

Appendix 1: Impact matrix of the module

Name of the module

Supporting protected areas to contribute to the conservation of ecosystem services

Country

Mongolia

Project number

2023.2203.0

Duration

03/2024 to 07/2028

Impact matrix created on

29.07.2024 (updated on 11.07.2025)

Objectives	Indicators	Sources and timing of data collection	Assumptions
Module Objective In the landscapes of selected protected areas in Mongolia, reformed, sustainable and gender-sensitive management concepts have been implemented with the support of the local population.	Module Target Indicator 1 3 gender-sensitive implementing ordinances of the revised Act on Protected Area Management have come into force. Baseline: 0 gender-sensitive implementing provisions (The reform of the law on protected area management has not yet been adopted) Actual: 0 Target value: 3 gender-sensitive implementing provisions are in force (07/2026 <i>one</i> implementing regulation, 07/2027 <i>three</i> implementing provisions)	Selected protected areas are: "Khan Khentii" and "Tarvagtai Nuruu", as well as a protected area in the Khovd region in the area of waste management (Output 2) Reformed means: based on/in conformity with the current (11/2023) legal reform on protected area management Supporting the local population means that the proportion of the local population addressed by the park administration as part of awareness-raising measures is in favour of the preservation of the respective protected area. Gender-sensitive means that the texts of the provisions take into account men and women on an equal footing. Possible implementing provisions are: i.) management of forests in restricted use zones of protected areas, ii.) Introduction of protected area ordinances, iii.) Co-management of protected areas, iv.) Self-financing of protected areas, v.) participation of the local	Not applicable, as individual proposal. The program is in preparation.

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		population in the management of protected areas, vi.) evidence-based management approaches, vii.) Area responsibility for management units, viii.) Quality standards of operators in protected areas, ix.) Biodiversity monitoring within protected areas Enacted means: published, announced, trained and implemented in pilot projects. Data collection: Annual evaluation of the Official Journal for the publication of the implementing rules (07/2025, 07/2026, 07/2027) Analysis of the project documentation of training courses on legislative reform with regard to the consideration of all implementing provisions and gender equality (survey 12/2025, 12/2026, 12/2027). Evaluation of the project's own evaluation reports after completion of the pilot projects implemented in the selected protected areas "Khan Khentii" and "Tarvagtai Nuruu" (survey 3 months after the completion of the pilot projects), including documented recommendations for the efficient implementation of the respective implementing regulations (12/2027).	

Objectives	Indicators	Sources and timing of data collection	Assumptions
	Module Target Indicator 2 Timber and non-timber products in a pilot forest in the limited use zone of a protected area were used legally and sustainably by men and women on the basis of 3 use agreements. Underlying asset: 0 User agreements (so far, there are no user agreements regulating legal or sustainable use) Actual: 0 Target value: 3 user agreements (02/2027)	Legal and sustainable use in the sense of the indicator means: The use is based on a resource inventory and sustainable forest use planning, which is documented in a forest management plan as part of the overall plan for the management of protected areas in accordance with the protected area ordinance of the protected area in question. Wood and non-wood products include, for example, logs, firewood, charcoal, pine nuts, berries. Data collection: Measurement of the legality of use: Annual evaluation of the monitoring reports of the National Park Administration with regard to the proper implementation of the use agreements. (2025, 2026, 2027) Measurement of the sustainability of use: Evaluation of the user agreements (3 months after their signing) with regard to sustainability (evidence-based withdrawal quantities) and gender sensitivity based on access rights for men and women (2025, 2026, 2027) Evidence-based means that the respective withdrawal quantities are underpinned / justified by data from research, science and literature.	

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	Module Target Indicator 3 The proportion of parents out of 1,500 children addressed, each represented by one parent, who have taken part in annual parent-child days and who are in favour of the preservation of the respective protected area, increases to 70%. Baseline value: 20% of the parents, i.e. 300 (before participation in parent-child days) Actual value: 20 % of parents Target value: 60% of parents, i.e. 900 (2026, after participation in parent-child days)	Targeted children are children who are members of eco-clubs of all 15 peripheral communities of the two selected protected areas "Khan Khentii" and "Tarvagtai Nuruu". Eco-clubs are school working groups in which children and young people deal with environmental protection issues in their free time under the guidance of a teacher. Parent-child days are organised once a year by the 6 information centres of the 2 protected areas. The baseline value is collected during the first survey of the participating parents of the first Parent-Child Day. Data collection: Annual evaluation of the lists of participants in parent-child days, divided by family, with regard to the participation of parents - conducted by the information centres of the 2 protected areas (2025, 2026, 2027) Evaluation of the annual anonymized survey of the participating parents, with regard to their support for the preservation of the respective protected area (2025, 2026, 2027)	
	Module Target Indicator 4 3,000,000 hectares of forest area is managed sustainably and climate-sensitively. Base value: 894,069 ha	Evaluation of the forest management plans as well as documentation of joint forest inspections by project staff and partners with regard to the extent of	

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	Target value: 3,000,000 ha (6/2028)	sustainably and climate-sensitive managed areas. Sustainable and climate-sensitive management means that the management is carried out in accordance with the approved management plans. This includes introduced use and silviculture techniques such as improved, integrated and climate-relevant forest management in the context of thinning, forest protection and regeneration processes, as well as selective forest inspections by partners and project personnel. (ongoing and 2028) Documentation of management with the help of introduced utilisation and silvicultural techniques in the course of site inspections (ongoing and 2028)	
	Module Target Indicator 5 60 vocational school graduates, 40% of whom are women, from the reformed training programmes in the fields of sustainable agriculture and forestry have been employed in the public sector or private sector. Baseline: 0 vocational school graduates (no vocational school graduates from reformed cooperative training programmes) Target value: 60 vocational school graduates, 40% of whom are women, from reformed cooperative training programmes (06/2028)	Analysis of the enrolment lists of vocational schools, with regard to the number of enrolled vocational students (semi-annually and 2028) and their employment in the public sector or private sector after the completion of the training programme (2028). Training programmes are reformed if: i.) their contents correspond to the actual needs in the country, ii.) concepts of resource-saving, regenerative and sustainable agriculture and forestry are	

Objectives	Indicators	Sources and timing of data collection	Assumptions
	The base and target values of the indicators are provisional. They will be reviewed in the first year of implementation and adjusted if necessary as part of the initial reporting.	integrated into them and iii.) they were developed in cooperation with the private sector	
Output 1 The revised Protected Areas Act has been operationalised by the associated implementing ordinances.	Output indicator 1.1 3 gender-sensitive implementing ordinances for the implementation of the new Protected Areas Act have been submitted to the Minister of the Environment for signature. Baseline: 0 gender-sensitive implementing ordinances (no implementing ordinances for the new Protected Areas Act have been submitted so far) Actual: 0 Target: 3 gender-sensitive implementing regulations (07/2026)	Operationalized: The details of the concrete application of the law and enforcement have been worked out by the administration. Gender-sensitive implementing regulations: see MZI 1. Data collection: Annual evaluation of the minutes of the ministerial working group on "Protected Area Legislation" with regard to the forwarding or submission of the draft implementing regulations to the <i>Ministry of Environment and Tourism (MET)</i> . (2025, 2026)	The government succeeds in passing the legislative reform of the Protected Areas Act by 2024 at the latest. The Minister of the Environment signs the implementing regulations submitted. One of the two identified waste recycling companies in Khovd is willing to take over the management of a landfill on the basis of the concept and business plan drawn up by the project. The vocational education and training reform that has begun will be continued despite possible changes in the management of the MEDS, for example due to new elections. There is an openness on the part of the legislature and the authorities responsible for vocational education and training to involve representatives of business and trade unions in the vocational education and training reform. There are enough trainees applying to the vocational schools.

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	Output indicator 1.2 5 Training courses on the application of the Protected Areas Act and the corresponding implementing regulations were carried out on a pilot basis in 2 provinces (at least 40% of the participants are men and at least 40% are women) Baseline: 0 training courses (no training has been carried out so far) Actual: 0 Target value: 5 training courses in 2 provinces with at least 40% men and women each (02/2027)	Carried out on a pilot basis means: Training courses are carried out with the appropriate pedagogical materials by service providers, accompanied and evaluated by project staff; Recommendations for sensible adjustments are available. 2 provinces: selected together with the partner at the beginning of the project. Data collection: Evaluation of the service providers' reports on the training courses regarding participants two weeks after the respective training (2025, 2026, 2027) Evaluation of the project's annual evaluations with regard to the adaptation recommendations (2025, 2026, 2027)	
	<i>Output indicator 1.3</i> <i>In preparation for COP17, a discussion paper on the economics of pasture land use was prepared within the framework of the "Economics for Rangelands" initiative together with the UNCCD Secretariat and the Economics of Land Degradation (ELD) initiative and presented at an international specialist event (e.g. as part of COP17).</i> <i>Underlying: 0 Discussion Paper</i> <i>Target: 1 Discussion Paper (2026)</i>	<i>Evaluation of the report and the event (2026)</i>	
Output 2	Output indicator 2.1	Agreements include, for example, the use of forests in the limited use zone,	

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The implementation of forest, waste, tourism and co-management in selected protected areas has improved.	3 agreements have been signed between companies (at least 2 under female management) and the park administration/Ministry of the Environment on sustainable management. Underlying: 0 agreements (no agreements signed so far) Actual: 0 Target: 3 agreements (2026)	waste disposal, delegated management of protected areas, tourism activities in the protected areas Data collection: Evaluation of the agreements with regard to the technical quality and sustainability of the agreed management approaches and analysis of the governance structure with regard to the gender criterion mentioned in the indicator (2026)	
	Output indicator 2.2 1 Concept for professional landfill management has been implemented in a buffer zone of a protected area by a municipality in the Khovd region. Base value: 0 concepts (no concept for professional landfill management implemented so far) Actual: 0 Target value: 1 concept (12/2025)	Professional landfill management includes the separation of organic and inorganic waste and ash; recycling of plastic and metal; Self-financing. The concept includes, among other things, determination of the landfill location and the principles of professional landfill management, agreement with a service provider. Implemented in the sense of the indicator means that the service provider has started its work. Data collection: Evaluation of the reports of the service provider's annual report regarding the implementation of the criteria of professional landfill management (12/2026)	
Output 3 An integrated, gender-sensitive approach to environmental	Output indicator 3.1 1 gender-sensitive environmental campaign, which is aimed at relevant stakeholders and	Relevant <i>stakeholders</i> are the general public, political decision-makers,	

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education and communication, tested in 2 selected protected areas, is available at the national level.	shows the effects of overgrazing on biodiversity and protected areas, is carried out in the landscapes of the 2 selected protected areas. Baseline: 0 environmental campaigns (no campaigns have been carried out so far) Actual: 0 Target value: 1 environmental campaign each in landscapes of the 2 protected areas "Khan Khentii" and "Tarvagtai Nuruu" (2026)	children in eco-clubs, visitors to protected areas An integrated, gender-sensitive approach means that coordinated environmental campaigns and activities are aimed at several <i>stakeholders</i>, taking gender equality into account. This means that environmental campaigns are coordinated with the national initiative "<i>My green Mongolia</i>" and other initiatives and are available for implementation. Environmental campaign carried out in landscapes means: concept created, materials produced, implementation over three years, for several <i>stakeholders</i> Data collection: Annual evaluation (2025, 2026, 2027) of the reports of the protected area administrations regarding the implementation and topic of the environmental campaigns with regard to taking into account the effects of overgrazing and on biodiversity (based on the data of the protected area administrations of the two protected areas "Khan Khentii" and "Tarvagtai Nuruu").	
	Output indicator 3.2 Schools or eco-clubs from the 15 municipalities bordering the selected protected areas have participated in 5 gender- and climate-sensitive	Environmental education and communication activities include annual environmental camps, competitions, projects, parent-child days.	

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	environmental education and communication activities coordinated within the "My green Mongolia" initiative. Baseline: 1 gender- and climate-sensitive environmental education and communication activity (pilot through ongoing TC module Support of protected areas as a contribution to the preservation of ecosystem pipelines in Mongolia) Actual: 0 Target value: 5 gender- and climate-sensitive environmental education and communication activities in 15 communities bordering the protected areas (2026)	Gender- and climate-sensitive means that the activities take into account issues of climate change and gender equality. Data collection: Evaluation (04/2024) of the lists of schools and eco-clubs in the neighbouring communities drawn up by the project at the beginning with regard to their involvement in environmental activities (2024) Annual evaluation of the participation lists in environmental communication events (2026)	
Output 4 The forests around the protected areas Khan Khentii and Tarvagatain Nuruu are sustainably valued.	Output indicator 4.1 15 forest management plans with achievable and sustainable felling and reforestation targets have been partially implemented by the state authorities (<i>Aimag or National Forest Agency</i>) Baseline: 0 Forest management plans (no forest management plans with achievable and sustainable logging and afforestation targets available) Target value: 15 forest management plans (6/2028)	Analysis of the implementation of forest management plans with regard to introduced use and silvicultural techniques such as improved, integrated and climate-relevant forest management in the context of thinning, forest protection and regeneration processes. (ongoing and 2028) Documentation of management with the help of introduced utilisation and silvicultural techniques in the course of site inspections (ongoing and 2028). Forest management plans have been partially implemented means that 80% of the annual sub-targets of the plans have been implemented.	

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		Sustainably valued means that forest products harvested in accordance with the management plan are used economically. The felling and afforestation targets are defined in the management plans according to international criteria.	
	Output indicator 4.2 10 <i>Forest User Groups</i> or forest companies, 3 of which are led by women, have each implemented a business plan for forest management (<i>bankable</i>). Baseline: 0 <i>Forest User Groups</i> or Forest Companies (there are no <i>Forest User Groups</i> or Forest Companies with business plans) Target value: 10 <i>forest user groups</i> or forest companies, 3 of which are led by women (6/2028)	Analysis of the business plans of the <i>Forest User Groups</i>/Forest Companies with regard to the implementation of the business plans (6/2028) Analysis of the number of women-led forestry companies (6/2028) <i>Bankable</i> means that the plan complies with Mongolian standards for lending.	
Output 5 The range of market- and practice-oriented training and further education in the agricultural and forestry sector has been expanded.	Output indicator 5.1 2 vocational schools have each introduced 1 reformed cooperative training programme in the agricultural or forestry sector together with representatives of the business community. Base value: 0 vocational schools (the cooperative training programmes have yet to be developed) Target value: 2 vocational schools each with a training programme (6/2028)	Evaluation of the documents on the training programme and consultation of representatives of the private sector with regard to the introduction of the new training programme (2028). Introduced in the sense of the indicator means that vocational schools and companies have included them in their training offerings and that the first trainees have enrolled. The training programmes include further training to reskill the workforce and/or improve the level of	

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		qualifications and/or additional basic training modules to improve the curricula of existing occupations, e.g. farmer, agricultural service specialist, butcher, dairy technologist, textile designer, forester, woodworking mechanic Cooperative in the sense of the indicator means that the training programme reflects the needs of the economy and that the practical and theoretical training is carried out jointly by vocational schools and companies according to the dual approach. The representatives of the business community are members of companies, employers' associations and <i>the Mongolian National Chamber of Commerce and Industry</i> (MNCCI).	
	Output indicator 5.2 10 training agreements between vocational schools and employers have been concluded Baseline: 0 agreements (there are no training agreements so far) Target value: 10 apprenticeship agreements (6/2028)	Annual qualitative and quantitative analysis of the existing training agreements Training agreements within the meaning of the indicator are binding agreements between a company and a vocational school that regulate the training relationship (e.g. factual and temporal structure, start and duration).	

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Outputs	Key activities on outputs	Inputs / Planned Instruments	Assumptions
Output 1	- Technical advice and logistical support for the Ministry of the Environment in the completion of the Protected Area and Forest Act (if not completed in 2023) - Logistical support and technical advice to the relevant working groups (incl. gender experts) for the development of protected area ordinances and, if necessary, for the revision of the Act on the Use of Natural Resources or its improved implementation as well as for 3 ordinances on the revised Vocational Education and Training Act - Technical and technical advice on logistics and moderation of <i>stakeholder</i> participation in the development of protected area regulations - Organising the regional exchange of the participants of the ministerial working groups, financing studies on selected legislative topics (protected area law/forest law), clarifying the responsibilities of the public forest administration and the local government - Training of local staff of selected protected areas on the Protected Areas and Forests Act and the implementing regulations <i>Technical advice on the politics and economics of pasture management of the Ministry of Environment and substantive support for the preparation for the UNCCD COP17 for the preparatory office at the Mongolian Ministry of Foreign Affairs</i>	International LZFK ¹ : 16 FKM ² National LZFK: 145 FKM KZE: 28 FKM Material and equipment: XXX EUR Financing: XXX EUR	As has been customary in the development of the reform of the Protected Area Act, external experts will continue to be consulted at working group meetings of parliament and the ministry (this practice is currently not used in the reform of the Forestry Act). Other non-governmental organizations are interested in the co-management approach. The identified waste recyclers in Khovd are ready to cooperate with the project. Schools in the buffer zones are still interested in cooperation.
Output 2	Identification of the relevant tourism actors in the tourism zones of the protected areas "Khan Khentii" and "Tarvagtai Nuruu" and development of concepts for environmentally friendly tourism (<i>camp management, trail management, waste and sanitation management, quality standards for horse health and riding equipment, tourist guides, gender</i>)	International LZFK: 55 FKM National LZFK: 326 FKM EH: 68 FKM KZE: 42 FKM Material and equipment: XXX EUR	<i>UNCCD COP17 will be hosted by Mongolia in 2026 as planned.</i>

¹ LangZeitFachKraft, Long Term Experts

² FachKraftMonate, Expert Months

	• Technical support for the presence of protected area administrations in social media/adapted approaches for the promotion of ecotourism in protected areas • Based on the new Protected Area Act: Expert advice to the protected area administration on the development of a climate-sensitive pilot management plan for a forest, including the use of non-timber forest products • Technical support for a neighbouring municipality in the integration of a waste management concept for the protected areas in Khovd • Technical advice to strengthen the emerging co-management initiatives in protected areas and the emerging "<i>Mongolia Conservation Trust Fund</i>"	Financing: EUR XXX	
Output 3	• Technical advice to improve the concepts (including the effects of climate change) for the staff of information centres in "Khan Khentii" and "Tarvagtai Nuruu" • Competence development for staff of information centres and protected areas in the field of environmental campaigns • Technical advice and funding of training programmes for the rangers (including volunteer rangers) of the protected areas with a particular focus on forest management, evidence-based management approaches, biodiversity monitoring, gender, environmental education, tourism and waste • Technical advice and financing of gender- and climate-sensitive environmental education programmes (for schools and eco-clubs) in the buffer zones of the protected areas "Khan Khentii" and "Tarvagtai Nuruu" • Supporting the protected area administrations in environmental education media campaigns and public relations work around the protected areas "Khan Khentii" and "Tarvagtai Nuruu"	International LZFK: 12 FKM National LZFK: 156 FKM EH: 10 FKM KZE: 14 FKM Material and equipment: XXX EUR Financing: XXX EUR	
Output 4	• Technical advice to the decentralised state administration (<i>Soums, Aimags</i>) on the integration of forestry aspects into land use plans	International LZFK: 73 FKM National LZFK: 654 FKM	

	• Training and equipping of forest management actors (<i>Forest User Group</i>) (3 <i>aimags</i> / 11 <i>soums</i>) for the implementation of the new legal provisions outside the protected areas • Technical advice to selected <i>forest management units</i>/forest companies on the participatory preparation and implementation (e.g. timber harvesting, preventive measures against forest fires, calamities, regeneration) of forest management plans, including on pilot areas • Technical advice and financial support for selected companies in the further development of forest-related value chains (e.g. birch charcoal, dried and planed woodcuts, wood pellets, briquettes) including the preparation of business plans (<i>bankable</i>) • Advising the decentralised state administration (<i>aimag, soum</i>) on the creation and further development of agroforestry areas (in Javkhlant) including the development of an agroforestry guideline	KZE³: 73 FKM Material and equipment: XXX EUR Financing: XXX EUR	
Output 5	• Updating and developing cooperative training programmes in the agricultural and forestry sector • Development of a practice-oriented <i>training-of-trainer</i> (ToT) program. • Empowering training professionals to implement the ToT program. • Advising public and private companies in vocational education and training (e.g. on the design of curricula, the integration of vocational learning in industrial companies, increasing the practical relevance of teaching). • Development of a gender-sensitive nationwide awareness campaign on work, occupation and training opportunities in agriculture and forestry.	International LZFK: 23 FKM National LZFK: 250 FKM EH: 64 FKM KZE: 80 FKM Material and equipment: XXX EUR Financing: EUR XXX	

³ KurzZeitExperten, Short Term Experts