► INFO FOR POLICY AND PRACTICE

Getting the Water Prices Right -An Incentive-Based Approach in Khorezm, Uzbekistan

Key Points and Policy Recommendations

Farmers are willing to pay higher prices for irrigation water, if the additional money is used to provide nonwater related social services, such as maintenance of local schools and health centers, training programs and microcredits.



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Bundling water fees with other social services can be used as an efficient tool to increase awareness and acceptance of water pricing, while the payments should be administered in a transparent way and benefit the entire community.

choice experiment coupled with a The introduction of water pricing, has been subject to debate for a long questionnaire with more than 100 farmers from the Khorezm region time. While seen as a powerful tool to enhance water use efficiency and in Uzbekistan. The current price decrease overuse, water pricing has for irrigation water in the region is very low (1US\$ per 1000 m³) and been opposed and proven inefficient comprises only a small fraction of a in many cases for various reasons. One major obstacle to introduce or farmer's income (Figure 1). raise prices for irrigation water is The results of the study show that farmers are willing to pay higher prices for irrigation water, if the additional money is used to provide non-water related social services, such as maintenance of local schools and health centers, training programs

the concern that pricing irrigation water could increase inequality and turn small farms unprofitable. In other cases water users are simply not willing to pay (more) for water because unlimited access to water is seen as a basic right. and microcredits. This indicates that To overcome this dilemma and increase individual benefits, such as access to farmers' willingness to pay it has been additional irrigation water, are not proposed to bundle charges for water the main driver to increase farmers' willingness to pay regarding irrigation with social services that benefit the entire community. These services can water, but social and communal benefits are a more powerful incentive include supporting local schools and health centers, offering educational to increase payments for water use. programs and microcredits or infrastructure development. The authors conclude that bundling

In this study, Bhaduri and Kloos farmers' increase propose to willingness to pay by bundling water services with additional nonadministered in a transparent way and water related services, in this case benefit the entire community. by providing community training programs, investing in local schools, However, in this case study the price health centers, and microcredits. for water is not based on the actual To assess the effectiveness of this water consumption by a farmer, but on the size of the farm. To efficiently approach the authors conducted a

water fees with other social services can be used as an efficient tool to increase awareness and acceptance of water pricing, while the payments should be



Figure 1: Options of the choice experiment; WUA spending refers to the spending of the Water User's Association for provision and maintenance of the irrigation system

reduce water withdrawal, fees need to be charged per volume of water consumed. The authors point out that, despite efforts by the Uzbek government to implement meters, the local circumstances in many parts of the country make it very difficult to control and measure the amount of

water abstracted by individual farmers and the cost to implement these devices is very high, but could be recovered by the increased fees.

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IMPRESSUM

Summary by Anna Schürkmann © Global Water System Project (GWSP) Intenational Project Office (IPO)

Editing and Design: Talin Holtermann, Sina Marx

The GlobalWater System Project seeks to answer the fundamental and multi-faceted question:

How are humans changing the global water cycle, the associated biogeochemical cycles, and the biological components of the global water system and what are the social feedbacks arising from these changes?

GWSP is a joint project of the four Global Environmental Change Programmes: DIVERSITAS, the international programme of biodiversity science, the International Geosphere-Biosphere Programme (IGBP), the International Human Dimensions Programme on Global Environmental Change (IHDP) and the World Climate Research Programme (WCRP).