

# Strengthening Water Resources Communication and Automation Capabilities in Uzbekistan

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT

## PROJECT SUMMARY

Since the collapse of the Soviet Union, Uzbekistan's ability to operate and maintain its extensive irrigation infrastructure has been severely constrained. Riverside Technology, inc. developed a comprehensive plan and strategy to improve communication and automation capabilities within Uzbekistan's water user organizations and irrigation systems.

LOCATION  
Uzbekistan

PERIOD  
2002 – 2003

## PROJECT DETAILS

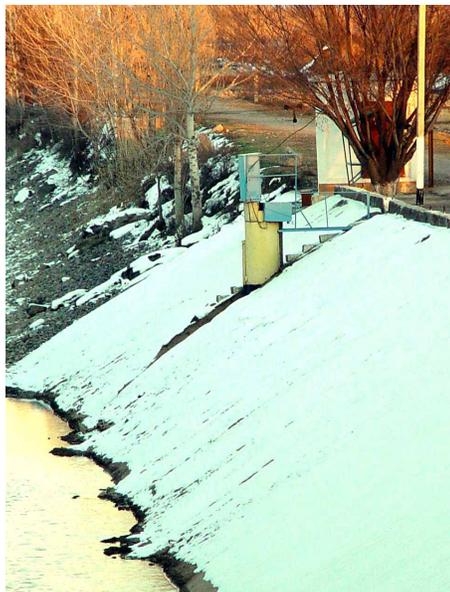
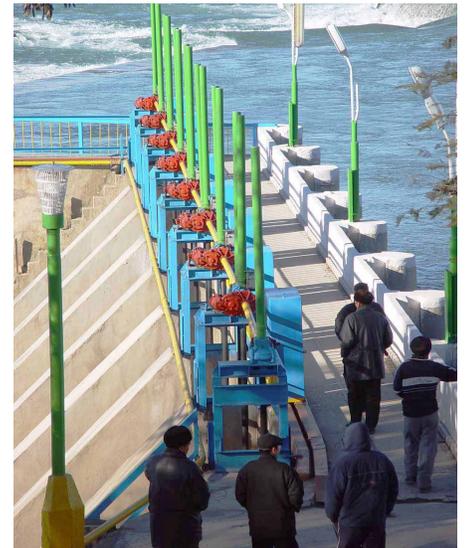
Since the collapse of the Soviet Union, Uzbekistan's irrigation infrastructure has deteriorated considerably. The old infrastructure and neglected water management practices have led to irrigation systems badly in need of physical and institutional repair.

Riverside Technology, inc. (Riverside) was contracted by PA Consultants, Inc. to assist Uzbekistan in improving their ability to operate and maintain the extensive irrigation infrastructure.

Riverside focused on evaluating the requirements and developing a coherent plan to improve irrigation communications and automation systems allowing regional irrigation organizations to convey water to their users more efficiently. In four separate irrigation regions, Riverside conducted meetings with local irrigation staff and other international donors to evaluate specific needs and requirements.

Based on these findings, a comprehensive plan featuring pilot projects was developed. Detailed specifications were developed to deploy voice and data radio systems throughout four irrigation regions, and one irrigation system used the largest trunk radio system ever deployed in Uzbekistan.

Detailed specifications were also written for the automation of key water control structures within some of the systems. Similarly, work began on a design for a series of flow monitoring stations with locations at strategic points throughout the irrigation systems.



## RELATED PROJECTS

Agricultural Sector Review and Planning in Uzbekistan

Amu Zhang Irrigation Rehabilitation Project

Surkhandarya Irrigation System Improvements

Decision Support System for the Syr Darya River Basin

Chhattisgarh Irrigation Development

Agricultural Irrigation Assessment in Moldova

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