

# BUSINESS OPPORTUNITIES FAIR



ADB Headquarters, Manila, Philippines

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## A. Building livable cities – priorities and challenges

- Urban Operational Plan (2012-20)
  - Adopting principles of economy, equity and environment
- Challenges
  - Climate change related disasters
  - Multiple institutions in the urban space
  - Weak project administration capacity of governments
- *Monitoring using the Sustainable Development Goals (Goal 11)*



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<https://www.flickr.com/photos/powerfocus/3800577398/sizes/l>

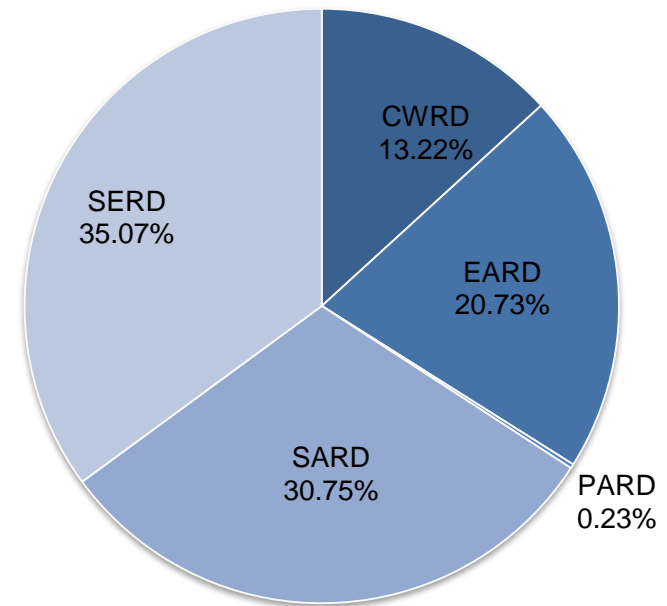
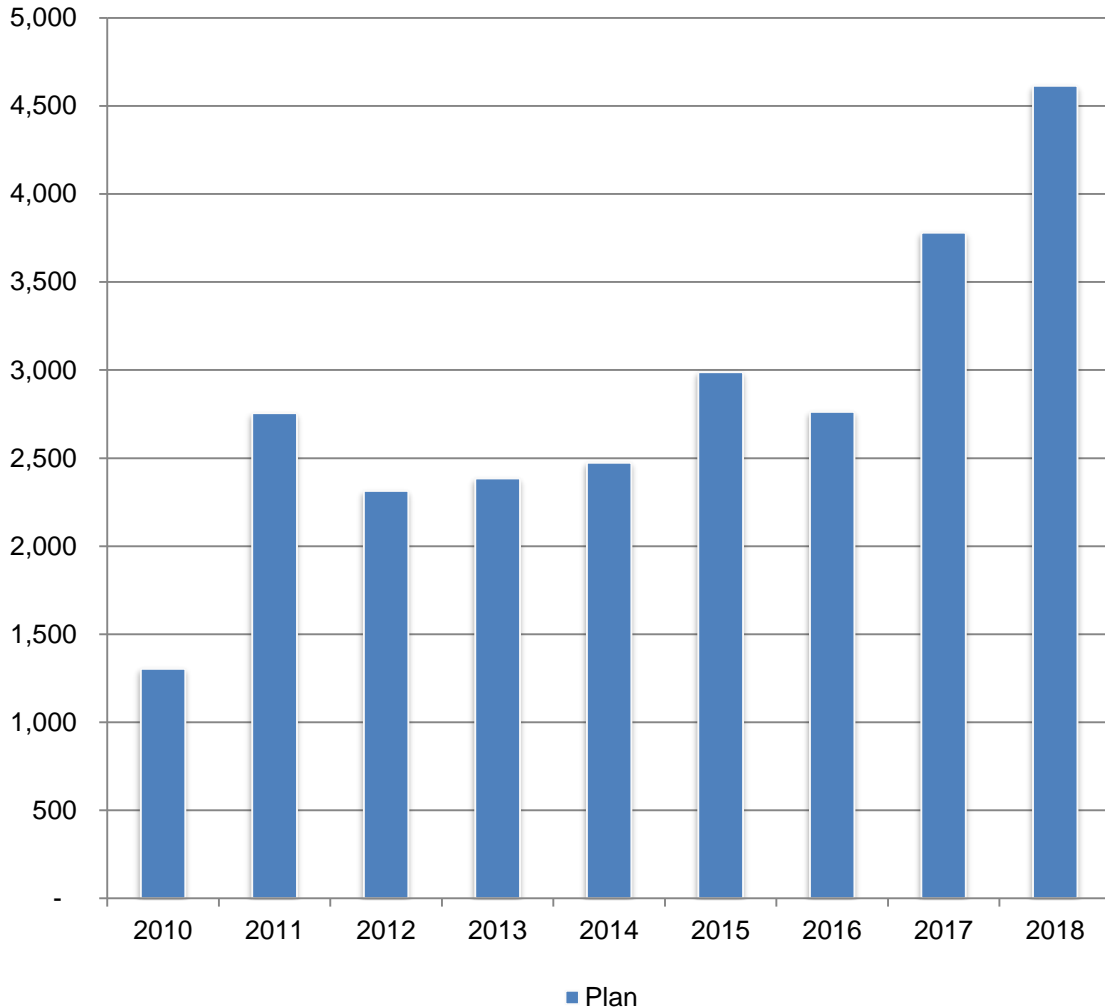
## A. Providing water for all – priorities and challenges

- Water Operational Plan (2011-20)
  - More crop per drop, water use efficiency and expanded sanitation
- Challenges
  - Over-abstraction of groundwater
  - Water-related disasters and climate change impacts
  - Weak project administration capacity of governments
- *Monitoring using the Sustainable Development Goals (Goal 6)*



## B. Operations Achievement

Water Sector Group Portfolio (\$million)



### 2015 Achievement

- \$2.30 billion = Total Lending
- \$0.73 billion = Basin and Rural Water
- \$1.57 billion = Urban Water
- \$0.25 billion = PSOD



## C. 2015 Spotlight Projects – Urban



VIE: Urban Environmental & Climate Change Adaptation Project

- \$100 million
- Investments to reduce coastal flooding through dune stabilization
- Capacity building on climate resilience
- Supported by the UCCRTF



GEO: Urban Services Improvement Investment Program

- Introducing operational efficiency through design-build-operate contracts
- Engaging a private company to improve institutional effectiveness of the Water Company
- Applying geospatial technologies to WSS utility operations



BAN: Dhaka Environmentally Sustainable Water Supply Project

- Ongoing support to Dhaka for non-revenue water reduction
- \$250 million design-build-operate contract for water intake, treatment and transmission – largest in the urban water space



PRC: Western Counties Water & Wastewater Management Project

- Private sector participation
- Multisector concessions to improve resource efficiencies
- Use of cost competitive technologies



## C. 2015 Spotlight Projects – Water



### CAM: Uplands Irrigation & Water Resources Mgmt. Sector Project

- \$60 million
- Enhance efficiency and climate resilience of irrigation systems
- Improve water resource management capacity
- Increase government and farmer communities' capacity to operate and manage irrigation systems

### PRC: Integrated Env. Protection and Mgmt. Project

- \$130 million
- Environmental protection linked with livelihood improvement for farmers
- Eco-compensation
- Integrated water resources management
- Dongjiang Lake Basin Water Environmental Protection Regulation revised

### PAK: Trimmu and Panjnad Barrages Improvement Project

- \$90 million contract
- Increased flood frequency and sedimentation due to climate change
- Design focused on sediment management, rivers confluence management, channelization and mitigating flood threats to nearby city

### BAN: Irrigation Management Improvement Project

- \$7 million private operator engaged through a performance-based management contract for 5 years
- Unique pilot for a large-scale irrigation system
- Management, operation and maintenance of secondary and tertiary water distribution systems



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## E. Scaling up and advance planning – Urban

- Prefeasibility and investment grants through the Urban Financing Partnership Facility
- Cities Development Initiative Asia support to ODs (13 transactions)
  - GEO, PAK, IND, BAN, CAM, VIE, PRC, MON
- Urban Climate Change Resilience Trust Fund support to ODs (6 transactions)
  - PAK, IND, BAN, MYA, VIE



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## E. Scaling up and advance planning – Water

- Use of the Water Financing Partnership Facility
  - AFG: Supporting Natural Resources Operations
  - PRC: Shandong groundwater management project
- Water Accounting and Productivity through Remote Sensing
  - IND, INO, PAK, SRI, UZB, VIE
- Water Operators Partnership
  - 29 ongoing; potential scale up in Mandalay, Fiji, Dong Hoi, Colombo





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## E. Climate resilient infrastructure – Water

- Promote south-south cooperation in flood risk management
- Basin water projects with climate resiliency features:
  - IND: Climate Adaptation in Vennar Sub-basin in Cauvery Delta Project
  - MYA: Irrigation Command Area Development Project
- Urban water projects with climate resiliency features:
  - BAN: Dhaka Water Network Improvement Project
  - FIJ: Urban Water Supply and Wastewater Project



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## E. Climate resilient infrastructure – Urban

- Create a Climate Finance Tracking Team
- Urban development projects with climate resiliency features:
  - VIE: Secondary Cities Development Program
  - IND: Kolkata Environmental Improvement Investment Program (T2)
- Urban water projects with climate resiliency features:
  - BAN: Dhaka Water Network Improvement Project
  - FIJ: Urban Water Supply and Wastewater Project



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*AZE: Reverse Osmosis Plant in Nakhchivan*

## E. Use of high-level technology – Urban

- Big Data analysis on urban development
  - Establishing a partnership with the European Space Agency
  - Pilot work in Mandalay and Armenia
- Use of desalination (reverse osmosis) technology
  - Jaffna and Pacific Islands



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## E. Use of high level technology – Water

- Use of technology:
  - Laser land levelling for irrigation
  - Desalination (reverse osmosis) for urban water supply
- Pilot and Demonstration Activities (12 transactions), e.g.
  - Aquarating in FIJ
  - Fecal Sludge Management in NEP
  - Non-revenue water reduction in PRC



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Thank You

Urban and Water Sector Groups  
Asian Development Bank