





Adaptation to climate change in the Amudarya basin: data, information and knowledge sharing imperative

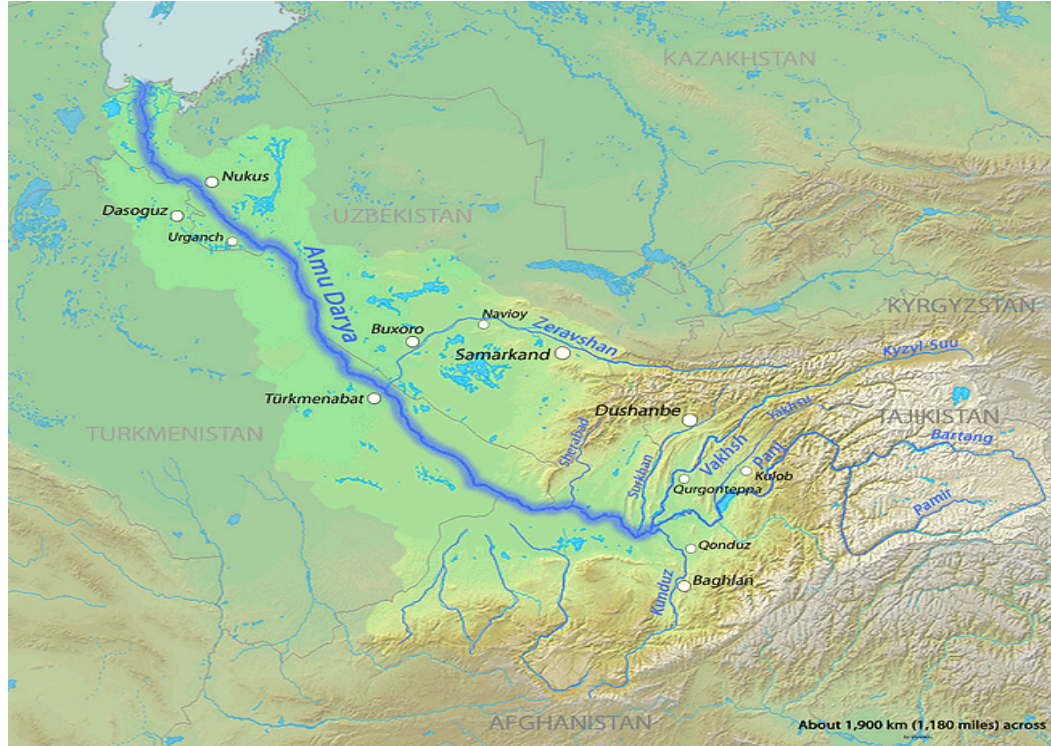
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Dr. Dinara Ziganshina

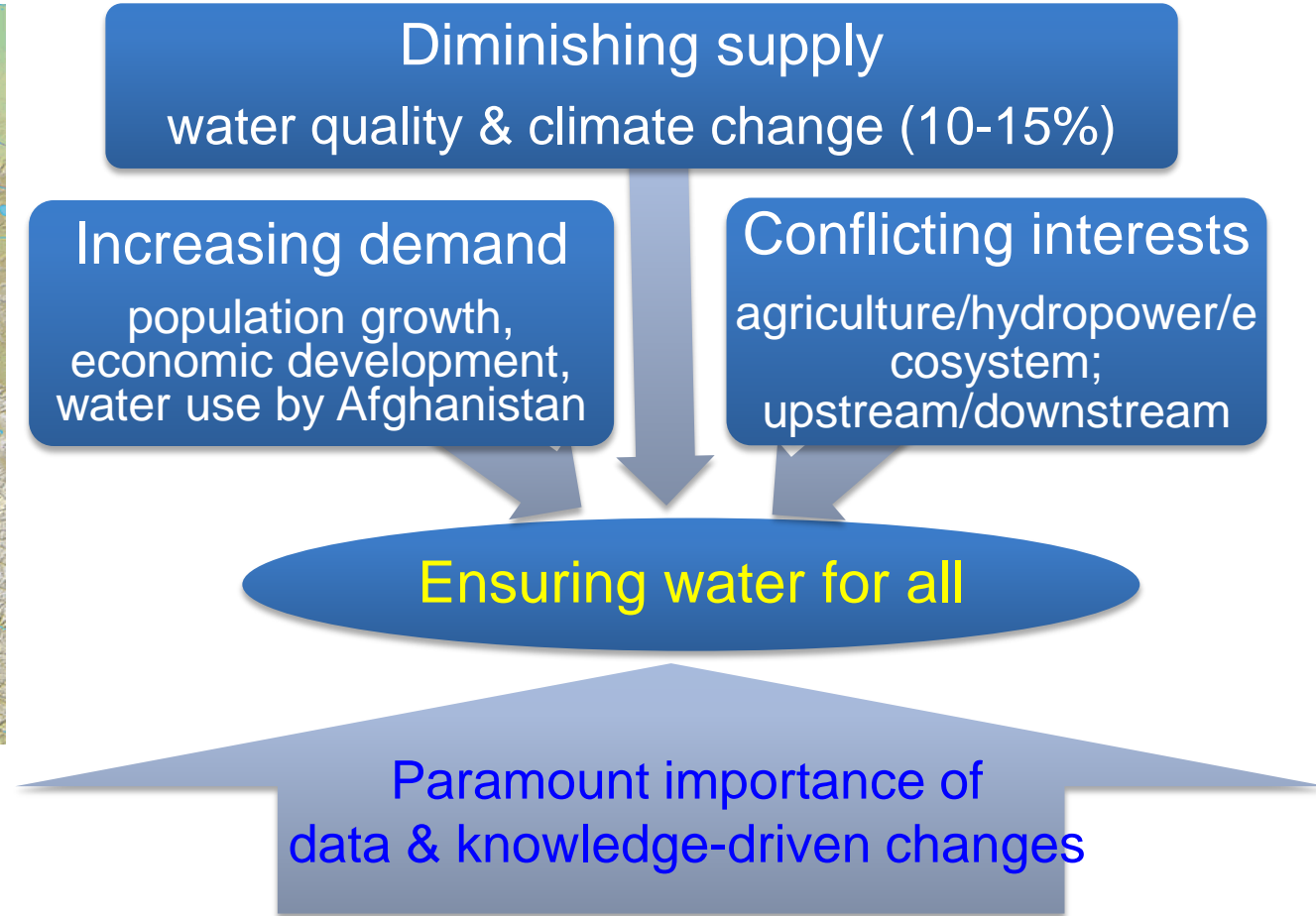
Scientific Information Center of Interstate
Commission for Water Coordination in
Central Asia



Amudarya and its key challenges



Afghanistan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan



Is the water management in the Amudarya adaptable to climate change?

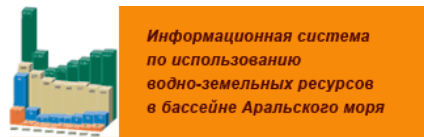
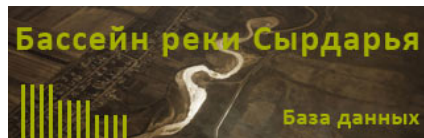
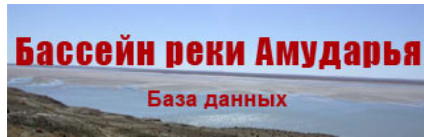
1. Flexibility of principles
2. Operational responsiveness, **information and knowledge exchange**
3. Modifications and revisions
4. Emergency response



USAID
FROM THE AMERICAN PEOPLE

Research project under «Partnerships for enhanced engagement in research” Cycle 4: Transboundary water management adaptation in the Amudarya basin to climate change uncertainties

Existing system of information exchange & decision support



Interstate Commission for Water Coordination in Central Asia

- Annual planning, monitoring and **operational** water management
- Data and **information** exchange within BWO Amudarya

CAWATERinfo

Portal on Water and Environment in Central Asia

- Databases on water withdrawals
- Knowledge base
- Regional information system on water and land

more than 150 parameters from

- Analytics
- ASBmm models

More than 45 GB information
More than 8,000 visitors a day

What should be improved?

Better deal with knowledge constraints:

- **Limited access** to data/knowledge, absence of effective knowledge transfer mechanisms
- **Knowledge** on water, food, energy, ecosystems & climate change **is incomplete**, & nested within different sectors, esp. in transboundary settings

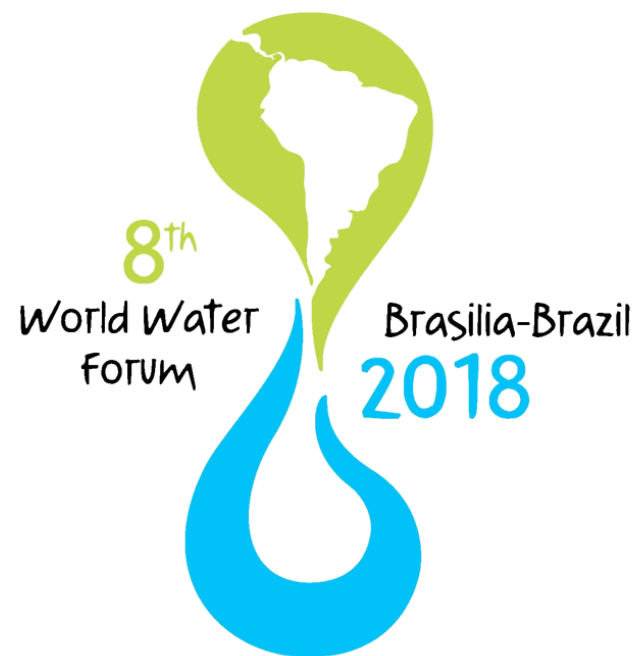
Knowledge providers and consumers



Add value through:

- More reliable **forecasts**, better **data/information**
- Enhance **regional ownership & exchange**
- Foster continuous **learning** and education
- Ensure data & knowledge **transfer** to end users
- **GIS** and remote sensing data
- Look **together into the future** – scenario modeling, research, action plans
- Strengthen **scientific & analytical basis**
- Increase **partnerships**: interstate, inter-sectoral, vertical, private, academia, NGOs, IFIs

Be ready to go beyond water and traditional approaches ...



Sharing Water

Organization



MINISTRY OF THE ENVIRONMENT



Support

