



BUSINESS OPPORTUNITIES FAIR



Asian Development Bank Headquarters, Manila, Philippines

8th ADB Business Opportunities Fair

Water and Urban Sector – SDCC

Susumu Fujioka & Joris van Etten

22 March 2017

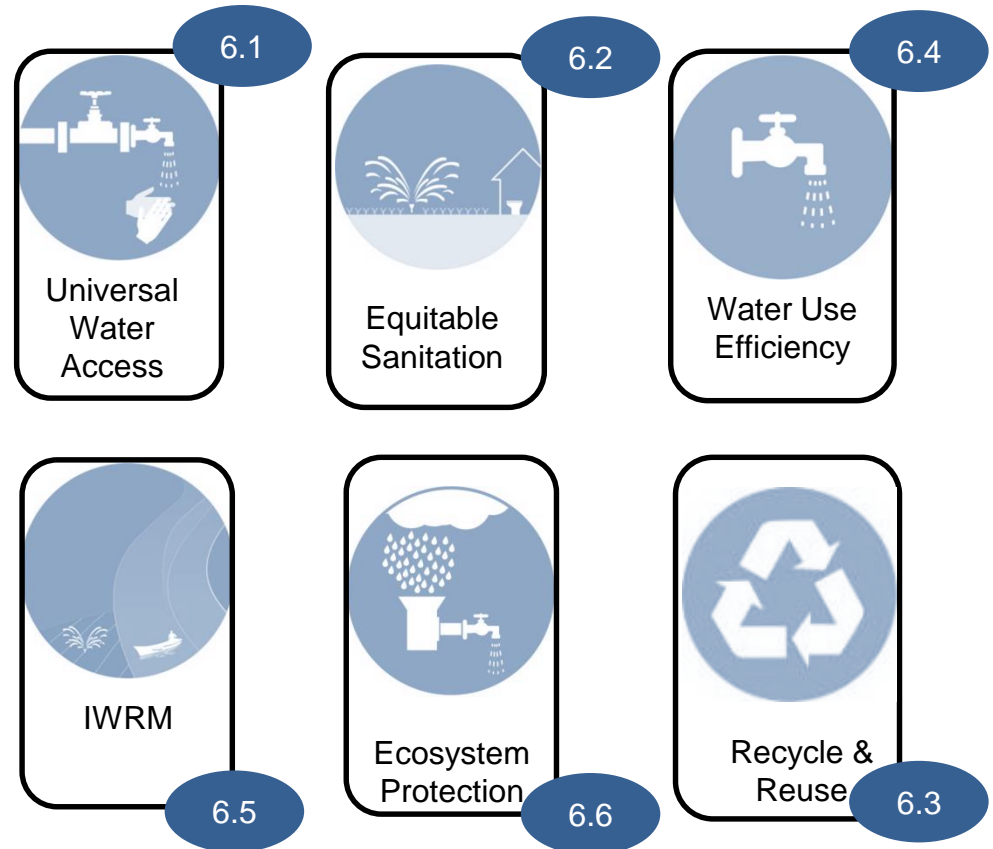
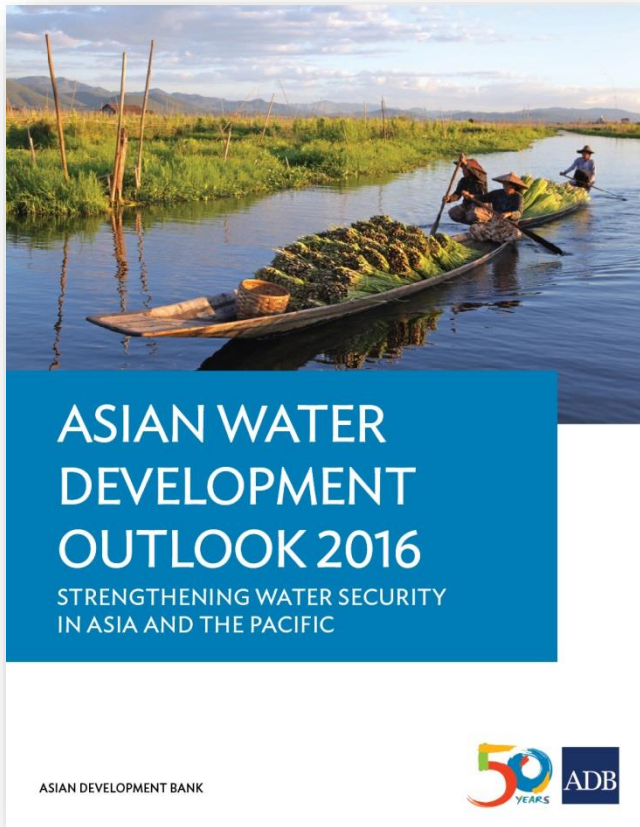
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Water Sector Outline

- Context
 - Asia's Water Challenges
 - ADB's "Water for All" Policy
- Overview of the Water Sector Investments
- General Business Opportunities

Asia's Water Challenge



ADB's "Water for All" Policy



- National water sector reform
- Integrated management of water resources
- Delivery of water services
- Conservation of water and increasing system efficiencies
- Regional cooperation
- Knowledge sharing
- Governance and capacity building

What do we want to achieve by 2020?

- 500 million people provided access to safe drinking water supply and improved sanitation
- 95 million people provided more efficient and productive irrigation and drainage services
- 170 million people with reduced risk of flooding
- integrated water resources management (IWRM) introduced in at least 30 river basins

ADB's targets in Water Investment

- ADB's annual water lending increased from \$2.0–\$2.5 billion to \$3.0–\$3.5 billion
- Share of sanitation and wastewater increased to 25% of total water lending
- Urban water utilities on-track towards corporate governance principles and practices
- PSP/PPP projects provide finance of not less than \$500 million per year



Investment Areas for ADB's Water operations

Rural Water - improving services for health and livelihoods in rural communities such as water supply and sanitation, and irrigation and drainage

Urban Water - sustaining economic growth in cities through investments in water supply, sanitation and wastewater management, and environmental improvement

Basin Water - promoting IWRM and healthy rivers through investments in infrastructure and management of multifunctional water regulation and hydropower facilities, flood management, watershed and wetlands conservation

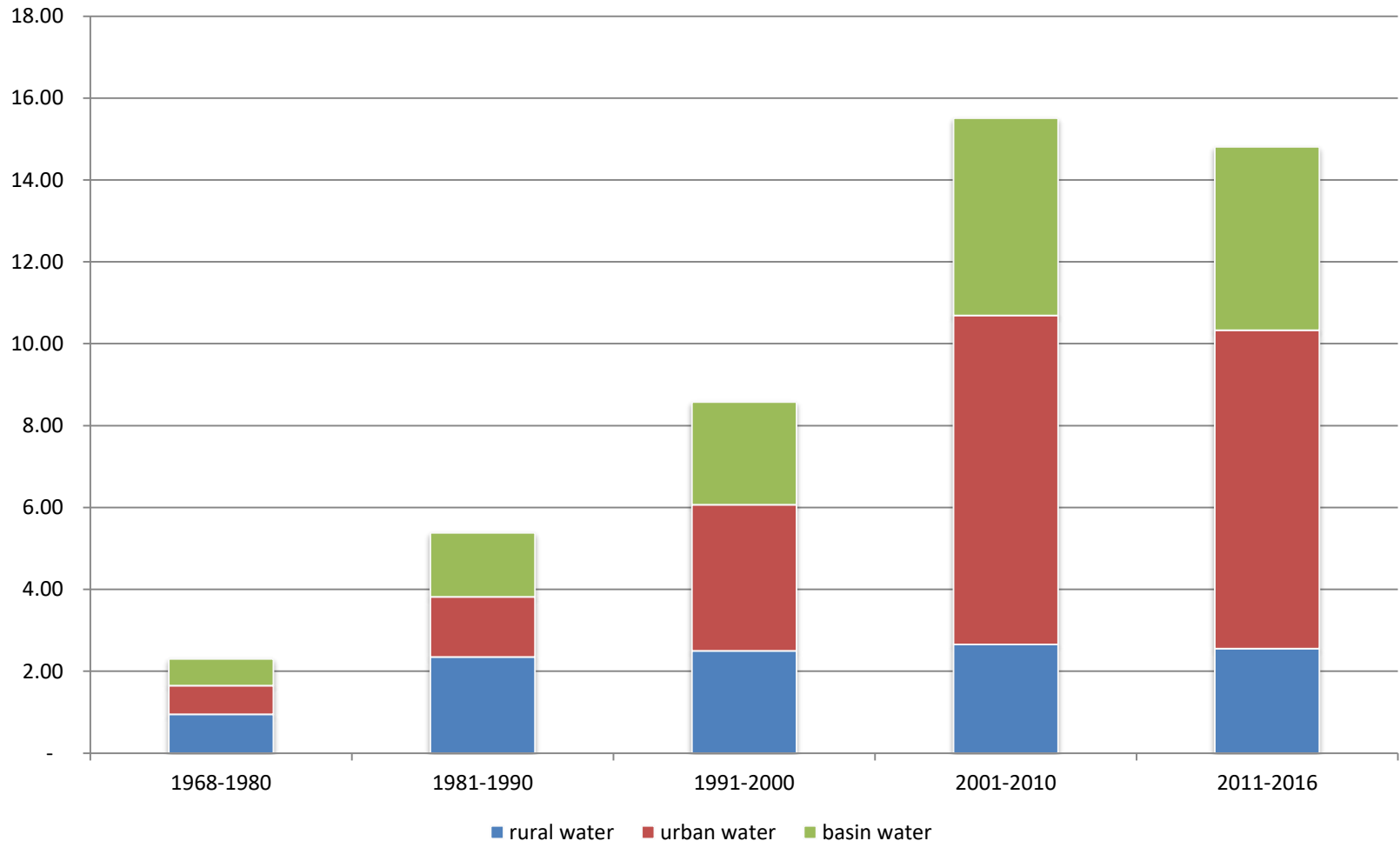
ADB's Water Investments

- Total investment portfolio (1968-2016): **\$46 billion**
- Rural Water: **\$11 billion**
- Urban Water: **\$21 billion**
- Basin Water: **\$14 billion**

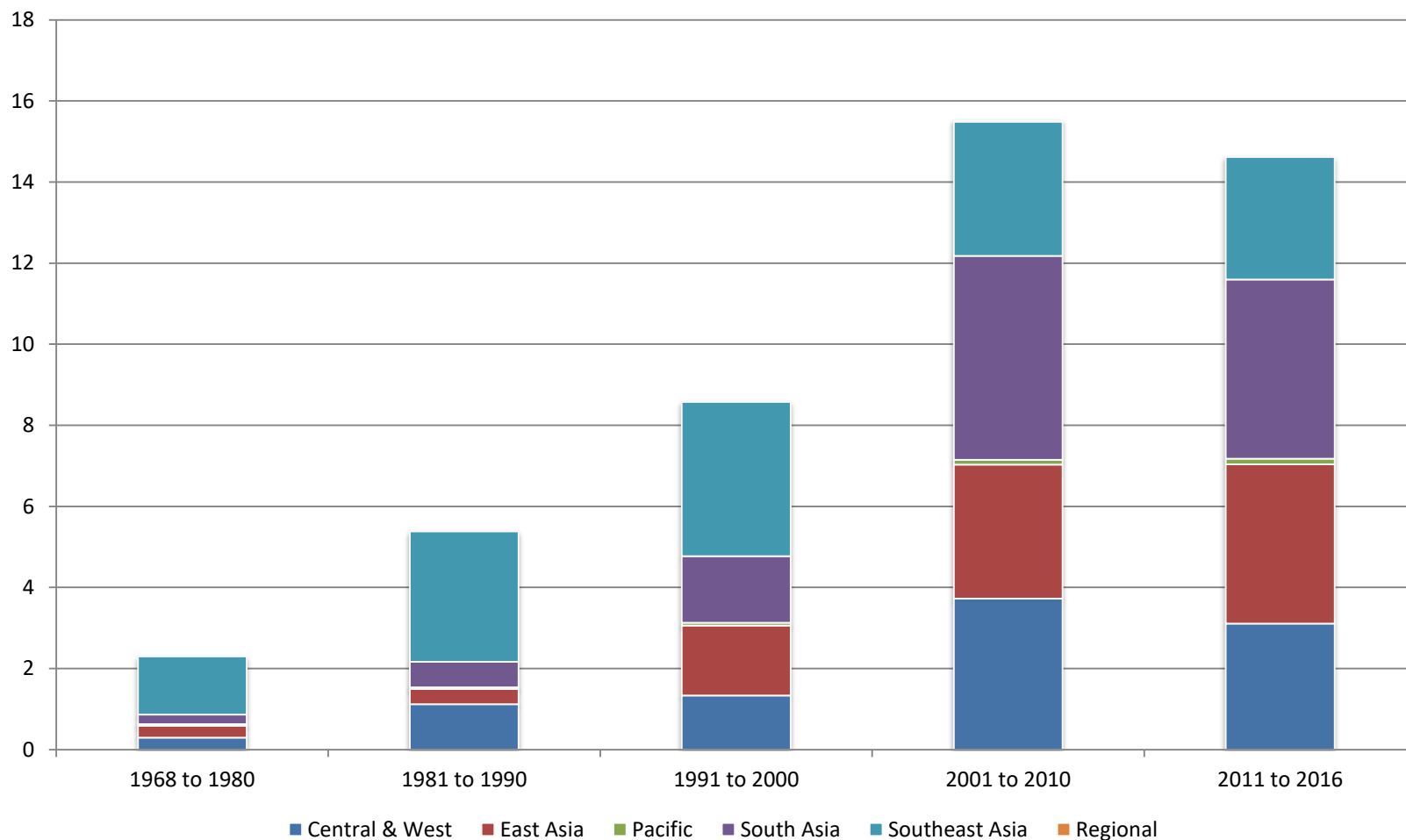
2017-2018 Pipeline

\$ 4.7 Billion

Water Investments - per subsector



Water Sector investments – Per Region



ADB's Knowledge Work

Key Knowledge Products

- Asia Water Development Outlook 2016
- Asia Water Futures and Solutions (2017)
- Water Accounting and Productivity pilot projects
- Water-Energy Studies

Key Knowledge Events

- Eye on Asia Event at the Stockholm World Water Week
- ADB Water Forum (2017)

Opportunities for Consulting Services

(estimated amount for 2017 – water sector)

- Project Preparation Technical Assistance (PPTA): **\$65 million**
- Other Technical Assistance: **\$7 million**

Business Opportunities

A menu of solutions will form the basis for operational interventions over the next 5 years:

- Water use efficiencies across the range of users
- Expanded wastewater management and wastewater reuse
- Embedded integrated water resources management
- Expanded knowledge development
- Technology and innovation
- Enhanced partnerships with the private sector

Urban Sector Outline

- Priority Areas for ADB's Urban Work
- Project Cycle Entry Points
- Servicing clients to improve efficiency
- 2017 Planned Initiatives

Priority Areas for ADB's Urban Work



Cross- Sectoral and Thematic Collaboration

Social development, informal settlements, health and housing



Urban Mobility

Mass rapid systems, walkability, air quality control and climate change mitigation



Urban Information Systems

Urban land use planning, data analytics, mobile technology and earth observation



Water Supply and Sanitation

Non-revenue water reduction, fecal sludge management and solid waste management



Ecosystem-based adaptation & Green Technology

Climate change adaptation, disaster risk management, flood management, drainage and bioengineering



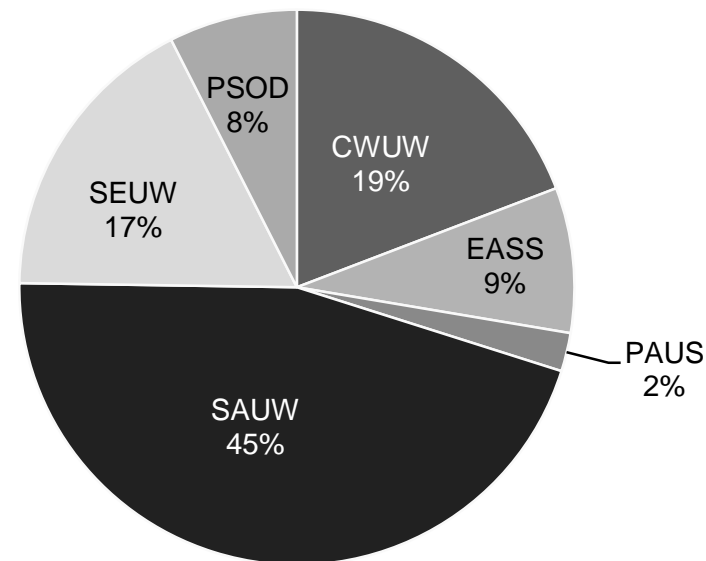
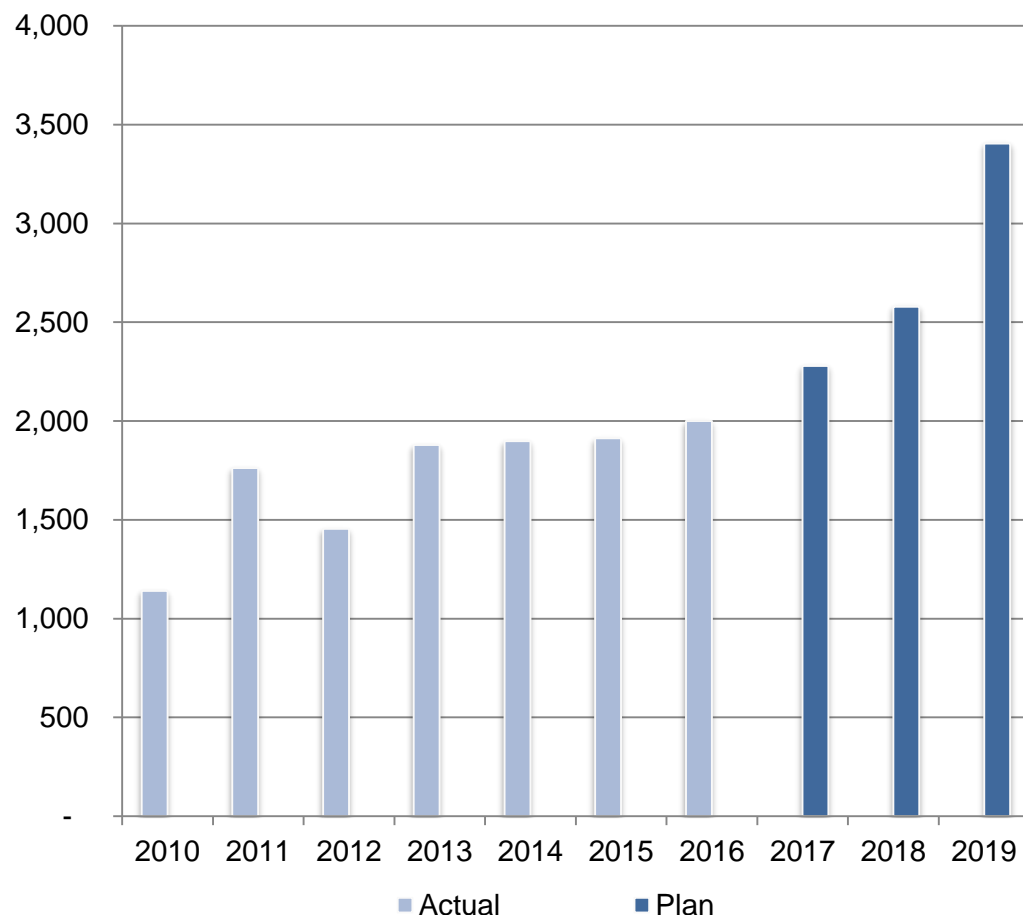
Smart Cities

ICT, E-governance, greenfield development, digital and municipal finance



2016 Operations Achievement

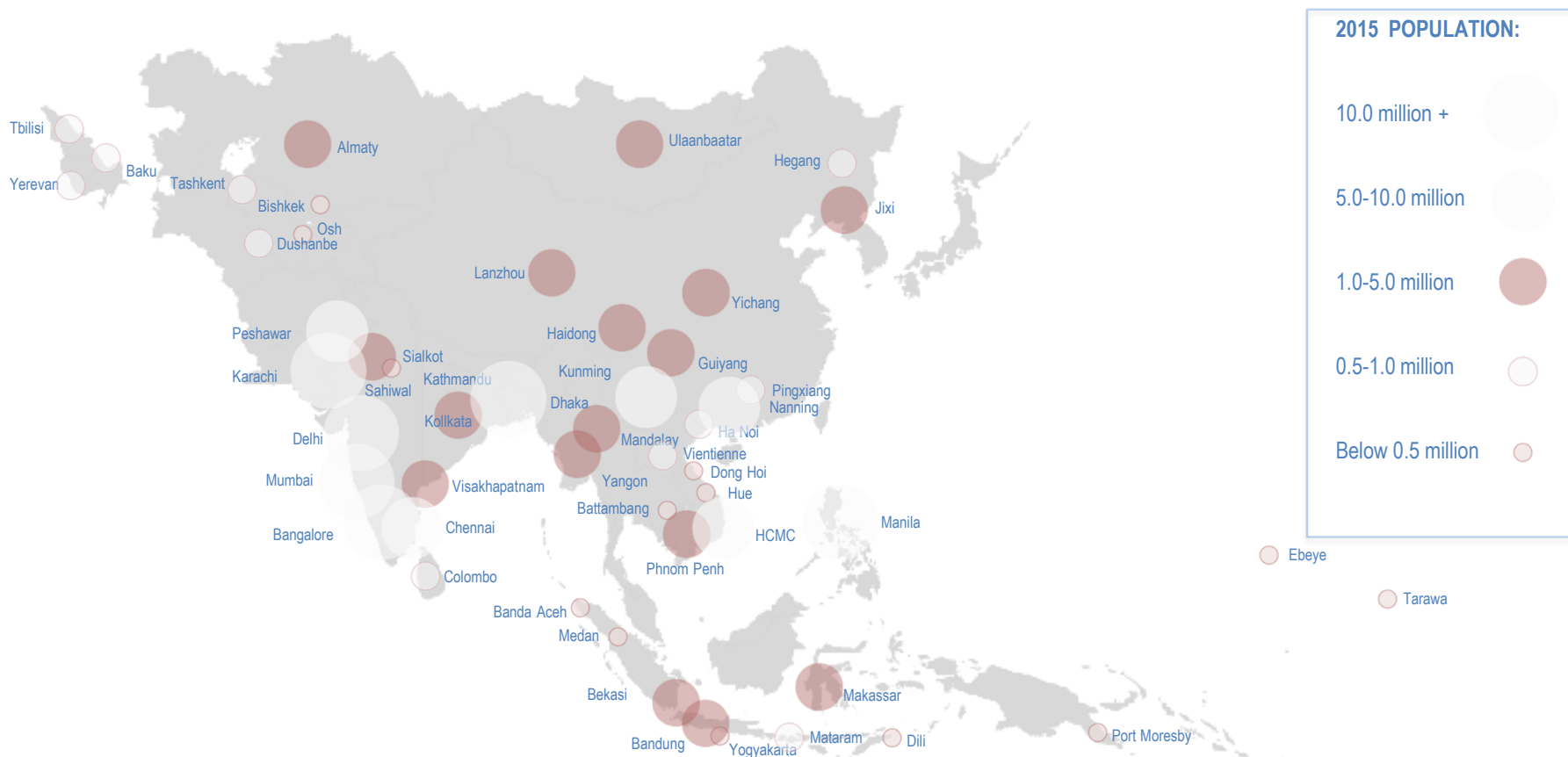
Urban Dev. and Water Portfolio (\$million)



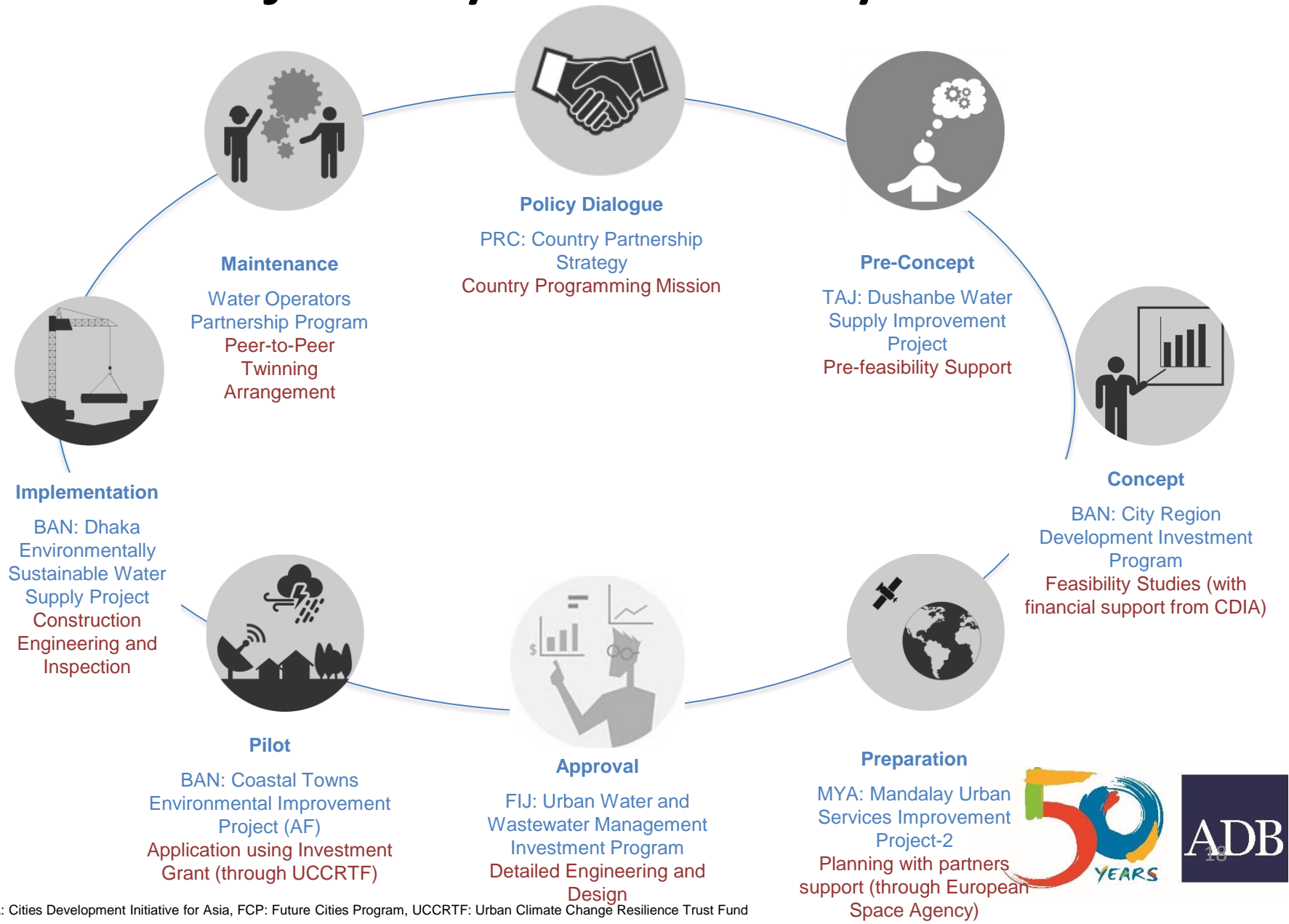
2016 Achievement

- \$2.00 billion = Total Lending (18 loans)
- \$0.15 billion = PSOD
- \$0.28 billion = Climate Financing
- 1 High-level Technology bid out (Jaffna Desalination Plant)

ADB's Urban Footprint



Project Cycle -- Entry Points



Servicing clients to improve efficiencies



- Use of geographical information systems for asset management and strengthening
- GEO: Urban Services Improvement Investment Program
- Collaboration with UNESCO-IHE on remote sensing for water accounting and productivity
- Collaboration with the European Space Agency on use of remote sensing in urban, water resources and food security
- Collaboration with University of Tokyo and JAXA on climate change and disaster risk assessment

Introducing innovation in processes



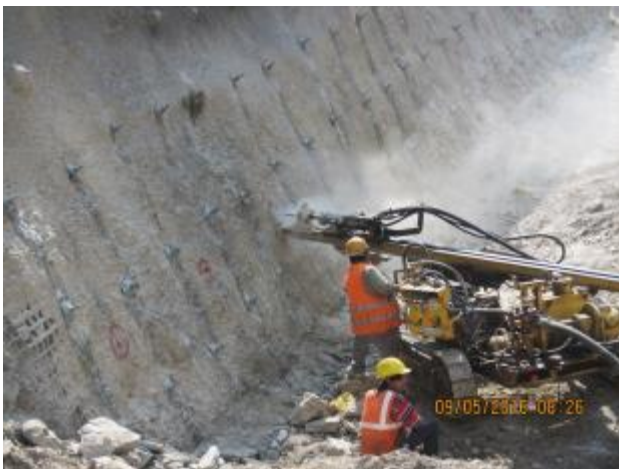
- Waste to energy recovery – sludge in wastewater systems
- FIJ: Urban Water Supply and Wastewater Management Project
- IND: Rajasthan Urban Infrastructure Development Project
- MYA: Mandalay Urban Services Improvement Project



Using improved construction techniques



- Heavy engineering works for water transmission
- NEP: Melamchi Water Supply Project
- IND: Kolkata Environmental Improvement Investment Program
- VIE: Water Supply Investment Program
- PHI: Angat Water Transmission Improvement Project



Reducing environmental and/or social costs



- Use of Reverse Osmosis / semipermeable membranes for potable water supply
- AZE: Water Supply and Sanitation Investment Program
- SRI: Jaffna-Killinochchi Water Supply Project
- Pacific Islands, various small plants

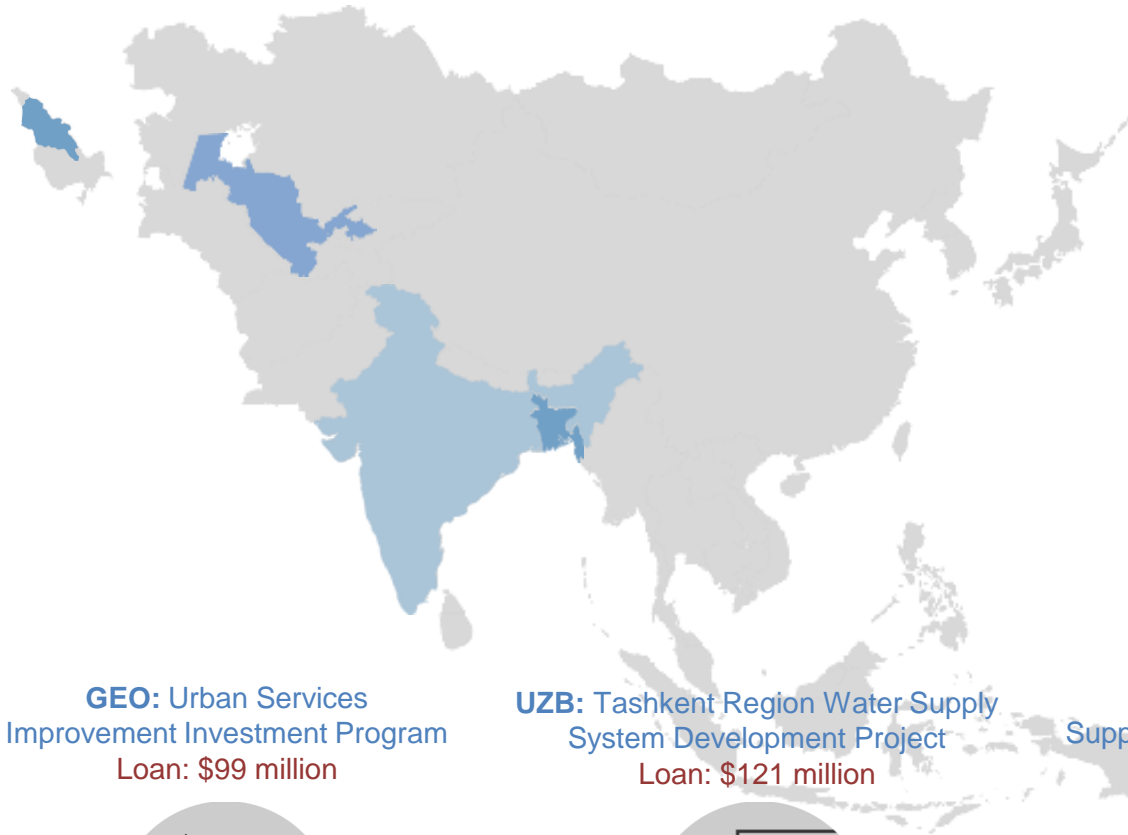


Contact persons:

Water: Susumu Fujioka, Water Resource Specialist, sfujioka@adb.org

Urban: Joris van Etten, Senior Urban Development Specialist, Jvanetten@adb.org

2016 Spotlight Projects (Central Asia and South Asia)



IND: Visakhapatnam-Chennai Industrial Corridor Development Program
Loan: \$245 million (T1) & \$125 million (P)



Economic Corridor and
Cross-Sector Collaboration

GEO: Urban Services Improvement Investment Program
Loan: \$99 million



Earth Observation
and Utility Partnership

UZB: Tashkent Region Water Supply System Development Project
Loan: \$121 million



Utility Management
and Regulation

BAN: Dhaka Water Supply Network Improvement Project
Loan: \$275 million



Climate Change Adaptation
and Advance Technology

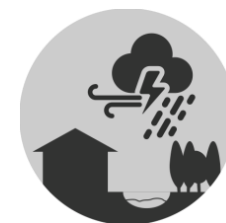


2016 Spotlight Projects

(East Asia, South East Asia and Pacific)



FIJ: Urban Water and Wastewater Management Investment Program
 Loan: \$42 million GCF: \$57 million



Climate Change Adaptation
 and Urban Services

PRC: Qinghai Haidong Rural Eco Development
 Loan: \$150 million



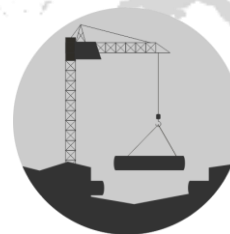
Ecosystem
 Protection

PRC: Integrated Wastewater Management Project
 Loan: \$150 million (PSOD)



Waste-to-
 Energy

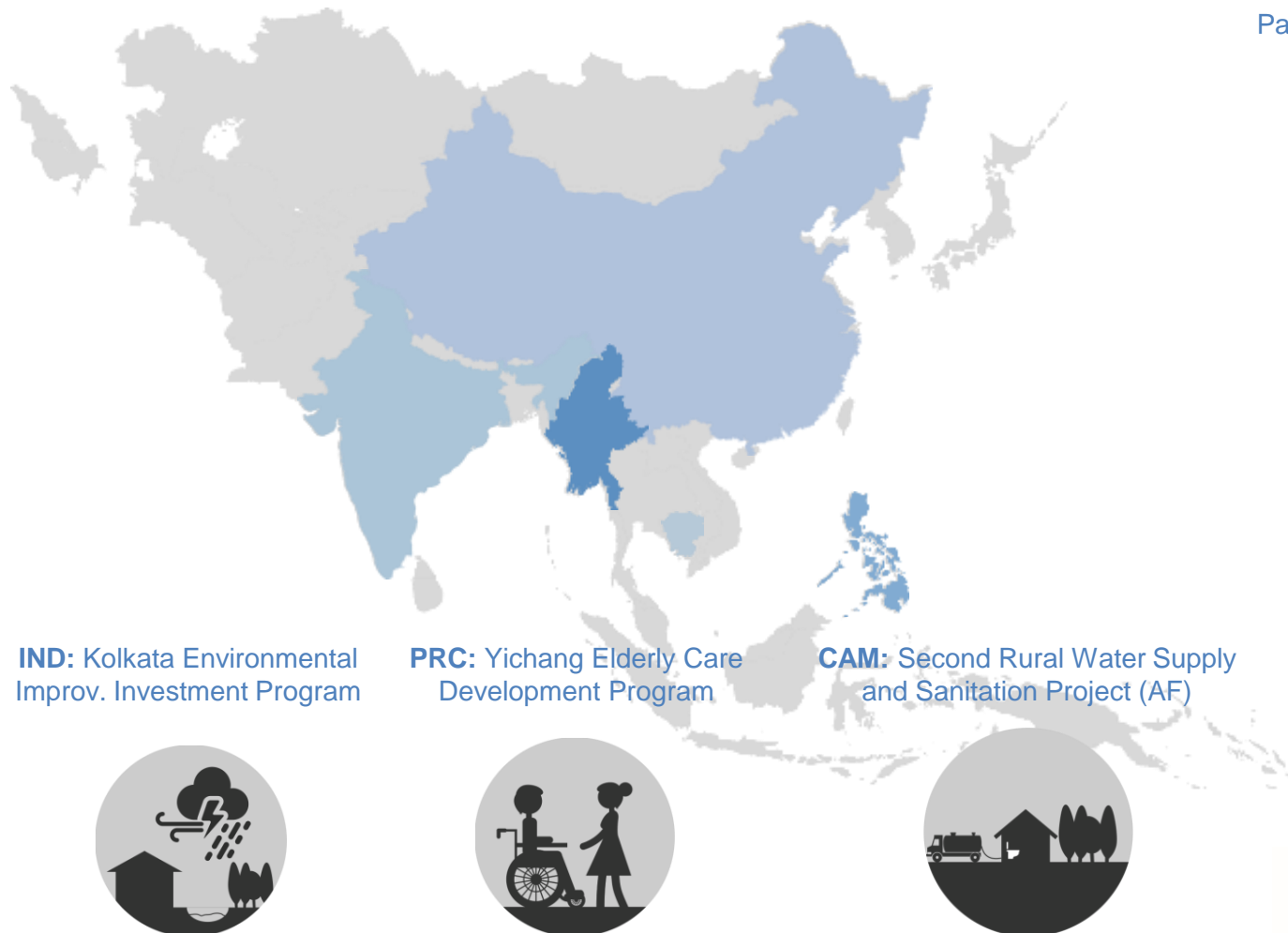
PHI: Angat Water Transmission Improvement Project
 Loan: \$123 million



Advance
 Technology



2016 Financing Partnership Facility Support



IND: Kolkata Environmental Improv. Investment Program



Climate Change Adaptation
Urban Climate Change Resilience Trust Fund

PRC: Yichang Elderly Care Development Program



Inclusive Development
Cities Development for Asia

CAM: Second Rural Water Supply and Sanitation Project (AF)



Equitable Sanitation
Sanitation Financing Partnership Fund

MYA: Water Operators Partnership Program in Mandalay



Utility Twinning
Water Operators Partnership Program

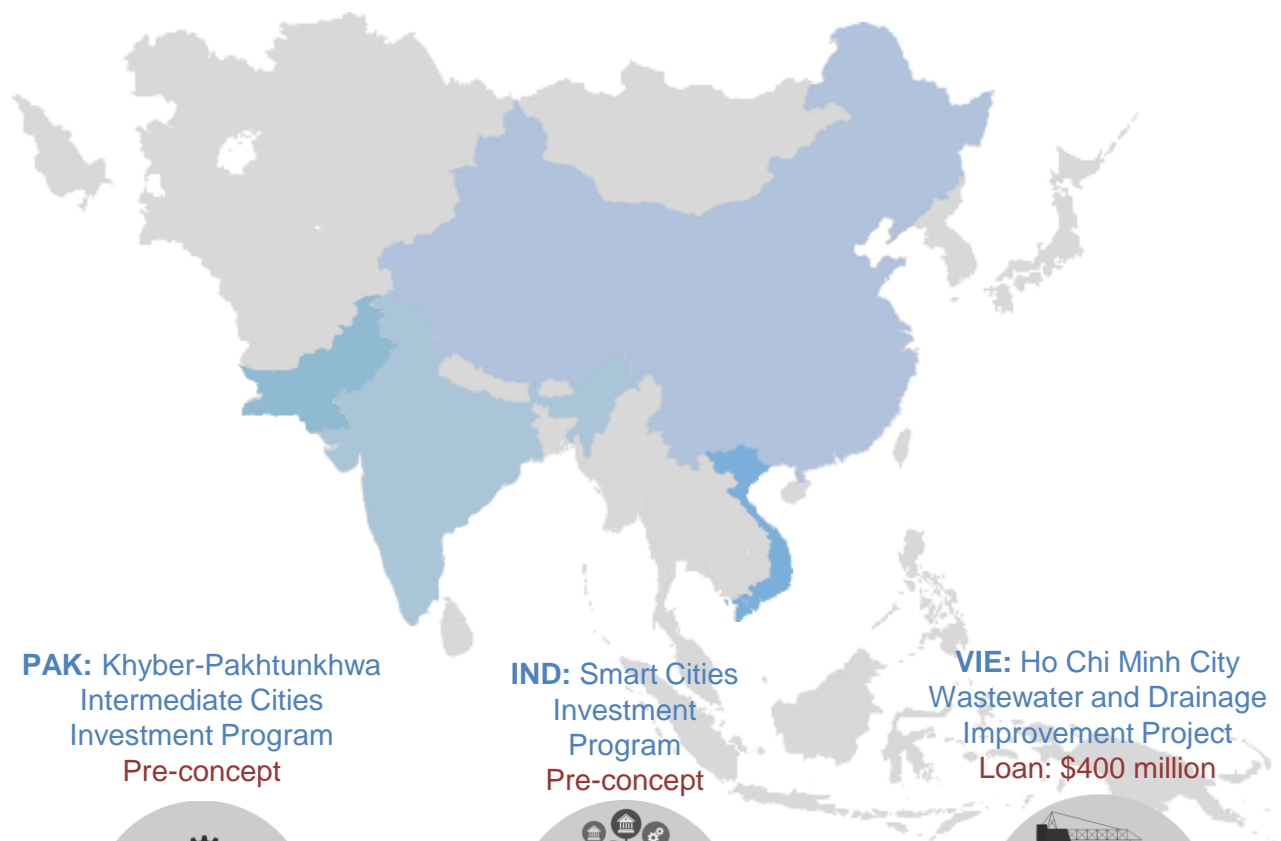
PHI: Water District Development Sector Project



Water Supply
Urban Environmental Infrastructure Fund



2017 Planned Urban Initiatives



PAK: Khyber-Pakhtunkhwa
Intermediate Cities
Investment Program
Pre-concept



Economic Corridor and
Cross-Sector Collaboration
UCCRTF and CDIA

IND: Smart Cities
Investment
Program
Pre-concept



E-governance, Urban Mobility
and Utility Management
UCCRTF and CDIA

VIE: Ho Chi Minh City
Wastewater and Drainage
Improvement Project
Loan: \$400 million



Climate Change Adaptation Planning,
Design and Advance Technology
UCCRTF

KIR: South Tarawa
Water and Wastewater
Management Project
Loan: \$15 million (+GCF)



Climate change adaptation, advance
technology and urban services
WFPF

PRC: Yangtze River
Economic Belt Industrial
Transformation Project
Pre-concept



Cross-sector collaboration between
natural resources, transport and cities
CDIA and WFPF



2017 Planned Cross- Sector / Thematic Work

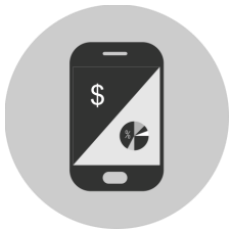


FIJ: Revitalization of Informal Settlements and Environment in Suva



Urban Health
Health Sector Group

SRI: Local Government Enhancement Sector Project (AF)
Loan: \$60 million



Digital Finance
Finance Sector Group

TAJ: Dushanbe Water Supply Improvement Project
Loan: \$20 million



E-governance
ICT Thematic Team

VIE: Secondary Cities Development Project (Green Cities)
Loan: \$170 million



Disaster Risk Insurance
CCDRM Thematic Group

