

#### Country: Moldova

#### PROJECT DOCUMENT

**Project Title:** 

Mainstreaming biodiversity conservation into Moldova's territorial planning policies

and land use practices

UNDAF/CP Outcome(s):

Outcome 3.1 Improved environmental management in significantly increased

compliance with international and regional standards

Expected CPAP Output(s): Output 3.1.1. National institutions are able to apply their regulatory, organizational and technical capacity to mainstream environment and natural resources management into norms, policies, programmes and budgets

UNDP Strategic Plan Outcome: Outcome 2: Citizen expectations for voice, development, the rule of law and accountability are met by stronger systems of democratic governance

**UNDP Strategic Plan Output:** Output 2.5. Legal and regulatory frameworks, policies and institutions enabled to ensure the conservation, sustainable use, and access and benefit sharing of natural resources, biodiversity and ecosystems, in line with international conventions and national legislation

Executing Entity/ Implementing Partner: Ministry of Environment (MoE); Agency Moldsilva; Ministry of Regional Development and Construction (MRDC)

#### **Brief Description**

The Republic of Moldova straddles three main European eco-regions - Central-European mixed forests, Pontic steppe, and East European forest steppe. It is rich in species and agro-forest biodiversity is dominant. Almost 2/3rd of the country is agricultural land. Currently, the protected area (PA) system covers 5.61% of the country's territory; PAs that correspond to the IUCN classification system account for only 1.96% of the country. The system is neither representative of species nor of habitat diversity across the terrestrial biomes, which means that effective biodiversity management outside PAs is crucial to maintaining the ecological integrity of Moldova's ecosystems. Threats to biodiversity include human encroachment through land conversion; soil erosion; pollution; non-native and/ or invasive species; unsustainable grazing; habitat fragmentation because of infrastructure development; illegal logging, collection of rare plants, hunting and fishing; and climate change. Despite the Government's reform efforts, the spatial planning framework continues to be deficient, primarily because biodiversity conservation is not taken into account. The long term solution lies in reforming the manner in which agricultural, forestry and other production activities are planned and regulated across different land units and tenure categories at the landscape scale. The objective of the project is, therefore, to mainstream biodiversity conservation priorities into Moldova's territorial planning policies and land-use practices through two components - the first will focus on modifying the land use planning and enforcement system so that it addresses biodiversity loss, and the second will demonstrate methods for conservation and sustainable use of biodiversity on communal lands outside PAs.

Programme Period:	2013-2017
Atlas Award ID:	00081126
Project ID:	00090554
PIMS #	_5259
Start date:	mid-2015
End Date	end-2018
Management Arrangements	NIM
PAC Meeting Date	

Total resour	ces required	5,808,904
Total alloca	ted resources:	5,808,904
• Regular	r	40,000
<ul> <li>Other:</li> </ul>		
0	GEF	<u>958,904</u>
0	MoE	460,000
0	MoE (In-kind)	100,000
0	Moldsilva	4,200,000
0	Stefan Voda District	<u>30,000</u>
0	Soroca District	20,000

Agreed by (Executing Entity/Implementing Partner):

Date/Month/Year

20/05/2015

Agreed by (UNDP):

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#### LIST OF ACRONYMS

**ACSA** National Agency for Rural Development ALRC Agency for Land Relations and Cadaster **APA** Agricultural Producers' Associations

APR/PIR Annual Project Review/Project Implementation Reports

**ASM** Academy of Sciences of Moldova

**AWP** Annual Work Plan BAU **Business As Usual** BD Biodiversity

**BTOR** Back-to-Office Report **CALM** Congress of Local Authorities Convention on Biological Diversity **CBD** CIS Commonwealth of Independent States

CO Country Office CP Country Programme **CPA** Central Public Authority **CPAP** Country Programme Action Plan **CSO** Civil Society Organization DEP District Environmental Plan DSP District Spatial Plan **Executing Agency** EA

EIA **Environmental Impact Assessment EMM** Ecological Movement of Moldova

**ENA FLEG** Europe & North Asia Forest Law Enforcement and Governance

ENPI FLEG Regional Program "Improving Forest Law Enforcement and Governance in the European **ENPI FLEG** 

Neighbourhood Policy East Countries and Russia"

**ERC Evaluation Resource Center** 

EU European Union

FAO Food and Agriculture Organization **FMP** Forest Management Plan/Planning **FRMI** Forest Research and Management Institute

GD Governmental Decision **GEF** Global Environmental Facility

**GEFSEC** Global Environment Facility Secretariat

**GHG** Greenhouse Gas

GIS Geographic Information System

**GIZ** Deutsche Gesellschaft für Internationale Zusammenarbeit (German Society for International

Cooperation)

**GMP** Grazing Management Plan/Planning

Ha Hectare

HR **Human Resources** ID Identity Document

**IUCN** International Union for Conservation of Nature

Inception Workshop IW LD Land degradation LPA Local Public Authority LUP Land Use Plan

MAFI Ministry of Agriculture and Food Industry MDL Moldovan Leu (currency of Moldova)

MGS Management Grazing System

Ministry of Regional Development and Construction MRDC **MSBMC** Multi-Stakeholder Biodiversity Mainstreaming Committee

MTRI Ministry of Transport and Road Infrastructure National Biodiversity Strategy and Action Plan **NBSAP** 

NEN National Ecological Network

**NEX** Nationally Executed

National Farmers Federation Moldova **NFFM** 

NTFP Non-Timber Forest Product NGO Non-governmental Organization

PA Protected Area

Protected Area System PAS Project Implementation Form PIF

Project Information Management System **PIMS** 

Project Manager PM

Project Management Team **PMT** Project Preparation Grant PPG

Progress Report PR

Quarterly Progress Report **QPR** Regional Coordinating Unit **RCU** Regional Environmental Center REC Rotational Grazing System RGS Regional/Local Public Authorities R/LPAs Standard Basic Assistance Agreement SBAA

State Ecological Inspectorate SEI

Sustainable Environmental Management **SEM** 

Small Grant Program **SGP** Strategic Objective 2 SO2

Scientific and Technical Advisory Group STAP

Terms of References TOR **Total Possible Scores TPS** 

Convention for Biological Diversity **UNCBD** 

United Nations Development Assistance Framework **UNDAF** 

United Nations Development Program UNDP

**United States Dollars** US\$

World Bank WB

World Wildlife Fund WWF

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# 1. SITUATION ANALYSIS

# Ecosystems and biodiversity

The Republic of Moldova is located in the south-eastern part of Europe, situated between Romania and Ukraine. The country occupies a land-locked hilly area (maximum altitude of 430 meters) spanning 3,384,300 hectares. It straddles three main European eco-regions – the Central-European mixed forests, the Pontic steppe, and the East European forest steppe. Almost  $2/3^{rd}$  of the country's territory is agricultural land. Approximately 15% of the country remains under some form of natural vegetation cover, much of this in a degraded state. The majority of this natural vegetation cover comprises forest ecosystems. Natural steppe habitats are almost non-existent and are nowadays used as pastureland. They occur predominantly in the north and the south of the country, and account altogether for about 65,000 hectares (approximately 1.9% of the territory). Meadow ecosystems, with rich genetic and species diversity, continue to be used for livestock grazing, and occupy about 10% of the country. Vegetation communities associated with aquatic ecosystems – notably flooded areas in the lower reaches of the Prut and Dniester Rivers – cover about 94,600 hectares (approximately 2.8% of the country). Some 3,000 rivers and streams, and 60 natural lakes are distributed across the country, with more than 95% of the water circulation flowing into one of the two major rivers in Moldova – the Prut or Dniester.

Moldova is rich in species, and agro-forest biodiversity is dominant. The country hosts 1,842 species of vascular plants and nearly 4,600 species of lower plants and fungi. This includes 13 relict genera, 126 Red Data Book species<sup>1</sup>, and 4 species at the boundary of their natural distribution. Plant species diversity is particularly high in forests (more than 850 species), meadows (about 650 species) and steppe remnants (more than 600 species). There are about 16,540 species of animals (461 vertebrates and more than 16,000 invertebrates) reported for Moldova. This includes 55 Ponto-Caspian relict species (of which 10% are endemic to the Black Sea basin) and 116 Red Data Book species<sup>2</sup>. A number of large faunal species have completely disappeared from Moldova over the last centuries. While the greatest diversity of vertebrates is recorded in forests (172 species), 153 (89%) of these species are recorded from forests associated with meadows. The river corridors and associated wetlands are particularly important for migratory birds.

Forests are the most rich in terms of biodiversity in Moldova. Communities of herbaceous plants under forest canopy are significantly determined by levels of shading, and vary from 79 to 206 species; forest glades and edges support about 800 species, mostly the ones characteristic for steppes and meadows. About 500 plant species are typical for forest habitats, 172 of them are rare and 103 species are under state protection. Forest ecosystems support about 40 relict plant species. There are many threatened insect species, including 4 listed as Vulnerable Globally (according to the IUCN Red List Categories and criteria), for example *Cerambyx cerdo*. Forest habitats support almost all amphibian and reptile species of Moldova; create conditions for many bat species and majority of mammals, many of which are included in the Bern Convention<sup>3</sup> and Habitat Directive lists of the European Union.

<u>Steppes</u> that historically covered nearly 60% of the country but now only cover 1.9% of the country's territory are the worst conserved ecosystems in Moldova; remnants of primary steppes are small, fragmented and used for grazing. Existing steppe patches support more than 420 typical steppe plant species, 126 of them threatened, and two with very narrow distribution. The probability of extinction of typical steppe insect fauna is high; 16 species inhabiting steppe biotype are threatened including

<sup>&</sup>lt;sup>1</sup> Two of these are also included in the Red Data Book of European Bryophytes.

<sup>&</sup>lt;sup>2</sup> Thirteen of these are also included in the European Red List (1991).

<sup>&</sup>lt;sup>3</sup> The Bern Convention is a binding international legal instrument in the field of nature conservation, which covers most of the natural heritage of the European continent and extends to some States of Africa. Its aims are to conserve wild flora and fauna and their natural habitats and to promote European co-operation in that field. The Convention places a particular importance on the need to protect endangered natural habitats and endangered vulnerable species, including migratory species.

Onconotus servillei and Saga pedo, while only 5 species are nationally protected. Steppes provide habitats for some rare vertebrates, such as Meadow Viper (Vipera ursini), European Ground Squirrel (Spermophilus citellus), Speckled Ground Squirrel (Spermophilus suslicus), Steppe Polecat (Mustela eversmani), etc. Many predatory birds nest in forestlands but forage in steppe or other open areas.

Meadows (10% of the country's territory) support 269 plant species that are typical for these ecosystems. 52 species present in the meadows ecosystems are threatened while 29 of them are under national protection. Also present in meadows are a few specific rare invertebrate species, such as Large Copper Butterfly (Lycaena dispar). Many amphibians listed in the annexes of the Bern Convention inhabit meadows; protected mammals hunt or live here such as the European hamster (Cricetus cricetus). Some birds nest in meadows, like Corn Crake (Crex crex), and a great number of species forage there such as the Greater Spotted Eagle (Aquila clanga), Short-eared Owl (Asio flammeus), Black Stork (Ciconia nigra), and Glossy Ibis (Plegadis falcinellus).

Aquatic/wetland ecosystems provide habitats for aquatic plant species such as *Trapa natans* and *Salvinia natans*, which are listed in the Bern Convention, and are still found in natural wetlands in southern Moldova. Wetlands support noteworthy concentrations of invertebrate species. Some mammal species, such as European Otter (*Lutra lutra*) and Eurasian Water Shrew (*Neomys fodiens*) or European Mink (*Mustela letreola*), can still be found in wetlands.

# Protected Areas System (PAS)

Currently, the PAS in Moldova covers 189,385.9 hectares (or 5.61% of the country's territory). A third of it is managed by the government agency Moldsilva, and the rest is mostly located on community or private lands. Protected areas (PAs) outside Moldsilva's management have almost no effective protection (covered by law, but no management undertaken). PAs that correspond to the IUCN classification system account for only 66,048 hectares (or 1.96% of the country)<sup>4</sup>. Generally, the PAS is neither representative of species nor of habitat diversity across the terrestrial biomes, which means that effective biodiversity management outside PAs is crucial to maintaining the ecological integrity of Moldova's ecosystems and ensuring that their biodiversity is rationally conserved.

The aforementioned representation of biodiversity requires a landscape approach to biodiversity conservation including areas within and beyond the boundaries of PAs, to manage a mosaic of land and resource uses through protection, restoration, and mainstreaming biodiversity management into production and sustainable use, in order to deliver ecological, economic and social benefits. All areas in the PAS (including private sector that is already part of the PAS) need to have management plans and the land owners need to be part of compensation schemes in order to ensure species/habitat conservation.

# Biodiversity and the main sectors

# Agriculture

Agricultural land currently occupies about 74% of the total area of Moldova; land conversion and agricultural practices result in significant threats to biodiversity. The country's heavy reliance on agriculture continues to be a major threat to the integrity of the few remaining tracts of natural ecosystems. Many species have reduced their populations and some of them have disappeared completely. Former native steppe and meadows have been converted to arable farmland and, their small remnants are subject to uncontrolled livestock grazing. Degradation is easily traced by the continuous decline of the proportion of indicator grass species in the overall vegetation cover, reduced presence of leguminous species, and substantial loss of vegetation (up to 70% in certain areas). Most of these areas are already invaded by invasive non-native shrubby/tree species (e.g. Elaeagnus angustifolia, Acer negundo, Robinia pseudoacacia) or, by native shrubby species that are locally invasive (e.g. Rosa canina,

<sup>&</sup>lt;sup>4</sup> A number of PA categories namely, Geological, Paleontological, and Hydrological Nature Monuments, have limited biodiversity significance.

Crataegus spp.). Dry steppes, which preserve some rare and indicator taxa (e.g., several species of the genus Stipa), are under severe pressure from unregulated livestock grazing (mostly small and big cattle of households), and lack of sustainable management (e.g., hay-making, which in some locations is necessary for the maintenance of rare grass species, as part of a rotational system of controlled grazing).

Overall, steppes are assessed to be at a stage where the reduction of pressures and regulated management could still reverse the degradation trend (i.e. moderately degraded); yet, every year chances for this are declining. Soil erosion due to poor farming practices and improper grazing is a considerable problem, with both direct and indirect adverse impacts on biodiversity. The lack of rotational grazing and unknown carrying capacity for sheep, goats, and cattle reduces soil cover, while animals trample stream banks adding to the problem. Although wet meadows are not readily plowed and converted to cropland, compared with the steppe habitats, most wet meadow ecosystems are being drained for subsequent arable farming, or "improved" as pasture lands (e.g., seeding with non-native species that are preferred as forage). This is the main threat to Corn Crake (*Crex crex*). Wetlands (the largest ones are in the lower parts of the two main rivers) and other wet meadows harbor immense biodiversity. However, these have been drained for agriculture and are now severely degraded, having been mowed and grazed intensively for decades, while others continue to make way for farmland. The excessive use of pesticides and fertilizers in the agriculture sector, coupled with the increased sediments in water due to soil erosion, have detrimental effects on aquatic ecosystems and biodiversity. As pastures are degrading, local people are increasingly letting their animals enter into forests for grazing.

Grazing is a big issue for the country, especially in seasons when rain/water is missing. It has an impact on both the land per se and biodiversity. When the quality of pasturelands worsens because of climatic or other conditions, grazing happens in forests and/or protected areas, then it becomes illegal and unsustainable. Communities have to be offered alternative ways for grazing. Enforcement of legislation is still a problem as no alternative measures are proposed by authorities, so communities are mostly left on their own.

# Forestry

Forests of Moldova are the best preserved ecosystems out of all ecosystems and have the greatest biological diversity in the country. They are located predominantly in the central part of the country, with northern and the southern areas being less forested. According to data from the National Bureau of Statistics, in 2013, forestlands occupied 450 thousand ha, of which 363 thousand ha are forests managed by Agency Moldsilva. Forest coverage (or forest vegetation cover) thus stands at 13.7%. However, the area covered with true forest is less than these figures. Having been severely depleted in the past, the remaining natural forests are largely the result of stump or root sprouts (approximately 60% according to official data) and considered to be of poor quality and less stable than forests regenerated from seeds. There are no primary forests left in Moldova. As an example, 80% of standing oak forests is of coppice origin. Moldova's forest areas are highly fragmented with sizes ranging between 5 to 1,500 hectares.

Historic unsustainable forest management has contributed to the current state of Moldova's forests<sup>5</sup>. This includes selective harvesting/ extraction of the most valuable species without proper management of their regeneration, with attendant impact on structure and species composition, and afforestation and reforestation with species inappropriate to the site conditions as well as high consumption of domestic wood for primary energy and household needs.

In order to alleviate soil degradation and meet the high demand for fuelwood, forest institutions have undertaken forest extension relying on non-native species, so the Black Locust (*Robinia pseudoacacia*) has almost been naturalized and become a dominant component in almost 40% of Moldovan forest vegetation. Some other exotic species, like Box Elder (*Acer negundo*), have not been applied in

<sup>&</sup>lt;sup>5</sup> Expansion of the agricultural production sector and infrastructure development are also important contributing forces.

regeneration/ extension, but have become very aggressive invasive tree species by substituting native species locally.

Extraction of large trees and undesirable forest treatments during a certain period, combined with extensive degradation of surrounding open areas (meadows, steppes) that serve as food niches, are factors that have caused some threatened species, like the Greater Spotted Eagle (Aquila clanga) and Saker Falcon (Falco cherrug), to abandon nesting sites when disturbed. Even though the forest nesting sites of these birds-of-prey remain safe in some areas, the grassland and meadows around the forests – their feeding grounds – often get plowed, forcing the adult birds to relocate.

# Infrastructure/ urban development and recreation

Moldova is a country of high population density (121.9/km²). Nearly 74% of its area is agricultural land, and almost 90% of it is either somewhat formally privatized or under collective forms of farming (collections of landowner lots under joint-stock societies). The overall landscape is thus a mosaic of private or collective areas or of other types of infrastructure and very few lands are left where natural biodiversity can persist. The density of human settlements is also high (5 villages/ communities per 100 km²) distributed evenly across the country, and large urban settlements prevail.

The Law on Principles of Urbanism and Land Planning (number 835 from 17.05.1996, with subsequent amendments) clearly states that any land planning needs to create a framework for balanced development and rational utilization of the land, including responsible use towards natural resources and environmental protection. This is also supported by the Law on Regional Development (Governmental Decision nr. 438 from 28.12.2006), the Concept of Sustainable Developments of Localities (GD nr. 1491 from 28.12.2001) and the Law on Provisioning Localities and Areas with Urban and Planning Documentation (GD nr. 1362 from 10.12.2001).

However, biodiversity conservation principles are poorly integrated in land planning (including at the legal/ normative level), and species/ habitat distribution and importance are almost completely neglected. Construction of new infrastructure and extension of settlements prevail over conservation and sustainable use of natural resources.

Examples of severe impacts on aquatic ecosystems include draining of wetlands (and surrounding meadows), elimination of native riparian vegetation, and impoundment and channeling of streams. Sedimentation and chemical runoff associated with urban development and unregulated recreation have negatively impacted streams, rivers, and wetlands. As a result, such species as Corn Crake (*Crex crex*) and Spotted Crake (*Porzana porzana*) have become rare in wetlands. The nesting grounds of Ferruginous Duck (*Aythya nyroca*) and Pygmy Cormorant (*Phalacrocorax pygmaeus*) have been severely damaged. Also, the habitat of the European Mink (*Mustela lutreola*) and European Otter (*Lutra lutra*) and many other species associated with wet areas along smaller lake banks, has been destroyed through unsustainable fishing and recreation, as well as unregulated use of lakes as a source of water.

#### Direct threats to biodiversity

Threats to biodiversity continue unabated. This is partly due to poverty-driven subsistence needs of the population (coupled with commercially-driven resource needs as well) and, partly, due to the general perception of biodiversity among ordinary citizens that is not in favor of biodiversity. These factors lead to various unsustainable approaches and practices at various levels (such as policy, educational, institutional, legal, traditions, etc.).

# Human encroachment through land conversion

Even though about half of the country's exports consist of agricultural products, Moldova still lacks a rational approach to sustainable use of existing arable lands. Most agricultural land is now privatized and, in many cases, people hold small plots of land, making a rationalized approach challenging (according to various sources, around 200,000 hectares of agricultural lands are abandoned). Encroachment is evident

in all habitats and through various schemes (e.g., long-term forest lease, need for new pasturelands, new areas for waste dumping, etc.). Communities do not fully realize the possible consequences of such practices, and more habitats are destroyed, altered, or fragmented leading to biodiversity loss.

#### Soil erosion

According to official data, some 800,000 ha are degraded agricultural land and some 100,000 ha are heavily eroded. There is also a prediction of annual losses of fertile soil due to erosion across the country. This is already affecting biodiversity and will likely strongly affect it in the near future. Based on various analyses, unsustainable use of natural resources (e.g. forests, pasturelands) will lead to a significant reduction in biodiversity and further increase in deforestation, which in turn will lead to further land degradation and erosion. The Government has, however, undertaken some measures to cooperate with international organizations to arrest erosion through afforestation and reforestation programs (by creating shelterbelts of other forested areas to mitigate the effects of wind and rainwater on soil), pastureland management, enhanced agricultural land productivity, and rehabilitation of certain areas.

#### **Pollution**

There are various sources of pollution, with municipal and industrial wastes affecting species and habitats directly. Siltation of waterways and wetlands (especially lakes) has reduced the area of wetlands and their potential to provide fish and other goods for local communities. Unauthorized dumping of waste poses a high risk not only to human health but also to ecosystems.

# Exotic (non-native) and/ or invasive species

Although there is no complete list of exotic (non-native) species in Moldova, such species are present in the country, and many will probably be introduced. Many exotic species, along with some native species, have become invasive (e.g. aggressive shrubs/ trees, crop pests) producing colossal economic damage to agriculture and forestry. The introduced but invasive Black Locust (*Robinia pseudoacacia*) is largely used for forest extension in degraded lands, and also by some private forest owners. It is largely preferred by the local population as a fuelwood and for other household needs, which is a good example of the use of an invasive species (though the species itself can cause problems in natural habitats). Some introduced species have been reported as interbreeding with native species causing genetic pollution of native species (e.g. non-native Sika deer, *Cervus nippon*).

#### Unsustainable grazing

Currently, most cattle in Moldova belong to communities. Although communities have pasturelands, which are mostly depleted and of poor quality (low productivity), the herds are often moved into other habitats, such as forests (according to existing legislation, grazing in forests is not allowed). Generally, grazing is almost uncontrolled and against all principles of environmental sustainability. Pastures are often sensitive issue for communities and their management represents a true challenge.

### Habitat fragmentation because of infrastructure development

Moldova's landscape includes roads, railroads or other infrastructure, which fragment the landscape. A railroad built recently through the wetlands of the Lower Prut River (also a Ramsar Site) has severely impacted not only the ecosystems and their biodiversity, but also local communities dependent on wetlands. The recent practice of granting forest leases for hunting and recreation has led to forest damage as those who lease forests build houses and other infrastructure, even though this is not endorsed by lease contracts. Overall, habitat/ ecosystem integrity is not taken into consideration in land or infrastructure planning.

# Illegal logging

Forest biodiversity is under increasing pressure from illegal logging, mainly to meet demands for fuelwood and/ or selective logging of high-quality trees. Official statistics report that approximately 0.5 million m³ of wood are legally harvested per year, and there are only small volumes of illegally harvested

wood. However, analysis from ENPI FLEG Regional program has shown that the true annual consumption of domestic wood is twice that figure. Authorities have already responded by reforesting degraded lands and introducing short rotation high yielding forest energy crops (mainly black locust).

# Illegal collection of rare plants

Many species of plants are widely collected by local communities. Despite the fact that some of these plants are protected, people are collecting them in the forests and meadows for sale either along the roads near forests or in city/ town markets or directly in streets. Many rare species, such as snowdrops of the genus *Galanthus* and Lilly of the valley *Convallaria majalis*, are collected by locals every spring.

### Illegal hunting and fishing

Though Moldova is not that rich in game, hunting is a traditional occupation of a number of people. People have the right to hunt and fish during certain periods, however, neither hunting nor fishing is done sustainably. There is a huge contradiction between existing law/ regulation and its enforcement/ implementation. Illegal hunting and fishing (for sport or by poachers) is still common in the country, despite the fact that some local communities (especially in the wetland areas) are dependent on fishing and/ or hunting. Also, wildlife management is not properly undertaken.

#### Climate change

Moldova is confronting more and more unstable weather conditions, and droughts and floods have become common over the last decades. At the same time, there is a low resilience of the natural habitats (and of agricultural land) to the increasing incidence of extreme weather conditions. More environmental problems in the country are reported, such as landslides, land erosion, forests/ trees dying, spread of pests/ diseases, invasions of plants and animals over agricultural lands etc. Climate change may result in deterioration of some ecosystems (namely forests) in some parts of the country with many species exhibiting reduced capacity to reproduce and increased susceptibility to other factors.

# Baseline scenario and associated baseline projects

# Biodiversity and land use regulations, planning and enforcement

Moldova has three levels of government administration: national, rayon (district), and municipal (which includes urban localities or towns and rural localities or communities). Some powers and functions are exclusive to one government level, while others are shared. The regulation of land use and biodiversity conservation/ use is largely a national competency, while land use planning is shared among the three levels of government. Enforcement of biodiversity conservation and land use regulations is largely a rayon and municipal competency.

Biodiversity/Land use regulations: Under the subordination of the Government, the main institutions responsible for biodiversity/ land use regulation are the Ministry of Environment (MoE), Ministry of Agriculture and Food Industry (MAFI), and Moldsilva. MoE is the central national environmental authority that exercises quality monitoring of environmental components and regulates use of natural resources. The MoE's duties include: (i) to develop and promote policies and strategies in the field of environmental protection, rational use of natural resources, and biodiversity conservation; (ii) to integrate environmental policies in the socio-economic processes and in sections of sectoral policies based on principles of sustainable development and harmonization of legal and normative acts, plans, programs, conventions and international treaties; (iii) to carry out inventory of natural resources, regulate their use, establish limits of use on natural resources as well as discharges and pollution with hazardous environmental substances. The Ministry of Agriculture and Food Industry (MAFI) is the central national authority for the promotion of state policy in the field of agriculture and food industry. Their duties include: (i) stimulate and monitor the use of sustainable and efficient farming systems, based on maintaining and enhancing soil fertility, and of systems aimed at maintaining ecological balance and recovery of water reserves, (ii) harmonize legislation on agriculture and food industry according to EU requirements. Moldsilva is the central public authority responsible for forestry and hunting. Its duty is to

implement the constitutional national prerogatives and international ratified obligations on development, promotion and implementation of its policy in forestry and hunting, guided by international trends in socio-economic sustainable development, rural development, rural employment, sustainable forestry development, guarding forests and wildlife protection, maintenance and conservation of biodiversity, professional training, access to environmental benefits and forestry research and education.

Land use planning: The Ministry of Regional Development and Construction (MRDC) is responsible for developing state policy and legislative and regulatory framework for land use planning, architecture, urbanism, construction, production of construction materials, housing, and regional development. MRDC has developed a National Physical (Spatial) Plan, which was approved by Parliament in 2008. The plan serves exclusively as a guideline, and is composed of correlated sections representing government programs in different fields for the entire country. It outlines, at a large-scale, urban and rural infrastructure placement trends and land parceling. District and Municipal Spatial Plans (Master Plans) are initiated by a decision of the rayon or municipal council and developed by a contracted licensed design company. The district or municipal plans are approved by the interested central agencies and MRDC, and they are adopted by the district council and municipal council respectively. In 2011, MoE finalized amendments to Environmental Impact Assessment (EIA) legislation obligating large new investment projects on land to undertake full surveys of biodiversity, identify threatened species and habitats, and identify measures to exclude adverse impacts. The Agency for Land Relations and Cadastre (ALRC) is coordinating state activities related to surveying, mapping, Cadastre and GIS. ALRC is also responsible for the establishment and maintenance of the national geo-spatial data infrastructure in the country (www.geoportal.md).

<u>Enforcement:</u> Under the MoE, the State Ecological Inspectorate (SEI) operates at the district level to enforce environmental legislation while the Local Public Authorities (LPAs) and Municipalities are responsible for enforcement of biodiversity related legislation at a local level, as well as for enforcement of land use plans (where they exist). Moldsilva is responsible for the enforcement of forestry regulations on forest land under their jurisdiction.

Baseline programs for conserving biodiversity outside PAs

The country's commitment to biodiversity conservation outside PAs is reflected in the planned investment of at least US\$ 27.4 million in biodiversity conservation across its landscape over the project period. This can loosely be divided into four areas: investments related to (i) regulation of land use, (ii) planning of land use, (iii) enforcement, and (iv) changing the production practices of sectors driving biodiversity loss.

#### Biodiversity/land use regulation

At the national level, MoE will invest in excess of US\$ 0.3 million over the project period for policy and regulation development and compliance monitoring role. This will include the development of national environmental standards, specifications and guidelines, and the undertaking of EIAs. The Ministry of Agriculture and Food Industry will spend US\$ 0.5 million in regulating ecological agriculture<sup>6</sup> over the project period. Moldova has experienced a significant increase in ecologically farmed land from 80 hectares in 2003, to more than 70,000 hectares in 2012.

At the district level, the two target districts of the Republic of Moldova will invest at least US\$ 0.2 million over the project period in regulation, mainly through compliance monitoring by State Ecological Inspectors.

Land use planning

<sup>&</sup>lt;sup>6</sup> Ecological agriculture is a kind of sustainable agriculture that involves completely avoiding synthetically produced mineral fertilizers and pesticides, hormones, food additives etc. Genetically modified organisms are completely prohibited. (http://www.euracadagri.com/eng/activities/yalta\_doc\_md.php)

At the national level, an estimated US\$ 1.7 million will be spent over the project period by MRDC and the Agency for Land Relations and Cadaster on the preparation and review of urban plans in the country. The MoE, MAFI, and Moldsilva will invest in excess of US\$ 8.5 million over the project period on spatial planning, forest management planning, and farm management plans. Part of this investment comes from the National Program for Creation of the National Ecological Network (2011 – 2018), and Transition to High Value Agriculture Project financed by the U.S. Millennium Challenge Corporation (2010 – 2015). The main objective of these programs is to set up a legal framework for inter-sectoral coordination in order to reduce the pressure from economic activities on the environment and human health and to support environmental restoration. MoE will also invest an estimated US\$ 0.7 million over the project period on review of ElAs for large development projects. A tentative estimate of US\$ 0.5 million investment will be made by the private sector in undertaking ElAs for development projects in the target districts.

At the municipal level, Local Public Authorities in the two targeted district will invest US\$ 0.5 million over the project period on spatial plans, urban plans and forest and farm management plans.

#### Enforcement

The two districts will invest approximately US\$ 0.4 million on environmental enforcement, in particular on applying the legislation concerning biodiversity conservation and local environmental protection plans. Additionally, the Local Public Authorities will spend an estimated US\$ 0.2 million on enforcement. Moldsilva will spend an estimated US\$ 2 million a year (US\$ 8 million over the project period) for the enforcement of forestry legislation nationally.

Modifying production practices to be more biodiversity-friendly

In the forestry sector, an estimated US\$ 4 million will be invested by Moldsilva in improving forest management and maintaining/guarding the forestlands, specifically targeting reforestation/afforestation predominantly with native species in the two districts. In the agriculture sector, an estimated US\$ 1.3 million over the project period is earmarked for increased soil protection and agriculture production enhancement, conservation farming and building capacity for better land management under the national Program for Land Conservation and Fertility Enhancement implemented by MAFI. An estimated US\$ 0.5 million of this investment can be considered as baseline for the proposed project as reduced soil sediments and chemical runoff will have a beneficial effect on aquatic biodiversity. An estimated investment of US\$ 0.1 million will be made by the private sector in the management of biodiversity on communal and private agricultural lands.

The five baseline strategic programs of the government that pertain to the use and conservation/ management of natural resources are summarized in the table below. All these together serve as the foundation for the project, also highlighting the baseline on which project activities will be built. In order to facilitate dialogue and ensure coordination with baseline projects/ programs of the targeted sectors, the project will establish a Multi Stakeholder Biodiversity Mainstreaming Committee under Output 1.3. This committee will bring together authorities tasked with natural resource and land use planning and permitting responsibilities – namely, Ministry of Environment, Ministry of Regional Development and Construction, Agency Moldsilva, Agency for Land Relations and Cadastre, Academy of Sciences, District Council of Soroca, District Council of Stefan Voda) – at a national scale.

Title, description, implementing agency, total value (USS)	Eliments of the accommon which is
of the baseline program	Elements of the program which form part of the baseline project for GEF, and problems they address
Environment Strategy for 2014 - 2023 (adopted by Governmental Decision nr. 301 from 24.04.2014)  The vision is to create a functional system (institutional, administrative, management) adjusted to EU policy and to ensure a sustainable environment. It aims at guaranteeing the right for Moldovan people to a clean and healthy environment.  Total budget for its implementation is US\$66,033,900 annually (1% of annual GDP).  The costs are in line with provisions included in the EU-Moldova Association Agreement and the Deep and Comprehensive Free Trade Area (DCFTA).	Baseline element 1: Certain activities fit well into EU goals and will be covered by the EU costs.  Afforestation/ reforestation activities will take place on degraded lands through creating forest shelterbelts, and other green areas covered with forest vegetation.  Pastures are mostly managed by LPAs and totally lack management, they are overloaded and almost degraded. Only 5% of such still maintain high biological value, while 70% have lost their capacity for self-rehabilitation. In addition, approximately 150 thousand ha of meadows and wetlands need ecological rehabilitation/ reconstruction and rational economic utilization.  Proper management of pastures would provide for economic and biodiversity benefits and to this end the project will be piloting biodiversity-friendly pasture management systems on 100 ha of land in 2 district of Moldova, enabling combination of such measures as rotational grazing, hay-making, and
National Ecological Network (NEN) in Moldova (adopted by Governmental Decision nr. 593 from 01.08.2011) The NEN aims to protect biological and landscape diversity in Moldova under Pan-European Ecological Network, also in line with the CBD requirements and "National Biodiversity Strategy and Action Plan" of Moldova. Estimated costs for its implementation are US\$3,857,920 and will be allocated from the state (and local) budgets, special funds, international assistance and other sources.	silvo-pastoral practices.  Baseline element 2: The project's pilot districts fit into the scope of NEN and will benefit from financial coverage and support  In order to create stabilization of agro/forest ecosystems and ensure connectivity, NEN will undertake afforestation/ reforestation of 30,400 ha of water protection belts by 2018. It also pledges to extend the natural protected area network to include steppe areas in the Bugeac region (pilot district Stefan Voda is part of the region, including Copceac community). This provides a good foundation for the project's activities related to mainstreaming biodiversity conservation into land use planning.
Strategy of Sustainable Development of the Forestry Sector of Moldova (adopted by Parliamentary Decision Nr. 350 from 12.07.2001) It is the main forestry policy document in the country and has several objectives: (i) enhancing forest eco/bio potential, (ii) biodiversity conservation, (iii) forest extension, (iv) ensuring forest guarding and protection, (v) meeting socio-economic problems, and (vi) conserving rural landscapes. There is no fixed funding amount, but sources are various: from forest/forestry management, state budget, credits and grants (national and international), technical assistance from donors.	Baseline element 3: Afforestation and reforestation activities of Moldsilva and associated support by state forestry enterprises The aim of the Strategy is to reach 15% of forest cover by 2020 (13.7% is the current cover), so the reforestation activities of the project will add to this.  Extension of the forest cover will mostly take place on community or private lands, and the project focuses on community lands (mainly degraded lands).
National Plan for Forest Vegetation Extension 2014-2018 (Approved by GD 101/2014).  MoE is responsible for implementation, and LPAs will contribute through land allocation for afforestation and reforestation. Planting/afforestation will be done by Moldsilva in cooperation with MAFI. Academy of Sciences will provide necessary assistance to stakeholders and partners.  The initiative envisages afforestation and reforestation of 13,000 ha in total of degraded lands and water protection forest belts, including maintaining forest plantations and ensuring their protection against illegal logging, illegal grazing and prevention of other transgressions.	Baseline element 4: There are selective areas planned for afforestation and reforestation activities in the two pilot districts, and can be classified as the contribution of the partners to the project Reforestation activities as part of the project will be done on community lands (including 'reserve fund' of community land), under appropriate binding agreements (supporting letters from communities/districts have been obtained). The respective component of the project will also rely on Moldsilva's prior experience in similar projects (including with BioCarbon Fund of the World Bank and Japanese Project) covering even larger areas, especially when there is the political will.

<sup>&</sup>lt;sup>7</sup> In Moldova, the terms afforestation and reforestation are used interchangeably. None of the relevant laws make a clear distinction between afforestation and reforestation.

Title, description, implementing agency, total value (USS) of the baseline program	Elements of the program which form part of the baseline project for GEF, and problems they address
The resources to support implementation come primarily from the National Environmental Fund administered by MoE. MoE will also seek other funding, including through international programs. Total budget is US\$21,406,600.	
Urban Planning Program for the Moldovan Localities for 2013-2016 (approved by GD nr. 493 from 04.07.2013) Only 33% of Moldova's urban areas and only 1% of its rural communities have urban planning documents adjusted to the new social-economic conditions. LPAs are responsible for carrying out general urban planning documents. However, LPAs are issuing urban planning certificates and construction authorizations in the absence of general urban plans, which is a violation of existing legislation.  Total budget of the Program is almost US\$17,334,300, and will be allocated from the state budget and/or from other sources.	Baseline element 5: This fits well with the activities of the project in the two pilot districts Under the GEF project, two types of plans will be developed: 1) District Spatial Plans (DSP) (under responsibility of MRDC) for 2 districts (Soroca, Stefan Voda) 2) Land Use Plans (LUP) (under responsibility of LPAs, CPAs, District Councils) for 4 communities (Zastanca, Badiceni, Talmaza and Copceac)

# Long term solution and barriers that need to be addressed

Despite the Government's reform efforts, the spatial/ territorial planning framework continues to be deficient, primarily because biodiversity conservation is not taken into account and the lack of coordination<sup>8</sup> has contributed to ecosystem fragmentation. The **long term solution** lies in reforming the manner in which agricultural, forestry and other production activities are planned and regulated across different land units and tenure categories at the landscape scale — so as to avoid, reduce and mitigate the pressures leading to biodiversity loss. There are two types of barriers to achieving this long term solution: (i) inadequacies in the planning and enforcement framework, and (ii) insufficient demonstrated experiences in biodiversity-compatible spatial planning and land management practices.

Barrier 1: Absence of planning and enforcement framework to mainstream biodiversity in the wider landscape through territorial planning

In order to conserve biodiversity outside PAs, there is a need for local-level spatial plans that not only fully take into consideration biodiversity conservation considerations, but are also effectively implemented with compliance being monitored and enforced. According to official statistics, approximately 33% of urban areas and only 1% of rural communities are provided with land-use planning documents adapted to the new socio-economic conditions. LPAs, responsible for land-use planning, still issue construction authorizations in the absence of spatial plans, which is in contradiction with existing legislation and is not sustainable from an environmental/biodiversity point of view. In addition, in the absence of spatial plans, residential areas (rural and urban) are gradually replacing areas important for biodiversity. An important barrier for mainstreaming biodiversity into territorial planning and land-use practices is the fact that there is no legal requirement in Moldova to integrate biodiversity aspects into land use plans. EIAs are only mandatory for newly designed, large scale production-type projects, and not mandatory for land-based activities already underway. Legislation does not define which habitats, species, and ecosystem goods and services need to be accounted for in territorial planning; it lacks methodologies and protocols for biodiversity mainstreaming in territorial planning. The Land Code, which regulates land and resources use, contradicts with a number of environment-related legislation and, most importantly, it lacks a realistic approach that takes into consideration biological and landscape

<sup>&</sup>lt;sup>8</sup> i.e., coordination between/ among (i) central public authorities (i.e. Ministries, Agencies subordinated to the Government) dealing with natural resources and/or land planning, and (ii) central public authorities and local public authorities, which is not always good in terms of considering biodiversity or rational use of natural resources.

diversity. There are several initiatives to modify the existing Land Code (e.g., from MAFI/ACSA, FAO), so the project comes at the right time to fit into these attempts by reflecting biodiversity conservation.

Biodiversity management objectives need to be accommodated in the overarching spatial and land use plans, which will guide land use practices in the different sectors. An adaptive approach is needed, employing acceptable limits of change, which will, in turn, require putting in place a sound environmental monitoring and data management system that is currently lacking. The existing legal frame of biodiversity monitoring is not fully in place and its enforcement is still a problem, mostly because of lack of coordination among stakeholders (governmental, science/academia, NGOs, community, private) and lack of interest in and understanding for species/habitat conservation at site level. Deriving from this, a system for setting and exacting penalties for unlawful activities needs to be urgently operationalized. The financial and human resources earmarked for baseline programs related to regulation of natural resource management and land use planning are deployed and managed by sectoral ministries/ departments/ agencies (MoE, MAFI, MRDC and Moldsilva) working in silos. There is a need to harmonize and coordinate efforts across sectors, and spearhead innovative ways and means of mainstreaming biodiversity into land-use planning in an integrated and coordinated way that balances socio-economic and environmental objectives.

Several institutions are also involved at national, district and local levels in monitoring and enforcing regulations relating to agriculture, forestry and other development sectors and biodiversity conservation. These include MoE, MAFI, MRDC, SEI, LPAs, and the police. The mandates for surveillance and prosecution of unlawful land-use practices at these institutions need to be clarified and closely coordinated in order to ensure the integration of biodiversity conservation into the different production sectors' agendas. There is limited technical capacity to deal with biodiversity mainstreaming in the production sectors. Moreover, there are weak capacities for permitting, monitoring, and enforcing biodiversity-friendly development at the district level with respect to managing threats.

Barrier 2: Inadequate demonstrated experiences in biodiversity-compatible spatial planning and land management practices

Against a background of high poverty levels, the local population and most district public authorities are guided by a quick-gain philosophy with respect to livestock management, forest use and other land-use practices. While theoretical options for long-term sustainable use of the land, which ensure the conservation of biodiversity and important ecosystem services, are available, their conservation efficacy, costs and benefits have not been tested. Decision-makers lack solid information on which to base decisions regarding land use allocation and management. Without a proper assessment and planning regime for the conservation of biodiversity, managers and users have a difficult time effectively evaluating and integrating threats to biodiversity within decision-making.

The Government has not extended efforts to build know-how among local communities and district administrations in biodiversity-friendly long-term spatial planning. MRDC extensively applies GIS mapping for spatial planning, and annotated soil maps have recently been completed for a few districts. Yet capacities for use of GIS to create biodiversity layers and overlay them on economic land-use schemes are not in place. As a result, important biodiversity information is not used in the process of allocation of land to various uses. Although some maps of biodiversity priority areas exist, they are not reflected in the District Development Plans and the District Spatial Plans. Capacity to interpret and integrate the maps in the spatial plans and other relevant planning and decision-making processes is very low. The integration of biodiversity priorities into the land use (spatial) planning process therefore remains very weak.

Further, Moldova does not have operational, "on-the-ground" examples of technical interventions that sustainably promote long-term biodiversity conservation in the productive landscape outside formal protected areas. Without access to replicable demonstrations, government decision-makers and resource users do not have the tools and knowledge necessary to decrease biodiversity loss.

#### 2. **STRATEGY**

### Rationale and Summary of GEF Alternative

The Government of Moldova is requesting GEF support through this project to remove, in an incremental manner, the existing barriers to mainstreaming biodiversity conservation priorities into Moldova's district territorial planning policies and land-use practices.

# Global environmental benefits

The immediate global biodiversity benefit is stabilization of pasture (converted steppe), wet-meadow, and forest ecosystems outside protected areas in 2 administrative districts with an area of approximately 204,000 hectares. This will ensure stability of a number of threatened and indicator species: indicator grass species (Stipa pennata and S. ucrainica) at natural steppes, populations of European Ground Squirrel (Spermophilus citellus) and Corn Crake (Crex crex) for steppes; Greater Spotted Eagle (Aquila clanga) for forests and adjacent wet meadows; and European Otter (Lutra lutra) for river and lake ecosystems. In the long-term, taking into account the replication effect, the project will ensure the longterm integrity of fragile ecosystems, including steppes and wet meadows (approximately 30,000 hectares), wetlands (approximately 10,000 hectares), river floodplains and lakes (approximately 10,000 hectares) and forest ecosystems (approximately 30,000 hectares).

Table 1. Summary of long term environmental benefits					
State of ecosystems under baseline	Summary of GEF incremental intervention	Biodiversity Benefits			
Land Use Planning and F	Regulation outside protected areas				
Land use planning does not account for ecosystem values, leading to ecosystem degradation and biodiversity losses	Integration of biodiversity conservation principles into territorial planning, compliance monitoring and enforcement Biodiversity harbored in forests and pastures (former steppes) incorporated as active components in DSPs, LUPs, GMPs, FMPs Sustainable management methods for pastures and forests (including forests and pastures of high biodiversity value and high economic value in terms of ecosystem goods and services) identified and appropriate land use applied to pilot areas	Biodiversity harbored in pastures and forests, as well as other ecosystem services (e.g., water supply from forests and forage productivity of steppe pastures), are maintained over a target area of 204,000 ha as a result of the following:  Competitive pressures between land uses in pasture and forest landscapes reduced as a result of silvopastoral practices piloted in the project area and which enable trees and pastures to co-exist successfully in a forest and livestock production system.  Decrease in grazing pressure and illegal logging in forestry territories  Decrease in overgrazing pressure in pastures leading to improved condition of pasture ecosystems.  Ecological corridors established between forest blocks, including between PAs, to improve survival probabilities of threatened species (in terms of providing for shelter, food, migratory paths etc. for animals and restoration of adequate habitats for both animals and plants).  Certain areas managed/ maintained as habitats for indicator species.			
Pastures (as steppe remn	Pastures (as steppe remnants)				
Overgrazing of pastures results in:	Improved pasture management: Rotational grazing to maintain pasture	By reducing overgrazing, improved conditions created for the restoration of grassland species' diversity,			
Carrying capacity being exceeded that leads to increased erosion, loss of	quality Enhance pasture productivity with selected plants Creation/ establishment of hay-making	while maintaining such steppe and forest populations under threat as: Saga Pedo, Otis Tarda, Felis Silvestris and others (full list of red list species is in Annex 4 of the UNDP Project Document).			
vegetation cover, soil compaction; Formation of deep gullies in	areas; increased fodder production allows reduced use of pastures in certain seasons Proactive anti-erosion measures to stop formation of gullies	LD co-benefits: Avoided soil erosion and compaction; restored and well-maintained vegetation cover; avoided drop in the ground water table; improved water quality over an area of 100 ha			

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State of ecosystems	Summary of GEF incremental intervention	Biodiversity Benefits
under baseline		
pasturelands (former steppes converted into vineyards, then restored as pastures) as a result of rainfall Abandonment of pastures by communities results in: Invasion of pastures by woody plants Pasturelands lose their capacity to support livestock and maintain steppe biodiversity Authorities lack the capacity to reduce woody invasions and manage pastures	Improved pasture management: Promotion of rotational grazing to maintain pasture quality Increased investment in repair and maintenance of key pasture use infrastructure (wells) allows greater flock mobility and use of abandoned pastures Rehabilitation of pasturelands by removing encroaching shrub vegetation Ensure water availability and suitable species composition for sustainable pasture management	CC co-benefits: Avoided emissions, restored carbon sequestration capacity and storage potential of grassland ecosystems as a result of introduction of sustainable pasture management practices over 100 ha.  Bringing abandoned pastures back into use will reduce degradation pressures on forests, steppes and other natural landscapes which are currently extensively used for grazing due to shortage of proper pastures. This will in turn result in improved conditions for the restoration of grassland species' diversity, while maintaining steppe and forest populations under threat  LD co-benefit: Prevention of negative vegetation succession and restoration of original vegetation compositions.  CC co-benefit: Reduction in frequency and severity of fires, in turn, reducing release of GHG from pasture/steppe fires.
sustainably		
Forests (including comm	unity plantations)	
Illegal logging in forests, grazing in forests Highly fragmented forest regions Low productive forests Plantations of nonnative but fast-growing species (mainly black locust) Rehabilitation of degraded areas	Sustainable forest management practices: Planting forest vegetation in problematic areas (degraded, eroded lands) or unused/ abandoned land Application of silvo-pastoral practices (promoting pastoral forests) Ensure habitat connectivity for biodiversity through establishing corridors Restoration/ rehabilitation of destroyed forests	The project incremental interventions are conducive to improved habitat for red list species enabling sheltering, migration, provisioning of food and other needs for these species to survive, as well as to supporting the forest ecosystem to withstand the invasion of exotic species.  LD/ SFM co-benefits: increase in forest cover by 100 ha in degraded areas, reduction in drying out of forests, prevention of the decline of ground watertable in forest and adjacent lands, restoration of sequestration and other ecosystem functions of forests.  CC/ SFM co-benefits: forest carbon pool of the target area maintained, assisted natural regeneration and native species reforestation (at 100 ha) leads to restored carbon sequestration capacity of forests.

# Project consistency with GEF focal area strategies

The project is designed to engineer a paradigm shift from unsustainable to sustainable, biodiversityfriendly land management in the Moldovan landscape. This will be accomplished by assisting Moldova in developing policies for mainstreaming biodiversity into territorial planning, livestock/pasture management, forestry and land use. Specifically, the national legislation will be amended and a policy introduced on identification of species and habitats that must be accounted for in territorial planning and economic activities. Territorial land use plans will be developed, compliance monitored and enforced based on increased knowledge and capacities of the regulatory, planning and enforcing authorities as well as land users/ owners (production sectors). Further, in-the-field technologies and incentives will be tested that help maintain the integrity of steppe (pastures), wetland, meadow and forest species and their habitats, promoting inclusion of sound scientific approach to drafting land-use principles and practices. The project is in line with GEF Biodiversity Focal Area, Strategic Objective 2: (i.e. Mainstream Biodiversity Conservation and Sustainable Use into Production Landscapes, Seascapes and Sector). It will specifically contribute to Outcome 2.1: Increase in sustainably managed landscapes and seascapes that integrate biodiversity conservation, through the passing of a package of modifications in land and forest legislation and related regulations and standards for mainstreaming biodiversity at national and local levels and the approval and implementation of 2 district-level Spatial Plans and 4 municipality-level

Land Use Plans (LUPs) that fully recognize biodiversity and mainstream it into the various land uses in the landscapes. The project advances the strategic targets of the UNCBD Strategic Plan for Biodiversity 2011 - 2020, in particular: 1) By 2020, at the latest, governments, business and stakeholders at all levels have taken steps to achieve or have implemented plans for sustainable production and consumption and have kept the impacts of natural resources well within safe ecological limits; 2) By 2020, the rate of loss of all natural habitats, including forests, is at least halved and where feasible brought close to zero, and degradation and fragmentation is significantly reduced.

<u>Project consistency with national strategies and plans or reports and assessments under relevant conventions</u>

This project is in line with the State Programme on Soil Improvements (2003) which promotes measures to bring about soil conservation and to increase agricultural productivity. This aims at replacing unsustainable agricultural land use practices with more sustainable farming systems. The Strategy for Sustainable Development of the Agriculture Sector (2006-2015) states that pastures and croplands should be exploited within the limits of their carrying capacities and managed to ensure the protection of flora and fauna. The project also addresses the Strategy for Sustainable Development of the National Forest Sector in the Republic of Moldova (2001). Furthermore, this project addresses the priorities of the National Biodiversity Strategy and Action Plan (NBSAP 2001), which called for action to integrate biodiversity management objectives into economic sector policies, with particular reference to agricultural sector production activities. The NBSAP identified the following interventions as being necessary: 1) introduce obligatory environmental regulations for territorial planning, taking into account ecological resilience, ecosystem vulnerability and the carrying capacity of ecosystems; 2) adapt territorial planning to accommodate biodiversity management needs; 3) reorient forest planning and management, with a view to protecting threatened habitats and species; and 4) develop and implement sectoral action plans in order to conserve and restore wetlands and other critical ecosystems. An updated NBSAP9 was produced within a GEF/UNDP project (2011-2013) to address Aichi targets, sectors' involvement into biodiversity conservation and rational management, and ecosystems/biodiversity goods and services. The project advances the strategic targets of the UNCBD Strategic Plan for Biodiversity 2011 - 2020, in particular: Target 4: By 2020, at the latest, governments, business and stakeholders at all levels have taken steps to achieve or have implemented plans for sustainable production and consumption and have kept the impacts of natural resources well within safe ecological limits; and Target 5: By 2020, the rate of loss of all natural habitats, including forests, is at least halved and where feasible brought close to zero, and degradation and fragmentation is significantly reduced.

In addition, the *National Territorial Land Planning Scheme*, which is under development by MRDC, requires that district-level territorial plans incorporate biodiversity management concerns, and ensure that measures are taken to enhance the resilience of ecosystems. Important objectives pertaining to environment protection are also stipulated by the Government Programme "European Integration: Freedom, Democracy and Welfare" (2009-2013), including *inter alia* the promotion of ecologically friendly land use practices and the prevention and reduction of the degradation of ecosystems.

# Project objective, outcomes and outputs

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The project is in line with the updated NBSAP. The updated NBSAP places special emphasis on (i) assessing and integrating ecosystem services through economic valuation and (ii) mainstreaming biodiversity into development policies, plans and practices and into sectoral plans and strategies. The project specifically furthers this objective of mainstreaming biodiversity conservation into the following sectors – agriculture, forestry, livestock, and fishing – by making modifications to relevant sectoral policies and demonstrating this approach in 2 target districts. It will draw on data/ information on the economic value of ecosystem services in the Republic of Moldova generated by the updated NBSAP process. Specifically, Output 1.4 that develops a system of penalties for malfeasance to approved spatial plans will be based on an assessment of economic/ monetary values of biodiversity and ecosystem services that, in turn, builds on GEF/ UNDP's NBSAP project results.

The objective of the project is to mainstream biodiversity conservation priorities into Moldova's territorial planning policies and land-use practices. This will be achieved through two project components as described below. (The project strategy has been modified in response to comments received on the PIF from the GEF Secretariat – Annex 1)

# Component 1: Land use planning and enforcement system addresses biodiversity loss

Output 1.1: Modifications to land and forest legislation and related regulations and standards for mainstreaming biodiversity at national and local levels

Regulation on identification of vulnerable species, habitats and ecosystem goods and services during land use planning. A comparative analysis of national and international legal/ normative frameworks for each sector – agriculture, forestry and land use planning – with regard to inclusion of biodiversity conservation will be undertaken. Relevant proposals for amending existing legislation will be developed (e.g., Law on Vegetal Kingdom, Law on Animal Kingdom, Law on land use planning etc.) so as to ensure that it becomes a requirement of land use planning exercises to identify vulnerable species, habitats, and ecosystem goods and services.

Amendment to the 1991 Land Code introducing requirements for identification and incorporation of biodiversity outside PAs in District Spatial Plans and Land Use Plans of localities. The main legal document regulating land relations and natural resource use is the Land Code, which is considered outdated and requiring new approach based on real developments. The Land Code needs to be improved with the participation of all interested stakeholders and sectors. The project will, therefore, establish a **joint working group** that will include both governmental and non-governmental institutions as well as the private sector (which is the main land holder in the country). Proposals for improving the Land Code will be developed based on a comparative analysis of existing land-use legislation and sectoral legislation, along with other environment-related legislation. As a result, biodiversity conservation will have a clear place and role in the provisions made to the Land Code in order to further halt losses in species and habitats.

Minimal standards for biodiversity conservation in pasture/livestock and hay-field management, arable farming, forest use, fishing and water-based recreation introduced in relevant sectoral legislation. The environmental agenda is not a priority for the country's development till 2020, so inclusion of minimum requirements for biodiversity conservation into the legislative framework for land use would protect an important part of existing natural diversity from being fragmented or lost. While biodiversity conservation is already included in many regulatory/ technical frameworks (e.g. forestry norms), there remain some sectors where it is still inadequately reflected (e.g., pasture management, farming/grazing) or enforcement is poor. Therefore, the legal framework in a number of sectors will be improved based on species/ habitat requirements (e.g. certain old/dying trees should be left on a felling site, grazing should be limited for a certain period, certain steppe/ pasture areas should not be grazed in early spring, etc.). Furthermore, in defining minimal standards, an integrated approach to the use of natural resources will be taken (e.g., water, forest, pasture/steppe to be regarded as interconnected and interdependent in terms of biodiversity). Special attention will be paid to the private sector, which traditionally has not been included from the environmental/biodiversity point of view, and appropriate proposals to modify the legal framework to improve participation of the private sector will be made.

Improving cooperation/ coordination among stakeholders regarding legislative improvements. Incorporating biodiversity conservation into the legislative framework will first be discussed with stakeholders, using technical meetings and interactive consultations with sectors and experts. All proposals that are developed will be discussed with key central governmental agencies related to biodiversity/ land policy and use/ management (i.e., MoE, MAFI, MRDC, Moldsilva) and local governments in pilot areas (i.e., Soroca and Stefan Voda districts). This improved coordination will help stakeholders share information, synchronize activities, reduce duplication and avoid losses in biodiversity.

A dialogue among main stakeholders (governmental, non-governmental, academic institutions / universities, community, private) that would involve all production sectors, including land planning and use, will be undertaken. Inclusion of the representatives of these main stakeholder groups in training activities (Outputs 1.5 and 2.4) is envisaged.

Output 1.2: Monitoring system in place to track change in biodiversity-important areas, and take adaptive measures to reduce impacts

This output will strengthen the enabling environment for proper monitoring of biodiversity (rare and endangered species) in landscapes outside protected areas before and during the process of territorial planning. The monitoring approach relies on introducing species/ habitat (S/ H) Passports to landowners outside PAs in the 2 target districts of the project.

A recent GEF/ UNDP Protected Areas System Project in Moldova has developed Passports for the PA system. The Passport provides a detailed description of a species/ habitat (figures, area/ individuals, maps/ GIS, actions/ recommendations etc.) that could span state land, community land, and/ or private land. The project will replicate this experience for species/habitats outside PAs, bearing in mind that species migrate and agricultural fields, be they community or private land, can serve as habitats and/ or food niches for a number of rare species.

This will entail the following steps: (1) introduce the necessary legal amendments to make it mandatory to develop Passports for red list species identified during inventories as part of the territorial and urban planning process (outside PAs); (2) pilot the Passport approach in the two target districts – by undertaking an inventory of red list species and development of Passports for these species and their habitats (location and other species-related data); (3) develop mandatory conservation actions that the landowner/ user must undertake in order to conserve the species and/ or habitat; (4) ensure broad consultation with landowners/ users on Passports and mandatory conservation actions; (5) provide the approved Passports and mandatory conservation actions to district-level environmental inspection and Cadastre office for further monitoring; and finally (6) ensure that agreed Passports and mandatory conservation actions are included in forest management plans (FMPs) if the species is found in the forest fund, grazing management plans (GMPs), district spatial plans (DSPs), and land use plans for localities (LUPs) that will be developed by the project in the 2 target districts under Output 2.1, as well as in other planning tools (such as hunting, tourism, fishing, water use documentation).

Implementing this Passport-based approach to monitoring rare and endangered species/ habitats outside PAs and ensuring integration of appropriate actions for their conservation in DSPs, LUPs, FMPs and GMPs will require a closer dialogue between the MoE, which is responsible for managing information on biodiversity, and the ALRC, which is responsible for land and soil databases that it uses to support the territorial planning process. MRDC, Academy of Sciences, Moldsilva, and SEI will also have to be engaged in the process.

Methodological recommendations will be developed for monitoring and supervision of the DSPs, LUPs, FMPs and GMPs, especially taking into account the conservation of biological and landscape diversity. These will define the requirements for monitoring and supervision of the implementation of territorial plans, sequential steps for their implementation, required modifications to the legislative and regulatory framework, and also, where necessary, the definition of "compulsory" actions that need to be implemented by landowners/ users.

The roles and responsibilities of the involved organizations will be clearly defined such that they draw on the expertise of all these actors and are based on comparative advantage. It is anticipated that the district-level representatives of MoE will, at regular intervals, monitor the condition of rare and endangered species' habitats and biotopes that are to be protected by landowners/ users, as well as the effectiveness of the obligations placed on the landowners/ users by the species maintenance standards. Monitoring results

will be provided to the district executive committees, MoE and ALRC. Academic institutions will also be invited to be part of the process through appropriate research and analysis.

# Output 1.3: National multi-sectoral stakeholder committee established to oversee land-use plan development, implementation and enforcement

Under this output a Multi-Stakeholder Biodiversity Mainstreaming Committee (MSBMC) will be created under the Ministry of Environment. This committee will bring together authorities tasked with natural resource and land use planning and permitting responsibilities, at a national scale. The MSBMC will ensure a unified approach in the development, implementation and enforcement of land-use plans by the different ministries and departments resulting in the optimum use of land in terms of biodiversity conservation, ecosystem services and socio-economic development. It will facilitate dialogue on biodiversity conservation and coordination of production and development sectors' programs and policies, and provide guidance and oversight for practices that are biodiversity-friendly. The MSBMC will be established through a special order of MoE. Chairperson of the MSBMC will be Minister of Environment (or mandated person from MoE), the Deputy Chairperson will be from the MRDC, and the secretary from the MoE. The terms of reference and membership of this committee, statutory responsibilities, plus periodicity of meetings and other requirements are in the Annex 2.

# Output 1.4: System of penalties for malfeasance to the approved DSPs and LUPs developed

Moldova has a poor enforcement system in the area of environmental protection in general, and in the area of biodiversity conservation related legislation in particular. State Ecological Inspectorate (SEI) and Moldsilva are just few of the state institutions mandated with enforcement of biodiversity-related legislation. Relevant inspection agencies of MAFI also have enforcement responsibilities in relation to agricultural ecosystems. Although fines and penalties can be effective enforcement mechanisms, in Moldova these are either insignificant and do not cover the produced damage, or are missing and/or ignored. Some examples of poor enforcement are regulation of the number of livestock at the local level and the grazing regime, and burning of vegetative residues by farmers leading to degradation and loss of agricultural ecosystems.

Therefore, the project will analyze the legislative framework and develop a proposal for a system of penalties commensurate with the loss in biodiversity. This system will reflect the new biodiversity-friendly land use practices and the clarification in the mandates of the different agencies responsible for enforcement and prosecution. Existing fines, penalties and grazing taxes will be revised (including necessary proposals to amend the Administrative Code) to maximize the efficacy of the system in preventing biodiversity-harmful activities. The fines and penalties will be increased according to the real value of biodiversity (or ecosystem) loss and be applicable evenly to all transgressors. An assessment of economic/ monetary values of biodiversity and ecosystem services (building on GEF/ UNDP's NBSAP project results) will provide the necessary rationale for this. It is extremely important to take into account that any spatial plan, prior to approval or during elaboration, needs to be in compliance with (i) national legislation, (ii) ratified conventions, and (iii) rational use of natural resources.

# Output 1.5: Government officers from key institutions trained in participatory spatial planning that integrates biodiversity conservation principles

Under this output training sessions will be conducted to promote integrated land and biodiversity/ ecosystem planning. Capacities of staff from MoE, MAFI, MRDC, Agency for Land Relations and Cadaster, LPAs, and local environmental inspectors will be strengthened through targeted training on (i) integrated spatial planning, (ii) ecosystem values; (iii) sustainable livestock management, hay-making and

<sup>&</sup>lt;sup>10</sup> Such as Ministry of Environment, Ministry of Regional Development and Construction, Agency Moldsilva, Agency for Land Relations and Cadastre, Academy of Sciences, LPAs (District Council Soroca, District Council Stefan Voda)

forest use; and (iv) enforcement of spatial plans (including conflict resolution). The training will focus on improving coordination between biodiversity/ environmental-related institutions and land use/ spatial planning-related institutions and the audience will be sought to be gender balanced.

In addition, government staff from other communities within the 2 target districts, as well as from other districts, will be invited to promote replication. The impact of the project's capacity building activities will be tracked with a capacity development scorecard (see Annex 3). The following table provides topics, main target groups and experts/ institutions to be involved in the training.

Table 2 Summary of training on participatory spatial planning that integrates biodiversity

Table 2. Summary of tr <u>aini</u>	ng on participatory spatial planning that integrates	biodiversity
Thematic Focus	Target Group	Experts/Institutions involved
Integrating	Environmental/forestry/agriculture:	Experts in biodiversity
environment/biodiversity	Ministry of Environment	Experts in urbanism and/or
into land/spatial planning –	Ministry of Agriculture and Food Industry	construction
coordination between	State Ecological Inspectorate	Sectoral representatives
sectors (policymakers) at national level	Agency Moldsilva	
	Land/urban/infrastructure planning:	
	Ministry of Transport and Road Infrastructure	
	Ministry of Regional Development and Construction	
	Agency for Land Relations and Cadastre	
Improving the legislative	Environmental/forestry/agriculture:	Legal experts (with
framework by involving	Ministry of Environment	background in environment or related fields)
key governmental	Ministry of Agriculture and Food Industry	Representatives of
institutions, coordinating	State Ecological Inspectorate	governmental institutions
activities, and developing synchronized policy	Agency Moldsilva	governmental institutions
	Land/urban/infrastructure planning:	
	Ministry of Transport and Road Infrastructure	
	Ministry of Regional Development and Construction	
	Agency for Land Relations and Cadastre	
	Juridical/law:	
	Ministry of Justice	
Non-fragmented habitat	Environmental/forestry/agriculture:	Experts in agriculture,
approach to land use /	Ministry of Environment	forestry, environment or
biodiversity policy making	Ministry of Agriculture and Food Industry	related to other natural
	State Ecological Inspectorate	resources
	Agency Moldsilva	Experts in cadaster, GIS or
		similar fields  Experts in transport (ground,
	Land/urban/infrastructure planning:	air, water)
	Ministry of Transport and Road Infrastructure	an, water
	Ministry of Regional Development and Construction Agency for Land Relations and Cadastre	
	Agency for Land Relations and Cadastie	
	Transport/Infrastructure:	
	Ministry of Transport and Road Infrastructure	
	Rail Road Agency	
Introducing Passport for	Ministry of Environment	Experts in biodiversity (from
species/habitat	Ministry of Agriculture and Food Industry	sectors)
	State Ecological Inspectorate	Experts in cadaster/GIS
	Agency Moldsilva	
	Agency for Land Relations and Cadastre	

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# Component 2: Conservation and Sustainable Use of Biodiversity on Communal Land

Output 2.1: Integrated district spatial plans<sup>11</sup> (DSPs) and land use plans<sup>12</sup> (LUPs) accommodating biodiversity concerns are developed for two districts

Developing biodiversity-compatible DSPs for 2 districts (Soroca and Stefan Voda). According to the Urban Planning Program for the Moldovan Localities for 2013-2016 (approved by GD nr. 493 from 04.07.2013), all localities (towns, rural communities) should develop land use plans. However, the project's target districts do not have DSPs in place. This output will develop DSPs by relying on crosssectoral working groups, GIS technologies for biodiversity mapping, identifying sites of conflict between biodiversity and human activities, developing recommendations for managing the conflicts in a win-win manner and adapting the currently destructive economic activities, finalizing plans and submitting them to district administrations for implementation, with a clear enforcement and monitoring apparatus. S/ H Passports and mandatory conservation actions developed under Output 1.2 will be integrated into the development and implementation of the DSPs. The focus of the DSPs will be on ensuring optimal allocation of land to generate development benefits and critical biodiversity benefits in tandem. The plans will be based on an assessment of the economic valuation of biodiversity and ecosystem services in areas of high biodiversity or in critical areas e.g. ecological corridors. A recent REC project is helping selected district in developing District Environmental Plans (DEP), including in Stefan Voda. Soroca district does not have a DEP. The project will ensure that the DSP for Stefan Voda builds on priority areas of the DEP and will cooperate with REC on that.

The target districts are Soroca and Stefan Voda. Both pilot districts represent areas rich in biodiversity, with areas included in two Ramsar sites<sup>13</sup>. The districts are located on the border with Ukraine and along the Nistru river ecosystem. The two regions also vary in terms of economic conditions. A brief description of the two districts, including land use documentation related to the project, is provided below, and more detailed information can be found in Annex 4.

Soroca district (104,300 ha): Located in north-east Moldova, Soroca district's administrative center is the town of Soroca, surrounded by 33 villages. Approximately 60% of the total land area is used for agriculture (arable land is 53%), and only 7% is under forest cover. Approximately 63% of the population lives in rural areas and 37% in urban areas. The District Council has its own Socio-Economic Development Plan, wherein the stated priority is infrastructure and environmental protection. There is, however, no DSP that would built on the existing Socio-Economic Development Plan. There is a Land Use Plan (LUP) for Soroca town that was developed in 2012, covering a period of 25 years. There are general (cadastral) plans for localities developed from 1960 to 1990 that cover a period of 25 years. These have all expired. District authorities intend to develop Cadastral Plans for each of the 34 localities in the district, and they are seeking funds for this.

Stefan Voda district (99,838 ha). Located in south-east Moldova, Stefan Voda district's administrative center is the town of Stefan Voda, surrounded by 25 villages. Approximately 65% of the total area is used for agriculture (arable land is 56%), and approximately 9.6% is under forest cover. Stefan Voda town has a Strategic Socio-economic Development Plan. There is no DSP; however, a new LUP is envisaged to be developed in 2016. There is a general (cadastral) plan for the town, accompanied by a map, developed in

<sup>&</sup>lt;sup>11</sup> District Spatial Plan (DSP) represents an expression of physical organisation of space within a district, and directed towards balanced territorial development reflecting economic, social, cultural and ecological policies of society.

<sup>12</sup> Land Use Plan (LUP), or urbanistic plan, is a documentation which states conditions for positioning of various

activities in a given area, and is developed for a part or entire locality, or for an area/ land meant to become a locality.

Ramsar Site nr. 1500 "Unguri – Holosnita" (2008) (15,553 hectares; 48°17'N 028°03'E) in Soroca and Ocnita districts; and Ramsar site nr. 1316 "Lower Dniester" (2003); 60,000 ha; 46 34'N 29 49'E; mostly located in the Stefan Voda district

1986. The rest of the localities have general plans, which were last developed in 1990, and, similar to Soroca district, have expired.

In order to increase chances for successful implementation of the 2 DSPs developed under this output, as well as to trigger replication of project results, it will be important to demonstrate biodiversity compatible land-uses through field pilots in selected communities of the two districts. These pilots are to be implemented under Outputs 2.2 and 2.3. Further, the project will produce a model of land-use planning that will be adjusted for ecological, social and economic variations across the 2 districts, with high potential for replicability in neighboring districts after the project termination.

Developing LUPs for 4 selected localities that consider biodiversity and ecosystem continuity. LUPs will be developed for 4 rural localities: Zastinca and Badiceni (in Soroca district), and Copceac and Talmaza (in Stefan Voda district). S/ H Passports and mandatory conservation actions developed under Output 1.2 will be integrated into the development and implementation of the LUPs. All these localities have general plans that have expired (e.g. general plan for Talmaza village was developed in 1977, and for Copceac village in 1982). LUPs will be developed in close cooperation with various landowners. Developing LUPs is necessary to demonstrate a practical way to shift from unsustainable to biodiversity-friendly production activities, focusing on the most threatening land-use practices, namely livestock management and forest use (as regards examples of biodiversity-friendly practices on arable land, these are expected to be demonstrated by baseline programs).

The development of DSPs and LUPs will be important for reducing threats to biodiversity from expansion of various types of infrastructure. The plans will attempt to reduce the level of intervention into natural habitats and to further a sustainable approach to human-biodiversity relations for example by giving consideration to agro-tourism.

Developing a spatially-based digital decision-making system for biodiversity conservation that is available for use in policy development, cross-sectoral spatial planning and management. This system will be developed in cooperation with the Agency for Land Relations and Cadastre (ALRC), MoE and its subordinated institutions mandated with biodiversity monitoring functions, and will be built on an existing portals/platforms by using data from existing land and/or soil registers (databases) at ALRC. Consultations during the PPG have shown that the ALRC holds a huge database and information, but what they lack is biodiversity-related input. This gap will be filled by a detailed biodiversity inventory and classification of all lands in the four target localities, information on the location of critical habitats and species, and thresholds for the use of biodiversity resources. All necessary scientific information will be obtained from the Academy of Sciences (mainly biodiversity-related institutes and experts), some NGOs, Moldsilva, and/or provided by other reliable sources. Eventually, such a system will (a) help local administrations (district, rural localities level) receive necessary biodiversity-related information, (b) integrate biodiversity/ ecosystems in local/ regional planning, and (c) address the disconnect between continuous land repartition and the needs for biodiversity to ensure its functions. The system will be developed as a unified system for the entire country, with an initial focus on the two selected districts and the four selected localities.

Developing Grazing Management Plans (GMP) for selected areas. Implementation of this output will support operationalization of the Zoo-technical Law which requires that LPAs develop Grazing Management Plans and provide for rational use of public pasture lands. So far, there is no such experience with implementation of this provision in Moldova, therefore the project will be instrumental in piloting efficient grazing management practices that consider the real effect that the grazing animals exert on existing pasturelands (former steppes converted into pastures) and their remaining biodiversity (namely rare plants and animals). S/ H Passports and mandatory conservation actions developed under Output 1.2 will be integrated into the development and implementation of the GMPs. The total area covered by GMPs is 2483.57 ha and will be distributed as follows:

In Soroca district – totally 1118, 49 ha of pastureland (Zastanca – 354,69 ha, Badiceni – 763,8 ha)

In Stefan Voda district – totally 1365,08 ha of pastureland (Talmaza – 860,27 ha, Copceac – 504.08 ha)

Developing Forest Management Plans (FMPs) for selected districts. According to Forest Code (1996) all forests should have FMPs. Normally, FMPs are elaborated for a period of 10 years and their implementation is mandatory. Forests managed by Moldsilva traditionally have FMPs, while other forest owners usually lack FMPs (except some community forestland that developed FMPs within internationally funded projects). Forest management planning is based on five major principles: i) continuity of forest functions, ii) optimal and sustainable exercise of multiple production and protection functions of the forest, iii) optimal and sustainable utilization of forest, iv) principle of aesthetics, and v) biodiversity conservation. Although FMPs contain detailed description of the site and main tree species, and the normative frame for conducting FMP reflects biodiversity conservation in general, data on rare and endangered species need to be explicitly included in the FMPs (e.g. species name, location, other data if relevant). To ensure that information on rare and endangered species in forestlands is reflected, the S/ H Passports and mandatory conservation actions developed under Output 1.2 will be integrated into the development and implementation of the FMPs. The project intends to undertake FMPs only in community forestlands. The total area to be covered by FMP in selected districts and localities is 768 ha of forest vegetation (which represents forest plantations and/or forest shelter belts), as follows:

- In Soroca district 333 ha (Zastanca 45 ha of forests and 11 ha of shelterbelts; Badiceni 238 ha of forests and 39 ha of shelterbelts)
- In Stefan Voda district 435 ha (Talmaza 208 ha of forests and 45 ha of shelterbelts, Copceac 106 ha of forests and 76 ha of shelterbelts)

Output 2.2: Technologies developed, tested and appropriate infrastructure established to showcase biodiversity-compatible land uses in pasturelands<sup>14</sup>

In line with the LUPs developed in Output 2.1, technologies will be developed and tested and the necessary infrastructure will be put in place to demonstrate biodiversity-compatible practices at specific sites covering at least 100 hectares of pastures and dry meadows. The approach will be tested on selected communal (municipal) land by conducting the following:

Rehabilitation of pasturelands through removal of encroaching shrub/woody vegetation, and improving vegetation cover (without adversely affecting species composition and soil structure). This will be done in selected pastureland areas based on agreements received from districts and communities (see maps for each site in Annex 4), as follows:

- Soroca district total area of 51 ha, of which:
  - o 11 ha in Zastinca
  - o 40 ha in Badiceni
- Stefan Voda district total area of 49,8 ha, of which:
  - o 9.4 ha of "Langa antigrindina" [Near Hail Cannon] area, Talmaza
  - o 5 ha of "Statia de pompare a apei nr. 1" [Water pumping station nr. 1] area, Talmaza
  - o 2.8 ha of "In coada iazului" [To lake's tail] area, Talmaza
  - o 7.6 ha of "Ezercan" area in the Lower Nistru wetlands, Talmaza
  - o 20 ha in Copceac
  - o 5 ha in Slobozia).

<sup>&</sup>lt;sup>14</sup> Note on pasturelands in Moldova: Moldova's pastures are former steppes that have been converted, and they still preserve some steppe species. However, these species are much reduced in population/ numbers and have a narrower distribution due to livestock and other pressures.

In Moldova many pasturelands are not properly managed and as a result these lands get invaded/ encroached by woody species (shrubs in the majority of cases). The most common species of shrubs are dog-rose (Rosa canina sp.), common hawthorn (Crataegus monogyna sp.) and silver berry (Elaeagnus angustifolia). Encroachment by shrubs has an adverse impact on the grass vegetation for haymaking as well as on grazing opportunities. If the shrubs are removed and the pasturelands are managed accordingly (mowed regularly if used as a haymaking area or grazed rotationally respecting the grazing period and grazing capacity) there is little chance that shrubs will emerge again.

Analyses undertaken during the PPG have shown that pasture areas in some of the selected communities are invaded by several shrub species, mainly native Dog Rose (*Rosa canina*) and/or by non-native Oleaster (*Elaeagnus angustifolia*), which have reduced the surface for grazing and altered typical steppe biodiversity/ecosystem composition. Most of these shrubs need to be removed and a control strategy needs to be undertaken on a long-term basis. However, some of the Dog Rose shrubs can be left in the field as the local population (and fauna) use the fruit for self-consumption and income-generation (e.g. sale of fruit in markets for food and/ or medicinal values). Out of the eight proposed pilot pasturelands, there are only 2 sites that need removal of shrubs and the respective costs will be the contribution of local communities.

Pasture improvement activities will maintain/ respect species composition in accordance with local conditions (e.g., alternation of dry and rainy seasons) and will utilize best adapted plant species to meet xerophytic requirements (the latter is especially important in Stefan Voda district). Both leguminous and grain species will be present and/or applied to selected areas where appropriate.

Amelioration of actively eroded pasture/ steppes to stop their degradation. There is a pilot area in Copceac community that is experiencing an intensive soil erosion process, in turn affecting the remaining natural steppe habitat of the country for *Stipa pennata* and *S. ucrainica*. In these areas, measures will be taken to stop and prevent erosion, such as:

- building retaining walls, using sprouts or other woody constructions from sprouts or other plant material
- using mulch to enhance erosion control (usually applying a healthy layer of mulch after finding out which mulch is best for the particular site)

Establishing high biodiversity hay production areas. Pastures that are restored through natural pasture maintenance methodology, without destruction of existing vegetal cover, will be used in the first two to three years as hayfield, and then as pasturelands. Using the plots as a hayfield in the initial stage will create conditions for the lead species (*Stipa sp*) to be restored, in turn creating favorable habitat for other steppe species, and increase hay productivity and quality. The project will cooperate closely with local administrations in order to guard the set-aside parcels. If needed, such areas will be fenced using various materials (wires etc.). The last two actions will be covered by local communities.

Optimization of livestock and application of rotational grazing. This will be done together with agreed regulated haymaking and rotational system on small-acreage areas. The restoration methodology will aim to improve and maintain natural pastures without destruction of existing vegetal cover (through pasture regulation, over-seeding and other agro-technical interventions needed for natural habitat restoration support). In order to encourage property rights in these historically open-access properties, livestock owners will be assisted in institutional strengthening through the establishment of associations. The municipalities will enter into legally-binding agreements based on the jointly-developed management plans (Grazing Management Plans, see below) with livestock owners and approved by Local Community Council, which is a community level decision-making body. The optimization of livestock numbers of the individual farmers will be based on a fair and equitable mechanism. Through this mechanism, no individual farmer will lose the right to graze, but only a reduction in number of animals allowed to graze on the specific steppe area will be enforced. The farmers will be compensated for this loss through

increased property rights on the land through longer term agreements and through moving away from an open access regime therefore allowing the individual livestock owners to plan longer term, increased productivity of the remaining livestock as the fodder will be of better quality and diversity and reduced rent payments to the municipalities for the use of the pastures..

# Output 2.3: Ecological connectivity established between and within different forest blocks

Given the threats to biodiversity in the forestry sector and the increasing fragmentation of remaining forests, building eco-forest corridors would create conditions for increased connectivity. This will ensure genetic movement among scattered groups of animals, provide access to food and water sources, which would enhance population viability in the long term. Eventually, such green habitat corridors between forest fragments will help decrease the number of conflicts with humans

Designing and implementing community forest management schemes to improve ecological connectivity in selected pilots. The Forest Research and Management Institute (FRMI), an authorized institution, will develop a scheme of forest regeneration and sustainable forest management. The species composition will be designed in line with biodiversity requirements and taking into account soil qualities (this will be linked to Output 2.2 as the testing of silvo-pastoral practices will be carried out in areas where communities graze cattle). FRMI will also evaluate costs according to technological maps/plans and design the plan for subsequent forest management by communities. It is extremely important that all norms and prescriptions in this SFM activity are consulted, understood and respected by the land owner and/or executors of planting activities. Reforestation (seedlings and planting financed from Government's National Plan of Forest Vegetation Extension) and subsequent sustainable forest management schemes will be complimented by extensive trainings, technical support in forest management, quality control, monitoring of threat reductions and biodiversity population status. The four pilot-areas have been selected for this activity, as follows (see map in Annex 4 of project Document):

- (a) Ecologic corridor to PA "Bekyr Valley" Zastinca (Soroca District): This corridor will ensure connectivity from the Varancau forest area (mainly oak formations with an average age of 65 years) with the natural complexes joining the Bekyr Valley (a PA with an area of 40 ha, consisting mainly of calcareous rocks covered with forests and slopes of pasture/steppe remnants).
- (b) Ecologic corridor Badiceni-Iarova (Soroca District): This is the longest and linear-shaped corridor, ensuring connectivity from Decebal forest area (an oak formation with an average age of 70 years) through a long community forestland (belonging to Iarova and Cremenciug communities, consisting mainly of young plantations of black locust mixed with native species, such as oak, willow etc.) to Badiceni forest (a mixed plantation of various species).
- (c) Copceac forest-steppe corridor (Stefan Voda district): This corridor will span 3 areas located close to each other, and will ensure connectivity and ecosystem stability on 32 ha of land. It will connect Copceacul de Sus forest with Copceac Rivulet forests and Copceac Forest near the village.
- (d) Talmaza shelterbelt corridors (Stefan Voda District): Approximately 22.4 ha were selected based on land availability for reforestation and importance as an environmental protection area.

# Output 2.4: Land users trained in mainstreaming biodiversity concerns in land use practices

In order to ensure adoption of pilot approaches to mainstreaming biodiversity, the project will train landusers in biodiversity-friendly approaches in each type of land management (livestock grazing, haymaking, arable agriculture, use of forests). This will also include field training for land owners (including affected land users), private sector, farmers, cattle holders and businesses and the audience will be gender balanced. Opportunities for silvo-pastoral practices along with rotational grazing (including possible economic, social and environmental gains) will be discussed and benefits shown, taking into account agro-forestry conditions of the country. In addition, stakeholders from other communities within the 2 target districts, as well as from other districts, will be invited to promote replication. The impact of the

project's capacity building activities will be tracked with a capacity development scorecard (see Annex 3). The following table provides topics, main target groups and experts/institutions to be involved in trainings.

Table 3 Summary of training workshops on integrating biodiversity in land use

	rkshops on integrating biodiversity in land	Experts/Institutions involved
Thematic Focus	Target Group	
Implementing integrated spatial	District Councils	Cadastre experts
planning policy that considers	Community Councils	Urban planning experts
biodiversity/ecosystem approach	State Forestry Enterprises	Biodiversity experts
and connectivity - coordination	Local Cadastre specialists	Academy of Sciences (botany.
among sectors and land owners	Agro-farmers (private or collective)	zoology, ecology/geography)
at local level	Local ecological agencies	
	Private sector	
Applying silvo-pastoral practices:	Communities/villages of:	Agro-forestry experts
opportunities for improving	Soroca district	Pasture management experts
pasturelands covered with	Stefan Voda district	Forestry experts
woody/shrubby vegetation	Holders of cattle (private / family)	Biodiversity institutions
Woody, Million Co.	Farm groups (pasture, vineyards, orchards)	Legal experts
	Community forest owners	
	Private forest owners (if any)	
	State forest enterprises (local)	
Considering profit from pastures: a	Communities/villages (holders of pasturelands)	Pasture/livestock experts
rotational grazing approach to	Holders of cattle (private / family)	Biodiversity/conservation experts
gain benefits (economic, social	Private sector	
and environmental)	Business	
Improving biodiversity	District Councils	Biodiversity experts
conservation in pilot areas: a	Community/village personnel	Academy of Sciences (Institute of
habitat management approach to	Farmers	Botany, Institute of Zoology,
protect and restore species	Cattle holders	Institute of Ecology and
populations, including Passport	Private agents (agriculture, forestry)	Geography)
for species/habitats	,,	
Monitoring of protected species	Districts	Experts from Ministry of
and ecosystems at the local	Communities/villages	Environment
levels – in protected areas and	Farmers	Appropriate Institutes of Academ
outside protected areas	Private sector	of Sciences
outside protected areas	Business (agro/forestry)	NGO (well-known) experts
	State forestry enterprises	1 494 675 1

Output 2.5: Secure public funds for mainstreaming initiatives

The focus will be on brokering public finance resources for biodiversity mainstreaming initiatives and aligning existing financial contributions in the forestry, agricultural and rangeland sectors to support biodiversity-friendly practices in the two districts. Further, to build the business case for increasing resources flows, valuation will be undertaken of costs/ benefits of different production systems and the new biodiversity-friendly practices within the selected landscapes and their benefits to biodiversity, ecosystem functioning and livelihoods. This information will be used by selected local governments to broker public and private resources for increased funding towards mainstreaming biodiversity concerns. Increasing funding allocation to this end will also involve review and re-alignment of existing funding to the identified production sectors. Public expenditure reviews of the agricultural, forestry and rangeland sectors in the two districts will be undertaken, negative spending will be identified and reduced, and budgets realigned to finance for example the destocking of rangeland, and rehabilitation of forests. For both new and existing (realigned) funding sources, the project will develop resource distribution criteria to ensure the most effective and efficient application of scarce resources and that adequate incentives are provided for landowners/ managers to make the move towards biodiversity-friendly practices.

Socio-Economic Benefits including Gender Dimensions

The main livelihood options of rural communities in Moldova are related to livestock husbandry, forestry, and crop cultivation. Approximately 52% of the population is rural, and almost half of these are subsistence farmers. Among the rural population, people aged 60 and over are 4.1-times higher than in urban areas. Subsistence farmer families belong to the poorest group of the Moldovan population. Most of them are single-person families (64.2%), and in 55% of the families the head of the household is a woman. By enhancing the resilience of the resource base on which these families depend, the project will deliver significant long-term economic benefits at the local level.

In the case of the business-as-usual scenario, the resilience of the ecosystems to withstand threats would keep declining, in turn affecting the rural population that depends on the ecosystem services. Specifically, spatial planning does not consider the long-term resilience of the resource base on which communities rely, and this will continue in the business-as-usual scenario.

Under the GEF alternative scenario, rural communities in 2 districts covering approximately 204,000 hectares of land and including 171,395 inhabitants, out of which 50% are women, will – through the territorial plans – receive assurance that the resource base on which they depend in agriculture (e.g. forage productivity) will be more productive in the longer term. The 18 agricultural enterprises in Soroca and 28 in Stefan Voda, which are stagnating at the moment due to low level of inputs, will have a better chance to sustain their businesses and to survive, this continuing to provide for jobs and improved livelihoods. Forest degradation and biodiversity loss is having a significant adverse impact on the population living in the pilot areas, especially for some 6,456 vulnerable families who depend on agro-biodiversity, firewood, berries, medicinal plants and other goods provided by natural ecosystems.

Further, the interest for eco- and agro-tourism is increasing in Moldova and the country is becoming more attractive for external visitors who come more often for leisure and vacation, rather than for business. Both Stefan Voda and Soroca districts have good tourism potential due to the natural heritage in these localities. There are around 10 tourism companies in the two districts and Soroca town is considered the oldest tourist route in Moldova. Therefore, the rehabilitation of pastures and forests will not only have a positive impact in terms of biodiversity conservation, but will also provide for an increase in income for families making their living from tourism-related activities.

Additional socio-economic benefits resulting from improved management of pastures are the following: 20% average increase of livestock productivity in terms of meat and milk, approximately 10,000 MDL (=\$600) annual net income from agricultural biomass per ha, increased potential for bee-keeping, and improved habitat for game and associated incomes.

Further, many local level activities will be implemented by local stakeholders themselves thus increasing their capacities for mainstreaming biodiversity. Following the UNDP and GEF gender policies and strategies, special attention will be placed on gender equity. In particular, full participation of women in consultations on sustainable biodiversity use and territorial planning processes will be ensured since 11% of all the businesses in the Stefan Voda district are women-led and the equivalent number for Soroca is 25%.

The project also has the potential for generating significant benefits at the national level. The project's work in the pilot districts will demonstrate how to secure ecosystem services that are vital to Moldova's economy. While the project's work in pilot districts is a modest start, it has the potential to be replicated in other parts of the country, thereby reducing the costs associated with loss of ecosystem services.

#### Cost-effectiveness

Moldova lacks natural renewable resources and there is acute shortage of water and biomass resources in some regions (quality of water is poor and polluted, and there is high demand for biomass as primary energy and animal forage). Soil degradation caused by a complex of factors (among them erosion and unsustainable management) may have a detrimental impact on general development and environment in

the country and regionally. The project will add value by demonstrating a more nature-friendly approach to sustainable development.

The cost-effectiveness of the project can be justified by the impact it will have on maintaining ecosystem/ biodiversity services through the shift to more sustainable land use practices. Ecosystems/ biodiversity provide not only direct goods, but also services such as water provision and regulation, soil fertility, growth and reproduction of food species, climate regulation etc. Key sectors are benefiting from these services - agriculture, fisheries, forestry, nature-based tourism, human settlements, etc.

The general value of the food provisioning service provided by biodiversity to agriculture is highly estimated. Pasturelands in Moldova are extremely poorly managed, but they are still important as biodiversity habitats for a number of species which have persisted from former steppes (after conversion) and/or provide food niches for other species (e.g. birds of prey that nest in forests but feed in open areas). However, if pasturelands continue to be managed as they currently are in the business as usual (BAU) scenario, this may result in irreversible damage to ecosystems in the future.

Even though shifting overgrazed and underused pastures to sustainable use (sustainable ecosystem management scenario or SEM) may imply a decrease in the value of food/ forage provided by pastures in the short and medium term, the values after 10-15 years are significantly higher than the BAU values. A continuation of BAU could lead to monetary losses for the local economy (as well as biodiversity loss) over the next 25 years. SEM requires that local people are motivated to maintain balanced/ rational breeding and grazing practices (in the short run grazing may reach its carrying capacity and is maintained at this level into the long term), and use of pastures at carrying capacity so as not to damage the ecological equilibrium.

Planting forest vegetation on degraded lands will have a positive impact in the long run as it will mitigate soil erosion and provide habitat corridors from an ecological point of view. Additionally, ecosystem/biodiversity services will be maintained through sustainable community forestry (e.g. carbon sequestration, water and soil erosion regulation). Reforestation of 100 ha will provide additional forest provisioning services.

#### Innovativeness, sustainability and potential for scaling up

The project demonstrates several approaches for the first time in Moldova, including integration of biodiversity data into land use planning, economic valuation of biodiversity values when assigning land use under the newly developed LUPs, as well as regulating grazing for biodiversity values. Although reforestation approaches have been implemented in Moldova, these were mostly based on increasing forest cover and in many cases have used exotic species. The project will be targeting native species reforestation with the aim to prevent/control soil erosion and to increase the functional connectivity between isolated forest blocks.

In terms of sustainability, the project is building on a strong baseline insofar as a policy and institutional framework for mainstreaming biodiversity into territorial planning already exists. The project is about biodiversity conservation, and the planned interventions will ensure that damaging production sector practices are avoided in the most biodiversity sensitive areas, and that impacts are reduced, mitigated and offset as necessary elsewhere, thus reducing pressures on biodiversity, and enhancing conservation. The project will also be making the case for all stakeholders to view biodiversity protection as making economic as well as ecological sense. Recognition of the economic value of biodiversity together with the ownership that will be achieved in the project's products will lead to a protective stance from the relevant production sectors, and this will augur well for the sustainability of the project's products, services and benefits. Financial sustainability will be ensured through the review and realignment of public expenditure and the brokering of additional public and private funding towards biodiversity mainstreaming. The key gaps in the current process are capacity and coordination among all the spheres of Government to recognize the values of biodiversity and the ecosystem services it provides, and the

application of this recognition in the land use allocation and permitting process. These are gaps which this project is designed to address.

Replication will be achieved through the direct replication and scaling up of sustainable practices and methods demonstrated by the project. The selection of districts in two different major ecological regions<sup>15</sup> has been made so as to cover as much diversity as possible, and generate a diverse set of practical experiences on mainstreaming biodiversity conservation into economic activities outside protected areas. A series of workshops will be held as part of the project to trigger replication in additional districts including replicating the experience in those districts that will be developing LUPs during the project period. The project will also develop a package of modifications in land, forest and environmental legislation that will not only apply to the districts the project will be covering, but will have national coverage establishing the enabling environment for the project initiatives to replicated in all other districts of Moldova.

# Stakeholder Analysis

Stakeholders	Decision Liver Liver Control of the
Ministry of	Project Implementation Role
Environment.	The Ministry is responsible for the development of environmental legislation, action plans and
	norms and standards. It provides state control on the quality of the environment. Under the
including the State	Ministry, the State Ecological Inspectorate operates on the district level to enforce environmental
Ecological Inspectorate	legislation. The Ministry will review and draft policy and legislation relevant to mainstreaming
Inspectorate	biodiversity in territorial planning and preparing minimal standards for biodiversity conservation.
	Further, the Ministry will identify appropriate procedures for compliance monitoring and
	enforcement of the territorial plans and enforcement of legislation with regard to biodiversity. The
	Ministry will also facilitate functioning of the project management team (PMT), especially in
	regard to liaison with government authorities from different sectors. Ministry will ensure
	coordination with other relevant projects and initiatives and will be active in monitoring of the
34111	PMT activities.
Ministry of Agriculture	The Ministry of Agriculture is responsible for development and implementation of national
and Food Industry	agricultural policy and legislation. The Ministry is directly responsible for promoting among
including the Agency	landowners environmentally friendly-practices, including pasture management. The Ministry will
for Interventions and	play an active role in project implementation particularly in policy formulation and mainstreaming
Payments in	biodiversity requirements. At rayon level the Ministry has its subdivisions including agricultural
Agriculture	extension officers that will support project activities. The Ministry will also support the project by
	politically influencing agricultural practice e.g. promoting among landowners environmentally
N. C. C. D.	friendly practices.
Ministry of Regional	The Ministry will review any spatial and land-use plan produced by the project, so that biodiversity
Development and Construction	aspects are and will further be integrated into their policy. It will promote consideration of
Construction	biodiversity in the state policy and legislative and regulatory framework in planning and land use
	planning, architecture, urbanism, construction, production of construction materials, housing and
Agency for Land	regional development.
Relations and	The Agency is the main responsible institution for implementing state programs on land
Cadaster	improvements. It will help in improving legal frame (namely Land Code), including creating a
Cadastei	joint working group for development of LUPs. With inputs from the project, they will provide
	assistance in ensuring congruence between land and soil regimes, and incorporating
	data/information related to biodiversity into their information systems (focusing on the 2 selected
Agency Moldsilva	districts).
rigency monustra	Moldsilva will be an important partner for the implementation of reforestation activities on degraded
	lands, as well as for their related duties in forest resources management. The agency will provide,
	through its state forestry units, technical assistance, co-financing and support in implementing
	project components. Also, Moldsilva will help build cooperation with local communities where it
	operates on forest extension. It will also help review legal or regulatory products related to land use, so that forest biodiversity is covered.
Local Public	District and village/community public administrations beauty in the state of the st
Authorities (LPAs) at	District and village/community public administrations have a significant role to play in component 2 of the project. Their responsibilities are to promote congretion among all leading to the project.
the district and	of the project. Their responsibilities are to promote cooperation among all land users and owners, to implement biodiversity-friendly practices, participate in conflict resolution, and promote
village/community	training and educational activities. The district authorities will be responsible for land use
	and coccational activities. The district authornies will be responsible for land use

<sup>&</sup>lt;sup>15</sup> Soroca, which in the north, is part of Euro-Asian region (forest-steppe areas); and Stefan Voda, which is in the south, is part of Mediterranean region (areas with xerophytic habitats and species).

Stakeholders	Project Implementation Role
levels	planning
	planning.  All NGOs will participate in stakeholder consultation and training as relevant. EMM is committed to restoring the natural balance of the environment in Moldova and will assist in the promotion and awareness raising of project activities. BIOTICA Ecological Society promotes the establishment of the National Ecological Network of Moldova, among other environmental objectives, and will be involved in the development of policies and regulations for mainstreaming biodiversity into Land Use Planning. It will also assist in the development of an annotated list of threatened species and habitats. It will provide advice on identification of areas for reforestation of degraded communal land. REC-Moldova has as an objective the promotion of cooperation between NGOs, private sector and other organizations, with government institutions in the domain of environmental protection and will be important during the project implementation in facilitating and participating in public debates on policies and regulations. NGO BIOS is a leader in the field of environmental protection, sustainable agriculture and community development in Moldova and will be involved in the development of minimal standards for biodiversity conservation in most pressing land-use practices, among other activities. CALM represents the biggest local public association of local communities in Moldova and one of its main objectives is to contribute to promoting successful models and practices in local and regional development, inter-municipal cooperation, provision of public services and good local governance. ACSA's mission is sustainable development of rural communities through setting-up and developing a professional network of information, consultancy and training service providers for agricultural producers and rural entrepreneurs. Both CALM and ACSA will assist the Government of Moldova and the project in amending the Land Code and introducing requirements for identification and incorporation of biodiversity in land-use plans. ACSA will also a
Private sector: Farmer Associations, in particular National Farmers Federation Moldova (NFFM) and Republican Union of Agricultural Producers' Associations (APA)	grazing and hay-making. ProRuralInvest NGO contributes to multidimensional and ongoing development of the rural sector through promotion of rural business development and providing assistance to rural entrepreneurs. It will assist in developing and testing technologies to demonstrate biodiversity-compatible practices for pilot areas in steppes and meadows.  The private sector is regarded as one of the key partners of the project by participating in making a business case for biodiversity conservation through piloting of biodiversity-compatible land use models on private lands in line with the developed spatial plans. Rural population, farmers and farming associations are the most important stakeholders for Component 2. These stakeholders

# Coordination with Other Initiatives

Compared to the PIF, coordination with related initiatives has been further elaborated. The project will cooperate with a number of ongoing projects/ initiatives in the country, which are close to the project goals and locations. To leverage synergies, ensure efficiency in implementing the projects, and information exchange, the project will use existing coordination mechanisms that have been operating successfully in-country, such as the regular meetings convened by the biodiversity focal point in the Ministry of Environment, regular cluster meetings convened by UNDP, joint representatives from relevant institutions in the projects' steering committees, active participation in technical teams and public

events organized by other GEF projects. The studies conducted and information gathered under the other projects will be integrated into project implementation. The proposed project adds value to a number of related initiatives as set out below:

The EU/ UNDP project "Clima East: Sustainable management of pastures and community forests in Moldova's first National Park Orhei to demonstrate climate change mitigation and adaptation benefits and dividends for local communities" is a part of a broader EU financing package called 'Clima East: Supporting Climate Change Mitigation and Adaptation in Eastern Neighborhood Partnership Countries and Russia' (2013-2016) in cooperation with the partner countries Armenia, Azerbaijan, Belarus, Georgia, Moldova, Russian Federation and Ukraine. The Clima East Moldova project aims to demonstrate a natural resource management model in the pastures and forests of Moldova which increases ecosystems' capacity to sequester carbon under pending climate risks, while at the same time retaining biodiversity and economic values. The project targets the pastures and forest degraded lands located in the Orhei National Park area (33,792.09 ha) and its buffer zone (which was established in the framework of the UNDP/GEF project "Improving coverage and management effectiveness of the Protected Area System in Moldova"). The project is supporting development of innovative pasture and community forest management systems on the whole territory of the park, including rehabilitation of 500 ha of pastures and reforestation of 150 ha of eroded and non-productive lands. The project will help avert further deterioration of natural resources (biodiversity, land, forest), sequester carbon and reduce the emission of greenhouse gases, improve local pasture and forestry resources, promote better understanding of problems related to climate change impacts and contribute to local/regional sustainable development. This UNDP managed project is very closely linked to Component 2 of the proposed project focusing on improving pasture management. Best practices in biodiversity-compatible land uses tested in the Clima East project will be replicated in the pilot area of the proposed project. Also, the Policy component of the Clima East project will develop financial and other incentive measures for supporting sustainable pasture management and maintaining eco-system based values, which will provide useful lessons for the pilot activities of the proposed project.

The WB/GEF Project "Agriculture Competiveness" is contributing to the enhancement of agro-food sector competiveness by supporting the modernization of food safety and quality management systems, facilitating market access and enhancing agro-ecosystem resilience. Under its component "Food Quality and Safety Management System" it focuses on the modernization of the public system of quality management and food safety in compliance with food safety. Under Component "Access to Markets" support is provided to activities aimed at enhancing the degree of commercialization of selected horticultural value chains with an emphasis on sustainable farming and post-harvesting technologies and practices. The Component "Soil Conservation and Climate Resilience" support incentives to farmers for the introduction of agro-environmental practices aimed at reducing land degradation and mainstreaming coping and adaptation techniques for increased farm-level climate resilience. This project is closely linked to Component 2 of the proposed project focusing on improving land degradation issues on farm land where proposed project focus will be targeted towards biodiversity outputs.

The UNDP/GEF Project "National Biodiversity Planning to Support the Implementation of the CBD 2011 – 2020 Strategic Plan in Moldova" – the overall goal of the project was to integrate Moldova's obligations under the Convention on Biological Diversity (CBD) into its national development and sectoral planning frameworks through a renewed and participative 'biodiversity planning' and strategizing process, in a manner that is in line with the global guidance contained in the CBD's Strategic Plan for 2011 – 2020 (addressing so called Aichi targets). While the project focused on updating all aspects of the National Biodiversity Strategy and Action Plan from 2001, special emphasis was placed on (i) assessing and integrating ecosystem services through economic valuation and (ii) mainstreaming biodiversity into development policies, plans and practices and into sectoral plans and strategies. Among the sectors that the project will address are agriculture, forestry, livestock and fishing. The areas of

cooperation lie in the sectoral approach to biodiversity conservation that the NBSAP project tackled, and also data/ information from the economic value of ecosystem services in the Republic of Moldova.

The EU-funded regional project "European neighborhood and partnership instrument east countries forest law enforcement and governance II program" (2013-2016) aims at putting in place improved forest governance arrangements through the effective implementation of the main priorities set out in the St. Petersburg Ministerial Declaration and Indicative Plan of Actions for the Europe and North Asia Forest Law Enforcement and Governance (ENA-FLEG) process. The Program supports selected pilot activities to be implemented with the active involvement of governments, civil society and the private sector. Most activities will be at a country level, complemented by strategically targeted sub-regional and regional actions. The Program is supported by the European Commission and other donors contributing to a special multi-donor trust fund administered by the World Bank (WB), working in partnership with the International Union for Conservation of Nature and Natural Resources (IUCN) and the World Wide Fund for Nature (WWF). There are a number of activities that the project can cooperate with, mainly in terms of promoting good governance in local forests, forest management planning, improving the legislative framework (and also harmonizing it with EU/ international frameworks), communication activities, etc.

A GEF/UNDP SGP project called "Formation of the National Ecological Network (NEN) – contribution to the local and national level" (2014-2015) intends to support local communities of Talmaza, Popeasca and Ciobruciu (all in the Stefan Voda District) in building forest nurseries in order to ensure the establishment of forest plantations as ecological corridors, anti-erosion and diversification of the use of biological resources. All these activities will build capacities for the existing Ramsar Site "Lower Dniester". It is envisaged that the project will deliver to the Ministry of Environment a guide on the assessment of NEN core areas, reconstruction and plantation within the NEN corridors, creation of forestry nurseries for NEN enhancement in the future, building capacities for local communities and raising awareness among local population. The two projects will cooperate on establishment of ecological corridors through reforestation activities. The Talmaza locality is a focus of both projects and close coordination will be maintained to avoid overlap.

### PROJECT RESULTS FRAMEWORK

3

This project will contribute to achieving the following Country Programme Outcome: Outcome 3.1 Improved environmental management in significantly increased compliance with international and regional standards

Country Programme Outcome Indicators: Environmental considerations integrated into sectoral policies or sector specific environment actions plans/policy documents in place Applicable GEF Strategic Objective and Program: Strategic Objective 2 - To mainstream biodiversity in production landscapes/ seascapes and sectors Applicable GEF Expected Outcomes: Conservation and sustainable use of biodiversity incorporated in the productive landscape and seascape Primary applicable Key Environment and Sustainable Development Key Result Area: 1. Mainstreaming environment and energy

Applicable GEF Outcome Indicators: By project end, 2 districts (approx. 204,000 ha) have biodiversity-enhanced land use plans in place, and an additional 33 districts (approx. 3.180 million hectares) are indirectly influenced through transfer of lessons and experience of the project

Objective: To mainstream biodiversity conservation priorities into Moldova's territorial planning policies and landuse practices  Component 1. Land use planning and enforcement system addresses biodiversity loss	Land area for which DSPs and LUPs, that deliver biodiversity benefits outside PAs are developed and under implementation  Number of sectoral regulations and methodological guidelines that facilitate the incorporation of biodiversity conservation requirements into planning and management of land use outside protected areas (to be tracked in more detail through the SO 2 Tracking Tool)  Recorded cases of illegal logging  Observance of grazing norms (especially those related to stocking rates and nonuse of pastures in Spring) by local land users in all pilot sites	0 ha  Soroca: 17 cases in 2013 Stefan Voda: 14 cases in 2013 0% of land users observing norms in 2013	Approximately 204,000 ha (2 districts) Additional 3,180 million hectares (33 districts) are indirectly influenced by project approach  Reduced by half  Reduced by half  So% of land users observing norms	Approved DSPs and LUPs for 2 districts; project reports, final external evaluation  Approved documents printed for circulation to relevant departments of MoE. Moldsilva, and MRDC  Internal documents of MoE. Moldsilva, and MRDC  MRDC  MRDC  MRDC	MoE, Moldsilva and MRDC maintain support for project strategy and remain interested in transferring lessons to additional districts  Authorities from districts and localities other than the pilot districts are receptive to applying the project approach in their districts  Amendments and methodological recommendation for economic land use activities receive political support  Ministry of Justice accepts project recommendations on a more effective system of penalties for malfeasance to approved DSPs. LUPs, GMPs and FMPs
	Number of government staff trained in collection of biodiversity information	0	At least 20 officers	Trainer reports; analysis of training	

<sup>&</sup>lt;sup>16</sup> The target timeframe for all indicators is by project end i.e., 2018, unless otherwise stated.

<sup>1.</sup> Regulation on identification of vulnerable species, habitats and ecosystem goods and services during land use planning; 2. Amendment to the 1991 Land Code introducing requirements for identification and incorporation of biodiversity outside PAs in DSPs and LUPs; 3. Minimal standards for biodiversity conservation in pasture/livestock and hay-field management, arable farming, forest use, fishing and water-based recreation introduced in relevant sectoral legislation.

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Amex 5 for Risk Logs	evaluation forms	uses Field Survey, photo	ows:   documentation, Final   level approval process of	External Evaluation	FMPs proceeds smoothly		Field Survey, data	collected by MoE and   make species/ habitat data	_	. 5	based on feedback system for biodiversity	from land users; Final   conservation	External Evaluation	Climate change does not lead	for Annual budgets of to catastrophic impacts	eaming in   LPAs in pilot areas	hv 10% 18
		0 ha Sustainable land	demonstrated as follows:	Hay making: 100 ha	Grazing: 2,484 ha	Forestry: 14,099 ha	See table below for See table below for targets	baseline		0 100%					None Budget allocations for	biodiversity mainstreaming in	pilot areas increased by 10% 18
	and integration of this into the development and implementation of land use plans (Note: A more detailed tracking of capacity development impacts at the systemic, institutional and individual levels will be based on the UNDP Capacity Development Scorecard)	Increase in land area outside protected	areas where threats to biodiversity from	economic activities are controlled				PAs improves at pilot sites (see table	below for details on indicator species)*	% of local land-users in 2 districts who	are conducting economic activities in	ecologically sensitive areas and receive	in-field training and technical assistance	with implementing modified practices	Increase in public finance for	biodiversity mainstreaming in land use	planning in pilot areas
		Component 2.	Conservation and	Sustainable Use of	Biodiversity on	Communal Land											

\* Status of indicator species in the pilot areas

Species name	Distribution / habitat	Protection in	Protection in Abundance in Moldova	Indicators for target regions:	et regions:
(English/Latin)		Moldova		Baseline	Target
Feather grass (Stipa pennata)	Widely distributed in steppes or forest-steppe areas of southeastern Europe, Russia. Kazakhstan and Western Siberia.	Not included in the National Red Book	Typically for steppes and forest-steppe areas in northern Moldova (such as Balti steppe, steppe-forest oak type, including suitable habitats of Dniester riverbanks) (Shabanova G., 2012). A rare species occurring in several districts (Rezina, Rascani, Balti, Soroca, Ungheni).	3% of the total plant composition per 100 m3	10% of the total plant composition per 100 m3
Feather grass (Stipa ucrainica)	Endemic to the Pontic region (East Romania, Moldova, South Ukraine, southern part of European Russia (including the foothills of North Caucasus), Northern Bulgaria).	Not included in the National Red Book	Rarely occurring and locally abundant in protected 7% of the total xerophyte communities of steppe forest vegetation with presence of downy oak (mainly in Bugeac steppe plains of south-west Moldova) (Shabanova G., 2012).	7% of the total plant composition per 100 m3	20% of the total plant composition per 100 m3
Com Crake (Crex	From Britain and Ireland east through Europe to central Siberia (its historic range is much larger and covered large areas in Eurasia)	Endangered, National Red Book	Population is in decline (Munteanu A., Cuzari T., Zubcov N., 2006). According to Institute of Zoology there can be 110-250 pairs in Moldova to nest at the moment (2013/2014); on an average, there can be 1-2	<10 breeding males.	>40 breeding males.

<sup>18</sup> The target to be re-confirmed at the inception phase Approved version

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	í		ì	
	١			

>10 individuals

<5 individuals

According to Institute of Zoology, there can be I animal per 10 km of suitable habitat (river bank,

Endangered, National Red Book

Widely distributed: across Europe and

Otter

(Lutra lutra) European

parts of Asia and Africa

comm., 2014).

Red

National Book (2015)

the

lake/pond, streams or river tributary, even in forests

where it finds shelter and food)

>3 colonies

0 colonies

According to Institute of Zoology there can be around 20 colonies in the country for the moment (Munteanu

A., pers. Comm., 2014).

>5 pairs

<2 pairs

It does not breed/nest in Moldova for the moment (Munteanu A., pers. comm., 2014). It can rarely be

per suitable habitat (pastureland,

ha

pairs per 10

meadows).

Endangered, National Red Book

Migratory species: breeds from northern Europe across Asia; winters

Spotted (Aquila

Greater

Eagle clanga)

in south-eastern Europe, north-eastern Africa, Middle East and southern

observed during migration period, and only for a short

time.

Vulnerable, National

Red Book

Europe (range is divided by the

Asia.

Ground

Carpathian Mountains).

(Spermophilus European Squirrel

Indicators for target regions: Baseline Target

Abundance in Moldova

.5

Protection

Distribution / habitat

пат

(English/Latin)

Species

Moldova

>5 colonies

0 colonies

More abundant than the European squirrel and according to Institute of Zoology there can be around 100 colonies for the moment (Munteanu A., pers.

Listed to be included in the 3<sup>rd</sup> edition of

Eastern Europe (Poland, Romania, Russia, Belarus, Moldova and

Ground

Speckled Squirrel

citellus)

Ukraine). Russia,

(Spermophilus

susficus)

### TOTAL BUDGET AND WORK PLAN

Award ID:	00081126	Project ID(s):	00090554
Award Title:	Country Name Project T	itle: Mainstreaming B	Country Name Project Title: Mainstreaming Biodiversity Conservation into Moldova's Territorial Planning Policies and Land-Use Practices
Business Unit:	MDA10		
Project Title:	Country Name Project 7	itle: Mainstreaming B	Country Name Project Title: Mainstreaming Biodiversity Conservation into Moldova's Territorial Planning Policies and Land-Use Practices
PIMS no.	5259		
Implementing Partner (Executing Agency)	Ministry of Environment	nt	

GEF Outcome/Atlas Activity	Responsible Party/ Implementing Agent	Fund ID	Donor Name	Atlas Budgetary Account Code	ATLAS Budget Description	Year 1 (US\$)	Year 2 (US\$)	Year 3 (US\$)	Year 4 (US\$)	Total (US\$)	Budget Note:
				71300	Local Consultants	26000	32000	8000	8000	74000	_
				71600	Travel	2000	2000	0001	1000	0009	2
OUTCOME 1: Land use				72100	Contractual services-companies	0	0	5000	5000	10000	ю
planning and enforcement system addresses biodiversity loss	NEX	62000	GEF	74200	Audio Visual&Print Prod Costs	0	3000	3000	4000	10000	5
				75700	Trainings and Workshops	2000	3000	3000	2000	10000	9
	_ ==				Total Outcome 1	30000	40000	20000	20000	110000	
				71200	International Consultants	0	20000	0	20000	40000	7
				71300	Local Consultants	13000	17000	00091	12500	28500	8
OUTCOME 2:				71600	Travel	40000	3000	2000	2000	47000	6
Conservation and Sustainable Use of Biodiversity on Communal	NEX	62000	GEF	72100	Contractual services-companies	80000	000051	00009	0	290000	01
Land				72500	Supplies	1000	200	0	200	2000	11
				72600	Grants	84000	140000	28000	28000	280000	12
				74100	Professional Services	0	0	0	2000	2000	13

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14	15		16	61	16	17	18				
20000	19231	761731	50400	36773	33600	3173	3227	87173	40000	127173	998904
0009	0009	80000	12600	9198	8400	800	806	21798	10006	31804	131804
0009	0009	118000	12600	5616	8400	008	807	21795	10007	31802	169802
4000	2231	336731	12600	5616	8400	873	807	21795	08001	31875	408606
4000	2000	227000	12600	9185	8400	700	807	21785	7066	31692	288692
Audio Visual&Print Prod Costs	Trainings and Workshops	Total Outcome 2	Contractual Services - Individ	UNDP Cost recovery Charges-Bills	Contractual Services - Individ	Communic & Audio Visual Equip	Audio Visual&Print Prod Costs	Sub-total management cost GEF	Sub-total management cost UNDP	Total Management	AL.
74200	75700		71400	74599	71400	72400	74200				PROJECT TOTAL
			GEF	GEF	UNDP	UNDP	UNDP				
			62000	62000	04000	04000	04000				
						NEX					
			Project management unit								

GEF         Year 1         Year 2         Year 3         Year 4         Total           GEF         Total         Year 3         Year 3         Year 4         Total           UNDP         MoE         MoE<		Amount	Amount	Amount	Amount	
in kind)  Voda District  District  L		Year 1	Year 2	Year 3	Year 4	Total
in kind) liva Voda District  District  L	GEF	278.785	398,526	159,795	121,798	958,904
in kind) Ilva Voda District District	UNDP					40,000
	MoE					460,000
	MoE (in kind)					100,000
	Moldsilva					4,200,000
	Stefan Voda District					30,000
	Soroca District					20,000
	TOTAL					5,808,904

**Budget notes** (see Annex 7 for Terms of Reference for project consultants):

1. Legal expert responsible for activities under Output 1.1 and Output 1.4 - 350\$ \*50 weeks=17,500\$. Biodiversity and Ecosystem Management Expert - for activities under Output 1.2, Output 1.3 and Output 1.4 - 350\$ \*80 weeks=28,000\$. Forestry Expert responsible for Species/habitat data input into forest management plans (Output) - 350\$ \*20 weeks=7,000\$; Economy and Finance expert for completion the activities under Output 1.4 - 3508\*16 weeks = 5600\$. Communication and PR consultant - 350\$ \* 35 weeks = 11900\$. Translation costs - 4000\$

2. Travel for local consultants and project team (20000 km \* 0.30) - 6000\$

3. Costs related to: designing and implementation of the training programme for promoting integrated land and biodiversity/ecosystem planning (design the programme - 2500\$; implementation of the programme 6 trainings \*1250\$ = 7500\$)

5. Costs related to publication of information materials, brochures, analytical and monitoring reports etc.

6. Costs of consultations, round tables and discussions with central/ local authorities and other stakeholders related to the implementation of Output 1.1, Output 1.2 and Output 1.3. Estimated nr. of meetings - 40 \* 250\$=10000\$

7. International evaluation expert for mid-term and the final evaluations - 40000\$ (Consultancy fee 3,750\$ \* 10 weeks=37,500\$; DSA and travel - 2500\$)

8. Local consultant: Mid-term and final evaluation: 8000\$ (\$500\$ \* 12 weeks = 6000\$. Travel and other costs - 2000\$); Economy and Finance expert for assessment of the economic values of biodiversity and ecosystem services, compensatory schemes and incentives development (3508 \* 30 weeks = 10500\$); GIS expert for development of the spatially-based digital decisionmaking system for biodiversity conservation (400\$ \* 65 weeks = 26000\$); Communication and PR consultant - 350\$ \* 40 weeks = 14000\$

9. Cost associated with one week field visit to a neighboring country (e.g. Romania, Hungary) for approx. 20 representatives of key stakeholders to show the best practices and benefits of biodiversity-compatible district spatial (land-use) planning. (20 pers. \* 1750 \$ = 35000\$). Costs associated with local experts and team travel (40000 km \* 0.30 = 120000\$)

10. Costs associated with developing: biodiversity-compatible district spatial plans for 2 districts (2\*70000\$ = 140,000\$) and community land-use plans for 4 selected communities (villages) to consider biodiversity and ecosystem continuity (4\*27500\$ = 110,000\$); grazing management plans for 4 selected communities (7000\$\*4 = 28000\$); pedagogical maps and reforestation schemes in selected pilots (4 corridors \* 500\$ = 2000\$); Forest management plans (768ha \* 13\$/ha = 10000\$)

11 Office supplies

12. Costs of building ecological corridors through reforestation (1600 \$/ha \* 100ha = 160000\$). Restoration/rehabilitation costs for improving pastures/steppes/meadows (1200 \$/ha \* 100 ha = 120000\$) implemented through small grants scheme.

13. Audit costs

14. Costs related to publication of information materials, brochures, analytical and monitoring reports etc.

15. Costs associated with: Land users training in mainstreaming biodiversity in land use practices (10 trainings \* 1250\$ = 12500\$); Inception workshop (5000\$), other meetings (1731\$)

16. 60% of the salary associated costs for project manager and project assistant and shared between UNDP and GEF.

Internet, Phone, Mobile costs

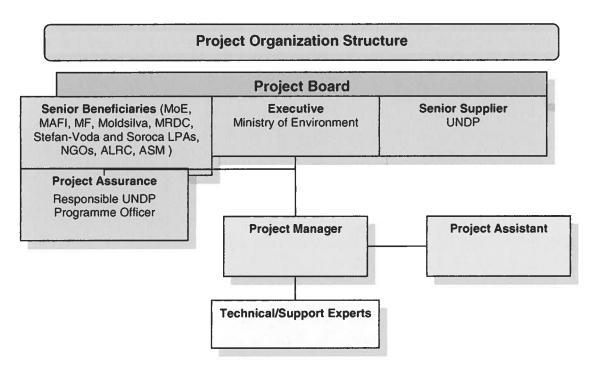
18. Promotional materials to ensure project visibility including for the inception workshop

19. Direct Project Costs

19 Summary table should include all financing of all kinds: GEF financing, cofinancing, cash, in-kind, etc...

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### 5. MANAGEMENT ARRANGEMENTS



The project will establish a Project Board at the inception phase, which will be comprised of representatives of the relevant government institutions, representatives of the main relevant target groups/beneficiaries, including representatives of women's organizations, vulnerable groups and local authorities and representatives of the UNDP Country Office. More specifically, the Project Board will have 11 members representing the following institutions: Ministry of Environment (Senior Executive), Ministry of Regional Development and Construction, Ministry of Agriculture and Food Industry, Ministry of Finance, Agency Moldsilva, Agency for Land Relations and Cadastre, Academy of Science, UNDP Moldova, NGO, District Council of Stefan Voda and District Council of Soroca.

Shall the need be, the project will create technical working groups for improved coordination of the project with ongoing initiatives in the field. In addition, relevant donors shall be invited to the Project Board Meetings as observers.

The Project Board will be responsible for providing general oversight to ensure achievement of results on the primary project outcomes, and making consensus strategic management decisions when guidance is required by the Project Manager, including approval of project plans and revisions, as well as meeting the requirements of the Country Programme Action Plan and Annual Work Plan. The Minister of Environment will be the Chairman of the Project Board. Project Board meetings will be organized by the Project Board as needed, but not less than once every 3 months. Formal minutes shall be prepared and adopted for each meeting of the Board, detailing any proposals made and decisions taken.

Based on the approved annual work plan (AWP), the Project Board may review and approve project quarterly plans when required and authorize any major deviation from these agreed quarterly plans. It is the authority that signs off on the completion of each quarterly plan as well as authorizes the start of the next quarterly plan. It ensures that required resources are committed and arbitrates any conflicts within the project or negotiates a solution to any problems between the project and external bodies. In addition, it approves any delegation of its Project Assurance responsibilities.

In order to ensure UNDP's ultimate accountability, Project Board decisions should be made in accordance with standards that ensure best value for money, fairness, integrity transparency and effective international competition. Project reviews by this group are made at designated decision points during the running of a project or as necessary when raised by the Project Manager. This group is consulted by the Project Manager for decisions when Project Manager tolerances (normally in terms of time and budget) have been exceeded.

The project is nationally executed (NEX), in line with the Standard Basic Assistance Agreement (SBAA, 1992) and the United Nations – Republic of Moldova Partnership Framework and Action Plan 2013 – 2017 signed between UNDP and the Government of Moldova. The Ministry of Environment is the government institution responsible for the project and will act as the Executing Agency (EA).

It will assume overall responsibility for the project implementation, and the timely and verifiable attainment of project objectives and outcomes. It will provide support to, and inputs for, the implementation of all project activities. The Ministry of Environment will nominate a high level official who will serve as the national coordinator for project implementation, who will not be paid from the project funds. Also the Ministry of Environment will provide office space for project implementation and will cover all utility expenses.

UNDP will be the Senior Supplier operating according to the terms specified below. Project Assurance will be provided by the responsible UNDP Programme Officer of the Energy and Environment Cluster, a Programme Associate, and evaluators. They will ensure that objective and independent project oversight is carried out for the purpose of meeting project management targets.

Project Assurance is also the responsibility of each Project Board member, however the role can be delegated. The Project Assurance role supports the Project Board by carrying out objective and independent project oversight and monitoring functions. This role ensures that project management milestones are managed and completed appropriately.

UNDP Moldova will support the Ministry of Environment with implementation of support services according to the Agreement between the Government of Moldova and UNDP for the provision of support services of 27 May 2003, including identification and recruitment of project personnel, identification of training activities and assistance in carrying them out, procurement of goods and services, financial monitoring and reporting, processing of direct payments, supervision of project implementation, monitoring and assistance in project assessment. The Project will be implemented in line with UNDP rules and procedures (http://content.undp.org/go/userguide/results).

To improve the synergies between projects in the area of biodiversity conservation and in line with the GEF and UNDP programmatic approach, a Project Management Team (PMT) will be managing the project as part of a larger relevant programme. The PMT will be staffed with a Project Manager and Financial/ Administrative Assistant, and will assist the Ministry of Environment as well as other responsible institutions in the implementation of the project at the national level. The PMT will ensure results-based project management and successful implementation of the project within 48 months, close monitoring and evaluation of project progress, observance of procedures, transparency and efficient use of funds, quality of works, and involvement of local and national stakeholders and beneficiary communities in the decision-making processes. The PMT office will preferably be physically located within the Ministry of Environment premises.

### 6. MONITORING FRAMEWORK AND EVALUATION

The project team and the UNDP Country Office supported by the UNDP Regional Technical Advisor for Biodiversity Conservation for Europe and CIS will be responsible for project monitoring and evaluation conducted in accordance with established UNDP and GEF procedures. The Project Results Framework

provides performance and impact indicators for project implementation, along with their corresponding means of verification. In addition, the GEF SO-2 Tracking Tool will also be used to track project impact (SO-2 tracking tool is submitted as a separate file). UNDP's Environmental and Social Screening tool will also be used (see Annex 8). The following sections outline the principle components of the M&E plan and indicative cost estimates related to M&E activities.

### Project start

A Project Inception Workshop will be held within the first 2 months of project start with those with assigned roles in the project organization structure, UNDP country office and where appropriate/feasible regional technical policy and programme advisors as well as other stakeholders. The Inception Workshop is crucial to building ownership for the project results and to plan the first year annual work plan. The Inception Workshop should address a number of key issues including:

- Assist all partners to fully understand and take ownership of the project. Detail the roles, support
  services and complementary responsibilities of UNDP CO and RCU staff vis-à-vis the project team.
  Discuss the roles, functions, and responsibilities within the project's decision-making structures,
  including reporting and communication lines, and conflict resolution mechanisms.
- Based on the project results framework and the relevant GEF Tracking Tool if appropriate, finalize
  the first annual work plan. Review and agree on the indicators, targets and their means of verification,
  and recheck assumptions and risks.
- Provide a detailed overview of reporting, monitoring and evaluation (M&E) requirements. The Monitoring and Evaluation work plan and budget should be agreed and scheduled.
- Discuss financial reporting procedures and obligations.
- Plan and schedule Project Board meetings. Roles and responsibilities of all project organization structures should be clarified and meetings planned. The first Project Board meeting should be held within the first 12 months following the inception workshop.

An Inception Workshop report is a key reference document and must be prepared and shared with participants to formalize various agreements and plans decided during the meeting.

### Quarterly

- Progress made will be reported on a quarterly basis to the Project Board and will be recorded in the UNDP Enhanced Results Based Management Platform.
- Based on the initial risk analysis submitted, the risk log will be regularly updated in ATLAS. An
  Issue Log will be activated in Atlas and updated by the Project Manager to facilitate tracking and
  resolution of potential problems or requests for change.

### Annually

Annual Project Review/Project Implementation Reports (APR/PIR): This key report is prepared to
monitor progress made since project start and in particular for the previous reporting period (30 June
to 1 July). The APR/PIR combines both UNDP and GEF reporting requirements.

The APR/PIR includes, but is not limited to, reporting on the following:

- Progress made toward project objective and project outcomes each with indicators, baseline data and end-of-project targets (cumulative)
- Project outputs delivered per project outcome (annual).
- Lesson learned/good practice.
- AWP and other expenditure reports

- Risk and adaptive management
- ATLAS QPR
- Portfolio level indicators (i.e. GEF focal area tracking tools) are used by most focal areas on an annual basis as well.

### Periodic Monitoring through site visits

UNDP CO and the UNDP RCU will conduct visits to project sites based on the agreed schedule in the project's Inception Report/Annual Work Plan to assess first hand project progress. Other members of the Project Board may also join these visits. A Field Visit Report/BTOR will be prepared by the CO and UNDP RCU and will be circulated no less than one month after the visit to the project team and Project Board members.

### Mid-term of project cycle

The project will undergo an independent Mid-Term Evaluation at the mid-point of project implementation (by the end of 2016). The Mid-Term Evaluation will determine progress being made toward the achievement of outcomes and will identify course correction if needed. It will focus on the effectiveness, efficiency and timeliness of project implementation; will highlight issues requiring decisions and actions; and will present initial lessons learned about project design, implementation and management. Findings of this review will be incorporated as recommendations for enhanced implementation during the final half of the project's term. The organization, terms of reference and timing of the mid-term evaluation will be decided after consultation between the parties to the project document. The Terms of Reference for this Mid-term evaluation will be prepared by the UNDP CO based on guidance from the Regional Coordinating Unit and UNDP-GEF. The management response and the evaluation will be uploaded to UNDP corporate systems, in particular the UNDP Evaluation Office Evaluation Resource Center (ERC). The relevant GEF Focal Area Tracking Tools will also be completed during the mid-term evaluation cycle.

### **End of Project**

An independent Final Evaluation will take place three months prior to the final Project Board meeting and will be undertaken in accordance with UNDP and GEF guidance. The final evaluation will focus on the delivery of the project's results as initially planned (and as corrected after the mid-term evaluation, if any such correction took place). The final evaluation will look at impact and sustainability of results, including the contribution to capacity development and the achievement of global environmental benefits/goals. The Terms of Reference for this evaluation will be prepared by the UNDP CO based on guidance from the Regional Coordinating Unit and UNDP-GEF.

The Terminal Evaluation should also provide recommendations for follow-up activities and requires a management response which should be uploaded to PIMS and to the <u>UNDP Evaluation Office Evaluation Resource Center (ERC)</u>. The relevant GEF Focal Area Tracking Tools will also be completed during the final evaluation.

During the last three months, the project team will prepare the Project Terminal Report. This comprehensive report will summarize the results achieved (objectives, outcomes, outputs), lessons learned, problems met and areas where results may not have been achieved. It will also lay out recommendations for any further steps that may need to be taken to ensure sustainability and replicability of the project's results.

### **Audit Arrangements**

The Audit will be conducted in accordance with the established UNDP procedures set out in the Programming and Finance manuals by the legally recognized auditor.

### Learning and knowledge sharing

Results from the project will be disseminated within and beyond the project intervention zone through existing information sharing networks and forums. The project will identify and participate, as relevant and appropriate, in scientific, policy-based and/or any other networks, which may be of benefit to project implementation though lessons learned. The project will identify, analyze, and share lessons learned that might be beneficial in the design and implementation of similar future projects. Finally, there will be a two-way flow of information between this project and other projects of a similar focus.

### Communications and visibility requirements

Full compliance will be maintained with UNDP's Branding Guidelines. These can be accessed at <a href="http://intra.undp.org/coa/branding.shtml">http://intra.undp.org/coa/branding.shtml</a>, and specific guidelines on UNDP logo use can be accessed at: <a href="http://intra.undp.org/branding/useOfLogo.html">http://intra.undp.org/branding/useOfLogo.html</a>. Amongst other things, these guidelines describe when and how the UNDP logo needs to be used, as well as how the logos of donors to UNDP projects needs to be used. For the avoidance of any doubt, when logo use is required, the UNDP logo needs to be used alongside the GEF logo. The GEF logo can be accessed at: <a href="http://www.thegef.org/gef/GEF\_logo">http://www.thegef.org/gef/GEF\_logo</a>. The UNDP logo can be accessed at <a href="http://intra.undp.org/coa/branding.shtml">http://intra.undp.org/coa/branding.shtml</a>.

Full compliance will also be maintained with the GEF's Communication and Visibility Guidelines (the "GEF Guidelines"). The **GEF** Guidelines accessed can be http://www.thegef.org/gef/sites/thegef.org/files/documents/C.40.08 Branding the GEF%20final 0.pdf. Amongst other things, the GEF Guidelines describe when and how the GEF logo needs to be used in project publications, vehicles, supplies and other project equipment. The GEF Guidelines also describe other GEF promotional requirements regarding press releases, press conferences, press visits, visits by Government officials, productions and other promotional items. Where other agencies and project partners have provided support through co-financing, their branding policies and requirements should be similarly applied.

Table 4. M& E work plan and budget

Type of M&E activity	Responsible Parties	Budget (US\$) Excluding project team staff time	Time frame
Inception Workshop (IW)	Project Manager Ministry of Environment, UNDP, UNDP-GEF	5,000	Within first two months of project start up
Inception Report	Project Team UNDP CO, UNDP-GEF	None	Immediately following IW
Measurement of Means of Verification for Project Purpose Indicators	Project Manager will oversee the hiring of specific studies and institutions, and delegate responsibilities to relevant team members	To be finalized in Inception Phase and Workshop.	Start, mid and end of project
Annual Measurement of Means of Verification for Project Progress and Performance	Oversight by Project GEF Technical Advisor and Project Manager Measurements by regional field officers and local IAs	To be determined as part of the Annual Work Plan's preparation.	Annually prior to APR/PIR and to the definition of annual work plans
PIR	Project Team UNDP CO UNDP-GEF	None	Annually
Project board meetings	Project Manager and team	None	Following IW and thereafter.
Technical and periodic status reports	Project team Hired consultants as needed	3,000	TBD by Project team and UNDP-CO
Mid-term External Evaluation	Project team UNDP CO UNDP-GEF RCU External Consultants (evaluation team)	25.000	At the mid-point of project implementation.
Final External Evaluation	Project team UNDP CO UNDP-GEF RCU External Consultants (evaluation team)	25,000	At least three months before the end of project implementation

Type of M&E activity	Responsible Parties	Budget (US\$) Excluding project team staff time	Time frame
Terminal Report	Project team UNDP CO UNDP-GEF RCU External Consultants (evaluation team)	None	At least two months before the end of the project implementation
Audit	UNDP-CO Project team	5,000	At least once during project lifetime
Visits to field sites (UNDP staff travel costs to be	UNDP-CO, UNDP-GEF RCU Government representatives	None	Yearly average one visit per year
charged to IA fees) TOTAL (indicative) COST (Excluding project and UNI	DP staff time costs)	63,000	

### 7. LEGAL CONTEXT

This document together with the CPAP signed by the Government and UNDP which is incorporated by reference constitute together a Project Document as referred to in the SBAA and all CPAP provisions apply to this document.

Consistent with the Article III of the Standard Basic Assistance Agreement, the responsibility for the safety and security of the implementing partner and its personnel and property, and of UNDP's property in the implementing partner's custody, rests with the implementing partner.

The implementing partner shall:

- put in place an appropriate security plan and maintain the security plan, taking into account the security situation in the country where the project is being carried;
- assume all risks and liabilities related to the implementing partner's security, and the full
  implementation of the security plan.

UNDP reserves the right to verify whether such a plan is in place, and to suggest modifications to the plan when necessary. Failure to maintain and implement an appropriate security plan as required hereunder shall be deemed a breach of this agreement.

The implementing partner agrees to undertake all reasonable efforts to ensure that none of the UNDP funds received pursuant to the Project Document are used to provide support to individuals or entities associated with terrorism and that the recipients of any amounts provided by UNDP hereunder do not appear on the list maintained by the Security Council Committee established pursuant to resolution 1267 (1999). The list can be accessed via <a href="http://www.un.org/Docs/sc/committees/1267/1267ListEng.htm">http://www.un.org/Docs/sc/committees/1267/1267ListEng.htm</a>. This provision must be included in all sub-contracts or sub-agreements entered into under this Project Document.

### ANNEX 1: RESPONSE TO COMMENTS FROM GEFSEC, STAP, AND COUNCIL MEMBERS

GEFSEC comments on PIF (April 12, 2013)  6. Is (are) the baseline project(s), including problem(s) that the baseline project(s) seck/s to address, sufficiently described and based on sound data and assumptions?  The project has been designed to build on the baseline activities through increasing improving the country's capacity to coordinate production sector with conservation interventions. The current (baseline) situation is that the activities are being implemented by different ministries and agencies are sound data and assumptions?  While number of related activities by the government ministries and agencies are noted in the relevant section, it is hard to understand how the proposed project and the baseline activities would coordinate and work together. Please further clarify how they are interlinked and coordinated.  Firstly at the national regulatory level the project will assist the Government to establish an enabling environment for mainstreaming biodiversity into land use planning, compliance monitoring and enforcement. This will be accomplished in the main by changing the legislation governing land use allocation and management, emplacing a monitoring system for the spatial plans and developing a system of penalties for malfeasance, but also through capacity building. The main actors in ensuring the establishment of an enabling environment are Ministry of Environment (MoE), Ministry of Agriculture and Food Industry (MAFI), Moldsilva and Ministry of Construction and Regional Development. There is very little coordination between these Ministries and agencies, although they are interlinked in the sense that they all are involved in land-use planning, just not in an integrated manner. The following output was added to the barrier section: "The financial and human resources earmarked for baseline programmes related to regulation of natural resource management and land use planning are deployed and managed by sectoral ministries/departments/segencies (MoE, MAFI, Ministry of Construction and Regional Devel
increasing improving the country's capacity to coordinate production sector with conservation interventions. The current (baseline) situation is that the activities are being implemented by different ministries and agencies across the three spheres of government with little coordination with the result that the agriculture and forestry sector investments as well infrastructure/urban development and recreation activities occur without taking due consideration of biodiversity management needs. Biodiversity conservation is currently erroneously viewed as analogous with protected area management—with little understanding of the need for conservation outside PAs. Land use planning and management is not being implemented in an integrated and coordinated manner with a view to balancing production sector and conservation objectives and needs. The project is designed to address the defict in coordination—precisely to address this problem. Interventions have been planned with this in mind:  Firstly at the <u>national</u> regulatory level the project will assist the Government to establish an enabling environment for mainstreaming biodiversity into land use planning, compliance monitoring and enforcement. This will be accomplished in the main by changing the legislation governing land use allocation and management, emplacing a monitoring system for the spatial plans and developing a system of penalties for malfeasance, but also through capacity building. The main actors in ensuring the establishment of an enabling environment are Ministry of Environment (MoE), Ministry of Agriculture and Food Industry (MAFI), Moldsilva and Ministry of Construction and Regional Development. There is very little coordination between these Ministries and agencies although they are interlinked in the sense that they all are involved in land-use planning, just not in an integrated manner. The following text has been added to the barrier section: "The financial and human resources earmarked for baseline programmes related to regulation of natural re
enforcement." This was further expanded in the description of the activities: "A coordination mechanism (multi-stakeholder committee) that brings together authorities tasked with natural resource and land

<sup>&</sup>lt;sup>20</sup> The terms of reference and membership of this committee, statutory responsibilities, plus periodicity of meetings and other requirements will be elaborated during the PPG stage.

Approved version

Comments	UNDP's Response	Document Reference
	At the district level coordination will be ensured also through the establishment of multi-sectoral stakeholder committees but these will include local stakeholders. The PIF has been revised to better describe the approach: "Integrated Spatial Plans accommodating biodiversity concerns developed for two districts <sup>21</sup> by multi-sectoral stakeholder committees <sup>22</sup> ensuring optimal allocation of land to generate optimal allocation of land to generate development benefits and critical biodiversity benefits in tandem."	
7. Are the components, outcomes and outputs in the project framework (Table B) clear, sound and appropriately detailed?  April 12, 2013	1. The following outcome was adjusted to include the mainstreaming coverage target: "Enhanced conservation security in the two target districts covering 204,000 ha as a result of mainstreaming biodiversity into land use planning for the following species: European Ground Squirrel and Corncrake for Steppe, Greater Spotted Eagle for forests and adjacent wet meadows, European Otter for river and lake ecosystems."	Table B, PIF and Part II, A: Project Overview, Al: Project Description
The project design is largely in line with the PIF that was submitted by the country during GEF-4. The project framework is sufficiently robust but could be improved by considering the following:  1. Include all the key GEBs, including mainstreaming coverage target in the framework.  2. Develop activities to ensure financial sustainability of the initiatives.  3. Further clarify the incentive mechanism for the farmers and other stakeholders to promote BD friendly land use.	The Global Environmental Benefits as detailed on page 9 of the PIF are presented in the framework as follows (outcome in framework in italics): Ensuring stability of a number of threatened and indicator species: indicator grass species (Stipa pennata and S. ucraunica) at natural steppes ["20% reduction in extent of degradation of steppes in target sites in two districts caused by extensive incompatible land uses e.g. overstocking resulting in an increase in status of indicator grass species (Stipa pennata and S. ucrainica)"]; populations of European Ground Squirrel (Spermophilus citellus) and Corncrake (Crex crex) for steppes; Greater Spotted Eagle (Aquila clanga) for forest and adjacent wet meadows; European Otter (Lutra lutra) for river and lake ecosystems ["Enhanced conservation security in the two target districts covering 204,000 ha as a result of mainstreaming biodiversity into land use planning for the following species:  European Ground Squirrel and Corncrake for Steppe Greater Spotted Eagle for forests and adjacent wet meadows  European Otter for river and lake ecosystems."]  In the long-term, taking into account the replication effect, the project will ensure the long-term integrity of fragile ecosystems, including steppes and wet meadows [approx. 30,000 ha], wetlands [approx. 10,000 ha], river floodplains and lakes [approx. 10,000 ha] and forest ecosystems [approx. 30,000 ha] [Enabling policy and institutional environment for mainstreaming BD principles within the State programs and rayon level land use and forest management framework resulting in: Reduction in unsustainable grazing, logging and recreation loads on steppes and wet meadows [approx. 30,000 ha], wetlands [approx. 10,000 ha], river floodplains and lakes [approx. 30,000 ha], wetlands [approx. 10,000 ha], river floodplains and lakes [approx. 10,000 ha], and forest ecosystems [approx. 30,000ha]. The SO-2 Tracking Tool will be used to track the progress.].	
	2. In order to ensure the financial sustainability of the initiatives the following output has been added to Component 2: "Secure additional budgetary finances (from public funds) for BD Mainstreaming	

<sup>&</sup>lt;sup>21</sup> The districts are: Soroca and Stefan Voda and Telenesti. The district selection will be confirmed during the PPG stage. The pilot districts will represent two (northern and southern) of the three major ecological regions – northern, central and southern. These regions also vary in terms of economic conditions. Thus this Component will produce a model of land-use planning that will be adjusted for the ecological, social and economic varieties, with high potential for replicability at the neighbouring districts beyond the project.

beyond the project.

22 The terms of reference and membership of this committee, statutory responsibilities, plus periodicity of meetings and other requirements will be elaborated during the PPG stage.

Approved version

Comments	UNDP's Response	Deference
		Reference
	initiatives and align existing financial contributions in the forestry,	,
	agricultural and rangeland sectors to support BD-friendly practices in	i
	the two districts:	
	Brokerage of public finance resources for BD mainstreaming initiatives	I
	Re-alignment of existing financial streams".	
	In the description of the activities the following was added: "Further, to	
	build the business case for increasing resources flows, valuation will be undertaken of costs/ benefits of different production systems and	
	the new BD-friendly practices within the selected landscapes and their	1
	benefits to biodiversity, ecosystem functioning and livelihoods. This	
	information will be used by selected local governments to broker	
	public and private resources for increased funding towards BD	
	Mainstreaming. The process of increased funding allocation towards	
	BD Mainstreaming by the project will also involve a process of review	
	and alignment of existing funding to the identified production sectors:	
	Public Expenditure Reviews of the agricultural, forestry and rangeland	
	sectors in the two districts will be undertaken, negative spend will be	
	identified and reduced, and budgets realigned to finance for example	
	the destocking of rangeland, rehabilitation of forests. For both new and	
	existing (realigned) funding sources, the project will develop resource distribution criteria to ensure the most effective and efficient	
	application of scare resources and that adequate incentives are	
	provided for landowners/managers to make the move towards BD-	
	friendly practices." It is believed that if the incentives are right, the	
	private sector will engage in the initiatives. With increased funding	
	towards biodiversity mainstreaming and targeted to the establishment	
	of incentives for the farmers and landowners to engage in important	
	initiatives that will be demonstrated by the project, the sustainable	
	financing will be improved.	
	DD C'andle land use house been to some	
	3. The incentives to promote BD-friendly land-use have been to some extent covered by the response to the previous comment. The project	
	also is following a two-pronged approach in the process of moving	
	towards a more biodiversity-friendly landscape: through the 'stick'	
	approach by the development of legislation and improved monitoring	
	and enforcement capacity and through providing the right incentives	
	('carrot' approach) for landowners and stakeholders to make the move	
	from a BD-damaging to a BD-friendly land-use practice. The project	
	does have limited funding and cannot set up an elaborate incentive	
	scheme but the project will during the PPG phase look at possibility of	
	assisting Government in the setting up of such schemes. On a more	
	project-level, the description of incentives for farmers engaged in overgrazing of steppes and meadows has been improved. The project	
	will address overgrazing through the reduction of livestock numbers of	
	the individual farmers. This will be based on a fair and equitable	
	mechanism. The following was added to further clarify the incentive	
	mechanism for the farmers: "Through this mechanism no individual	
	farmer will lose the right to graze the lands but only a reduction in	
	number of animals allowed to graze on the specific steppe area will be	
	enforced. The farmers will be compensated for this loss through	
	increased property rights on the land through longer term agreements	
	and through moving away from an open access regime therefore	
	allowing the individual livestock owners to plan longer term, increased	
	productivity of the remaining livestock as the fodder will be of better	
	quality (low milk yield, less reproductive efficiency, delayed maturity	
	and poor animal growth rate are major constraints for animal productivity due to imbalance nutrition – provision of balance	
	nutrition can perk up the animal productivity, in some cases up to	
	50%), and reduced rent payments to the municipalities for the use of	
	the steppes. The possibility of further compensating livestock owners	

Comments	UNDP's Response	Document Reference
	for reduced stocking rates on critically important steppes through the provision and establishment of artificial pastures to remove loads on steppe or alternative livelihoods schemes will be investigated during PPG stage". The reforestation activities will mainly take place on degraded land and its implementation has benefit for all, seeing that the land is currently lying idle.	
10. Is public participation, including CSOs and indigenous people, taken into consideration, their role identified and addressed properly?	A more elaborate description of CSOs and farmer associations has been added to the revised PIF.	PIF: Part II, A: Project Overview, A2: Stakeholders
April 12, 2013		
The public participation section is rather general. Please further elaborate existing CSOs and farmers association that the project may collaborate.		
12. Is the project consistent and properly coordinated with other related initiatives in the country or in the region?	Please see response to Question # 6.	
April 12, 2013		
As noted above, please further clarify how the project will build on the "baseline projects" and coordinated.		
13. Comment on the project's innovative aspects, sustainability, and potential for scaling up.  - Assess whether the project is innovative and if so, how, and if not, why not.  - Assess the project's sustainability strategy and the likelihood project outcomes will be sustained or not based on the evidence in the literature.  - Are there measures to secure the institutional and financial stability of the project?  - Assess the potential for scaling up the project's intervention strategy and critique the plan for scaling up.  April 12, 2013	The following has been added to the description of the sustainability of the project: "The project has financial sustainability written into it, through the review and realignment of public expenditure and the brokering of additional public and private funding towards BD Mainstreaming. The key gaps in the current process are capacity and coordination among all the spheres of Government to recognize the values of biodiversity and the ecosystem values it provides and the application of this recognition in the land use allocation and permitting process – which this project is designed to address".  The following was added to the scaling up/replication part of the revised PIF: "The project will also develop a package of modifications in land and forest legislation that will not only apply to the districts the project will be covering, but will have national coverage establishing the enabling environment for the project initiatives to replicated in all other districts of Moldova".	PIF: Part II, A: Project Overview, A1: Project Description

Comments	UNDP's Response	Document Reference
The innovative element is well taken.		
The financial sustainability of the project initiative is expected to be further elaborated.		
On the scaling up/replication, the project could highlight the role of development of the legislation/policies at the national level.		
STAP Comments		
None		
GEF Council Comments		Marie III Marie III
None		
GEFSEC comments on PIF (August 26, 2013)		
On the linkage with the Aich also clarify the number of the second secon	i (libectsopitetsalvances the strategic targets of the UNCBD Strategic Plan he targetical gersity 2011 – 2020, in particular: Target 4: By 2020, at the extra table to tail stop to the strategic plan he target table to achieve or have implemented plans for sustainable production and consumption and have kept the impacts of natural resources well within safe ecological limits; and Target 5: By 2020, the rate of loss of all natural habitats, including forests, is at least halved and where feasible brought close to zero, and degradation and fragmentation is significantly reduced.	The respective Project Document on page 19, Sub- Chapter "Project consistency with GEF focal area strategies

### ANNEX 2: TERMS OF REFERENCE FOR THE MULTI-STAKEHOLDER BIODIVERSITY MAINSTREAMING COMMITTEE

1. Background

Successful implementation of the project will depend substantially on strong collaboration between the project partners, governmental decision-makers and other stakeholders. The implementing body, which is the UNDP, and project partners have agreed to establish a Multi-stakeholder Biodiversity Mainstreaming Committee (MSBMC). The MSBMC will be established through a special order of the Ministry of Environment and will be chaired by its representative.

### 2. Function

The MSBMC is the national coordination mechanism to provide necessary assistance and guidance to the PMT on the development, planning, implementation, monitoring and evaluation of the project activities at the national and local level (in pilot districts).

### 3. Specific Responsibilities and Deliverables

The MSBMC brings together authorities tasked with natural resource and land use planning to:

- a) Ensure a unified approach in the development, implementation and enforcement of land-use plans from the different ministries and departments resulting in the optimum use of land in terms of biodiversity conservation, ecosystem services and socio-economic development.
- b) Facilitate the dialogue on biodiversity conservation and coordination of production and development sectors' programs and policies.
- c) Provide guidance and oversight for practices that are biodiversity-friendly and applicable to the country (and the pilot areas).
- d) Contribute to the identification and mobilization of national and local stakeholders that may be essential for successful project implementation.
- e) Review and approve, according to GEF/UNDP's rules, technical and financial documentation (such as annual/ quarterly work plans, budgets, implementation reports, others) as well as changes
- Assist the PMT in addressing obstacles during project implementation that might arise and work with the partners to eliminate such.

4. Membership and Functioning

The MSBMC will consist of members of the following organizations or their mandate 4.1. representative, as follow:

Ministry of Environment (Chairperson)

Ministry of Regional Development and Construction (Deputy chairperson)

Ministry of Environment (Executive Secretary)

**UNDP** Moldova

Agency Moldsilva

Agency for Land Relations and Cadastre

Academy of Sciences

District Council Soroca

District Council Stefan Voda

NGO community

Private (agriculture, forestry)

- The MSBMC will meet at least twice a year, or when necessary, in order to ensure the normal 4.2. activity of the project
- The meetings can be called by the chairperson, by the PMT or upon the call of 1/3 of its 4.3. members

- 4.4. The dates of meetings will be fixed by a coordinated decision and communicated to the members in writing at least 2-3 weeks in advance.
- 4.5. The quorum necessary for decision making is 51% of its members.
- 4.6. The Executive Secretary will organize the necessary administrative support, including drafting/ circulating of agendas, minutes and other materials.
- 4.7. Direct costs of meetings, including transportation and accommodation, will be covered by the project budget.

## ANNEX 3: CAPACITY ASSESSMENT SCORECARD

This scorecard has been designed specifically for this project, as a tool to measure success in terms of developing national capacity to mainstream biodiversity conservation considerations into territorial planning. While, the tool is conceptually based on the UNDP Capacity Development Scorecard, it is different in its substantive focus and the indicators. This is because the UNDP Capacity Development Scorecard is meant to assess the development of capacities vis-à-vis the management of protected areas, whereas this project is about biodiversity mainstreaming into territorial plans and does not deal with protected areas. Table 1 tries to be as objective as possible in its selection of indicators. Each indicator is scored from 0 (worst) to 3 (best), with an explanation of what each score represents for the particular indicator. The tool then estimates the baseline situation/ score for each indicator (cell marked in red), Tables 2 through 5 provide a quantitative summary of the total possible scores, baseline scores, the baseline score as a percentage of the total possible score, and the target score as a percentage of the total possible score. The scorecard will be completed twice during the project implementation: at the mid-term and at the end of the project to measure the progress.

Table 1: Scorecard

		nto	ing a a a nd nd nto hat
		There is a strong and clear legal mandate for biodiversity mainstreaming into territorial plans	Territorial planning institutions have a clears strategy and plan for biodiversity mainstreaming into territorial plans that have been developed with adequate participation and are regularly updated
		There is a reasonable legal framework for biodiversity mainstreaming but it has a few weaknesses and gaps	Territorial planning institutions have some sort of mechanism to update their strategies and plans, but this is irregular or is done in a largely top-down fashion without proper consultation
		There is a partial legal transversely for biodiversely manustreaming into terroteial plans, but it has many maleguacies	Territorial planning institutions do have strategies and plans for biodiversity mainstreaming, but these are old and no longer up to date or were prepared in a top-down fashion
		There is no legal framework for biodiversity mainstreaming into territorial plans	Lettherial planning 0 methodicus do not have clein plans on strategies for mainstreaming hiothyesing concerns onto terripatial planning
	Wo	There is no legal framework for biodiversity mainstreaming in territorial plans	Lemonal plan mentitions do a have clear plans strategies for mainstreaming hiodiversity, can not territorial planomy
	Indicator	There is a strong and clear legal mandate for mainstreaming biodiversity into territorial planning	There is an institution responsible for mainstreaming biodiversity concerns into territorial planning that is able to prepare effective strategies and plans to this end
	Capacity Level	Systemic	Institutional
City A	Strategic Area of Support	Capacity to     conceptualize and     formulate policies,     legislations,     strategies and     programmes	I. Capacity to conceptualize and formulate policies, legislations, strategies and programmes

Approved version

Beer (Senice 4)	Adequate quantities of the full range of skills necessary for effective biodiversity mainstreaming into territorial plans are easily available	There is a fully transparent oversight mechanism in place providing for regular review of biodiversity considerations	Territorial planning institutions have biodiversity-compatible territorial plans, developed through consultations with land users, and there is a process for regular review and updating of the plans	Human resources are well qualified and motivated
Sansfactory (Scote 2)	Necessary skills for effective biodiversity mainstreaming into territorial plans do exist but are stretched and not easily available	There is a reasonable oversight mechanism in place providing for regular review of biodiversity considerations but it lacks transparency (e.g. is not independent, or is internalized)	Territorial planning institutions have biodiversity-compatible territorial plans, developed through consultations with land users, but there is no process for regular review and updating of the plans	HR in general reasonably qualified. but many lack in motivation, or those that are motivated are not sufficiently qualified.
Neugonal (Scote 1)	Some Stills exict but in largely, insufficient quantities to gunerator effects e planning and management	There is some peneral oversight burn hads, cepacity to specifically monitor and enforce cemplance with bindiscrising considerations.	Territorial planning institutions have biodiversity-compatible territorial plans, but these are not developed through consultations with land users	Human resources qualification is sporty with some well qualified, but many only peoply and in general ungoorisated
Wend (Scinotti)	There is a general lack of planning and management skills	There is no oversight at all of Territorial Planning institutions	Territorial planting their triofice so the second s	Human resources (HR) are poorly qualified and unmotivated
Indicator	There are adequate skills for mainstreaming biodiversity concerns into territorial planning	There is a fully transparent oversight authority for the Territorial Planning institutions that has the capacity to monitor and enforce biodiversity mainstreaming into territorial plans	Territorial planning institutions have regularly updated, biodiversity-compatible territorial plans that have been prepared with effective participation of land users	Human resources are well qualified and motivated to mainstream biodiversity concerns into territorial plans
Capacity Level	Systemic	Systemic	Institutional	Institutional
Strategic Area of Support	2. Capacity to implement policies, legislation, strategies and programmes	2. Capacity to implement policies. legislation. strategies and programmes	2. Capacity to implement policies, legislation, strategies and programmes	2. Capacity to implement policies, legislation, strategies and programmes

BAROLIN STREET			
Best (Sypre 3)	Biodiversity- compatible territorial plans are implemented in a timely manner effectively achieving their objectives	Territorial Planning institutions are able to adequately mobilize sufficient quantity of funding, human and material resources to effectively implement their biodiversity mainstreaming mandate	The two processes are well coordinated
Substitution (Spore 2)	Biodiversity- compatible territorial plans are usually implemented in a timely manner, though delays typically occur and some objectives are not met	Territorial Planning institutions have reasonable capacity to mobilize funding or other resources but not always in sufficient quantities for fully effective implementation of their biodiversity mainstreaming mandate	There is agreement in principle on coordinating the 2 processes, but there is a lack of clarity in the normative documents guiding the 2 processes and no practical guidelines/ protocols on how to coordinate
Sea Mayofinal (Score 1)	Biodiversity- compatible territorial plans are poorly implemented and their objectives are rarely met	Territorial Planning institutions have some (meding and are able to mobilize some finnian and material essuages but not crough to effectively implement their biodiversity mainsteaming	Bruth processes are occurring but are taking place order and age not coordinated
Weist (Scarco)	There is yet yittle or opposite the confidence of the confidence o	Territorial Planning institutions typically are severely under funded and have no capacity to mobilize sufficient resources	Only the standard land use planning process is occurring in the district, with no biodiversity information being collected
Indicator	Biodiversity- compatible territorial plans are implemented in a timely manner effectively achieving their objectives	Territorial Planning institutions are able to adequately mobilize sufficient funding, and human and material resources to effectively implement the biodiversity mainstreaming mandate	The process of collecting biodiversity information (led by ASM) and the process of developing territorial plans (led by the Ministry of Regional Development) are well integrated so the former can feed in the right information at the right time into the latter
Capacity Level	Institutional	Institutional	Institutional
Strategic Area of Support	2. Capacity to implement policies, legislation, strategies and programmes	2. Capacity to implement policies, legislation, strategies and programmes	2. Capacity to implement policies, legislation, strategies and programmes

			2023. 350	
Best (Strine 3)	Individuals are appropriately skilled for biodiversity mainstreaming	Individuals are highly motivated	There are mechanisms for developing adequate numbers of the full range of highly skilled professionals able to mainstream biodiversity in territorial plans	There are very high levels of political will to support biodiversity mainstreaming into territorial plans
ons Satisfactor's (Score 2)	Individuals are reasonably skilled but could further improve for optimum match with job requirement	Many individuals are motivated but not all	Mechanisms generally exist to develop skilled professionals, but either not enough of them or unable to cover the full range of skills required	Reasonable political will exists, but is not always strong enough to fully support biodiversity mainstreaming into territorial plans
Sen Marginal (Score D	fellvirluik have some or peorskills for biodiversity manisteratenty	Motivation uneven, some are but most are not	Some mechanisms exist but unable to develop enough and unable to provide the full range of skills needed	Nome political will exists, but is not shoug smonglen make a difference
WorkirScore 0)	Individuals have no skills for biodiversity mainstreaming into territorial plans	No monvarion at aft.	No mer francins exist 0	There is no political will at all, or worse, the prevailing political will runs counter to the interests of biodiversity mainstreaming into territorial plans
Indicator	Individuals in Territorial Planning institutions are appropriately skilled for biodiversity mainstreaming into	Individuals in Territorial Planning institutions are highly motivated for biodiversity mainstreaming	There are appropriate systems of training, mentoring, and learning in place to maintain a continuous flow of new staff with the capacity to mainstream biodiversity in territorial plans	Biodiversity- compatible Territorial Plans have the political commitment they require
Capacity Level	Individual	Individual	Individual	Systemic
Strategic Area of Support	2. Capacity to implement policies, legislation, strategies and programmes	2. Capacity to implement policies, legislation, strategies and programmes	2. Capacity to implement policies. legislation, strategies and programmes	3. Capacity to engage and build consensus among all stakeholders

	1/20		
Best (Septe 3)	tremendous public support in the country for Biodiversity-compatible Territorial Plans	Territorial Planning institutions establish effective partnerships with other agencies and institutions, including provincial and local governments. NGO's and the private sector to enable achievement of biodiversity mainstreaming objectives in an efficient and	Territorial Planning institutions have the biodiversity information they need to develop and monitor territorial plans
		0	71
Sanstactory (Serie 2	There is general public support for Biodiversity-compatible Territorial Plans and there are various lobby groups such as environmental NGO's strongly pushing for them	Many partnerships in place with a wide range of agencies. NGOs etc., but there are some gaps, partnerships are not always effective and do not always enable officient adaresment of brodiversity manasteraming objectives.	Much information to easily assiliable and mostly of good quality, for there contains some gaps in quality, coverage and availability
THE REAL PROPERTY.			ပ္
Maginal (Score 1	There is limited support for Brodrights Compatible Territorial Plans	Some partnerships are in place but there are significant gaps, and existing partnerships achieve little	Some information exists, but is of poor quality, is of limited usefulness, and is not always available at the right time
WorsteScore 0)	The public has little interest in Biodiversity-compatible Territorial Plans and there is no significant lobby for it	Territorial Planning institutions operate in isolation	Information is virtually lacking
Indicator	Biodiversity- compatible Territorial Plans have the public support they require	Territorial Planning institutions can establish the partnerships needed to achieve biodiversity mainstreaming objectives	Territorial Planning institutions have the biodiversity information they need to develop and monitor biodiversity-compatible territorial plans
Capacity Level	Systemic	Institutional	Systemic
Strategic Area of Support	3. Capacity to engage and build consensus among all stakeholders	3. Capacity to engage and build consensus among all stakeholders	4. Capacity to mobilize information and knowledge

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Brist (Comp. (2))	Individuals interact effectively and form cross- disciplinary functional teams	There is an open and transparent public dialogue about the state of biodiversity mainstreaming into territorial plans	Institutions have effective internal mechanisms for monitoring, evaluation, reporting and learning
Des Kuischender Schare 21	Individuals interact regularly and form teams, but this is not always fully effective or functional	There is a reasonably open public dialogue going on but issues that particularly magnify the conflict between economic activities and biodiversity considerations are not discussed.	Reasonable mechanisms for monitoring, evaluation, reporting and learning are in place but are not as strong or comprehensive as they could be
Seo Nareinal I Score 13		There is some dishipute going on bur not in the wider public and restricted to specualized engles	There are some niectranisms for acculation, reporting cealuation, reporting and learning but they are limited, and wenk
Worst (Scine 0)	Individuals work in isolation and don't interact	There is no dialogue at all	There are no mechanisms for monitoring, evaluation, reporting or learning
Indicator	Individuals working on territorial planning work effectively together as a team	Society monitors the state of biodiversity mainstreaming into territorial plans	Territorial Planning institutions have effective internal mechanisms for monitoring, evaluation, reporting and learning
Capacity Level	Individual	Systemic	Institutional
Strategic Area of Support	4. Capacity to mobilize information and knowledge	5. Capacity to monitor, evaluate, report and learn	5. Capacity to monitor, evaluate, report and learn

Table 2: Quantitative summary of Total Possible Scores

Winds State of the Control of the Co	Systemic	Institutional	Individual
1. Capacity to conceptualize and formulate policies, legislations, strategies and programme	3	3	
2. Capacity to implement policies, legislation, strategies and programmes	9	15	6
5. Capacity to engage and build consensus among all stakeholders	9	3	,
4. Capacity to mobilize information and knowledge: Technical skills related specifically to the requirements of GEF SO-2 and SP-4	3		3
3. Capacity to monitor, evaluate and report and learn at the sector and project levels	3	3	
Note: " moone and it if it is	21	24	12
Note: - incars no indicator was selected for that level.			

Table 3: Quantitative summary of Baseline Scores

the same of the same state	Systemic	Institutional	Individual
Consists to concentralize and formulate policies legislations, strategies and programme	1	0	1
	2	3	1
2. Capacity to angone and build concensis amone all stakeholders	2	2	1
	2	1	
Consider to monitor evaluate and neport and learn at the sector and project levels	1		1
apacity	8	9	2
1014			

Note: "-" means no indicator was selected for that level.

Table 4: Quantitative summary of Baseline Scores as a % of Total Possible Scores

			PS ST
	Systemic	Institutional	Individual
1 Connectivity to concentrative and formulate policies legislations, strategies and programme	33%	0%	
2. Consists to implement policies legislation strategies and programmes	33%	20%	11%
2. Capacity to implement poincies, registration, across the property of the content of the conte	33%	67%	-
3. Capacity to engage and build conscious animals an accordance of the sequirements of GEF SO-2 and SP-4 67%	%19		33%
4. Capacity to moving and report and learn at the sector and project levels	33%	33%	1
5. Capacity to infiltred, evaluate and report and read at the sector and respectively.	38%	25%	17%
10tal			
Note: "-" means no indicator was selected for that level.	_		

Table 5: Quantitative summary of Target Scores as a % of Total Possible Scores

	Systemic	Systemic Institutional Individual	Individual
1 Commission of Commission and formulate policies legislations strategies and programme	100%	100%	-
1. Capacity to involument redicise legislation strategies and programmes	100%	87%	67%
2. Capacity to imprime poinces; regionalized and programmers of the pr	83%	100%	-
3. Capacity to engage and outro conscisus among an successories and specifically to the requirements of GEF SO-2 and SP-4	100%	1	100%
4. Capacity to mobilize information and knowledge, reculting against charge appearingly to mobilize information and the second and the second appearance of the second and	100%	100%	-
5. Capacity to monitor, evaluate and report and learn at the sector and project revers	070%	070%	84%
Total	01.16	21.10	2/10
Mister II II manus no indicator una calantad for that lave			

Note: "-" means no indicator was selected for that level.

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## ANNEX 4: PILOT DISTRICT AND SITE DATA SHEETS (INCLUDING MAP)

During the PPG, a participatory process was undertaken to select sites. The results of that process are summarized in the table below. All statistics are official from the National Bureau of Statistics, Agency for Land Relations and Cadastre, Agency Moldsilva and the Ministry of Environment as well as based on discussions with biodiversity experts.

Criteria	Stefan Voda	Corror	
District area	99.838 ha	301 0C3	Telenesti
Pastureland	7.421 ha	104, 299 ha	84862
Loronto	0 404 1	11.709 ha	12715
roiests	8,494 na	15,421 ha	12353
rorest plantations	1,0// ha	792 ha	705
Marshes	901 ha	867 ha	310
Ramsar Sites	60,000 ha	15.553 ha	None
	Lower Dniester (Nistru de Jos). (2003); covers mainly one district: Lower Dniester (Nistru de Jos). Ramsar site no. 1316. 20/08/03; Tighina, Slodozia, 60,000 ha; 46 34'N 29 49E; This complex of relict and transformed habitats of the Dniester floodplain includes meandering zones with almost closed river loops typical for the northwest of the Black Sea basin, lakes and oxbows formed by river roaming, specific ash communities and unique old stand floodland poplar forest, Fraxineto-Populeta (albae). The site supports many globally endangered and vulnerable bird species among which 2 are nesting ( <i>Crex crex, Phalacrocorax pygmaeus</i> ), 4 are present on migration ( <i>Branta ruficallis, Aythya nyroca. Circus macrourus, Haliaeetus albicilla</i> ), 1 regular visitor ( <i>Pelicanus crispus</i> ), and fish such as the Danube Salmon ( <i>Hucho hucho</i> ), the European Mudminnow ( <i>Umbra krameri</i> ) and various species of surgeons. The wetland is an important site for freshwater migratory fish as it supports more than 90% of the species of the region and offers a high diversity of biotopes: riverbed spawning ground, areas of pelagic spawning and nursery. Construction of dams in the Dniester valley has affected the terrestrial, aquatic and intermediate ecosystems and large areas of important meadow spawning grounds were lost. Grazing is also considered as an important disturbance. There are recognized paleontological and archaeological value since the discovery of fossils and places such as tumuli, Cimmerian, Ghetic, Sarmatic and Slavic memorials. The creation of a Lower	Unguri-Holosnita (2005); mainly in Soroca (some in Ocnita): Unguri-Holosnita. Ramsar site no. 1500. Elevation: 51 m- 245 m average: 150 m. Area: 15,553 ha. 14/09/05; Soroca, Ocnita, High rocky, crumbling-sloughing slopes and narrow flood-land of the Dniester River's left bank, in northeastern Moldova near the border with Ukraine. The Dniester includes wide, shallow segments here with little islands, small rivers and short creeks feeding the stream and forming steep canyons. Fluvial forests are formed by poplar associations with an admixture of willows, ash and elm, with riparian willow formations. The most numerous waterfowl and waders during forage and seasonal migrations are ducks, e.g. Anas platyrhynchos, A.querquedula and A. strepera, which also predominate amongst wintering birds. Agriculture provides the main sources of economic life, supplemented by livestock farming and traditional fishing, which is losing its economic value as fish resources became scarce as a result of strong variations of discharge levels from the Novodnestrovsk hydropower station. There are more than 60 sites of cultural, geological, paleontological and archaeological interest, along with a settlement of Old Believers in the village of Pocrovca. The BIOTOCA Ecological Society in Chisinau was helpful in the preparation for this site designation.	None
	Dniester National Park is under discussion.		

			Tolomorti
	C4.6. 17.3.	Soroca	I elenesti
Criteria	Steran voda		I ower rich
Biodiversity areas	Major risk	Major / medium risk	LOWCI LISA
under direct human			
pressure 23			M
Plant key-species	Stipa pennata and S. ucrainica documented	Stipa pennata and S. ucrainica likely to be occurring	INO IECOIO
presence			0 000 000 000 000
Animal key-species	European ground squirrel (Spermophilus citellus) and speckled ground squirrel (S. suslicus) were either documented in au districts or seen in some	ed squirrel (S. suslicus) were either documented in all aistricts or	seen in some
presence	localities across the districts		
	ľ	9 points	3 points
Assessment / scoring	/ points		

## DISTRICT 1: SOROCA (NORTH REGION; TOTAL AREA 104,298.98 HA)

Biotope Type /	Area (ha)	Ownership / Property	Species Diversity / composition	Protected / indicator taxa	Land use practices	Services provided
Agro-ecosystems						
Arable land	62984.31	Private / Communal	Agricultural biodiversity, less as habitats for natural biodiversity	Some animal species nest in forests, but feeding on agricultural lands	Crop cultivation, farming	Food provision, energetic biomass (heating, cooking), household needs
Pastureland *	11708.98	Communal	Some typical steppe species still persist on pastures (but there is no monitoring, based only on old data)	European ground squirrel (Spermophilus citellus), speckled ground squirrel (S. suslicus), corncrake (Crex crex), Feather grasses (Stipa) etc.	Grazing	Domestic animal feeding
Sliding land		Communal	No data	No data		
Ravines		Communal	Could be place for a number of plant animal diversity occasionally using ravines	No data		
Forest ecosystems						
Protected oak forest	237	Moldsilva	Important habitat for numerous Red List species	More than 250 species of vascular plants from which 12 species of rare plants are included in Red Book of Moldova: Dryopteris carthusiana, Gymnocarpium dryopteris, Melitis sarmatica, Phyllitis scolopendrium, Polystichum aculeatum, Trifolium panonnicum, Cephlanthera damasonium, Doronicum hungaricum, Fritillaria meleagroides, Galanthus nivalis, Pulsatila grandis, Scopolia carniolica.	Biodiversity protection, Recreation	Recreation / tourism in PAs
				Also the area includes 19 rare and endangered		

<sup>&</sup>lt;sup>23</sup> According to data from Ecological Society BIOTICA <sup>24</sup> Other Stipa likely to be occurring

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Plantations	791 66	Moldeilus /				
		Communal /	Communal / important wood supply for local private communities	Low importance as conservation	Wood/timber production, grazing	Energetic wood
Water and wetland ecosystems	cosystems					
River / lake(s)	2189.77		Fish species, waterfowls, river/water mammals	Some protected species use riverbank habitats as Fishing, irrigation, passage or migratory ways	Fishing, irrigation,	Water, food (fish.
Wetlands / Marshes 867.16	867.16	Communal /	Communal / High rocky, crumbling-	Mostly birds (as resting/nesting areas)	1000000	Banne)
		Private /Moldsilva /	sloughing slopes and narrow		fishing, hunting,	water supply (drinkable and
		MTRI	River's left bank, in	species are rare out of which 31 are included in the Red Book. Most endangered are:	timber, recreation	irrigation), energy
			northeastern Moldova near the border with Ukraine. The	Dryopteris carthusiana, Gynnocarpium dryopteris Melitis sarmatica, Phyllitis		hunting

Recreation / tourism in Wood/timber, NFTPs

Wood production, fruits collection, lease, recreation

Oaks serve as nesting habitat for predator birds

(c.g. Aquila clanga), feeding niches for many

species

Low diversity, however

Moldsilva/

791.66

Plantations

Vipera berus) and 8 rare insect species (Lucanus

Scolia maculata Xylocopa valga, Callimorpha

quadripunctaria, Iphiclides podalirius.

Zerynthia polyxena)

Important systems for a number of plant and animal diversity

Moldsilva

9795.34

cherry formations

Dry oak with

cervus, Cerambyx cerdo, Morimus funereus,

pennatus, Falco cherrug, Egretta alba); 2 Red

Book reptile species (Coronella austriaca,

PAs and non-PAs

Services provided

Land use practices

mammals, from which 6 are included in the Red

Protected / indicator taxa

Species Diversity / composition

Ownership / Property

Area (ha)

Biotope Type / Name

procyonoides, Mustela ermine, Martes martes,

Book (Crocidura leucodon, Nyctereutes

flammeus. Branta ruficollis, Bubo bubo, Ciconia

nigra, Circaetus gallicus Circus cyaneus,

included in the Red Book are Aquila clanga,

Aquila pomarina, Ardeola ralloides, Asio

endangered bird species, from which those

Lutra lutra, Felis silvestris); 60 rare and

tetrax, Plegadis falcinellus Platalea leucorodia, Circus macrourus, Circus pygargus, Columba

oenas Cygnus Cygnus, Cygnus olor, Tetrax

Pelecanus crispus, Pandion haliaetus Oxyura

Pelecanus onocrotalus, Pernis apivorus,

Picus viridis Phalacrocorax pygmaeus,

percnopterus, Monticola saxatilis, Milvus

leucocephala, Otis tarda, Neophron

milvus, Haliaeetus albicilla, Hieraaetus

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Biotope Type / Name	Area (ha)	Ownership / Property	Species Diversity / composition	Protected / indicator taxa	Land use practices	Services provided
			Dniester includes wide, shallow segments here with little islands, small rivers and short creeks feeding the stream and forming steep canyons. Fluvial forests are formed by poplar associations with an admixture of willows, ash and elm, with riparian willow formations. The most numerous waterfowl and waders during forage and seasonal migrations are ducks.	scolopendrium. Polystichum aculeatum. Trifolium panonnicum, Cephlanthera damasonium, Doronicum hungaricum, Fritillaria meleagroides, Galanthus nivalis, Pulsatila grandis. Scopolia carniolica, Asplenium scolopendrium, Cephalanthera damasonium. Among animal species included in the Red Book are Crocidura leucodon, Ardeola ralloides, Anas playrthynchos, Anas querquedula and Anas strepera Aquila pomarina, Aquila clanga Branta ruficollis, Ciconia nigra, Ciconia nigra, Circaetus gallicus, Circus cyaneus, Circus macrourus, Circus pygargus, Cygnus Cygnus, Cygnus olor, Egretta alba, Falco cherrug, Haliaeetus albicilla, Hieraaetus pennatus, Milvus milvus, Monticola saxatilis Neophron percnopterus, Oxyura leucocephala, Pandion haliaetus, Pelecanus crispus, Pelecanus onocrotalus,		
Calcareous rocky slopes	opes					
Petrofite xerophytic vegetation		Communal / Moldsilva	Typical steppe diversity may occur on steppe remnants as well as on agricultural fields around	Reliable data are for Stipu capillata and Stipu lessingiana. Not excluded European ground squirrel (Spermophilus citellus) and, speckled ground squirrel (S. suslicus) may be there too. Rare reptiles are present (Coronella austriaca, Coluber jugularis).	Grazing where available	Partially as pastures
Karsts		Communal / Moldsilva	Provides habitat for karst cave biodiversity	Greater Horseshoe Bat (Rhinolophus ferrumequinum)	Visitors	Toursim

Threat to be addressed	Statistics / data per country or/and pilot sites	Actions / Measures to be undertaken for prevention and/or elimination of threats
Soil degradation	Sliding land – 666,18 ha, ravines – 242,67 ha, no other data available. Circa 10% of the district land area is covered with forest type soils.	The project will contribute to the reduction in soil degradation through (see also Output 2.2.) (i) reforestation of areas that are degrading because of erosion, and (ii) amelioration of areas where active erosion is occurring (as in Stefan Voda district, for instance). Generally, in terms of sustainability the loss in soil quality and humus might be stopped by applying a rational land use management plan, without disturbing established ecological equilibrium, and avoiding all types of pollution. An eco-agriculture in terms of sustainability would also be a solution too for agricultural production.
Abusive	Officially, pasturelands and grazing are organized by	The project will contribute to a regulated (rational) grazing through the improvement of existing

Threat to be addressed	Statistics / data per country or/and pilot sites	Actions / Measures to be undertaken for prevention and/or elimination of threats
grazing	communities themselves. But uncontrolled/illegal grazing can occur on other lands (forest shelterbelts, abandoned vineyards, ravines, on harvested plantations in autumn). It does affect almost every lot/area of available land, especially in dry seasons; also, it leads to loss in organic fertilizers, which influence soils quality and its compactness.	pasturelands (former steppe and/or partially forestlands) in pilot areas. Management Grazing Plans (MGPs) will be developed for each locality. Rotational Grazing System (RGS) is highly desirable and thus will be promoted, so that some areas are left for higher biomass production. Grazing should be limited in early spring, at least for some time, instead provisional lands can be used for grazing. Hay Making Areas will be established either voluntarily or by available lands, as part of MG and/or RGS. Awareness among local communities needs to be conducted (e.g. the impact on soil structure, biodiversity loss, interrelationships etc.) so that sustainability effect is being brought to communities and final users. Promoting the creation of pastoral forests would be an option.
Exotic/invasive species	Data are in accordance with IUCN's Invasive Species Database, matching 61 species occurring in Moldova, of which 6 are exotic/introduced species. Natural biodiversity is under pressure and/or can be substituted locally.	Control (which is more expensive) and prevention (which can avoid losses) actions are needed. The project will tackle the need for Exotic/Invasive Species Management Plans in pilot areas, so communities will themselves develop them according to damage/losses they have because of exotic/invasive species. The project will also pledge for an integrated pest management (given the fact that controlling invasive species can be done using physical, chemical and biological approach). Such exotic species as Oleaster will simply be removed from the pilot areas. The other species, native Dog Rose, will also be removed from pilot areas and controlled, so that only small patches of it would be left in the field (it needs to be taken into account that fruits of God Rose are used by locals as food)
Illegal logging	While officially authorized volumes for harvesting are around 500,000 m3, the other statistics (ENPI FLEG, 2011) refer to around 1.000,000 m3 of wood consumed from domestic sources (mainly as fuelwood).	The project will contribute to reducing it through prevention measures and providing opportunities in the short/medium run by undertaking FMPs and in the long run through reforestation. Planting trees in new areas (mainly degraded or under some forms of erosion) will help solve a number of problems: economically (wood/timber, soils stability), social (provision with various forest products) and ecologically (stability, habitats, shelter). Conducting FMP will increase the chances for illegal logging, given the fact that community forestlands (where FMP will be carried out) is a week sector compared with state forestry sector.
Direct pollution	Industrial pollution and dumping of household waste in natural areas is common. No reliable control is applied. There is no system of integrated prevention of pollution. However, authorities started to focus on medium and long-term waste management and decrease in pollution.	The project will address it and will contribute to the reduction in pollution through improved <b>DGPs</b> and LUPs. The project will make efforts for inclusions of data/information in and for making provisions towards prevention and control of pollution, involving small or medium businesses into selective collection and/ or processing of waste would be a solution and applying rational approaches.
Uncontrolled / unorganized recreation	No official statistics exist, but people traditionally use natural areas (forests, or other natural areas) for recreation during spring to autumn, especially on holidays.	This will be addressed by making provisions in the DSPs and LUPs. An organized tourism (such as agro-tourism, eco-tourism, rural-tourism) will be proposed as alternative to reduce the impact from uncontrolled/unorganized tourism. The project will make use of existing resources/database on touristic infrastructure and sights (including PAs) in the region. Areas that are the most visited need to have an organized tourist/ visitor management system (e.g., demarcated areas for food preparation, water disposal/ collection, hygiene). Small and medium size business can be involved in managed recreation to minimize impact.

# DISTRICT 2: STEFAN VODA (SOUTH-EASTERN REGION; TOTAL DISTRICT AREA: 99,838 HA)

Biotope Type / Name	Area (ha)	Ownership / Property	Species Diversity / composition	Protected taxa	Land use practices	Services provided
Agro-ecosystems						
Arable land	58088	Private, communal	Agricultural biodiversity, less as habitats for natural biodiversity	Some animal species nest in forests, but feeding on agricultural lands	Crops cultivation, orchards, vineyards, farming, grazing	Food, biomass
Pastureland	7421	Communal	Some typical steppe species still persist on pastures (but there is no monitoring, based only on old data)	European ground squirrel (Spermophilus citellus). speckled ground squirrel (S. suslicus), corncrake (Crex crex) can be present. Sipa ucrainica can be found (cf. Postolache Gh., 2014)	Grazing	Forage
Forest ecosystems	SI					
Xerophyte forests ("Gimet" forests)	8494		Composed of semi-arid oak formations of Quercus pubescens.	Such forests intercalate with steppe biodiversity, including rare species typical for steppes, which can use forests as shelter	Management, grazing	Wood / timber, habitats
Lowland forests		Moldsilva	Includes native poplar fluvial forests, riparian forests with willow formations, alluvial ashdominated forests	Rare ash community Fraxineto-Populeta (albae), unique old stand floodland poplar forests Rare Red Book plants: Lunaria rediviva, Salvinia natans, Trapa natans. Red Book animals: Felis silvestris, Hieraaetus pennatus, Pernis apivorus, Asio flammeus, Aythya	Management (fuel wood, less as timber)	Wood, timber, bruits/berries, habitats
				nyroca, Zamenis longissimus, Coronella austriaca, Pelobates fuscus		
Plantations	1077	Communitie s, private, Moldsilva	Artificial mono-dominant plantings of acacias for anti-erosion and wood production purposes (short-rotation)	Not important for protected species	Management, grazing	Wood biomass, carbon storage, soil protection
Water and wetland ecosystems	nd ecosyste	sms				
River / Jake(s)	3892	State	Important site for freshwater migratory fish as it supports more than 90% of the species of the region and offers a high diversity of biotopes.	Ramsar site nr. 1316 Lower Dniester (Nistru de Jos); Tighina, Slodozia; 60000 ha Plants: Trapa natans, Salvinia natans, Nymphaea alba, Thelipteris palustris, Vitis sylvestris, Stembergia colchiciflora, Crambe tatarica,	Fishing, irrigation, recreation	Water, food (fish, game)
Wetlands / marshes	901	Communitie s. privates, Moldsilva	Important for freshwater diversity (plants, migratory fish, migratory and/or nesting birds); It is exceptional for its diversity of algae, phyto- and zooplankton	Convolvulus lineatus, Maianthemum bifolium, Euonymus nana Animals: Mammals: Crocidura leucodon, Mustela ermine, Martes martes, Lutra lutra, Felis silvestris Globally endangered and vulnerable bird species	Crop cultivation. fishing, hunting, timber, recreation	Water supply (drinkable and irrigation), energy biomass, pasturing.

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Biotope Type / Name	Area (ha)	Ownership / Property	Species Diversity / composition	Protected taxa	Land use practices	Services provided
			and water vegetation. The combination of wetland and upland natural habitats, with agricultural lands create ideal conditions for high number and diversity of bird species. The wetland supports high faunal species diversity, including nationally threatened species.	(Crex crex, Phalacrocorax pygmaeus, Branta ruficollis, Aythya nyroca, Circus macrourus, Haliaeetus albicilla, Pelicanus crispus), Aquila pomarina, Ardeola ralloides, Ciconia nigra, Circaetus gallicus, Circus cyaneus, Circus pygargus, Cygnus Cygnus, Cygnus olor, Egretta alba, Falco cherrug, Pandion haliaetus, Pernis apivorus, Danube Salmon (Hucho hucho), European Mud-minnow (Umbra krameri).		
				IUCN red-listed species: insects (Osmoderma eremita, Sago pedo), amphibians (Bombina bombina, Hyla arborea, Emys orbicularis), mammals (Myotis dasycneme, M. bechsteini, Nyctalus lasiopterus, Mustela lutreola, Lutra lutra)		
Steppe (remnants) ecosystems	ts) ecosyste	ms				
Steppe patches with feather grass	ć.	Communitie s	There are such remnants, which are either used as pasturelands or/and are in a silvo-steppe mosaic with steppe tree formations. Steppe patches are part of so-called Bugeac steppe, which reaches Black Sea.	Home or food habitat to many rare plant and animal species	Grazing	Forage

Гейдеман Т.С. 1989. Степная растительность / Растения степей, известняковых склонов и сорные. Кишинев, С. 5-7/ Geideman T.S. 1989. Steppe vegetation/Steppe and calciferous slope flora, and ruderal plants, Chisinau, p.5-7
Negru 2007 Determinatorial de plante
Negru 2007 Determinatorial de plante
Гейдеман Т.С., Витко К.Р. 1990. Степи и бородачевые сообщества Молдавии / Флора и геоботаника. Вып. 7. «Штиннца». С. 53-57/ Geideman T.S., Vitko C. P. 1990/
Steppe and beard grass community/Flora and geobotany, ed. 7, "Science", p. 53-57

Threat to be addressed	Statistics / data per country or/and pilot sites	Actions / Measures to be undertaken for prevention and/or elimination of threats
Soil degradation	Slightly eroded - 14573 ha, moderate eroded - 7969 ha, highly eroded - 2417 ha. Level of erosion 31,6% (34,9% per country), level of highly eroded soils 3,1% (4,5% average per country)	The project will contribute to reducing soli degradation through (see also Output 2.2.) (i) Reforestation of areas that are degrading because of erosion, and (ii) amelioration of areas where active erosion is occurring (as in Copeeac, for instance). Generally, in terms of sustainability the loss in soil quality and humus might be stopped by applying a rational land use management plan, without disturbing established ecological equilibrium, and avoiding all types of pollution. Eventually, it needs to rely on nature-friendly approach. An eco-agriculture in terms of sustainability would also be a solution too for agricultural production.
Abusive grazing	Pasturelands and grazing are organized by communities themselves.  But uncontrolled/illegal grazing occurs on other lands (forest	The project will contribute to a regulated (rational) grazing through the improvement of existing pasturelands (former steppe and/or partially forestlands) in pilot areas. Management Grazing

Threat to be	Statistics / data per country or/and pilot sites	Actions / Moscures to be understoon for amounting and for all the second
addressed	shelterbelts, abandoned vineyards, ravines, on harvested plantations in autumn). It does affect almost every lot/area of available land, especially in dry seasons; also, it leads to loss in organic fertilizers. which influence soils quality and its compactness.	Plans (MGPs) will be developed for each locality. Rotational Grazing System (RGS) is highly desirable and thus will be promoted, so that some areas are left for higher biomass production. Grazing should be limited in early spring, at least for some time, instead provisional lands can be used for grazing. Hay Making Areas will be established either voluntarily or by available lands, as part of MG and/or RGS. Awareness among local communities needs to be conducted (e.g. the impact on soil structure, biodiversity loss, interrelationships etc.) so that sustainability effect is being brought to communities and final users. Promoting the creation of pastoral forests would be an option.
Direct pollution	Industrial pollution and dumping of household waste in natural areas is common. No reliable control is applied. There is no system of integrated prevention of pollution. However, authorities started to focus on medium and long-term waste management and decrease in pollution.	The project will address it and will contribute to the reduction in pollution through improved DGPs and LUPs. The project will make efforts for inclusions of data/information in and for making provisions towards prevention and control of pollution, involving small or medium businesses into selective collection and/ or processing of waste would be a solution and applying rational approaches.
Dams construction (if continued)	The dams, built during soviet era (around 1960") in the Dniester valley, have affected the area. The consequences still affects the terrestrial, aquatic and intermediate ecosystems; wetlands can be lost as ecosystems and habitats for great diversity	The practice of building dams and creating drainage system for an improved agriculture and agrofood production should not be allowed in any cases. An important step towards maintaining environmental stability in the region is to make communities as well as national/republican authorities understand that this may destroy the wetlands and/or can become the irreversible point for their survival.
Exotic species	Data are in accordance with IUCN's Invasive Species Database, matching 61 species occurring in Moldova. of which 6 are exotic/introduced species. Natural biodiversity is under pressure and/or can be substituted locally.	Control (which is more expensive) and prevention (which can avoid losses) actions are needed. Management plans (national and local) are needed for each invasive and/or exotic species that affect natural habitats. Controlling invasive species can be done using physical, chemical and biological approach. An integrated pest management needs to be taken into account too, depending from case to case and local conditions.
Illegal logging	While officially authorized volumes for harvesting are around 500,000 m3, the other statistics (FLEG, 2011) refer to around 1,000,000 m3 of wood consumed from domestic sources (mainly as fuelwood). According to ENPI East FLEG, the wood consumption is higher in southern districts and the price for wood is rather high that local communities can afford.	The project will contribute to reducing it through prevention measures and providing opportunities in the short/medium run by undertaking FMPs and in the long run through reforestation where needed. Planting trees in new areas (mainly degraded or under some forms of erosion) will help solve a number of problems: economically (wood/timber, soils stability), social (provision with various forest products) and ecologically (stability, habitats, shelter). Conducting FMP will increase the chances for illegal logging, given the fact that community forestlands (where FMP will be carried out) is a week sector compared with state forestry sector.
Uncontrolled / unorganized recreation	No official statistics exist, but people traditionally use natural areas (forests, or other natural areas) for recreation during spring to autumn, especially on holidays.	This will be addressed by making provisions in the DSPs and LUPs. An organized tourism (such as agro-tourism, eco-tourism, and rural-tourism) will be proposed as alternative to reduce the impact from uncontrolled/unorganized tourism. The project will make use of existing resources/database on touristic infrastructure and sights (including PAs) in the region. Areas that are the most visited need to have an organized tourist/ visitor management system (e.g., demarcated areas for food preparation, water disposal/ collection, hygiene). Small and medium size business can be involved in managed recreation to minimize impact.

Map of the Republic of Moldova with pilot districts highlighted



### **ANNEX 5: RISK ANALYSIS**

Description of Risk	Туре	Impact &	Countermeasures / Management
Description of Risk	Туре	Probability	response
Enter a brief description of the risk  (In Atlas, use the Description field. Note: This field cannot be modified after first data entry)	Environmental Financial Operational Organizational Political Regulatory Strategic Other (In Atlas, select from list)	Describe the potential effect on the project if this risk were to occur P = Enter probability on a scale from 1 (low) to 5 (high) 1 = Enter impact on a scale from 1 (low) to 5 (high) (in Atlas, use the Management Response box. Check "critical" if the impact and probability are high)	What actions have been taken/will be taken to counter this risk (in Atlas, use the Management Response box. This field can be modified at any time. Create separate boxes as necessary using "+", for instance to record updates at different times)
MoE, Moldsilva and MRDC do not support the project strategy and are not interested in transferring lessons to additional districts	Political	This would adversely affect transfer of lessons and replication of project approach in districts other than the pilot districts P = 2 l = 3	MoE, Moldsilva and MRDC have been actively involved in the project development phase. Further, to reduce conflicts, where possible, formal agreements/ MOUs will be used to define roles and responsibilities. Training will be provided to stakeholders on governance and conflict resolution. Activities will be designed and implemented in a win-win manner, beneficial to all, as far as possible. The sustainable development of the landscapes will be emphasized with arguments that are supported with long-term economic forecasts.
Authorities from districts and localities other than the pilot districts are not receptive to applying the project approach in their districts	Political	This would adversely affect transfer of lessons and replication of project approach in districts other than the pilot districts  P = 3  I = 2	The project will initigate this threat by involving relevant stakeholders from the 33 additional districts in the project's capacity-building workshops and in-field demonstrations.
Amendments and methodological recommendation for economic land use activities do not receive political support	Political	This would adversely affect the project's objective of modifying the legislative framework to make it more conducive to mainstreaming biodiversity in land use planning P = 2 I = 4	A participatory process will be used in developing amendments with frequent consultations with government and non-government actors. In addition the MSBMC, comprised of representatives from the key Ministries, will help in garnering political support for the amendments.
Ministry of Justice do not accepts project recommendations on a more effective system of penalties for malfeasance to approved DSPs, LUPs, GMPs and FMPs	Political	This would adversely affect the project's objective of putting in place a penalty system commensurate with impacts on biodiversity P = 4 I = 4	In order to address this risk, representatives of the MJ will be part of the project implementation process at all stages and will be invited to sit in the MSBMC.

Description of Risk	Туре	Impact &	Countermeasures / Management response
District-level and community-level approval process of DSPs, LUPs, GMPs and FMPs proceeds with difficulties  Low understanding and resistance at the community level for approval of developed DSPs, LUPs, GMPs.	Organizational Organizational	Probability  This would adversely affect implementation of the project's demonstration activities in pilot districts and communities  P = 1 1 = 4  This would adversely affect implementation of the project's demonstration activities in pilot districts and communities  P = 1 1 = 4	The project will ensure that key representatives from the district and community levels are involved in early stages of the development of the biodiversity-enhanced DSPs, LUPs, GMPs, and FMPs.  The project will ensure that land users are informed about the project activities and also involved as much as possible in early stages of the development of the biodiversity-enhanced DSPs, LUPs, GMPs as well as in pilot activities.
MoE and ALRC do not cooperate to make species/ habitat data available for the spatially-based digital decision- making system for biodiversity conservation	Organizational	This would adversely affect the project's establishment of a decision support system for mainstreaming biodiversity conservation into land use planning P = 2 1 = 4	Active participation of staff from MoE and ALRC in the project's capacity building activities, as well as involvement in field-level demonstrations will be ensured. This will provide a foundation for establishing links between biodiversity information and land resource use information which, in turn, will support collaboration on the decision support system.
Climate change lead to catastrophic impacts	Environmental	This would adversely affect the biodiversity conservation benefits that the project seeks to generate directly in pilot sites and indirectly through replication in other districts.  P = 2 1 = 4	The Project will work to address the anticipated negative impacts of climate change by increasing the resilience of the aquatic and terrestrial ecosystems in the targeted districts. By removing the precursors of degradation and careful monitoring of the self-restoration capacities of steppe, forest, meadows and swamps, the project contributes to higher resilience of the ecosystems and the species they host, to climate change impacts. Maintenance of large-scale resilience is critical in securing flow of ecosystem services and avoiding irreversible ecosystem regime shifts, which may be caused by climate change.
Potential territorial- administrative reform would change the area for DSPs and LUPs	Political	The reform would adversely affect the area subject for DSPs and LUPs, and the relevant analysis.  P=1  I=1	The project will ensue that all the biodiversity-relevant analysis as part of the DSPs and LUPs go beyond the actual administrative-territorial borders of the pilot districts to be further used in case the territorial-administrative reforms occurs.

#### **ANNEX 6: AGREEMENTS**

Agreements/supporting letters from all key partners have been secured as follows. These are attached as separate files.

- Agreement between UNDP and GoM for provision of support services
- Co-financing/support letter from the MoE
- Co-financing/support letter from Agency Moldsilva
- Co-financing/support letter from Stefan Voda District Council
- Co-financing/support letter from Soroca District Council
- Co-financing/support letter from UNDP
- Approvals by the local councils of projects' interventions:
  - Council of Badiceni community, Soroca District
  - Council of Copceac community, Stefan Voda District
  - Council of Iarova community, Soroca District
  - Council of Slobozia community, Stefan Voda District
  - Council of Soroca District
  - Council of Stefan Voda District
  - Council of Talmaza community, Stefan Voda District
  - Council of Zastrinca community, Soroca District

# MINISTERUL ECONOMIEI AL REPUBLICII MOLDOVA



# MINISTRY OF ECONOMY OF THE REPUBLIC OF MOLDOVA

MD-2033, Chişinğu, Piata Marii Adunări Naționale, 1 tel. +373-3-23-74-48, fax +373-2-23-40-64 E-mail: minecon@moldova.md

Nr. <u>08/1-1868</u> din <u>2705</u> 200<u>3</u> La nr. \_\_\_\_\_\_ din \_\_\_\_\_ 200  Piata Marii Adunari Nationale, MD-2033, Chisinau, tcl. +373-3-23-74-48, fax +373-2-23-40-64 E-mail: minecon@moldova.md

Dl. Soren TEJNO Reprezentant Permanent Oficiul PNUD Moldova

Stimate Domnule TEJNO,

Prin prezenta, Ministerul Economiei Vă prezintă alăturat Acordul dintre Guvernul Republicii Moldova și Oficiul PNUD pentru Acordarea Serviciilor de Suport semnat în două exemplare în limba engleză de către Dl. Ștefan Odagiu, Viceprim – ministru, Ministrul Economiei, Coordonator Național al PNUD.

Cu respect,

Marian/Lupu Viceministru

Ex: Aurelia Zaporojan Tel: 23 41 62 Expositions to be TAKEN:

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(unofficial translation)

## MINISTRY OF ECONOMY REPUBLIC OF MOLDOVA

#08/1 - 1868

from May 27, 2003

Mr. Soren Tejno Resident Representative UNDP Office in Moldova

Dear Mr. Tejno,

Hereby, the Ministry of Economy would like to submit you the Agreement between the Government of the Republic of Moldova and the UNDP Office for Provision of Support Services signed in two copies in English by Mr. Stefan Odagiu, Deputy Prime-Minister, the Minister of Economy, UNDP National Coordinator.

Sincerely,

Marian Lupu Deputy Minister

### AGREEMENT BETWEEN UNDP AND THE GOVERNMENT OF MOLDOVA FOR PROVISION OF SUPPORT SERVICES

Dear Mr. Odagiu,

- 1. Reference is made to consultations between officials of the Government of Moldova (hereafter referred to as "the Government") and officials of UNDP country office with respect to the provision of support services by the UNDP country office for nationally managed programmes and projects. UNDP and the Government hereby agree that the UNDP country office may provide such support services at the request of the Government through its Executing Agency designated in the relevant programme support document or project document, as described below.
- 2. The UNDP country office may provide support services for assistance with reporting requirements and direct payment. In providing such support services, the UNDP country office shall ensure that the capacity of the Government-designated institution is strengthened to enable it to carry out such activities directly. The costs incurred by the UNDP country office in providing such support services shall be recovered from the administrative budget of the office.
- 3. In addition, the UNDP country office may provide, at the request of the Executing Agent, the following support services for implementation activities:
  - (a) Identification and/or recruitment of project and programme personnel;
  - (b) Identification and facilitation of training activities, including fellowship, short-term training and study tours;
  - (c) Procurement of goods and services;
  - (d) Access to UNDP- managed global information system, the network of UNDP country offices and specialized system containing operations information, including rosters of consultants and providers of development services.
- 4. The procurement of goods and services and the recruitment of project and programme personnel by the UNDP country office shall be in accordance with the UNDP regulations, rules, policies and procedures. Support services described in paragraph 3 above shall be detailed in an annex to the programme support document or project document. If the requirements for support services by the country office change during the life of a programme or project, the annex to the programme support document or project document is revised with the mutual agreement of the UNDP Resident Representative and the Executing Agent.
- 5. The relevant provisions of the revised Standard Basic Assistance Agreement between the Government of the Republic of Moldova and the United Nations Development Programme, signed on October 2, 1992, in particular, the provisions of Article IX, paragraph 1, obligating the Government to apply the provisions of the Convention of Privileges and Immunities shall be deemed to apply mutatis mutandis to the provision of such support services. The Government shall retain overall responsibility for the nationally executed programme or project through its designated Executing Agent. The responsibility of the UNDP country office for the provision of the support services described herein shall be limited to the provisions of such support services detailed in the annex to the programme support document or project document.

- 6. Any claim or dispute arising under or in connection with the provision of support services by the UNDP country office in accordance with this letter shall be handled pursuant to the relevant provisions of the Standard Basic Assistance Agreement between the Government of the Republic of Moldova and the United Nations Development Programme, signed on October 2, 1992.
- 7. The manner and method of cost-recovery by the UNDP country office in providing the support services described in paragraph 3 above shall be specified in the annex to the programme support document or project document.
- 8. The UNDP country office shall submit progress reports on the support services provided and shall report on the costs reimbursed in providing such services, as may be required.
- 9. Any modification of the present arrangements shall be effected by mutual written agreements of the parties hereto.
- 10. If you are in agreement with the provisions set forth above, please sign and return to this office two signed copies of this letter. Upon your signature, this letter shall constitute an agreement between your Government and UNDP on the terms and conditions for the provision of support services by the UNDP country office for nationally executed programmes and projects.

Yours sincerely.

Signed on behalf of UNDP Moldova

Soren Teino,

Resident Representative

**UNDP** Moldova

For the Government Stelan Odagiu, Deputy Prime Minister Minister of Economy Republic of Moldova

g cose

Date:

#### **Attachment**

#### DESCRIPTION OF UNDP COUNTRY OFFICE SUPPORT SERVICES

- 1. Reference is made to consultations between the Ministry of Economy, the institution designated by the Government of Moldova and officials of UNDP with respect to the provision of support services by the UNDP country office for the nationally managed project, "Mainstreaming biodiversity conservation into Moldova's territorial planning policies and land use practices" (project id 81126, output id 90554), "the Project".
- 2. In accordance with the provisions of the letter of agreement and the *project document*, the UNDP country office shall provide support services for the *Project* as described below.
- 3. Support services to be provided:

Support services (insert description)	Schedule for provision of support services	the the	Cost to UNDP of providing such support services (where appropriate)	Amount and method of reimbursement of UNDP (where appropriate)
<ul> <li>Identification and/or recruitment of project and programme personnel</li> <li>Identification and facilitation of training activities</li> <li>Procurement of goods and services</li> </ul>	2015 - 2018		Apply UNDP Moldova Local Price List as well as UNDP corporate Universal Price List	36,773 USD The costs will be reimbursed as UNDP Cost recovery Charges-Bills

4. Description of functions and responsibilities of the parties involved:

UNDP Moldova will support the Ministry of Environment with implementation of support services according to the Agreement between the Government of Moldova and UNDP for the provision of support services of 2 October 1992, including identification and recruitment of project personnel, identification of training activities and assistance in carrying them out, procurement of goods and services, financial monitoring and reporting, processing of direct payments, supervision of project implementation, monitoring and assistance in project assessment. The Project will be implemented in line with UNDP rules and procedures (http://content.undp.org/go/userguide/results).

5. The total amount for provided support services will not exceed \$36,773.

#### **United Nations Development Programme**



**Empowered lives. Resilient nations.** 

#### Interoffice memorandum

To:

UNDP Moldova CO staff

UNDP Project Managers Heads of UN Agencies

From:

Narine Sahakyan

Resident Representative a.i.

Date:

20 February 2015

Subject: UNDP Moldova 2015 Local Price List (LPL)

With reference to the corporate UNDP policy to recover the full cost of services provided by UNDP at country office level, this is to inform you about updating of established Local Price List (LPL).

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The attached 2015 LPL rates based on UNDP Global UPL are effective 1 March 2015 and will be valid until further notice.

Should you need any additional information or clarifications on the attached, please do not hesitate to contact Ms. Tatiana Rybac, Head of Finance Unit (<a href="tatiana.rybac@undp.org">tatiana.rybac@undp.org</a>).

We take this opportunity to assure you that UNDP Moldova remains committed to provide services at the highest quality level.

#### **UNDP Moldova Local Price List**

Effective 1 March 2015

		Effective 1 March 2015			
	Services	Unit	Cost in US\$	Remarks	
	Finance Services				
1.	Payment Process (disbursement only)	per voucher	24.43	UPL	
2.	Issue check only (Atlas Agencies)	per voucher	11.28	UPL	
3.	Vendor profile only (Atlas Agencies only)	per vendor	12.06	UPL	
4	JV (10% from AP voucher cost)	per voucher	2.44		
5.	Payroll processing	per person per month	10.03		
6.	AR Management Process (create/apply receivable pending Item- Atlas Agencies Only)	per item	20.06	UPL	
7	Issue /Apply Deposit only	per item	12.30	UPL	
8.	Revenue management (incl. overall advise on templates, liaise with HQ for clearance and confirmation of receipt of contribution, upload to DMS, follow up and monitoring of installments)	per case (agreement)	68.80		
9.	VAT refund	per one refund	24.20		
10.	Issuance of power of attorney	per item	4.40		
11.	Issuance of bank confirmation/clarification letter	per letter	21.37		
12.	Issue VAT exemption letter	per letter	8.25		
13.	Bank card issue/renewai	per item	14.79		
14.	NEX advances (verification of FACE forms, ensure corrections If required, spot checks, generating NEX Advance aging reports, other periodic reporting)	per item	170.92		
15.	Donor reporting (non EU funded projects)	per item	44.38		
16.	Donor reporting (EU funded projects)	per item	99.56		
17.	Monitoring of PDRs/ UN Agency Advances (for projects which				
	have advances to UN Agencies)	per project	71.40		
18.	Budget Preparation / EU projects				
	- for initial budget preparation	per item	162.1 <b>3</b>	İ	
	- for subsequent budget revisions		90.99		
19.	Budget Preparation / non EU projects				
	- for initial budget preparation	per item	121.48		
	- for subsequent budget revisions		70.67		
	Hourly rate – to be used for calculation of costs for ad-hoc finance		14.00		
_	services, which were not included in the list above	The later	· =, ·		
	Human Resources Services		ur.		
20.	Staff selection and recruitment process		<b>334.99</b>		
	- Advertising	per one	67.00	UPL	
	- Short-listing	position	134.00		
	- Interviewing		134.00		
21.	Staff HR & Benefits Administration & Management (one-time fee, per staff at:  - the issuance of a contract, and - again at separation	per contract	124.20	UPL	
22.	Recurrent personnel management services: Staff Payroll &		277.13		
	Banking Administration & Management	annual fee per			
	- Payroll validation, disbursement	staff, per	97.000	UPL	
1	- Performance evaluation	calendar year	83.14		
l	<ul> <li>Extension, promotion, entitlements</li> </ul>		83.14	}	
	- Leave monitoring		13.86	1	
23.	Selection and recruitment process for long term personnel (under		414.80		
ı	SC modality)	per one		Ì	
	- Advertising	position	24.74		
	- Short-listing		173.37	ĺ	

	- Interviewing		216.69	
24.	Recruitment, based on the roster (instead of advertising, short-			
24.	listing and interviewing)	!	20.33	
25.	Interns management	per person	87.37	
26.	Issue/Renew IDs (UN LP)	per person	46.89	
27.	Issue/Renew Accreditation card	per person	89.20	
28.	UN Language Proficiency exam facilitation for the UN Agencies	per person	47.65	
20.	Hourly rate – to be used for calculation of costs for ad-hoc HR		14.00	
	services, which were not included in the list above			
	Scivices, which were not included in the list above		-1. h	
	Procurement Services		=	
	Procurement Services			
29.	Procurement process involving local CAP (and/or ITB, RFP		340.60	
25.	requirements)	per case		
	- Identification & selection		252.60	
	- Contracting/issue purchase order and follow-up		88.00	
30.	Procurement not involving local CAP (low value procurement)		125.11	
JU.	- Identification & selection	per contract	62.55	UPL
	- issue purchase order		31.28 <del>1</del>	
	- Follow-up		31.2 <u>8</u> 1	
31.	Consultant recruitment (IC)		141.70	
21.	- Advertising	per contract	26.60	
	- Advertising - Short-listing & selection	per contract	40.50	
	- Contract issuance		74.60	
22	Consultant recruitment (IC), based on the roster of experts	per contract	115.10	
32.	Consultant recruitment (IC) – under CSA arrangements	per contract	82.90	
33.	Micro-purchasing process	per contract	62.55	UPL
34.	LTA for translation services (ICs)	per request	31.28	UPL
35.		per request	31.28	UPL
36.	LTA for fuel	per request	20.80	
37.	LTA for travel (air-tickets)	per request	62.55	UPL
38.	LTA for IT equipment	per request	62.55	UPL
39.	LTA for Office equipment		26.45	- 011
40.	Transfer In - Transfer Out of assets	per case	154.78	UPL
41.	Disposal of equipment	per case	16.75	UPL
42.	Customs clearance (Agencies)	per letter		
43.	Customs clearance (Projects)	per letter	8.25	
	Hourly rate – to be used for calculation of costs for ad-hoc		14.00	
	procurement services, which were not included in the list above			
	Travel Services			
44.	Travel authorization	per request	21.25	UPL
	F10 settlement	per request	19.59	UPL
45.		per request	27.29	
46.	Visa request	per request	27.15	
47.	Ticket Request	per request	7.15	
48.	Hotel Reservation  Hourly rate – to be used for calculation of costs for ad-hoc travel	perrequest	14.00	
		1	14.00	
	services, which were not included in the list above			
49.	services, which were not included in the list above  General Administration Services		153	
49.	services, which were not included in the list above  General Administration Services  Airport VIP-Lounge arrangements (airport fee for use of the VIP-	per request	7.54	
49.	services, which were not included in the list above  General Administration Services  Airport VIP-Lounge arrangements (airport fee for use of the VIP-lounge is not included)	per request	7.54 34.07	
50.	services, which were not included in the list above  General Administration Services  Airport VIP-Lounge arrangements (airport fee for use of the VIP-lounge is not included)  Issuance of airport access card			
	services, which were not included in the list above  General Administration Services  Airport VIP-Lounge arrangements (airport fee for use of the VIP-lounge is not included)  Issuance of airport access card  Airport pick-up with UNDP vehicle			
50.	services, which were not included in the list above  General Administration Services  Airport VIP-Lounge arrangements (airport fee for use of the VIP-lounge is not included)  Issuance of airport access card		34.07	

-	Car registration	per case / one vehicle	125.46	
53.	Transportation services: shall be calculated as sum of cost for use of UNDP vehicle (US\$ per km) and UNDP Driver services (US\$ per hour)			
	cost of vehicle use	per km	0.61	
	<ul> <li>drivers' fee during working hours</li> </ul>	per hour	7.69	
	<ul> <li>drivers' fee after working hours, during weekends and official holidays</li> </ul>	per hour	11.54	
54.	Driving test performed by UNDP Driver:			
54.	- using UNDP vehicle	per one tested	8.92	
	- not using UNDP vehicle	candidate	4.62	
	Hourly rate – to be used for calculation of costs for ad-hoc general	Candidate	4.02	
	administration services, which were not included in the list above		14.00	
55.	Le Roi Conference facilities rent:			
<i>55</i> .				
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	per hour	3.00	
	• Room 2 (33.85 m2)	per hour	6.00	
	Big Room (153.9 m2)	per hour	25.00	
		death and the second		
	ICT Services			
56.	ICT Services Issue/Renew IDs (UN IDs, etc.)	per person	23.36	
56. 57.		per person per day	23.36 46.00	
	Issue/Renew IDs (UN IDs, etc.)			
57.	Issue/Renew IDs (UN IDs, etc.) PC rent	per day	46.00	
57. 58.	Issue/Renew IDs (UN IDs, etc.) PC rent Multimedia projector rent	per day per day	46.00 47.00	
57. 58. 59.	Issue/Renew IDs (UN IDs, etc.) PC rent Multimedia projector rent Videoconference equipment rent	per day per day per day	46.00 47.00 57.00	
57. 58. 59. 60.	Issue/Renew IDs (UN IDs, etc.) PC rent Multimedia projector rent Videoconference equipment rent Teleconference equipment rent	per day per day per day per day	46.00 47.00 57.00 46.00	
57. 58. 59. 60.	Issue/Renew IDs (UN IDs, etc.) PC rent Multimedia projector rent Videoconference equipment rent Teleconference equipment rent Support for Skype, teleconference, Videoconference, webinars	per day per day per day per day per session per account /	46.00 47.00 57.00 46.00 24.00	
57. 58. 59. 60.	Issue/Renew IDs (UN IDs, etc.) PC rent Multimedia projector rent Videoconference equipment rent Teleconference equipment rent Support for Skype, teleconference, Videoconference, webinars	per day per day per day per day per session	46.00 47.00 57.00 46.00	
57. 58. 59. 60. 61. 62.	Issue/Renew IDs (UN IDs, etc.) PC rent Multimedia projector rent Videoconference equipment rent Teleconference equipment rent Support for Skype, teleconference, Videoconference, webinars UNDP HQ fee for maintenance of undp.org email account	per day per day per day per day per session per account / per year	46.00 47.00 57.00 46.00 24.00 175.00	
57. 58. 59. 60. 61. 62.	Issue/Renew IDs (UN IDs, etc.) PC rent Multimedia projector rent Videoconference equipment rent Teleconference equipment rent Support for Skype, teleconference, Videoconference, webinars UNDP HQ fee for maintenance of undp.org email account Server administration	per day per day per day per day per session per account / per year per month	46.00 47.00 57.00 46.00 24.00 175.00 40.00	
57. 58. 59. 60. 61. 62.	Issue/Renew IDs (UN IDs, etc.) PC rent Multimedia projector rent Videoconference equipment rent Teleconference equipment rent Support for Skype, teleconference, Videoconference, webinars UNDP HQ fee for maintenance of undp.org email account Server administration Server installation	per day per day per day per day per session per account / per year per month per server	46.00 47.00 57.00 46.00 24.00 175.00 40.00 160.00	
57. 58. 59. 60. 61. 62. 63. 64.	Issue/Renew IDs (UN IDs, etc.) PC rent Multimedia projector rent Videoconference equipment rent Teleconference equipment rent Support for Skype, teleconference, Videoconference, webinars UNDP HQ fee for maintenance of undp.org email account Server administration Server installation Web sharing (up to 2GB and up to 1 month)	per day per day per day per day per session per account / per year per month per server per month	46.00 47.00 57.00 46.00 24.00 175.00 40.00 160.00 11.00	
57. 58. 59. 60. 61. 62. 63. 64. 65.	Issue/Renew IDs (UN IDs, etc.) PC rent Multimedia projector rent Videoconference equipment rent Teleconference equipment rent Support for Skype, teleconference, Videoconference, webinars UNDP HQ fee for maintenance of undp.org email account Server administration Server installation Web sharing (up to 2GB and up to 1 month) Printing (black and white)	per day per day per day per day per session per account / per year per month per server per month per page	46.00 47.00 57.00 46.00 24.00 175.00 40.00 160.00 11.00 0.03	
57. 58. 59. 60. 61. 62. 63. 64. 65. 66.	Issue/Renew IDs (UN IDs, etc.) PC rent Multimedia projector rent Videoconference equipment rent Teleconference equipment rent Support for Skype, teleconference, Videoconference, webinars UNDP HQ fee for maintenance of undp.org email account Server administration Server installation Web sharing (up to 2GB and up to 1 month) Printing (black and white) Printing (color)	per day per day per day per day per session per account / per year per month per server per month per page per page	46.00 47.00 57.00 46.00 24.00 175.00 40.00 160.00 11.00 0.03 0.13	
57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67.	Issue/Renew IDs (UN IDs, etc.) PC rent Multimedia projector rent Videoconference equipment rent Teleconference equipment rent Support for Skype, teleconference, Videoconference, webinars UNDP HQ fee for maintenance of undp.org email account Server administration Server installation Web sharing (up to 2GB and up to 1 month) Printing (black and white) Printing (color) UNDP servers Web hosting	per day per day per day per day per session per account / per year per month per server per month per page per page per month	46.00 47.00 57.00 46.00 24.00 175.00 40.00 160.00 11.00 0.03 0.13	
57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67.	Issue/Renew IDs (UN IDs, etc.) PC rent Multimedia projector rent Videoconference equipment rent Teleconference equipment rent Support for Skype, teleconference, Videoconference, webinars UNDP HQ fee for maintenance of undp.org email account Server administration Server installation Web sharing (up to 2GB and up to 1 month) Printing (black and white) Printing (color) UNDP servers Web hosting	per day per day per day per day per session per account / per year per month per server per month per page per page per month per account /	46.00 47.00 57.00 46.00 24.00 175.00 40.00 160.00 11.00 0.03 0.13 28.00	

### ANNEX 7: TERMS OF REFERENCE (PROJECT STAFF AND CONSULTANTS)

Position Titles	S/ person / week	Total weeks	Tasks to be performed				
PROJECT MANAGEMENT							
Project Manager (PM)	NT 242	125	<ul> <li>Supervise and coordinate the project to ensure its results are in accordance with the Project Document and the rules and procedures established in the UNDP Programming Manual</li> <li>Assume primary responsibility for daily project management - both organizational and substantive matters - budgeting, planning and general monitoring of the project</li> <li>Ensure adequate information flow, discussions and feedback among the various stakeholders of the project</li> <li>Ensure adherence to the project's work plan, prepare revisions of the work plan, if required</li> <li>Assume overall responsibility for the proper handling of logistics related to project workshops and events</li> <li>Prepare, and agree with UNDP on, terms of reference for national and international consultants and subcontractors</li> <li>Guide the work of consultants and subcontractors and oversee compliance with the agreed work plan</li> <li>Maintain regular contact with UNDP Country Office on project implementation issues of their respective competence</li> <li>Monitor the expenditures, commitments and balance of funds under the project budget lines, and draft project budget revisions</li> <li>Assume overall responsibility for meeting financial delivery targets set out in the agreed annual work plans, reporting on project funds and related record keeping</li> <li>Liaise with project partners to ensure their co-financing contributions are provided within the agreed terms</li> <li>Assume overall responsibility for reporting on project progress visavis indicators in the logframe</li> <li>Undertake any other actions related to the project as requested by UNDP</li> </ul>				
Administrative/Financial Assistant	161.2	125	<ul> <li>Provide all necessary support to the PM and other project staff in implementation of the project</li> <li>Assist the PM in managing administrative and finance issues and ensure that all information is accurate</li> <li>Prepare GEF quarterly project progress reports. as well as any other reports requested by the PM and UNDP</li> <li>Ensure collection of relevant data necessary to use in the SO-2 Tracking Tool</li> <li>Act as PM in case of his/ her absence</li> <li>Provide general administrative support to ensure the smooth running of the PMT</li> <li>Provide logistical support in conducting different project activities (training workshops, stakeholder consultations, arrangements of field visits, etc.)</li> <li>During the visits of foreign experts, manage their visa support, transportation, hotel accommodation etc.</li> <li>Organize control of budget expenditures by preparing payment documents, and compiling financial reports</li> <li>Maintain the project's disbursement ledger and journal</li> <li>Monitor the use of non-expendable equipment (record keeping, drawing up regular inventories)</li> <li>Arrange duty travel</li> <li>Perform any other administrative/ financial duties as requested by the PM</li> <li>Organize and coordinate the procurement of services and goods under the project</li> </ul>				

Position Titles	S/ person / week	Total weeks	Tasks to be performed
			Under supervision of the PM, be responsible for all aspects of project financial management
TECHNICAL ASSISTAN	NCE		
Local Biodiversity and Ecosystem Management Expert	350	80	Output 1.2. Will contribute to the biodiversity monitoring system to be put in place through:  • Developing and testing (prior to introducing) the drafts of Species/ Habitat Passports to landowners outside PAs (based on findings)
			from GEF/UNDP PAS Project that developed Passports for PA system)  • Assisting Forestry Expert in more accurate data input for species/ habitats (both vegetal and animal taxa) into forest management
			plans (FMPs)  • Assisting two selected Districts in improving District Environmental Plans (DEPs)
			Output 1.3. Will assist the Multi-Stakeholder Biodiversity Mainstreaming Committee (MSBMC) in incorporating and/or reflecting biodiversity conservation in the development, implementation and enforcement of the DSPs and LUPs for the selected districts, as well as looking beyond these
			Output 1.4. Will assist the project staff (namely the Legal expert) in:  • Designing the system of penalties for malfeasance to the approved DSPs and LUPs in accordance with the real value of biodiversity (or ecosystem) loss
			Reviewing the produced drafts of the DSPs and LUPs to ensure that such are in compliance with (i) national legislation, (ii) ratified conventions, and (iii) rational use of natural/biodiversity resources
Forestry Expert	350	20	Output 1.2. He/ she will closely cooperate with Biodiversity and Ecosystem Management Expert to contribute to:  • data input for species/habitats into forest management plans (FMPs) of two selected districts, based on biodiversity investigation with regard to the presence of rare and endangered species in the forestlands  • analyze and provide necessary amendments in the existing
			normative frame with regard to FMPs  cooperate with Moldsilva and, particularly, with the Soroca Forestry Enterprise and Tighina Forestry Enterprise in order to promote appropriate changes in the normative legal frame
Legal Expert	350	50	Output 1.1. Will provide appropriate modifications to land and forest legislation and related regulations and standards for mainstreaming biodiversity at national and local levels through:  comparative analysis of the national and international legal/normative framework per sector (e.g., agriculture, forestry and land planning), in order to develop proposals for changing/amending existing legislation and ensure inclusion of biodiversity conservation and issues of species vulnerability, habitats and
			<ul> <li>ecosystem goods and services during land use planning</li> <li>providing proposals for improving the Land Code (1991), based on a comparative analysis of existing legal frame related to land-use and sectoral legislation along with other environmental-related legislation so that biodiversity will have a clear place and role in the provisions made</li> <li>providing proposals on minimal standards for biodiversity</li> </ul>
			conservation in pasture/ livestock and hay-field management, arable farming, forest use, fishing and water-based recreation introduced in

Position Titles	\$/ person / week	Total weeks	Tasks to be performed
			relevant sectoral legislation (taking into account that legal frame needs to be improved based on species/ habitat requirements, e.g. certain old/dying trees left on a felling site, cattle/grazing limited for a certain period, certain steppe/pasture areas should not be grazed in early spring etc., and using complex approach to the use of natural resources). Special attention needs to be paid to private sector, which traditionally was left aside from environmental/biodiversity point of view, and appropriate proposal to legal frame to be made  Output 1.4. Will make proposals for a system of penalties for malfeasance to the approved DSPs and LUPs through:  Analyzing legal frame and developing penalty proposals commensurable with the loss in biodiversity, including biodiversity-friendly land use practices and the clarification in the mandates of the different agencies responsible for enforcement and prosecution  Revising existing fines, penalties and grazing taxes (including necessary proposals to amendments to the Administrative Code) in order to enable the efficacy in prevention of biodiversity-harmful activities  Analyzing opportunities for the increase of fines and penalties according to the real value of biodiversity (or ecosystem) loss and their applicability (evenly applicable) to all transgressors
Economy and Finance Expert	350	30	Output 1.1. Will provide appropriate proposals and rationale that will be used to modify the land and forest legislation and related regulations and standards for mainstreaming biodiversity at national and local levels, and namely for the increase of fines and penalties commensurable to real value/ loss of biodiversity, through:  • inputs to all project deliverables/ products that cover economic and financial aspects  • review all proposals related to possible modification/ amendment of existing legal frame produced within the project from an economic/ financial standpoint  • analyzing international legal frame and/or experience on fines/ penalties (including EU states and/or neighboring countries)  Output 2.5  • assessment of economic/ monetary values of biodiversity and ecosystem services in the two pilot districts, analyses of possible compensatory schemes and incentives and advocate for their adoption
GIS Expert	400	65	<ul> <li>Output 2.1: The expert will contribute to DSPs and LUPs accommodating biodiversity conservation for two selected districts (Soroca and Stefan Voda) through:</li> <li>Developing a spatially-based digital decision-making system for biodiversity conservation made available for use in policy development, cross-sectoral spatial planning and management</li> <li>Cooperation with Agency for Land Relations and Cadastre, Ministry of Environment and Academy of Sciences (Institute of Ecology and Geography, Institute of Botany, Institute of Zoology) in order to synchronize activities and make use of their resources</li> <li>Using existing portal/ platform and/ or also resources from existing land and/ or soil register (database) at ALRC</li> <li>Ensuring the 'biodiversity-related input' to the land database, including detailed biodiversity inventory and classification of all lands, information on the location of critical habitats and species, and thresholds for the use of biodiversity resources</li> <li>Taking into account assessments of the economic values of</li> </ul>

Position Titles	\$/ person / week	Total weeks	Tasks to be performed
			biodiversity and ecosystem services in areas of high biodiversity areas or in critical areas e.g. ecological corridors  • Testing the system and how it will work in practice
Communication and PR Consultant	350	75	<ul> <li>The Consultant, with the assistance and input of the PM and UNDP, will:</li> <li>Develop, after coordination among project staff and UNDP, a communication plan and take the lead in its implementation for the project duration</li> <li>Organize and facilitate, where needed, any communication or media events and/ or other campaigns</li> <li>Assist in developing and editing informative materials produced by the project</li> <li>Contribute to the webpage/ site development, including content creation and placement of information/ news</li> <li>Use social platforms for the promotion of projects activities and results as well as other related materials</li> <li>Effectively monitor and evaluate the communication/PR/media tools and activities to measure the impact of achieved activities</li> <li>Regularly liaise with Communication/PR specialists from the UNDP projects in the country</li> <li>Support in implementation of the Trainings, workshops and other awareness exercises of the project</li> </ul>
Local consultant for mid-term and final evaluation	500	12	He/she will assist and work with the international evaluation expert for mid-term and the final evaluations in order to assess the project progress, achievement of results and impacts. The expert will assist in developing a draft evaluation report, discuss it with the project team, government and UNDP, and as necessary participate in discussions to extract lessons for UNDP and GEF. The standard UNDP/GEF project evaluation TOR will be used.
International International evaluation expert for mid-term and the final evaluations	3,750	10	The international evaluation expert will lead the mid-term and the final evaluations. He/she will work with the local evaluation consultant in order to assess the project progress, achievement of results and impacts. The expert will develop a draft evaluation report, discuss it with the project team, government and UNDP, and as necessary participate in discussions to extract lessons for UNDP and GEF. The standard UNDP/GEF project evaluation TOR will be used.

### Main Sub-Contracts<sup>25</sup>

#### Subcontract 1

- Logistics for the inception workshop
- Design and implementation of the training programs for promoting integrated land and biodiversity/ ecosystem planning
- Land users training in mainstreaming biodiversity concerns in land use practices (10 trainings)
- Logistics for a one-week field visit to a neighboring country (e.g. Romania, Hungary) for approximately 20 representatives of key stakeholders to show the best practices and benefits of biodiversity-compatible district spatial (land-use) planning
- Services of publication of information materials, brochures, analytical and monitoring reports etc. (including promotional materials to ensure project visibility)

<sup>&</sup>lt;sup>25</sup> The project intends to sub-contract out some project activities as four different sub-contracts. More detailed TORs will be developed for each sub-contract, based on UNDP guidance, during the project inception phase.

#### Subcontract 2

- Developing biodiversity-compatible district DSPs for 2 districts
- Developing community LUPs for 4 selected communities (villages) to consider biodiversity and ecosystem continuity

#### Subcontract 3

- Developing grazing management plans (GMPs) for 4 selected communities
- Developing forest management plans (FMPs) for 4 selected communities
- Designing soil maps and reforestation schemes in selected pilots (4 corridors)

#### Subcontract 4

- Building ecological corridors through reforestation
- Restoration/ rehabilitation work for improving pastures/steppes/meadows implemented through small grants schemes

### ANNEX 8: UNDP ENVIRONMENTAL AND SOCIAL SCREENING CHECKLIST AND SUMMARY

The signed UNDP Environmental and Social Screening Checklist and Summary are attached as one separate file