



Sustainable Management of Biodiversity, South Caucasus



Revision of National Biodiversity Strategy & Action Plan in Georgia

/Sharing of Experience/

Global Workshop on Reviewing Progress and Building Capacity for the NBSAPs Revision Process

Nairobi, November, 2013

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Global Importance of Georgian Biodiversity







Species Diversity

- 4130 vascular plants are described in Georgia among wich up to 900 species (21 %) are Georgian and Caucasian endemics.
- 16 054 fauna species are found in Georgia among which 758 species are chordates.
 19 mammals, 3 birds, 15 reptiles and 3 amphibians are Caucasian endemics.
- 29 mammals, 35 birds, 11 reptiles, two amphibians, 14 fishes, 43 invertebrates and 56 woody plant species currently included on the national Red List.
- 44 vertebrates found in Georgia are globally endangered and included on the IUCN Red List as vulnerable (VU) or higher.







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Ecosystems and Landscapes Diversity







International Obligations

CBD COP 10 – Nagoya, October, 2010

- Key outcomes:
- Strategic Plan for Biodiversity 2011-2020
 - 2050 vision and 2020 mission to take effective and urgent action to halt the loss of biodiversity...
 - 5 Strategic Goals
 - 20 "Aichi Targets"
- Strategy for Resource Mobilisation
- Nagoya Protocol on Access and Benefit-Sharing (ABS)
 - ❖ Georgia committed itself
 - to revise NBSAP in line with new Strategic Plan and Aichi Targets, and
 - adopt new NBSAP as policy document by 2014







Process:

 In May 2011 Biodiversity Protection Service (BPS) of the MoEP initiated the NBSAP revision process, supported by the project "Sustainable Management of Biodiversity" (GIZ) and an Integrated CIM expert, working for the BPS:



- Process on NBSAP updating (<u>road map</u>) has been designed
- NBSAP Coordination Committee (CC) (comprised by 10 person) to support BPS has been created and approved by Ministerial Order
- A secretariat has been established to assist the NBSAP CC in all technical and organizational aspects















11. Biodiversity of the Black Sea of Species and Habitats

2. Protected **Areas**

Thematic Directions

10. Biodiversity of Internal **Waters**

3. Agricultural **Biodiversity**

Assessement

Valuation and

Susutainable Use of Biological resources

In December 2011 NBSAP CC nominated qualified organizations (NGO and scientific organizations - 6 organizations in total) to coordinate 11 thematic directions of the NBSAP

9. Biodiversity of Forests

→BIODIVERSITY

5. Biosafety

8. Management /Governance of **Biodiversity**

> 7. Biodiversity and Climate Change

6. Public and Education

Participation







Process:

- 1. Situation analysis
- 2. Development of Strategy, setting National Targets
- 3. Development of Action Plan







Situation Analysis

- 1st step to analyze the situation according to each thematic component; to identify
 - the status and trends of biodiversity;
 - the drivers of biodiversity loss,
 - relevant strategies, laws, policies and programs
 - lessons learned,
 - gaps and unmet needs
- NBSAP CC nominated various NGO and scientific organizations to elaborate the situation analysis for the each thematic directions
- To receive a comprehensive picture of the actual situation various stakeholders are involved and consulted by the responsible organizations
- From January to April 2012 several thematic workshops were held to adjust and agree on the results of the interactive consultation process







Process:

Situation Analysis

- Situation Analysis for all 11 thematic directions has been carried out as a consultative process and "Situation Analysis Reports" with all reference materials have been prepared
- Two days multi-stakeholder workshop on "Situation Analysis" (including all 11 thematic directions) have been carried out to agree on results

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After Nagoya – CBD Secretariat Capacity Building Workshops for Central and Eastern Europe and Central Asia regions on updating NBSAPs

- 1. Isle Vilm, Germany, April 2011
- 2. Minsk, Belarus, December 2011
- 3. Chisinau, Moldova, September 2012







Process:

Elaboration of Strategy

Setting of the National Targets







Setting SMART targets

The Aichi Biodiversity Targets are grouped under five Strategic Goals, addressing

- underlying causes of biodiversity loss,
- direct pressures,
- •the status of biodiversity components,
- benefits derived from biodiversity, and
- measures to enhance implementation of the strategy

Goals of the Strategic Plan:

- •Goal A underlying causes
- •Goal B direct drivers
- •Goal C habitat conservation
- •Goal D benefits
- •Goal E enabling conditions

This structure can facilitate the construction of storylines, meaningful analyses of indicators and other information to support those storylines and the impacts of responses, or priority actions to be taken, to achieve the Vision of the Strategic Plan. At the same time, it has several implications for the types of indicators that could be selected to track progress







Aichi Targets under Strategic Goals

Goal A – underlying causes

- Awareness of BD values 1
- Integration of BD values 2
- •Incentives 3
- Use of nat. resources 4

Goal B – direct drivers

- Loss of habitats 5
- Sustainable fisheries 6
- Areas under sustainable management 7
- Pollution 8
- •IAS 9
- Vulnerable ecosystems 10

Goal C - habitat conservation

- Protected areas 11
- Preventing extinctions 12
- Agricultural BD 13

Goal D - benefits

- •Essential eco. services 14
- •BD & carbon stocks 15
- •ABS implementation 16

Goal E – enabling conditions

- •NBSAPs 17
- •Traditional knowledge 18
- Biodiversity knowledge 19
- Resource mobilization 20







Process:

Elaboration of Strategy Setting of the National Targets

While adapting the global Aichi goals and targets to the national level we followed CBD recommendations:

- Each of these five goals are relevant to all Parties, and should be ensured that National Targets are devised for each of them
- National Targets should be set with a view to contributing to a cumulative effort to fulfil the mission, and to reach the goals of the Strategic Plan 2011-2020
- Setting of SMART national targets in line with the Aichi Biodiversity targets, but taking into account national needs and priorities







Process:

Elaboration of Strategy National Target Setting

A <u>set</u> of National Targets have the following characteristics:

- Address all three levels of biodiversity (ecosystem, species, genetic)
- Be (SMART):
 - Specific
 - Measurable
 - Ambitious go beyond business as usual (BAU); not limited to existing resources; but
 - Realistic
 - Time bound

Developed using a participatory, multi-stakeholder process;

Limited in number.

Not identical to the Aichi Targets, but "mapable".







Process:

Elaboration of Strategy National Target Setting

- Since September 2012 to April 2013 several workshops had been held regarding the format of the strategies and action plans to be submitted by the organizations responsible for the elaboration of the thematic components Requested format for submission of the reports
- Each thematic component have been ordered in line with the Strategic Plan for Biodiversity (2011-2020) and the "Aichi Targets":

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Process:

Elaboration of Strategy National Target Setting

- 5 strategic goal of the strategic plan for biodiversity (2011-2020) was common for each thematic component;
- National Targets elaborated in line with "Aichi" Targets for every thematic component were arranged under 5 Strategic Goal (A, B, C, D, E – same as Global Strategic Plan 2011-2020)
- For each National Target Objectives, Indicators and Critical Assumptions was defined
- For each thematic component were set of targets 5 to 15

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Process:

Elaboration of Strategy National Target Setting

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 To agree on the National Targets, the Objectives, the Indicators and the Action Plans up to 45 stakeholder workshops were implemented from September 2012 to March 2013.

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NK1 magaliTissaxiT ginda romelime mimarTuleba cavdoT?







Process:

In the process were involved 2 international consultants:

- 1. to edit all 11 situation analysis into one "Situation Analysis Report" as a basis for the NBSAP and to develop a short "Synthesis Report"
- 2. to transform all 11 thematic draft Strategies and Action Plans into one unified NBSAP document in line with the Strategic Plan for Biodiversity 2011-2020 and the Aichi Biodiversity Targets

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Process:

Restructuring of the thematic Component

#	Initial Thematic Components	Rearranged Thematic Components of the NBSAP II
1	Conservation of Species and Habitats	Species and Habitats (1 + 2,4,7,8,9)
2	Protected Areas	Protected Areas (2 + 8)
3	Agricultural Biodiversity	Agricultural Biodiversity and Natural Grasslands (3 + 7,8)
4	Assessment/Valuation and Sustainable Use of Biological Resources	Distributed between different thematic components
5	Biosafety	Merged with Cross-cutting issues and Governance
6	Public Participation and Education	Communication, Education and Public Participation (6)
7	Biodiversity and Climate Change	Distributed between different thematic components
8	Management / Governance of Biodiversity	Cross-cutting Issues and Governance (8 + 5)
9	Biodiversity of Forests	Forest Ecosystems (9 + 4,7,8)
10	Biodiversity of Internal Waters	Inland Ecosystems (10 + 7)
11	Biodiversity of the Black Sea	The Black Sea (11 + 2,7,8)
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Process:

National Target Setting Preparation draft NBSAP

- More then 100 National targets for all 11 thematic directions have been transformed into 20 National Targets in line with Aichi Targets
- Some issues that deserved more attention have been added (but still needs refining):
 - TEEB in Georgia
 - Resource mobilization strategy
 - NBSAP communication strategy
 - Roles and responsibilities of institutions at different scales in NBSAP implementation
 - Establishment of a coordination structure to review implementation

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Strategic Goals and National Targets

Strategic Goal A: Address the underlying causes of biodiversity loss by mainstreaming biodiversity across government and society

National Targets	Relevant Aichi Target
A1. By 2020, at least 50% of the population of Georgia is informed on biodiversity as well as threats to biodiversity and the steps to be taken for their resolution, and is aware of its social and economic values and services	1
A2. By 2020, significantly more people, especially local population, is interested and effectively takes part in decision making processes that contribute to conservation and sustainable use of biodiversity and to biosafety	
A3. By 2020, at the latest, legislation, national accounting, rural development, agricultural, poverty reduction and other relevant sectoral and cross-sectoral strategies and planning processes take into consideration conservation, sustainable use and the economic values of biodiversity and ecosystems; positive economic incentives help conserve biodiversity and incentives harmful to biodiversity have been eliminated, phased out or reformed	2, 3

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Strategic Goals and National Targets

Target - A3. By 2020, at the latest, legislation, national accounting, rural development, agricultural, poverty reduction and other relevant sectoral and cross-sectoral strategies and planning processes take into consideration conservation, sustainable use and the economic values of biodiversity and ecosystems; positive economic incentives help conserve biodiversity and incentives harmful to biodiversity have been eliminated, phased out or reformed

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A.3 - i1.

Formally approved new policies, laws, regulations and changes in legislation taking biodiversity and ecosystem services into account.

A.3 - i2.

Statistical information on www.geostat.ge and biomonitoring reports/ calculated biodiversity indicators on www.biomonitoring.gov.ge.

A .-i3 .

Legal and Institutional arrangements have been conducted to ensure compliance with the Convention on Biological Diversity and other international commitments.

A .3- i4.

Economic tools of biodiversity conservation and effective mechanisms ensuring incorporation of biodiversity aspects in decision-making have been developed and introduced.

OBJECTIVES

A.3- o1.

Consider and reflect conservation and sustainable use of biodiversity and the values of ecosystems in development programs for such sectors as forestry, energy, agriculture, tourism, mining and infrastructure development: take possible measures to prevent irreversible degradation of ecosystems.

A3- o2.

Estimate economic values of biodiversity and ecosystems and integrate them into national accounting, development agricultural and poverty reduction strategies and planning processes.

A.3-o3.

Elaborate and support implementation of positive economic incentives for conservation of biodiversity and removal of perverse incentives.

A 3- o4.

Improve the institutional and regulatory framework.

A.3- o5.

Make infrastructure development and other activities which could significantly affect biodiversity in a negative way subject to Environmental Impact Assessment (EIA) based on environmental standards; if damage is unavoidable, adequate and fair compensation mechanisms are implemented.

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Strategic Goals and National Targets

Target - A3. By 2020, at the latest, legislation, national accounting, rural development, agricultural, poverty reduction and other relevant sectoral and cross-sectoral strategies and planning processes take into consideration conservation, sustainable use and the economic values of biodiversity and ecosystems; positive economic incentives help conserve biodiversity and incentives harmful to biodiversity have been eliminated, phased out or reformed

OBJECTIVE- A.3-o1. Consider and reflect conservation and sustainable use of biodiversity and the values of ecosystems in development programs for such sectors as forestry, energy, agriculture, tourism, mining and infrastructure development: take apossible measures to prevent irreversible degradation of ecosystems					
2015	Ministry of Economy and Sustainable Development				
2014-2015	Ministry of Environment Protection/internati onal organizations/NGOs	organizations			
2016	27				
	2015 2014-2015	2015 Ministry of Economy and Sustainable Development 2014-2015 Ministry of Environment Protection/internati onal organizations/NGOs			







Strategic Goals and National Targets

Target - A3. By 2020, at the latest, legislation, national accounting, rural development, agricultural, poverty reduction and other relevant sectoral and cross-sectoral strategies and planning processes take into consideration conservation, sustainable use and the economic values of biodiversity and ecosystems; positive economic incentives help conserve biodiversity and incentives harmful to biodiversity have been eliminated, phased out or reformed

OBJECTIVE- A.3–02 .Estimate economic values of biodiversity and ecosystems and integrate them into national accounting, development agricultural and poverty reduction strategies and planning processes.

A.3-o2.1. Assess the economic values of ecosystems and biodiversity at the national level by means of The Economics of Ecosystems and Biodiversity (TEEB) approach.	2015	200 000	Ministry of Envrionment Protection, Environmental NGOs, scientific-research institutions	International donors
A.3- o2.2. Develop a communication strategy and inform decision-makers as well as local communities about economic values of biodiversity and ecosystems; develop work program for reflecting biodiversity and ecosystem values in national accounts and statistics.	2016	100 000	Ministry of Envrionment Protection, Environmental NGOs	International donors
A.3 –o 2.3. Integrate the outcomes of the TEEB study into the development, agriculture and, poverty reduction and other relevant strategies.	2018	10 000	Ministry of Envrionment Protection, Relevant state authorities	State budget

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Georgia's 2nd NBSAP Strategic Goals and National Targets

Target - A3. By 2020, at the latest, legislation, national accounting, rural development, agricultural, poverty reduction and other relevant sectoral and cross-sectoral strategies and planning processes take into consideration conservation, sustainable use and the economic values of biodiversity and ecosystems; positive economic incentives help conserve biodiversity and incentives harmful to biodiversity have been eliminated, phased out or reformed

OBJECIVE - A.3-o3. Elaborate and support implementation of positive economic incentives for conservation of biodiversity and removal of perverse					
incentives.					
A.3- o3.1. Elaborate and promote the implementation of biodiversity-friendly	2013-2015	50 000	Ministry of Envrionment	State budget,	
economic and fiscal policy incentives such as small grants, subsidies, favorable-			Protection, Ministry of	international	
term loans and taxation, environmental insurance and eco-labeling, introduce			Finance, private	donors, private	
relevant policy and legislative changes.			companies, farmers,	companies, state	
			NGOs, local communities	and private banks	
A.3- o3.2. Review the legal regime on licences and permits for utilizing natural resources with a view to minimize harmful and maximize positive incentives for biodiversity.	2015	30,000	Ministry of Energy and Natural resources, NGOs	State budget, international donors	
A.3 –o3.3. Increase the capacity of the governmental units responsible for the issuing and monitoring of licences and permits.	2015-2020	50 000	Ministry of Energy and Natural Resources	State budget/Donors	
A.3-o3.4. Develop and approve guidelines for monitoring of licences involving use of biological resources (e.g. forestry operations, hunting, fishing).	2015	100 000	Ministry of Energy and Natural Resources	State budget/Donors	
A.3 $-$ o3.5. Elaborate and adopt system of financial promotion (using mechanisms as tax incentives, subsidies of other) to promote the private sector investment in degraded/polluted zones for restoration of the soils and pastures using various agro-ecological methods and sustainable grazing management practices.	2018-2020	10 000	Ministry of Agriculture, regional and municipal administrations,	National budget, international donors	
A.3 – o3.6. Elaborate and adopt system of financial promotion (using mechanisms	2018-2020	10 000	Ministry of Agriculture,	National budget,	
as tax incentives, subsidies of other) for on farm conservation of local landraces of			regional and municipal	international	
plants and animals.			administrations _{11.2013}	deners29	







Georgia's 2nd NBSAP Strategic Goals and National Targets

Target - A3. By 2020, at the latest, legislation, national accounting, rural development, agricultural, poverty reduction and other relevant sectoral and cross-sectoral strategies and planning processes take into consideration conservation, sustainable use and the economic values of biodiversity and ecosystems; positive economic incentives help conserve biodiversity and incentives harmful to biodiversity have been eliminated, phased out or reformed

A.3-o4. Generally improve the institutional and regulatory framework at national and local level.					
A.3- o4.1. Review of the regulatory framework in the biodiversity sphere to	2014-	The Ministry of Environment	State budget/		
ensure integration of Georgia's international commitments into the national	2015	Protection/NGOs	donor state and		
legislation.			organizations		
A.3 - o4.2. Clarify functions and competences in the sphere of biodiversity	2014	The Ministry of Environment	State budget/		
protection and use at the national, regional and local levels.		Protection/international	donor state and		
		organizations/NGOs	organizations		
A.3 - o4.3. Establish a body responsible for state control/monitoring of	2014-	The Ministry of Environment	State budget/		
biodiversity protection and use.	2017	Protection/international	donor state and		
		organizations/NGOs	organizations		
A.3 - o4.4. Establish an inter-ministerial and inter-stakeholder committee as a	2014	Ministry of Environment			
coordination mechanism between ministries and other stakeholders whose		Protection. Ministry of Fiance			
activities affect biodiversity to oversee implementation of the NBSAP and ensure		and Sustainabe dveleopment			
political buy-in for sectoral and cross-sectoral implementation.					
A.3 - o4.5. Develop policies in collaboration with local governments with a view	2015	Ministry of Environment			
to delegate more powers to local governments and enhance capacity in the		Protection			
field of conservation and sustainable use of biodiversity.					
A.3 – o4.6. Adopt and enforce legislation regulating biosafety issues and	2015	Ministry of Environment			
implementing the Cartagena Protocol on Biosafety and establishment of		Protection			
structural units in every relevant state institution that provide efficient work of a		22.11.2013	Seite 30		







Georgia's 2nd NBSAP Strategic Goals and National Targets

Target - A3. By 2020, at the latest, legislation, national accounting, rural development, agricultural, poverty reduction and other relevant sectoral and cross-sectoral strategies and planning processes take into consideration conservation, sustainable use and the economic values of biodiversity and ecosystems; positive economic incentives help conserve biodiversity and incentives harmful to biodiversity have been eliminated, phased out or reformed

A..3-5. Make infrastructure development and other activities which could significantly affect biodiversity in a negative way subject to Environmental Impact Assessment (EIA) based on environmental standards; if damage is unavoidable, adequate and fair compensation mechanisms are implemented.

and fair compensation meenanisms are implemented.				
A.3- o5.1. Introduce relevant changes in legislation,	2013-2020	50,000	Ministry of Envrionment	Private
harmonized with the Aarhus Convention and other			Protection, Private	investments
multilateral agreements and with EU legislation, in order			companies	
to subject to EIAs any infrastructure development and				
other or activity, which might significantly impact				
biodiversity and ecosystems in a negative way, before_it				
is started.				
A.3-o5.2. Define environmental standards for emissions,	2014-2016	100 000	Ministry of Energy and	State
wastewater discharge, and for water consumption, taking			Natural Resources, Ministry	budget,
biodiversity concerns fully into account.			of Envrionment Protection	donors
A.3 - o5.3. Elaborate fair and adequate compensation	2013	100,000	Ministry of Envrionment	Internation
mechanisms and promote their implementation, where			Protection, State forestry	al donors
damage to natural ecosystems is unavoidable.			authority, scientific-research	
			institutions, NGOs.2013 Sei	te 31







Strategic Goals and National Targets

Strategic Goal B: Reduce the direct pressures on biodiversity and promote sustainable use



National Targets	Relevant Aichi Target
B 1. By 2020, negative factors directly affecting threatened natural habitats are significantly reduced through sustainable management of at least 60% of these habitats	5
B2. By 2020, the impact and pathways of alien invasive species have been evaluated and identified, and measures are in place to manage their pathways and prevent their introduction and establishment	9
B3 . By 2020, pollution, including from excess nutrients, has been brought to levels that are not detrimental to ecosystem function and biodiversity	8
B4. By 2020, agricultural ecosystems and natural grasslands are sustainably managed	7
B5. By 2020, the impact of fisheries on stock, species and ecosystems is within safe ecological limits	6

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Strategic Goals and National Targets

Strategic Goal C: Improve the status of biodiversity by safeguarding ecosystems, species and genetic diversity

National Targets	Relevant Aichi Target
C 1. By 2020, the status of biodiversity has been assessed, through the improvement of scientific and baseline knowledge and establishment of an effective monitoring system	12
C2. By 2020, the status of species biodiversity has been considerably improved through effective conservation measures and sustainable use	12
C3. By 2020, forest biodiversity is safeguarded through sustainable management policies and practices	11
C4 . By 2020, at least 12% of the country's terrestrial and inlad water areas and 2.5 % of marine areas are covered by protected areas. Areas of particular importance for ecosystem services are effectively and equitably managed via ecologically representative system and other effective conservation measures; development of protected areas network and their integration into the wider land-scape and seascapes is ongoing	11, 5, 14, 15, 18
C5. By 2020, the genetic diversity of cultivated plants and farmed and domesticated animals and of wild relatives, including other socio-economically as well as culturally valuable species, is maintained, and strategies have been developed and implemented for minimizing genetic erosion and safeguarding their genetic diversity	13
C6. By 2020, human wildlife conflicts are understood and monitored and adequate mitigation measures are in place including a national hunting system aimed at sustainable use of game species	12
C7. By 2020, the pressure of human activities on the Black Sea and inland waters has decreased; the integrity and functioning of the aquatic ecosystem are preserved	







Strategic Goals and National Targets

Strategic Goal D: Enhance the benefits to all from biodiversity and ecosystem services



Relevant Aichi Target
16
12

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Strategic Goals and National Targets

Strategic Goal D: Enhance implementation through participatory planning, knowledge management and capacity-building



National Targets	Relevant Aichi Target
E 1. By 2020, knowledge has been accumulated on the values, functioning, status and trends of biodiversity, and the consequences of its loss, and a corresponding science base has been established	19
E2. By 2018, effective formal and informal biodiversity education is available at all stages	19
E3. By 2020, the interest and knowledge of local people in biodiversity conservation and use are integrated into the legislation and strategies	18

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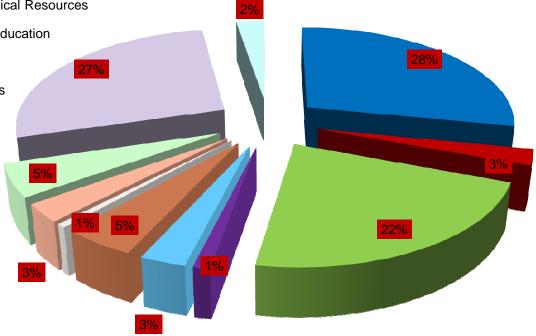




Strategic Goals, National Targets

Ratio of Resources for Implementations NBSAP thematic components

- ■1. Species and Habitats
- ■2. Protected Areas
- ■3. Agrobiodiversity
- ■4. Sustainable Use of Biological Resources
- 5. Biosafety
- ■6. Public Participation and Education
- 7. Climat Change
- ■8. Biodiversity Management
- 9. Forest ecosystems
- 10. Inland Water ecosystems
- ■11. The Black Sea



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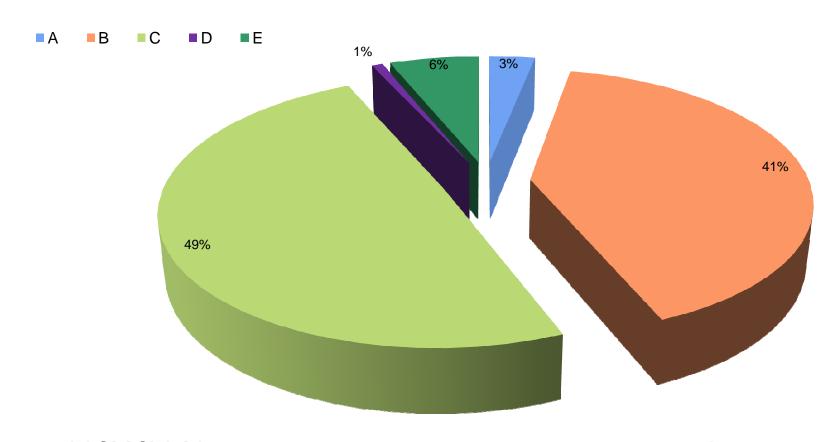






Strategic Goals, National Targets

Ratio of Resources for implementation NBSAP Strategic Goals



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Process:

Today

is almost finished:

- Technical Process
- Refining of NBSAP
- Refining of Indicator System
- Political Consultation Process with main governmental stakeholders







Process:

Next steps

- Elaborate concept how to monitor, evaluate and report about the implementation of NBSAP
- Establishment of a NBSAP Monitoring Working Group
- Political Process with Government
- Public presentation of the revised NBSAP
- Consultation of the NBSAP with donors
- Preparation of Operational Plan

