### NATIONAL ACTION PLAN

on

Strengthening Capacity to Respond to Challenges of Biodiversity Conservation, Climate Change and Desertification / Land Degradation

(2006-2015)

### **Abbreviations**

USA - United States of America ANAS - Azerbaijan National Academy of Sciences OSCE - Organization for Security and Cooperation in Europe APU - Azerbaijan Pedagogical University UNO - United Nations Organization GEF - Global Environmental Facility NGO - Non-Government Organization GIS - Geographic Information System DP - Development Programme CDM - Clean Development Mechanism CIS - Commonwealth of Independent States MENR - Ministry of Ecology and Natural Resources SSC - State Statistics Committee AAA - Azerbaijan Agricultural Academy BSU - Baku State University MoA - Ministry of Agriculture SLMC - State Land and Mapping Committee MoI - Ministry of Industry of Health MoF - Ministry of Finance MoT - Ministry of Finance MoT - Ministry of Industry and Energy NP - National Parliament TM - Transport Ministry MFA - Ministry of Internal Affairs SCC - State Customs Committee UNITAR - United Nations Institute for Training and Research WWF - World Wide Fund for Nature CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna UNESCO - United Nations Organization for Education, Science and Culture MD - Millennium Declaration TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia WMO - World Meteorological Organization TRSS - TV Radio Stock Society	TTG 4	1			
OSCE         -         Organization for Security and Cooperation in Europe           APU         -         Azerbaijan Pedagogical University           UNO         -         United Nations Organization           GEF         -         Global Environmental Facility           NGO         -         Non-Government Organization           GIS         -         Geographic Information System           DP         -         Development Mechanism           CIS         -         Commonwealth of Independent States           MENR         -         Ministry of Ecology and Natural Resources           SSC         -         State Statistics Committee           AAA         -         Azerbaijan Agricultural Academy           BSU         -         Baku State University           MoA         -         Ministry of Agriculture           SLMC         -         State Land and Mapping Committee           MoJ         -         Ministry of Justice           MoE         -         Ministry of Education           MoH         -         Ministry of Health           MoF         -         Ministry of Taxes           MIE         -         Ministry of Industry and Energy           NP         -	USA	-	United States of America		
APU - Azerbaijan Pedagogical University UNO - United Nations Organization GEF - Global Environmental Facility NGO - Non-Government Organization GIS - Geographic Information System DP - Development Programme CDM - Clean Development Mechanism CIS - Commonwealth of Independent States MENR - Ministry of Ecology and Natural Resources SSC - State Statistics Committee AAA - Azerbaijan Agricultural Academy BSU - Baku State University MoA - Ministry of Agriculture SLMC - State Land and Mapping Committee MoJ - Ministry of Health MoF - Ministry of Health MoF - Ministry of Finance MoT - Ministry of Industry and Energy NP - National Parliament TM - Transport Ministry MIA - Ministry of Foreign Affairs MIA - Ministry of Foreign Affairs MIA - Ministry of Internal Affairs SCC - State Customs Committee UNITAR - United Nations Institute for Training and Research WWF - World Wide Fund for Nature CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna UNESCO - United Nations Organization WMO - World Meteorological Organization		-	· ·		
UNO - United Nations Organization GEF - Global Environmental Facility NGO - Non-Government Organization GIS - Geographic Information System DP - Development Programme CDM - Clean Development Mechanism CIS - Commonwealth of Independent States MENR - Ministry of Ecology and Natural Resources SSC - State Statistics Committee AAA - Azerbaijan Agricultural Academy BSU - Baku State University MoA - Ministry of Agriculture SLMC - State Land and Mapping Committee MoJ - Ministry of Iducation MoH - Ministry of Health MoF - Ministry of Finance MoT - Ministry of Industry and Energy NP - National Parliament TM - Transport Ministry MFA - Ministry of Foreign Affairs MIA - Ministry of Internal Affairs SCC - State Customs Committee UNITAR - United Nations Institute for Training and Research WWF - World Wide Fund for Nature CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna UNESCO - United Nations Organization World Meteorological Organization World Meteorological Organization		-	• • • •		
GEF - Global Environmental Facility NGO - Non-Government Organization GIS - Geographic Information System DP - Development Programme CDM - Clean Development Mechanism CIS - Commonwealth of Independent States MENR - Ministry of Ecology and Natural Resources SSC - State Statistics Committee AAA - Azerbaijan Agricultural Academy BSU - Baku State University MoA - Ministry of Agriculture SLMC - State Land and Mapping Committee MoJ - Ministry of Justice MoE - Ministry of Health MoF - Ministry of Finance MoT - Ministry of Taxes MIE - Ministry of Industry and Energy NP - National Parliament TM - Transport Ministry MFA - Ministry of Foreign Affairs MIA - Ministry of Internal Affairs SCC - State Customs Committee  WWF - World Wide Fund for Nature CTTES - Convention on International Trade in Endangered Species of Wild Flora and Fauna UNESCO - United Nations Organization  WMO - World Meteorological Organization		-	ů č		
NGO       -       Non-Government Organization         GIS       -       Geographic Information System         DP       -       Development Programme         CDM       -       Clean Development Mechanism         CIS       -       Commonwealth of Independent States         MENR       -       Ministry of Ecology and Natural Resources         SSC       -       State Statistics Committee         AAA       -       Azerbaijan Agricultural Academy         BSU       -       Baku State University         MoA       -       Ministry of Agriculture         SLMC       -       State Land and Mapping Committee         MoJ       -       Ministry of Justice         MoE       -       Ministry of Education         MoH       -       Ministry of Health         MoF       -       Ministry of Finance         MoT       -       Ministry of Taxes         MIE       -       Ministry of Industry and Energy         NP       -       National Parliament         TM       -       Transport Ministry         MFA       -       Ministry of Foreign Affairs         MIA       -       Ministry of Internal Affairs	UNO	-	United Nations Organization		
GIS - Geographic Information System DP - Development Programme CDM - Clean Development Mechanism CIS - Commonwealth of Independent States MENR - Ministry of Ecology and Natural Resources SSC - State Statistics Committee AAA - Azerbaijan Agricultural Academy BSU - Baku State University MoA - Ministry of Agriculture SLMC - State Land and Mapping Committee MoJ - Ministry of Institute MoE - Ministry of Education MoH - Ministry of Finance MoF - Ministry of Finance MoT - Ministry of Industry and Energy NP - National Parliament TM - Transport Ministry MFA - Ministry of Foreign Affairs MIA - Ministry of Internal Affairs SCC - State Customs Committee  UNITAR - United Nations Institute for Training and Research WWF - World Wide Fund for Nature CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna UNESCO - United Nations Organization for Education, Science and Culture MD - Millennium Declaration TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia WMO - World Meteorological Organization	GEF	-	Global Environmental Facility		
DP - Development Programme  CDM - Clean Development Mechanism  CIS - Commonwealth of Independent States  MENR - Ministry of Ecology and Natural Resources  SSC - State Statistics Committee  AAA - Azerbaijan Agricultural Academy  BSU - Baku State University  MoA - Ministry of Agriculture  SLMC - State Land and Mapping Committee  MoJ - Ministry of Justice  MoE - Ministry of Education  MoH - Ministry of Finance  MoT - Ministry of Finance  MoT - Ministry of Industry and Energy  NP - National Parliament  TM - Transport Ministry  MFA - Ministry of Foreign Affairs  MIA - Ministry of Industry and Research  WWF - World Wide Fund for Nature  CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - United Nations Organization for Education, Science and Culture  MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	NGO	-	Non-Government Organization		
CDM - Clean Development Mechanism  CIS - Commonwealth of Independent States  MENR - Ministry of Ecology and Natural Resources  SSC - State Statistics Committee  AAA - Azerbaijan Agricultural Academy  BSU - Baku State University  MoA - Ministry of Agriculture  SLMC - State Land and Mapping Committee  MoJ - Ministry of Justice  MoE - Ministry of Health  MoF - Ministry of Finance  MoT - Ministry of Taxes  MIE - Ministry of Industry and Energy  NP - National Parliament  TM - Transport Ministry  MFA - Ministry of Foreign Affairs  MIA - Ministry of Foreign Affairs  SCC - State Customs Committee  UNITAR - United Nations Institute for Training and Research  WWF - World Wide Fund for Nature  CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	GIS	-	Geographic Information System		
CIS - Commonwealth of Independent States  MENR - Ministry of Ecology and Natural Resources  SSC - State Statistics Committee  AAA - Azerbaijan Agricultural Academy  BSU - Baku State University  MoA - Ministry of Agriculture  SLMC - State Land and Mapping Committee  MoJ - Ministry of Justice  MoE - Ministry of Education  MoH - Ministry of Health  MoF - Ministry of Finance  MoT - Ministry of Industry and Energy  NP - National Parliament  TM - Transport Ministry  MFA - Ministry of Foreign Affairs  MIA - Ministry of Internal Affairs  SCC - State Customs Committee  UNITAR - United Nations Institute for Training and Research  WWF - World Wide Fund for Nature  CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	DP	-	Development Programme		
MENR - Ministry of Ecology and Natural Resources  SSC - State Statistics Committee  AAA - Azerbaijan Agricultural Academy  BSU - Baku State University  MoA - Ministry of Agriculture  SLMC - State Land and Mapping Committee  MoJ - Ministry of Justice  MoE - Ministry of Education  MoH - Ministry of Health  MoF - Ministry of Finance  MoT - Ministry of Industry and Energy  NP - National Parliament  TM - Transport Ministry  MFA - Ministry of Foreign Affairs  MIA - Ministry of Internal Affairs  SCC - State Customs Committee  UNITAR - United Nations Institute for Training and Research  WWF - World Wide Fund for Nature  CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	CDM	-	Clean Development Mechanism		
SSC - State Statistics Committee  AAA - Azerbaijan Agricultural Academy  BSU - Baku State University  MoA - Ministry of Agriculture  SLMC - State Land and Mapping Committee  MoJ - Ministry of Justice  MoE - Ministry of Education  MoH - Ministry of Finance  MoT - Ministry of Industry and Energy  NP - National Parliament  TM - Transport Ministry  MFA - Ministry of Foreign Affairs  MIA - Ministry of Internal Affairs  SCC - State Customs Committee  UNITAR - United Nations Institute for Training and Research  WWF - World Wide Fund for Nature  CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - United Nations Organization for Education, Science and Culture  MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	CIS	-	Commonwealth of Independent States		
AAA - Azerbaijan Agricultural Academy BSU - Baku State University MoA - Ministry of Agriculture SLMC - State Land and Mapping Committee MoJ - Ministry of Justice MoE - Ministry of Education MoH - Ministry of Finance MoT - Ministry of Taxes MIE - Ministry of Industry and Energy NP - National Parliament TM - Transport Ministry MFA - Ministry of Foreign Affairs MIA - Ministry of Internal Affairs SCC - State Customs Committee UNITAR - United Nations Institute for Training and Research WWF - World Wide Fund for Nature CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna UNESCO - Millennium Declaration TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia WMO - World Meteorological Organization	MENR	-	Ministry of Ecology and Natural Resources		
BSU - Baku State University  MoA - Ministry of Agriculture  SLMC - State Land and Mapping Committee  MoJ - Ministry of Justice  MoE - Ministry of Education  MoH - Ministry of Finance  MoT - Ministry of Taxes  MIE - Ministry of Industry and Energy  NP - National Parliament  TM - Transport Ministry  MFA - Ministry of Foreign Affairs  MIA - Ministry of Internal Affairs  SCC - State Customs Committee  UNITAR - United Nations Institute for Training and Research  WWF - World Wide Fund for Nature  CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	SSC	-	State Statistics Committee		
MoA       -       Ministry of Agriculture         SLMC       -       State Land and Mapping Committee         MoJ       -       Ministry of Justice         MoE       -       Ministry of Education         MoH       -       Ministry of Health         MoF       -       Ministry of Finance         MoT       -       Ministry of Taxes         MIE       -       Ministry of Industry and Energy         NP       -       National Parliament         TM       -       Transport Ministry         MFA       -       Ministry of Foreign Affairs         MIA       -       Ministry of Internal Affairs         SCC       -       State Customs Committee         UNITAR       -       United Nations Institute for Training and Research         WWF       -       World Wide Fund for Nature         CITES       -       Convention on International Trade in Endangered Species of Wild Flora and Fauna         UNESCO       -       United Nations Organization for Education, Science and Culture         MD       -       Millennium Declaration         TACIS       -       European Union Programme for Technical Assistance to CIS countries and Mongolia         WMO       -       World Met	AAA	-	Azerbaijan Agricultural Academy		
SLMC       -       State Land and Mapping Committee         MoJ       -       Ministry of Justice         MoE       -       Ministry of Education         MoH       -       Ministry of Health         MoF       -       Ministry of Finance         MoT       -       Ministry of Taxes         MIE       -       Ministry of Industry and Energy         NP       -       National Parliament         TM       -       Transport Ministry         MFA       -       Ministry of Foreign Affairs         MIA       -       Ministry of Internal Affairs         SCC       -       State Customs Committee         UNITAR       -       United Nations Institute for Training and Research         WWF       -       World Wide Fund for Nature         CITES       -       Convention on International Trade in Endangered Species of Wild Flora and Fauna         UNESCO       -       United Nations Organization for Education, Science and Culture         MD       -       Millennium Declaration         TACIS       -       European Union Programme for Technical Assistance to CIS countries and Mongolia         WMO       -       World Meteorological Organization	BSU	-	Baku State University		
MoJ       - Ministry of Justice         MoE       - Ministry of Education         MoH       - Ministry of Health         MoF       - Ministry of Finance         MoT       - Ministry of Industry and Energy         MIE       - Ministry of Industry and Energy         NP       - National Parliament         TM       - Transport Ministry         MFA       - Ministry of Foreign Affairs         MIA       - Ministry of Internal Affairs         SCC       - State Customs Committee         UNITAR       - United Nations Institute for Training and Research         WWF       - World Wide Fund for Nature         CITES       - Convention on International Trade in Endangered Species of Wild Flora and Fauna         UNESCO       - United Nations Organization for Education, Science and Culture         MD       - Millennium Declaration         TACIS       - European Union Programme for Technical Assistance to CIS countries and Mongolia         WMO       - World Meteorological Organization	MoA	-	Ministry of Agriculture		
MoE       -       Ministry of Education         MoH       -       Ministry of Health         MoF       -       Ministry of Finance         MoT       -       Ministry of Taxes         MIE       -       Ministry of Industry and Energy         NP       -       National Parliament         TM       -       Transport Ministry         MFA       -       Ministry of Foreign Affairs         MIA       -       Ministry of Internal Affairs         SCC       -       State Customs Committee         UNITAR       -       United Nations Institute for Training and Research         WWF       -       World Wide Fund for Nature         CITES       -       Convention on International Trade in Endangered Species of Wild Flora and Fauna         UNESCO       -       United Nations Organization for Education, Science and Culture         MD       -       Millennium Declaration         TACIS       -       European Union Programme for Technical Assistance to CIS countries and Mongolia         WMO       -       World Meteorological Organization	SLMC	-	State Land and Mapping Committee		
MoH-Ministry of HealthMoF-Ministry of FinanceMoT-Ministry of TaxesMIE-Ministry of Industry and EnergyNP-National ParliamentTM-Transport MinistryMFA-Ministry of Foreign AffairsMIA-Ministry of Internal AffairsSCC-State Customs CommitteeUNITAR-United Nations Institute for Training and ResearchWWF-World Wide Fund for NatureCITES-Convention on International Trade in Endangered Species of Wild Flora and FaunaUNESCO-United Nations Organization for Education, Science and CultureMD-Millennium DeclarationTACIS-European Union Programme for Technical Assistance to CIS countries and MongoliaWMO-World Meteorological Organization	MoJ	-	Ministry of Justice		
MoF       - Ministry of Finance         MoT       - Ministry of Taxes         MIE       - Ministry of Industry and Energy         NP       - National Parliament         TM       - Transport Ministry         MFA       - Ministry of Foreign Affairs         MIA       - Ministry of Internal Affairs         SCC       - State Customs Committee         UNITAR       - United Nations Institute for Training and Research         WWF       - World Wide Fund for Nature         CITES       - Convention on International Trade in Endangered Species of Wild Flora and Fauna         UNESCO       - United Nations Organization for Education, Science and Culture         MD       - Millennium Declaration         TACIS       - European Union Programme for Technical Assistance to CIS countries and Mongolia         WMO       - World Meteorological Organization	MoE	-	Ministry of Education		
MoT - Ministry of Taxes  MIE - Ministry of Industry and Energy  NP - National Parliament  TM - Transport Ministry  MFA - Ministry of Foreign Affairs  MIA - Ministry of Internal Affairs  SCC - State Customs Committee  UNITAR - United Nations Institute for Training and Research  WWF - World Wide Fund for Nature  CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - United Nations Organization for Education, Science and Culture  MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	МоН	-	Ministry of Health		
MIE - Ministry of Industry and Energy  NP - National Parliament  TM - Transport Ministry  MFA - Ministry of Foreign Affairs  MIA - Ministry of Internal Affairs  SCC - State Customs Committee  UNITAR - United Nations Institute for Training and Research  WWF - World Wide Fund for Nature  CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - United Nations Organization for Education, Science and Culture  MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	MoF	-	Ministry of Finance		
NP - National Parliament  TM - Transport Ministry  MFA - Ministry of Foreign Affairs  MIA - Ministry of Internal Affairs  SCC - State Customs Committee  UNITAR - United Nations Institute for Training and Research  WWF - World Wide Fund for Nature  CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - United Nations Organization for Education, Science and Culture  MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	MoT	-	Ministry of Taxes		
TM - Transport Ministry  MFA - Ministry of Foreign Affairs  MIA - Ministry of Internal Affairs  SCC - State Customs Committee  UNITAR - United Nations Institute for Training and Research  WWF - World Wide Fund for Nature  CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - United Nations Organization for Education, Science and Culture  MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	MIE	-	Ministry of Industry and Energy		
MFA - Ministry of Foreign Affairs  MIA - Ministry of Internal Affairs  SCC - State Customs Committee  UNITAR - United Nations Institute for Training and Research  WWF - World Wide Fund for Nature  CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - United Nations Organization for Education, Science and Culture  MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	NP	-	National Parliament		
MIA - Ministry of Internal Affairs  SCC - State Customs Committee  UNITAR - United Nations Institute for Training and Research  WWF - World Wide Fund for Nature  CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - United Nations Organization for Education, Science and Culture  MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	TM	-	Transport Ministry		
SCC - State Customs Committee  UNITAR - United Nations Institute for Training and Research  WWF - World Wide Fund for Nature  CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - United Nations Organization for Education, Science and Culture  MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	MFA	-	Ministry of Foreign Affairs		
UNITAR - United Nations Institute for Training and Research WWF - World Wide Fund for Nature  CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - United Nations Organization for Education, Science and Culture  MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	MIA	-	Ministry of Internal Affairs		
WWF - World Wide Fund for Nature  CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - United Nations Organization for Education, Science and Culture  MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	SCC	-	State Customs Committee		
CITES - Convention on International Trade in Endangered Species of Wild Flora and Fauna  UNESCO - United Nations Organization for Education, Science and Culture  MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	UNITAR	-	United Nations Institute for Training and Research		
Flora and Fauna  UNESCO - United Nations Organization for Education, Science and Culture  MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	WWF	-	World Wide Fund for Nature		
UNESCO - United Nations Organization for Education, Science and Culture  MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	CITES	-	Convention on International Trade in Endangered Species of Wild		
MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization			Flora and Fauna		
MD - Millennium Declaration  TACIS - European Union Programme for Technical Assistance to CIS countries and Mongolia  WMO - World Meteorological Organization	UNESCO	-	United Nations Organization for Education, Science and Culture		
countries and Mongolia WMO - World Meteorological Organization	MD	-	Millennium Declaration		
WMO - World Meteorological Organization	TACIS	-	European Union Programme for Technical Assistance to CIS		
			countries and Mongolia		
TRSS - TV Radio Stock Society	WMO	_	World Meteorological Organization		
	TRSS	_	TV Radio Stock Society		

#### **Table of Contents**

Introduction	•••••	
		ENT IN THE AREA OF GLOBAL ENVIRONMENTAL
1.1.	Thematic assessment	on biodiversity
1.2.	Thematic assessment	on climate change
1.3.	Thematic assessment	on combating desertification/soil degradation
	JTTING ISSUES IN TI ENTAL CHALLENGE	HE THREE CONVENTIONS ON GLOBAL ES
2.1. Id	lentifying priority issue	s
2.2. C	rosscutting priority issu	nes
III. NATION	AL ACTION PLAN	
3.1. Overview	v of the activities plann	ing process
3.2. Actions I	Plan	
3.2.1	National priority 1.	Enhancement of public environmental awareness raising
3.2.2	National priority 2.	Enhancement of forest management mechanisms
	Implementation of com	nmitments on specific areas arising out of provisions of

#### Introduction

As a result of a drastic rise of needs for natural resources linked to the growth of the world population, globalisation of economy, development of industry, uneven access to modern technologies, global climate change, the acceleration of desertification, decline in biodiversity, and similar factors impacts on the environment tend to increase in recent years.

Presently, the whole mankind is getting more and more concerned about global environmental challenges and these issues are now being considered by the developed and developing countries of the world both at political and economic levels.

In order to reduce the increasingly growing impact on the environment to a minimum there is a necessity in strengthening activities of the world community and international organizations.

Pursuant to a decision by the board of Global Environmental Facility (GEF) support provided by GEF to countries with economy in transition for needs assessment and strengthening capacity in the protection of the global environment is part of the aforementioned activities.

The main objective of needs assessment and strengthening capacity by countries is to build an independent capacity in the area of global environmental protection as well as biodiversity conservation, combating climate change and desertification / soil degradation by taking account of provisions of the three international Conventions.

Azerbaijan has joined more than 20 international environmental conventions and agreements. Azerbaijan has assumed important commitments as a party to these conventions and agreements.

In the course of implementation of the conventions on biodiversity conservation, combating climate change and desertification / soil degradation the following commitments have been identified:

- doing researches;
- preparing reports;
- training of specialists;
- public awareness raising;
- facilitating exchange of information at national level;
- strengthening capacity at systemic, institutional and individual levels, etc.

Cooperation with international organizations plays a particular role in the fulfilment of these commitments assumed by Azerbaijan.

In the course of implementation of the project on National Needs Assessment towards Strengthening Capacity to Overcome Challenges of Biodiversity Conservation, Climate Change and Desertification / Soil Degradation within the framework of cooperation with United Nations Development Programme (UNDP) and under the support of GEF the three Conventions (on biological diversity, climate change, and combating desertification) were reviewed and a national report was prepared on each thematic area.

Integrated and complementary approach has been identified for the preparation of the National Action Plan on strengthening capacity in the area of global environmental challenges.

To this end crosscutting issues in the area of protection of the global environment in Azerbaijan have been identified on each of the three thematic areas, the challenges analysed and action plan on their tackling prepared.

While preparing the action plan the following was taken as essential:

- identification of crosscutting issues for each of the three thematic areas;
- improvement of national procedures on the implementation of international conventions;
- development of a system on gathering data and reports intended for resolving crosscutting issues during the implementation of the conventions;
- expanding monitoring and research activities in compliance with the provisions of the three Conventions.

Ministry of Ecology and Natural Resources of the Republic of Azerbaijan (MENR) is the focal authority responsible of the project implementation.

The financial support for the implementation of the proposed national Action Plan in 2006-2015 is deemed to be shared by the Government of Azerbaijan, international donors and private entities on a 50 to 50 basis.

## I. NATIONAL NEEDS ASSESSMENT IN THE AREA OF GLOBAL ENVIRONMENTAL CHALLENGES

#### 1.1. Thematic assessment on biodiversity

At present time serious threats to biodiversity of the globe have arisen as a result of anthropogenic impacts. As a consequence of human activities a number of species of animals and plants have become extinct while some of them are threatened with extinction. As a solution to this issue of concern 156 states adopted a United Nations Convention on Biodiversity at Rio-de-Janeiro in 1992.

Noting the significance of the issue the Republic of Azerbaijan ratified the UN Convention on Biodiversity in 2000 and Cartahena Protocol thereto in 2005.

#### 1.2.1. Current state of biodiversity

Azerbaijan enjoys the richest biodiversity in the Caucasus region. Throughout 9 climatic zones up to 4500 species of higher plants have been recorded which accounts for 64 percent of the Caucasus overall species composition. Of these plants 7 percent or 240 species are endemics and relicts belonging with 108 genera and 36 families.

18 thousand species of fauna were recorded within the country's area. The present day fauna of Azerbaijan includes 97 species and sub-species of mammals, 357 species and sub-species of birds, 125 species and sub-species of fish, 67 species and sub-species of reptiles and amphibians and about 15 thousand species of insects.

A number of species of flora and fauna listed in the Red Data Book of the Five Caspian littoral states can be found at sea and in the coastal area. Migratory routes of a number of rare and endangered birds lie across the Caspian Sea.

To ensure biodiversity conservation Ministry of Ecology and Natural Resources has undertaken complex actions on establishing new specially protected nature areas, enlarging the area of existing nature sites, strengthening protection mode and setting up relevant infrastructure in these areas. Starting from 2001 six national parks (Ordubad after Academician Hasan Aliyev, Shirvan, Ag-gol, Hirkan, Altiaghaj, Absheron), two state nature reserves (Shahbuz, Eldar Pine), one state nature sanctuary (Gakh) have been established, the area of five state nature sanctuaries (Garayazi, Ismayilli, Pirigulu, Turyanchay) have been expanded. As a result of these actions the area of specially protected sites in the country having expanded twice as much as in 2001 have accounted for 593110 hectares, i.e. have been increased from 4 percent to 8 percent of the total country's area. This, in its turn, has created conditions in the country for conservation and further development of biodiversity threatened with decline.

To facilitate the fulfilment of commitments assumed the Republic of Azerbaijan including the implementation of complex measures on eliminating threat of extinction of genetic pool of plants, animals, microorganisms a State Commission on the Protection of Genetic Pool was established in 2002 by a relevant order of the President of the Azerbaijan Republic.

Under the support of GEF, UNDP, Flora and Fauna International Biodiversity Strategy and Action Plan in the Republic of Azerbaijan was prepared in 2004. The Action Plan covers a period of five years (2004-2008) and identifies priority actions. Although the envisioned

actions do not encompass all the issues of biodiversity in Azerbaijan, they will contribute to the enhancement of the existing conditions in this area.

Despite the achievements a number of biodiversity conservation issues remain unresolved.

The following factors also negatively affect biodiversity in terms of decline in the number of species:

- loss or change of habitats;
- commercial use of biological resources;
- unsystematic or uninterrupted cattle grazing in pastures, failure to meet grazing standards, poor activities on the recovery of grasslands;
- contamination of the environment (soil and water resources) in industrial zones and adjacent areas by industrial wastes;
- failure to observe rules ensuring protection of wild animals while mowing grass or crops, burning plant residues in the mown cropland;
- use of unregistered pesticides and fertilizers of poor quality;
- contamination of soil by oil and oil products, etc.

In addition, 44,3 thousand hectares of specially protected nature sites of the country has been occupied by Armenia. These are two state nature reserves including Bastichay reserve which is represented by stands of Eastern Plane and ranked first in Europe and second in the world (after Canada) and 4 state nature sanctuaries. Similarly, a large part of summer pastures are also under occupation. According to some sources of information natural resources of these areas are ruthlessly exploited and as a consequence a serious damage is caused to biodiversity.

#### Overview of capacity in biodiversity conservation

According to the provisions provided in the Convention capacity in biodiversity conservation is defined by the total of goals identified by scientific-research institutions government bodies, civil society, communities and individuals in their activities in this area and their capabilities to achieve them.

Environmental subjects are taught at environmental education and practical training centres and 47 higher and 60 high educational institutions of the country's educational system. Most of these educational institutions are financed from the state budget. A staff of over 20 thousand teachers is engaged in this area. Graduates with a higher degree in environmental sciences are taught at Baku State University (BSU), State Management Academy (SMA), Academy of Agriculture (AA), University of Architecture and Construction (UAC) and other state and private higher educational institutions. Personnel of relevant agencies regularly attend extension and vocational courses overseas.

Activities of many ministries and other government bodies, public organizations in Azerbaijan is closely linked to with the biodiversity area. While their general objectives in the protection and conservation of biodiversity are the same, their areas of activities, responsibilities, commitments, methods and approaches applied are different. In order to avoid disconnection and replication in the use of capacity there is a need for the creation of good coordination system among institutions and determination of areas of responsibility, functions, commitments and allocated budget of each agency while drafting legislative acts and national programmes pertinent to this area.

A separate law on biodiversity conservation has not been adopted in the Republic of Azerbaijan. However, 24 laws on biodiversity conservation and regulatory acts on the

execution of these laws have been adopted. The majority of laws and regulatory acts have been adopted in the country after accession of Azerbaijan to the Convention on biodiversity and they generally meet provisions of the Convention.

A current state of biodiversity in Azerbaijan and increasingly growing attention to this issue make significant the implementation of urgent actions. Laws, national and foreign state policy and adopted programmes pertinent to this area mainly encompass those commitments that need to be implemented. However, there are obvious discrepancies between real activities and objectives set forth in the programmes. That is to say, the real activities lag behind the process of biodiversity changes.

The main reason for poor biodiversity conservation activities is limited financial resources. Problems in the Republic of Azerbaijan that are inherent in the transition period and aggravated by a political situation (refugees and internally displaced persons, loss of the potential of the occupied areas) make it impossible to finance the implementation of programmes on biodiversity conservation as well as fulfilment of the commitments under the Convention. Investments into this area are impeded by the obvious fact that revenues from the protection and sustainable use of biodiversity can be gained in long-term perspective. The mobilization of human resources, the institutional enhancement and development of cooperation all requires the attraction of financial resources.

The analysis of activities of agencies concerned demonstrates that the present coordination and cooperation in biodiversity conservation do not meet the required standards. There is no awareness among the communities about materials on the Convention, laws, regulatory documents and programmes. Donor organizations and international institutions capable of making investment are reluctant to provide financial support to the resolution of the problems because of a lack of clear understanding of the situation in this area.

#### Major needs in biodiversity conservation

To develop capacity in biodiversity conservation in Azerbaijan to the required level the following needs should be met:

1) Enhancement of the legislation on biodiversity;

At present there are ongoing activities on bringing the legislation on biodiversity in the country to the European standards.

There is a need for the adoption of the following laws and regulatory acts:

- Law on biodiversity conservation;
- Law on plants protection;
- Law on biosafety;
- Law on national parks;
- Regulatory document on the establishment of a specially protected nature areas and monuments Fund;
- Regulatory acts on rehabilitation centres within national parks and animal nurseries;
- Regulatory document on the restocking, propagation and sustainable use of medicinal herbs.
- 2) Expansion of the area of specially protected nature sites;

There are ongoing activities on expanding the total area of specially protected nature sites so that it constitutes 10% of the country's total area. On the other hand overcoming such challenges as a lack of the required infrastructure in specially protected nature areas, poor knowledge and awareness of the public about specially protected nature areas, reluctance of the private sector to take part in the development of specially protected nature areas and similar others is of the foremost responsibility in front of us.

3) Enhancement of mechanisms of making biodiversity inventory;

With a view to making inventory of wild animal species in the Republic of Azerbaijan annually during appropriate seasons a census of mammals in autumn (in October) and birds in winter (January) is carried out.

For ensuring complete and detailed biodiversity inventory there is a need for the involvement of locals and communities into this process and strengthening activities in raising their awareness in this area.

4) Strengthening scientific research capacity for the assessment of biodiversity within the country;

The development of capacity in the following directions is deemed to be appropriate:

- systematisation of findings of scientific research activities carried out in the area of biodiversity and their evaluation in terms of suitability for further application;
- application of suitable findings in pilot projects and subsequently on a larger scale;
- evaluation of the coherence between the subjects of researches currently ongoing in the country as well as level of their implementation and a state of biodiversity protection and making changes to thematic plans if need be;
- Stimulating the implementation of scientific research activities encompassing all forms of biodiversity protection processes (physical, biological, social, economic, etc.);
- Investigation of issues relating to the role of social ecology in the sustainable development conception and aspects of social-economic researches in the filed of the environment. Entering into a database information on all actions implemented in this area making use of all means to make available the knowledge to stakeholders.
- 5) Development of curricula related to biodiversity conservation for all layers of the society and their execution;

Paying attention in the curricula to aspects coherent to national circumstances, the accumulation, development and exchange of information in these curricula as well as training of personnel capable of promoting the setting-up of early warning systems.

6) Enhancement of a system of public awareness raising in biodiversity conservation issues;

Poor knowledge of biodiversity conservation issues by different layers of the society, unsatisfactory involvement of NGOs into this area, insufficient level of information exchange system in biodiversity, poor public awareness raising about biodiversity conservation issues and other shortcomings urge the need the enhancement of a system of public awareness raising about biodiversity conservation issues.

Activities and actions that are envisioned to be undertaken and implemented in this area can be more useful as opposed to administrative methods.

#### 7) Enhancement of a forest management mechanism

One of the challenges of biodiversity conservation in Azerbaijan is linked to limited habitat for the existence and reproduction of a number of rare and endangered species. The role of forests is indispensable for the conservation and normal development of fauna and flora species and ensuring their diversity. The main problem of forest development in the country is the anthropogenic impact on forests. The long-term experience shows that the elimination of these impacts is impossible without enhancement of the forest management mechanism.

Therefore, the application of new mechanisms in the management of multifunctional forests is an important precondition for biodiversity conservation.

#### 1.2. Thematic assessment on climate change

With the purpose of preventing present and future climate change 150 states of the world signed the UN Framework Convention on Climate Change at United Nations Conference on Environment and Development in Rio de Janeiro in 1992.

The basic purpose of the Convention is to maintain such a level of greenhouse gases concentration in atmosphere so that the climatic system is not faced with a threat of harmful anthropogenic impact. Such level can be maintained within a certain timeframe on condition that ecosystems are capable of keeping up with a trend of the climatic change while the manufacture of food products and future economic development are not jeopardized.

The National Parliament (Milli Mejlis) of the Republic of Azerbaijan ratified the United Nations Framework Convention on Climate Change on January 10, 1995 and the country has become a party to the Convention since May 16 of the same year.

#### 1.3.1 Present state of climate change issues

In recognition of urgency of the issue in the country a State Commission on Climate Change composed of heads of relevant ministries, committees and companies was established in 1997 so as to ensure the implementation of commitments under the Convention.

The Republic of Azerbaijan, as a Party to UN Framework Convention on Climate Change and non-Annex 1 country has taken a commitment to develop and implement national and regional programs aimed at reducing the expected impact of Global Climate Change and publish those programs making them available to the general public.

As a non-Annex 1 country, Azerbaijan submits its National Communications to the Conference of the Parties to the Convention every three years provided that financial resources are available for that.

The first step of the Republic of Azerbaijan in terms of fulfilling the commitments under Articles 4 and 12 of the Convention was "Initial National Communication of Republic of Azerbaijan" project under the financial support of Global Environment Facility and United Nations Development Programme provided to developing countries.

"Self-assessment towards developing a project proposal for the Second National Communication of Republic of Azerbaijan to UNFCCC" project developed by MENR has been submitted to and approved by GEF. The project on Second National Communication of the Republic of Azerbaijan is expected to commence on January 1<sup>st</sup>, 2006.

Kyoto Protocol the aim of which is to strengthen commitments of developed countries to reduce quantitative indicators of greenhouse gases emissions was adopted at the 3<sup>rd</sup> Conference of the Parties to UN Framework Convention on Climate Change in December 1997 in Kyoto, Japan. At present 144 countries have ratified the Kyoto Protocol.

The Parliament of the Republic of Azerbaijan ratified the Kyoto Protocol which is Annex to the UN Framework Convention on Climate Change on July 18<sup>th</sup>, 2000.

The Kyoto Protocol took effect on February 16<sup>th</sup>, 2005 following its ratification by the Russian Federation.

Azerbaijan has not assumed quantitative commitments under the Convention.

Clean Development Mechanism (CDM) is defined in Article 12 of the Kyoto Protocol. Azerbaijan as non-Annex 1 party can only participate in CDM.

Clean Development Mechanism envisions activities towards the abatement of greenhouse gases emissions under projects implemented by developed countries in developing countries. The amount of greenhouse gases reduced during the project implementation is added to the quota of the developed country.

The purpose of Clean Development Mechanism is to provide support to non-Annex 1 Parties with a view to maintaining stable development of developed countries and achieving the ultimate goal of the Convention and also, according to item 3, provide assistance to non-Annex 1 Parties in the fulfillment of quantitative obligations concerning restriction and reduction of emissions.

#### 1.3.2 Overview of capacity on climate change

Prediction of expected climate change is based on the general circulation models of atmosphere based on recommendations of the Intergovernmental Panel on Climate Change. In addition to this, efforts are undertaken to make prognosis based on artificial scenarios developed by scientists from the National Academy of Sciences (NAS).

Carried out researches show that expected changes in climate will result in serous repercussions in the following key areas:

- Inundation of coastal areas, precarious situation of coastal ecosystems, aggravation of coastal erosion processes
- Increase in adverse impact on human health and biodiversity
- Increase in adverse impact on water and forest resources, agricultural lands and other ecosystems which are easily susceptible to climate

Although the reduction of greenhouse gases concentration is an important factor, the role of the elaboration and implementation of adaptation actions to mitigate damage to be caused by irreversible character of climate changes is indispensable.

The collection of initial data is one of the main criteria facilitating the preparation of the national cadastre of greenhouse gases. In this regard, the reliability of data and their conformity to the methodology is one of the important issues.

It should be noted that information on the amount of greenhouse gases has to date been made available for the public in reports of State Statistics Committee (SSC). In view of this, activities are being undertaken by MENR in partnership with SSC. It is envisioned to supplement information on environment pollution provided by the statistics service of the country with data on greenhouse gases and ozone depleting substances and in the second phase, to enhance fuel to energy balance to international standards and methodology.

One of the obstacles for the preparation of the cadastre is a lack of cooperation on the part of companies and joint ventures in providing relevant data to SSC.

Taking account of the aforementioned the implementation of actions in these directions is of paramount importance.

The main objective of the economic policy of the government of Azerbaijan as a country with economy in transition is to promote sustainable social-economic development. In addition, methods promoting economic development should take account of environmental standards and concerns. This is first of all linked to the effective use of natural resources, replacement of energy capacious technologies and application of technologies that reduce greenhouse gases emissions. A way out from the crisis in this area is seen by the government of Azerbaijan in the effective use of natural resources, utilization of alternative energy sources (solar, wind, water, biogas, etc.) and environmentally friendly technologies at the existing heating and electric power stations.

The promotion of public awareness raising about contemporary methods of rational use of energy resources is one of the important tasks.

#### 1.3.3 Major needs in the area of climate change

The following needs should be met in order to develop the climate change capacity to the required level:

1) Climate change impact assessment and implementation of adaptation measures;

To this end it is important to develop a national programme on the use of water resources while taking account of National Programme on Climate and climate change impact assessment, to regularly inform the public about expected changes in seasonal and territorial distribution of water resources, organize trainings for personnel of the forestry sector, elaborate national legislative acts relating to the Caspian Sea, promote awareness raising among the communities of coastal zones about sea level fluctuations in the Caspian, raise awareness among specialists and communities engaged in the agricultural sector about climate change challenges, develop a national strategy by taking account of climate change issues in the agricultural sector, implement scientific research activities in the area of biometeorology and protection of climate dependent human health and make assessment of climate change impact on wetlands and biodiversity and elaborate adaptation measures.

In addition, there is a need for ensuring systematic observations of climate and consequently, fundamental replacement of infrastructure and technical base of the

observation network, increasing the number of precipitation gauging stations in highlands, studying a state of glaciers and trends in the change of snowlines, carrying out observations for tracing CO2 emissions as well as setting up internet network in all structural units.

#### 2) Enhancement of forest management mechanisms;

There is a need for the protection and rehabilitation of forests in the country and their management based on new approaches in conformity with market economy mechanisms. To this end, it is appropriate in the first instance to incorporate Kyoto Protocol mechanisms (stimulation of forest planting on lands under different ownership, lease of forestland, planting forest tracks of commercial significance, regulation of taxation system, etc.) into the national legislation.

#### 3) Education and awareness raising on climate change;

It is required to promote continuous environmental education at all levels of education (particularly on climate change), equip technical base to modern standards, ensure high level training of personnel to teach environmental subjects at schools, create a database along with providing access to computers and internet, organize trainings for enhancing knowledge of specialists on climate change, prepare educational manuals, programmes, methodological and visual facilities, create a modern library stock, regularly disseminate information about present and future effects of climate change among decision-makers and a wide-range of public groups.

To ensure continuous long-term human resources development it would be appropriate to organize qualification enhancement courses at World Meteorological Organization's Regional Training Centres, internships in developed countries for exchange of experience as well as training courses to master computer software and learn foreign languages.

#### *4) Preparation of a cadastre of green house gases;*

The following preconditions are considered necessary for the preparation of a cadastre of green house gases as part of the Second National Communication of the Republic of Azerbaijan:

- Undertaking relevant actions for the Improvement of the National Cadastre System;
- Modernization of the structure of Climate Change and Ozone Centre affiliated with Ministry of Ecology and Natural Resources in conformity with the provisions of the Convention;
- Development of methodologies to advanced practice;
- Creation of a modern network and database of GHGs;
- Inclusion of information on GHGs into reports on pollution by enterprises;
- Long-term plan based human resources development;
- Organizing systematic training courses for specialists of relevant ministries and other institutions;
- Learning advance practice of the Intergovernmental Panel on Climate Change;
- Preparation of methodological guidelines on the advanced practice for specialists of relevant sectors.

#### 5) Reduction of green house gases emissions;

To reduce greenhouse gases emissions through stimulating the replacement of energy capacious technologies used at enterprises of the energy sector with new technologies it is required to adopt new standards and other legislative acts, encourage the use of renewable energy sources by adjusting tax and custom duties, draft amendments to relevant legislative acts to impose conditional taxes and custom duties on the import of used vehicles, enhance awareness raising and provide incentives for the introduction of new technologies in the private sector, organize trainings for municipalities and private sector in view of a lack of experience on taking out a loan and enhance advertising campaigns and information dissemination programmes in view of a lack of awareness of the public about energy effectiveness.

#### 1.3 Thematic assessment on combating desertification / soil degradation

Desertification / soil degradation is one of the serious economic, social and environmental challenges for many countries. The Convention to Combat Desertification was adopted on 17 June 1994 in Paris and has taken effect since 1996.

The Republic of Azerbaijan joined the Convention in 1998. Ministry of Ecology and Natural Resources is the focal authority for the Convention. Coordination Council composed of national focal point, representatives of stakeholders and NGOs is functioning in the country.

#### 1.3.1. A state of desertification / soil degradation

Desertification / soil degradation process of different degrees takes place in an area of 3741 thousand hectares of a total of 8640 thousand hectares of the country area. The main causes of desertification are water erosion (34,3%), irrigation (3,2%) and wind erosion (4,3%). In recent decades this process has been much more intensive in the most densely populated and economically developed zones, namely in the Kura-Araz lowland, Asbsheron peninsula, and Nakhchivan AR. As a consequence, the area of lands affected by desertification increased from 36 percents to 43,3 percents (3741 thousand hectares) over the period 1970 to 2000. Of the area subjected to desertification 1520,6 thousand hectares (17,6 percent) have been slightly eroded, 881,3 thousand hectares (10,2 percent) have been moderately eroded and 1339,2 thousand hectares (15,5 percent) have most of all suffered from erosion. According to information by 01 January 2002, 665 thousand hectares of the irrigated soil in the country were subjected to salinization while 480 thousand hectares were affected by salinity. Among the causes along with natural factors (climate change, wind, water torrents, etc.) human impact plays a particular role. Tree logging because of a shortage of power, overgrazing, improper irrigation systems, farming with no account of scientific grounds, failure to meet agrotechnical standards and other causes speed up the process of desertification. This process is stimulated by deforestation taking place over the last 20 years, double increase in the number of cattle and by extensive irrigation. Unprofessional agricultural management on privatised lands following the land reform has also influenced this process. 30 thousand hectares of land have been destroyed as a result of mining operations.

The most dreadful degradation of soil is the case in the Absheron peninsula. In consequence of oil exploration for more than one hundred years with no account of environmental standards 10 thousand hectares of land have been contaminated by oil.

Taking account of a state of activities on combating desertification / soil degradation in the country a project proposal on the developing National Action Plan to combat desertification / soil degradation has been prepared and submitted by MENR to GEF.

The following priority actions relating to combating desertification / soil degradation are envisioned in the project:

- analysing main causes of desertification / soil degradation;
- identifying main priorities concerning combating desertification / soil degradation;
- diverting efforts to reducing the impact of anthropogenic factors to a minimum;
- interlinking relevant programmes on combating desertification / soil degradation.

#### 1.3.2. Overview of capacity in combating desertification / soil degradation

Capacity in combating desertification / soil degradation is represented by relationships between institutions engaged in this area under the legislation, social standards and national values existing in the country, environmental education system and being dependent on the level of activities of in this area, by the total of human, administrative, organizational, financial and technical recourses at their disposal.

Human capacity is defined as the total of capabilities of individuals employed by institutions combating desertification / soil degradation. Those engaged in combating desertification should have legal, environmental and technical knowledge and communication, assessment, planning, administrative and other skills of the required level. In this regard relevant institutions dealing with combating desertification have a sufficient human capacity. However, there is a need for employees to undergo regular trainings and enhance their qualifications.

Administrative resources are assessed by results of activities of relevant institutions engaged in this area depending on the level of management mechanism. Defining responsibilities, commitments and obligations including discharge of duties are the factors affecting administrative capacity. At present there is inconsistency in administrative resources of stakeholders with regard to the speed of desertification in Azerbaijan against combating activities. In that case the need to strengthen capacity of stakeholders in terms of administrative resources arises.

Financial resources to fulfil commitments under the Convention are defined as funds earmarked from the budget as well as loans, grants and other investment sources. It should be admitted that financial resources of relevant institutions to successfully deal with combating desertification is not sufficient.

Technical resources to fulfil commitments under the Convention are defined as equipment, computers and other technical facilities at the disposal of relevant institutions. A special importance here is placed on the gathering, analysis and distribution of information as well as technical resources required for the organization of workshops, trainings and setting up specialised laboratories.

Different institutions are involved in activities on combating desertification / soil degradation in Azerbaijan. Although they all have one goal their area of activities, responsibilities, commitments, methods and approaches applied are different. It is important to ensure liaison among these institutions to avoid isolation and replication in the use of the capacity. To this end responsibilities, duties, allocated funds, activities timeframe of each institution need to be defined while drafting regulatory acts and developing national programmes.

Eight State and Nation Programmes have been developed to date which directly or indirectly deal with the issue of combating desertification / soil degradation.

These programmes envision a broad range of ways and methods of combating desertification / soil degradation.

#### 1.3.3. Main needs in the area of combating desertification / soil degradation

Taking account of the scale and change dynamics of desertification / soil degradation as well as its specifics and potential in relation to Azerbaijan the following priority needs can be put forward:

1) Planting trees and perennial herbs in landscapes that are susceptible to desertification;

There are various causes of the spread and speed of desertification / soil degradation in Azerbaijan. This process is for 80 percents linked to water erosion in landscapes susceptible to desertification. Such erosion is also supported by the destruction of vegetation, inadequate agricultural practice, monoculture growing and overgrazing. In order to prevent this process it is required to plant trees and perennial herbs, apply chisel ploughing, crop rotation and undertake other measures in landscapes that are susceptible to desertification crop rotation.

As from 2001 activities on the rehabilitation and expansion of forests in the country have been intensified. In 2003 Ministry of Ecology and Natural Resources developed National Programme relating to this area and had it approved by the State.

There are local and centralized administrative bodies, specialized institutions and highly qualified specialists in this area. Despite all this the capacity to carry out good work is insufficient. To this end it is important to involve local communities and ensure sustained actions.

2) Improvement of a system of information dissemination, environmental education and awareness raising concerning the issue of desertification/soil degradation;

A survey undertaken among community members affected by desertification process of a different degree and having a different level of education testifies to a poor awareness and knowledge by the public about desertification and ways to combat it.

A serious attention has been given to this issue in the environment-related National Programmes adopted by the State within the past four years. However, insufficient awareness raising about the problem is being observed among NGOs and mass media which are capable of promoting public movement in this area. Negligence of global environmental challenges in the statistics system and restricted access to information available at ministries poses a problem for raising awareness among wider public masses. There is a need to rectify current activities directions of the human capacity and approaches to the resolution of the problem in this area.

There is also a need for developing a special statistic information register meeting international standards. Information on a state of land resources, areas affected by desertification and a degree of their desertification should be included in priority areas. Publishing of the gathered information on web pages to make it available for a wider public can provide a more effective outcome.

The analysis of activities by public institutions shows that the level of implementation of projects directly relating to desertification / soil degradation is very low. The number of projects addressing this problem is small because the level of activities to raise awareness of the public about the issue of combating desertification / soil degradation is insufficient. One of the reasons for poor activity of NGOs in this area is that this problem is not included in the list of priority actions by foundations operating in this region. The major part of activities by NGOs is supported by grants provided by international foundations. Although a serious attention in grant programmes announced in the South Caucasus is given to environmental issues relating to the Caspian Sea, the Kura and Araz rivers, sustainable development of mountainous regions, biodiversity, etc., the challenge of desertification / soil degradation remains overlooked.

The relationships, exchange of information and experience among citizens of different layers and different concern about the problem are not well-organized. Therefore, there is a need for the development of a national communication system and setting up a special information network in this area. Taking account of different opportunities of the public to access information this information network can be complemented by mass media sources, online networks, special bulletins, brochures and awareness raising campaigns.

#### 3) Stimulating the use of renewable energy sources;

As part of actions to combat desertification / soil degradation and drought the use of alternative sources of energy is addressed in State Programme on Poverty Reduction and Economic Development, National Programme on Environmentally Sustainable Social-Economic Development and State Programme on the Use of Alternative and Renewable Energy Sources in the Republic of Azerbaijan (2004). Generating electric power by means of photovoltaic modules, solar water heaters, water pumping wind mills and the use of other methods of sourcing alternative energy can play an important role in combating desertification / soil degradation.

There favourable conditions in Azerbaijan for the use of renewable source of energy. The power of solar energy in Azerbaijan is 2000 kW per second per square meter, the number of sunny days accounts for 270 per year while wind energy power constitutes 0,5 kW per square meter.

4) Rehabilitation of soil fertility by improving the utilization of water reservoirs and irrigation and drainage channel systems, prevention of water loss and irrigation erosion;

Approximately half of the land in Azerbaijan is suitable for cultivation. Of this land 1,7 million ha are used for growing of plants and crops. About 1,3 million ha of the land are irrigated and 80 percents of the harvest is obtained from these lands. On over 740,4 thousand ha of the irrigated land there is a need for setting up new irrigation systems while on 282,7 thousand ha area the construction of a drainage channels network is required. Of the area encompassing the drainage channels network 239,6 thousand ha need to be reconstructed in a complex manner, 300 thousand ha of open-air drainage channels system need to be replaced by a covered-up network, 95,3 thousand ha need to be substantially levelled and 88,1 thousand ha need to be washed down.

Ensuring proper exploitation of drainage systems and their reconstruction should be put first and the level of ground waters and their chemical composition be assessed. There is a

need to organize combating wash and erosion of the whole cultivated system in regions threatened with erosion.

In Azerbaijan 70 percents of water resources is formed by the inflow of water from outside the country. By increasing a store of water resources to be used for irrigation through constructing water reservoirs on internal rivers the area of irrigated land can be enlarged up to 1600-1650 thousand ha. The exploitation system of complexly used water reservoirs and their technical maintenance need to be improved. The application of advanced irrigation technologies and prevention of water loss accounting for over 27 percents are also included in the list priorities.

Regional Programmes on soil reclamation by means of irrigation and amelioration are in the minority. Since there is no possibility to regulate the use of water in partnership with countries located within the Kura-Araz river basin during dry seasons Azerbaijan most of all suffers from shortage of water compared to these countries. Water resources of the country are limited and account for 31,23 km<sup>3</sup> (river sources) which fall to 23 km<sup>3</sup> in dry seasons.

In the context of regional policy having the Republics of Georgia and Armenia as countries located in the Kura-Araz river basin join the Convention on the Protection and Use of Transboundary Watercourses and International Lakes adopted in 1992 at Helsinki, signing bilateral agreement on the protection and use of water resources of the Kura river between the Republics of Azerbaijan and Georgia, the protection and use of water resources of the Araz river as well as the development and implementation of actions on the utilization of Sarsang water reservoir under the mediation of international institutions until the conflict between the Republics of Azerbaijan and Armenia is resolved are of importance.

5) Making inventory of soil, water and forest resources and identifying main factors affecting soil degradation;

It is required to obtain complete and detailed information related to this area in order to properly allocate funds and technical facilities intended for combating desertification / soil degradation and effectively use human capacity and natural resources. Due to problems of transition period, change in economic relations and for other reasons the carelessness in the use of natural resources (soil, forest, water, subsoil, etc.) have resulted in the quantitative and qualitative trend towards decline in these resources. However, compete and detailed account of this trend was not undertaken. Due to a shortage of technical and financial means inventory is not carried out in a proper manner at research institutions in charge. Therefore, there is a need for strengthening institutional capacity of agencies engaged in this area.

Capacity of research institutions to do research on priority issues in a contemporary manner is limited. There is a need for a sate programme on the development and application of scientific basics of actions on combating desertification / soil degradation for the territory of Azerbaijan.

Although scientific potential is high in the country findings of laboratories should be developed to the level of pilot projects.

The impossibility to do high level researches due to insufficient funds earmarked in the budget for this kind of activities, a lack of appropriate technical capacity at research

institutions, incomplete scope of field surveys due to limited funds, failure to exchange scientific attainments in the field of amelioration and irrigation gained during internships overseas, poor national human resources development are all of other existing problems.

Strengthening technical and financial capacity of MoA and SLMC that are responsible for practical activities on combating desertification / soil degradation is one of the important steps to be taken.

The magnitude of desertification / soil degradation within the area of Azerbaijan for the past 30-40 years, its change dynamics and social-economic repercussions require urgent and adequate combating response in this area. The analysis of the capacity of stakeholders shows that important steps have been undertaken in the country in this area and a certain capacity has been built to respond to the challenge. However, it should be unambiguously admitted that there is a considerable difference between the present day change dynamics in desertification / soil degradation processes and the existing capacity to adequately respond to them. Therefore, additional and more effective actions should be undertaken to strengthen the capacity.

## II. CROSSCUTTING ISSUES IN THE THREE CONVENTIONS ON GLOBAL ENVIRONMENTAL CHALLENGES

#### 2.1. Identifying priority issues

#### 2.1.1. Main shortcomings in the fulfilment of commitments under the Conventions

Concrete actions towards the elimination of environmental problems are being carried out in Azerbaijan with a view to ensuring sustainable development. At the same time there are a number of obstacles impeding the overcoming of problems in the country in the areas of concern. These are as follows:

#### In the area of biodiversity conservation:

- very poor environmental public awareness about biodiversity conservation issues;
- a shortage of manuals, facilities and programmes to raise awareness of a wider public about biodiversity conservation in the educational system;
- a lack of regular national and regional workshops and trainings in this area;
- failure to systematically involve stakeholders to regionally and internationally organized trainings on exchange of experience;
- poor exchange of experience and information at all levels;
- poor organization of the use and development of database on biodiversity conservation at relevant institutions;
- limited opportunities for the assessment of change dynamics and scale of biodiversity on account of a failure by state environmental statistics to fully cover the biodiversity area;
- poor general coordination of activities in this area despite the fact that various areas of biodiversity conservation are covered by relevant state and national programmes adopted in the country;
- insufficient attention to social aspects of biodiversity conservation such as health, demographic trends, migration, etc. in programmes that are in preparation;
- making little use of findings for biodiversity conservation provided by research which has been financially and technically weak in recent years;

- reluctance in the implementation of pilot projects among practical and scientific laboratories resulting in the impediment of application of scientific findings in practice;
- weakness of activity of NGO-s in the field of bio-diversity protection;
- out of level financial support in the activity of bio-diversity protection and as a result of nonelimination of current problems.

#### In the field of climate change:

- non-satisfaction of public enlightenment work about factors causing climate change and on expected complications at the result of climate change;
- low level of public informing in the field of climate change;
- weak implementation of transfer to new technologies and availability of outdated equipment, production technologies in spheres of energy and transport which make sources of wastes of gases that create heating effect in atmosphere;
- lack of experience in the field of project preparation to meet international standards;
- unimproved system of information exchange for creation of cadastre of gases which causes heating effect in the country;
- weakness of public role in measures implemented in the field of reduction of wastes of gases, causing heating effect;
- out of level study of effect of expected climate change on separate sectors of economy, population health, ecosystems;
- unsatisfactory training of specialists in the field of teaching of climate change in the country on scientific basis:
- non-meeting of modern requirements in observation, forecasting technologies and equipment in climatic system;
- non-allocation of purposeful financial means from state budget for implementation of measures in the field of evaluation of effect of expected climate change and adaptation to it in the country;

#### In the field of combating desertification

- weakness of public informing system in the field of combating desertification, non-arrangement of ecological education on required level in the country;
- unimproved mechanism of forests management in the field of combating desertification in the territory of the country;
- non-utilization of restored energy sources on required level;
- reduction of soil fertility as the result of non-maintenance of water reservoirs on required level, irrigation and erosion, water leakages due to outdating of irrigation and collector-drainage systems;
- irregular conduction of inventory taking of soil, water and forests resources;
- weak coordination of activities implemented in the field of combating desertification in the country;
- non-implementation of results of scientific-research works in the of field of combating desertification.

#### 2.2. Cross-cutting priority problems

The analysis of current problems in the field of fulfillment of obligations arisen from Conventions on protection of bio-diversities, climate changeand desertification/soil degradation, which Azerbaijan Republic joined, shows that following points may be referred to crossing problems on three thematic fields:

- non-improved National legislation on global ecological problems;
- weakness of system of public informing, non-organization of ecological education on required level:
- non-allocation of purposeful financial means from state budget on sufficient amount;
- very low level of ecological knowledge of population;
- weak organization of information and experience exchange on all levels;
- non-improved mechanism in management of forests;
- non-implementation of results of scientific-research works on required level;
- unsatisfactory level of specialists' training etc.

The following problems are most important for Azerbaijan in present phase among those which considered as crossing for each three thematic fields:

- 1) public informing in the field of protection of bio-diversity, climate changeand combating desertification;
- 2) improvement of mechanism of management of forests in Azerbaijan.

#### 2.2.1. Basing of public informing in the field of global ecological problems as priority direction

1) <u>On individual level.</u> Despite attention on public informing in the field of global ecological problems in the National and State Programs adopted for last three years in the country in the ecological field was grown, the informing of various strata of population in bio-diversity, climate changeand desertification/soil degradation fields and understanding of population on which complications may lead these problems in future, is still very low level. For example, any person hunts any endangered bird or animal and sells it on cheap price for satisfying his small need or cuts one tree of 250-300 years old and listed in "Red book" for purposes of satisfying man's need in fuel.

The level of ecological information and enlightenment which regulates relation of public on protection of environment in Azerbaijan does not meet entirely today's requirements. Despite some works (opening of Orchuss center, regular preparation and distribution of bulletins on condition of environment, creation of website of ministry, publication of magazine on condition of environment etc) were done by Ministry of Ecology and Natural Resources in this direction, there is a big need in implementation of complex measures for reaching of activities on international level.

As population is less informed about their rights to get environmental information, their participation in adopting of decisions in this field is unsatisfactory.

At the same time the low level of informing of NGO and Mass Media representatives, which can form strong public activity, on problem is observed. The low attention on global ecological problems in statistics system, limitation of access of population to database of ministries creates problems in informing of masses. There is a need in correction of procedures of activity directions of human potential available in the country in this direction and reaching of problems' solution.

There is a need in preparation of special information cadastre according to international standards. The priority areas should include information on bio-diversity, climate changeand desertification of soils and its degradation. There is a need in creation of internet pages for delivering of collected information to masses.

Despite big potential of NGO-s, they have less experience and information on modern management methods of projects and working mechanisms. Lack of financial and material resources are felt and non-coordination of common activities on required level is visible.

Liaison between various strata of population and interested citizens in this field, information and experience exchange had been arranged weakly. There is a need in development of national

communication systems, creation of special electronic information networks in this field. Taking into account the difference in getting of information by population locally, this information networks may include Mass Media, electronic networks, special bulletins, brochures, educational-informative round tables, meetings, lectures.

Organization of ecological management trainings according to Convention requirement for state and self-governing bodies, NGO-s is necessary. There is a need in creation of training programs, methodic parameters and education means in the field of potential increase according to requirement of Conventions.

2) <u>On institutional level</u>. Results of implemented projects in country in the filed of implementation of requirements of Conventions are not popularized and demonstrated sufficiently. Required conditions were not created for conduction of researches and analysis directed to fulfillment of Convention requirements in priority directions.

In this regard creation of center for strategic studies on ecological problems by involving representatives of relevant organizations under the MENR would be of great importance in fulfillment of all three Conventions' requirements.

Teaching of global ecological problems in comparison with other fields within common educational burden given for teaching of ecology in secondary and high (state or private) education structures is conducted relatively low and unsystematic level.

Database of main structures operating in ecological field of country is very weak. Unsatisfactory level of material and technical provision, modern computer equipment, specialized library funds of these structures make impossible to strengthen this base. The present level of works carried out in this field causes strong demand in information center and from this point of view it is possible to establish links among Republican Ecological Behavior and Experience Center and many other ecological centers of the country, operating in many regions through providing access to Internet and having links through computer networks.

3) <u>On system level</u>. The system of informing of decision-making persons in the field of implementation of Conventions on global ecological problems in the country was arranged poorly. Informative materials (booklets, books, brochures etc.) dedicated on analysis of the Conventions are not published regularly and disseminated.

The methodic handbooks are not published for informing employees of responsible organizations in fulfillment of requirements of Convention in this field. Information on Conventions on global ecological problems is not regularly covered in Mass-Media.

Propaganda in the field of strengthening of bilateral relations among organizations in the fulfillment of Convention requirements had been arranged on very weak level.

It is obvious that enlightenment of public on all three Conventions is quite important in fulfillment of obligations provided in these Conventions by Azerbaijan.

## 2.2.2. Basing of improvement of forest management mechanism in the field of global ecological problems as priority direction

The Azerbaijani forests are related to 1<sup>st</sup> group of forest types and mainly have soil protective, water preservative and regulative, microclimate forming, bio-diversity protection, maintaining of ecological balance, esthetic, health and ecotourism developing functions and is not of industrial (wood processing) importance.

1) <u>On individual level</u>. Population growth in the Azerbaijan Republic had caused increase of requirement on heating effect. As this demand was not entirely met, and electric power and gas is supplied with interruptions, population uses the forests as fueling wood, which leads to decrease of forests areas.

Living of more than 1 million refugees and IDP-s from occupied by Armenia Azerbaijani lands in tent towns for more than 10 years in hard conditions and non-supply of them with heating power had caused increase of effect on forests. At the same time valuable forests masses in occupied by Armenia areas are ruthlessly destroyed and used in construction and furniture industry.

The role of public is quite low in management of forests. The population is less informed about importance of forests in solution of ecological problems.

The enormous increase of cattle in regions and their unsystematic pasturing along with creating many problems in restoration of forests, in foresting new areas, in preservation of bio-diversities, also creates conditions for intensification of desertification process.

2) <u>On institutional level.</u> The last record of forest funds in the country was done in 1988. Since 1988 the one time forest funds' record (once a five year) is not carried out.

Forests' structuring and projecting is not carried out on required level. There is a need in preparation of 10 year perspective projects for operating of forest economies for these purposes.

As the result of shortage of funds allocated from state budget, study of international experience and application taking into account the local specifications in the field of forests management is conducted slowly, and bringing into conformity the record of forests inventory taking and report system to international requirements becomes impossible to organize on required level.

There is a need in qualification improvement of relevant employees of state and local self-governing bodies in the field of sustainable development of forests.

There are problems in improvement of qualifications of scholars and teachers working in area of teaching of forest economies and forest management in high and secondary vocational schools. The cooperation among structures operating in forest management in cadre training field is on low level.

Various private entities operating in wood processing industry of the country use local material in contradiction with legislation.

3) <u>On systematic level.</u> The current forests legislation in Azerbaijan does not allow using Kyoto protocol mechanisms on required order. Therefore, there is a need in improvement of forest legislation in view of Kyoto protocol mechanisms.

It is known that Azerbaijani forests are not of industrial importance and such situation hinders in stimulating the activity of private activity in development of forests, makes impossible attraction of owners of non-forests funds' lands in laying of forests areas.

In order to expand forests fund lands in the country, there is a need in stimulation of foresting of areas in useless lands in mountainous, foothills and plain areas, in foresting works in areas of share lands and municipalities' lands. For these purposes creation of mechanism of stimulating of short turnover plantations consisting of fast growing tree sorts in irrigated areas of country with attracting land owners is one of the important conditions.

There is a need in exact definition of managed forests areas and preparation of strategy of permanent management of these forests.

Study of modern experience and application for purposes of improvement of monitoring system in changes of forest funds has great importance.

Alternative energy sources are not used sufficiently for reduction of effects on forests in country, and problems in supply of natural gas to regions were not eliminated. The necessity appeared in application of tax and customs privileges for creation of stimulus in import of forest materials.

The role of forests is irreplaceable either in normal development of fauna and flora, preservation of species and their enrichment, in reduction of effect of climatic changes, or in prevention of desertification/soil degradation. Therefore it is important for multi- functional forests to be managed with new mechanism in solution of global ecological problems. Actually activity in this field in the country began to be implemented since 2001. Department of Forest Development functions in the Ministry of Ecology and Natural Resources and the National Program was adopted in 2003 in the country related to this field. Specialists, local and central state bodies are available in this field. Potential for implementation of works on required speed and particularly financial means are not sufficient. Attraction of local communities and private sectors to this work, ensuring of sustainability of implemented works are of special importance.

For these reasons there is a need in improvement of mechanism of management of forests aimed for development of forests in Azerbaijan Republic, which included in list of less forested countries and which areas covered with forests comprise of 11% of total territories.

The improvement of forests management mechanism that put forward as priority requirement in protection of bio-diversities form one side would create base for combating desertification/land degradation, and from other side will create conditions for settlement of adaptation problems in forests sector being most vulnerable to climatic changes, which in its turn will make contribution in protection of global climate.

#### III. NATIONAL IMPLEMENATION PLAN

#### 3.1. Survey of activity planning process

Last 30-40 years reduction of bio-diversity, climatic changes, scope of desertification/land degradation processes, its changing dynamics and social-economic results requires forming of activities on level of modern requirements. Therefore new, most effective measures are to be implemented on requirements arising from implementation of Conventions on protection of bio-diversities, climate changeand combating desertification/land degradation.

The following main directions aimed for increase of potential in the direction of crossed problems' solution given in National Implementation Plan, prepared for these purposes, were selected:

#### 3.1.1. On public enlightenment in the field of global ecological problems:

- preparations of informative means for decision making persons in the field of implementation of Conventions;
- preparation of methodic means for informing of responsible organizations in this field for implementing of the Conventions requirements.
- preparation of enlightenment handbooks for responsible persons of organizations authorized to prepare laws and normative legal acts in the field of global ecological problems;

- preparation of education/training means in the field of social-economical aspects of global ecological problems;
- preparation of National implementation plan on combating desertification/soil degradation;
- preparation of education/training means assisting to propaganda of global ecological problems covered by the Conventions, among local communities and private sectors;
- implementation of pilot projects of informative nature on solution of global ecological problems covered by the Conventions;
- coverage of information related to Conventions in Mass-Media;
- creation of ecological education programs reflecting the subjects of the Convention in common education system;
- organization of propaganda in the field of strengthening the mutual relations among interested parties in implementation of the Convention requirements;
- establishment and propaganda of indicators system for evaluation of implementation of the Convention requirements;
- creation of training-resource center paying special attention on global ecological problems and operating permanently in the field of environment management;
- increase of opportunities for operative organization of public enlightenment in force-major circumstances related to environment;
- organization of ecological management training according to Convention requirements for representatives of state, self governing bodies and NGO-s.

#### 3.1.2. On improvement of forests management mechanisms:

- Improvement of legislation base in conformity with Convention requirements in the field of forests management;
- study and application of international experience in the field of forests management;
- creation of legal base for use of mechanisms of Kyoto protocol in development of forests and use of lands in the country;
- improvement of methods of studying of conditions of forests funds in the system of forest management;
- improvement and application of forest inventory taking system on record and report in Azerbaijan according to international requirement;
- expansion of forests fund lands;
- information of public and increase of potential in this field taking into account necessity of restoration of Tugay forests along Kurboyu areas;
- organization of coordination in management of forests economies and water resources;
- expansion of mutual relations among relevant organizations in implementation of Convention requirements in the field of global ecological problems;
- involvement of employees of relevant state and local self-governing bodies to training and qualification improvement in forests management;
- organization of qualification improvement of cadres working in the field of forests economies and management;
- organization of lectures and conduction of training for purposes of increase of role of community in forest management;
- creation of economic mechanism that stimulates provision of rural population with alternative fuels for purposes of forest protection and its rational use;
- regulation of land use for purposes of combating desertification;
- preparation and implementation of adaptation measures in the direction of reduction of negative effects of expected climatic changes.

It is expected to prepare in future implementation plans aimed for settlement of other crossing problems in the field of bio-diversities, climate change and desertification/land degradation.

### 3.2. Action Plan

# 3.2.1 NATIONAL PRIORITY 1.

Enhancement of public environmental awareness raising

Objective 1.1. Strengthening capacity at systemic level

	Objective 1.1. Strengthening co			cution	Budget	
		Responsible	pei	riod	_	
Scope of activities	Interventions	agencies	2006-	2008-	Million manats	
			2008	2015		
1.1.1. Preparation of	1. Preparation of leaflets,	MENR,	+			145.0
informative materials	brochures and booklets on the	NGOs				
for decision-makers in	analysis of each of the three					
the implementation of	Conventions					
and compliance with	2. Enhancement of curricula	MENR,	+	+		160.0
the Conventions	and other information	MoE				
	dissemination facilities on					
	conventions dealing with					
	global environmental					
	challenges and coordination					
	of information dissemination					
1.1.2. Preparation of	1. Preparation of brochures	MENR,	+			95.0
methodological	on responsibilities,	MoA, MIE,				
materials for raising	commitments and required	SLMC,				
awareness of personnel	capacity of responsible bodies	MoE,				
employed by		ANAS				

institutions responsible	2. Preparation and publication	MENR	+	+	120.0
for the implementation	of methodological guidelines				
of and compliance	and brochures on capacity				
with the Conventions	strengthening for ensuring				
	compliance with provisions				
	of different Conventions				
1.1.3. Preparation of	1. Preparation and publication	MENR,	+	+	130.0
legislative and other	of visual materials	MoJ, NP,			
regulatory acts on	(brochures, leaflets, etc.) on	NGOs			
global environmental	comparative analysis of the				
challenges	country's legislation on				
	global environmental				
	challenges				
	2. Development of new	MENR,	+	+	100.0
	legislative acts meeting	MoJ, NP,			
	provisions of the Conventions	NGOs			
	and preparation of proposals				
	on amendments to the				
	existing legislation				
1.1.4. Preparation of	1. Preparation of curricula	MENR,	+	+	11.0
educational materials	and methodological	MED, MoE			
on social-economic	guidelines on social-				
aspects of global	economic aspects of global				
environmental	environmental challenges				

challenges	2. Preparation of educational		+	+	77.0
	materials (brochures,				
	booklets, video films, posters)				
	on social-economic aspects of				
	global environmental				
	challenges				
1.1.5. Preparation of	1. Preparation of a draft	MENR,	+		200.0
National Action Plan	National Action Plan on	MED, MoA,			
on combating	combating desertification /	SLMC,			
desertification / soil	soil degradation	ANAS,			
degradation	2. Preparation of National	NGOs	+		4650.0
	Action Plan on combating				
	desertification / soil				
	degradation				
1.1.6. Preparation of	Preparation and public	MENR,			
educational materials	dissemination of awareness	MoA, MoE,			
intended for raising	raising facilities (brochures,	MM, MIE,			
awareness of global	booklets, video films, posters)	MoH, MoF,			
environmental	on the following subjects:	NGOs			
challenges addressed	1. Impact of global		+	+	28.0
by the Conventions	environmental challenges on				
among communities	energy supply				
	2. Impact of global		+	+	28.0
	environmental challenges on				
	food supply				
	3. Desertification and poverty		+		28.0

	4. Desertification and food		+		28.0
	supply				
	5. Poverty and biodiversity	MENR,	+	+	28.0
	conservation	NGOs			
	6. Climate change and food	MENR,	+	+	28.0
	safety	MoA			
	7. Role of biodiversity in our	MENR,	+		23.0
	life	NGOs			
	8. Forests of Azerbaijan and	MENR,	+		25.0
	global environmental	MoA,			
	challenges	NGOs			
1.1.7. Publication of	1. Establishment of a working	MENR,	+		30.0
information on the	group providing updates to	TCC, MoE,			
Conventions in mass	the network of TV & radio	MM			
media	broadcasts and environment				
	related periodical press as				
	well as information agencies				
	and organization of its work				
	2. Preparation of a series of	MENR,	+		15.0
	programmes broadcasts	MoE,			
	raising awareness about				
	objectives and goals of the				
	Conventions				

	3. Organization of special issues in the press intended for raising awareness about objectives and goals of the Conventions	MENR, MM	+	+	12.0
	4. Ensuring periodic update of information about the Conventions on the web-site of MENR	MENR	+	+	-
1.1.8. Regular addressing of information on the Conventions in awareness raising	1. Preparation and publication of annual brochures addressing up-to-date information on the Conventions	MENR	+	+	42.0
campaigns	2. Running a contest on making animated films intended for raising awareness of school children about the Conventions	MENR, MoE, TRC		+	15.0
1.1.9. Using ISO 14000 standards as	1. Preparation of a handbook on ISO 14000 standards	MENR	+		14.0
guidance in joint activities of stakeholders towards the implementation of	2. Preparation of training programes and materials on the promotion of ISO 14000 standards	MENR	+	+	38.0
the Conventions	3. Organization of training courses on ISO 14000 standards	MENR	+	+	8.0

1.1.10. Organization of	1. Preparation of proposals on	MENR,	+		22.0
awareness raising	the improvement of tax and	MED, MoT,			
campaigns to	customs duties in relation to	SCC			
strengthen	the fulfilment of				
interrelations among	commitments under the				
institutions responsible	Conventions				
for the implementation	2. Running reporting	MENR,	+	+	12.0
of provisions of the	workshops with the	MM, NGOs			
Conventions	participation of working				
	groups on the Conventions				
	twice a year and				
	dissemination of outcomes of				
	the workshops through mass				
	media				

Objective 1.2. Strengthening capacity at institutional level

				ition period	Budget
Scope of activities	Interventions	Responsible agencies	2006-2008	2008-2015	Million manats
1.2.1.Organization of awareness raising campaigns to ensure rational use of water resources enhance irrigation and drainage systems in the agricultural sector	1. Making analysis of standards of water use in the agricultural sector of different regions of the country and their dissemination through publications among the public	MENR, MoA	+		125.0
	2. Publication of awareness raising materials (booklets, leaflets, video films, posters) on irrigation and drainage systems	MENR, MoA, NGOs	+	+	115.0
	3. Organization of workshops on water use problems	MENR	+	+	15.0
1.2.2. Setting-up a canter for strategic	1. Fitting up the centre with office and other equipment	MENR	+		160.0
assessment of global environmental issues	2. Setting-up a small publishing unit within the centre	MENR	+		270.0

1.2.3. Setting-up a	1. Getting the centre up and	MENR	+		95.0
standing environmental	running (fitting on equipment				
management	and visual materials)				
educational resource	2. Development of	MENR,	+		25.0
centre on global	educational strategy	MoE			
environmental	programme				
challenges	3. development of curricula	MENR,	+		25.0
	of the educational resource	MoE			
	centre				
1.2.4.Presentation and	1. Public dissemination of	MENR,	+	+	350.0
dissemination of results	results of the implemented	MoE,			
of projects on the	projects by means of the	NGOs, MM			
implementation of the	following:				
Conventions in the	- leaflets				
country	- booklets				
	<ul> <li>video films</li> </ul>				
	- posters				
	- web-pages				
	- online forums				
	- conferences				
	- press-releases				
	- resolutions				
1.2.5. Facilitating	1. Preparation of proposals	MENR,	+	+	5.0
researches and analyses	on the incorporation of	ANAS,			
on priority directions of	global environmental	MoE			
the Conventions	management researches into				
implementation	research programmes				

	2. Preparation of proposals on the financial support of	MENR, ANAS	+		59.0
	researches				
1.2.6. Involvement of	1. Preparation of	MENR,	+		75.0
different foundations in	Conventions related Priority	MIE, MoA,			
priority activities and	Projects Portfolio and its	ANAS			
raising awareness about	submission to relevant				
their effective use	government bodies as well as				
	international donor				
	institutions				
	2. Dissemination of	MENR,	+	+	45.0
	information about the	NGOs, MM			
	implementation of provisions				
	of the Conventions in terms				
	of its significance for the				
	country among the donors				
	3. Public dissemination of	MENR	+	+	20.0
	information about potential				
	financial sources for the				
	implementation of provisions				
	of the Conventions				
	4. Organization of round	MENR,	+	+	23.0
	tables to attract oil	SOCAR			
	companies operating in				
	Azerbaijan and other private				
	entities to the financing of				
	priority projects				

5. Opening a special account	MENR	+	+	22.0
to be used for financial				
support from the private				
sector and organization of the				
fundraising campaign				

Objective 1.3. Strengthening capacity at individual level

			Execution		Budget
Scope of activities	Interventions	Responsible	per	riod	
		agencies	2006-	2008-	Million
			2008	2015	manats
1.3.1. Organization of	1. Preparation of	MENR,	+		170.0
environmental	environmental management	MoE			
management trainings	educational programmes for				
for representatives of	individuals engaged in				
the government, self-	activities on the				
governing bodies and	implementation of the				
NGOs in conformity	Conventions at all levels				
with provisions of the	2. Running trainings for	MENR,	+	+	110.0
Conventions	representatives of Local	NGOs, MM,			
	Executive Authorities, self-	LEAs			
	governing bodies, NGOs,				
	mass media and communities				
	3. Publication and	MENR	+		45.0
	dissemination of training				
	courses catalogues among				
	stakeholders				
	4. Organization of training	MENR,	+	+	36.0
	courses for representatives of	MED, MoT,			
	donors sponsoring	SCC			
	environment protection as				
	well as tax and customs				
	institutions				

1.3.2. Development of	1. Development of training	MENR,	+		76.0
training programmes,	programmes on main	MoE,			
methodological	principles and approaches of	NGOs,			
guidelines and	the Conventions for Local	ANAS,			
educational materials	Executive Authorities,	LEAs			
intended for	research institutions and				
strengthening capacity	NGOs as well as State				
meeting provisions of	Executive Authorities				
the Conventions	2. Development of training	MENR,	+		55.0
	programmes on the economic	MED, MoE			
	assessment of the				
	environment and ecosystem				
	3. Development of training	MENR,	+		34.0
	programmes on the	MoE			
	management of land,				
	agriecology and agricultural				
	wastes				
1.3.3. Ensuring	1. Ensuring participation of	MENR,	+	+	190.0
participation of	teachers and trainers engaged	MoE			
teachers and trainers	in education and training in				
engaged in education	compliance with provisions				
and training in	of the Conventions at local,				
compliance with	regional and international				
provisions of the	extension courses				
Conventions at local,	2. Introduction of	MENR,	+	+	90.0
regional and	Conventions related topics	MoE			
international training	into teacher's training				
courses	programmes				

	2 Dayslonment of	MENR,	1		190.0
	3. Development of	,	+		170.0
	educational manuals from	MoE			
	Convention related materials				
j	intended for education and				
1	training				
	4. Organization of teacher's	MENR,	+	+	76.0
1	training programmes for	MoE			
1	teacher and trainers employed				
	at Environmental Upbringing				
	and Skills Development				
	Centre of Ministry of				
	Education				
	5. Running regular country-	MENR,	+	+	12.0
,	wide workshops to promote	MoE			
	exchange of experience				
	among teachers of higher				
	educational institutions				
	6. Ensuring participation of	MENR,	+	+	120.0
	teachers and trainers in short-	MoE			- , •
	term internships on exchange	1,101			
	1				
	of information and experience				
	at scientific institutions				
	dealing with global				
	environmental issues				

## 3.2.2 NATIONAL PRIORITY 2.

Enhancement of forest management mechanisms

Objective 2.1. Strengthening capacity at systemic level

			Execution		Budget
		Responsible	per	riod	
Scope of activities	Interventions	agencies	2006-	2008-	Million
			2008	2015	manats
2.1.1. Analysis of the	1. Organizing meeting and	MENR, MoJ,	+		30.0
legislative base in	running workshops on the	MED, LEAs,			
forest management	importance of incorporation	municipalities			
	of provisions of the three				
	Conventions addressing				
	global environmental				
	challenges into the forestry				
	legislation				
	2. Preparation of proposals	NP, MENR,	+		45.0
	portfolio on the	MoJ, MoA,			
	incorporation of provisions	MED, LEAs,			
	of the three Conventions	municipalities			
	addressing global				
	environmental challenges as				
	well as Kyoto Protocol				
	mechanisms on the				
	commercial use of forests in				
	Azerbaijan into the forestry				
	legislation				

2.1.2. Enhancement of methods of assessment of forest resources in the forest management system	1. Strengthening technical capacity to effectively carry out country-wide forest stocking and projection and development of ten-year term projects envisioning training of personnel in this area	MENR, MED, MoE	+	20.0
	2. Development of a draft programme intended for the introduction of the advanced practice with a view to enhancing a system of monitoring of changes in forest resources	MENR	+	25.0
2.1.3. Expansion of forest lands	1. Preparation of proposals on pilot projects aimed at forest planting in mountains, foothills and lowlands, and on degraded lands unfit for agricultural use	MENR, SLMC, LEAs, municipalities, NGOs	+	25.0

2. Running round tables, workshops with the participation of stakeholders to stimulate forest planting in public allocated lands and municipalities' properties and preparation of proposals portfolio  3. Development of project proposals aimed at stimulating short-term rotation plantations of fast growing species in irrigated zones of the country through the involvement of private land owners	MENR, NGOs, LEAs, municipalities	+	+	15.0
4. Development of pilot projects on forest planting on sand beaches of the Caspian coastal zone		+		22.0

2.1.4. Strengthening capacity in the rehabilitation of Tugay (riparian) forests along the Kura river banks	1. Preparation of proposals on the implementation of pilot projects aimed at the rehabilitation of Tugay (riparian) forests along the Kura and Araz river banks, raising awareness of the communities about the importance of reconstruction and strengthening technical capacity		+		35.0
2.1.5. Ensuring	1. Development of pilot	MENR, MoA	+	+	20.0
coordination in	projects aimed at planting				
forestry and water	buffer strips to reinforce the				
resources	soil structure of ravines in				
management	watersheds				
	2. Development of pilot	MENR, MoA,	+		15.0
	projects aimed at expanding	NGOs, LEAs			
	reforestation and				
	afforestation activites in				
	areas mostly affected by				
	water torrents in mountain				
	systems				

2.1.6. Strengthening	1. Holding discussions,	MENR,	+	+	35.0
interrelations among	workshops with the	institutions of			
institutions	involvement of national	concern			
responsible for the	focal points on each				
implementation of	convention at institutions				
provisions of the	responsible for the				
Conventions	implementation of				
addressing global	provisions of the				
environmental issues	Conventions				
	2. Periodic publishing,		+	+	30.0
	disseminating and placing				
	information on the web-site				
	of MENR about the				
	implementation of				
	provisions of the				
	Conventions by agencies				
	responsible for forest				
	management				
2.1.7. Making use of	1. Holding a scientific	MENR,	+		12.0
Kyoto Protocol	practical conference on the	SLMC, MED,			
mechanisms in the use	Role of Kyoto Protocol	MIE, NGOs,			
of land and	mechanisms in the use of	MM			
development of	land and development of				
forests in Azerbaijan	forests in Azerbaijan and				
	publication of abstracts of				
	conference papers				

2. Correct identification of	MENR,	+	200.0
forest areas envisioned for	SLMC, NGOs		
management and			
development of a strategy on			
sustainable forest			
management			
3. Enhancement and	MENR, SSC	+	250.0
application of forest			
inventory system in			
Azerbaijan to international			
standards			

Objective 2.2. Strengthening capacity at institutional level

			Exec	Execution	
		Responsible	per	riod	
Scope of activities	Interventions	agencies	2006-	2008-	Million
			2008	2015	manats

2.2.1. Organization of	1. Preparation of educational	MENR,	+	+	210.0
vocational training	programmes and manuals on	MoA, MoE,			
courses on forest	sustainable forest	ANAS,			
management for	management for	NGOs			
representatives of	representatives of relevant				
relevant government	government and self-				
and self-governing	governing bodies				
bodies	2. Setting up an educational	MENR,	+		200.0
	resource centre for forest	MoE,			
	management and equipping it	ANAS			
	with relevant facilities				
	3. Regular involvement of	MENR	+	+	50.0
	representatives of relevant	MoA, MoE,			
	institutions in vocational	NGOs			
	training courses				
2.2.2. Learning and	1. Acquirement of guidelines,	MENR	+	+	75.0
application of	textbooks, scientific literature	MoE,			
international practice	from countries with advanced	ANAS,			
on forest management	practice in forest stocking	NGOs			
	with a view to bringing the				
	national system to				
	internationally accepted				
	standards and making them				
	available in the national				
	resource centre				

	2. Analysis and translation of	MENR,	+	+	55.0
	those documents that meet	MoE,	'		22.0
	conditions of Azerbaijan and	ANAS,			
		NGOs			
	their appropriate	NGOS			
	dissemination by different				
	means				
	3. Publishing catalogues for	MENR,	+	+	20.0
	regional and international	MoE, NGOs			
	vocational training courses				
	and exchange of experience				
	4. Sending forestry specialists	MENR,	+	+	50.0
	to take part in regional and	MoE,			
	international workshops and	ANAS,			
	training courses to exchange	NGOs			
	experience				
2.2.3. Promoting the	1. Preparation of educational	MENR,	+	+	40.0
enhancement of	programmes for scholars and	MoA,			
qualification of staff	teachers dealing with issues	ANAS,			
engaged in forestry	of forestry and forest	NGOs			
and forest	management at high and				
management	higher specialized schools				

	2. Involvement of scholars		+	+	30.0
	and teachers dealing with				2 3 . 0
	issues of forestry and forest				
	management at high and				
	higher specialized schools in				
	courses, workshops and				
	trainings organized at				
	technical educational practical				
	centre to enhance their				
	qualification				
	3. Sending scholars and	MENR,	+	+	75.0
	teachers dealing with issues	MFA,			
	of forestry and forest	NGOs			
	management at high and				
	higher specialized schools to				
	regional and international				
	training courses				
2.2.4. Human	1. Preparation and	MENR,	+	+	45.0
resources development	•	ANAS,			
in forest management	cooperation programme in	MoE, NGOs			
	human resources development	·			
	among institutions				
	specializing in forest				
	management				

2. Taking actions to ensure	MENR,	+	+	35.0
sustained education on forest	ANAS,			
protection and sustainable use	MoE, NGOs			
of forest resources at high and				
higher schools				

## Objective 2.3. Strengthening capacity at individual level

			Execution		Budget
		Responsible	pei	riod	
Scope of activities	Interventions	agencies	2006-	2008-	Million
			2008	2015	manats
2.3.1. Development of	1. Preparation and	MENR, MoE,	+	+	110.0
educational and other	dissemination of brochures,	NGOs			
visual facilities	booklets, posters and video				
intended for raising	films intended for raising				
the role of the public	the role of the public in				
in forest management	forestry and forest				
in conformity with	management in conformity				
provisions of the three	with provisions of the three				
Conventions on	Conventions on Global				
Global Environmental	Environmental Challenges				

Challenges	2. Broadcasting of	MENR, TM,	+	+	40.0
6	promotional clips on TV and	NGOs			
	installation of promotional				
	posters on waysides and				
	other appropriate areas to				
	raise the role of the public in				
	forest management				
	3. Organizing poll of	MENR, NGOs	+	+	25.0
	opinions, surveys,				
	conferences, information				
	exchange on forest				
	management by means of				
	internet and online networks				
2.3.2. Organizing	1. Preparation of training	MENR	+		25.0
discussions and	programmes to involve the	MoA, MoE,			
training courses to	public in forest management	NGOs			
raise the role of the	in conformity with				
public in forest	provisions of the				
management	Conventions on Global				
	Environmental Challenges				
	2. Organizing round tables,	MENR, Self-	+	+	30.0
	training courses and	Governing			
	workshops addressing the	Bodies,			
	role of the public in forest	Municipalities,			
	management	NGOs			

3.2.3. Implementation of commitments on specific areas arising out of provisions of each of the three Conventions

		Responsi	Executi	on period	Budget
Scope of activities	Interventions	ble	2006-2008	2008-2015	Million manats
Goope of delivities	mervendens	agencies			
3.1. Development of	1. Organizing round tables,		+		20.0
economic mechanisms to stimulate supply of alternative sources of energy to	workshops with the participation of stakeholders to address supply of alternative sources of energy to the community in regions, to assess needs and develop proposals	MENR, MoT, SCC, Private			
communities in rural	2. Development of proposals	sector	+		20.0
areas to protect ensure sustainable	portfolio to stimulate the import of timber and coal into the Republic				
use of forests	3. Discussions and development of proposals portfolio on the application of preferential customs duty and tax rates to stimulate the import of forest resources into the Republic	MENR, MoT, SCC, Self- Governing Bodies, Municipal ities, NGOs	+		15.0
2.3.2. Regulation of land use to combat desertification	1. Organizing round tables and workshops with the participation of relevant institutions and local community members to address the issues of regulating the number of cattle commensurate with the capacity of pastures around villages	MENR SLMC, MoA, Self- Governing Bodies, Municipal	+		50.0

2. Drafting regulatory documents on regulating the number of cattle commensurate with the capacity of pastures around villages	ities, NGOs	+	45.0
3.Organizing discussions with relevant institutions addressing the significance of transition of cattle-breeding to an enclosed system by using productive breeds of cattle in regions	MENR SLMC, MoA, Self- Governing Bodies, Municipal ities, NGOs	+	40.0
4. Development of pilot projects on the rehabilitation of exhausted quarries in the Absheron peninsula	MENR SLMC, Self- Governing Bodies, Municipal ities, NGOs	+	22.0

3.3. Reduction of	1. Organizing discussions to	MENR,	+		35.0
GHG emissions	encourage the State to stimulate the	MIE,			
	replacement of energy consuming	MED			
	technologies with modern ones at				
	fuel using enterprises in the energy				
	sector and development of				
	proposals portfolio on amendments				
	to the legislation				
	2. Making statements in media to	MENR,	+	+	50.0
	encourage the private sector to	SCC,			
	bring in new technologies and	MoT,			
	organizing workshops and	Private			
	conferences to promote activities of	sector,			
	the private sector in this sector	NGOs			
	3. Organizing discussions on	MENR,	+	+	25.0
	imposing special customs duty and	SCC,			
	tax rates for importing used	MoT,			
	vehicles and development of	MIA,			
	proposals portfolio on amendments	Private			
	to the relevant legislation	sector,			
		NGOs			
	4.Development of proposals	MENR,	+		23.0
	portfolio on launching production	MED,			
	of gas and dust scrubbers on the	MIE			
	base of the existing equipment				
	producing complexes in the country				

	5. Development of pilot projects on	TM,	+	23.0
	the rehabilitations of strips of trees	MENR,		
	and planting new ones along roads	Self-		
	of national and international	Governing		
	importance	Bodies		
3.4.	1. Development of National	MENR,	+	40.0
	Programme of the Republic of	MED,		
	Azerbaijan on climate change by	MIE,		
	involving relevant government	ANAS,		
	bodies, private sector and different	MoA,		
	layers of the public with a view to	MoJ, TM,		
	reducing to a minimum negative	SCC,		
	impacts of climate change likely to	MoT,		
	affect human health, biodiversity,	Self-		
	different sectors of economy	Governing		
	including the study of climate	Bodies,		
	change impacts and adaptation	NGOs,		
	actions	Private		
		sector		
3.5.	1. Systematizing findings from	MENR,	+	45.0
	researches implemented to date in	ANAS,		
	the area of biodiversity, climate	MoA,		
	change and desertification / soil	MoE,		
	degradation and development of an	NGOs,		
	action plan on the application of	Private		
	those findings that are considered	sector		
	to be suitable			

TOTAL:	11 137.0
	2 272 857 USD