

Technology based Climate Change Adaptation in rural Areas of Tajikistan and Kyrgyzstan (TCCA-RA)



Implemented by



Partner:

Kyrgyzstan

- State Committee on ITC
- Cadastral Department

Tajikistan

- Committee for Emergency Situations and Civil Defense
- FAZO

Volume: Euro 4 million

Duration: 07/2019 – 03/2022

Commissioned by: BMZ (DKTI)



Context

- Impacts of Climate Change in Central Asia
 - Glacier and water resources
 - Drying up of springs
 - Desertification
 - Weather anomalies and natural hazards
 - Welfare of rural people
- The German Climate and Technology Initiative (DKTI) propagates the application of modern technology for climate change adaptation
- BMZ commissioned a DKTI funded project to GIZ for implementation in Tajikistan and Kyrgyzstan

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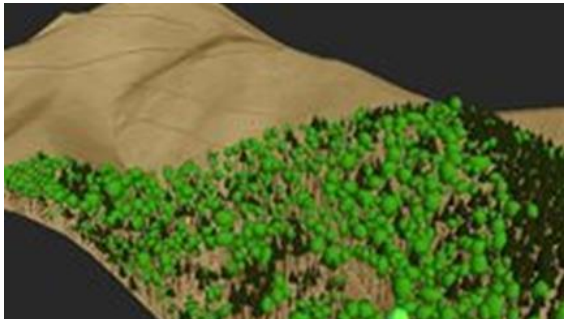
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Objectives

- Government agencies have improved capacities for enhancing the climate change adaptability of the vulnerable rural population
 - Remote sensing technology and image processing
 - Climate modelling
 - Geographical Information Systems
 - Spatial data management
- Promotion of evidence-based and data driven planning of climate change adaptation measures
- Create a legal framework for Geodata sharing including guidelines, standards and rules (National Spatial Data Infrastructure, NSDI)
- Modernize digital data management
- Identification of adaptation measures at local level using spatial information and showcasing their realization

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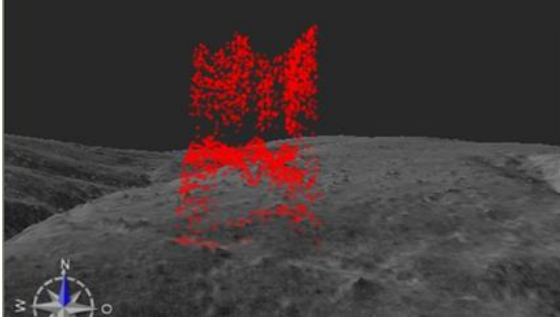
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Measures

- Capacity Development to strengthen partner organisations and structures
- Technical support for partner institutions in satellite image processing
- Formation of operators for evaluation of satellite data and GIS
- Data collection and verification of image analyses in the field
- Development of database management systems and exchange platforms for Geodata
- Training of stakeholders and planning experts on regional and village level
- Support development of local adaptation plans for action
- Regular intergovernmental meetings to harmonize implementation process
- Knowledge management, dissemination of experiences and good practices

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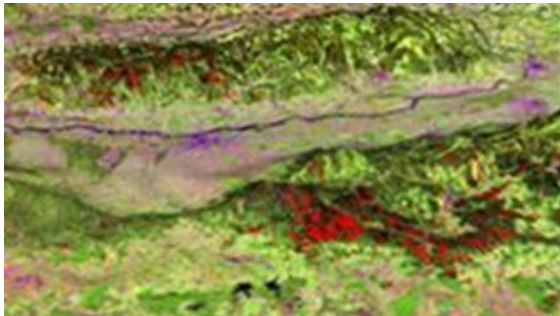
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Expected Impacts

- Standards, guidelines and agreements for usage and sharing of Geodata are available
- Digital platforms for the exchange of spatial data have been set up
- Spatial information is integrated in planning processes on national as well as on local level
- Climate change adaptation and land-use management plans are improved
- Personal and institutional capacities in governmental institutions are developed and full ownership for Geodata management is established

As a federally owned enterprise, GIZ supports the German Government in achieving its objectives in the field of international cooperation for sustainable development.

Published by:

Deutsche Gesellschaft für
Internationale Zusammenarbeit (GIZ) GmbH

Registered offices
Bonn and Eschborn

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German Federal Ministry for Economic Cooperation and Development (BMZ)

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