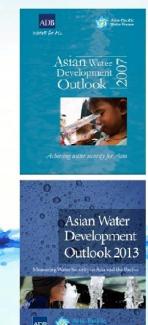
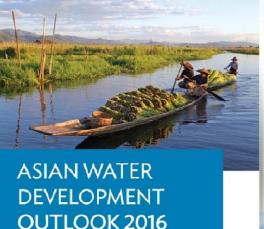




Asian Water Development Outlook (AWDO) Strengthening Water Security in Asia and the Pacific





STRENGTHENING WATER SECURITY IN ASIA AND THE PACIFIC



Yasmin Siddiqi and Mark Pascoe

A SIAN DEVELOPMENT BANK

Asian Development Bank and International WaterCentre

A Partnership

- ADB and Asia Pacific Water Forum
- IWMI Sri Lanka
- FAO Bangkok
- Tsinghua University Beijing
- ICHARM Japan
- OECD
- IIASA
- IWC Griffith University, CUNY, UQ



Water Challenges of Our Region

- Challenges
 - Poverty and competing demands for water
 - Sustaining economic growth
 - Climate change, increasing variability
- Water Secure Future
 - Water resources management
 - Bridging the rural-urban divide
 - Strengthening governance: knowledge and data





Quantifying Water Security

- Each KD is a combined measure of various 'states' of the water system
 - KD 1 = f (water supply (%), sanitation (%), DALY)
 - KD 2 = f (broad economy, water productivity in agriculture, industry, and energy)
 - KD 3 = f (urban water supply (%), sanitation (%), flood)
 - KD 4 = f (pressures/threats, flow alteration, governance)
 - KD 5 = f (exposure, vulnerability, capacity)
- Each KD is scored at a scale of 1 20
- National Water Security is sum of the 5 KDs scale 1 100
- National Water Security Index: 5 stages:
 - Stage 1: Hazardous (score < 36)

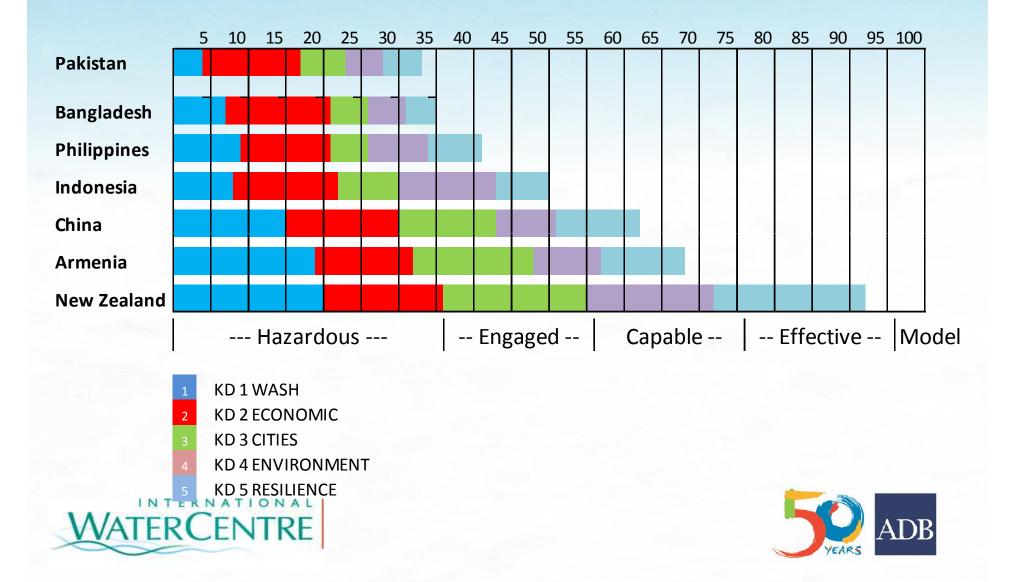
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Stage 5: Model (score >96)

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Total score by country (max. 100)





Key Dimension 5 **Resilience to Water-Related Disasters** Build resilient **communities** that can adapt to change



NATIONAL WATER SECURITY

10

Key Dimension 2 Economic Water Security Support productive economies in agriculture and industry

Key Dimension 4 Environmental Water Security Restore healthy rivers and ecosystems



Key Dimension 1

Household Water Security

/

needs in all communities

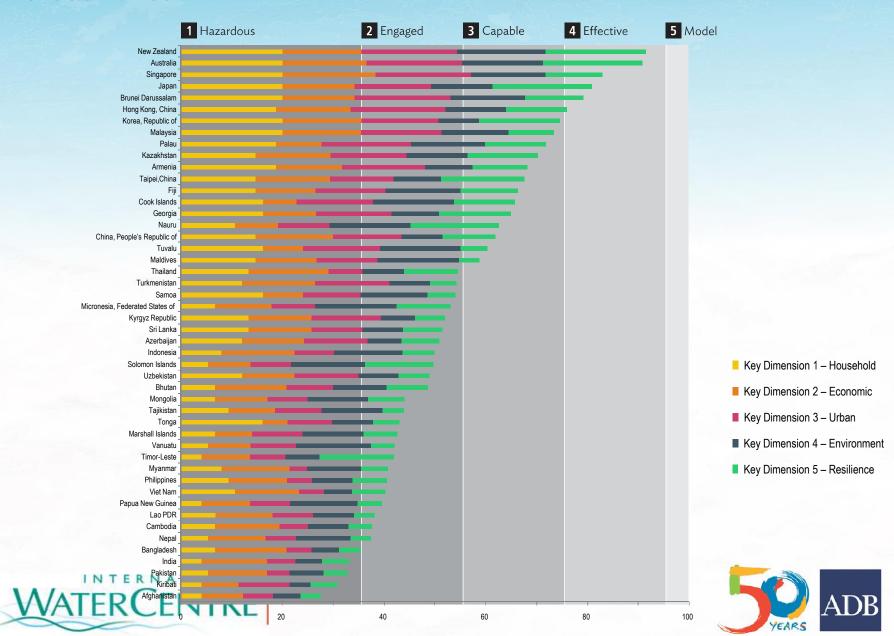
Satisfy household water and sanitation

Key Dimension 3 **Urban Water Security** Develop vibrant, livable **cities** and towns



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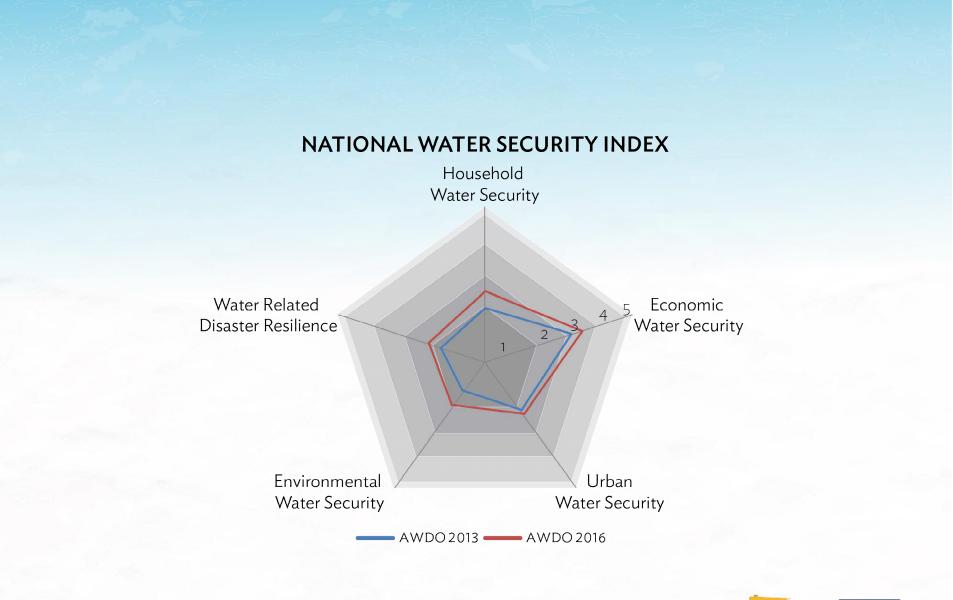
Countries



NATIONAL WATER SECURITY INDEX SCORE -100 5 4 80.5 - 80 3 61.9 - 60 47.3 2 43.0 38.2 - 40 33.7 -20 1 - 0 Pacific South Southeast Advanced Central East and West Asia Asia Economies (AE) Asia Asia

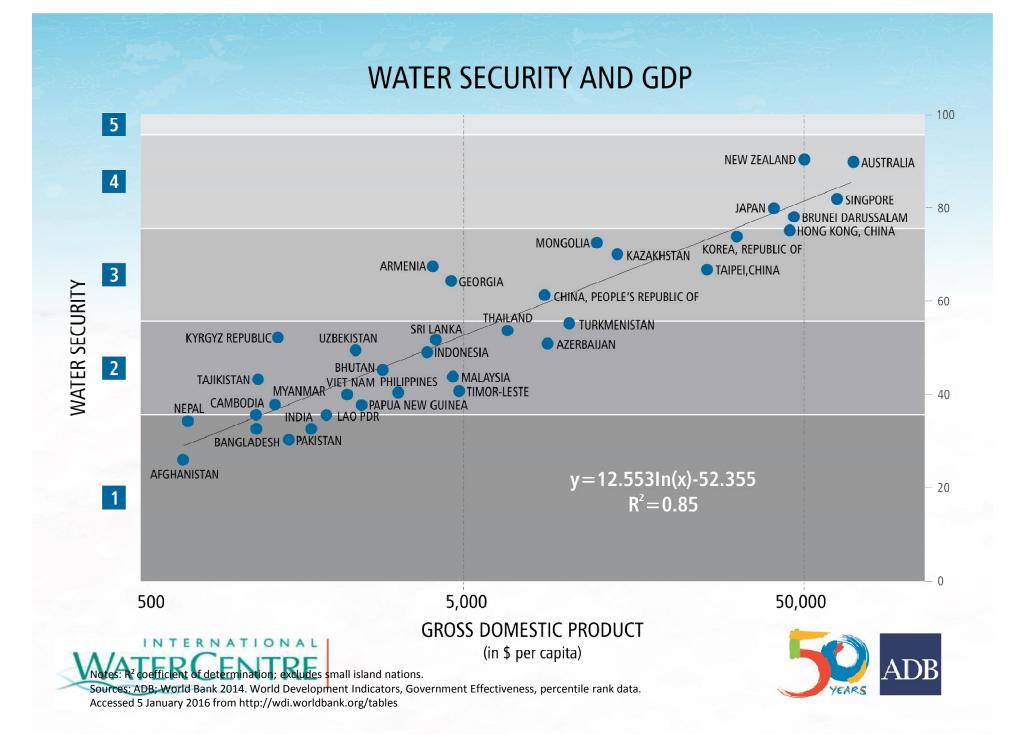


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WATER SECURITY AND GOVERNANCE

