



Ecosystem Based Land Use and Ecosystems Conservation along the Lower reaches of Amu Darya (IKI Amu Darya)

Background of the project

Changes in water flow regimes in Central Asia and using most of the water in the Amu Darya downstream section for irrigation, also changes in seasonal water availability potentially result in massive economic losses for the population and progressive destruction of the remaining Tugai forests. The strategies for climate change adaptation adopted by Turkmenistan and Uzbekistan have up to now not made full use of the potential of ecosystem-based approaches related to land use and protecting the valuable Tugai forest biodiversity.

There is need for raising awareness regarding existing ecosystem services and the way of reinforcing or making better use of those, in a sustainable manner.

Our objectives

The program supports the governmental and local partners in Turkmenistan and Uzbekistan in the development of Ecosystem-based Approaches in land use and biodiversity conservation in the lower reaches of Amu Darya, as well as in the conservation of forests in the riparian Tugai zone, with special climate change aspects.

Assistance in the development of EbA models countering land degradation

Based on past studies and pilot measures further analysis will be carried out describing ecosystem services, best practices and framework conditions conducive to achieve a multiplier effect. Environmental and socio-economic analysis (level of degradation established through GIS maps 1:100 000, environmental economic and costs analysis of land use, economic valuation of ecosystem ser-

vices) of degraded land will be made available to decision makers in both countries. Ecosystem-based adaptation measures will be identified and implementation initiated.

Tugai Forest/ (Biosphere) reserve strengthening

In Uzbekistan the Lower Amu Darya State Biosphere Reserve (LABR) formed in 2011 at the initiative of the Government is still pending international recognition. Employees from the Lower Amu Darya Biosphere Reserve and other relevant stakeholders will be supported by allowing simultaneously preserving valuable ecosystems, thus contributing to the region sustainable development and international recognition of the reserve.

An adapted management plan for the LABR and the preparation of the nomination dossier for the recognition by UNESCO Program “Man and the Biosphere” (MAB) will be elaborated.

In Turkmenistan, advice will be provided in the form of recommendations on land use planning and grazing, while preserving natural resources along the Amu Darya.

Published by:

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

On behalf of:

 Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety

of the Federal Republic of Germany



Expected Results

The land use opportunity cost of Forest Ecosystems compared to agriculture will be analyzed providing decision makers with relevant information. The pressure on the Tugai ecosystems will be decreased contributing to their resilience. The improved capacity among local and national actors and the achieved results of the project will raise the commitment to introduce and spread ecosystem-based approaches.

The partners will be able to independently identify and implement cost-efficient and climate-smart land use and biodiversity conservation measures and to incorporate them into national climate change adaptation strategies as well as in regional and international discussions.



Published by:
Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Registered offices Bonn and Eschborn

Address
7a, Chimkentskaya str.
100029 Tashkent, Uzbekistan
T +998 71 280 67 51
F +998 71 280 67 52

E info@giz.de
I www.giz.de, www.naturalresources-centralasia.org

Project:
Regional Project "Ecosystem based land use and Ecosystems conservation along the lower reaches of Amu Darya"

This project is part of the International Climate Initiative (IKI). The Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) supports this initiative on the basis of a decision adopted by the German Bundestag.

Author/Responsible:
Julian Schlubach

Design:
Kamalova Mukhabbat

Photo credits/sources:
GIZ

On behalf of
The Federal Ministry for the Environment, Nature Conservation and Nuclear Safety of Germany (BMU)

In cooperation with
State Committee on Forestry of the Republic of Uzbekistan, Michael Succow Foundation

GIZ is responsible for the content of this publication.