



# Green Central Asia

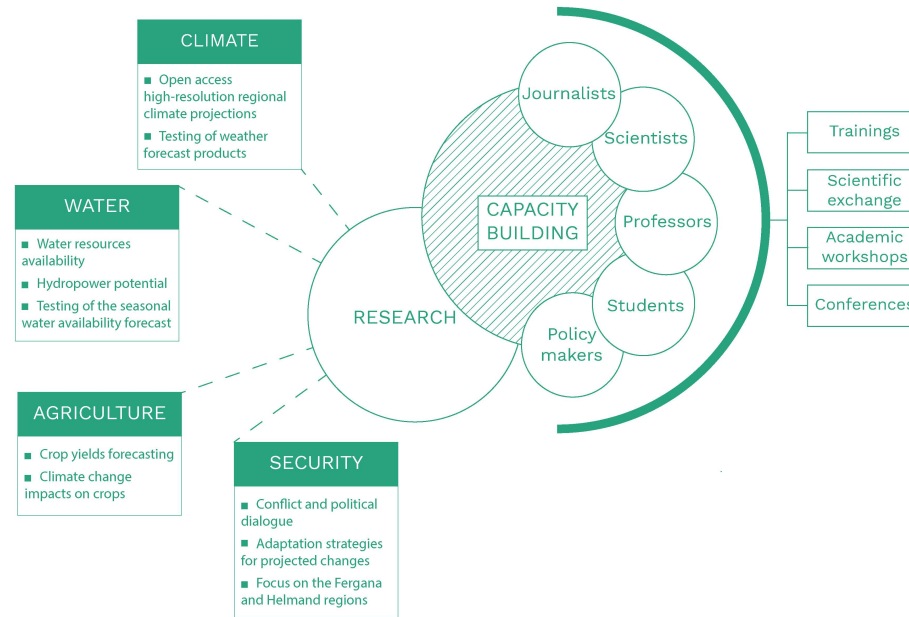
Enhancing environment, climate and water resilience



Federal Republic of Germany  
Foreign Office

Central Asia is one of the regions, most vulnerable to climate change. Green Central Asia is a regional initiative, funded by the Foreign Office of Germany on the topics of climate and security in Central Asia and Afghanistan, aiming to enable regional dialogue on climate change impacts and risks.

Through Green Central Asia, the **Potsdam Institute for Climate Impact Research** will deepen the scientific understanding of climate impacts and risks to water availability, agricultural production and security in the region, and will contribute to strengthening local climate capacities.



## Capacity Building

We will aim to strengthen the local capacities for sustainable resources management and climate impact assessments in the region. We will work together with different stakeholder groups, tailoring trainings specifically tailored to their needs, in order to contribute to areas where it is needed. We will also support local scientists and offer them research stays at PIK.

## Climate

The climate team at PIK will focus on the creation of open access, high-resolution climate projection data, developed specifically for the region. We will assess the performance of dynamical as well as statistical downscaling for global climate simulations and the performance of mid-term weather forecasts.

## Agriculture

The agriculture team will supplement the existing agricultural information systems by risk assessments under changing climate conditions, focusing on extreme weather events, in short and mid-term. We will focus on the main crops in the target area: wheat, barley, maize and cotton and will look at their suitability in the region under changing climate.

## Water

The water team will focus on assessment of climate change impacts on water resources for main river basins in Central Asia and Afghanistan, including reservoir operation and hydropower production in selected pilot regions. We will look at the changes in hydrological extremes and will test the applicability of short/mid-term weather forecast products for spring floods simulation.

## Security

The security team will focus on the assessment of current levels of political dialogue among Central Asian states plus Afghanistan. We will examine underlying social dynamics, as well as conflicts among diverse communities and will explore additional or alternative mechanisms, such as dialogue and climate change adaptation measures.

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