



AgEcon SEARCH
RESEARCH IN AGRICULTURAL & APPLIED ECONOMICS

The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search
<http://ageconsearch.umn.edu>
aesearch@umn.edu

*Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.*



Promoting Capacity Building and Water Cooperation in CA

**CAREC,
Samarkand, 2-4 November 2016**

15 YEARS OF EXPERTISE FOR BETTER ENVIRONMENT

CAREC Water Goal

- Promotion of best water management practices, IWRM, cross-sectoral cooperation and sustainable capacity building in water resources management at the regional, national and local levels in Central Asia



Main Directions

I. Water quality and environment : water quality and its standards, improvement measures, cooperation mechanisms, payment for ecosystem services (PES)



II. Transboundary cooperation: on small watersheds, for local communities, work with Conventions, with different stakeholders on basin planning, establishment of the regional working groups

III. Capacity development in water sector: thematic studying modules, handbooks, infographcs, CDs and books

IV. Knowledge Hub and cooperation platform: cooperation with science/studying institutions in CA, with regional organizations, support of informational web-portals

Instruments and methods

- **Water quality and environment:**
 - Promoting cooperation on water quality issues;
 - Introduction of innovative economic instruments, inter alia payments for ecosystem services and economical evaluation of the ecosystems;
 - Improvement of access to clean drinking water.
- **Transboundary cooperation:**
 - Promoting IWRM principles on local level;
 - Establishment and support of Small Basin Councils (SBC);
 - Support in development of Basin Plans for small basins;
 - Implementation of technical pilot projects aimed at solving water problems on local level;
 - Establishment and support of the thematic regional working groups.

Instruments and methods

- **Capacity development in water sector:**
 - ToTs on IWRM, best practices, Basin Planning, PES, water quality;
 - Technical training on new water saving technologies, water measurement, improvement of water allocation and others;
 - Online courses on water management aspects.
- **Knowledge Hub and cooperation platform:**
 - Development of handbooks, methodological recommendations, assessment and analytical reports;
 - Demo and study tours on the “best practices”;
 - Support to thematic networks related to water;
 - Development and support of specialized web-portal www.riverbp.net;
 - Work with academia and students in Central Asia.

Water quality and environment

Partners: UNECE, Norwegian Ministry of Climate and Environment, Swiss Re, UNEP, USA, German MIA

- The **Plan for development cooperation** related to water quality issues in Central Asia has been **developed**, water quality **monitoring methodology** for transboundary watersheds has been **adopted**;
- Pilot projects on use of **innovative economical instruments** in water resources management and ecosystem management;
- **Methodology on rural water supply systems management** has been developed and adopted (13 villages with about 13 000 people provided the access to clean drinking water).



К РАЗВИТИЮ РЕГИОНАЛЬНОГО СОТРУДНИЧЕСТВА
ПО ОБЕСПЕЧЕНИЮ КАЧЕСТВА ВОД
В ЦЕНТРАЛЬНОЙ АЗИИ

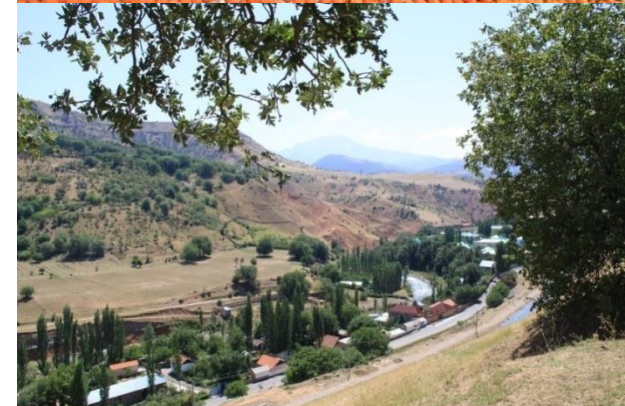
Диагностический доклад и план развития сотрудничества



Transboundary cooperation

Partners: USAID, Norwegian Ministry on Climate and Environment, GIZ, EC, Coca Cola

- **Local communities** are **involved** in problem solving on small transboundary watersheds in Central Asia;
- **Small Basin Councils (SBC)** established and supported (Aspara, Isfara, Ugam, Aral-Syrdarya)
- **Methodological** and **structural support** was provided in the process of **Basin Plan development**;
- **Prioritized activities** indicated in the Basin Plans are being piloted;
- **Economic instruments** has been adopted and approved for SBC sustainability.



Capacity building challenges in water sector

- Lack of sustainable knowledge exchange and transfer on policy, technical, and community levels between the countries;
- Outdated approaches in teaching and capacity building methods;
- Outflow of young specialists from agricultural & water sectors;
- Limited opportunities for upgrading professional education negatively affect management of shared water resources.

CAREC approach for Capacity building

- Sustaining and institutionalizing the support
 - Work with existing training centers rather than conducting trainings (interactive map and database);
 - Facilitate cooperation of training centers on national as well as regional levels;
 - Use ToT approach;
 - Needs based;
 - Innovation transfer – adaptation to local context - ownership;

Capacity building in water sector

- Sustainable support of future water specialists and researchers:
 - Support of MSc students;
 - Annual leadership program;
 - Joint supervision of students;
 - Involving students in the needs assessment at the pilot basins;
 - Collection of best practices, data and information by interns.



Knowledge Hub and cooperation platform

- Knowledge platform and innovative tools:
 - CAREC knowledge portal www.carececo.org;
 - Thematic websites on water (riverbp.net; iwebtempus.kz), energy (caeelp.com), climate (led-ca.net);
 - Webinars and e-learning courses on IWRM, basin planning, ecosystem services and others;
 - Thematic knowledge products (guidelines, methodology, training modules).



CAREC Water Projects

- Smart Waters: Water, Education and Cooperation (USAID, 2015-2020);
- Water cooperation in CA (EU, 2015-2017);
- Fostering Transboundary Cooperation on Small Watersheds in CA (USAID, 2012-2016);
- National water dialogues (EU, 2008-2009);
- Water quality in Central Asia (UNDP, 2009-2012);
- Transboundary Water Management in Central Asia (GIZ, 2010 – on-going);
- Integrated water cycle management: capacity building, its influence on education system and business, TEMPUS (EU, 2012-2016).

CAREC's Water Strategy 2020

- Support to IWRM principles and basin planning in Central Asia through active involvement of stakeholders;
- Introduction of NEXUS approach through development of water-energy-agriculture linkages;
- Establishment of methodological center and platform for inter-governmental, intersectoral and multi-level cooperation on water issues in Central Asia;
- Improvement of thematic water networks in CA;
- Improvement cooperation with regional institutions on water and academia in CA.

Future Water Vision

Directions	Potential partners and donors
Sustainability of water infrastructure	GIZ, UNECE, IHAS, IFAS
Water quality in Central Asia	UNECE, Hydromets from CA
Facilitation of transboundary water cooperation	USAID, EU, SDC, ICWC, IFAS
Economic and financial instruments for effective water management	Norway, ICARDA, SDC, IAMO
Improving linkage between science and practice: work with students and young leaders	USAID, Norway, the World Bank Group, UNEP, SIWI, IAMO, CAWa and universities
Capacity building in water sector	EU, USAID, ICWC, existing training centers in CA
Water diplomacy	EU, SIWI, UNRCCA

Thank you for attention!