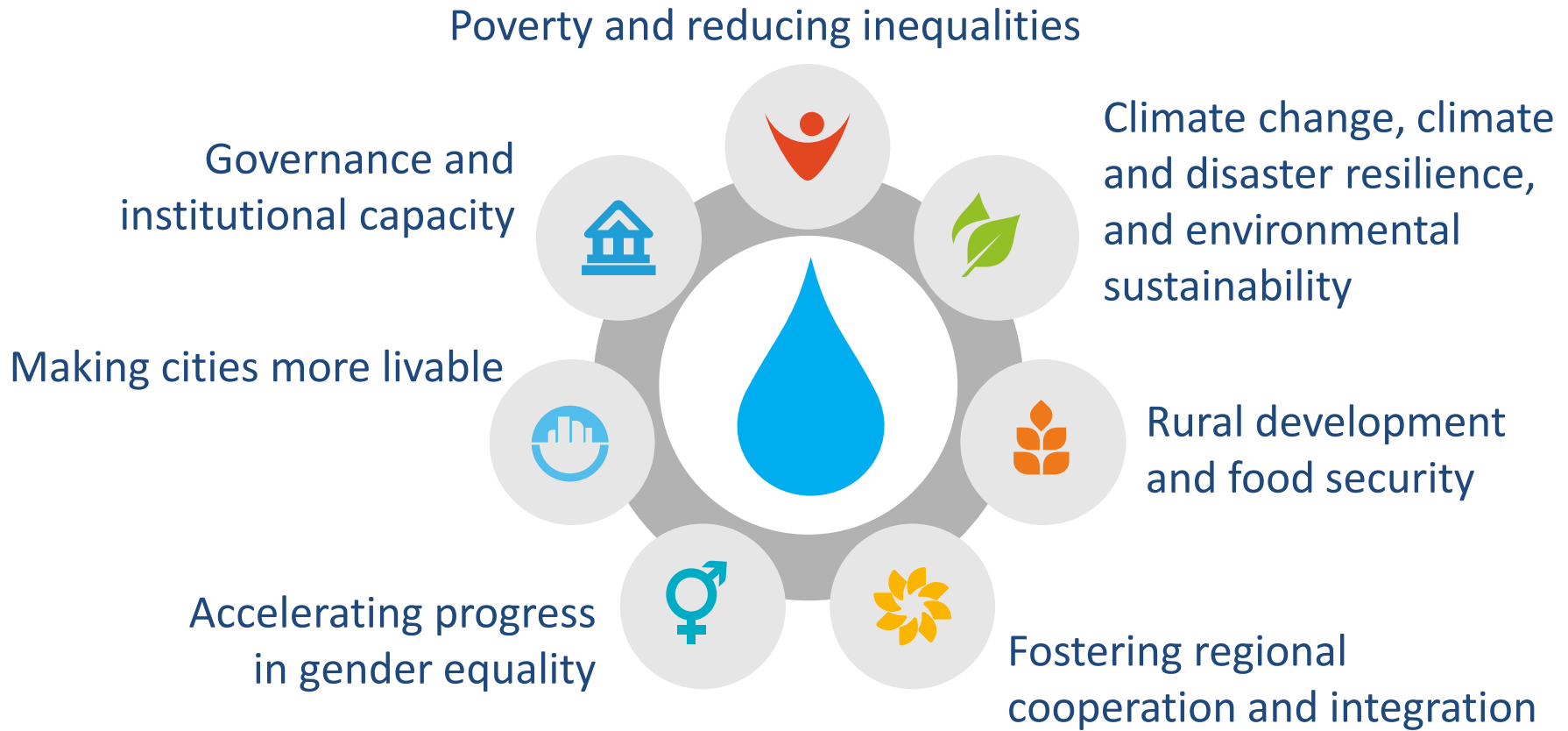
WUS - Water and other Urban Infrastructure and Services

ANR - Agriculture, Natural Resources, and Rural Development

ENE - Energy



Strategy 2030: Seven Operational Priorities



Holistic and Integrated Approach



Strategy 2030: Water and the Seven Operational Priorities

ADB

Operational Priorities	How water contributes	Related SDG
1. Addressing remaining poverty and reducing inequalities	Access to water supply/sanitation for the poor, agricultural, and employment	6.1; 6.2; 2.3
2. Accelerating progress in gender equality	Access to water supply/sanitation, improved security through safe sanitation, and labor reduction	5a; 6.1, 6.2
3. Tackling climate change, building climate and disaster resilience, and enhancing environmental sustainability	Flood, drought and other water-related disasters	1.5; 13.1
	Nature-based solutions, and payment for ecosystem services	6.6; 14.b; 15.2
	Water-food-energy security nexus, integrated water resources management, and water quality	6.3, 6.5 15.1



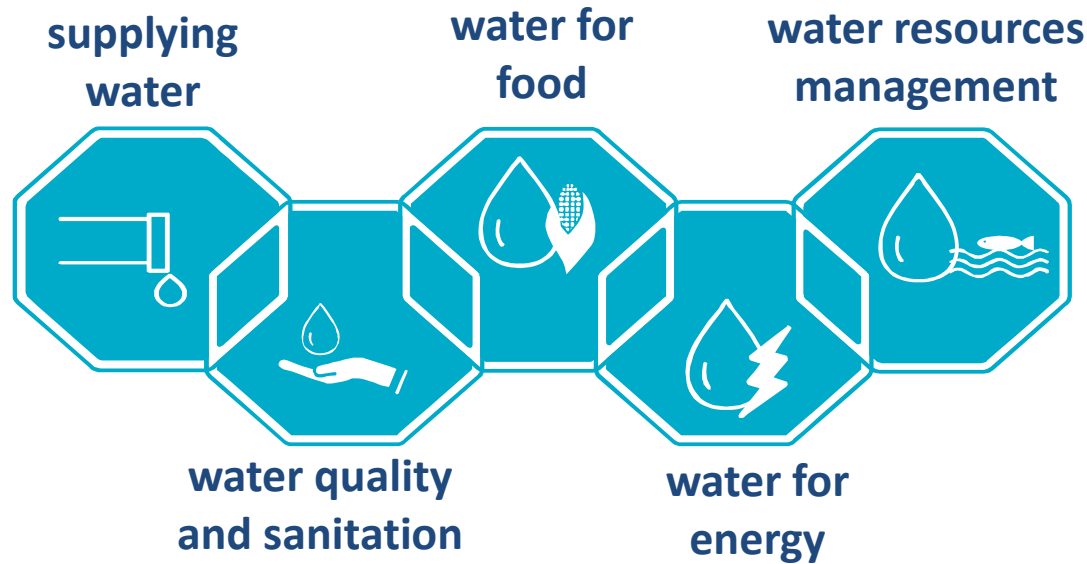
Strategy 2030: Water and the Seven Operational Priorities



Operational Priorities	How water contributes	Related SDG
4. Making cities more livable	Access to water supply/sanitation, flood risk management, and water quality	6.1; 6.2; 6.3; 11.b
5. Promoting rural development and food security	Access to water supply and sanitation, watershed management, and irrigation /agricultural water productivity	2.3; 2.4; 6.1, 6.2, 6.4; 15.1
6. Strengthening governance and institutional capacity	Strengthening public and private water institutions for improved water management and service delivery	6b
7. Fostering regional cooperation and integration	Increasing water security, strengthening cooperation on watershed management and transboundary water benefits	6.5.3; 6a



One ADB Water Approach



...six cross-cutting themes

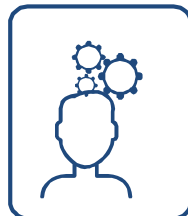
finance and transactions



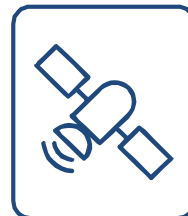
governance & sustainability



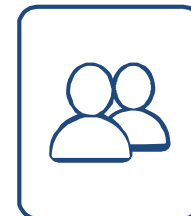
resilience & disaster



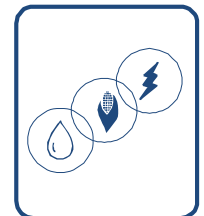
high-level technology & innovation



inclusiveness



water-food-energy security nexus & productivity



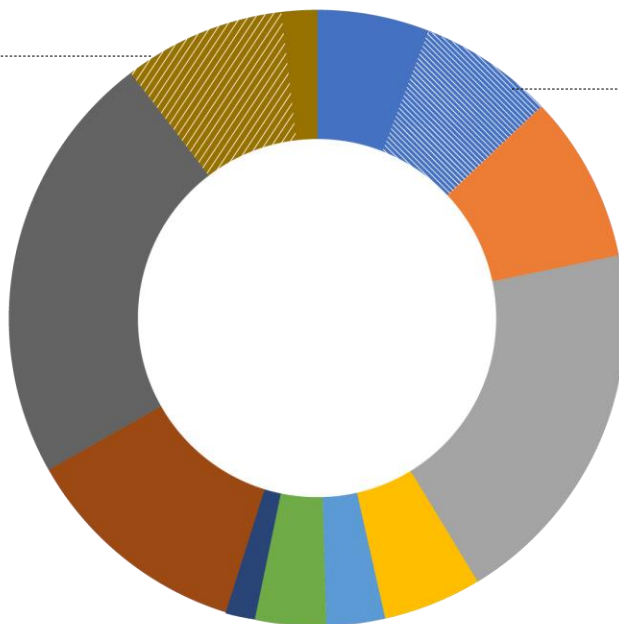


Water in 2018 Investments: Total ADB



57.5% is water
(\$1.692 billion)

81% is water
(\$1.470.02)



Total ADB - \$18.37 billion

Total Water – \$3,362.6 billion (18.3% of total)

■ Agriculture, natural resources & rural development (12.9%)

■ Education (8.8%)

■ Energy (19.6%)

■ Finance (5.2%)

■ Health (3.1%)

■ Industry and trade 3.7%)

■ Information & communication technology (0.3%)

■ Public sector management (13.3%)

■ Transport (22.8%)

■ Water & other urban infrastructure & services (10.4%)



2018 Water Investments

By Subsector



By Region



Total - \$3,362.60 million

- Flood management (12%)
- Irrigation and drainage (23%)
- Water resources management (8%)
- Water supply, sanitation, & wastewater management (56%)

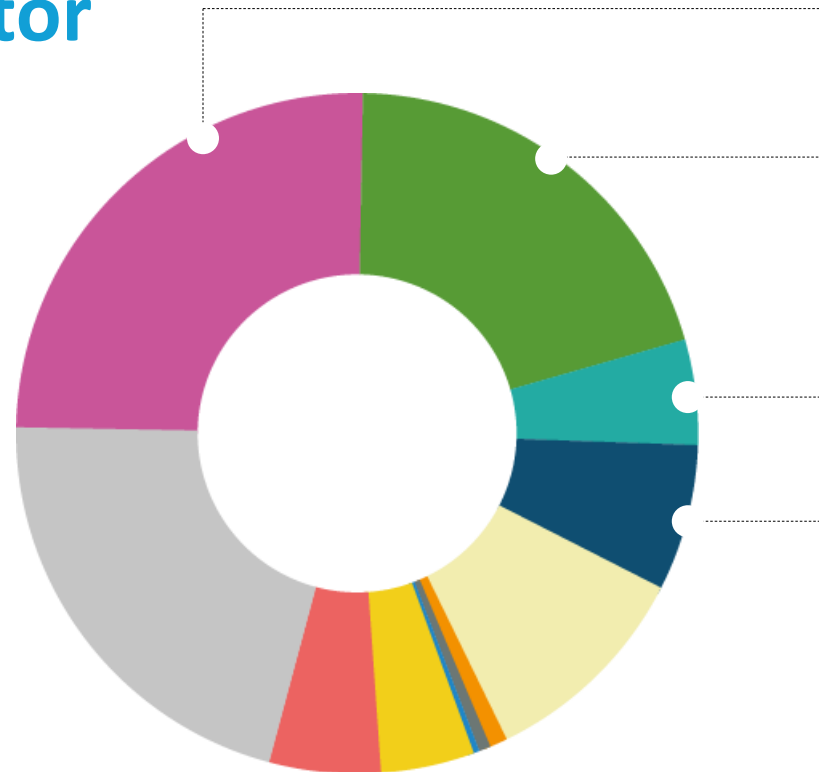
- Central and West Asia (15%)
- East Asia (15%)
- South Asia (51%)
- Southeast Asia (20%)



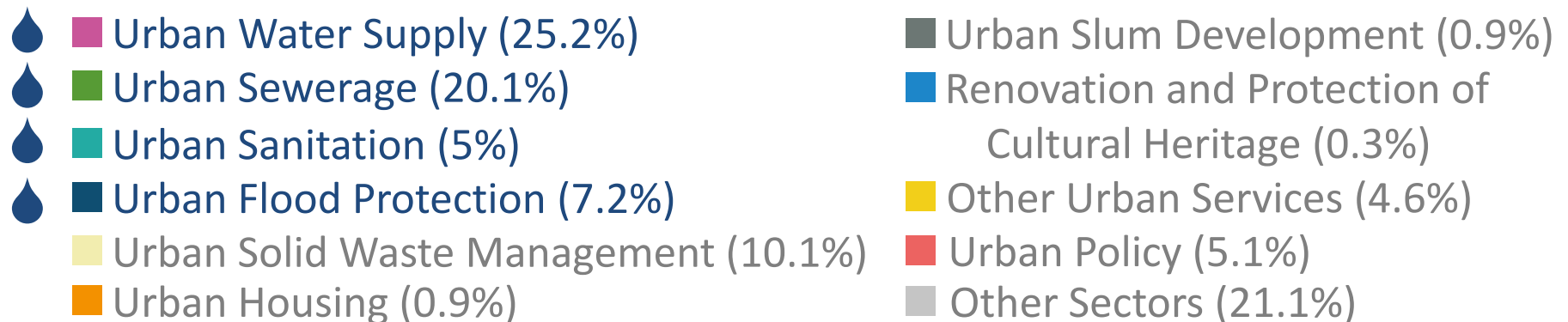
Water in 2018 Investments: Urban Portfolio

by Subsector

ADB



57.5% is water
Includes sovereign
and private sector





Water in 2018 Investments: Urban Portfolio by Region

ADB



Total - \$2,714.3 million

- Central & West Asia Department, \$222.70 M (8%)
- South Asia Department, \$962.07M (35%)
- Private Sector Operations Department, \$100.00 M (4%)
- Southeast Asia Department, \$624.50 M (23%)
- East Asia Department, \$805.00 M (30%)

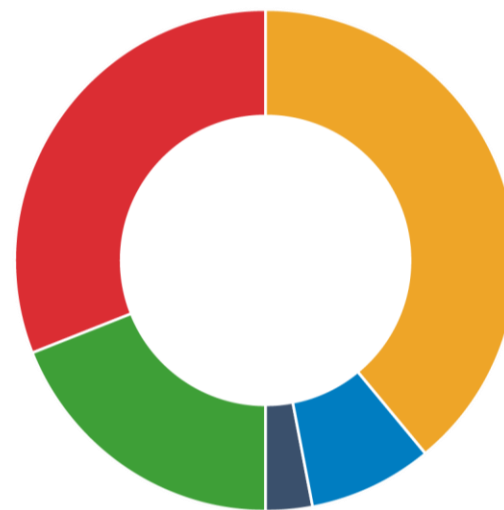


Opportunities in Projects: 2019 Pipeline

By Subsector



By Region



Total - \$4,216.51 million

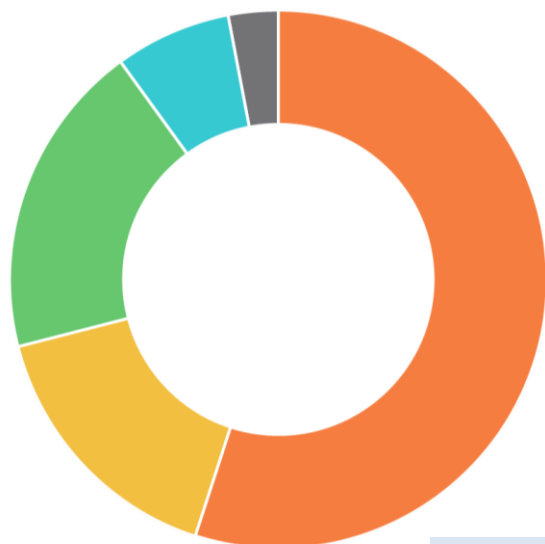
- Flood management (15%)
- Hydropower (20%)
- Irrigation and drainage (23%)
- Water resources management (9%)
- Water supply, sanitation, & wastewater management (34%)

- Central and West Asia (39%)
- East Asia (8%)
- Pacific (3%)
- South Asia (19%)
- Southeast Asia (31%)

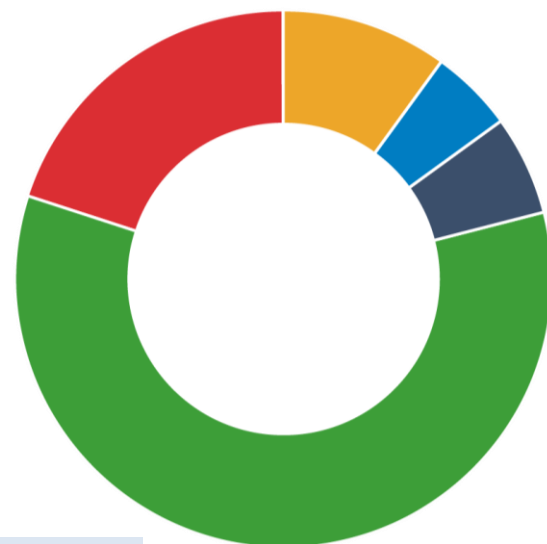


Opportunities in Projects 2020 Pipeline

By Subsector



By Region



Total - \$4,530.50 million

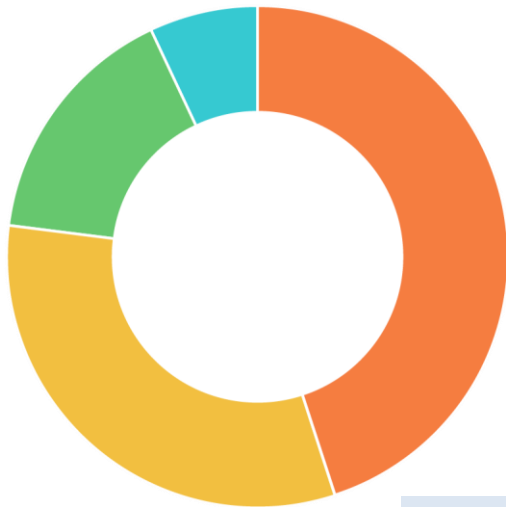
- Flood management (19%)
- Hydropower (3%)
- Irrigation and drainage (16%)
- Water resources management (7%)
- Water supply, sanitation, & wastewater management (55%)

- Central and West Asia (10%)
- East Asia (6%)
- Pacific (6%)
- South Asia (59%)
- Southeast Asia (20%)

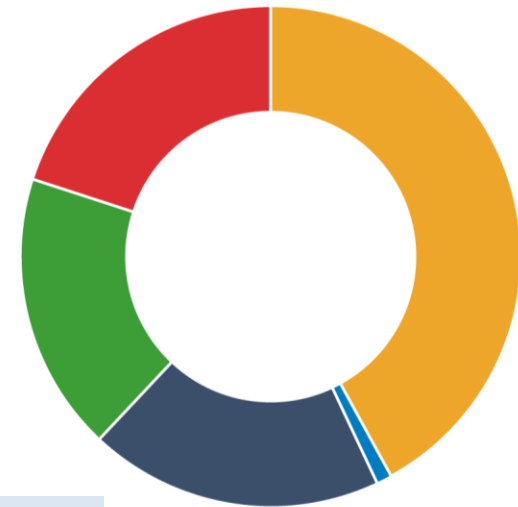


Opportunities in TAs: 2019 Pipeline

By Subsector



By Region



Total - \$12.78 million

- Flood management (16%)
- Irrigation and drainage (32%)
- Water resources management (7%)
- Water supply, sanitation, & wastewater management (45%)

- Central and West Asia (41%)
- East Asia (1%)
- Pacific (18%)
- South Asia (18%)
- Southeast Asia (20%)



Trends and Opportunities

Information technology, cloud computing, and internet of things

Tools: Satellites, Drones, LiDAR, SCADA, BlockChain, mobile phones

Applications: Monitoring, Mapping, Planning, Productivity, Regulation, Decision Support (Prioritizing, Optimising, recasting)

Processes

Water treatment for supply (desalination); wastewater treatment for water reuse and energy and nutrient recovery (circular economy), fecal sludge management

More efficient water use

new irrigation techniques for more crop per drop and climate change, non-revenue water reduction, intelligent control, managed groundwater recharge

Working with nature/ecology-based management

coastal defence (mangroves, sediment trapping), flood detention (room for the river), water storage (upper watershed management and urban/peri urban – sponge cities) water quality improvement (helophyte filters), low impact design (LID)/sustainable urban development (SUDS)