

Green Central Asia within German and International Cooperation in the Region

Seventh EU–Central Asia High-Level Conference on Environment and Water Cooperation

24 February 2023 – Dr. Caroline Milow



Climate change impact in Central Asia – Water Stress



Source: Eurasian Development Bank, Investment in the Energy and Water Complex of CA

Germany's engagement in Central Asia – ,green' portfolio

Commissioning Ministries

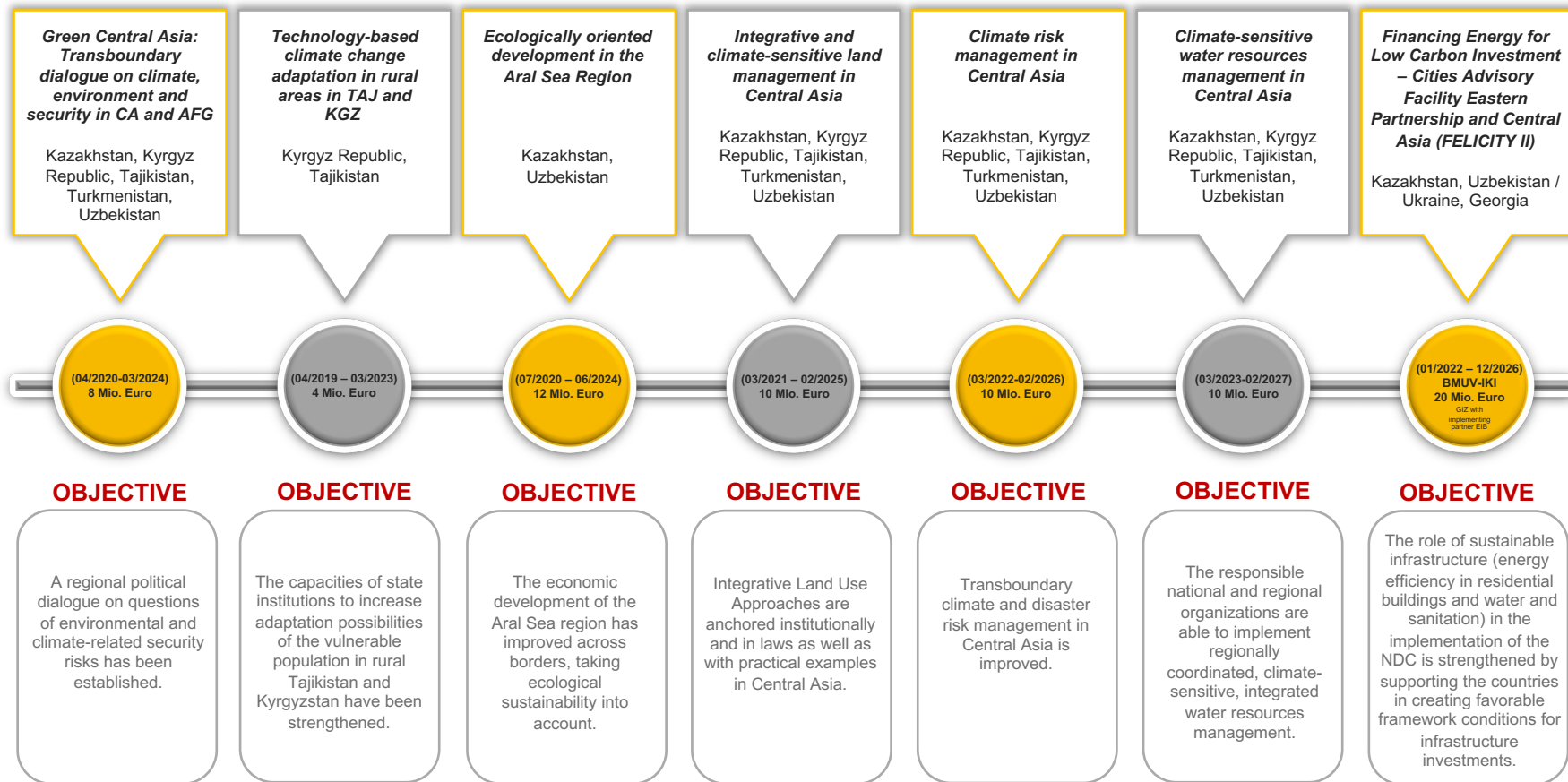


- Federal Foreign Office (AA)
- Federal Ministry for Economic Development and Cooperation (BMZ)
- Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV)
- Federal Ministry of Research and Education (BMBF)

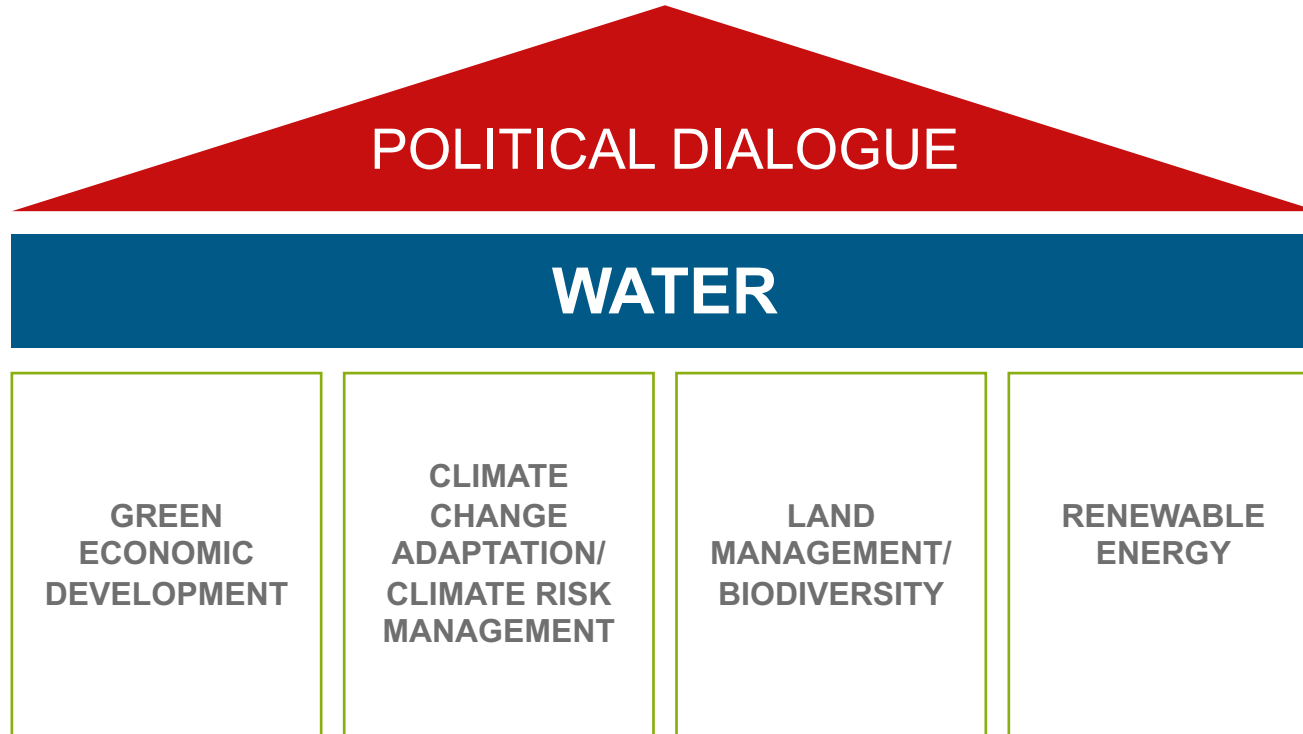
In close cooperation with the Central Asian Partner Countries engagement on:



- Improvement of framework conditions for integrative land use approaches
- Development of national spatial data infrastructures
- Establishment of transboundary cooperation mechanisms
- Strengthening of transboundary protected area management
- Improvement of regional water management
- Improvement of transboundary climate and disaster risk management
- Capacity building, knowledge management and information exchange



Germany's ,green' portfolio in Central Asia



International-Regional-National Framework



UNFCCC & Paris Agreement
Sustainable Development Goals
International Environment Instruments (UN, UNECE)



National Strategies and Action Plans in the Central Asian Partner Countries



ASBP-4
Regional Environment Action Plan



EU-Central Asia Strategy, June 2019
Regional Team Europe Initiative on on Water, Energy
and Climate Change in Central Asia / Global Gateway

Green Central Asia

The overall goal of the initiative is conflict prevention and strengthening transboundary cooperation on climate impacts in Central Asia.



Project goal: A regional political dialogue on questions of environmental and climate-related security risks has been established.

Green Central Asia Initiative - Structure



2022 Highlights of the Green Central Asia Dialogue Platform: Regional Climate Change Adaptation Strategy

STRATEGIC OBJECTIVES

- 1 Strengthening regional coordination for climate change adaptation
- 2 Creation of mechanisms for the development and implementation of adaptation projects/programmes and attraction of financing
- 3 Improvement of adaptive capacity through accumulation and sharing of knowledge and scientific cooperation
- 4 Development of climate monitoring, information exchange and forecasting systems



**Draft Regional Climate
Change Adaptation
Strategy for Central Asia**

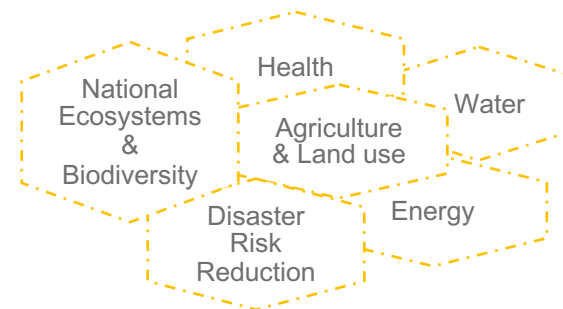


Working Group
Meetings

Nat. Expert Group
Meeting

Int. Expert Input

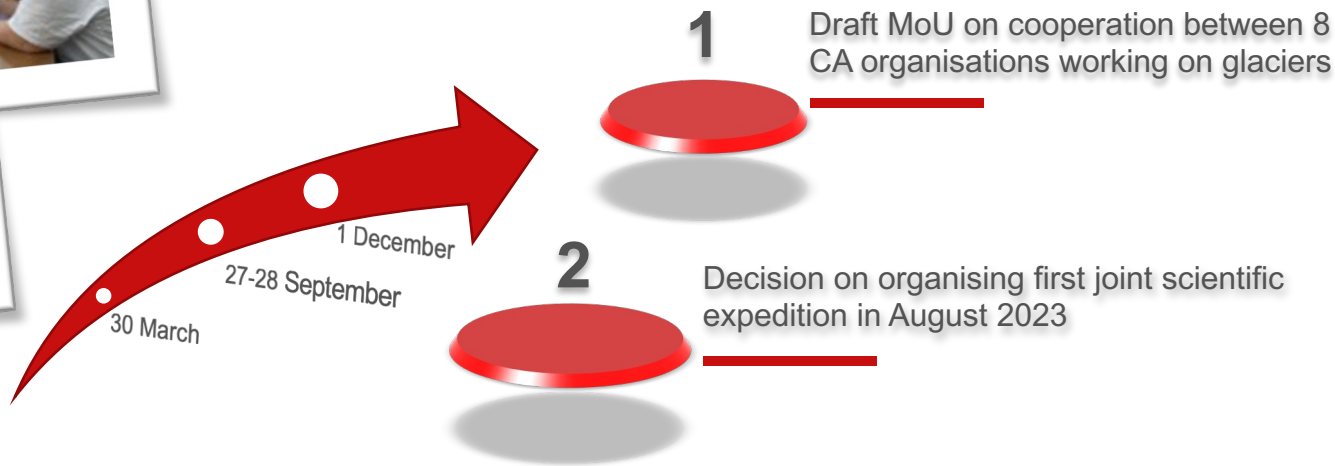
PRIORITY AREAS



2022 Highlights of the Green Central Asia Dialogue Platform: Glacier Monitoring and Modelling in Central Asia



Working Group and Expert Meetings



2022 Individual Highlights of the Green Central Asia Dialogue Platform

Dushanbe Water
Conference: Panel Session
3: Water, Environment and
Climate Resilience



Working Group meeting on a
mutual beneficial water-energy
mechanism in CA



Workshop “Regional Dialogue
on transboundary cooperation
on management of protected
areas in Central Asia



GCA Session at Berlin
Climate and Security
Conference



UNDP-GCA: High-Level Central
Asian Dialogue on Climate
Change and Resilience



2 regional Parliamentarian-MFA
Meetings on Environment and
Climate Change in CA



Revival of the CA
Regional Group within
the Ramsar Convention



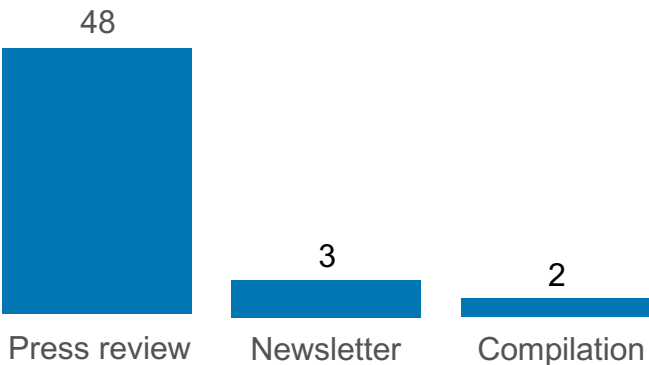
Int. cooperation: TEI on water, energy and climate change in CA, ADB Water Pillar, WB, SDC

Green Central Asia Outreach in 2022



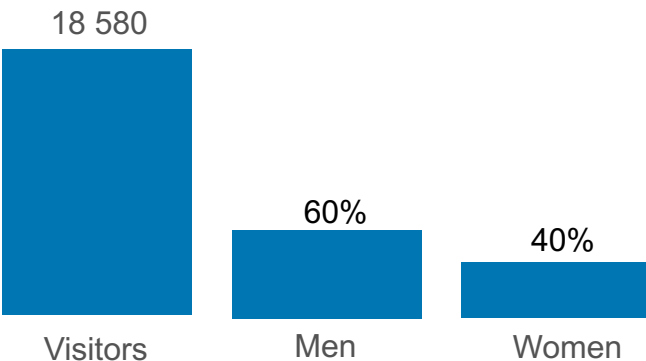
www.greencentralasia.org

Visitors: 16.400



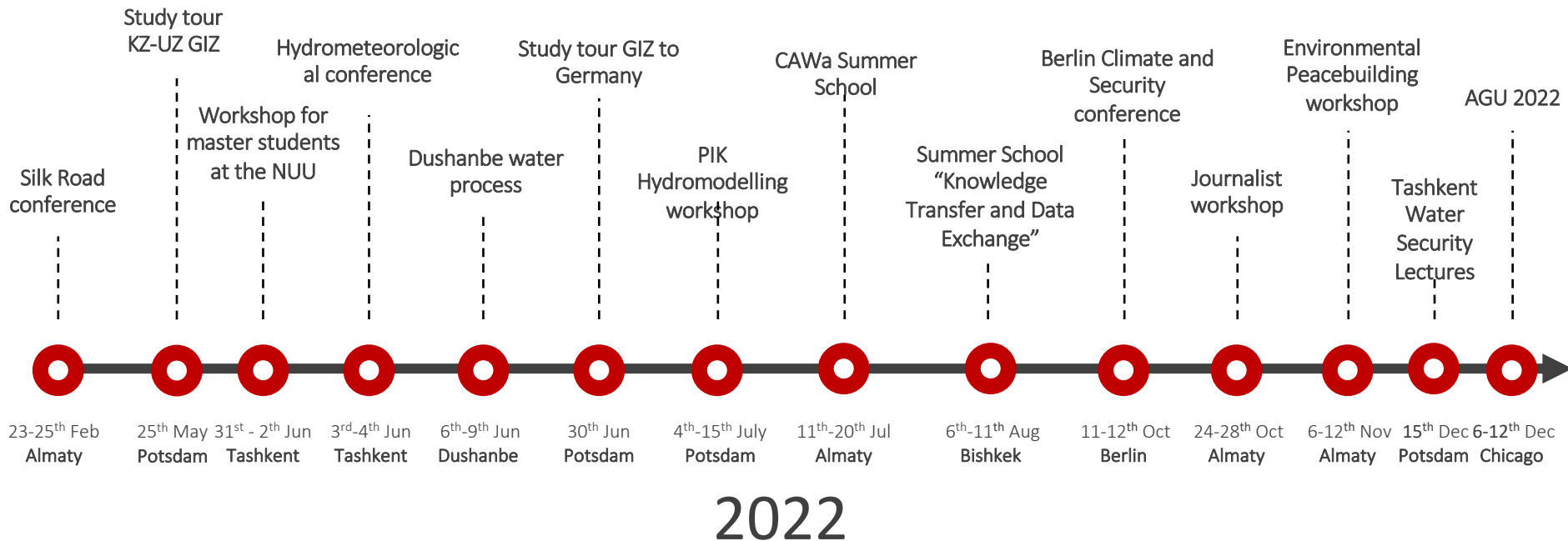
FACEBOOK

Followers: 580



Capacity building events timeline PIK

*organized / co-organized / participated



2022

Research activities PIK



3

papers submitted
in 2022

+1

will be submitted
by end of Jan 2023

- **Production of high-resolution climate projection for the entire Central Asia**
Statistical and Dynamical Downscaling | Climate Data Analysis
- **Assessment of climate impact on water resources of Central Asia**
Hydrological modelling | Analysis of annual, seasonal flow and extremes (floods and droughts) under climate change | Attribution of climate change
- **Crop modelling under climate change**
Agricultural data analysis | Yield and crop production forecast for Kazakhstan
- **Environmental Peacebuilding**
Desk research on climate adaptation as a tool for enhancing social cohesion
- **Water-related conflicts between Kyrgyzstan and Tajikistan**
Desk research in partnership with DKU: Qualitative-comparative-analysis of water-related outbreaks of violence in Central Asia

SWIM online application



Activities in 2022

Technology development and transfer

- MODSNOW Support to Hydromet Services (Kaz, Kyr, Taj, Tkm, Uzb)
- MODSNOW implementation at Uzbekhydroenergy, Center for Glaciers in Taj
- Specification and Development of a drought monitoring tool for the Aral Sea Basin (together with GIZ):
 - Online meetings and common workshop in Tashkent with stakeholders, e.g. NMHSs of the region, Scientific Information Center of the ICWC in Central Asia
 - Development of beta version (tool and bulletins)
- Provision of climate data for public use
- Glacier Monitoring and Modeling



Green Central Asia

Enhancing environment, climate and water resilience

Summer School on the Aral Sea 2020-2022



The annual summer school aims to inspire young people to choose natural solutions when solving environmental problems;



Participants from all Central Asia countries and Afghanistan and international partners;



International and local trainers;



Special topic each year;



Theoretical training, field excursions, and case-study development and presentation.

40 SS participants
2020-2022

8 small research grants
2020-2022

Online International Conference The Silk Road of Knowledge: Science Meets Green Policy

The conference aims at providing innovative solutions for the five Central Asian economies by:

- presenting and discussing policy proposals on innovative science-based solutions;
- informing on decision-making processes based on scientific research in the field of integrated water and land resources management, food security, infrastructure, etc. in Central Asia;
- presenting innovation for development;
- involving youth in scientific research and decision-making processes.

Pre-sessions

Youth session on innovation for development
Innovation session for science and business

More than 500 participants
2020-2022

8 policy-briefs
2022

Thematic sessions

Water
Climate
Crops
Soil
Rangelands
Security

Energy
Transport
WASH
Gender
Small towns
Green Hydrogen



<https://crs.dku.kz/en/research/publications/policy-papers/>



“Climate Risk Management in Central Asia”

The project is part of the regional climate and security initiative “Green Central Asia” of the German Federal Foreign Office.



POLITICAL PARTNERS

Kyrgyzstan: Ministry of Natural Resources, Ecology and Technical Supervision
Kazakhstan: Ministry of Ecology, Geology and Natural Resources
Tajikistan: State Committee for Environmental Protection
Turkmenistan: Ministry of Agriculture and Environmental Protection
Uzbekistan: State Committee of Ecology and Environmental Protection

FUNDING SOURCE

BMZ (German Federal Ministry for Economic Cooperation and Development)

IMPLEMENTED BY

GIZ

BUDGET

10 mln EUR

PROJECT TIMEFRAME

Project timeframe

Climate Sensitive Water Resources Management in Central Asia



Source: ZOI Environment Network

Commissioned by

Federal Ministry for Economic Cooperation and Development

Project Value

10.000.0000 Euro (planned SDC co-financing – 2.500.000 Euro)

Project Region

Central Asia: Kazakhstan, Kyrgyz Republic, Tajikistan, Turkmenistan, Uzbekistan

Main Partners

Ministries/State Committees for Water Resources

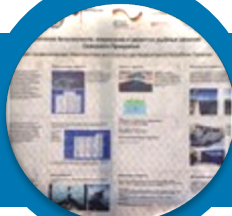
Duration

03.2023 – 02.2027

Climate Sensitive Water Resources Management in Central Asia

Basin Dialogues

- Amu Darya
- Syr Darya



Capacity Building of Basin Organisations

- Cooperation with CA universities
- Development of regional training curriculum
- ToT – focal point selection



Pilots in selected IWRM sectors

- Water quality monitoring
- Groundwater monitoring
- Automatisatation of transboundary irrigation canals

Contact



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<https://www.facebook.com/gizprofile/>

Impressum

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POTSDAM INSTITUTE FOR
CLIMATE IMPACT RESEARCH

