



# Ensuring Sustainability and Resilience (ENSURE) of Green Landscapes in Mongolia

Session II: Training of Trainers on Carbon Accounting Tools & Field Practices, June 23-27, 2025, Ulaanbaatar

# PROJECT BRIEF INFORMATION



## Project period

7 years (2019-2025)



## Implementation Agency

United Nations Development Program  
Ministry of Environment and Tourism  
Ministry of Food, Agriculture and Light Industry



## Funding resource

Global Environment facility



## Total budget

7,964,253 USD



## Key partners and stakeholders

Local governments, International and other NGOs, Universities, Scientific Institutions, Private sectors and local communities

**Project main goal:**  
to enhance ecosystem services in multiple landscapes of the Khangai mountains and southern Gobi by reducing rangeland and forest degradation and conserving biodiversity through sustainable livelihoods

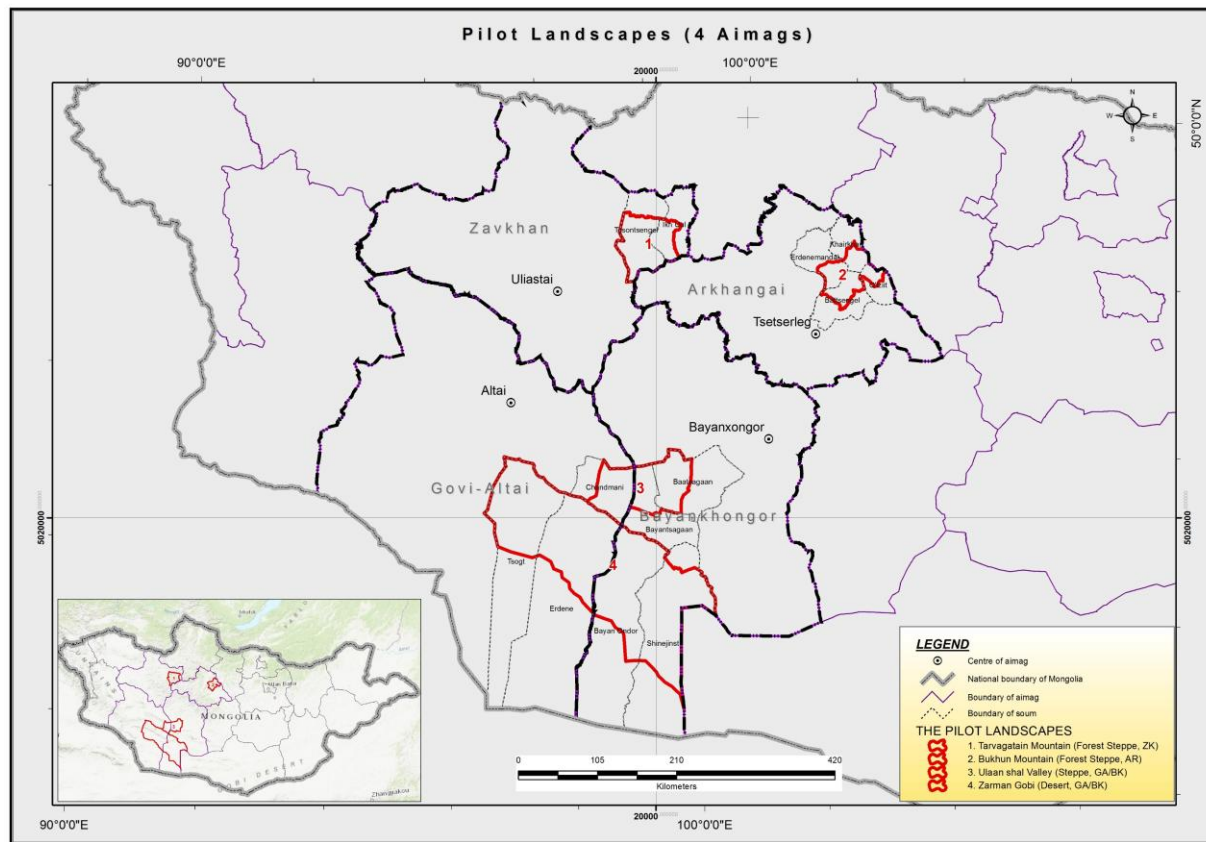
**Outcome 1:** Enhanced enabling framework and systemic tools help conserve biodiversity and ecosystem services

**Outcome 2:** Rangeland, forest and biodiversity are restored and protected areas strengthened at landscape scale

**Outcome 3:** Sustainable livelihoods provide benefits to local communities and support biodiversity

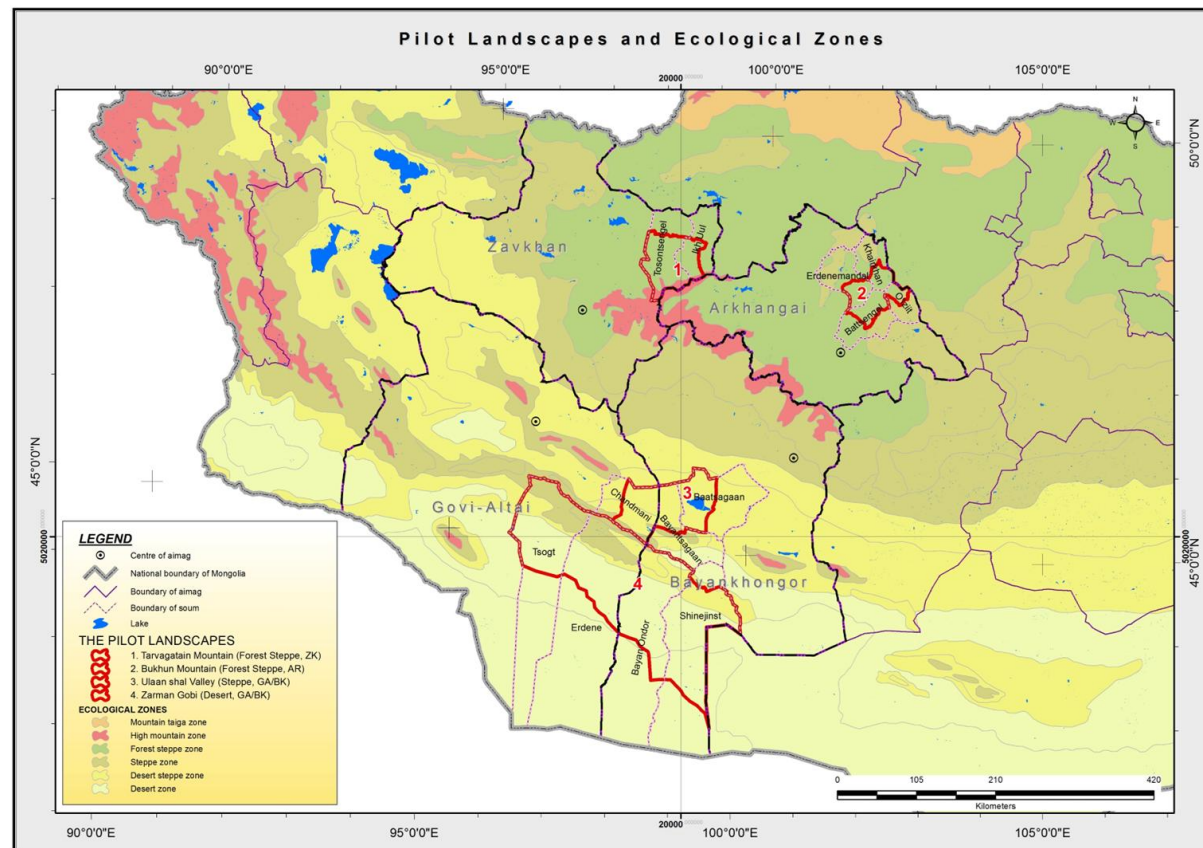
**Outcome 4:** Improves knowledge management, M&E supports sustainability and up-scaling





Source: Land agency (2013), World Topographic Map

Pilot landscape	Aimag	Soum
Tarvagatain Mountain	Zavkhan	Ikh-Uul, Tosontsengel
Bukhun Mountain	Arkhangai	Battsengel, Erdenemandal, Ulziit, Khaikhan
Ulaan shal Valley	Bayankhongor	Baatsagaan, Bayantsagaan, Bayan-
Zarman Gobi	Gobi-Altai	Undur, Shinejinst Chandmani, Erdene, Tsogt



Source: National atlas (2009), Land agency (2014)

Pilot landscape	Eco-region	Total area, ha
Tarvagatain Mountain	Forest-steppe	503,830
Bukhun Mountain	Forest-steppe	371,880
Ulaan shal Valley	Steppe	810,690
Zarman Gobi	Desert-steppe	3,623,480

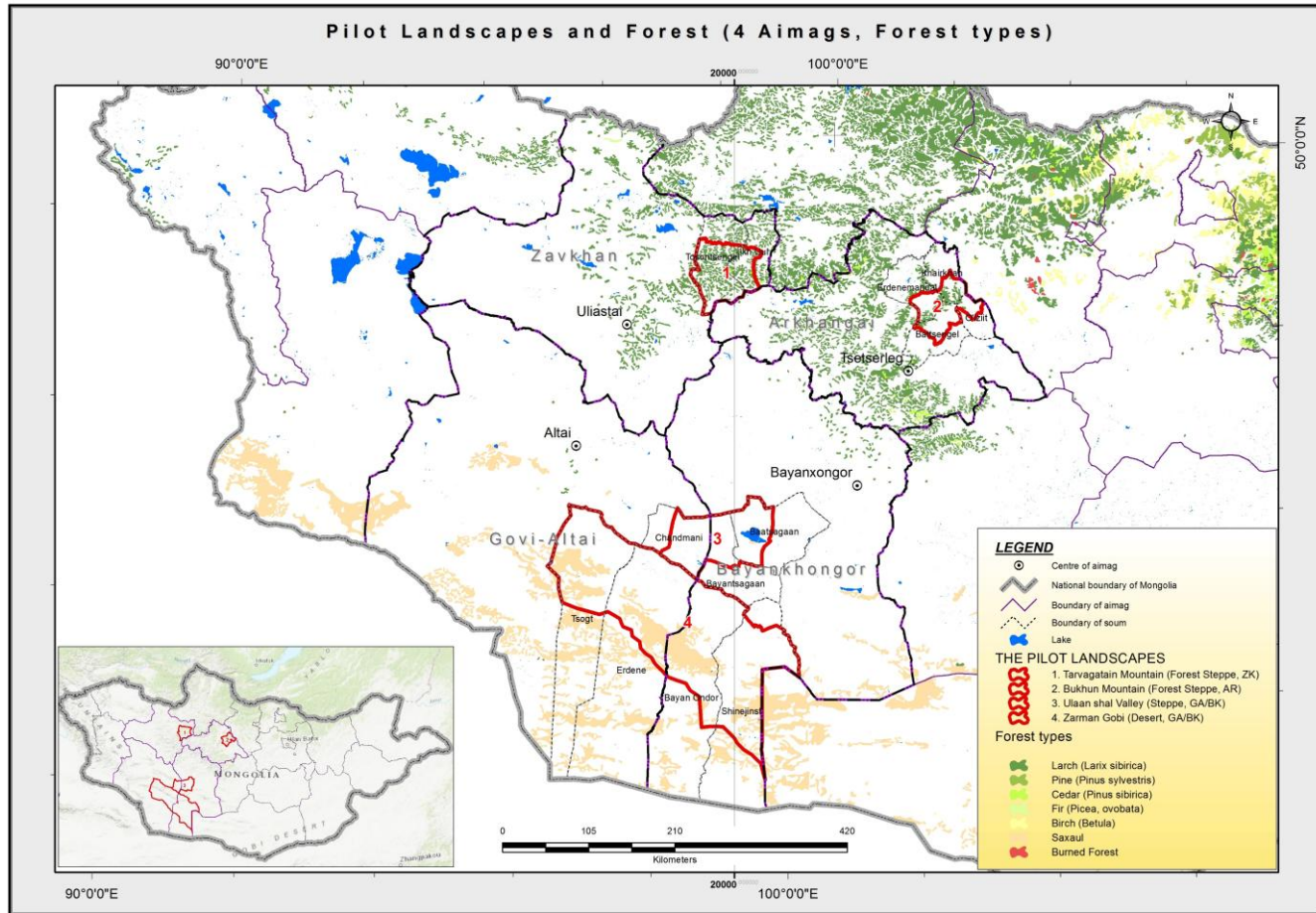
Total project area = 39.5 million ha (Netherlands 4.2 million ha)

# OVERVIEW OF THE PROJECT BENEFICIARIES and KNOWLEDGE SHARING





# BOREAL AND SAXAUL FOREST IN PILOT LANDSCAPES



## Drivers of deforestation and degradation

- Forest Fire
- Pest Damage & Outbreaks
- Illegal Logging
- No major land use changes
- Fuel Wood Use



### Forest area, ha

Tarvagatain Mountain	20,585
Bukhun Mountain	23,004
Ulaan shal Valley	2,950
Zarman Gobi	44,832

# SUSTAINABLE FOREST MANAGEMENT AND RESTORATION

**Outputs:** Sustainable **management and restoration** of boreal (20000 ha) and saxaul (25000 ha) forests operationalized in demonstration landscapes with no net loss and degradation

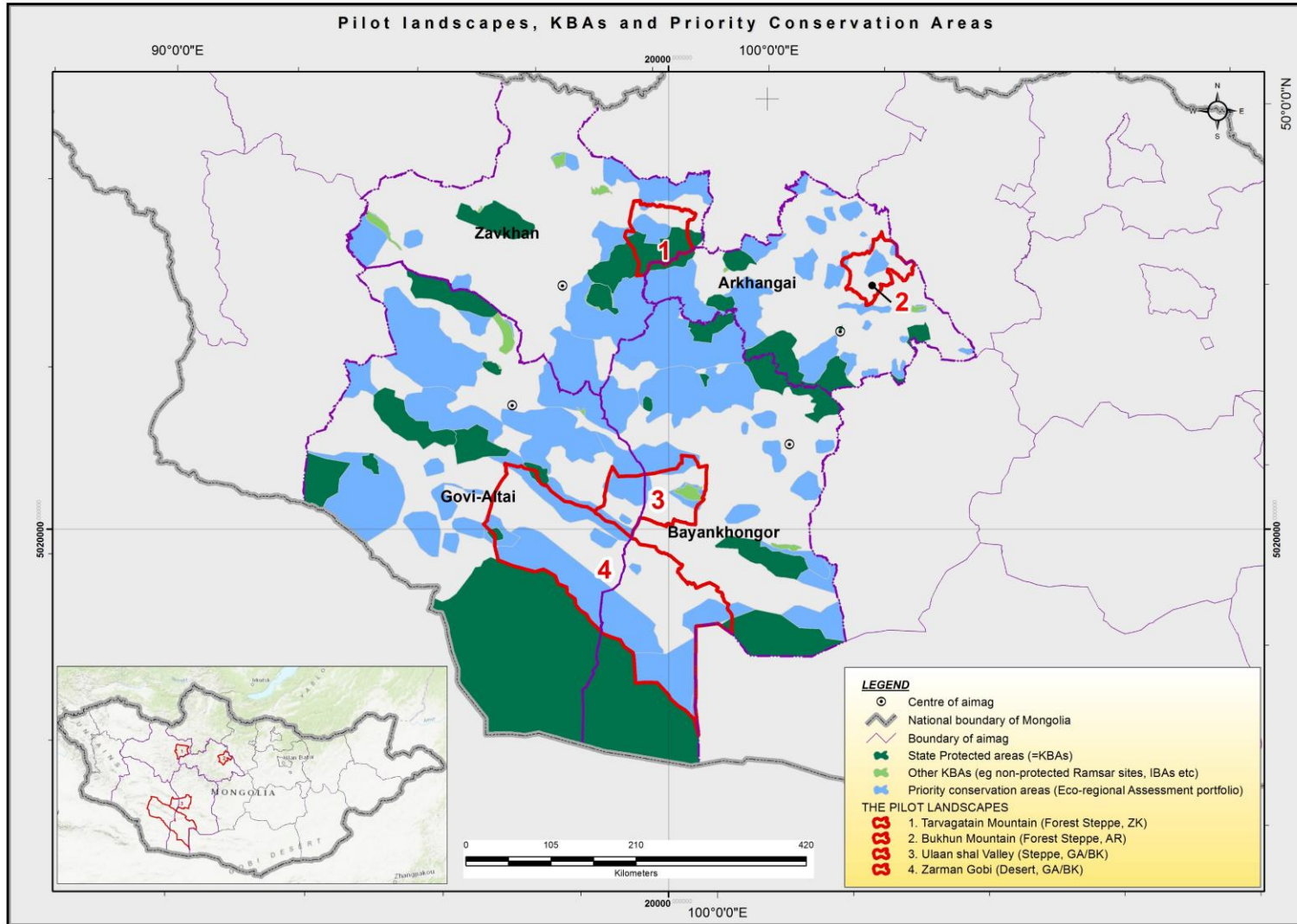
## Key activities:

- Forest management plan developed for **9 forest units** and **15 forest user groups**
- Forest regeneration monitoring: fencing **375 ha of the Saxaul forest**, **40 ha of the boreal forest** area
- **4 tree nurseries** were newly established and equipped.
- **Capacity building on SFM:** Forest technicians of inter soum forest units (ISFUs), and forest user groups (FUGs) are participated in practical and professional training including tree safe climbing, forest thinning, forest cleaning, production, and marketing Bio-charcoal etc.





# BIODIVERSITY AND PROTECTED AREAS IN PILOT LANDSCAPES



## Key species are:

- **Musk deer** *Moschus moschiferus*
- **Red deer** *Cervus elaphus*
- **Black-tailed gazelle** *Gazella subgutturosa*,
- **Snow leopard** *Panthera uncia*
- **Wild sheep** *Ovis darwini*
- **Red thumb** *Cynomorium songaricum*



# BIODIVERSITY CONSERVATION AND PA MANAGEMENT

**Outputs:** The **protected area system expanded** (0,9 million ha) and **strengthened in key biodiversity areas**, particularly in under-represented ecosystems through improved management effectiveness including management and business plans and community participation

**Outputs:** Best practices operationalized for conserving globally threatened/iconic fauna through threat reduction resulting from community-based management and targeted measures

## Key activities:

- A total of **68 springs, wells, and spring sources were protected** to increase the water supply for wildlife. Moreover, 4 engineering wells with solar panels were constructed.
- Reintroduction: 12 individuals of **Musk Deer**, 10 **Red Deer**, over 300 **Marmot**
- **community-based** wildlife monitoring, Volunteer rangers
- Collaring: A total of 12 individuals of black-tailed gazelle, livestock, Argali sheep and Snow leopards were captured and collared with **satellite collars**
- **Master and PhD student grants:** 25 research students were awarded training grants.





# COMMUNITY LIVELIHOODS IMPROVEMENT

**Outputs:** Sustainable livelihoods implemented by PUGs and FUGs that increase family incomes and gender equality, by strengthening the value chain for existing products and diversifying into new livelihoods that benefit biodiversity conservation and ecosystem services

## Key activities:

- Probiotic dairy production and Fruit and berry plantation in collaboration with local governance and communities
- Small grant project: nature-based solutions
- Best practices: Wool shearing and sorting, Lamb fattening, fodder production



## Forest-related indicators and targets

- **Indicator 9.** Area (ha) of saxaul and boreal forests in demonstration landscapes with no net loss or degradation
  - ❖ Saxaul forests: 25,000 ha forest areas in Zarmangiin Gobi and Ulaanshaliin hooloi areas
  - ❖ Boreal forests: 20,000 ha forest areas in Tarvagatain and Bukhen Sharyn Mountains.
- **Indicator 10.** Emissions savings (tCO<sub>2</sub>-eq over next 20 years) from reduced loss and degradation of 45,000 ha of saxaul and boreal forests in demonstration landscapes.
  - ❖ Saxaul forests: total of -3,215 tCO<sub>2</sub>-eq of avoided emissions or increased carbon sequestration over the 20 years.
  - ❖ Boreal forests: total of -3,040,800 tCO<sub>2</sub>-eq of avoided emissions or increased carbon sequestration over the 20 years.



## **Project intervention in forestry (over 20 years)**

- Forest planning and legal enforcement on SFM
- Enabling activities in forest resource conservation and protection
- Capacity building in silviculture practices
- Assisted natural regeneration (fencing of degraded saxaul stands)
- Forest stand treatment through thinning and salvaging
- Tree nursery development and innovation
- Piloting re-forestation activities in degraded forest areas

## **Lessons learnt from the project (in forestry)**

- Promote the capacity and knowledge of local forest staff and FUGs on forestry practice and silviculture
- Strengthen linkage between forest service unit and FUGs on forest management and planning
- Coordinate annual or operational planning of forest activities with local and soum development plans
- Ownership of project output is still a question mark for local government
- The project life period is too short for the enforcement of SFM criteria and indicators



# THANK YOU

## Ensuring Sustainability and Resilience (ENSURE) of Green Landscapes in Mongolia

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