



**FAO-GEF Regional Project “Integrated management of natural resources
in drought-prone and salt-affected agricultural production landscapes of
Central Asia and Turkey (CACILM II)”**

TURKMENISTAN



Hanekov Rahmanberdi, National Project Manager



Project Goal

To scale up integrated natural resources management (INRM) in drought prone and salt affected agricultural production landscapes in the Central Asian countries and Turkey. Adoption of integrated landscape management approaches and INRM practices should help stabilize and even reverse trends of soil salinization, reduce erosion, improve water capture and retention, increase the sequestration of carbon, and reduce loss of agrobiodiversity, thereby reducing the desertification trend in terms of extent and severity



PROJECT GENERAL INFORMATION

Target countries:

Kazakhstan, Kyrgyz Republic, Tajikistan, Turkmenistan and Turkey

Project Duration

2018-2022 (extension is expected)

Partners

GEF, FAO, Bioversity Int, CAREC, GIZ, ICARDA, ICBA, IFAS, IWMI, UCA, WOCAT, ZOI, and national partners



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Project Agreement between FAO and the Government of Turkmenistan was signed on 11 August 2019

Implementing Partner:

Ministry of agriculture and environment protection of Turkmenistan

Project National Partners:

- **State Committee on water economy**
 - **National Institute of deserts, flora and fauna**
 - **Agriculture academia and scientific institutions**
 - **Local government authorities**
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Project components

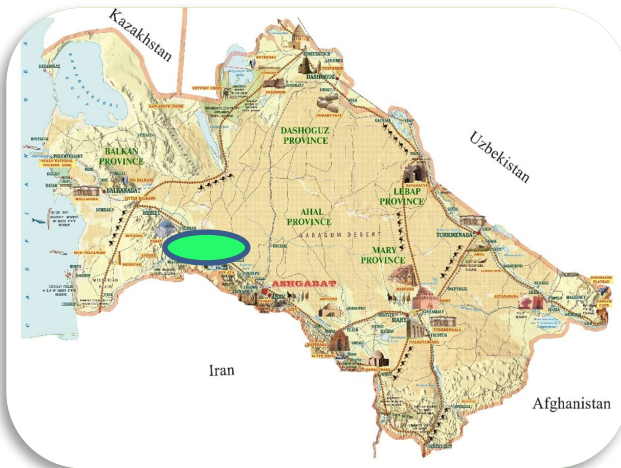
- 1. Multi-country collaboration and partnership to foster the effective delivery of INRM**
 - 2. Integration of resilience into policy, legal and institutional frameworks for INRM**
 - 3. Upscaling of climate-smart agricultural practices in drought prone and salt affected production landscapes**
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Project is implemented in tree agro-ecological zones of Turkmenistan

**Pilot region Nohur
(mountaineous)**

**Pilot region Karakum
(desert)**

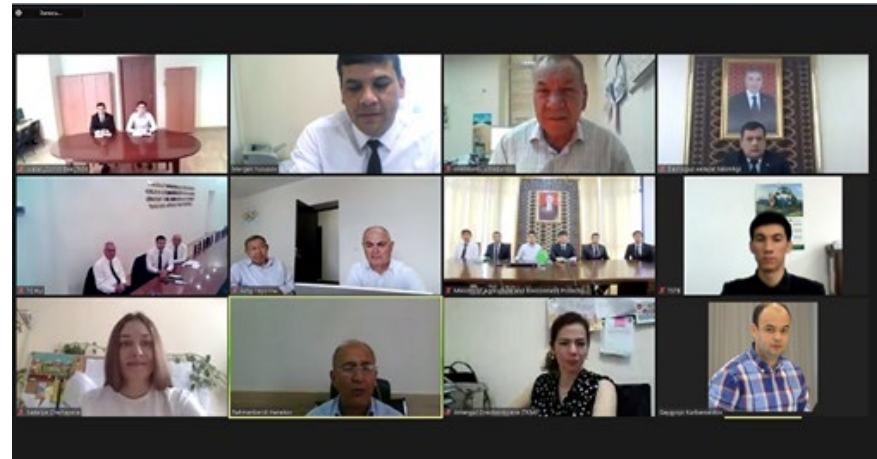
**Pilot region Gurbansoltan
eye (oasis)**



Major project directions/activities

Analytical/expert work (reports, recommendations, etc.)

- ❖ Review and analysis of the legislation and country program documents in the field of sustainable management of land/water resources, pastures, soils, forestry and protected areas (PAs) and preparation of recommendations on inclusion of sustainability factors into these program documents
- ❖ Preparation of the concept and recommendations for the new version of the National Action Plan to Combat Desertification - UNCCD NAP (development of strategies and guidelines in the field of drought management)
- ❖ Baseline review/report on the current status of DRR/EWS/AMS related to climate change in the agriculture sector



Major project directions/activities

Capacity building of national partners

- ❖ Participation of national experts on various online trainings on different FAO instruments (WOCAT, GSP, CBT, salinity management, pasture management, etc.)
- ❖ Organization of national training sessions to enhance the capacity of local specialists to disseminate FAO tools and methods (AquaCrop, FFS, etc.), preparation of materials and arranging series of training courses for farmers
- ❖ Development and publication of various manuals/brochures/booklets on effective INRM and SLM methods and their further replication in various agricultural production landscapes



Major project directions/activities

Field work and scaling up climate-smart agriculture (CSA) practices in drought-prone and saline production landscapes

- **Creation of nurseries at project pilot sites to grow drought and salt resistant fruit, forest and desert species**
- **Reforestation activities in pilot areas of the project**



Field work and scaling up climate-smart agriculture (CSA) practices in drought-prone and saline production landscapes

Using water-saving technologies to scale up efficient water harvesting/water saving technologies

- Establishment of a drip irrigation system in nurseries and other project sites
- Construction/repair of wells, sardobas, dams and reservoirs
- Construction of reenhouses



Field work and scaling up climate-smart agriculture (CSA) practices in drought-prone and saline production landscapes

Scaling up using resource-saving technologies to combat drought and soil salinity

- Procurement of resource-and-saving agriculture equipment
- Measures aimed at combating soil salinization (creation of a demo site, cleaning of the inter-farm drainage collectors, etc.)



Field work and scaling up climate-smart agriculture (CSA) practices in drought-prone and saline production landscapes

Assessment of soil salinity and creation of salinity and drought maps of the pilot areas of the project

- purchase of GIS/mapping equipment
- purchase of a set of equipment for express analysis of soil, water and agricultural plants





Thank you!



Rahmanberdi Hanekov
Rahmanberdi.Hanekov@fao.org
