

Appendix B-3a: Overview over types of applied project outcomes in the IWRM funding priority

Project	Approach / Topic	Outcomes for individuals / households	Outcomes for public administration and policy making	Outcomes for larger public	Capacity Development (CD)	Transformation knowledge; transferability
<i>Guanting, China (added to IWRM priority)</i>	Sustainable land and water use from climate, ecology, economy perspective		Modelling and scenario analysis for DS*		CD for technology use, science	¹
<i>Miyun / Peking, China (added to IWRM priority)</i>	Water supply from Miyun reservoir	Pilot project: sanitary concept / ecosan toilets for village	Monitoring and modelling for DS	Demonstration project: small-scale waste water treatment for rural areas	CD in administration	¹
<i>IWRM Shandong, China</i>	IWRM as a complex topic in need of integration		DS system software; Monitoring technology; Modelling	Pilot plant for water saving and reuse	CD for use of technology	¹
<i>IWRM Kidul, Indonesia</i>	Technology-focused project aimed at water supply; socio-economic analysis and technology assessment	Energy and gas generation for individual households	Web-based geo-information system	Adapted water pumping system; Water treatment technology; Technology for concrete reconditioning in cisterns; Renovation / optimisation of water pipes	CD for use of technology, on good governance, awareness raising	¹
<i>IWRM Mongolia</i>	IWRM with focus on management, CD, governance and pilot technologies	Dry / composting toilets	Monitoring concept for IWRM	Pilot plants water treatment	CD for technology use, in science, in primary schools	¹
<i>German-Uzbek Khorezm project (added to IWRM priority)</i>	Water scarcity as an ecological, economic and social problem	Innovations in agricultural irrigation practices; Alternative land-use practices	Modelling and analysis for DS; Strengthening water users' associations and decision processes; Influence on agricultural policy	Diversification of agricultural systems for sustainability	CD in science, on technology use, awareness raising, institutional CD	"Follow the Innovation" as method* for successful innovation, ¹

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AKIZ, Vietnam (added to IWRM priority)	Industrial waste water management and technologies		Monitoring and analysis; Management concept for industrial zones; Influence on legislation	Industrial waste water treatment technologies	CD for use of technology	¹
IWRM Vietnam	IWRM as an integrated concept, focus on governance, institutions, systems analysis		Planning and DS tools; Pilot measure GIS quality monitoring	Pilot plant drinking water treatment and supply	CD for use of technology	¹
WISDOM, Vietnam (added to IWRM priority)	Sustainable development of water and land use		Water and land information system; Establishment of a German-Vietnamese water office		CD in science, on technology use, awareness raising in public	Transfer of information system to North Vietnam; ¹
IWRM SUMAR, Dead Sea Region	Interdisciplinary approach to overcome water scarcity		Water quantity monitoring stations; Modelling / analysis-based information for DS; Management concept			¹
IWRM SMART, Israel/ Jordan/ Palestine	IWRM as an integrated concept, complex issue, focus on CD, participation, governance, pilot technologies		Knowledge management / data/ information system for DS; Cost-benefit analysis for alternative management practices; Establishment of a national implementation committee in Jordan	Desalination pilot plant; Decentralized wastewater treatment and reuse pilot plant	Encompassing CD – in science, for school teachers, students	Reflections about institutional and administrative barriers to innovation, ¹

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<i>IWRM Isfahan, Iran</i>	Water from holistic perspective; incl. needs of different sectors; participation / integration as principles		Simulation-based water management tool; DS system; Monitoring system; Institution building (data commission)	Innovations in the agricultural sector (water efficiency); Pilot projects reduction of leakage, patterns of water consumption	CD on technology use, awareness raising in public	Reflections about knowledge integration, participation, ¹
<i>IWRM CuveWaters, Namibia</i>	Adapted multi-technology mix; participation as principle	Pilot for flood-water storage, combined w/ drip irrigation; for rainwater collection on household level	Institution building	Sanitation concept involving water reuse, wastewater treatment and energy generation; Pilot for ground water desalinisation	CD for use of technologies, science	Accompanying research on implementing technologies, ¹
<i>IWRM Olifants, South Africa</i>	Sustainable IWRM approach based on financial value creation in water		Water management concept based on water franchise model; Private sector participation in management			¹
<i>IWRM Volga / Rhine</i>	IWRM for basins with different water usages		DS system; Web-based geo-information system for environmental monitoring	Pilot for renovation of water constructions		¹
<i>IWAS (added to IWRM priority)</i>	IWRM concept for different model regions, incl. scenario/ system analysis, technology dev./ implementation, governance; CD		Modelling, analysis for DS; Management concept, IWAS toolbox; Recommendations for governance structures	Pilot plants for sewage treatment and drinking water processing; Prototype for detection of pathogens	CD on financing, technologies, in science; e-learning	¹

Source: own elaboration based on BMBF 2014v; Ibisch et al. 2013 and interviews with project participants. – * DS: decision support, td: transdisciplinarity –¹ The IWRM accompanying project worked on crosscutting aspects of governance; capacity development, decision-support, participation and institutional analysis; AIM worked on financing large-scale technology innovations.