

Applying Hydro-Informatics to Introduce IWRM in Asian River Basins

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The Case of the Pyanj River Basin in Afghanistan and Tajikistan

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The impact of the regional technical assistance (RETA) will be improved water resources management in the Pyanj River Basin, and the immediate reduction of negative impacts from floods and bank erosion.

The RETA outcome will be improved knowledge, increased capacity, and strengthened institutions for planning and managing the Pyanj River Basin with a focus on flood management

Main IWRM Issues in the Pyanj River Basin

Important water resource management challenges that are being addressed in the basin

- 1. Incomplete knowledge and understanding of the hydrology**
- 2. Lack of understanding of the Pyanj River morphology**
- 3. Lack of modes or institutions to effectively coordinate a joint approach to basin planning, development, and management**
- 4. Lack of capacity to undertake the requisite activities for basin planning, management and development**

Ongoing / Planned Applications of Hydro-Informatics in the Pyanj River Basin

- 1. Develop a program to compile and manage technical and socioeconomic information to support immediate efforts to improve flood management**
- 2. Support broader planning and management activities throughout the Amu Darya Basin**
- 3. Coordinate ongoing activities of the governments, development partners, and nongovernmental organizations (NGOs) in the basin**
- 4. Directly support initial studies that address critical data gaps, focusing on hydrology, the hydrometeorology network, river morphology, and social and economic baseline data.**

Lessons Learned from Applications of Hydro-Informatics in the Pyanj River Basin

**New project with lessons learned
mostly in the future**

1. Time scale needed to develop a Knowledge Hub is much longer than the programme designers can imagine
2. Political differences between two countries can be severe
3. Security concerns overarch all other concerns

Expectations from the Regional Knowledge Hub and its Network

Expected knowledge and capacity development products, services, and other benefits from the regional water knowledge hub and its partners

- 1. Lessons learned from other river basins in the region**
- 2. Methodologies for linking together two countries with widely different water resource development experience**
- 3. Linkages for regional cooperation**
- 4. New technologies for development of knowledge hubs**